Asbestos Sampling Survey Report

211 and 213 East Broadway Street
Stanwood, Cedar County, Iowa 52337

July 22, 2021

Terracon Project No. 07207086; Task 5

Prepared for:
East Central Intergovernmental Association (E.C.I.A.)
Dubuque, Iowa

Prepared by:
Terracon Consultants, Inc.
Bettendorf, Iowa

July 22, 2021

Ms. Dawn Danielson
East Central Iowa Intergovernmental Association
7600 Commerce Park
Dubuque, Iowa 52002-9673

Re: Asbestos Sampling Survey Report
211 and 213 East Broadway Street
Stanwood, Cedar County, Iowa 52337
Terracon Project No. 07207086; Task 5
Brownfields Assessment Grant: BF97782001

Dear Ms. Danielson:

Terracon Consultants, Inc. (Terracon) is pleased to submit the attached report for the above referenced site to East Central Iowa Intergovernmental Association (ECIA). The purpose of this report is to present the results of the asbestos sampling survey conducted on May 14 and 24, 2021. The assessment was conducted in accordance with the Standard Consultant Contract *For Qualified Environmental Professional (QEP) Consultant Contract, ECIA Brownfield Coalition* dated December 3, 2020, and the Notice to Proceed Asbestos Inspection on 211-213 Broadway, Stanwood, dated May 4, 2021. The survey was requested to identify asbestos-containing materials (ACMs) in the buildings located at 211 and 213 East Broadway Street Stanwood, Iowa.

Asbestos-containing materials (ACMs) were identified in the samples collected on May 14 and 24, 2021 from suspect ACMs associated with the above-referenced location. Please refer to the attached report for additional details.

Terracon appreciates the opportunity to provide this service to ECIA. If you have questions regarding this report, please contact the undersigned at 563-355-0702.

Sincerely,
Terracon Consultants, Inc.

Alexander J. Davis
Environmental Scientist

James R. Baxter
Environmental Group Manager

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ASBESTOS SAMPLING SURVEY REPORT
211 and 213 East Broadway Street
Cedar County, Stanwood, Iowa
Terracon Project No. 07217086; Task 5

July 22, 2021

1.0 INTRODUCTION

Terracon Consultants, Inc. (Terracon) conducted an asbestos survey of the buildings located at 211 and 213 East Broadway Street, Stanwood, Cedar County, Iowa for East Central Iowa Intergovernmental Association (ECIA). The survey was conducted on May 14 and 24, in accordance with the Standard Consultant Contract *For Qualified Environmental Professional (QEP) Consultant Contract, ECIA Brownfield Coalition* (The Agreement) dated December 3, 2020, the Notice to Proceed Asbestos Inspection on 211-213 Broadway, Stanwood, dated May 4, 2021, the Generic Quality Assurance Project Plan (QAPP), dated April 7, 2021. We understand the survey was requested to identify asbestos-containing materials (ACMs) in advance of planned demolition of the buildings.

The purpose of this survey report is to present the findings for bulk samples of building materials collected at the site. The scope of Terracon's services for the survey included the following:

- Sampling of suspect asbestos-containing materials associated with the buildings; and
- Completion of this survey report.

Suspect ACM samples were collected in accordance with the sampling protocols outlined in US Environmental Protection Agency (USEPA) regulation 40 Code of Federal Regulations Part 763-Asbestos, Subpart E-Asbestos-Containing Materials in Schools (40 CFR 763; known as the Asbestos Hazard Emergency Response Act, [AHERA]) and Terracon's Sampling and Analysis Plan and delivered to a National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory for analysis by polarized light microscopy (PLM).

1.1 Project Objective

We understand this asbestos survey was requested to satisfy requirements of USEPA 40 CFR 61 Subpart M, the asbestos National Emission Standards for Hazardous Air Pollutants (NESHAP), which applies to buildings or structures that are demolished or renovated.

1.2 Reliance

This report is for the exclusive use of ECIA for the project being discussed. Reliance by other parties on this report is prohibited without written authorization of Terracon and ECIA. Reliance on this report by ECIA and all authorized parties will be subject to the terms, conditions, and limitations stated in the proposal, this report, and the Standard Consultant Contract. The limitations of liability defined in The Agreement is the aggregate limit of Terracon's liability to ECIA.

2.0 SITE DESCRIPTION

Terracon understands that the site consists of two structures, located at 211 and 213 East Broadway street in Stanwood, cedar county, Iowa. Based on information obtained from the cedar county assessor's office, the structures appear to have been constructed circa 1900 and are slated for demolition. Visual inspection shows structural damage to the south end of the building. The structures are 2-story buildings on a concrete slab the exterior of the buildings is brick and interior finishes of drywall, drop ceilings, terrazzo, carpet, floor tile, and vinyl sheet flooring.

3.0 FIELD ACTIVITIES

In accordance with the asbestos Sampling and Analysis Plan (SAP) dated April 12, 2021, the sampling was conducted by State of Iowa licensed asbestos inspectors Mr. Alexander J. Davis (license number 20-5247) on May 14, 2021 and Mr. Steven M. Mack (license number 21-5471) on May 21, 2021. Copies Mr. Davis' and Mr. Mack's asbestos inspector licenses are included in Appendix C.

3.1 Visual Assessment

Sampling activities were initiated with visual assessments at the station to identify homogeneous areas of suspect ACM. A homogeneous area (HA) consists of materials that appear similar throughout in terms of color and texture with consideration given to the date of application. Components identified as fiberglass, glass, metal, rubber, or wood are not considered suspect ACM and therefore, were not sampled.

3.2 Physical Assessment

A physical assessment of each HA of suspect ACM was conducted to assess the friability and condition of the heater components. A friable material is defined by the USEPA as a material that can be crumbled, pulverized, or reduced to powder by hand pressure when dry. Friability was assessed by physically touching suspect components.

3.3 Sample Collection

Based on results of the visual assessment, bulk samples of suspect ACM were collected in general accordance with USEPA sampling protocols. Samples of the suspect components were collected from the building. Bulk samples were collected using wet methods as applicable to reduce the potential for fiber release. Samples were placed in unused, dedicated and disposable sealable bags; an indelible marker was used to record the unique sample identification code on each bag. Asbestos content of suspect ACM does not diminish, degrade, or alter as a result of sample collection, holding periods, and laboratory analysis. Therefore, preservation methods and hold time limits do not apply to quality assurance/quality control (QA/QC) measures of field and laboratory activities.

To improve representativeness of samples collected to the various homogeneous areas, Terracon collected a minimum of three samples of each homogeneous area. Asbestos content in some building materials may not be constant; therefore, variation in some building materials may not indicate inaccuracy. Terracon collected 72 bulk samples from 23 homogeneous areas of ACM associated with the buildings. A summary of suspect ACM samples collected during the survey and quantity of samples collected for each homogeneous area is included as **Table 3** in **Appendix A**.

3.4 Sample Analysis

The bulk samples collected were submitted under chain of custody to EMSL Analytical, Inc. (EMSL) of Cinnaminson, New Jersey, for analysis by PLM with dispersion staining techniques per USEPA's *Method for the Determination of Asbestos in Bulk Building Materials* (600/R-93/116). The percentage of asbestos, if present, was determined by microscopic visual estimation. EMSL is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP), Accreditation No. 101048-0. EMSL personnel conducted laboratory data validation for precision and accuracy in accordance with their standard laboratory analytical procedures provided with the Generic QAPP dated April 7, 2021. Based on findings via PLM analysis, supplemental analysis (point counting or other similar process to improve data precision) was not warranted or recommended by the lab to determine whether samples collected and analyzed represent asbestos containing materials in accordance with 40 CFR Part 61 subpart M.

4.0 REGULATORY OVERVIEW

In Iowa, asbestos activities are regulated by the Iowa Department of Natural Resources (IDNR) and the Division of Labor, Iowa Workforce Development (IWD). IDNR regulates asbestos fiber emissions under Iowa Administrative Code 567 Chapter 23 (IAC 567-23) and asbestos-containing waste disposal under IAC 567-109. IWD regulates occupational exposure to asbestos under IAC 875-10 and asbestos removal and encapsulation activities under IAC 875-155.

IAC 567-23.1(3) adopts USEPA's asbestos NESHAP (40 CFR Part 61, Subpart M) by reference. Subpart M regulates asbestos fiber emissions and asbestos waste disposal practices. It also requires the identification and classification of existing materials prior to demolition or renovation activity. Under NESHAP, asbestos-containing building materials are classified as friable, Category I nonfriable, or Category II nonfriable ACM. Friable materials are those that, when dry, may be crumbled, pulverized, or reduced to powder by hand pressure. Category I nonfriable ACM includes packings, gaskets, resilient floor coverings, and asphalt roofing products containing more than 1% asbestos. Category II nonfriable ACM are any materials other than Category I materials that contain more than 1% asbestos.

Regulated ACM (RACM) must be removed before renovation or demolition activities that will disturb the materials. RACM includes:

- Friable ACM;
- Category I nonfriable ACM that has become friable or will be subjected to drilling, sanding, grinding, cutting, or abrading; and
- Category II nonfriable ACM that could be crumbled, pulverized, or reduced to powder during renovation or demolition activities.

