

July 31, 2019

Mr. Chris Barnes, P.E.  
City of Canton Engineering Department  
2436 30<sup>th</sup> Street NE  
Canton, Ohio 44705

**Re: Asbestos Survey Reports**

- 115 Fawcett Ct NW Canton Ohio 44708; Parcel No. 206017
- 123 Fawcett Ct NW Canton Ohio 44708; Parcel No. 214870
- 126 Fawcett Ct NW Canton Ohio 44708; Parcel No. 232050

Dear Mr. Barnes:

EnviroScience, Inc. (ES) is pleased to submit the attached Asbestos Survey Reports for the three (3) properties referenced above in the City of Canton, Stark County, Ohio.

ES and its' subconsultant, HZW Environmental LLC, conducted a physical inspection of each of the subject properties to identify the location, estimated quantities and condition of suspect building materials to be disturbed during forthcoming demolition activities. Bulk samples of suspect asbestos containing material (ACM) were collected and submitted to an independent laboratory accredited under the National Institute of Standard and Technology (NIST) National Voluntary Accredited Laboratory Program (NVLAP) for confirmation of percent asbestos content. The samples were analyzed by polarized light microscopy (PLM) using the Environmental Protection Agency (EPA) Method 600-M4-82-020. Where appropriate, point counting analysis was utilized to confirm asbestos content.

Suspect Category I Nonfriable materials (roofing and flooring materials) were not sampled if identified during the survey as being in good condition, and hence, were assumed to contain greater than one (1) percent asbestos. These materials can be removed by the demo contractor (using appropriate means and methods to prevent the materials from becoming friable) and disposed of as Category I Non-Friable material.

Suspect regulated asbestos-containing materials (RACM), such as duct wrap insulation and pipe and fitting insulation; and Category II Nonfriable materials such as transite exterior siding panels were not sampled and hence, were assumed to contain asbestos. These materials will need to be removed prior to demolition by asbestos abatement specialists.

The enclosed reports provide detailed methodologies employed during the surveys and presents findings and conclusions for each of the three structures surveyed. The information contained in these reports should be conveyed to contractors that will be working in the facility to satisfy the hazard communication requirements of the OSHA Asbestos in Construction Standard, 29 CFR 1926.1101.



5070 Stow Road  
Stow, OH 44224

Please contact me at 330-688-0111, [ckessler@enviroscienceinc.com](mailto:ckessler@enviroscienceinc.com) if you have any questions or wish to discuss the findings in greater detail.

Very truly yours,



Charles E. Kessler, AICP, CEP, CAHES  
Sr. Environmental Planner/Project Manager

**Attachments:**

Asbestos Survey Report 115 Fawcett Ct NW Canton Ohio 44708; Parcel No. 206017, HZW, July 2019  
Asbestos Survey Report 123 Fawcett Ct NW Canton Ohio 44708; Parcel No. 214870, HZW, July 2019  
Asbestos Survey Report 126 Fawcett Ct NW Canton Ohio 44708; Parcel No. 232050, HZW, July 2019

# **ASBESTOS SURVEY REPORT**

**City of Canton  
115 Fawcett Court NW, Canton, Ohio 44708**

**Parcel Number: 206017**

**July 2019**



**Prepared for:**

**EnviroScience, Inc.  
5070 Stow Road  
Stow, Ohio 44224  
Phone: (330) 688-0111**

**Prepared by:**



**HZW** Environmental  
Consultants

**1234 Weathervane Ln. ♦ Akron, Ohio 44313  
330-208-2717 ♦ Fax 330-208-2799  
A19035**



**HZW**  
Environmental  
Consultants

July 30, 2019

Mr. Chuck Kessler  
Sr. Environmental Planner/Project Manager  
EnviroScience, Inc.  
5070 Stow Road  
Stow, Ohio 44224  
Phone: (330) 688-0111

**Subject:** *Asbestos Survey Report for the Property Located at 115 Fawcett Ct. NW, Canton, Stark, County, Ohio 44708.*

Dear Mr. Kessler:

HZW Environmental Consultants, LLC (HZW) is pleased to submit this letter report which presents the findings of an asbestos survey conducted at the residence located at 115 Fawcett Ct. NW, Canton, Stark, County, Ohio 44708 (hereinafter referred to as the "Property") on behalf of EnviroScience, Inc. (EnviroScience). The purpose of the asbestos survey was to identify asbestos-containing materials (ACM) located at the Property.

## 1.0 INTRODUCTION

On July 16, 2019 an asbestos survey was performed by Mr. Chris Biro of HZW – State of Ohio Certified Asbestos Hazard Evaluation Specialist (AHES) Certification No. ES36051, and Mr. Chuck Kessler of EnviroScience, Inc. – AHES Certification No. ES34704. This certification is required to be maintained by the inspector(s) in accordance with the Asbestos School Hazard Abatement Reauthorization Act (ASHARA) and Ohio Environmental Protection Agency (OEPA) regulations.

