

Limited Asbestos-Containing Materials Inspection
1514-1520 White, 1521 State, 701-719 Henry
Ann Arbor, Michigan

Ann Arbor Housing Commission

November 11, 2013

ASTI ENVIRONMENTAL



Limited Asbestos-Containing Materials Inspection
1514-1520 White, 1521 State, 701-719 Henry
Ann Arbor, Michigan

November 11, 2013

Prepared For:

Ann Arbor Housing Commission
404 North Ashley
Ann Arbor, Michigan, 48103

Prepared By:

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

ASTI Project 8563

Report Prepared by:



Sean Trowbridge
Asbestos Inspector A40552

Report Reviewed by:



Robert Anderson, P.G.
Director-Site Redevelopment Services



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Executive Summary

ASTI Environmental (ASTI) was retained by Ann Arbor Housing Commission to conduct a limited asbestos-containing materials inspection of apartment units at 1514-1520 White, 1521 State and 701-719 Henry in Ann Arbor, Washtenaw County, Michigan (Property). The information and opinions rendered in this report are for reliance by Ann Arbor Housing Commission. ASTI will not distribute or publish this report without the consent of Ann Arbor Housing Commission, except as required by law or court order. 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.

ASTI's scope of work included sampling of suspect homogeneous asbestos-containing materials (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. No destructive or intrusive sampling was conducted.

Based on the ACM inspection conducted by ASTI on October 24, 2013, the following ACMs were identified on the Property.

SAMPLE ID	MATERIAL	LOCATIONS	RESULTS
26-B	Exterior caulk	Building 701 rear exterior windows	5%
27-B,C	Exterior caulk	Rear speaker panel boards	8%,7%

According to classification guidelines set forth in NESHAP, caulk is classified as Category II non-friable ACM. The caulk, if maintained in its current condition, represents minimal potential for a fiber release. An O&M Program is recommended if the caulk is to be left in place. If the caulk is to be removed, the removal should be completed by a licensed abatement contractor using Class II removal techniques and engineering controls.

Notification for all regulated ACM (RACM) is required by the Michigan Department of Licensing and Regulatory Affairs (LARA) and the Michigan Department of Environmental Quality Air Division, NESHAP on the *Notification of Intent to Renovate/Demolish* for any renovation or demolition activities. The asbestos-containing caulk is not RACM, and notification is not necessary unless the methods used to remove the caulk will render the material friable.

1.0 INTRODUCTION

ASTI Environmental (ASTI) was retained by Ann Arbor Housing Commission to conduct a limited asbestos-containing materials inspection of the apartment units at 1514-1520 White, 1521 State and 701-709 Henry in Ann Arbor, Michigan (Property). The inspection was performed for the benefit of Ann Arbor Housing Commission and ASTI acknowledges that only said party may rely on the contents and conclusions presented in this report.

2.0 LIMITATIONS AND EXCEPTIONS

ASTI's scope of services did not include destructive or intrusive testing of interstitial spaces, such as wall cavities, between building floors/sealed ceiling spaces, confined spaces, and fire doors. ASTI's scope of work included inspection of all units at the Property. Any suspect materials not sampled should be presumed to be ACM. Suspect materials not identified within this report may be encountered in inaccessible cavities, chases, floor cavities, etc. during renovation activities. These materials must be presumed ACM until they can be sampled and analyzed for asbestos content.

3.0 PROPERTY DESCRIPTION

The Property is a residential apartment building consisting of 24 apartment units. The building consists of two-story wood-frame, brick-face buildings with a basement. The City of Ann Arbor Online Assessment and Property Tax Data Search website was accessed to identify the date of construction and additional useful building information, however the property could not be found in the search. Date of construction for the building is unknown. A site location map is provided as Appendix A.

4.0 ASBESTOS-CONTAINING MATERIAL INSPECTION

Sean Trowbridge of ASTI's Property Services Group (Asbestos Inspector No: A40552) conducted the inspection of the subject buildings for suspect ACMs on October 24, 2013. Access was provided by Ann Arbor Housing Commission maintenance staff. Mr. Trowbridge inspected all accessible areas of the building. A copy of Mr. Trowbridge's resume and asbestos accreditation are provided as Appendix B.

4.1 Previous Asbestos-Containing Materials Inspections

ASTI is unaware of any previous ACM inspections.

4.2 Asbestos Inspection Methodology

The ACM inspection was done in accordance with the National Emissions Standards for Hazardous Air Pollutants (NESHAP) requirements and ASTM E2356-10 Standard Practice for Comprehensive Building Asbestos Surveys. NESHAP defines ACM as a material containing greater than one percent asbestos. The survey included a visual inspection of the building, identifying homogeneous areas of suspect surfacing materials, thermal system insulation (TSI), and miscellaneous materials, and the sampling of suspect friable and non-friable materials. ASTI's scope of services did not include destructive or intrusive testing of interstitial spaces, such as wall cavities, between building floors/sealed ceiling spaces, and confined spaces.

4.3 Sample Collection

Samples were collected by physically removing a small piece of suspect material and placing it in a marked plastic bag corresponding to field notes. Samples were collected using wet methods, as appropriate, and the sample collection tool was cleaned prior to each use to avoid cross contamination of samples. The materials that were sampled by ASTI are as follows.

- Drywall and joint compound
- Plaster
- Ceiling patch compound
- Floor tile and associated mastics
- Linoleum
- Stairwell tread glue

- Textured ceiling material
- Sink undercoating
- Base cove and associated adhesive
- Exterior caulks
- Attic Insulation

The suspect ACMs appeared to be in generally good condition during ASTI’s inspection. ASTI collected 98 bulk samples from the types of suspect ACMs that are listed above.

The bulk samples were transmitted under chain-of-custody protocol to APEX Research, Inc. in Whitmore Lake, Michigan for 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 Material Insulation Samples” (EPA-600/M4-82-020, December 1982). Positive samples containing less than 10 percent asbestos were additionally analyzed using the point count method for accurate percentage of asbestos contained in the sampled material.

4.4 Laboratory Analytical Results

The analytical results identified the following materials as ACM.