The owner or operator must provide the IDNR and IWD with written notification of planned removal activities at least 10 working days prior to the commencement of asbestos abatement activities. Removal of RACM must be conducted by an Iowa-permitted asbestos abatement contractor.

IAC 875-155 Asbestos Removal and Encapsulation require that any asbestos-related activity conducted in a public building must be conducted by personnel licensed or permitted by the IWD. Inspections for ACM must be conducted by IWD-licensed inspectors. Asbestos abatement must be conducted by IWD-permitted asbestos abatement contractors. When an abatement project design is prepared, it must be prepared by an IWD-licensed project designer.

IAC 875-10 adopts the OSHA Asbestos Standard for construction (29 CFR 1926.1101) by reference. The OSHA standard requires that employee exposure to airborne asbestos fibers be maintained below the permissible exposure limits (PELs) of 0.1 asbestos fiber per cubic centimeter of air (0.1 f/cc) as an 8-hour time-weighted average (TWA) or 1.0 f/cc as a 30-minute excursion limit. The OSHA standard classifies construction and maintenance activities that could disturb ACM and specifies work practices and precautions that employers must follow when engaging in each class of regulated work.

5.0 FINDINGS

Laboratory analysis of bulk samples confirmed the presence of asbestos in samples collected on May 14 and 24, 2021. Based on the results of the asbestos sampling, the following ACMs were confirmed:

- Roof flashing – black, gray, and white coating (3% Chrysotile) Located on building 213 roof, south end flashing
- Build-up roof – black, gray with brown fibrous insulation (8-10%Chrysotile) Located on building 213 roof
- Build-up roof – black, gray, and white tar coating (3% Chrysotile) Located on Building 211 roof
- Window glazing – white (3% Chrysotile) Located on the exterior of the building on older windows
- Window caulk – white (3% Chrysotile) Located on the exterior of the building around older window openings
- Vinyl sheet flooring – brown and tan (25% Chrysotile) Located in building 211 north end apartment kitchen
- Vinyl sheet flooring – brown square pattern (25% Chrysotile) Located in building 211 South end apartment kitchen
- Vinyl sheet flooring – off-white/gray squared pattern (20% Chrysotile) Located in 213 north end apartment bathroom
- Terrazzo flooring (3% Chrysotile) Located in building 213 1st floor path ways
- Vinyl sheet flooring – off-white/gray with streaks (20% Chrysotile) Located in 211 1st floor office on east side of building in bathroom
- Vinyl sheet flooring – yellow, pebble pattern (20% Chrysotile) Located in 211 1st floor office on west side of building in bathroom and middle room

The ACM is considered a Category I nonfriable material and must be removed by a licensed asbestos abatement contractor prior to demolition of the buildings and must be disposed of at an approved landfill.

A Less Than 1% ACM Summary is included as **Table 1**, A Confirmed ACM Summary is included as Table 2 in Appendix A, the Asbestos Survey Sample Location Summary is included as **Table 3** in **Appendix A**, and a copy of the asbestos analytical laboratory data is included as **Appendix B**. A confirmed ACM Photo Log is included as **Appendix D** and a Positive ACM Sample Location Map is included as **Appendix E**.

6.0 LIMITATIONS/GENERAL COMMENTS

The survey was conducted utilizing limited destructive sampling techniques. This asbestos survey was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the same locale. The results, findings, conclusions, and recommendations expressed in this report are based on the specific conditions during our sampling. The information contained in this report is relevant to the date on which the sampling was conducted and should not be relied upon to represent conditions at a later date. This report has been prepared on behalf of and exclusively for use by ECIA for

specific application to their project as discussed. This report is not a bidding document. Contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary. Terracon does not warrant the work of regulatory agencies, laboratories, or other third parties supplying information used in the preparation of this report. No warranty, express or implied is made.

APPENDIX A
211 and 213 East Broadway Street
Stanwood, Stanwood Cedar County, Iowa

Table 1. Less Than 1% ACM by Homogeneous Area (HA)

HA #	HA Material Description	HA Material Location	Percent/Type Asbestos	Friability	Condition	Estimated Quantity (LF)[1]
1	Roof flashing – black, gray, and white coating	Building 213 roof, south end flashing	<1% chrysotile	Non-friable	Significant damage	120 LF

Table 2. Confirmed Asbestos-Containing Materials by Homogeneous Area (HA)

HA #	HA Material Description	HA Material Location	Percent/Type Asbestos	Friability	Condition	Estimated Quantity (LF)
1	Roof flashing – black, gray, and white coating	Building 213 roof, south end flashing	3% chrysotile	Non-friable	Significant damage	120 LF
2	Build-up roof – black, gray with brown fibrous insulation	Building 213 roof, south end, near roof edge	8-10% chrysotile	Non-friable	Significant damage	900 SF
2	Build-up roof – black, gray, and white tar coating	Building 211 roof, south end, near roof edge	3% chrysotile	Non-friable	Significant damage	750 SF
3	Window glazing - white	Around the building	3% chrysotile	Friable	Damaged	7 Units
4	Window caulk - white	Around original window openings	3% chrysotile	Friable	Damaged	200 LF
8	Vinyl sheet flooring – brown and tan	Building 211 kitchen, north end apartment	25% chrysotile	Non-friable	Good	70 SF
9	Vinyl sheet flooring – brown square pattern	Building 211 kitchen, north end apartment	25% chrysotile	Non-friable	Good	70 SF

[1] Estimated quantities are based on a cursory field evaluation, and actual quantities may vary significantly, especially if asbestos containing materials are present in hidden and/or inaccessible areas not evaluated as part of this survey. LF = linear feet

13	Vinyl sheet flooring – off-white/gray squared pattern	Bathroom of apartment 213, 2nd floor	20% chrysotile	Non-friable	Good	70 SF
15	Terrazzo flooring	Building 213, 1st floor paths	3% chrysotile	Non-friable	Good	525 SF
18	Vinyl sheet flooring – off-white/gray with streaks	Building 211, 1st floor bathroom, east side	20% chrysotile	Non-friable	Good	32 SF
21	Vinyl sheet flooring – yellow, pebble pattern	Building 211, west side, middle of 1st floor	20% chrysotile	Non-friable	Good	140 SF

Table 3. Asbestos Survey Sample Location Summary

HA #	Sample #	Material Description	Layer	Sample Locations	Lab Results
1	1-MA1-1	Red brick with gray mortar	Brick	Southwest corner of the building	ND[2]
			Mortar		ND
	1- MA1-2		Brick	South center of building in rubble	ND
			Mortar		ND
	1-MA1-3		Brick	Northeast corner of building	ND
			Mortar		ND
2	2-MA6-4	Gray stucco	Stucco	Back of building west wall	ND
	2-MA6-5		Stucco	South center of building in rubble	ND
	2-MA6-6		Stucco	Southeast corner of building	ND
3	3-SC1-7	White window glazing	Glaze	South end east wall lower window	3% chrysotile
	3-SC1-8		Glaze	Northeast 2nd floor far window	ND
	3-SC1-9		Glaze	Northwest 2nd floor far window	3% chrysotile

[2] ND = none detected

HA #	Sample #	Material Description	Layer	Sample Locations	Lab Results
4	4-CA1-10	White window caulk	Caulk	Southwest east wall 1st floor upper window	ND
	4-CA1-11		Caulk	South end 2nd floor 2nd to last window to west	ND
	4-CA1-12		Caulk	North side east end 2nd floor 3rd window to west end	3% chrysotile
5	5-CA2-13	White door caulk	Caulk	South center door	ND
	5-CA2-14		Caulk	Northwest most door	ND
	5-CA2-15		Caulk	Northeast corner of building wood to brick	ND
6	6-WB1-16	White drywall, tape, mud	Drywall	211 2nd floor north end apartment living room wall	ND
	6-WB1-17		Drywall	213 2nd floor north end apartment ceiling	ND
	6-WB1-18		Drywall	213 1st floor south wall entry room wall	ND
7	7-WB4-19	White popcorn texture ceiling	Texture	211 north end apartment bathroom	ND
	7-WB4-20		Texture	211 south apartment living room	ND
	7-WB4-21		Texture	Staircase to upstairs apartments	ND
8	8-SG1-22	Brown and tan vinyl sheet flooring	Vinyl flooring	211 north apartment kitchen northeast center	25% chrysotile
	8-SG1-23		Vinyl flooring	211 north apartment kitchen south end by wall	25% chrysotile
	8-SG1-24		Vinyl flooring	211 north apartment kitchen center of room	25% chrysotile
9	9-SG1-25	Gray square pattern vinyl sheeting 2ndy layer brown and tan vinyl sheet flooring	Vinyl flooring	211 south apartment kitchen south end	ND
			Vinyl flooring		25% chrysotile
	9-SG1-26		Vinyl flooring	211 south apartment north end by sink	ND
			Vinyl flooring		25% chrysotile
	9-SG1-27		Vinyl flooring	211 south apartment center of room	ND
			Vinyl flooring		25% chrysotile