The asbestos survey was conducted in accordance with the National Emissions Standard for Hazardous Air Pollutants (NESHAP). NESHAP regulations require no specific survey protocol be followed; however, Asbestos Hazard Emergency Response Act (AHERA) protocol is recommended. Therefore, the asbestos survey at the Property was conducted in accordance with AHERA protocol, which initially requires that all homogeneous areas of building materials located in a building and suspected of containing asbestos be identified. A homogeneous area is a building material/area that is uniform in texture, color, date of application, use or system and appears identical in every other respect. Once all homogeneous areas are identified, functional spaces in which these homogeneous areas exist are subsequently identified. Within each functional space, the AHERA

category, condition, quantity, and location of each suspect material is determined. Relevant definitions and acronyms used in this report are provided in **Attachment 1**.

## 2.0 FACILITY CONSTRUCTION INFORMATION

The residence is located at 115 Fawcett Ct. NW, Canton, Stark, County, Ohio 44708. The 936 square feet, 1.5-story building with a full basement was built in 1908. The exterior construction of the building consists of vinyl siding, on Styrofoam, on cedar shake, on wood stud. The roof consists of asphalt shingles over wooden beams and joists. Interior finishes within the Property are primarily walls, ceilings and partitions constructed of plaster on lath and drywall with various types of textured surfacing. The flooring consists of carpet, wood laminate and ceramic tile. The basement is constructed of concrete block and brick walls with concrete floors and glass block windows. There are no other structures located on the Property.

## 3.0 SCOPE OF WORK

AHERA classifies friable building materials into the following three (3) categories: surfacing materials, thermal system insulation (TSI) and miscellaneous materials. A friable building material is defined as a material that can be crumbled, pulverized, or reduced to powder by hand pressure. Examples of surfacing materials include fireproofing and acoustical plaster. TSI can include, but is not limited to, the following: pipe lagging, pipe wrap, block insulation, batt insulation and mudded fitting insulation. Miscellaneous materials can include, but are not limited, to the following: ceiling tile, drywall and joint compound, floor tile/sheet and mastic, roofing materials and transite. It should be noted that nonfriable building materials are often included by building inspectors under the miscellaneous materials category.

In determining the condition of the material the following guidelines are used:

General Damage Category	AHERA Damage Category	Criteria
Good	No Damage	No Damage
Fair	Damage	Up to 10% overall damage Up to 25% localized damage
Poor	Significant Damage	Over 10% overall damage Over 25% localized damage

## 4.0 SUSPECT MATERIAL SUMMARY

During HZW's survey of the Property, all accessible homogeneous areas of building materials suspected of containing asbestos were identified and the functional spaces in which they were located were documented. Destructive techniques were used to determine if asbestos-containing materials were located behind walls, above ceiling components, etc. However, if during demolition/renovation activities, suspect materials not included in this report are observed, they must be tested for asbestos content or assumed to be ACM before being disturbed.

The following lists the suspect ACM identified at the Property:

Interior

- Smooth Plaster on Lath Walls
- Smooth Plaster on Lath Ceilings
- Drywall System with Joint Compound
- Matted Textured Surfacing Material on Ceilings
- Heavy Matted Textured Surfacing Material on Ceilings
- Bright White Drywall with Joint Compound
- Gray Drywall System with Joint Compound
- Plaster on Brick

Exterior

- Asphalt Shingles

A total of 32 bulk samples of the suspect ACM were collected at the Property for analysis by polarized light microscopy (PLM) technique with a positive stop at greater than 1% asbestos per homogenous area. The bulk sampling protocol is based on the AHERA category assigned to a specific homogeneous area and the quantity of that homogeneous area identified. **Attachment 2** provides a listing of samples submitted for analysis and a figure/sketch depicting sample locations. The bulk samples collected were submitted to Crisp Analytical, LLC (CA Labs) of Baton Rouge, Louisiana, for analysis of asbestos content by PLM using Environmental Protection Agency (EPA) Method 600/R-93/116.

In addition to the 32 bulk samples secured for analysis, the following lists the suspect ACM identified at the Property that were not tested for asbestos content:

- Asphalt Shingles – Assumed to be ACM

## 5.0 FINDINGS AND CONCLUSIONS

Based on the site inspection and the analytical data from the 32 bulk samples collected, HZW concludes the following regarding the Property:

- No friable ACM was identified via sampling.
- No friable material containing trace amounts of asbestos (1% or less) was identified via sampling.
- No non-friable ACM was identified via sampling.
- No non-friable ACM which may become friable ACM was identified via sampling.
- Materials which were not sampled but assumed to be ACM include asphalt shingles on the exterior roof of the house. This material is in good condition. *Asphalt shingles will need to be disposed of as Category I Non-Friable material.*

HZW's Asbestos Bulk Sampling Information Log for the Property, which includes the bulk sampling locations, material descriptions, quantities, condition and asbestos content is provided in **Attachment 2**. In addition, **Attachment 2** contains a drawing/sketch depicting the bulk sampling locations and the locations of building materials identified as ACM. A copy of the laboratory analytical report from CA Labs for the bulk samples collected at the Property is included as **Attachment 3**.

The quantities of ACM and assumed ACM, as presented on HZW's Asbestos Bulk Sampling Information Form in **Attachment 2** are approximate and represent the majority of accessible building materials that could be quantified during the survey. In addition, demolition of any of the Property's ceilings and walls may reveal additional building materials suspected of containing asbestos. These materials should be sampled prior to demolition to discern its asbestos content or assumed to be ACM.

## **6.0 HAZARD COMMUNICATION**

The information contained in this report should be conveyed to contractors that will be working in the facility to satisfy the hazard communication requirements of the OSHA Asbestos in Construction Standard, 29 CFR 1926.1101.