SAMPLE ID	MATERIAL	LOCATIONS	RESULTS
26-B	Exterior caulk	Building 701 rear exterior window	5%
27-B,C	Exterior caulk	Rear speaker panel board	8%,7%

A copy of the Certificate of Laboratory Analysis is included as Appendix C. Photos of the positive ACM materials are included in Appendix D. A comprehensive list of sampled materials with analytical results is provided as Appendix E

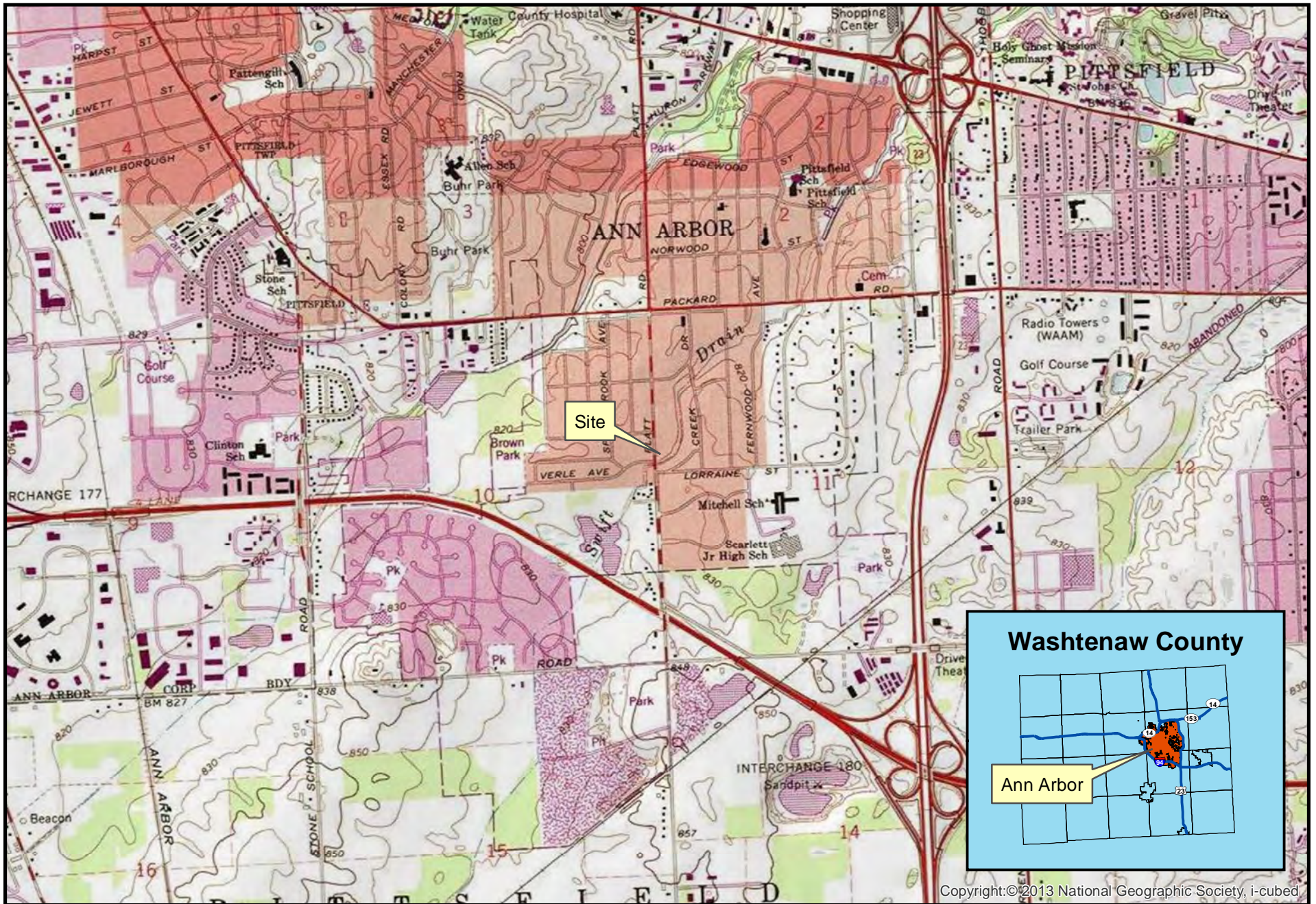
5.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the ACM inspection completed on the Property, the following materials were identified as ACM with the following recommendations.

According to classification guidelines set forth in NESHAP, caulk is classified as Category II non-friable ACM. The caulk, if maintained in its current condition, represents minimal potential for a fiber release. An O&M Program is recommended if the caulk is to be left in place. If the caulk is to be removed, the removal should be completed by a licensed abatement contractor using Class II removal techniques and engineering controls.

Notification for all regulated ACM (RACM) is required by the Michigan Department of Licensing and Regulatory Affairs (LARA) and the Michigan Department of Environmental Quality Air Division, NESHAP on the *Notification of Intent to Renovate/Demolish* for any renovation or demolition activities. The asbestos-containing caulk is not RACMs, and notification is not necessary unless the methods used to remove the caulk will render the materials friable.

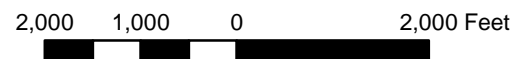
Attachment A
Site Location Map



Copyright:©2013 National Geographic Society, i-cubed

3451 - 3457 Platt Road

Ann Arbor, MI



Created for: Ann Arbor Housing Commission
 Created by: LJD, November 26, 2013, ASTI Project 8563

Site Location Map

Attachment B

Resume and Accreditation of Sean Trowbridge

RESUME

ASTI ENVIRONMENTAL



Sean Alan Trowbridge
Associate I

PROFILE

Certifications

Certified Asbestos Inspector, Michigan #A40552
40-Hour OSHA HAZWOPER Training

Education and Training

Central Michigan University, B.S., Environmental Science, December 2009

Experience History

Environmental Site Assessor, Property Services Group, ASTI Environmental

Professional Background

Mr. Trowbridge has performed numerous Phase I & Phase II Environmental Site Assessments, asbestos inspections, and mold and indoor air quality assessments of residential, commercial and industrial property in Michigan. Work has included vacant land, residential housing including apartment complexes, commercial and industrial buildings, offices, restaurants, storage facilities, and gasoline stations. Mr. Trowbridge has also assisted in numerous other due diligence services including LUST investigations, contaminated soils excavations, Baseline Environmental Assessments, Due Care plans, and various surface water and groundwater monitoring/sampling activities. Additional efforts such as coordinating field activities, communicating with clients and sub-contractors, evaluation of data, and report writing also comprise a significant portion of his time.