HA #	Sample #	Material Description	Layer	Sample Locations	Lab Results
10	10-SG1-28	12” tan square pattern vinyl sheet flooring	Vinyl flooring	211 south apartment doorway to bathroom	ND
	10-SG1-29		Vinyl flooring	211 south apartment bathroom by bath tub	ND
	10-SG1-30		Vinyl flooring	211 south apartment center of bathroom	ND
11	11-MG7-31	Yellow carpet glue	Glue	North end apartment 211 living room	ND
	11-MG7-32		Glue	213 2nd floor east side apartment living room	ND
	11-MG7-33		Glue	211 1st floor east side middle room	ND
12	12-SG1-34	9” gray squares and tar paper	Flooring	Center of kitchen in building 213 2nd floor apartment	ND
			Tar paper		ND
	12-SG1-35		Flooring	Doorway into apartment 213 2nd floor	ND
			Tar paper		ND
	12-SG1-36		Flooring	Center of bedroom under carpet in building 213 apartment	ND
			Tar paper		ND
13	13-SG1-37	Off white/gray square pattern vinyl sheet flooring	Vinyl flooring	Entry to 213 bathroom 2nd floor apartment	20% chrysotile
	13-SG1-38		Vinyl flooring	North end window in 213 2nd floor apartment	20% chrysotile
	13-SG1-39		Vinyl flooring	Center of bathroom in 213 2nd floor apartment	20% chrysotile
14	14-FT2-40	12” x 12” gray square pattern floor tile and associated adhesive	Flooring	213 apartment entry way south door way	ND
	14-FT2-41		Flooring	213 apartment entry way center of area	ND
	14-FT2-42		Flooring	213 apartment entry way northeast by apartment doorway	ND
15	15-MS5-43	Gray terrazzo with speckles	Terrazzo	Center of north room building 213 1st floor	3% chrysotile
	15-MS5-44		Terrazzo	Center of middle room building 213 1st floor	3% chrysotile
	15-MS5-45		Terrazzo	West side of north room building 213 1st floor	3% chrysotile

HA #	Sample #	Material Description	Layer	Sample Locations	Lab Results
16	16-SG1-46	Gray rock pattern vinyl sheet flooring	Vinyl flooring	Building 213 1st floor entry way at doorway	ND
	16-SG1-47		Vinyl flooring	Building 213 1st floor entry way in the center	ND
	16-SG1-48		Vinyl flooring	Building 213 1st floor entry way on west side of room	ND
17	17-CT2-49	2; x 3' white ceiling tiles	Ceiling tile	Buildign213 1st floor far south end of building	ND
	17-CT2-50		Ceiling tile	Building 213 1st floor in center of room	ND
	17-CT2-51		Ceiling tile	Building 213 1st floor from fallen tile in south room	ND
18	18-SG1-52	Off white/gray with streaks vinyl sheet flooring	Vinyl flooring	Doorway to bathroom 211 east side 1st floor	20% chrysotile
	18-SG1-53		Vinyl flooring	South wall of bathroom 211 east side 1st floor	20% chrysotile
	18-SG1-54		Vinyl flooring	Center of bathroom 2111 east side 1st floor	20% chrysotile
19	19-CT1-55	2' x 4' white with small fissures and pinholes ceiling tile	Ceiling tile	Center of middle room 211 east side 1st floor	ND
	19-CT1-56		Ceiling tile	By doorway middle and north room 211 east side 1st floor	ND
	19-CT1-57		Ceiling tile	Center of north room in 211 east side 1st floor	ND
20	20-SG1-58	4" square pattern multi-color vinyl sheet flooring	Vinyl flooring	By north door to room 1st floor building 211 east side	ND
	20SG1-59		Vinyl flooring	Center of room 1st floor building 211 east side	ND
	20-SG1-60		Vinyl flooring	By door to middle room 1st floor building 211 east side	ND
21	21-SG1-61	Yellow pebble pattern vinyl sheet flooring	Vinyl flooring	Under shower 1st floor building 211 west side	20% chrysotile
	21-SG1-62		Vinyl flooring	Under carpet center of middle room building 211 west side	20% chrysotile
	21-SG1-63		Vinyl flooring	From debris pile in middle room building 211 west side	20% chrysotile
MAY 24, 2021 ROOF SAMPLING					
1	1-RF4-01	Roof flashing	Black/gray/white	Southeast corner of building on the parapet wall	<1% chrysotile
	1-RF4-02		Black	South end center of the building, near the roof edge	3% chrysotile
	1-RF4-03		Black	South end center on the brick parapet bump-out	<1% chrysotile
	1-RF4-04		Gray/white	South end center on the brick parapet bump-out	ND

HA #	Sample #	Material Description	Layer	Sample Locations	Lab Results
2	2-RF8-04	Building 213 - Build-up roof	Black/brown	Southeast corner near parapet wall	8% chrysotile
	2-RF8-05		Black/brown	South end center area, near the roof edge	10% chrysotile
	2-RF8-06		Black/brown	Southwest side near parapet wall	8% chrysotile
	2-RF8-07	Building 211 - Build-up roof	White	Southeast corner near parapet wall	ND
	2-RF8-07		Black	Southeast corner near parapet wall	3% chrysotile
	2-RF8-08		White	South end center area near bump-out	ND

APPENDIX B

ASBESTOS ANALYTICAL LABORATORY REPORT

EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

http://www.EMSL.com / cinnasblab@EMSL.com

EMSL Order:	042111622
Customer ID:	TEI93
Customer PO:	07207086
Project ID:	

Attention:	Kathy Toft	**Phone:**	(563) 355-0702
	Terracon Consultants, Inc.	**Fax:**	(319) 355-4789
	870 40th Avenue	**Received Date:**	05/17/2021 8:40 AM
	Bettendorf, IA 52722	**Analysis Date:**	05/19/2021 - 05/20/2021
		Collected Date:	05/14/2021

Project: Starwood / 211 and 213 East Broadway, Stanwood, Iowa / 211 and 213 / 07207086

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
1-MA1-1-Brick *042111622-0001*	Southwest Corner of Building - Red Brick	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-MA1-1-Mortar *042111622-0001A*	Southwest Corner of Building - Gray Mortar	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-MA1-2-Brick *042111622-0002*	South Center of Building in Rubble - Red Brick	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-MA1-2-Mortar *042111622-0002A*	South Center of Building in Rubble - Gray Mortar	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-MA1-3-Brick *042111622-0003*	Northeast Corner of Building - Red Brick	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-MA1-3-Mortar *042111622-0003A*	Northeast Corner of Building - Gray Mortar	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2-MA6-4 *042111622-0004*	Back of Building West Wall - Gray Stucco	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2-MA6-5 *042111622-0005*	South Center of Building in Rubble - Gray Stucco	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2-MA6-6 *042111622-0006*	Southeast Corner of Building - Gray Stucco	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
3-SC1-7 *042111622-0007*	South End East Wall Lower Window - White Glaze	Gray Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
3-SC1-8 *042111622-0008*	Northeast 2nd Floor Far Window - White Glaze	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
3-SC1-9 *042111622-0009*	Northwest 2nd Floor Far Window - White Glaze	Gray Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
4-CA1-10 *042111622-0010*	Southwest East Wall Upper Window - White Caulk	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
4-CA1-11 *042111622-0011*	South End 2nd Floor 2nd to Last Window to West - White Caulk	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
4-CA1-12 *042111622-0012*	North Side East End 2nd Floor Window to East End - White Caulk	White Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
5-CA2-13 *042111622-0013*	South Center Door - White Caulk	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 05/21/2021 12:22:01

EMSL Analytical, Inc.
200 Route 130 North Cinnaminson, NJ 08077
Tel/Fax: (800) 220-3675 / (856) 786-5974
http://www.EMSL.com / cinnasblab@EMSL.com

EMSL Order:	042111622
Customer ID:	TEI93
Customer PO:	07207086
Project ID:	

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
5-CA2-14 *042111622-0014*	Northwest Most Door - White Caulk	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
5-CA2-15 *042111622-0015*	Northeast Corner of Building Wood to Brick - White Caulk	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
6-WB1-16 *042111622-0016*	211 North End Apartment Living Room Wall - White Drywall	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
6-WB1-17 *042111622-0017*	213 2nd Floor North End Apartment Ceiling - White Drywall	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
6-WB1-18 *042111622-0018*	213 1st Floor South Wall Entry Room Wall - White Drywall	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
7-WB4-19 *042111622-0019*	211 North End Room Bathroom - White Popcorn Texture	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
7-WB4-20 *042111622-0020*	211 South End Room Living Room - White Popcorn Texture	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
7-WB4-21 *042111622-0021*	Staircase to Upstairs - White Popcorn Texture	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
8-SG1-22 *042111622-0022*	Northeast Corner - Brown and Tan Vinyl Flooring	Brown Non-Fibrous Homogeneous		75% Non-fibrous (Other)	25% Chrysotile
8-SG1-23 *042111622-0023*	South End by Weall - Brown and Tan Vinyl Flooring	Brown Non-Fibrous Homogeneous		75% Non-fibrous (Other)	25% Chrysotile
8-SG1-24 *042111622-0024*	Center of Floor - Brown and Tan Vinyl Flooring	Brown Non-Fibrous Homogeneous		75% Non-fibrous (Other)	25% Chrysotile
9-SG1-25-Sheet Flooring *042111622-0025*	South End - Brown Square Pattern Vinyl Sheet Flooring	Brown Non-Fibrous Homogeneous		75% Non-fibrous (Other)	25% Chrysotile
9-SG1-25- Sheet Flooring 2 *042111622-0025A*	South End - Gray Square Pattern Vinyl Sheet Flooring	Gray Fibrous Homogeneous	40% Cellulose	60% Non-fibrous (Other)	None Detected
9-SG1-26-Sheet Flooring *042111622-0026*	North End by Sink - Brown Square Pattern Vinyl Sheet Flooring	Brown Non-Fibrous Homogeneous		75% Non-fibrous (Other)	25% Chrysotile
9-SG1-26-Sheet Flooring 2 *042111622-0026A*	North End by Sink - Gray Square Pattern Vinyl Sheet Flooring	Gray Fibrous Homogeneous	40% Cellulose	60% Non-fibrous (Other)	None Detected
9-SG1-27-Sheet Flooring *042111622-0027*	Center of Kitchen - Brown Square Pattern Vinyl Sheet Flooring	Brown Non-Fibrous Homogeneous		75% Non-fibrous (Other)	25% Chrysotile

