

***ANALYTICAL TESTING & CONSULTING
SERVICES, INC.***

*14625 Doster Road
Plainwell, Michigan 49080
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**ASBESTOS SURVEY
REPORT FOR**

John Beebe
City of Three Rivers
1015 South Lincoln Ave.
Three Rivers, MI 49093

AT

Commercial Demolition
225 S. Main St.
Three Rivers, MI

SURVEY CONDUCTED

11/26/19

BY

**ANALYTICAL TESTING &
CONSULTING SERVICES, INC.**

Lab #: 4961

ANALYTICAL TESTING & CONSULTING SERVICES, INC.

*14625 Doster Road
Plainwell, Michigan 49080
(269) 664-6474
FAX: (269) 664-6406*

12/11/19

John Beebe.
City of Three Rivers
1015 South Lincoln Ave.
Three Rivers, MI 49093

Dear Mr. Beebe,

Enclosed is the asbestos survey report conducted at 225 S. Main Street in Three Rivers, Michigan. Tim Raymond (A53138) of Analytical Testing conducted the inspection on 11/26/19. Analytical Testing was contracted by John Beebe of the City of Three Rivers.

The following report details the locations and amounts of asbestos containing materials. All locations of suspect materials were identified as Presumed Asbestos Containing Materials (PACM) until sampling was conducted.

The scope of this study was to provide as complete and comprehensive of an evaluation as professionally practical. However, inherent constraints of time, observations, findings, results and conclusions are limited accordingly and to those apparent at the time. It should not be construed that actions taken as a result of this study will achieve complete compliance with every regulatory standard nor prevent every possible accident or loss. Nor should it be considered that any recommendations noted are the only possible actions to be taken. Management should assess and analyze each thought in relation to company resources, objectives and activities.

Analytical Testing conducts quantity estimates according to what is visible at the time of testing. Many materials are concealed within walls/ceilings and may be exposed during demolition/renovation activities. If this occurs, contractors should stop work and contact ATCS to conduct sampling of newly discovered materials.

This report should not be used as a restricted source of information for bid preparation or for notification to regulatory agencies. Contractors should verify quantity or amounts prior to bidding and/or submitting 10 days notifications.

During building renovation or demolition operations, material may be uncovered that are different from the material noted during this assessment. Personnel in charge of building demolition activities should be alerted to note materials uncovered during these operations that differ substantially from the material included in this assessment or are covered up under existing materials. At that time, additional sampling and laboratory analyses of suspect ACM must be performed to determine the asbestos content of these materials.

The following is a summary to help understand the asbestos survey data form contained in this report.

Homogeneous Area (HA) Description - This form shows each homogeneous area discovered during the inspection of the site. This will provide a common reference point for the inspector and building owner when discussing a homogeneous area.

SM/TSI/MM - The locations are identified as SM-Surfacing Material; TSI-Thermal Systems Insulation; or MM-Miscellaneous Materials.

F/NF - These symbols indicate whether the suspect homogeneous area was composed of friable (F) or Non-friable (NF) material.

Physical Condition - Each homogeneous area is judged on its physical condition as explained on the bottom of the form.

Size - Each homogeneous area is quantified in units as explained at the bottom of the form.

Sample Numbers - The sample number is listed to help identify the location and corresponding HA# for that sample.

Hazard Assessment Recommendations: Assessment Form - This portion of the form contains the hazard assessment of the suspect locations identified in the survey. The reason for the classifications is also located in this area of the form.


The homogenous areas that tested *positive* are identified in the following table:

HOMOGENEOUS AREA (HA) NAME	HA #	F / NF	CLASSIFICATION SM/TSI/MM	SIZE SF / LF / MF
9" x 9" Floor Tile – Beige with Cream Streaks and Black Mastic	C	NF	MM	~300 SF
Black Adhesive	E	NF	MM	~4 SF
Interior Metal Window Glazing	G	NF	MM	~5 SF
Caulk – Black	H	NF	MM	~24 LF
Caulk – Grey	J	NF	MM	~36 LF

Key: ND= None Detected F = Friable NF = Non-friable SF = Square Feet LF = Linear Feet MF = Mudded Fittings
SM = Surfacing Material TSI = Thermal Systems Insulation MM = Miscellaneous Material TBD=To Be Determined

Please review the enclosed data and call if you have any questions.