## **7.0 LIMITATIONS AND DISCLAIMER**

This report describes the locations of ACM identified in the Property located at 115 Fawcett Ct. NW, Canton, Stark, County, Ohio 44708 at the time of assessment. HZW represents that our services are performed within the limits prescribed by applicable regulations and in a manner consistent with the level of care and skill ordinarily exercised by other professional consultants under similar circumstances. HZW shall not be responsible for conditions or consequences arising from relevant information that was concealed or not fully disclosed at the time this investigation was conducted. The information and opinions included in this report are exclusively for the use of EnviroScience, who may rely upon the information and conclusions presented in this report. No other representation is made to the client, expressed or implied, and no warranty or guarantee is included or intended.

Asbestos-containing material quantities stated in this report are approximate. The results and conclusions of the asbestos assessment are based upon information obtained from a limited number of samples. Conditions at other locations may differ from those where sampling was conducted. It is possible that additional ACMs are present behind walls, below floors, above ceilings, or in other areas which were not readily accessible at the time of this work. If encountered during demolition activities, suspect material must be sampled and analyzed for asbestos content or assumed to be ACM. Exploratory demolition was not completed as part of this assessment.

This report is designed to aid the building owner, architect, construction manager, or general contractor in locating ACM. Under no circumstances is the report to be utilized as a project specification document. This asbestos survey report does not contain the components required to serve as an Asbestos Project Design document or as an Asbestos Abatement Work Plan.

EnviroScience, Inc.

Asbestos Survey: 115 Fawcett Ct. NW, Canton, Stark, County, Ohio 44708

July 30, 2019

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HZW's professional services have been performed, findings obtained, as well as conclusions and recommendations prepared in accordance with customary principles and practices in the fields of environmental science and engineering. This statement is in lieu of other statements either expressed or implied. This report does not warrant against future operations or conditions, nor does it warrant against operations or conditions present of a type or at a location not investigated.

HZW appreciates the opportunity you have given us to provide professional consulting services to EnviroScience. Should you have any questions regarding the information presented above, please do not hesitate to contact us.

Report Prepared By:



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Christopher J. Biro

Asbestos Hazard Abatement Specialist

AS31591

Asbestos Hazard Evaluation Specialist

ES36051

Report Reviewed By:



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Kevin Reaman  
Akron Office Manager

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**ATTACHMENT 1**

**DEFINITIONS & ACRONYMS**

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## DEFINITIONS

Definitions are included in this section in order to provide information concerning potential examples of material that contain asbestos, the condition of the materials, and the proper handling, transportation, and disposal of the materials off-site if necessary.

**Asbestos-Containing Material (ACM)** is defined as any material that contains more than one (1) percent asbestos as determined by the test method, specified in the CFR Title 40, Part 763, Subpart E, PLM.

**Friable** is defined as a material that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure, or any previously non-friable material that has become damaged to the extent that when dry it may be crumbled, pulverized, or reduced to powder by hand pressure.

**Category I Non-friable ACM** is defined by the NESHAPs as asbestos-containing packings, gaskets, resilient floor coverings, and asphalt roofing products.

**Category II Non-friable ACM** is any material, excluding Category I non-friable ACM, that when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

**Regulated Asbestos-Containing Material (RACM)** includes: (1) Friable asbestos-containing material, including Category I or II non-friable ACM that has become friable; (2) Category I and Category II non-friable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading; (3) Category I and Category II non-friable ACM that has become or have a high probability of becoming friable by the actions of demolition or renovation.

## ACRONYMS

ACM-	Asbestos-containing material
AHERA-	Asbestos Hazard Emergency Response Act
CAHES-	Certified Asbestos Hazard Evaluation Specialist
CFR-	Code of Federal Regulations
DOT-	Department of Transportation
EPA-	Environmental Protection Agency
HVAC-	Heating, Ventilation and Air Conditioning
NESHAP-	National Emissions Standards for Hazardous Air Pollutants
NVLAP-	National Voluntary Laboratory Accreditation Program
ODH-	Ohio Department of Health
OSHA-	Occupational Safety & Health Administration
PACM-	Presumed asbestos-containing material
PLM-	Polarized light microscopy
RACM-	Regulated Asbestos-Containing Material
VAE-	Visual area estimation

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**ATTACHMENT 2**

**ASBESTOS BULK SAMPLING INFORMATION LOG AND PROPERTY  
FIGURE/SKETCH**

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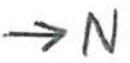
### Asbestos Bulk Sample Information Log

<b>Project Name:</b>	EnviroScience Asbestos Inspections	<b>HWZ Project Number:</b>	A19035
<b>Project Address:</b>	115 Fawcett Ct. NW, Canton, Ohio 44708	<b>Sample Collection Date:</b>	7/16/2019