Years Experience:

1 --- ASTI
2 --- other agencies

State of Michigan
Department of Licensing and Regulatory Affairs
Michigan Occupational Safety & Health Administration - Asbestos Program



Asbestos Inspector

Sean A. Trowbridge
8485 Perry Road
Grand Blanc, MI 48439



Accreditation Number
A40552

Expiration Date
11/05/2013

DOB: 06/05/1987

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. 102202

Cardholder's Signature

Not valid unless signed.

Your accreditation card is valid for a period of one year, as indicated by the expiration date on the card. Your card must be present on any project site where you are conducting asbestos-related work. If a replacement card is needed, the replacement fee will be \$25.00.

All questions regarding your accreditation should be directed to 517.322.5806.

Please visit our website at: www.michigan.gov/asbestos

40552-102202



Information contained in the bar code is limited to ID# and control#.

If found please return to:
MIOSHA - Asbestos Program
7150 Harris Drive
P.O. Box 30671
Lansing, MI 48909-8171

MIOSHA-CSH-269 (07/09)
Authority: Michigan Public Act 440 of 1988, as amended

44841



Attachment C

Results of Sample Analysis and Chain-of-Custody Document

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)



Project: Ann Arbor Platt

Report To:

Mr. Sean Trowbridge
 ASTI Environmental
 10448 Citation Dr.
 Brighton, MI 48116

ARI Report # 13-48252
 Date Collected: 10/11/13
 Date Received: 10/15/13
 Date Analyzed: 10/21/13
 Date Reported: 10/21/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 48252 - 01 Cust. #: 1-A Material: 12x12" Floor Tile Location: 3451 2nd Floor Bedroom Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 48252 - 01a Cust. #: 1-A Material: Mastic Location: 3451 2nd Floor Bedroom Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 48252 - 02 Cust. #: 1-B Material: 12x12" Floor Tile Location: 3455 2nd Floor Bedroom Appearance: white,nonfibrous,homogenous Layer: 1 of 2	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 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 tested and to insure the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to claim product endorsement by NVLAP or any agency of the US 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

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Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 48252 - 02a Cust. #: 1-B Material: Mastic Location: 3455 2nd Floor Bedroom Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 48252 - 03 Cust. #: 1-C Material: 12x12" Floor Tile Location: 3457 2nd Floor Bedroom Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 48252 - 03a Cust. #: 1-C Material: Mastic Location: 3457 2nd Floor Bedroom Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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 Date Reported: 10/21/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 48252 - 04 Cust. #: 1-D Material: 12x12" Floor Tile Location: 3453 2nd Floor Bedroom Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 48252 - 04a Cust. #: 1-D Material: Mastic Location: 3453 2nd Floor Bedroom Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 48252 - 05 Cust. #: 2-A Material: Sink Undercoating Location: 3451 Kitchen Appearance: black,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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 Date Reported: 10/21/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 48252 - 06 Cust. #: 2-B Material: Sink Undercoating Location: 3455 Kitchen Appearance: black,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 48252 - 07 Cust. #: 2-C Material: Sink Undercoating Location: 3451 Kitchen Appearance: black,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 48252 - 08 Cust. #: 3-A Material: Fiberpaper Location: 3451 Subfloor 1st FL Appearance: yellow,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Fiberglass - 80% Other - 20%

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Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 48252 - 09 Cust. #: 3-B Material: Fiberpaper Location: 3455 Subfloor 1st FL Appearance: black, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 10% Fiberglass - 50% Other - 40%
Lab ID #: 48252 - 10 Cust. #: 3-C Material: Fiberpaper Location: 3453 Subfloor 1st FL Appearance: brown, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 70% Other - 30%
Lab ID #: 48252 - 11 Cust. #: 4-A Material: Drywall Location: 3451 Bedroom Closet Appearance: beige, fibrous, nonhomogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%

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 Date Reported: 10/21/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 48252 - 11a Cust. #: 4-A Material: Joint Compound Location: 3451 Bedroom Closet Appearance: white, fibrous, homogenous Layer: 2 of 2	Asbestos Present: YES Chrysotile - 1.75% POINT COUNT RESULT	Other - 98.25%
Lab ID #: 48252 - 12 Cust. #: 4-B Material: Drywall Location: 3451 Hall Closet Appearance: beige, fibrous, nonhomogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 48252 - 12a Cust. #: 4-B Material: Joint Compound Location: 3451 Hall Closet Appearance: white, fibrous, homogenous Layer: 2 of 2	Asbestos Present: NO Chrysotile - 1.0% POINT COUNT RESULT	Other - 99.0%

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 Date Analyzed: 10/21/13
 Date Reported: 10/21/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 48252 - 13 Cust. #: 4-C Material: Drywall Location: 3455 Bedroom Closet Appearance: beige, fibrous, nonhomogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 48252 - 13a Cust. #: 4-C Material: Joint Compound Location: 3455 Bedroom Closet Appearance: white, fibrous, homogenous Layer: 2 of 2	Asbestos Present: YES Chrysotile - 2.25% POINT COUNT RESULT	Other - 97.75%
Lab ID #: 48252 - 14 Cust. #: 4-D Material: Drywall Location: 3455 Hall Closet Appearance: beige, fibrous, nonhomogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%

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Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 48252 - 14a Cust. #: 4-D Material: Joint Compound Location: 3455 Hall Closet Appearance: white, fibrous, homogenous Layer: 2 of 2	Asbestos Present: YES Chrysotile - 1.25% POINT COUNT RESULT	Other - 98.75%
Lab ID #: 48252 - 15 Cust. #: 4-E Material: Drywall Location: 3457 Bedroom Closet Appearance: beige, fibrous, nonhomogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 48252 - 15a Cust. #: 4-E Material: Joint Compound Location: 3457 Bedroom Closet Appearance: white, fibrous, homogenous Layer: 2 of 2	Asbestos Present: YES Chrysotile - 1.5% POINT COUNT RESULT	Other - 98.5%

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Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 48252 - 16 Cust. #: 4-F Material: Drywall Location: 3457 Hall Closet Appearance: beige, fibrous, nonhomogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 48252 - 16a Cust. #: 4-F Material: Joint Compound Location: 3457 Hall Closet Appearance: white, fibrous, homogenous Layer: 2 of 2	Asbestos Present: YES Chrysotile - 1.5% POINT COUNT RESULT	Other - 98.5%
Lab ID #: 48252 - 17 Cust. #: 4-G Material: Drywall Location: 3453 Bedroom Closet Appearance: beige, fibrous, nonhomogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%

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 Date Analyzed: 10/21/13
 Date Reported: 10/21/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 48252 - 17a Cust. #: 4-G Material: Joint Compound Location: 3453 Bedroom Closet Appearance: beige, fibrous, homogenous Layer: 2 of 2	Asbestos Present: YES Chrysotile - 2.0% POINT COUNT RESULT	Other - 98.0%
Lab ID #: 48252 - 18 Cust. #: 4-H Material: Drywall Location: 3453 Hall Closet Appearance: beige, fibrous, nonhomogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 48252 - 18a Cust. #: 4-H Material: Joint Compound Location: 3453 Hall Closet Appearance: white, fibrous, homogenous Layer: 2 of 2	Asbestos Present: YES Chrysotile - 1.25% POINT COUNT RESULT	Other - 98.75%

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

Robert T. Letarte Jr., Laboratory Director

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NVLAP Lab Code 102118-0



Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: Ann Arbor Platt

Report To:

Mr. Sean Trowbridge
ASTI Environmental
10448 Citation Dr.
Brighton, MI 48116

ARI Report # 13-48252
Date Collected: 10/11/13
Date Received: 10/15/13
Date Analyzed: 10/21/13
Date Reported: 10/21/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 48252 - 19 Cust. #: 5-A Material: Linoleum Location: 3451 Bathroom 2nd FL Appearance: beige, fibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Fiberglass - 5% Other - 95%
Lab ID #: 48252 - 19a Cust. #: 5-A Material: Mastic Location: 3451 Bathroom 2nd FL Appearance: yellow, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 48252 - 20 Cust. #: 5-B Material: Linoleum Location: 3451 Bathroom 2nd FL Appearance: beige, fibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Fiberglass - 5% Other - 95%

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 Date Reported: 10/21/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 48252 - 20a Cust. #: 5-B Material: Mastic Location: 3451 Bathroom 2nd FL Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 48252 - 21 Cust. #: 5-C Material: Linoleum Location: 3457 Bathroom 1st FL Appearance: beige,fibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Fiberglass - 5% Other - 95%
Lab ID #: 48252 - 21a Cust. #: 5-C Material: Mastic Location: 3457 Bathroom 1st FL Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Brighton, MI 48116

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Date Collected: 10/11/13
Date Received: 10/15/13
Date Analyzed: 10/21/13
Date Reported: 10/21/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 48252 - 22 Cust. #: 6-A Material: Base Cove Location: 3451 2nd Floor Bathroom Appearance: brown,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 48252 - 22a Cust. #: 6-A Material: Mastic Location: 3451 2nd Floor Bathroom Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 48252 - 23 Cust. #: 6-B Material: Base Cove Location: 3451 2nd Floor Bathroom Appearance: brown,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Brighton, MI 48116

ARI Report # 13-48252
Date Collected: 10/11/13
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Date Analyzed: 10/21/13
Date Reported: 10/21/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 48252 - 23a Cust. #: 6-B Material: Mastic Location: 3451 2nd Floor Bathroom Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 48252 - 24 Cust. #: 6-C Material: Base Cove Location: 3451 2nd Floor Bathroom Appearance: brown,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 48252 - 24a Cust. #: 6-C Material: Mastic Location: 3451 2nd Floor Bathroom Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Robert T. Letarte Jr., Laboratory Director

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ARI Report # 13-48252
 Date Collected: 10/11/13
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 Date Analyzed: 10/21/13
 Date Reported: 10/21/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 48252 - 25 Cust. #: 7-A Material: Floor Tile Location: 3451 Bedroom 2nd Floor Appearance: pink,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 48252 - 25a Cust. #: 7-A Material: Mastic Location: 3451 Bedroom 2nd Floor Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 48252 - 26 Cust. #: 7-B Material: Floor Tile Location: 3455 Bedroom 2nd Floor Appearance: pink,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Robert T. Letarte Jr., Laboratory Director

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Certificate of Laboratory Analysis

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 Brighton, MI 48116

ARI Report # 13-48252
 Date Collected: 10/11/13
 Date Received: 10/15/13
 Date Analyzed: 10/21/13
 Date Reported: 10/21/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 48252 - 26a Cust. #: 7-B Material: Mastic Location: 3455 Bedroom 2nd Floor Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 48252 - 27 Cust. #: 7-C Material: Floor Tile Location: 3453 Bedroom 2nd Floor Appearance: pink,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 48252 - 27a Cust. #: 7-C Material: Mastic Location: 3453 Bedroom 2nd Floor Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Date Collected: 10/11/13
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Date Analyzed: 10/21/13
Date Reported: 10/21/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 48252 - 28 Cust. #: 8-A Material: Leveling Compound Location: 3451 Bedroom 2nd Floor Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 2.25% POINT COUNT RESULT	Other - 97.75%
Lab ID #: 48252 - 29 Cust. #: 9-A Material: Exterior Caulk Location: 3451 Appearance: white, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 48252 - 30 Cust. #: 9-B Material: Exterior Caulk Location: 3451 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
Lab ID #: 48252 - 31 Cust. #: 9-C Material: Exterior Caulk Location: 3455 Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 48252 - 32 Cust. #: 9-D Material: Exterior Caulk Location: 3455 Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 48252 - 33 Cust. #: 9-E Material: Exterior Caulk Location: 3457 Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Date Collected: 10/11/13
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Date Analyzed: 10/21/13
Date Reported: 10/21/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 48252 - 34 Cust. #: 9-F Material: Exterior Caulk Location: 3457 Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 48252 - 35 Cust. #: 9-G Material: Exterior Caulk Location: 3453 Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 48252 - 36 Cust. #: 9-H Material: Exterior Caulk Location: 3453 Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Brighton, MI 48116

ARI Report # 13-48252
Date Collected: 10/11/13
Date Received: 10/15/13
Date Analyzed: 10/21/13
Date Reported: 10/21/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 48252 - 37 Cust. #: 10-A Material: Sink Undercoating Location: 3457 Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 15% Other - 85%
Lab ID #: 48252 - 38 Cust. #: 10-B Material: Sink Undercoating Location: 3453 Appearance: grey, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 48252 - 39 Cust. #: 10-C Material: Sink Undercoating Location: 3453 Appearance: grey, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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 Date Analyzed: 10/21/13
 Date Reported: 10/21/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 48252 - 40 Cust. #: 11-A Material: Textured Ceiling Location: 3457 Ceiling Appearance: beige,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 48252 - 41 Cust. #: 11-B Material: Textured Ceiling Location: 3457 Ceiling Appearance: beige,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 48252 - 42 Cust. #: 11-C Material: Textured Ceiling Location: 3457 Ceiling Appearance: beige,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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 Date Reported: 10/21/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 48252 - 43 Cust. #: 11-D Material: Textured Ceiling Location: 3457 Ceiling Appearance: beige,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 48252 - 44 Cust. #: 11-E Material: Textured Ceiling Location: 3457 Ceiling Appearance: beige,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 48252 - 45 Cust. #: 12-A Material: Exterior Siding Location: 3453 Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 35% Other - 65%

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

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 Date Analyzed: 10/21/13
 Date Reported: 10/21/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 48252 - 46 Cust. #: 12-B Material: Exterior Siding Location: 3453 Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 35% Other - 65%
Lab ID #: 48252 - 47 Cust. #: 12-C Material: Exterior Siding Location: 3453 Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 35% Other - 65%
Lab ID #: 48252 - 48 Cust. #: 13-A Material: Insulation Location: Appearance: brown, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 95% Other - 5%

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Date Analyzed: 10/21/13
Date Reported: 10/21/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 48252 - 49 Cust. #: 13-B Material: Insulation Location: Appearance: brown, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 95% Other - 5%
Lab ID #: 48252 - 50 Cust. #: 13-C Material: Insulation Location: Appearance: brown, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 95% Other - 5%
Lab ID #: Cust. #: Material: Location: Appearance: Layer: of	Asbestos Present:	

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NVLAP Lab Code 102118-0

48252

APEX Research, Inc.

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

Web Site: <http://apexresearch-inc.com>. Email: Bob.Letarte@apexresearchlab.com



Customer Name: ASTI - Environmental
 Address: 10448 Citation Drive
 City, St., Zip: Brighton MI 48116
 Phone: 810-225-2886 Fax: 810-225-3886

Date of Survey: 10/11/13
 Project: Ann Arbor Pla #
 Project # _____
 Contact Person: strowbridge@asti-env.com
 Email: Sean Trowbridge

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

Turn Around Times: (Circle One)

Rush _____ 24 hour _____
 48 hour _____ 72 hour _____
 Other: 40% Point Count TTP yes / no _____
 (Test Till Positive)

***Terms and conditions on the other side.
Asbestos: Bulk Wipe _____ Point Count _____ PCM _____
Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____
Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____
TEM: Bulk/NOP _____ AHERA _____ EPA Level II _____ Other _____

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
1	1-A	12x12 floor tile	3451	2nd floor bedroom	
2	B		3455	2nd floor bedroom	
3	C		3457	2nd floor bedroom	
4	D		3453	2nd floor bedroom	
5	2-A	sink under coat	3451	kitchen	
6	B		3455	kitchen	
7	C		3451	kitchen	
8	3-A	fiber paper	3451	sub floor 3rd floor	
9	B		3455		
10	C		3453		
RECEIVED:					

Relinquished By: Sean Trowbridge
 Date: 10/11/13

Received By: [Signature]
 Date: _____

Relinquished By: OCT 15 2013
 Date: _____

Relinquished By: _____
 Date: _____

APEX Research, Inc.

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

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Customer Name: ASTI
 Address: _____
 City, St., Zip: _____
 Phone: _____ Fax: _____

Date of Survey: _____
 Project: Ann Arbor - Platt
 Project # _____
 Contact Person: _____
 Email: _____

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

Turn Around Times: (Circle One)

Rush 24 hour
 48 hour 72 hour
 Other: _____ TTP yes / no
 (Test Till Positive)

***Terms and conditions on the other side.

Asbestos: Bulk _____ Wipe _____ Point Count _____ PCM _____
Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____
Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____
TEM: Bulk/NOP _____ AHERA _____ EPA Level II _____ Other _____

48252

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
11	4-A	Drywall; Joint compound / 3451 Bedroom closet			
12	B	1 3451 hall closet			
13	C	1 3455 Bedroom closet			
14	D	1 3455 hall closet			
15	E	1 3457 Bedroom closet			
16	F	1 3457 hall closet			
17	G	1 3453 Bedroom closet			
18	H	1 3453 hall closet			
19	5-A	Linoleum 1 3451 Bathroom 2nd fl.			
20	B	1 3451 Bathroom 2nd fl.			
21	C	1 3457 Bathroom 2nd fl.			

Relinquished By: ST 10/15/13

Date: _____

Revision Date: June/2011

Received By: [Signature]

Date: _____

Relinquished By: _____

Date: _____

RECEIVED

OCT 15 2013

APEX Research, Inc.

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

Web Site: <http://apexresearch-inc.com>. Email: Bob.Letarte@apexresearchlab.com



Customer Name: AST1
 Address: _____
 City, St., Zip: _____
 Phone: _____ Fax: _____

Date of Survey: _____
 Project: Ann Arbor Platt
 Project # _____
 Contact Person: _____
 Email: _____

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

Turn Around Times: (Circle One)

Rush _____ 24 hour _____
 48 hour _____ 72 hour _____
 Other: _____ TTP yes / no
 (Test Till Positive)

***Terms and conditions on the other side.
Asbestos: Bulk _____ Wipe _____ Point Count _____ PCM _____
Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____
Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____
TEM: Bulk/NOP _____ AHERA _____ EPA Level II _____ Other _____

48252

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
22	6-A	Base coat / 3451 2nd floor balcony			
23	B	/			
24	C	/			
25	7-A	Floor tile / 3451 Bedroom 2nd floor			
26	B	/ 3455 Bedroom 2nd floor			
27	C	/ 3453 Bedroom 2nd floor			
28	8-A	Floor tile / 3451 Bedroom 2nd floor			
29	9-A	Exterior caulk / 3451			
30	B	/ 3451			
31	C	/ 3455			
32	D	/ 3455			

Relinquished By: ST 10/15/13
 Date: _____
 Revision Date: June/2011

Received By: [Signature]
 Date: _____

Relinquished By: _____
 Date: _____

RECEIVED
 OCT 15 2013

APEX RESEARCH

APEX Research, Inc.

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

Web Site: <http://apexresearch-inc.com>. Email: Bob.Letarte@apexresearchlab.com



Customer Name: ASTI
 Address: _____
 City, St., Zip: _____
 Phone: _____ Fax: _____

Date of Survey: _____
 Project: Ann Arbor p/pt
 Project # _____
 Contact Person: _____
 Email: _____

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

Turn Around Times: (Circle One)

Rush _____ 24 hour _____
 48 hour _____ 72 hour _____
 Other: _____ TTP yes / no
 (Test Till Positive)

***Terms and conditions on the other side.

Asbestos: Bulk _____ Wipe _____ Point Count _____ PCM _____
Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____
Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____
TEM: Bulk/NOP _____ AHERA _____ EPA Level II _____ Other _____

48252

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
33	9-E	Exterior caulk. / 3457			
34	F	/ 3457			
35	G	/ 3453			
36	H	/ 3453			
37	10-A	sink under coat / 3457			
38	B	/ 3453			
39	C	/ 3453			
40	11A	Textured ceiling / 3457 ceiling			
41	B				
42	C				
43	D				

RECEIVED

Relinquished By: ST 10/15/12

Date: _____

Received By: [Signature]

Date: _____

Relinquished By: _____ Date: OCT 15 2012

Date: _____

Attachment D

Photo Log

PHOTO LOG

3451-3457 Platt Road, Ann Arbor , Michigan



Photo 1. Example of apartment unit drywall with asbestos-containing joint compound.



Photo 2. Asbestos-containing floor tile observed in apartment unit 3451 second floor bedroom sub-floor layers. Observed by removing floor vent. Similar floor tile was not observed in any of the other units.

Photo 3.

Attachment E
Asbestos Sample Table

Asbestos Sample Results
 3451-3457 Platt Road
 ASTI Project No. 8563

ASTI Sample Number	Material	Description	Sample Location	Condition of Material	Friability	Asbestos Result	Quantity of Asbestsos
1-A	12" x 12" Floor tile	Beige with blue specks	3451 2nd floor bedroom	Good	NF	NAD	NQ
1-B	12" x 12" Floor tile	Beige with blue specks	3455 2nd floor bedroom	Good	NF	NAD	NQ
1-C	12" x 12" Floor tile	Beige with blue specks	3457 2nd floor bedroom	Good	NF	NAD	NQ
1-D	12" x 12" Floor tile	Beige with blue specks	3453 2nd floor bedroom	Good	NF	NAD	NQ
2-A	Sink undercoating	Black	3451 kitchen	Good	NF	NAD	NQ
2-B	Sink undercoating	Black	3455 kitchen	Good	NF	NAD	NQ
2-C	Sink undercoating	Black	3451 kitchen	Good	NF	NAD	NQ
3-A	Fiber material	Black	3451 subfloor 1st floor	Good	F	NAD	NQ
3-B	Fiber material	Black	3455 subfloor 1st floor	Good	F	NAD	NQ
3-C	Fiber material	Black	3453 subfloor 1st floor	Good	F	NAD	NQ
4-A	Drywall & Joint compound	White	3451 bedroom closet	Good	NF	Drywall 0% Joint compound 1.75%	NQ
4-B	Drywall & Joint compound	White	3451 hall closet	Good	NF	Drywall 0% Joint compound 1.0%	NQ
4-C	Drywall & Joint compound	White	3455 bedroom closet	Good	NF	Drywall 0% Joint compound 2.25%	NQ
4-D	Drywall & Joint compound	White	3455 hall closet	Good	NF	Drywall 0% Joint compound 1.25%	NQ

F = Friable

NF = Non Friable

* Observed in several locations. Discussed in report text.

L.F. = Linear Feet

S.F. = Sqaure Feet

- = Included in above total

Shaded = Positive for asbestos

NAD = No Asbestos Detected

Asbestos Sample Results
 3451-3457 Platt Road
 ASTI Project No. 8563

ASTI Sample Number	Material	Description	Sample Location	Condition of Material	Friability	Asbestos Result	Quantity of Asbestsos
4-E	Drywall & Joint compound	White	3457 bedroom closet	Good	NF	Drywall 0% Joint compound 1.5%	NQ
4-F	Drywall & Joint compound	White	3457 hall closet	Good	NF	Drywall 0% Joint compound 1.5%	NQ
4-G	Drywall & Joint compound	White	3453 bedroom closet	Good	NF	Drywall 0% Joint compound 2.0%	NQ
4-H	Drywall & Joint compound	White	3453 hall closet	Good	NF	Drywall 0% Joint compound 1.25%	NQ
5-A	Linoleum	Brick pattern	3451 bathroom 2nd floor	Good	NF	NAD	NQ
5-B	Linoleum	Brick pattern	3451 bathroom 2nd floor	Good	NF	NAD	NQ
5-C	Linoleum	Brick pattern	3457 bathroom 1st floor	Good	NF	NAD	NQ
6-A	Basecove	Black	3451 2nd floor bathroom	Good	NF	NAD	NQ
6-B	Basecove	Black	3452 2nd floor bathroom	Good	NF	NAD	NQ
6-C	Basecove	Black	3453 2nd floor bathroom	Good	NF	NAD	NQ
7-A	Floor tile	Red	3451 bedroom 2nd floor	Good	NF	NAD	NQ
7-B	Floor tile	Red	3455 bedroom 2nd floor	Good	NF	NAD	NQ

F = Friable

NF = Non Friable

* Observed in several locations. Discussed in report text.

L.F. = Linear Feet

S.F. = Sqaure Feet

- = Included in above total

Shaded = Positive for asbestos

NAD = No Asbestos Detected

Asbestos Sample Results
 3451-3457 Platt Road
 ASTI Project No. 8563

ASTI Sample Number	Material	Description	Sample Location	Condition of Material	Friability	Asbestos Result	Quantity of Asbestsos
7-C	Floor tile	Red	3453 bedroom 2nd floor	Good	NF	NAD	NQ
8-A	Floor tile	White	3451 bedroom 2nd floor	Good	NF	2.25%	NQ
9-A	Exterior caulk	Grey	3451 exterior	Good	NF	NAD	NQ
9-B	Exterior caulk	Grey	3451 exterior	Good	NF	NAD	NQ
9-C	Exterior caulk	Grey	3455 exterior	Good	NF	NAD	NQ
9-D	Exterior caulk	Grey	3455 exterior	Good	NF	NAD	NQ
9-E	Exterior caulk	Grey	3457 exterior	Good	NF	NAD	NQ
9-F	Exterior caulk	Grey	3457 exterior	Good	NF	NAD	NQ
9-G	Exterior caulk	Grey	3453 exterior	Good	NF	NAD	NQ
9-H	Exterior caulk	Grey	3453 exterior	Good	NF	NAD	NQ
10-A	Sink undercoating	White	3457 kitchen sink	Good	NF	NAD	NQ
10-B	Sink undercoating	White	3453 kitchen sink	Good	NF	NAD	NQ
10-C	Sink undercoating	White	3453 kitchen sink	Good	NF	NAD	NQ
11-A	Textured ceiling	White	3457 ceiling	Good	NF	NAD	NQ
11-B	Textured ceiling	White	3458 ceiling	Good	NF	NAD	NQ
11-C	Textured ceiling	White	3459 ceiling	Good	NF	NAD	NQ
11-D	Textured ceiling	White	3460 ceiling	Good	NF	NAD	NQ
11-E	Textured ceiling	White	3461 ceiling	Good	NF	NAD	NQ
12-A	Exterior siding	Grey	3453 exterior	Good	NF	NAD	NQ
12-B	Exterior siding	Grey	3454 exterior	Good	NF	NAD	NQ
12-C	Exterior siding	Grey	3455 exterior	Good	NF	NAD	NQ
13-A	Insulation	Grey	3457 attic	Good	F	NAD	NQ
13-B	Insulation	Grey	3453 attic	Good	F	NAD	NQ
13-C	Insulation	Grey	3454 attic	Good	F	NAD	NQ

F = Friable

NF = Non Friable

* Observed in several locations. Discussed in report text.

L.F. = Linear Feet

S.F. = Sqaure Feet

- = Included in above total

Shaded = Positive for asbestos

NAD = No Asbestos Detected

Attachment F
Notification of Intent to Renovate/Demolish

NOTIFICATION OF INTENT TO RENOVATE/DEMOLISH



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
(MDEQ) AIR QUALITY DIVISION
NESHAP, 40 CFR Part 61, Subpart M



MICHIGAN DEPARTMENT OF LICENSING AND
REGULATORY AFFAIRS (LARA), ASBESTOS PROGRAM,
P.A. 135 OF 1986, AS AMENDED, Section 220 (1-4) or (8)

DEQ/LARA USE ONLY

Postmark Date ___/___/___ Rec'd Date ___/___/___
 Emergency Date ___/___/___ Valid No. _____
 OK Send Def Ltr. Date of Def Ltr. ___/___/___
 FOLLOW UP ___/___/___ Spoke w/ _____
 Comments: _____

 Notification No. _____ Trans No. _____

Calculate LARA Asbestos Project Fee: (1% Project Fee)
 Total Project Cost: _____ x 0.01 = _____
 Type of Contractor: _____ License No.: _____
 Licensing Authority: _____

1. NOTIFICATION:
 Date of Notification: _____
 Date of Revision(s): _____
 Notification Type: Original Revised Canceled Annual
Mark appropriate boxes: (both DEQ and LARA may apply):
DEQ (NESHAP) [260 In. ft./160 sq. ft. or more is threshold]
 Planned Renovation – 10 working days notice
 Emergency Renovation
 Scheduled Demolition – 10 working days notice
 Intentional Burn – 10 working days notice
 Ordered Demolition
LARA (MIOSHA) [Will not accept annual notifications]
 Demo, Reno, Encap. (>10 In. ft./15 sq. ft.) 10 calendar days notice
 Emergency Renovation/Encapsulation

2. PROJECT SCHEDULE:

	START DATE	END DATE
* Renovation	_____	_____
+Asb. Removal	_____	_____
+Demolition:	_____	_____
Encapsulation:	_____	_____

Work Schedule: Please indicate the anticipated days of the week and work hours for the purpose of scheduling a compliance inspection.

	Days of the Week	Work Hours
Asb. Removal:	_____	_____
Demolition:	_____	_____
Encapsulation:	_____	_____

* Includes setup, build enclosure, asbestos removal, demobilizing, etc.
 +Include only those dates you are conducting asbestos removal/demo.
 Check here if this is a multi-phased project, attach a schedule showing the start/end date of each phase.

3. ABATEMENT CONTRACTOR: Internal Project #: _____
 Name: _____
 Mailing Address: _____
 City/State/Zip: _____
 E-mail: _____
 Contact: _____ Phone: _____

4. DEMOLITION CONTRACTOR: Internal Project #: _____
 Name: _____
 Mailing Address: _____
 City/State/Zip: _____
 E-mail: _____
 Contact: _____ Phone: _____

5. FACILITY OWNER: ("Facility" includes Bridges)
 Name: _____
 Mailing Address: _____
 City/State/Zip: _____
 E-mail: _____
 Contact: _____ Phone: _____

6. FACILITY DESCRIPTION:
 Facility Name: _____
 Location Address/Description: _____
 _____ If Apt. # of units: _____
 City/Twp. _____ State: _____ Zip Code: _____
 County: _____ Nearest Crossroad: _____
 Size: (sq. ft.) _____ No. of Floors: _____ Floor No.: _____
 Age: _____ Present Use: _____ Prior Use: _____
 Specific Location(s) in Facility: _____

7. DISPOSAL SITE:
 Name: _____
 Location Address: _____
 City/State/Zip: _____

8. WASTE TRANSPORTER 1:	WASTE TRANSPORTER 2:
Name: _____	_____
Address: _____	_____
City/State/Zip: _____	_____
Phone: _____	_____

9. ORDERED DEMOLITIONS: (See NESHAP regulations for definition of "Ordered Demolition.") A copy of the official Order must accompany this notification.
 Gov't Agency Ordering Demo: _____
 Name/Title of Person Signing Order: _____

 Date of Order: _____ Date Ordered to Begin: _____

10. IS ASBESTOS PRESENT? Yes No To be removed prior to demolition

Estimate the amount of asbestos: Include RACM (Regulated Asbestos Containing Material) to be removed, encapsulated, etc. Also include the amount and type (floor tile, roofing, etc.) of non-friable Category I and/or Category II ACM that will not be removed prior to demolition. (NOTE: In a demolition, cementitious ACM cannot remain in a structure, as it is likely to become regulated in the demolition/handling process. It must be removed prior to demolition.)