Sincerely,


Douglas Haase
Director of Laboratory Services
Accreditation # A1370

ASBESTOS SURVEY SUMMARY

Building Name: Commercial Demolition

Date: 11/26/19

Building #: 225 S. Main St. Three Rivers, MI

HOMOGENEOUS AREA REPORT

HOMOGENEOUS AREA (HA) NAME	HA #	F / NF	K /A /N	CLASSIFICATION SM/TSI/MM	PHYSICAL CONDITION	SIZE SF / LF
Drywall and Mud	A	F	N	MM	7	~1475.5 SF
Textured Paint	B	F	N	SM	7	~18 SF
9" x 9" Floor Tile – Beige with Cream Streaks and Black Mastic	C	NF	K	MM	7	~300 SF
12" x 12" Floor Tile – Light Blue and Cream	D	NF	N	MM	7	~35 SF
Black Adhesive	E	NF	K	MM	7	~4 SF
Tan Adhesive	F	NF	N	MM	7	~1 SF
Interior Metal Window Glazing	G	NF	K	MM	7	~5 SF
Caulk – Black	H	NF	K	MM	7	~24 LF
Wooden Window Glazing	I	NF	N	MM	7	~5 SF
Caulk – Grey	J	NF	K	MM	7	~36 LF
Linoleum – Beige Squares	K	NF	N	MM	7	~240 SF
Light Grey Rolled Roofing	L	NF	N	MM	7	~300 SF
Dark Grey Rolled Roofing	M	NF	N	MM	7	~1700 SF
Red Siding Shingles	N	NF	N	MM	7	~75 SF
Roofing Tar	O	NF	N	MM	7	~3400 SF
12" x 12" Floor Tile – White with Brown Stripes	P	NF	N	MM	7	~16 SF
Fiberglass Insulation	Q	F	N	TSI	7	~2000 SF

ASBESTOS SURVEY DATA FORM

LOCATION: Commercial Demolition

LAB: 4961

ADDRESS: 225 S. Main Street, Three Rivers, MI

DATE: 11/26/19

HA#: C

HA DESCRIPTION: 9' x 9" Floor Tile – Beige with Cream Streaks and Black Mastic

HA LOCATION	Type SM/TSI/MM	Friability F/NF	Physical Condition	Size SF/LF/MF
Room 2 hallway and main room *mastic extends under the stairs	MM	NF	7	~300 SF
TOTAL				~300 SF

Sample No.	Description and Location	Results (%)
4961-06	Room 2 hallway side A	Layer 1 – ND Layer 2 – 5% Chrysotile Layer 3 - ND
4961-07	Room 2 hallway side C	Layer 1 – ND Layer 2 – 5% Chrysotile Layer 3 - ND

***Note:** All samples were collected in a statistically random manner representative of Homogeneous Area in accordance with 40 CFR 763.86.

Location	Recommendations
HA-C	Remove asbestos prior to demolition/renovation

Key: **F** = Friable **NF** = Non-friable **SF** = Square Feet **LF** = Linear Feet **MF** = Mudded Fittings
 SM = Surfacing Material **TSI** = Thermal Systems Insulation **MM** = Miscellaneous Material

Condition: 1 = Good 2 = Potential for Damage 3 = Potential for Significant Damage 4 = Damaged 5 = Damaged + Potential for Damage
 6 = Damaged + Potential for Significant Damage 7 = Significantly Damaged

ASBESTOS SURVEY DATA FORM

LOCATION: Commercial Demolition

LAB: 4961

ADDRESS: 225 S. Main Street, Three Rivers, MI

DATE: 11/26/19

HA#: I

HA DESCRIPTION: Wooden Window Glazing

HA LOCATION	Type SM/TSI/MM	Friability F/NF	Physical Condition	Size SF/LF/MF
On wooden windows on side D and C of building ~5 windows	MM	NF	7	~5 SF
TOTAL				~5 SF

Sample No.	Description and Location	Results (%)
4961-18	Side D back window	ND
4961-19	Side D front window	ND
<p><i>*Note: All samples were collected in a statistically random manner representative of Homogeneous Area in accordance with 40 CFR 763.86.</i></p>		

Location	Recommendations
HA-I	Non asbestos

Key: **F** = Friable **NF** = Non-friable **SF** = Square Feet **LF** = Linear Feet **MF** = Mudded Fittings
 SM = Surfacing Material **TSI** = Thermal Systems Insulation **MM** = Miscellaneous Material