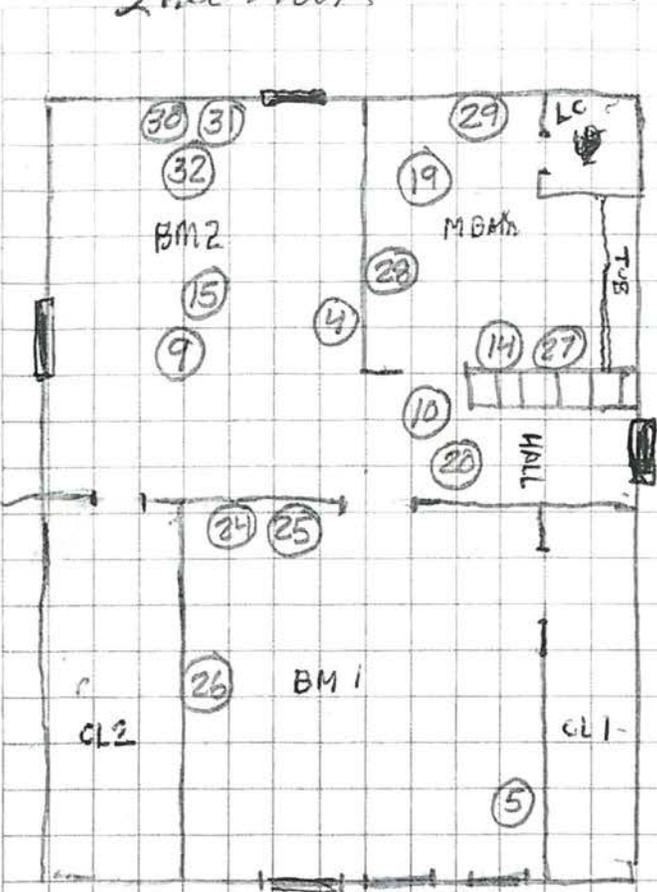
Sample #	Asbestos Content	Material Description	Location	Condition	Friable (Y/N)	Approximate Quantity
1		Smooth Plaster on Lath Walls	Rooms 2, 3, Bedrooms 1, 2 (and closets), Kitchen, Stairs 1, 2	Good	Yes	
2		Smooth Plaster on Lath Walls	Rooms 2, 3, Bedrooms 1, 2 (and closets), Kitchen, Stairs 1, 2	Good	Yes	
3	None	Smooth Plaster on Lath Walls	Rooms 2, 3, Bedrooms 1, 2 (and closets), Kitchen, Stairs 1, 2	Good	Yes	Approx. 2,960 sf
4		Smooth Plaster on Lath Walls	Rooms 2, 3, Bedrooms 1, 2 (and closets), Kitchen, Stairs 1, 2	Good	Yes	
5		Smooth Plaster on Lath Walls	Rooms 2, 3, Bedrooms 1, 2 (and closets), Kitchen, Stairs 1, 2	Good	Yes	
6		Smooth Plaster on Lath Ceilings	Rooms 2, 3, Bedrooms 1, 2 (and closets), Kitchen, Stairs 2	Good	Yes	
7		Smooth Plaster on Lath Ceilings	Rooms 2, 3, Bedrooms 1, 2 (and closets), Kitchen, Stairs 2	Good	Yes	
8	None	Smooth Plaster on Lath Ceilings	Rooms 2, 3, Bedrooms 1, 2 (and closets), Kitchen, Stairs 2	Good	Yes	Approx. 1,872 sf
9		Smooth Plaster on Lath Ceilings	Rooms 2, 3, Bedrooms 1, 2 (and closets), Kitchen, Stairs 2	Good	Yes	
10		Smooth Plaster on Lath Ceilings	Rooms 2, 3, Bedrooms 1, 2 (and closets), Kitchen, Stairs 2	Good	Yes	
11		Drywall System with Joint Compound	Rooms 1, 2, 3, Kitchen, 1/2-Bath, UT 1, Master Bath	Good	Yes	
12		Drywall System with Joint Compound	Rooms 1, 2, 3, Kitchen, 1/2-Bath, UT 1, Master Bath	Good	Yes	
13	None	Drywall System with Joint Compound	Rooms 1, 2, 3, Kitchen, 1/2-Bath, UT 1, Master Bath	Good	Yes	Approx. 4, 460 sf
14		Drywall System with Joint Compound	Rooms 1, 2, 3, Kitchen, 1/2-Bath, UT 1, Master Bath	Good	Yes	
15		Drywall System with Joint Compound	Rooms 1, 2, 3, Kitchen, 1/2-Bath, UT 1, Master Bath	Good	Yes	
16		Matted Textured Surfacing Material on Ceilings	Rooms 1, 2, 3, Kitchen, 1/2-Bath, UT 1, Stairs 1, Master Bath	Good	Yes	
17		Matted Textured Surfacing Material on Ceilings	Rooms 1, 2, 3, Kitchen, 1/2-Bath, UT 1, Stairs 1, Master Bath	Good	Yes	
18	None	Matted Textured Surfacing Material on Ceilings	Rooms 1, 2, 3, Kitchen, 1/2-Bath, UT 1, Stairs 1, Master Bath	Good	Yes	Approx. 1,186sf
19		Matted Textured Surfacing Material on Ceilings	Rooms 1, 2, 3, Kitchen, 1/2-Bath, UT 1, Stairs 1, Master Bath	Good	Yes	
20		Matted Textured Surfacing Material on Ceilings	Rooms 1, 2, 3, Kitchen, 1/2-Bath, UT 1, Stairs 1, Master Bath	Good	Yes	
21		Heavy Matted Textured Surfacing Material on Ceilings	Rooms 1, 2, 3, Kitchen, 1/2-Bath, UT 1, Stairs 1, Master Bath	Good	Yes	
22	None	Heavy Matted Textured Surfacing Material on Ceilings	Kitchen (on plaster)	Good	Yes	Approx. 125 sf
23		Heavy Matted Textured Surfacing Material on Ceilings	Kitchen (on plaster)	Good	Yes	
24		Heavy Matted Textured Surfacing Material on Ceilings	Kitchen (on plaster)	Good	Yes	
25	None	Bright White Drywall System with Joint Compound	Bedroom 1	Good	Yes	Approx. 150 sf
26		Bright White Drywall System with Joint Compound	Bedroom 1	Good	Yes	
27		Gray Drywall System with Joint Compound	Bedroom 1	Good	Yes	
28	None	Gray Drywall System with Joint Compound	Master Bath	Good	Yes	Approx. 225 sf
29		Gray Drywall System with Joint Compound	Master Bath	Good	Yes	
30		Plaster on Brick	Master Bath	Good	Yes	
31	None	Plaster on Brick	Chimney in Room 2	Good	Yes	Approx. 25 sf
32		Plaster on Brick	Chimney in Room 2	Good	Yes	
	Assumed	Asphalt Shingles	Chimney in Room 2	Good	Yes	Approx. 1,740 sf