RACM to be Removed	RACM to be Encapsulated	Non-friable ACM <u>not</u> removed prior to demo.	
		Category I	Category II

Units of Measure
 Ln. Ft. Ln. M.
 Sq. Ft. Sq. M.
 Cu. Ft.* Cu.M.*

*Volume (cubic ft./meters) should be used only if unable to measure by linear/square measure (example: asbestos has fallen off of surface).

NOTIFICATION OF INTENT TO RENOVATE/DEMOLISH (continued)

11. PROJECT DESCRIPTION: Complete A) for Renovation (asbestos removal/encapsulation) and/or B) for Demolition:

A) RENOVATION: Mark all surfaces/types of RACM to be removed:

- Piping Fittings Boiler(s) Tanks(s)
 Beam(s) Duct(s) Tunnel(s) Ceiling Tile(s)
 Mag Block Other (describe) _____

Encapsulation (for LARA): Mark surfaces/types to be encapsulated:

- Piping Fittings Boiler(s) Tank(s)
 Beam(s) Duct(s) Tunnel(s) Ceiling Tile(s)
 Other (describe) _____

Method of removal: Describe how the asbestos will be removed from the surface (example: glove bag, scrape with hand tools, cut in sections and carefully lower, etc.): _____

B) DEMOLITION: Describe the method of demolition of facility, bridge, etc., and indicate if complete or partial. If partial, describe which part of facility bridge, etc., will be demolished: _____

12. ENGINEERING CONTROLS: Describe work practices and engineering controls used to prevent visible emissions before, during, and after removal, and until proper disposal: _____

13. UNEXPECTED ASBESTOS: Describe the steps you intend to follow in the event that unexpected RACM is found or previously non-friable asbestos becomes friable (crumbled, pulverized, reduced to powder, etc.) and therefore regulated: _____

14. PROCEDURE(S) USED TO DETECT THE PRESENCE OF ASBESTOS: A) Indicate how you determined whether or not asbestos is in the facility. If analytical sampling was used, describe method of analysis. (The determination of the presence or absence of asbestos must be made prior to submitting a renovation/demolition notification.): _____

B) Name, address, and phone number of company performing asbestos survey: _____

C) Name, accreditation number of inspector, and date of inspection: _____

15. EMERGENCY RENOVATIONS: Date/time of emergency: _____ Describe the sudden, unexpected event: _____

Explain how the event caused unsafe conditions, and/or would cause equipment damage and/or an unreasonable financial burden: _____

16. I certify that an individual trained in the provisions of 40 CFR Part 61, Subpart M, will be on-site during the renovation and during demolition involving RACM above the threshold and/or during an ordered demolition. Evidence that this person has completed the required training will be available for inspection at the renovation or demolition site.

Signature of Owner or Abatement Contractor Date

Signature of Owner or Demolition Contractor Date

17. Signature Requirements for Projects with Negative Pressure Enclosures: (required by LARA)
 Per Section 221(1)(2) of P.A. 135 of 1986, as amended, clearance air monitoring is required for any asbestos abatement project involving 10 linear feet/15 square feet or more of friable material which is performed within a negative pressure enclosure. *(The building owner or lessee) have been advised by the contractor of my responsibility under Act 135 to have clearance air monitoring performed on this project.*

Signature of Building Owner or Lessee Date

Signature of Asbestos Abatement Contractor Representative Date

NOTE: It is not mandatory that a signed copy be sent to LARA unless requested. For affected projects, this section of the notification form must be completed, signed, and made part of your records before the project begins.

18. I certify that the above information is correct:

Printed Name of Owner/Operator

Date

Signature of Owner/Operator

Date

MAILING ADDRESSES/PHONE NUMBERS: (See Item 1 to determine which agency requirements/regulations are applicable to your project.)

For Public Act 135 of 1986, as amended, Section 220 (1-4) or (8), mail to address below. For more info visit: <http://www.michigan.gov/asbestos>

MIOSHA Asbestos Program
 LARA, CSHD
 P.O. Box 30671
 Lansing, MI 48909-8171

517.322.1320 (office), 517.322.1713 (fax)

For NESHAP Demolitions/Renovations, 40 CFR, Part 61, Subpart M, mail notifications to the appropriate address below (by county of subject facility): For more info visit <http://www.michigan.gov/deq> click on Air, then Asbestos NESHAP Program.

All Counties (except Wayne County)

NESHAP Asbestos Program
 DEQ, AQD
 P.O. Box 30260
 Lansing, MI 48909-7760

517.241.7463 (Office)
 517.373.7064 (Revision Line)

Wayne County Only

NESHAP Asbestos Program
 Detroit Field Office, DEQ, AQD
 Cadillac Place, Suite 2-300
 3058 West Grand Boulevard
 Detroit, MI 48202

313.456.4686

ASTI ENVIRONMENTAL
8,000 ENVIRONMENTAL INVESTIGATION, REMEDIATION, COMPLIANCE AND
RESTORATION PROJECTS THROUGHOUT THE GREAT LAKES SINCE 1985.

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- **BROWNFIELD/GREYFIELD REDEVELOPMENT STRATEGIES**
- **DEVELOPMENT INCENTIVES**
- **ECOLOGICAL ASSESSMENTS AND RESTORATION**
- **ENVIRONMENTAL ASSESSMENTS AND IMPACT STATEMENTS**
- **ENVIRONMENTAL OPPORTUNITIES ASSESSMENT**
- **GIS MAPPING**
- **HAZARD MITIGATION PLANNING**
- **MINING AND RECLAMATION ASSISTANCE**
- **OPERATION AND MAINTENANCE**
- **PHASE I ESA AND ENVIRONMENTAL DUE DILIGENCE**
- **REGULATORY COMPLIANCE AND PERMITTING**
- **SOIL AND GROUNDWATER ASSESSMENTS**
- **SOIL AND GROUNDWATER REMEDIATION**
- **STORAGE TANK COMPLIANCE AND CLOSURE**
- **THREATENED AND ENDANGERED SPECIES SURVEYS**
- **WATERSHED AND STORMWATER MANAGEMENT PROGRAMS**
- **WETLAND DELINEATION, PERMITTING, MITIGATION AND BANKING**