Condition: 1 = Good 2 = Potential for Damage 3 = Potential for Significant Damage 4 = Damaged 5 = Damaged + Potential for Damage
 6 = Damaged + Potential for Significant Damage 7 = Significantly Damaged

ASBESTOS SURVEY DATA FORM

LOCATION: Commercial Demolition

LAB: 4961

ADDRESS: 225 S. Main Street, Three Rivers, MI

DATE: 11/26/19

HA#: K

HA DESCRIPTION: Linoleum – Beige Squares

HA LOCATION	Type SM/TSI/MM	Friability F/NF	Physical Condition	Size SF/LF/MF
Room 5	MM	NF	7	~240 SF
TOTAL				~240 SF

Sample No.	Description and Location	Results (%)
4961-22	Room 5 side center	ND
4961-23	Room 5 side D	ND
<p><i>*Note: All samples were collected in a statistically random manner representative of Homogeneous Area in accordance with 40 CFR 763.86.</i></p>		

Location	Recommendations
HA-K	Non asbestos

Key: **F** = Friable **NF** = Non-friable **SF** = Square Feet **LF** = Linear Feet **MF** = Mudded Fittings
 SM = Surfacing Material **TSI** = Thermal Systems Insulation **MM** = Miscellaneous Material

Condition: 1 = Good 2 = Potential for Damage 3 = Potential for Significant Damage 4 = Damaged 5 = Damaged + Potential for Damage
 6 = Damaged + Potential for Significant Damage 7 = Significantly Damaged

ASBESTOS SURVEY DATA FORM

LOCATION: Commercial Demolition

LAB: 4961

ADDRESS: 225 S. Main Street, Three Rivers, MI

DATE: 11/26/19

HA#: Q

HA DESCRIPTION: Fiberglass Insulation

HA LOCATION	Type SM/TSI/MM	Friability F/NF	Physical Condition	Size SF/LF/MF
Building Throughout	TSI	F	7	~2000 SF
TOTAL				~2000 SF

Sample No.	Description and Location	Results (%)
	Non Suspect – Fiberglass	
<p><i>*Note: All samples were collected in a statistically random manner representative of Homogeneous Area in accordance with 40 CFR 763.86.</i></p>		

Location	Recommendations
HA-Q	Non asbestos

Key: **F** = Friable **NF** = Non-friable **SF** = Square Feet **LF** = Linear Feet **MF** = Mudded Fittings
 SM = Surfacing Material **TSI** = Thermal Systems Insulation **MM** = Miscellaneous Material

Condition: 1 = Good 2 = Potential for Damage 3 = Potential for Significant Damage 4 = Damaged 5 = Damaged + Potential for Damage
 6 = Damaged + Potential for Significant Damage 7 = Significantly Damaged

Appendix Table of Contents

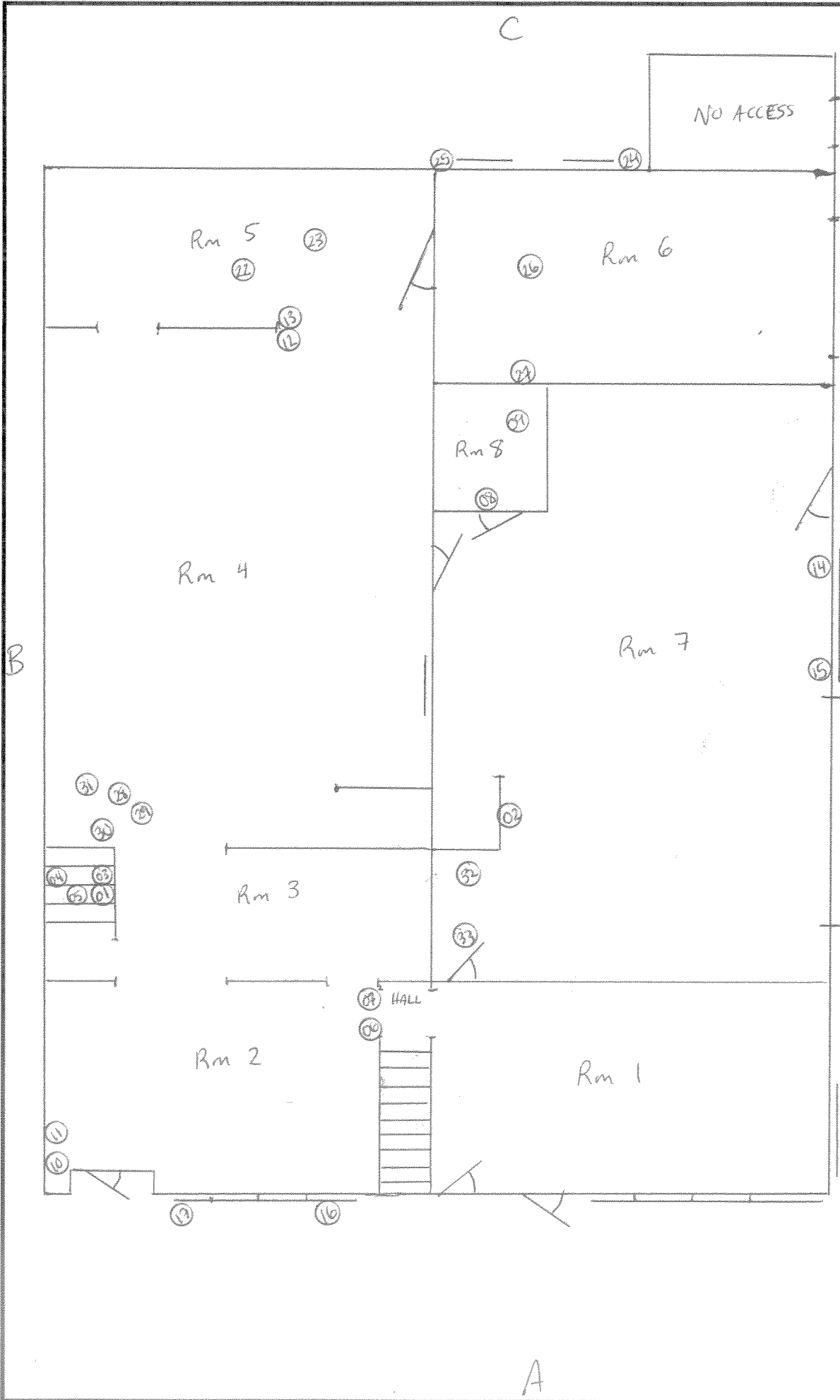
A) Site Location Map

B) Sample Results

C) Chain of Custody

D) ATCS Credentials

Appendix A
Site Location Map

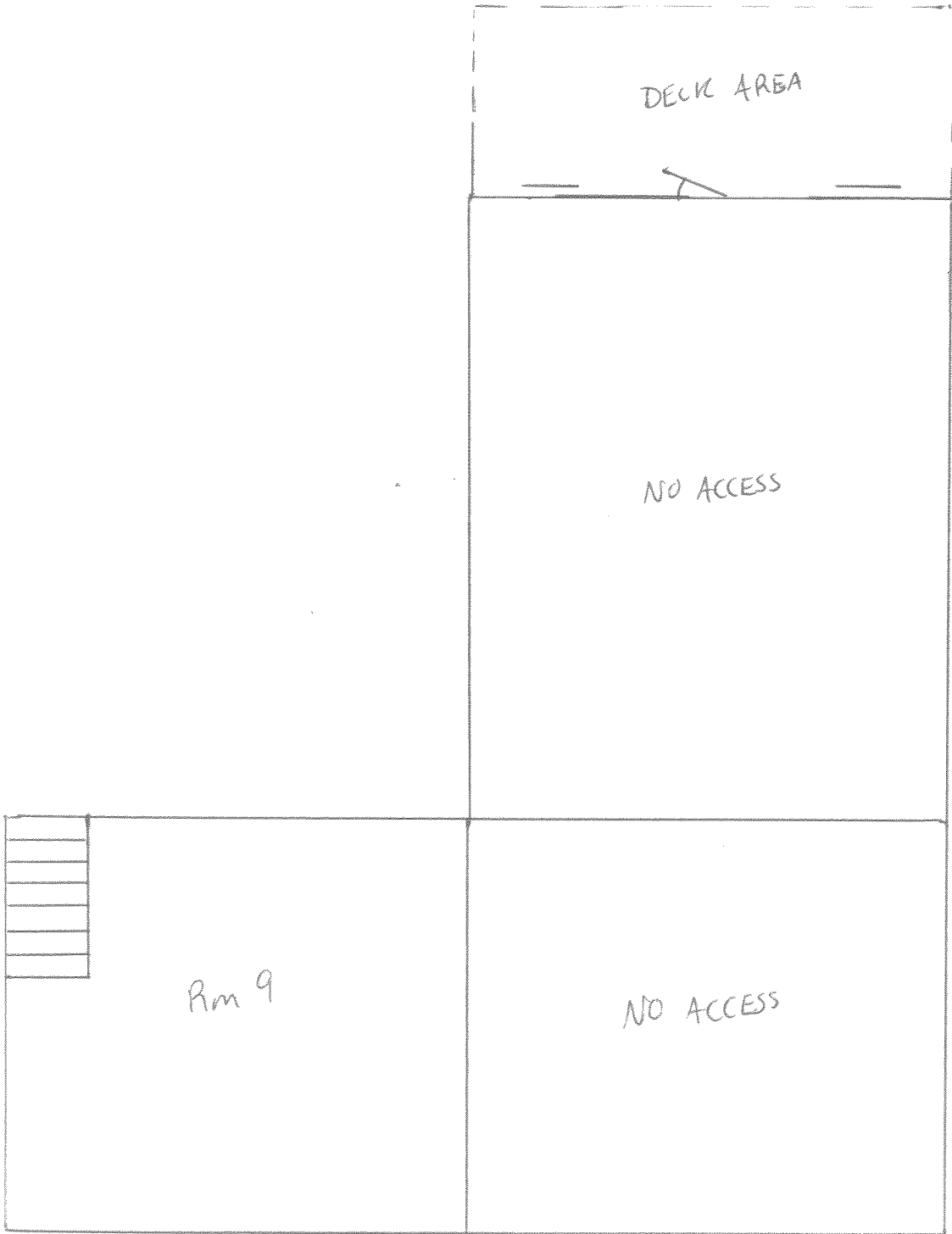


ANALYTICAL TESTING & CONSULTING	
ADDRESS: 225 S. Main St.	1st Level
Three Rivers, MT	
DATE: 11-26-19	LAB #: 4961
DRAWN BY: Tim R.	SCALE: NTS

D

B

C



20

21

18

19

A

D

ANALYTICAL TESTING & CONSULTING

ADDRESS: 225 S. Main St. 2nd Level
Three Rivers, ME

DATE: 11-26-19 LAB #: 4961

DRAWN BY: Tim R SCALE: NTS

Appendix B

Sample Results



ANALYTICAL TESTING & CONSULTING SERVICES, INC.

*14625 Doster Road
Plainwell, Michigan 49080
Phone: 269-664-6474
FAX: 269-664-6406*

December 11, 2019

John Beebe
City of Three Rivers
1015 South Lincoln Avenue
Three Rivers, MI 49093

Dear Mr. Beebe,

The bulk samples that were taken by ATCS on November 26, 2019 from 225 S. Main Street in Three Rivers, Michigan have been analyzed as requested and the results are compiled in the following table.

Lab #	Sample Description	Asbestos Identification	Non-Asbestos Fibrous Mat'l	Non-Fibrous Filler/Binder
4961-01	White Solid	None Detected	<5% Cellulose	Mixed Minerals Gypsum
4961-02	White Solid	None Detected	<5% Cellulose	Mixed Minerals Gypsum
4961-03	White Solid	None Detected	<5% Cellulose	Mixed Minerals
4961-04	White Solid	None Detected	<5% Cellulose	Mixed Minerals
4961-05	White Solid with Tan Fiber Cover	None Detected	20% Cellulose	Mixed Minerals Gypsum
4961-06 Layer 1	Yellow Adhesive	None Detected	None Detected	Mixed Minerals Adhesive
4961-06 Layer 2	Tan Solid with White Fibers	5% Chrysotile	None Detected	Mixed Minerals
4961-06 Layer 3	Black Adhesive	None Detected	None Detected	Mixed Minerals Organic Tar
4961-07 Layer 1	Yellow Adhesive	None Detected	None Detected	Mixed Minerals Adhesive
4961-07 Layer 2	Tan Solid with White Fibers	5% Chrysotile	None Detected	Mixed Minerals

4961-07 Layer 3	Black Adhesive	None Detected	None Detected	Mixed Minerals Organic Tar
4961-08 Layer 1	Black Solid with Off White Cover	None Detected	None Detected	Mixed Minerals
4961-08 Layer 2	Clear Adhesive	None Detected	None Detected	Mixed Minerals Adhesive
4961-09 Layer 1	Black Solid with Off White Cover	None Detected	None Detected	Mixed Minerals
4961-09 Layer 2	Clear Adhesive	None Detected	None Detected	Mixed Minerals Adhesive
4961-10	Black Adhesive	5% Chrysotile	None Detected	Mixed Minerals
4961-11	Black Adhesive	5% Chrysotile	None Detected	Mixed Minerals
4961-12	Yellow Adhesive	None Detected	None Detected	Mixed Minerals Adhesive
4961-13	Yellow Adhesive	None Detected	None Detected	Mixed Minerals Adhesive
4961-14	Off White Solid	5% Chrysotile	<5% Cellulose	Mixed Minerals
4961-15	Off white solid	5% Chrysotile	<5% Cellulose	Mixed Minerals
4961-16	Black/Gray solid	5% Chrysotile	None Detected	Mixed Minerals
4961-17	Black/Gray solid	5% Chrysotile	None Detected	Mixed Minerals
4961-18	Off White Solid	None Detected	None Detected	Mixed Minerals
4961-19	Off White Solid	None Detected	None Detected	Mixed Minerals
4961-20	Brown Solid with White Fibers	5% Chrysotile	None Detected	Mixed Minerals
4961-21	Brown Solid with White Fibers	5% Chrysotile	None Detected	Mixed Minerals
4961-22 Layer 1	Off White Fiber and Filler with Tan Cover	None Detected	20% Fibrous Glass 30% Cellulose	Mixed Minerals
4961-22 Layer 2	Yellow Adhesive	None Detected	None Detected	Mixed Minerals Adhesive
4961-23 Layer 1	Off White Fiber and Filler with Tan Cover	None Detected	20% Fibrous Glass 30% Cellulose	Mixed Minerals
4961-23 Layer 2	Yellow Adhesive	None Detected	None Detected	Mixed Minerals Adhesive

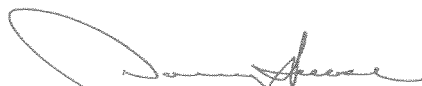
4961-24	Black Solid with Tan Fibers and White Aggregate	None Detected	20% Cellulose	Mixed Minerals Organic Tar
4961-25	Black Solid with Tan Fibers and White Aggregate	None Detected	20% Cellulose	Mixed Minerals Organic Tar
4961-26	Black Solid with Clear Fibers and White Aggregate	None Detected	20% Cellulose	Mixed Minerals Organic Tar
4961-27	Black Solid with Clear Fibers and White Aggregate	None Detected	20% Cellulose	Mixed Minerals Organic Tar
4961-28	Black Solid with Red Aggregate	None Detected	30% Cellulose	Mixed Minerals Organic Tar
4961-29	Black Solid with Red Aggregate	None Detected	30% Cellulose	Mixed Minerals Organic Tar
4961-30	Black Solid Fiber and Filler	None Detected	20% Fibrous Glass	Mixed Minerals Organic Tar
4961-31	Black Solid Fiber and Filler	None Detected	20% Fibrous Glass	Mixed Minerals Organic Tar
4961-32 Layer 1	Off White Solid	None Detected	None Detected	Mixed Minerals
4961-32 Layer 2	Opaque Adhesive	None Detected	None Detected	Mixed Minerals Adhesive
4961-33 Layer 1	Off White Solid	None Detected	None Detected	Mixed Minerals
4961-33 Layer 2	Opaque Adhesive	None Detected	None Detected	Mixed Minerals Adhesive

Percentage results are estimates only.
 Test results related to items tested only.
 Samples are held thirty (30) days.

*Client ID#

ND – None Detected Less than 1%

Analysis performed using polarized light microscopy with dispersion staining according to U.S.E.P.A. procedures.



Douglas A. Haase,
Director of Laboratory Services

Appendix C
Chain of Custody

Appendix D
ATCS Credentials

State of Michigan

Department of Community and Economic Affairs

Division of Occupational Safety & Health, Environmental Health & Safety, Asbestos Program

Asbestos Inspector

Timothy A. Raymond
144 Avon Drive
Battle Creek, MI 49037



Accreditation Number
A53138

Expiration Date
10/15/2020

DOB: 03/04/1994

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. 142433