NOTES.

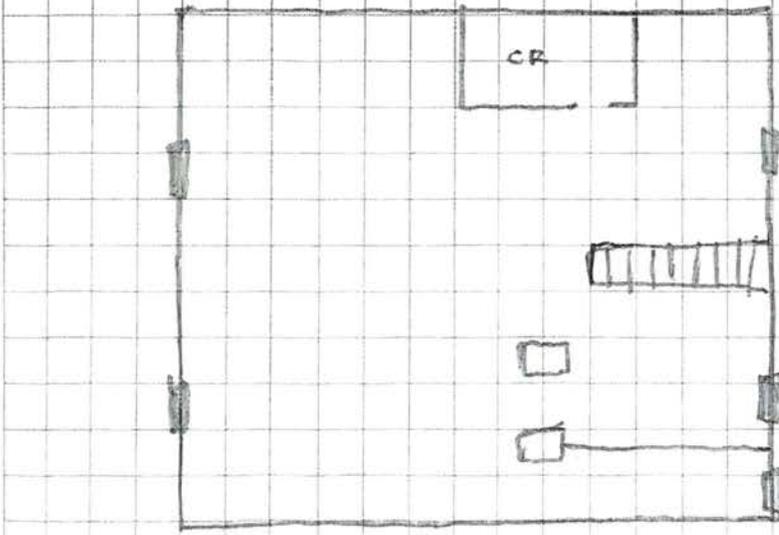
Red text is friable or may become friable RACM and must be abated before demolition of the structure.



2nd Floor



BASEMENT



**No ACM**



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**ATTACHMENT 3**

**LABORATORY ANALYTICAL REPORT FOR BULK SAMPLES COLLECTED**

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**CA Labs**  
Dedicated to  
Quality

**CA Labs, L.L.C.**  
12232 Industriplex, Suite 32  
Baton Rouge, LA 70809  
Phone 225-751-5632  
Fax 225-751-5634



**NVLAP #200772-0**  
**TDSHS #300370**  
**CDPHE #AL-18111**  
**LELAP #03069**

## **Materials Characterization - Bulk Asbestos Analysis**

### **Laboratory Analysis Report - Polarized Light**

#### **HzW Environmental**

1234 Weathervane Lane, Suite 110  
Akron, OH 44313

**Attn:** Craig Kowalski

**Customer Project:** 115 Fawcett Ct NW Canton, Ohio 44708

**Reference #:** CBR19073893

**Date:** 7/17/2019

#### **Analysis and Method**

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved)). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are performed. Calibrated liquid refractive oils are used as liquid mounting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjunction with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

#### **Discussion**

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found by PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

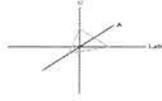
Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

#### **Qualifications**

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one of these disciplines. Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. This report is not covered by the scope of AIHA accreditation. Analysis performed at CA Labs, LLC 12232 Industriplex, Suite 32 Baton Rouge, LA 70809.

**CA Labs**  
 Dedicated to  
 Quality

**CA Labs, L.L.C.**  
 12232 Industriplex, Suite 32  
 Baton Rouge, LA 70809  
 Phone 225-751-5632  
 Fax 225-751-5634



**NVLAP #200772-0**  
**TDSHS #300370**  
**CDPHE #AL-18111**  
**LELAP #03069**

Overview of Project Sample Material Containing Asbestos

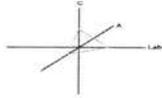
<b>Customer Project:</b> 115 Fawcett Ct NW Canton, Ohio 44708		<b>CA Labs Project #:</b> CBR19073893	
<b>Sample #</b>	<b>Layer #</b>	<b>Analysts Physical Description of Subsample</b>	<b>Asbestos type / calibrated visual estimate percent</b>
			<b>List of Affected Building Material Types</b>

**No Asbestos Detected.**

*Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):*

- |                  |              |                    |                          |
|------------------|--------------|--------------------|--------------------------|
| ca - carbonate   | pe - perlite | fg - fiberglass    | pa - palygorskite (clay) |
| gypsum - gypsum  | qu - quartz  | mw - mineral wool  |                          |
| bi - binder      |              | wo - wollastinite  |                          |
| or - organic     |              | ta - talc          |                          |
| ma - matrix      |              | sy - synthetic     |                          |
| mi - mica        |              | ce - cellulose     |                          |
| ve - vermiculite |              | br - brucite       |                          |
| ot - other       |              | ka - kaolin (clay) |                          |

This report relates to the items tested. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, AIHA LAP, LLC, or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and sale, condition of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.



