

June 10, 2022

ADDENDUM NO. 1

FIRE STATION 2 BUILDING REMODEL

Notice is hereby given that the following additional information and changes shall become part of the specifications of the above referenced contract. You are to acknowledge the addenda on the Proposal Sheet.

1. Environmental Report (attached).
2. Pre-bid meeting sign in sheet (attached).
3. Building Permit allowance of \$3,000
4. Miscellaenous electrical rework per note 18 under general notes on sheet E1. To be invoiced time and material of \$4,000
5. Contact information for any additional walk thru's of station 2: Deputy Fire Chief David Wooden, dwooden@cityofjackson.org, 517-768-2702

END OF ADDENDUM



P.O. Box 13216
Lansing, MI 48901
Phone: 888.449.4566
Fax: 888.448.8739
www.redcedarconsulting.net

June 9, 2022

Dave Wooden
City Of Jackson
Fire Station #2
1906 S Milwaukee St.
Jackson, MI 49203

RE: *Limited Asbestos Containing Material Inspection*
1906 S Milwaukee St Jackson, MI
Parcel ID: Fire Station #2 (Ceiling Renovation)

Dear Mr. Wooden:

Red Cedar Consulting has completed a limited asbestos-containing material (ACM) inspection at 1906 S Milwaukee St., Jackson, Michigan (Subject Property). This inspection was completed at the request of the City of Jackson to comply with the United States Environmental Protection Agency (USEPA) requirements for demolition and renovation set forth under the National Emissions Standards for Hazardous Air Pollutants (NESHAP, 40 CFR Part 61). This inspection was also completed to comply with the Occupational Safety and Health Administration (OSHA) Asbestos Standards for Construction (29 CFR 1926.1101) which limits employee exposure to asbestos.

SUBJECT PROPERTY

The Subject Property is comprised of a commercial parcel which contains the City of Jackson Fire Station #2 office and dormitory building. Scheduled ceiling renovation work in the building and attached garage area for the summer of 2022 necessitated the completion of the inspection. Please note this was a limited inspection and only ceiling finishes and the areas above the ceiling tile were assessed during the completion of the inspection.

VISUAL INSPECTION AND SAMPLING

Asbestos Containing Materials Inspection

Mr. Aaron Paquet of Red Cedar Consulting (Red Cedar), an accredited State Of Michigan/EPA Asbestos Building Inspector (Accreditation Number A30955) whom completed training per the Michigan Asbestos Workers Accreditation Act 440 completed an inspection of the Subject Property on May 23, 2022 for suspected asbestos containing building materials.

This inspection, and subsequent sample collection was completed in accordance with the USEPA Asbestos Hazard Emergency Response Act (AHERA) (40 CFR Part 763) assessment and sampling protocol.

During the completion of the inspection, each area of the Subject Property was visually inspected for asbestos containing building materials (ACBM). Following the completion of the visual inspection, Red Cedar staff identified each suspect area of friable and non-friable ACBM and sorted them into one of three homogenous categories for sampling purposes. AHERA defines friable as a material that when dry, may be crumbled, pulverized, or reduced to powder by hand pressure. A homogenous area is defined by OSHA as an area of surfacing, thermal system insulation (TSI) or miscellaneous material that is uniform in color and texture. Surfacing materials are most commonly found in sprayed-on, troweled-on or otherwise applied to surfaces, such as acoustical plaster on ceilings and fireproofing materials on structural members. TSI refers to materials applied to pipes, fittings, boilers, ductwork, or other components to prevent heat loss or gain, or condensation. Any material that does not fall under the surfacing or TSI category, such as floor tile, drywall, and acoustical ceiling tile are placed into the miscellaneous materials category.

Following the completion of the visual inspection, Red Cedar staff identified the following materials as suspect ACBM:

- White 2x4 CT w/pinholes&fissures
- Insulation Paper
- Cellulose Insulation

Red Cedar staff collected six samples of suspect ACBM separated into three distinct homogenous groups for laboratory analysis. Samples were collected and submitted to APEX Research Inc. Laboratories (APEX) (Accreditation Number 102118-0) for laboratory analysis. Analysis was completed utilizing polarized light microscopy (PLM) which is the Environmental Protection Agency (EPA) approved method for analysis of bulk materials for asbestos. PLM analysis completed pursuant to method (EPA 600/M4-82-020) identifies asbestos fiber bundles by the visual properties displayed when the sample is treated with various dispersion staining liquids. The laboratory report completed following the sample analysis indicates if asbestos is present, and at what percentage along with a description and percentage of other fibrous and non-fibrous materials and sample color. Chain-of-custody documentation was followed from sample collection through shipping and receiving of the samples at the designated laboratory. The documentation assures that samples will meet the quality assurance/quality control measures defined by AHERA. The laboratory analytical report prepared by APEX for the six samples is included as Attachment A.