Initial report from: 05/21/2021 12:22:01

EMSL Analytical, Inc.
200 Route 130 North Cinnaminson, NJ 08077
Tel/Fax: (800) 220-3675 / (856) 786-5974
http://www.EMSL.com / cinnasblab@EMSL.com

EMSL Order:	042111622
Customer ID:	TEI93
Customer PO:	07207086
Project ID:	

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
9-SG1-27-Sheet Flooring 2 *042111622-0027A*	Center of Kitchen - Gray Square Pattern Vinyl Sheet Flooring	Gray Fibrous Homogeneous	40% Cellulose	60% Non-fibrous (Other)	None Detected
10-SG1-28 *042111622-0028*	Doorway to Bathroom - 12" Square Tan Pattern Vinyl Flooring	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
10-SG1-29 *042111622-0029*	By Bathtub - 12" Square Tan Pattern Vinyl Flooring	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
10-SG1-30 *042111622-0030*	Center of Bathroom - 12" Square Tan Pattern Vinyl Flooring	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
11-MG7-31 *042111622-0031*	Northeast Apt 211 Living Room - Yellow Carpet Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
11-MG7-32 *042111622-0032*	213 2nd Floor East Side Apt Living Room - Yellow Carpet Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
11-MG7-33 *042111622-0033*	211 1st Floor East Side Middle Room - Yellow Carpet Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
12-SG1-34-Floor Tile *042111622-0034*	Center of Kitchen in 213 Apt - Gray Squares 9" Floor Tile	Gray Non-Fibrous Homogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected
12-SG1-34-Tar Paper *042111622-0034A*	Center of Kitchen in 213 Apt - Tar Paper	Black Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
12-SG1-35-Floor Tile *042111622-0035*	Doorway into 213 Apt - Gray Squares 9" Floor Tile	Gray Non-Fibrous Homogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected
12-SG1-35-Tar Paper *042111622-0035A*	Doorway into 213 Apt - Tar Paper	Black Non-Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
12-SG1-36-Floor Tile *042111622-0036*	Center of 213 Apt Bedroom under Carpet - Gray Squares 9" Floor Tile	Tan Non-Fibrous Homogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected
12-SG1-36-Tar Paper *042111622-0036A*	Center of 213 Apt Bedroom under Carpet - Tar Paper	Black Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
13-SG1-37 *042111622-0037*	Entry to 213 Bathroom - Off-white/Gray Square Pattern Vinyl Sheet	White Non-Fibrous Homogeneous		80% Non-fibrous (Other)	20% Chrysotile
13-SG1-38 *042111622-0038*	By Northend Window 213 Bathroom - Off-white/Gray Square Pattern Vinyl Sheet	White Non-Fibrous Homogeneous		80% Non-fibrous (Other)	20% Chrysotile
13-SG1-39 *042111622-0039*	Center of 213 Bathroom - Off-white/Gray Square Pattern Vinyl Sheet	White Fibrous Homogeneous		80% Non-fibrous (Other)	20% Chrysotile

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Project ID:	

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
14-FT2-40 *042111622-0040*	South Doorway - 12"x12" Gray Square Pattern Floor Tile Adhesive	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
14-FT2-41 *042111622-0041*	Center of Entryway - 12"x12" Gray Square Pattern Floor Tile Adhesive	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
14-FT2-42 *042111622-0042*	Northeast by Door to Apt - 12"x12" Gray Square Pattern Floor Tile Adhesive	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
15-MS5-43 *042111622-0043*	Center of North Room Suite 213 1st Floor - Terrazo	Gray Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
15-MS5-44 *042111622-0044*	Center of Middle Room - Terrazo	Gray Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
15-MS5-45 *042111622-0045*	West Side of North Room - Terrazo	Gray Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
16-SG1-46 *042111622-0046*	At Doorway - Gray Rock Pattern Vinyl Flooring	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
16-SG1-47 *042111622-0047*	In the Center - Gray Rock Pattern Vinyl Flooring	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
16-SG1-48 *042111622-0048*	On West Side of Room - Gray Rock Pattern Vinyl Flooring	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17-CT2-49 *042111622-0049*	Far South End of Building - 2'x3' Ceiling Tile White	White Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
17-CT2-50 *042111622-0050*	In Center of Center Room - 2'x3' Ceiling Tile White	White Non-Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
17-CT2-51 *042111622-0051*	From Falling Tiles in South Room - 2'x3' Ceiling Tile White	White Non-Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
18-SG1-52 *042111622-0052*	Doorway to Bathroom 211 East Side 1st Floor - Off-white/Gray with Streak Vinyl Sheet Flooring	White Non-Fibrous Homogeneous		80% Non-fibrous (Other)	20% Chrysotile
18-SG1-53 *042111622-0053*	South Wall of Bathroom 1st 211 East Side - Off-white/Gray with Streak Vinyl Sheet Flooring	White Non-Fibrous Homogeneous		80% Non-fibrous (Other)	20% Chrysotile
18-SG1-54 *042111622-0054*	Center of Bathroom 1st 211 East Side - Off-white/Gray with Streak Vinyl Sheet Flooring	White Non-Fibrous Homogeneous		80% Non-fibrous (Other)	20% Chrysotile

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EMSL Order:	042111622
Customer ID:	TEI93
Customer PO:	07207086
Project ID:	

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
19-CT-55 *042111622-0055*	Center of Middle Room 1st Floor 211 East Side - 2'x4' White Small Fissures and Pinholes	White Fibrous Homogeneous	65% Cellulose 30% Min. Wool	5% Non-fibrous (Other)	None Detected
19-CT-56 *042111622-0056*	By Doorway to Middle and Noprth Room 1st 211 East Side - 2'x4' White Small Fissures and Pinholes	White Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
19-CT-57 *042111622-0057*	Center of North Room 1st 211 East Side - 2'x4' White Small Fissures and Pinholes	White Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
20-SG1-58 *042111622-0058*	By North Door to Room 1st 211 East Side - 4" Square Multi-color Vinyl Sheet Flooring	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
20-SG1-59 *042111622-0059*	Center of Room 1st 211 East Side - 4" Square Multi-color Vinyl Sheet Flooring	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
20-SG1-60 *042111622-0060*	By Door to the Middle Room 1st 211 East Side - 4" Square Multi-color Vinyl Sheet Flooring	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
21-SG1-61 *042111622-0061*	Under Shower 1st Floor 211 West Side - Yellow Pebble Pattern Vinyl Sheet Flooring	Yellow Fibrous Homogeneous		80% Non-fibrous (Other)	20% Chrysotile
21-SG1-62 *042111622-0062*	Under Carepet Center of Middle Room - Yellow Pebble Pattern Vinyl Sheet Flooring	Yellow Fibrous Homogeneous		80% Non-fibrous (Other)	20% Chrysotile
21-SG1-63 *042111622-0063*	From Debris Pile in Middle Room - Yellow Pebble Pattern Vinyl Sheet Flooring	Yellow Non-Fibrous Homogeneous		80% Non-fibrous (Other)	20% Chrysotile

Analyst(s)
Stephen Severn (72)

Samantha Rundstrom, Laboratory Manager
or Other Approved Signatory

Initial report from: 05/21/2021 12:22:01

Terracon

04211622

Asbestos Bulk Sample and Chain of Custody Form

Lab Order ID:

Select a Laboratory:

Bettendorf: 870 40th Ave., Bettendorf, IA
52722 (563) 355 0702

Lab Location: HQ - Cinnaminson, NJ 101048-0

Project Name:	Stanwood	Project Number:	07207086	Project Manager:	James Baxter DNU as SM contact
Project Address:	211 & 213 East Broadway	City/State / Zip:	Stanwood, Iowa	Email Results/Invoice/Sample Confirmation To:	Alex.Davis@terracon.com James.Baxter@terracon.com
Site/Building:	211 & 213			EMSL Login: Enter Customer Contact as:	Kathy.Toft@terracon.com

Sample Identification HA – BS Code – Sample #	Sample Location Description	HA General Location	Material Description (Type; Color/Texture)	Quantity (SF, LF, Cubic Ft, Units)	NESHAP Classification[1]	Notes/Physical Condition[2]
1 -MA1 - 1	South west corner of building	Exterior of building	red brick gray mortar		F C1 C2	G D SD
1 -MA1- 2	south center of building in rubble					
1 -MA1 - 3	NorthEast corner of building					
2 -MA6 - 4	back of building west wall	south end of building	gray stucco		F C1 C2	G D SD
2 -MA6 - 5	South center of building in Rubble					
2 -MA6 - 6	southeast corner of building					
3 -SC1 - 7	South End East wall lower window	around building	white glazel	7 units	F C1 C2	G D SD
3 -SC1 - 8	Northeast 2nd floor far window					
3 -SC1 - 9	Northwest 2nd floor far window					
4 -CA1 - 10	Southwest End wall upper window	around windows	white caulk	11	F C1 C2	G D SD
4 -CA1 - 11	South end 2nd floor 2nd to last window to west					
4 -CA1 - 12	North side East end 2nd floor 3 window to East End					
5 -CA2 - 13	South center door	around doors & Edge of building	white caulk	80 lf	F C1 C2	G D SD
5 -CA2- 14	Northwest most door					
5 -CA2- 15	Northeast corner of building wood to brick					

Sampling Date: 5-14-21 Collected by (print): Alex Davis Inspector's Signature:

Relinquished by: Alex Davis Date/Time: 12/10/2020 5-14-21 Received by: Date/Time: 5-17-21 8:11

Analysis: PLM EPA 600/R-93/116 ☒ PLM 400 Point Count ☐ TEM ☐ Other

Turnaround Time: ~~Same Day~~ 24 Hrs ☐ 2 Days ☐ 3 Days ☐ 5 Days ☒ Other

Instructions:

Terracon ARMS: ☒ Stop Positive: ☐ Number of samples:

[1] F = Friable; C1 = Category I: packings, gaskets, asphaltic roofing products, resilient flooring; C2 = Category II Non-Friable: any materials other than Cat. I containing >1% asbestos

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OrderID: 042111622

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042111622 Lab Order ID:

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Asbestos Bulk Sample and Chain of Custody Form

Bettendorf: 870 40th Ave., Bettendorf, IA
52722 (563) 355 0702

Lab Location: HQ - Cinnaminson, NJ 101048-0

Sample Identification HA – BS Code – Sample #	Sample Location Description	HA General Location	Material Description (Type; Color/Texture)	Quantity (SF, LF, Cubic Ft, Units)	NESHAP[1] Classification	Notes/Physical Condition[2]
6 -WB1 - 16	211 North end Apartment living room wall	throughout Buildings	white dry wall Tape mud		F C1 C2	G D SD
6 -WB1 - 17	213 2nd Floor north End Apartment ceiling					
6 -WB1 - 18	213 1st floor southwall Entry room wall					
7 -WB4- 19	211 North End room bathroom	All 2nd floor ceilings	white Popcorn Texture +	925 SF	F C1 C2	G D SD
7 -WB4- 20	211 southend room living room					
7 -WB4- 21	stair case to upstairs					
8 -SG1 - 22	Northeast corner	Kitchen in all North end APT	brown + tan vinyl Flooring	70 SF	F C1 C2	G D SD
8 -SG1 - 23	South end by wall					
8 -SG1 - 24	center of floor					
9 -SG1 - 25	south end	Kitchen in all southend APT	gray square pattern vinyl sheet flooring	70 SF	F C1 C2 2 layer brown vinyl bottom layer	G D SD
9 -SG1- 26	North end by sink					
9 -SG1- 27	center of Kitchen					
10 -SG1- 28	Doorway to bathroom	bathroom in all southend APT	12" sauare tan pattern Vinyl flooring	30 SF	F C1 C2	G D SD
10 -SG1- 29	by bathtub					
10 -SG1- 30	center of bathroom					
11 -MG7- 31	North East APPt 211 living room	Throughout common building 211	Yellow carpet mastic		F C1 C2	G D SD
11 -MG7- 32	213 2nd floor East side South APt living room					
11 -MG7- 33	211 1st floor East side middle room					

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OrderID: 042111622

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Asbestos Bulk Sample and Chain of Custody Form

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Lab Location: HQ - Cinnaminson, NJ 101048-0

Sample Identification HA – BS Code – Sample #	Sample Location Description	HA General Location	Material Description (Type; Color/Texture)	Quantity (SF, LF, Cubic Ft, Units)	NESHAP[1] Classification	Notes/Physical Condition[2]
12 - SG1 - 34	center of kitchen in 213 APT	Kitchen & Bedroom 213 APT 2nd Floor	gray squares 9" ~~[illegible]~~ floor tile, rat paper	185 sf	F C1 C2	G D SD
12 - SG1 - 35	doorway into 213 APT					
12 - SG1 - 36	center of 213 APT bedroom under carpet					
13 - SG1 - 37	Entry to 213 bathroom	bathroom 213 APT 2nd floor	off white/gray square pattern vinyl sheet	70 sf	F C1 C2	G D SD
13 - SG1 - 38	by Northend window 213 bathroom					
13 - SG1 - 39	center of 213 bathroom					
14 - FT2 - 40	South door way	Entry way to 213 APT 2nd Floor	12"x12" gray square patter floor tile & Adhesive	50 sf	F C1 C2	G D SD
14 - FT2 - 41	center of Entryway					
14 - FT2 - 42	Northeast by door to APT					
15 - MS5 - 43	center of north room suite 213 1st floor	~~building~~ 213 1st Floor baths	Terrazo	325 sf	F C1 C2	G D SD
15 - MS5 - 44	center of middle room					
15 - MS5 - 45	west side of North room					
16 - SG1 - 46	at doorway	building 213 1st floor Entry	gray rock pattern Vinyl flooring	120 sf	F C1 C2	G D SD
16 - SG1 - 47	in the center					
16 - SG1 - 48	on west side of room					
17 - CT2 - 49	far South End of building	Throughout 213 1st FL building	2'x3' ceiling tile white	2,600 sf	F C1 C2	G D SD
17 - CT2 - 50	in center of center room					
17 - CT2 - 51	from fallin tiles in south room					

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Asbestos Bulk Sample and Chain of Custody Form

Lab Order ID:

Select a Laboratory:

Bettendorf: 870 40th Ave.,
Bettendorf, IA 52722 (563) 355 0702

Lab Location: HQ - Cinnaminson, NJ 101048-0

Sample Identification IA – BS Code – Sample #	Sample Location Description	HA General Location	Material Description (Type; Color/Texture)	Quantity (SF, LF, Cubic Ft, Units)	NESHAP[1] Classification	Notes/Physical Condition[2]
18 - SGI - 52	door way to bathroom 211 East side 1ST FL	off white/ gray with streak vinyl sheet floor	In bathroom to 211 East side 1st Floor	32 SF	F C1 C2	G D SD
18 - SGI - 53	South wall of bathroom 1ST 211 East sid					
18 - SGI - 54	center of bathroom 1ST 211 East side					
19 - CT - 55	center of middle room 1ST Fl 211 East side	In Entry/middle room 211 1ST Floor East side	2'x 4' white small fissures + Pinholes	200 SF	F C1 C2	G D SD
19 - CT - 56	by door way to middle & North room 1ST 211 East side					
19 - CT - 57	Center of North room 1ST 211 east side					
20 - SGI - 58	by North door to room 1ST 211 ~~East~~ side	In Entry room 211 1st Floor East side	4" inch square multi color vinyl sheet flooring	100 SF	F C1 C2	G D SD
20 - SGI - 59	center of room 1ST 211 East side					
20 - SGI - 60	by door to the middle room 1ST 211 East sid					
21 - SGI - 61	under shower 1ST FL 211 west side	In middle room 211 1st Floor west side	Yellow pebble pattern vinyl sheet flooring	140 SF	F C1 C2	G D SD
21 - SGI - 62	under carpet center of middle room					
21 - SGI - 63	from debris pile in middle room					
– –					F C1 C2	G D SD
– –						
– –						
– –					F C1 C2	G D SD
– –						
– –						

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http://www.EMSL.com / cinnasblab@EMSL.com

EMSL Order:	042112351
Customer ID:	TEI93
Customer PO:	07207086
Project ID:	

Attention:	Kathy Toft	**Phone:**	(563) 355-0702
	Terracon Consultants, Inc.	**Fax:**	(319) 355-4789
	870 40th Avenue	**Received Date:**	05/25/2021 9:45 AM
	Bettendorf, IA 52722	**Analysis Date:**	06/01/2021
		Collected Date:	05/24/2021

Project: Stanwood Demo. Bldg. 211-213 E. Broadway / Bldg. 211 +213 / 07207086 / Stanwood, Iowa 52337

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
1-RF4-01 *042112351-0001*	Southeast Corner of Building on Parapet Wall - Black/Gray/White Coating Build-up Roofing	Gray/White/Black Fibrous Homogeneous	10% Cellulose 5% Glass	85% Non-fibrous (Other)	<1% Chrysotile
1-RF4-02 *042112351-0002*	South End Center of Building Near Roof Edge - Black/Gray/White Coating Build-up Roofing	Black Fibrous Homogeneous	15% Cellulose	82% Non-fibrous (Other)	3% Chrysotile
1-RF4-03-Built Up Roofing *042112351-0003*	South End Center on Brick Parapet Bump-out - Black/Gray/White Coating Build-up Roofing	Black Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	<1% Chrysotile
1-RF4-03-Membrane *042112351-0003A*	South End Center on Brick Parapet Bump-out - Black/Gray/White Coating Build-up Roofing	Gray/White Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
2-RF8-04 *042112351-0004*	Southeast Corner Near Parapet Wall - Black/Gray with Brown Fibrous Insulation	Brown/Black Fibrous Homogeneous	10% Cellulose	82% Non-fibrous (Other)	8% Chrysotile
2-RF8-05 *042112351-0005*	South End Center Area Near Roof Edge - Black/Gray with Brown Fibrous Insulation	Brown/Black Fibrous Homogeneous	10% Cellulose	80% Non-fibrous (Other)	10% Chrysotile
2-RF8-06 *042112351-0006*	Southwest Side Near Parapet Wall - Black/Gray with Brown Fibrous Insulation	Brown/Black Fibrous Homogeneous	20% Cellulose	72% Non-fibrous (Other)	8% Chrysotile
2-RF8-07-White Coating *042112351-0007*	Southeast Corner Near Parapet Wall - Black/Gray/White Tar and Coatings	White Fibrous Homogeneous	25% Synthetic	75% Non-fibrous (Other)	None Detected
2-RF8-07-Built Up Roofing *042112351-0007A*	Southeast Corner Near Parapet Wall - Black/Gray/White Tar and Coatings	Black Fibrous Homogeneous	10% Cellulose	87% Non-fibrous (Other)	3% Chrysotile
2-RF8-08-White Coating *042112351-0008*	South End Center Area Near Bump-out - Black/Gray/White Tar and Coatings	White Fibrous Homogeneous	10% Synthetic	90% Non-fibrous (Other)	None Detected

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Project ID:	

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
2-RF8-08-Built Up Roofing *042112351-0008A*	South End Center Area Near Bump-out - Black/Gray/White Tar and Coatings	Gray/Black Fibrous Homogeneous	15% Cellulose	83% Non-fibrous (Other)	2% Chrysotile
2-RF8-09-White Coating *042112351-0009*	Southwest Corner Near Parapet Wall - Black/Gray/White Tar and Coatings	White Fibrous Homogeneous	15% Synthetic	85% Non-fibrous (Other)	None Detected
2-RF8-09-Built Up Roofing *042112351-0009A*	Southwest Corner Near Parapet Wall - Black/Gray/White Tar and Coatings	Black Fibrous Homogeneous	15% Cellulose	83% Non-fibrous (Other)	2% Chrysotile

Analyst(s)

Michelle Quach (5)
Mark Shuts (8)

Samantha Rundstrom, Laboratory Manager
or Other Approved Signatory

Initial report from: 06/01/2021 14:07:50

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Asbestos Bulk Sample and Chain of Custody Form

Bettendorf: 870 40th Ave., Bettendorf, IA
52722 (563) 355 0702

Lab Order ID: 042112351
Select a Laboratory:

Lab Location: HQ - Cinnaminson, NJ 101048-0

Page 1 of ____

Project Name:	Stanwood Demo. Bldg.	**Project Number:**	07207086	**Project Manager:**	James Baxter DNU as SM contact
Project Address:	211-213 E. Broadway	**City/State / Zip:**	Stanwood, Iowa 52337	**Email Results/Invoice/Sample Confirmation To:**	Steve.Mack@terracon.com James.Baxter@terracon.com
Site/Building:	Bldg. 211 + 213			**EMSL Login: Enter Customer Contact as:**	Kathy.Toft@terracon.com

Sample Identification HA – BS Code – Sample #	Sample Location Description	HA General Location	Material Description (Type; Color/Texture)	Quantity (SF, LF, Cubic Ft, Units)	NESHAP Classification[1]	Notes/Physical Condition[2]
1 - RF4 - 01	Southeast Corner of building on Parpet wall	Building 213 Roof and Building 211 Roof	Black/gray/white coating Build-up Roofing	~~700~~ 120 LF	F (C1) C2	G D (SD)
1 - RF4 - 02	South end Center of building Near roof edge					
1 - RF4 - 03	South end Center on brick Parpet bump-out					
2 - RF8 - 04	South east Corner near Parpet wall	Building 213 Build-up Roof	Black/gray with Brown fibious insulation	900 SF	F (C1) C2	G D (SD)
2 - RF8 - 05	South end, center area Near the roof edge					
2 - RF8 - 06	South west side, near Parpet wall					
2 - RF8 - 07	South east Corner near Parpet wall	Building 211 Build-up Roof	Black/gray/white tar + coatings	750 SF	F (C1) C2	G (D) (SD)
2 - RF8 - 08	South ~~end Center~~, center area Near Bump-out					
2 - RF8 - 09	South west Corner near Parpet wall					
- -					F C1 C2	G D SD
- -						
- -						
- -					F C1 C2	G D SD
- -						
- -						

RECEIVED EMSL CINNAMINSON, N.J. 2021 MAY 25 AM 10:40

Sampling Date: ~~[redacted]~~ May 24, 2021 **Collected by (print):** ~~[redacted]~~ Steven Mack **Inspector's Signature:** Steven Mack

Relinquished by: Steven Mack **Date/Time:** ~~[redacted]~~ 5/24/21 **Received by:** [illegible] **Date/Time:** 5-25-21 945

Analysis: PLM EPA 600/R-93/116 ☒ PLM 400 Point Count ☐ TEM ☐ Other _____

Turnaround Time: 3 Hrs ~~[redacted]~~ 24 Hrs ☐ 2 Days ☐ 3 Days ☒ 5 Days ☐ Other _____

Instructions:
Terracon ARMS: ☒ **Stop Positive:** ☐ **Number of samples:** 9

[1] F = Friable; C1 = Category I: packings, gaskets, asphaltic roofing products, resilient flooring; C2 = Category II Non-Friable: any materials other than Cat. I containing >1% asbestos

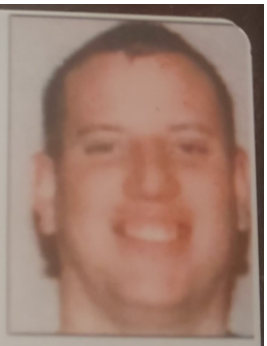
APPENDIX C

LICENSES

ALEXANDER DAVIS

DOB: 09-17-1990

Issued: 11-13-2020



This person is licensed to perform asbestos work in the State of Iowa. ID card is intended for official use only and must be present on jobsite.

License Type	Number	Expires
INSPECTOR	20-5247	10-15-2021
SUPERVISOR	20-5248	10-16-2021

DIVISION OF IOWA LABOR

Asbestos

Rod A. Roberts

Rod A. Roberts
Labor Commissioner

APPENDIX D

CONFRIMED ACM PHOTO LOG

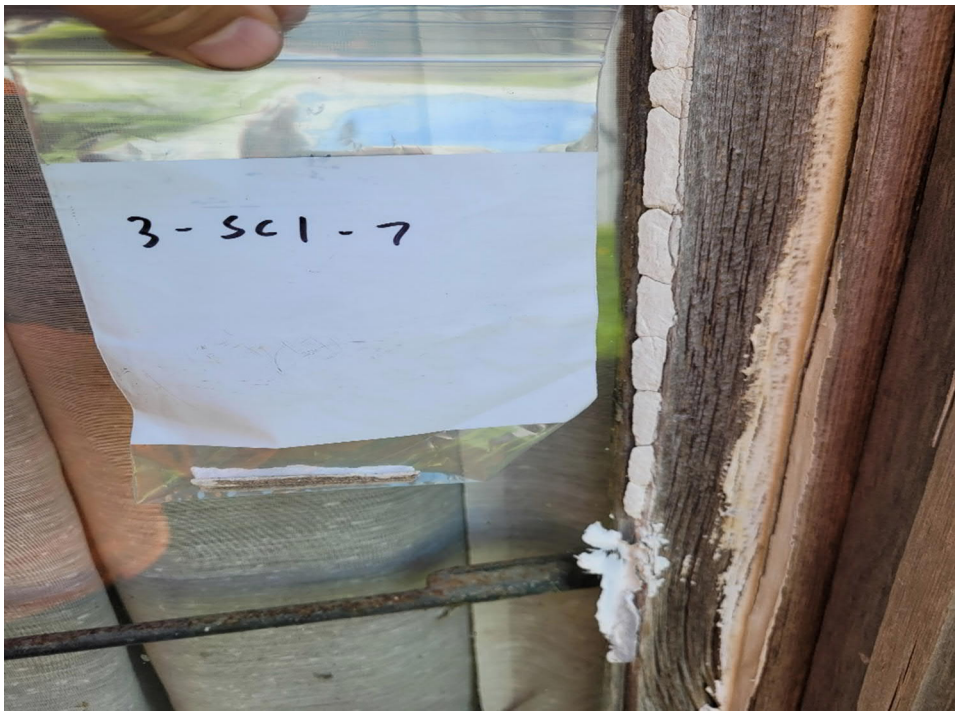


Photo 1: View of positive window glazing

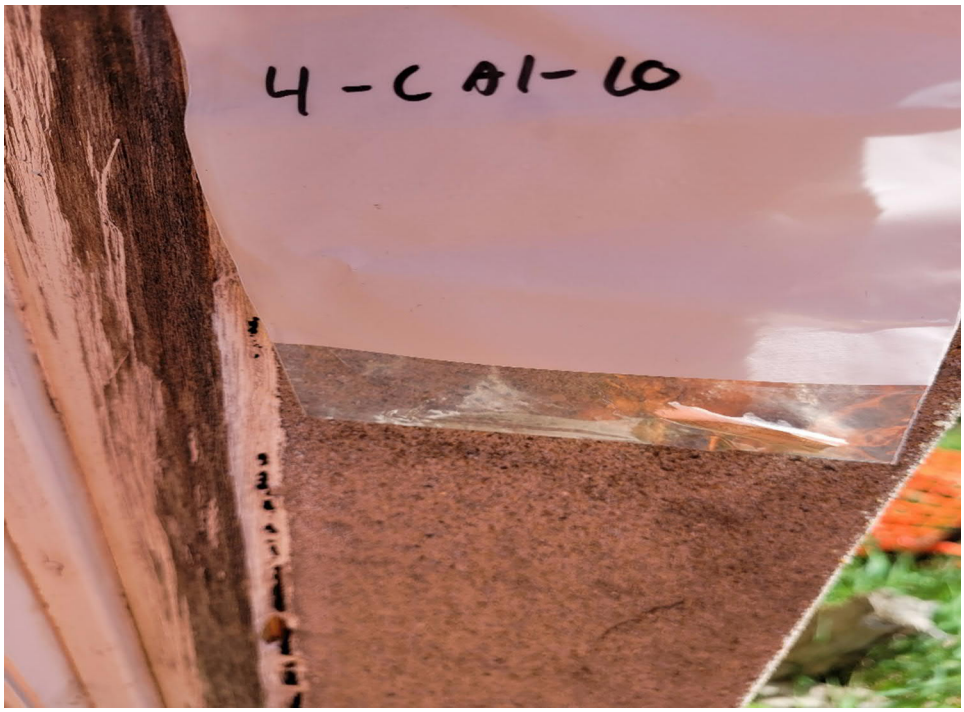


Photo 2: View of positive window caulking

Photo 3: View of positive vinyl sheet flooring in building 211 2nd floor north end apartment kitchen.

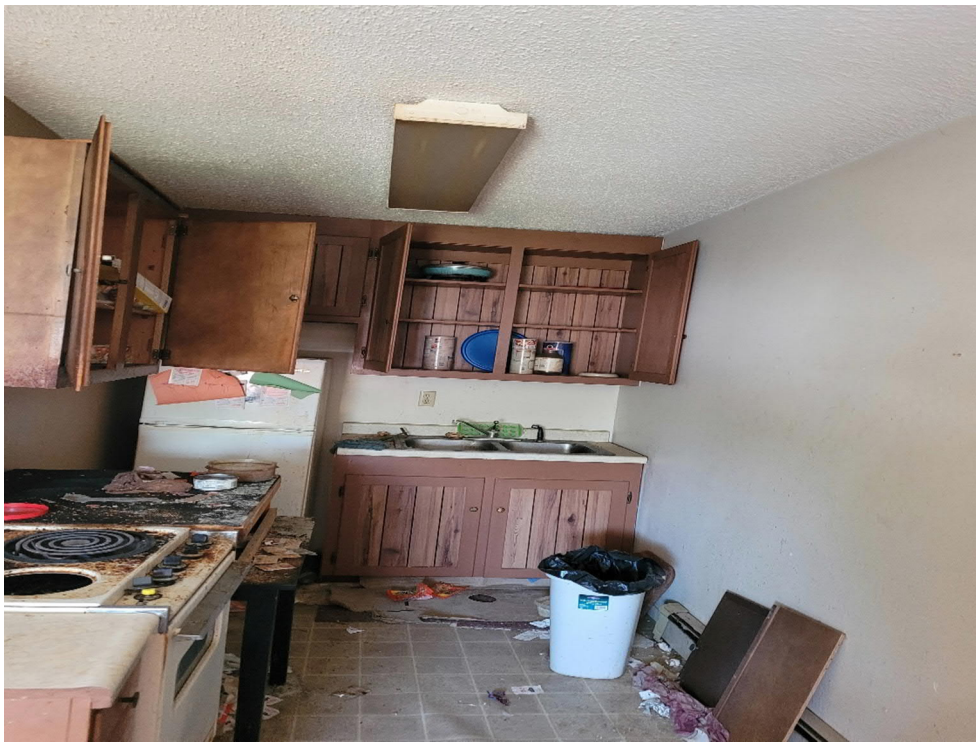


Photo 4: View of positive vinyl sheet flooring 2 layers in building 211 2nd floor south end apartment kitchen.

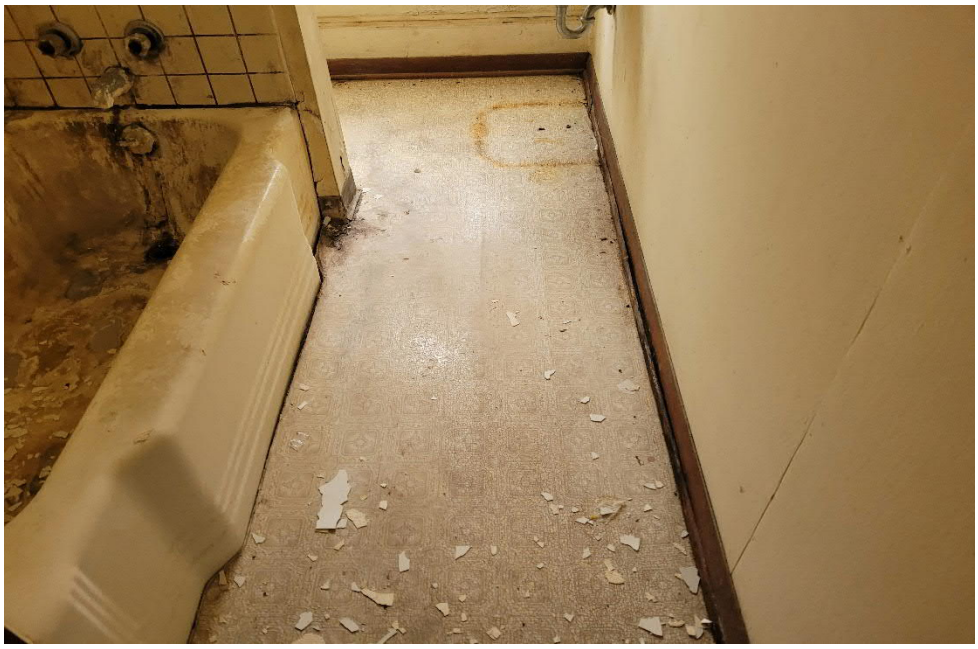


Photo 5: View of positive vinyl sheet flooring in bathroom of building 213 2nd fllor apartment.

Photo 6: View of positive terrazzo flooring in building 213 1st floor office space.

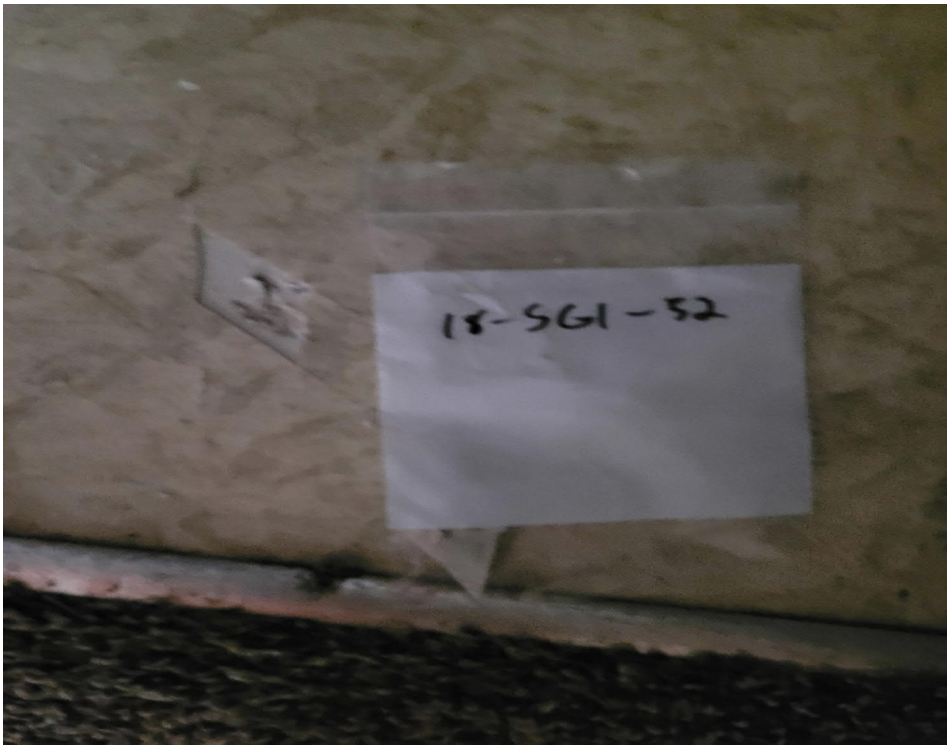


Photo 7: View of positive vinyl sheet flooring in building 211 1st floor east side office bathroom.

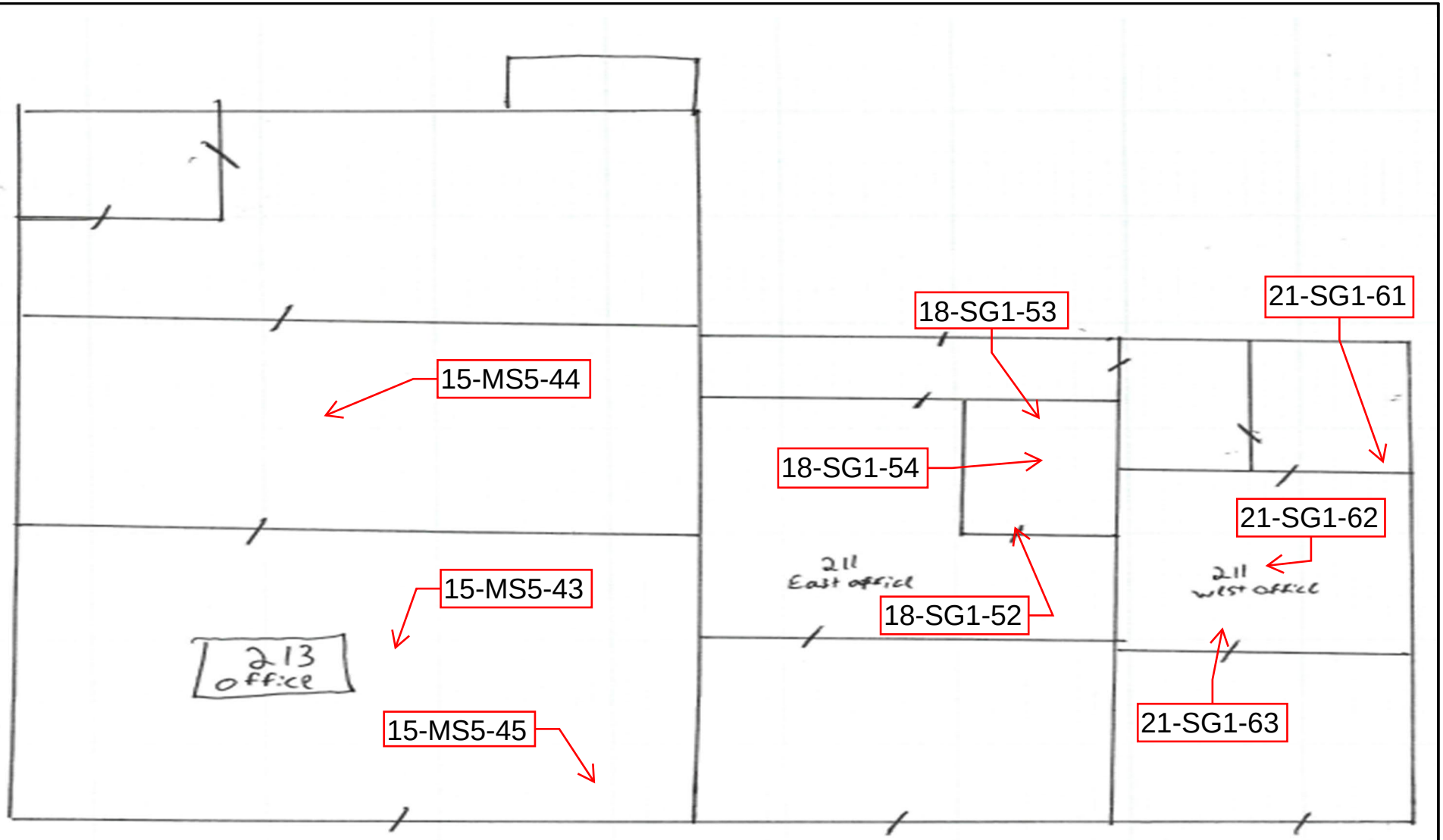
Photo 8: View of positive vinyl sheet flooring debris pile in building 211 1st floor west side office located in middle room and under carpet and shower.

Photo 9: View of positive roof decking and flashing throughtout both building roofs.

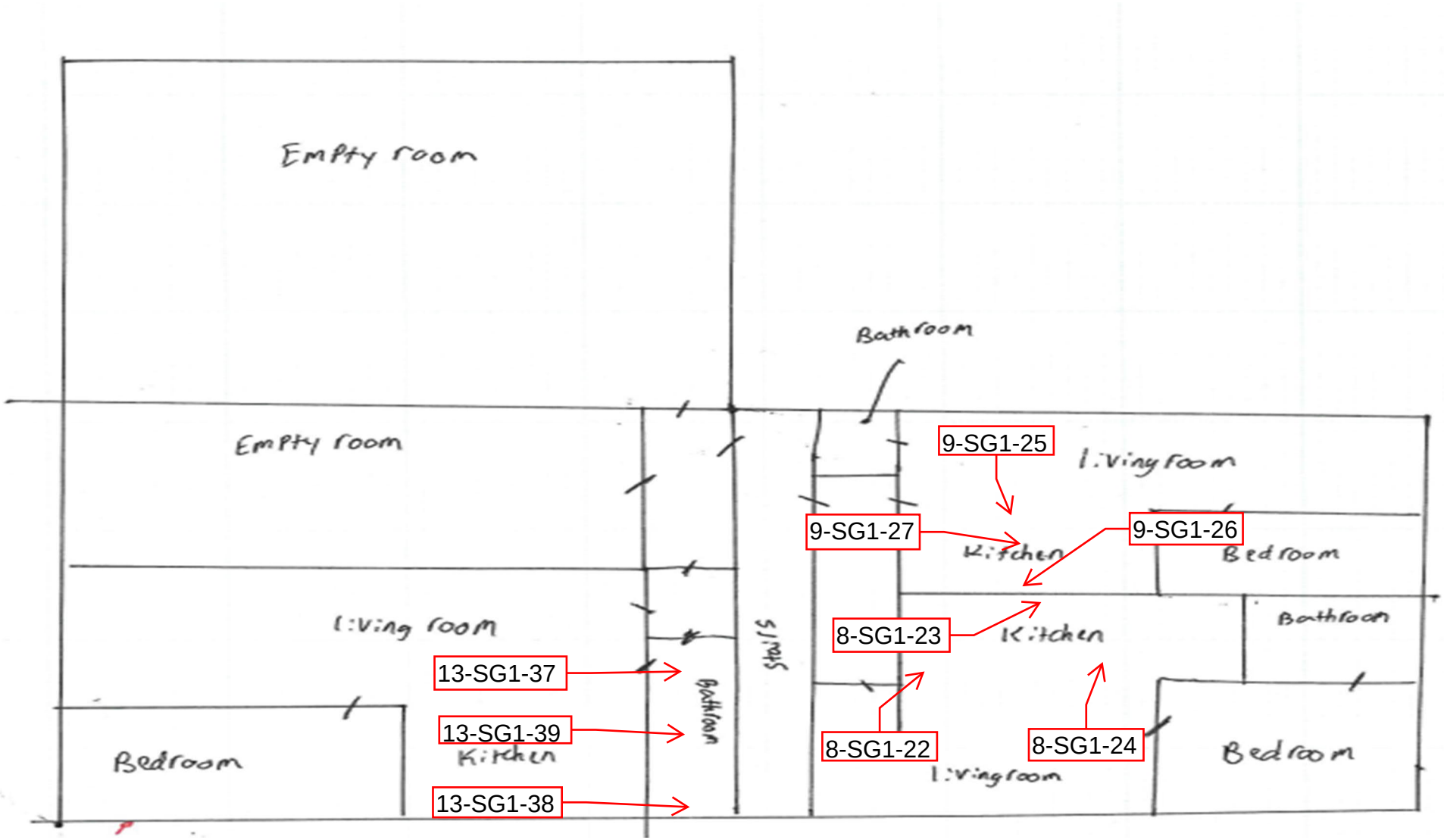
APPENDIX E

POSITIVE ACM LOCATIONS MAPS

E1 – POSTIVE SAMPLE LOCATION MAP 1F
E2 – POSITIVE SAMPLE LOCATION MAP 2F
E3 – POSITIVE SAMPLE LOCATION MAP ROOF



Project Manager: JRB	Project No. 07207086	Terracon Consulting Engineers & Scientists	POSITIVE SAMPLE LOCATION MAP 1F
Drawn by: AJD	Scale: Not To Scale	870 40th Avenue Bettendorf, Iowa 52722	211 AND 213 East Broadway Street STANWOOD, IOWA 52337
Checked by: JRB	File Name:	PH. (563) 355-0702 FAX. (563) 355-4789	Appendix E1
Approved by: JRB	Date: June 11 2021		



Project Manager: JRB	Project No. 07207086	Terracon Consulting Engineers & Scientists	POSITIVE SAMPLE LOCATION MAP 2F
Drawn by: AJD	Scale: Not To Scale	870 40th Avenue Bettendorf, Iowa 52722	211 AND 213 East Broadway Street STANWOOD, IOWA 52337
Checked by: JRB	File Name:	PH. (563) 355-0702 FAX. (563) 355-4789	Appendix E2
Approved by: JRB	Date: June 11 2021		

Project Manager: JRB	Project No. 07207086	Terracon Consulting Engineers & Scientists	POSITIVE SAMPLE LOCATION MAP ROOF
Drawn by: AJD	Scale: Not To Scale	870 40th Avenue Bettendorf, Iowa 52722	211 AND 213 East Broadway Street STANWOOD, IOWA 52337
Checked by: JRB	File Name:	PH. (563) 355-0702 FAX. (563) 355-4789	Appendix E3
Approved by: JRB	Date: June 11 2021		