**Polarized Light Asbestiform Materials Characterization**

**Customer Info:** Attn: Craig Kowalski  
**HzW Environmental**  
1234 Weathervane Lane, Suite 110  
Akron, OH 44313

**Customer Project:**  
115 Fawcett Ct NW  
Canton, Ohio 44708  
**Turnaround Time:** 3 day

**CA Labs Project #:**  
CBR19073893

**Date:** 7/17/2019  
**Samples Received:** 7/17/2019  
**Date Of Sampling:** 7/16/2019  
**Purchase Order #:** A19035

**Phone #** 330-208-2717  
**Fax #** 330-208-2799

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo-geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
1		1	Brown Mastic	Y	None Detected		100% qu, gy, bi
		2	White Finishing Plaster	Y	None Detected		100% qu, ma, ca, gy
		3	Gray Plaster	Y	None Detected	2% sy	98% qu, ma, ca
2		1	Gray Surfaced White Compound	N	None Detected		100% qu, mi, pe, bi, ca
		2	White Finishing Plaster	Y	None Detected		100% qu, ma, ca, gy
		3	Tan Plaster	Y	None Detected	2% ce	98% qu, ma, ca
3		1	Gray Surfaced White Compound	N	None Detected		100% qu, mi, pe, bi, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

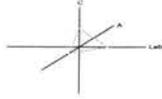
Kyle Hoffpauir  
Analyst

Senior Analyst  
Alicia Stretz

Laboratory Director  
Chris Williams

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3. Actinolite in association with Vermiculite  
4. Layer not analyzed - attached to previous positive layer and contamination is suspected  
5. Not enough sample to analyze

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8. Favorable scenario for water separation on vermiculite for possible analysis by another method  
9. < 1% Result point counted positive  
10. TEM analysis suggested



**Polarized Light Asbestiform Materials Characterization**

**Customer Info:** Attn: Craig Kowalski  
**HzW Environmental**  
1234 Weathervane Lane, Suite 110  
Akron, OH 44313

**Customer Project:**  
115 Fawcett Ct NW  
Canton, Ohio 44708  
**Turnaround Time:** 3 day

**CA Labs Project #:**  
CBR19073893  
**Date:** 7/17/2019  
**Samples Received:** 7/17/2019  
**Date Of Sampling:** 7/16/2019  
**Purchase Order #:** A19035

**Phone #** 330-208-2717  
**Fax #** 330-208-2799

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		2	White Finishing Plaster	Y	None Detected		100% qu, ma, ca, gy
		3	Tan Plaster	Y	None Detected	2% ce	98% qu, ma, ca
4		1	Blue Surfaced White Compound	N	None Detected		100% qu, mi, pe, bi, ca
		2	White Finishing Plaster	Y	None Detected		100% qu, ma, ca, gy
		3	Tan Plaster	Y	None Detected	3% ce	97% qu, ma, ca
5		1	White Finishing Plaster	Y	None Detected		100% qu, ma, ca, gy
		2	Tan Plaster	Y	None Detected	3% ce	97% qu, ma, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

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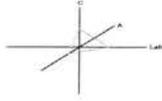
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NVLAP #200772-0  
TDSHS #300370  
CDPHE #AL-18111  
LELAP #03069

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**Purchase Order #:** A19035

Phone # 330-208-2717  
Fax # 330-208-2799

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
6		1	Gray Covering	Y	None Detected	100% ce	
		2	White Finishing Plaster	Y	None Detected		100% qu, ma, ca, gy
		3	Tan Plaster	Y	None Detected	3% ce	97% qu, ma, ca
7		1	White Compound	Y	None Detected		100% qu, mi, pe, ca
		2	White Finishing Plaster	Y	None Detected		100% qu, ma, ca, gy
		3	Tan Plaster	Y	None Detected	3% ce	97% qu, ma, ca
8		1	Tan Surfaced White Finishing Plaster	N	None Detected		100% qu, ma, bi, ca, gy

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

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or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:



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Analyst



Senior Analyst  
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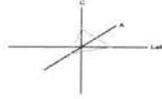
Laboratory Director  
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NVLAP #200772-0  
TDSHS #300370  
CDPHE #AL-18111  
LELAP #03069

**Polarized Light Asbestiform Materials Characterization**

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**HZW Environmental**  
1234 Weathervane Lane, Suite 110  
Akron, OH 44313

**Customer Project:**  
115 Fawcett Ct NW  
Canton, Ohio 44708  
**Turnaround Time:** 3 day

**CA Labs Project #:**  
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**Phone #** 330-208-2717  
**Fax #** 330-208-2799

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- gene- us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		2	Gray Plaster	Y	None Detected	2% sy	98% qu, ma, ca
9		1	White Textured Surfacing	N	None Detected		100% qu, mi, pe, bi, ca
		2	White Finishing Plaster	Y	None Detected		100% qu, ma, ca, gy
		3	Gray Plaster	Y	None Detected	2% sy	98% qu, ma, ca
10		1	White Surfaced White Finishing Plaster	N	None Detected		100% qu, ma, bi, ca, gy
		2	Tan Plaster	Y	None Detected	3% ce	97% qu, ma, ca
11		1	White Compound	Y	None Detected		100% qu, mi, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for  
identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
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Approved Signatories:



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Analyst

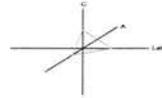


Senior Analyst  
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Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
12		1	Gray Surfaced White Compound on Mesh	N	None Detected	10% fg	90% qu, mi, bi, ca
		2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
13		1	Gray Surfaced White Compound	N	None Detected		100% qu, mi, pe, bi, ca
		2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
14		1	Green Surfaced White Compound	N	None Detected		100% qu, mi, bi, ca
		2	White Compound Beneath Tape	Y	None Detected		100% qu, mi, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)  
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or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

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Analyst

Senior Analyst  
Alicia Stretz

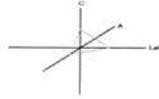
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NVLAP #200772-0  
TDSHS #300370  
CDPHE #AL-18111  
LELAP #03069

**Polarized Light Asbestiform Materials Characterization**

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**Date:** 7/17/2019  
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Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		3	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
15		1	Tan Surfaced White Compound	N	None Detected		100% qu, mi, bi, ca
		2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
16		1	White Textured Surfacing	N	None Detected		100% qu, mi, pe, bi, ca
17		1	White Textured Surfacing	N	None Detected		100% qu, mi, pe, bi, ca
18		1	White Textured Surfacing	N	None Detected		100% qu, mi, pe, bi, ca
19		1	White Textured Surfacing	N	None Detected		100% qu, mi, pe, bi, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

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gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:



Kyle Hoffpauir  
Analyst



Senior Analyst  
Alicia Stretz

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**NVLAP #200772-0**  
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**LELAP #03069**

## Polarized Light Asbestiform Materials Characterization

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Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
20		1	White Textured Surfacing	N	None Detected		100% qu, mi, pe, bi, ca
21		1	Tan Textured Surfacing	N	None Detected		100% qu, mi, pe, bi, ca
22		1	Tan Textured Surfacing	N	None Detected		100% qu, mi, pe, bi, ca
23		1	Tan Textured Surfacing	N	None Detected		100% qu, mi, pe, bi, ca
24		1	Blue Surfaced White Compound	N	None Detected		100% qu, mi, pe, bi, ca
		2	White Compound Beneath Tape	Y	None Detected		100% qu, mi, pe, ca
		3	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

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ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

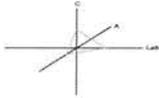
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Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
25		1	Blue Surfaced White Compound	N	None Detected		100% qu, mi, pe, bi, ca
		2	White Compound Beneath Tape	Y	None Detected		100% qu, mi, pe, ca
		3	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
26		1	Blue Surfaced White Compound	N	None Detected		100% qu, mi, pe, bi, ca
		2	White Compound Beneath Tape	Y	None Detected		100% qu, mi, pe, ca
		3	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
27		1	Green Surfaced White Compound	N	None Detected		100% qu, mi, pe, bi, ca

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28		1	Green Surfaced White Compound	N	None Detected		100% qu, mi, pe, bi, ca
		2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
29		1	Green Surfaced White Compound	N	None Detected		100% qu, mi, pe, bi, ca
		2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
30		1	Gray Surfaced White Compound	N	None Detected		100% qu, mi, pe, bi, ca
		2	White Finishing Plaster	Y	None Detected		100% qu, ma, ca, gy

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		3	Gray Plaster	Y	None Detected	2% sy	98% qu, ma, ca
31		1	Gray Surfaced White Compound	N	None Detected		100% qu, mi, pe, bi, ca
		2	White Finishing Plaster	Y	None Detected		100% qu, ma, ca, gy
		3	Gray Plaster	Y	None Detected	2% sy	98% qu, ma, ca
32		1	Gray Surfaced White Compound	N	None Detected		100% qu, mi, pe, bi, ca
		2	White Finishing Plaster	Y	None Detected		100% qu, ma, ca, gy
		3	Gray Plaster	Y	None Detected	2% sy	98% qu, ma, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Kyle Hoffpauir  
Analyst

Senior Analyst  
Alicia Stretz

Laboratory Director  
Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers  
2. Fire Damage no significant fiber damages effecting fibrous percentages  
3. Actinolite in association with Vermiculite  
4. Layer not analyzed - attached to previous positive layer and contamination is suspected  
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc  
7. Contamination suspected from other building materials  
8. Favorable scenario for water separation on vermiculite for possible analysis by another method  
9. < 1% Result point counted positive  
10. TEM analysis suggested

*CBZ9073890*

**Asbestos Bulk Sample Chain of Custody**

Project Name:	EnviroScience Asbestos Inspections	Project Number:	A59035
Project Address:	115 Fawcett Ct. NW, Canton, Ohio 44708	Sample Collection Date:	7/16/2019