INSPECTION RESULTS AND RECOMMENDATIONS

During the completion of the asbestos inspection, six samples of suspect ACM were collected and are documented in Table 1 along with the Red Cedar sample number, description, friability, material type, ACM classification, sample location, material quantity and laboratory analytical results.

ACM, as defined by the USEPA NESHAP is “any material containing more than 1 percent asbestos as determined using the method specified in appendix E, subpart E, 40 CFR part 763 Section 1, Polarized Light Microscopy”.

Friable ACM is defined by NESHAP as any material containing more than 1 percent asbestos that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure. Friable ACM is a concern due the ease of unintentionally disturbing the ACM which may result in “visible emissions” which is known as a Fiber Release Episode.

Non-friable asbestos-containing material is defined as “material containing more than 1 percent asbestos that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure. Non-friable ACM’s are separated into Category I and Category II ACM. Category I ACM is any asbestos containing packing’s, gaskets, resilient floor coverings (vinyl floor tile and linoleum are examples of these) and asphalt roofing products. Category II ACM is stated by NESHAP as any material excluding Category I non-friable ACM such as drywall, plaster or fiberboard insulation.

Presumed Asbestos Containing Material

Presumed Asbestos Containing Materials (PACM) are suspect surfacing, TSI and miscellaneous materials found in buildings constructed prior to 1980 which are classified as and due to the age of the structure, are assumed to be ACM and do not require sample collection and analysis. OSHA dictates that PACM may be “rebutted” following a complete inspection pursuant to AHERA protocol.

No PACM was identified during the completion of this inspection. All suspect materials identified were sampled and analyzed for ACM.

Table 2 lists the location, material description, friability, condition, material type (surfacing, thermal or miscellaneous) and approximate quantity of all PACM documented at the Subject Property.

Table 3 provides a summary all ACM documented at the Subject Property which includes the material location, description, and approximate quantity.

Friable ACM’s

No friable ACM’s were identified during the completion of this inspection.

Category I ACM

No Category I ACM was identified during the completion of this inspection.

Category II ACM

No Category II non-friable ACM was identified during the completion of this inspection.

RECOMMENDATIONS

Asbestos Containing Materials

No ACM was identified within the Building that would require abatement prior to renovation of the structure.

Project No.: 22-1275
City of Jackson
Parcel ID: Fire Station #2

Please note: The location of samples obtained during this inspection were in a random fashion and areas that were not identified during this inspection may be damaged or have become damaged since the inspection was completed. If Category I or Category II friable materials are discovered prior to or during the demolition/renovation process, these materials must be abated prior to commencement of any demolition/renovation activities at the Subject Property.

REGULATORY REQUIREMENTS

A Notification of intent to Renovate/Demolish form must be filed with the Michigan Department of Environmental Quality- Air Quality Division at least 10 working days prior to any renovation or demolition activities at a site.

The Notification of Intent to Renovate/Demolish form must also be completed and submitted to the MIOSHA-Asbestos Program whenever demolition, encapsulation and/or renovation activities at a site involving greater than ten lineal feet and/or fifteen square feet of ACM will be completed.

Regulated asbestos containing materials per NESHAP (40 CFR Part 61) which falls into any of the following categories are ACM's that must be removed prior to any renovation/demolition activities at the Subject Property.

- Friable asbestos material.
- Category I non-friable ACM that has become friable.
- Category I non-friable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading.
- Category II non-friable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of renovation or demolition operations.

Asbestos abatement should only be performed by a certified asbestos abatement contractor licensed to complete abatement work. The contractor must also follow the standards and requirements set forth per the OSHA Asbestos Standards for Construction (29 CFR 1926.1101) and the USEPA NESHAP (40 CFR Part 61).

Additional information regarding the OSHA Asbestos Standards for Construction (29 CFR 1926.1101) and the USEPA NESHAP (40 CFR Part 61) can be obtained by contacting the associated agency below.

NESHAP Asbestos Program
Department of Environmental Quality
Phone: 517-284-6777

MIOSHA-CSHD-Asbestos Program
State of Michigan
Phone: 517-284-7680
Email: asbestos@michigan.gov

Project No.: 22-1275
City of Jackson
Parcel ID: Fire Station #2

DISCLAIMER

Red Cedar Consulting performed destructive testing methods in an attempt to access and inspect all areas of the Building. Unfortunately, due to the age of construction along with multiple additions/renovations that may have been completed on the Building, additional inspections may be required if suspect ACM material not documented within this report is encountered during renovation/demolition activities.

This report was prepared at the request and for exclusive use by the City of Jackson and may not be reproduced or sold without written permission from Red Cedar Consulting.

We appreciate the opportunity to provide the requested services. Please contact us at (888) 449-4566 with any questions or concerns.

Sincerely,
Red Cedar Consulting



Aaron Paquet
Michigan/EPA Certified Asbestos Building Inspector
(A30955)

Red Cedar Consulting

Attachment A
APEX Research Laboratory Analytical Results

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
 Project : 1906 S. Milwaukee St.



Report To:

Mr. Aaron Paquet
 Red Cedar Consulting
 P.O. Box 13216
 Lansing, MI 48901

ARI Report # 22-99841
 Date Collected: 05/23/22
 Date Received: 05/25/22
 Date Analyzed: 05/26/22
 Date Reported: 05/31/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99841 - 01 Cust. #: MS-HM-01A Material: White 2x4 CT w/ Pin/Fissures Location: Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 40% Mineral Wool - 30% Other - 30%
Lab ID #: 99841 - 02 Cust. #: MS-HM-01B Material: White 2x4 CT w/ Pin/Fissures Location: Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 40% Mineral Wool - 30% Other - 30%
Lab ID #: 99841 - 03 Cust. #: MS-HM-02A Material: Insulation/Paper Location: Appearance: pink, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Fiberglass - 50% Other - 30%

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

Robert T. Letarte Jr., Laboratory Director

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



NVLAP Lab Code 102118-0

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

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
 Project : 1906 S. Milwaukee St.



Report To:

Mr. Aaron Paquet
 Red Cedar Consulting
 P.O. Box 13216
 Lansing, MI 48901

ARI Report # 22-99841
 Date Collected: 05/23/22
 Date Received: 05/25/22
 Date Analyzed: 05/26/22
 Date Reported: 05/31/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99841 - 04 Cust. #: MS-HM-02B Material: Insulation/Paper Location: Appearance: pink, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 15% Fiberglass - 50% Other - 35%
Lab ID #: 99841 - 05 Cust. #: MS-HS-03A Material: Cellulose Insulation Location: Appearance: yellow, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Fiberglass - 70% Other - 10%
Lab ID #: 99841 - 06 Cust. #: MS-HS-03B Material: Cellulose Insulation Location: Appearance: yellow, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Fiberglass - 70% Other - 10%

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

Robert T. Letarte Jr., Laboratory Director

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



NVLAP Lab Code 102118-0

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

APEX Research, Inc.

11054 Hi-Tech Drive, Whitmore Lake, MI 48189
 Phone: 734-449-9990
 E-mail: apexresearch@chartermi.net
 Fax: 734-449-9991



Client Name: Red Cedar Consulting

Address: PO Box 13216
 Lansing, MI 48901

City, St., Zip: Lansing, MI 48901

Phone: (888) 449-4566 Fax: (888) 448-8739

Date of Survey: 5-23-22

Project: 1906 S. Milwaukee St.

Project #:

Contact Person: Aaron Paquet

Lab Use Only
 Log-In _____
 Report _____

Turn Around Times: (Circle One)

PLM EPA 600, PC all samples with a detection of <5% ACM. Labdata@redcedarconsulting.net

Rush 24 hour

48 hour **72 hour**

Other: **TTP** All Samples

Asbestos: Bulk Wipe _____ Point Count _____ PCM _____

Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____

Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____

TEM: AHERA 7400 Bulk/NOB _____ EPA Level II _____

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
	MS-440-01A	White 2x10 ft w/ phal fissures			
	01B	" "			
	02A	Insulation / Paper			
	02B	" "			
	03A	Cellulose Insulation			
	03B	" "			
RECEIVED					
MAY 25 2022					
APEX RESEARCH					

Relinquished by: *[Signature]*

Received by: *[Signature]*

Date: 5-24-22

Date: 5-24-22

Relinquished by: _____

Received by: *[Signature]*

Date: _____

Date: 1100

Tables

Table 1 - Summary of Sample Descriptions and Asbestos Laboratory Results, 1906 S Milwaukee St., Jackson, Michigan

Sample Number	Sample Description	Friable	Material Type	Material Classification	% Asbestos Laboratory Result	Sample Location	Approx. Material Quantity
MS-HM-01A	White 2x4 CT w/pinholes&fissures	Yes	M	Category II	ND	Lounge Area Ceiling	NA
MS-HM-01B	White 2x4 CT w/pinholes&fissures	Yes	M	Category II	ND	Sleeping Area Ceiling	NA
MS-HM-02A	Insulation/Paper	Yes	M	Category II	ND	Lounge Area Ceiling	NA
MS-HM-02B	Insulation/Paper	Yes	M	Category II	ND	Truck Bay 2 Ceiling	NA
MS-HM-03A	Cellulose Insulation	Yes	M	Category II	ND	Truck Bay 2 Ceiling	NA
MS-HM-03B	Cellulose Insulation	Yes	M	Category II	ND	Truck Bay 2 Ceiling	NA

Notes:

Material Types

M = Miscellaneous building material
 TSI = Thermal System Insulation
 S = Surfacing Material
 PC = Point Count Analysis
 CH = Chrysotile Asbestos

Abbreviations

NQ = Not quantified
 NA = Not Analyzed
 ND = Not detected. Laboratory result is less than 1 % asbestos
 lin. ft. = linear feet
 sq. ft. = square feet

Asbestos Containing Material (ACM) is defined as any material containing more than 1 percent asbestos as determined utilizing Polarized Light Microscopy.

Table 2 - Summary of Presumed Asbestos Containing Materials, 1906 S Milwaukee St., Jackson, Michigan

Asbestos Containing Material Description and Location					
Location	Material Description	Friable	Condition	Material Type	Approx. Quantity
No Presumed Asbestos Containing Materials Identified					

Notes:

Material Types

M = Miscellaneous building material
 TSI = Thermal System Insulation
 S = Surfacing Material

Abbreviations

lin. ft. = linear feet
 sq. ft. = square feet

Table 3 - Summary of All Asbestos Containing Materials, 1906 S Milwaukee St., Jackson, Michigan

Exterior - Asbestos Containing Materials			
Location	Material Description	Friable	Approx. Quantity
No Asbestos Containing Materials Identified			

Notes:

Abbreviations

lin. ft. = linear feet
 sq. ft. = square feet

Shaded/Bolded = Friable ACM and any Category I and Category II non-friable ACM that has a high probability of becoming crumbled, pulverized, or reduced to powder by the demolition or renovation activities that must be properly abated prior to commencement of any demolition/renovation activities.

Demolition/renovation activities completed with intact Category I non-friable ACM are regulated by OSHA and must be completed following the OSHA Asbestos Standards for Construction (29 CFR 1926.1101) which limits employee exposure to asbestos.

Please note that a Negative Pressure Enclosure must be utilized during abatement when Site Conditions Warrant. Examples of these conditions include the abatement of Plaster and Vermiculite insulation, HVAC Duct Wrap in Poor Condition, and Air-O-Cell/Mag Pipe Wrap. Conditions outside of these should be assessed on a case by case basis during the Asbestos Abatement Contractors site walk and Work Plan Preparation.

Pre-Bid Meeting Attendees

This pre-bid meeting is:

- NOT mandatory
 MANDATORY

Pre-bid meeting for:

Fire Station 2 Building Remodel

NAME OF CONTRACT

June 7, 2022; 9:00am

DAY, DATE AND TIME

ALL PEOPLE IN ATTENDANCE OF THE ABOVE MENTIONED PRE-BID MEETING MUST REGISTER BELOW. PLEASE PROVIDE THE INFORMATION REQUESTED. PLEASE WRITE LEGIBLE.

NAME	COMPANY	PHONE	EMAIL ADDRESS	WE WILL BE BIDDING AS A:	
				GENERAL CONTRACTOR	SUB-CONTRACTOR
Shelly Allard	City of Jackson	517-788-4020	sallard@cityofjackson.org		
Gary Wilkse	Wilkse Electric	734-878-5447	Weslgary@yahoo.com		<input checked="" type="checkbox"/> Electrical
Damani Wallace	DCR Services	566-211-2098	DWallace@dcr-services.com	<input checked="" type="checkbox"/>	
Ryan Schonhard	R.W. Mercer	517 581-5854	Ryan.Schonhard@rsmercer.com	<input checked="" type="checkbox"/>	
TOBY JONES	JONES CONST. SOLUTIONS	517.748.1888	toby@jonesconstructionsolutions.com	<input checked="" type="checkbox"/>	
Tom Friar	Marroe Plumbing	734-241-4277	tomf@marroeplumbing.com	<input checked="" type="checkbox"/>	
JASON COON	C GA	517.766.6260	Jason@CONCRETEGROUPRESEARCH.COM		<input checked="" type="checkbox"/>