Sample #	HA	Material Description	Location	Condition	Frangible (Y/N)	Comment
1		Smooth Plaster on Lath Walls	Rooms 2, 3, Bedrooms 1, 2 (and closets), Kitchen, Stairs 1, 2	Good	Yes	Stop at First Positive
2		Smooth Plaster on Lath Walls	Rooms 2, 3, Bedrooms 1, 2 (and closets), Kitchen, Stairs 1, 2	Good	Yes	Stop at First Positive
3		Smooth Plaster on Lath Walls	Rooms 2, 3, Bedrooms 1, 2 (and closets), Kitchen, Stairs 1, 2	Good	Yes	Stop at First Positive
4		Smooth Plaster on Lath Walls	Rooms 2, 3, Bedrooms 1, 2 (and closets), Kitchen, Stairs 1, 2	Good	Yes	Stop at First Positive
5		Smooth Plaster on Lath Walls	Rooms 2, 3, Bedrooms 1, 2 (and closets), Kitchen, Stairs 1, 2	Good	Yes	Stop at First Positive
6		Smooth Plaster on Lath Ceilings	Rooms 2, 3, Bedrooms 1, 2 (and closets), Kitchen, Stairs 2	Good	Yes	Stop at First Positive
7		Smooth Plaster on Lath Ceilings	Rooms 2, 3, Bedrooms 1, 2 (and closets), Kitchen, Stairs 2	Good	Yes	Stop at First Positive
8		Smooth Plaster on Lath Ceilings	Rooms 2, 3, Bedrooms 1, 2 (and closets), Kitchen, Stairs 2	Good	Yes	Stop at First Positive
9		Smooth Plaster on Lath Ceilings	Rooms 2, 3, Bedrooms 1, 2 (and closets), Kitchen, Stairs 2	Good	Yes	Stop at First Positive
10		Smooth Plaster on Lath Ceilings	Rooms 2, 3, Bedrooms 1, 2 (and closets), Kitchen, Stairs 2	Good	Yes	Stop at First Positive
11		Drywall System with Joint Compound	Rooms 1, 2, 3, Kitchen, 1/2-Bath, UT 1, Master Bath	Good	Yes	Stop at First Positive
12		Drywall System with Joint Compound	Rooms 1, 2, 3, Kitchen, 1/2-Bath, UT 1, Master Bath	Good	Yes	Stop at First Positive
13		Drywall System with Joint Compound	Rooms 1, 2, 3, Kitchen, 1/2-Bath, UT 1, Master Bath	Good	Yes	Stop at First Positive
14		Drywall System with Joint Compound	Rooms 1, 2, 3, Kitchen, 1/2-Bath, UT 1, Master Bath	Good	Yes	Stop at First Positive
15		Drywall System with Joint Compound	Rooms 1, 2, 3, Kitchen, 1/2-Bath, UT 1, Master Bath	Good	Yes	Stop at First Positive
16		Matted Textured Surfacing Material on Ceilings	Rooms 1, 2, 3, Kitchen, 1/2-Bath, UT 1, Stairs 1, Master Bath	Good	Yes	Stop at First Positive
17		Matted Textured Surfacing Material on Ceilings	Rooms 1, 2, 3, Kitchen, 1/2-Bath, UT 1, Stairs 1, Master Bath	Good	Yes	Stop at First Positive
18		Matted Textured Surfacing Material on Ceilings	Rooms 1, 2, 3, Kitchen, 1/2-Bath, UT 1, Stairs 1, Master Bath	Good	Yes	Stop at First Positive
19		Matted Textured Surfacing Material on Ceilings	Rooms 1, 2, 3, Kitchen, 1/2-Bath, UT 1, Stairs 1, Master Bath	Good	Yes	Stop at First Positive
20		Matted Textured Surfacing Material on Ceilings	Rooms 1, 2, 3, Kitchen, 1/2-Bath, UT 1, Stairs 1, Master Bath	Good	Yes	Stop at First Positive
21		Heavy Matted Textured Surfacing Material on Ceilings	Kitchen (on plaster)	Good	Yes	Stop at First Positive
22		Heavy Matted Textured Surfacing Material on Ceilings	Kitchen (on plaster)	Good	Yes	Stop at First Positive
23		Heavy Matted Textured Surfacing Material on Ceilings	Kitchen (on plaster)	Good	Yes	Stop at First Positive
24		Bright White Drywall System with Joint Compound	Bedroom 1	Good	Yes	Stop at First Positive
25		Bright White Drywall System with Joint Compound	Bedroom 1	Good	Yes	Stop at First Positive
26		Bright White Drywall System with Joint Compound	Bedroom 1	Good	Yes	Stop at First Positive
27		Gray Drywall System with Joint Compound	Master Bath	Good	Yes	Stop at First Positive
28		Gray Drywall System with Joint Compound	Master Bath	Good	Yes	Stop at First Positive
29		Gray Drywall System with Joint Compound	Master Bath	Good	Yes	Stop at First Positive
30		Plaster on Brick	Chimney in Room 2	Good	Yes	Stop at First Positive
31		Plaster on Brick	Chimney in Room 2	Good	Yes	Stop at First Positive
32		Plaster on Brick	Chimney in Room 2	Good	Yes	Stop at First Positive
Type of Analysis:	PLM	TEM	Point Count	Turn Around Time:	Three (3) Day Turn	

Fax Results- 330-208-2799 Email Results- kreaman@hzwenv.com; ckowalski@hzwenv.com; cbro@hzwenv.com

Relinquished by: (sign & print name)

*Christy P. Piro*  
*Janifer Wagers*

Date:

*7/19/19*  
*10:28AM*

Received by: