

Asbestos Inspection Report

For

**Commercial Buildings
102 & 103 E. 3rd Street
Brocton, IL 61917**



Prepared By

**KAM
SERVICES**

KAM Services, Inc.

601 Broadway Ave., Suite 2

P.O. Box 1515

Mattoon, Illinois 61938

(217) 235-9537

Prepared For

Mr. Dennis Cary, Mayor

Village of Brocton

201 S. Boyer Street

Brocton, IL 61917

June 2, 2016

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ASBESTOS INSPECTION REPORT

COMMERCIAL BUILDINGS

101 & 103 E. 3RD STREET

BROCTON, IL 61917

JUNE 2, 2016

Introduction

KAM Services, Inc. (KAM) was retained by Mr. Dennis Cary, Mayor of the Village of Brocton to conduct an asbestos inspection of the Commercial Buildings located at 101 and 103 E. 3rd Street in Brocton, Illinois. On June 2, 2016, KAM performed an asbestos inspection and sampling of the abandon commercial buildings. It noted that both buildings were in poor condition with the roofs being partially collapsed. The primary purpose of the asbestos inspection was to identify asbestos containing materials (ACM) prior to the planned demolition of the structure. The asbestos inspection was performed by Mark E. Mitchell, IDPH License #100-00360 (See Appendix B for credentials).

An asbestos survey is required by the United States Environmental Protection Agency (USEPA) to maintain compliance with the National Emission Standards for Hazardous Air Pollutants (NESHAP). As of November 20, 1990, the building owner/operator is required to have completed an asbestos survey prior to renovation or demolition. Renovation means altering a facility or one or more facility components in any way or including the stripping or removal of a regulated asbestos containing material (RACM) from a facility component. Demolition means the wrecking or taking out of any load-supporting structural member of a facility together with any related handling with operations or the intentional burning of any facility. An asbestos-containing material (ACM), is defined by the Asbestos NESHAP, as any material containing greater than one percent (1%) asbestos as determined using the method specified in Appendix A, Subpart F, 40 CFR Part 763, Section 1, Polarized Light Microscopy (PLM).

Narrative Description

It is estimated that the commercial building located at 101 E. 3rd Street was constructed around 1910 and is approximately 3,020 square feet. The building consists of a first and second floor. The predominate construction type is masonry and wood frame construction. The exterior of the building is brick and it has a flat built-up roof. The building was previously heated by a gas forced air furnace and cooled by central air system.

It is estimated that the commercial building located at 101 E. 3rd Street was constructed around 1920 and is approximately 8,220 square feet. The building consists of a first and second floor. The predominate construction type is masonry and wood frame construction. The exterior of the building is brick and it has a flat built-up roof. The building was previously heated by a gas forced air furnace and cooled by central air system.

General Comments

The asbestos survey was conducted in a manner consistent with the level of care and skill ordinarily exercised by experienced and knowledgeable professionals who are appropriately licensed and trained to perform asbestos building inspections. KAM used due diligence in inspecting the building and sampling suspect ACM's. The inspection did not include the demolition or dismantling of walls in order to inspect these types of inaccessible areas. The results, findings, conclusions and recommendations expressed in this report are based on conditions observed during our survey of the building. The information contained in this report is relevant to the date on which this survey was performed, 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 the Owner for specific application to their project. This report is not a bidding document. Contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or if remediation is deemed necessary. KAM Services, Inc. does not warrant the work of regulatory agencies, laboratories or other third parties supplying information which may have been used in the preparation of this report. No warranty, express or implied is made.

Scope of Work

Inspection and sampling procedures were performed in general accordance with the guidelines published by the USEPA in Title 40, Code of Federal Regulations (CFR), Part 61, Subpart M, November 20, 1990, as amended, the Asbestos Hazard Emergency Response Act (AHERA) 40 CFR Part 763 Subpart E, as well as guidelines published by OSHA Standard 29 CFR 1910.1001 and 29 CFR 1926.1101.

The inspection consisted of three major activities: visual inspection, sampling, and reporting. An inspector accredited by the USEPA and licensed by the IDPH performed the asbestos building inspection. An initial building walkthrough was conducted to determine the presence of suspect materials that were accessible or could be exposed through minimal hand demolition. The inspector determined areas of the suspect materials that were visually similar in color, texture, general appearance, and which appeared to have been installed at the same time. Such materials are termed "homogeneous areas" by the USEPA.

Following the USEPA inspection protocol, each identified suspect homogeneous area was given one of the following USEPA designations:

Surfacing Materials - materials sprayed or troweled to building members.

Thermal System Insulation - materials generally applied to various mechanical systems.

Miscellaneous Materials - any materials which do not fit either of the above designations.

Following the preliminary walkthrough, the inspector collected the appropriate number of samples from each homogeneous area in accordance with approved regulatory guidelines

based on the type and quantity of each material. Samples were collected using a homogeneous area designation and a sequential numbering scheme (i.e., the second sample taken from the ceiling tile was identified as MCA-2). The SACM's were misted with amended water to prevent a fiber release, carefully cut with a utility knife or coring tool and placed in a sealed "whirl-pak" plastic bag.

The twenty-one (21) bulk samples that were collected on 06/02/2016, were shipped under strict chain of custody protocol to EMSL Analytical, Inc. in Indianapolis, Indiana for Polarized Light Microscopy (PLM) analysis with dispersion staining methods. PLM analysis is described by the interim method of the determination of asbestos in bulk insulation, Federal Register, Volume 47, No. 103, May 27, 1982. This is a standard method of analysis in optical mineralogy and the currently specified method for the determination of asbestos in bulk samples in Appendix A, Subpart F, 40 CFR Part 763, Section 1. A suspect material is immersed in a solution of a known refractive index and subjected to illumination by polarized light. The characteristic color is displayed which enables mineral identification.

It should be noted that some ACM's might not be accurately identified and/or quantified by PLM. As an example, the original fabrication of vinyl floor tiles routinely involved milling of asbestos fibers to extremely small sizes. Consequently, these fibers may go undetected under the standard polarized light microscopy method. Transmission Electron Microscopy (TEM) would be required for a more definitive analysis of these types of materials.

Identification of Suspect Materials

The following suspect ACM's were identified during the inspection.

101 E. 3rd Street

Homogeneous Area	Material Description	Samples Collected	Lab Results
101-SPA	Hard Plaster	3	None Detected
101-MCA	2'x2' Ceiling Tile	2	None Detected
101-MMA	Built-up Roofing	2	2% Chrysotile
101-MMB	Window Caulk	2	<1% Chrysotile
101-MXA	Drywall Board	2	None Detected
Total Samples Collected		11	

103 E. 3rd Street

Homogeneous Area	Material Description	Samples Collected	Lab Results
103-SPA/A	Hard Plaster (Finish Coat)	3	None Detected
103-SPA/B	Hard Plaster (Base Coat)	3	None Detected
103-MMA	Built-up Roofing	2	2-5% Chrysotile

Homogeneous Area	Material Description	Samples Collected	Lab Results
103-MXA	Drywall Board	2	None Detected
Total Samples Collected		10	

- 1) Composite samples were taken of the plaster.
- 2) Sample appearance in the field may vary from laboratory appearance.

Results of Laboratory Analysis

Sampling results indicate that two (2) of the sampled materials are considered ACM by the USEPA. Please refer to (Appendix A - Laboratory Analysis) for further detail. When sampling results indicate or assume that a material is an ACM, the material is categorized as follows:

Asbestos-Containing Material (ACM) - is any material containing more than one percent asbestos as determined by USEPA-approved methods.

Regulated Asbestos-Containing Material (RACM) - any of the following:

1. Friable asbestos material is any material containing more than one percent asbestos that, when dry, can be crumbled, pulverized or reduced to powder by hand pressure.
2. Category I non-friable ACM that has become friable or that will be or has been subjected to sanding, grinding, cutting or abrading.
3. 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 demolition or demolition operations.

Category I Non-friable Asbestos-Containing Material - asbestos-containing packings, gaskets, resilient floor coverings and asphalt roofing.

Category II Non-friable Asbestos-Containing Material - any material, excluding Category I non-friable ACM's, that when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

The following table identifies the ACM's by homogeneous area, material description, USEPA Category, location and estimated quantity.

101 E. 3rd Street

Homo. Area	Material Description	USEPA Category	Location	Estimated Quantity
101-MMA	Built-up Roofing	Category I Non-Friable	Exterior Roof	4,110 s.f.

Homo. Area	Material Description	USEPA Category	Location	Estimated Quantity
103-MMA	Built-up Roofing	Category I Non-Friable	Exterior Roof	1,510 s.f.

- 1) Quantities are approximate and should be field verified.
- 2) Laboratory differentiated layers within the original sample of the plaster.
- 3) The built-up roofing has been installed on a wood roof deck.

Recommendations

- **Notification** - In accordance with 40 CFR 61.145(b), building owners are required to submit a 10-day notification prior to renovation and/or demolition projects, regardless of the presence of RACM's, to the Illinois Environmental Protection Agency (IEPA). Notification must be made on forms approved by IEPA. The Illinois Commercial & Public Building Act requires building owners to submit a 2-day notification prior to friable asbestos abatement projects ranging in size from 3 square feet/3 linear feet to 160 square feet/260 linear feet.

It should be noted that some municipalities have permit fees or other regulations regarding asbestos abatement and/or demolition activities. A person should check with local authorities prior to demolition/renovation activities.

- **RACMs** - No RACM's were identified during the asbestos survey. RACM's must be properly removed by a licensed asbestos abatement contractor prior to demolition and prior to renovation if the materials are to be disturbed. In the event any additional RACM's are discovered in the demolition debris, they must be properly removed and disposed of by a licensed asbestos abatement contractor in accordance with applicable regulations.

According to USEPA Title 40 CFR Part 61.145 © (iii): An RACM need not be removed before demolition if it was not accessible for testing and was, therefore, not discovered until after demolition began and, as a result of the demolition, the material cannot be safely removed. If not removed for safety reasons, the exposed RACM and any asbestos contaminated debris must be treated as asbestos containing waste and adequately wet at all times until properly disposed at a landfill approved to accept asbestos containing waste.

- **Category I Non-friable ACM's** - A total of two (2) Category I Non-Friable ACM's were identified during the asbestos survey. Generally, these materials do not have to be removed prior to building renovation and/or demolition, unless the materials are made friable by those operations. In addition, materials which are adhered to substrates not intended for recycling (e.g., wood) need not be removed prior to building demolition and can be taken to an approved landfill as general construction debris. Operations such as power chipping, grinding, abrading, cutting or drilling

could make the materials friable. If these operations are likely to occur, the materials must be properly removed. If the materials are attached to a subbase such as concrete/masonry and/or metal products that are scheduled to be recycled, the materials must be properly removed prior to recycling. At the present time, the EPA does not allow either Category I or II non-friable demolition debris to go to any recycling facility that will sand, grind, cut or abrade it or otherwise turn it into RACM waste. Recycling facilities which cause non-RACM waste to become RACM waste are subject to the provisions of the asbestos NESHAP regulation.

Intact removal may be performed by non-licensed personnel if the employer of these personnel is prepared to meet applicable OSHA requirements. Gross removal must be performed by an Illinois Department of Public Health (IDPH) licensed contractor using licensed supervisors and workers.

The IEPA prefers the use of rubber-tread track-hoes for demolition procedures which involve driving on or parking over any Category I non-friable materials. Adequate water must also be utilized at the site to minimize fugitive emissions during demolition.

- **Category II Non-friable ACM's** - No Category II Non-Friable ACM's were identified during the asbestos survey. These materials must be properly removed prior to demolition since it likely to render the material friable RACM. The materials are required to be removed prior to renovation if the materials are to be disturbed.

Intact removal may be performed by non-licensed personnel if the employer of these personnel is prepared to meet applicable OSHA requirements. Gross removal must be performed by an Illinois Department of Public Health (IDPH) licensed contractor using licensed supervisors and workers in accordance with applicable regulations as administered in the State of Illinois.

In the event additional Category II Non-Friable ACM's are discovered in the demolition debris, they must be properly removed and disposed of by a licensed asbestos abatement contractor in accordance with applicable regulations as administered in the State of Illinois.

- **Work Procedures** - (In the event ACM's are identified in the demolition and/or renovation debris). Removal of ACM's shall be conducted in accordance with NESHAP regulations 40 CFR 61, Subpart M; OSHA regulations 29 CFR 1926.1101 and Illinois Commercial & Public Building Act, Subpart D. Asbestos containing building materials (ACBM's) may be temporarily stored at the work area until completion of the abatement project. Temporarily stored ACBM's shall meet the waste storage requirements of NESHAP regulations 40 CFR 61, Subpart M. At the conclusion of the abatement project, all temporarily stored ACBM's shall be removed from the work area and transported to a regulated landfill location approved for disposal of asbestos-containing waste.
- **Intentional Burning** - As stated in the November 1990 asbestos NESHAP revision CFR (see 61.145(c)(10)): If a facility is demolished by intentional burning, all

RACM, including Category I and Category II non-friable ACM, must be removed in accordance with the NESHAP before burning. Abandoned buildings utilized by fire departments for practice exercises involving burning are subject to this requirement. A permit must be obtained from all applicable federal, state and local agencies prior to commencing with the open burning.

- **Clearance Air Monitoring (projects greater than 3 square feet/3 linear feet) -** After the completion of the final clean and when all surfaces in the work area are dry, the contractor, the building owner or the building owner's designee shall inspect the work for visible residue. If the area is clear of residue, the contractor, the building owner or the building owner's designee shall notify an air sampling professional that the work area is ready for clearance air monitoring. Air sampling shall be conducted by an air sampling professional. The air sampling professional is allowed to use Phase Contrast Microscopy (PCM) for clearance air monitoring in public and commercial buildings in lieu of Transmission Electron Microscopy (TEM).

Required Samples:

A minimum of two samples shall be collected for areas up to 1,000 sq. ft.

A minimum of five samples shall be collected for areas larger than 1,000 sq. ft. but not exceeding 50,000 sq. ft.

One additional sample shall be collected for every 10,000 sq. ft. exceeding 50,000 sq. ft.

Each sample result shall be less than or equal to 0.01 f/cc. If the air sampling results indicate a concentration of airborne asbestos fibers in excess of the clearance criteria, the contractor shall not be released until the contained area meets clearance criteria.

The building owner shall give a copy of the test results to the contractor and retain a copy for its records for three years.

- **Asbestos Competent Person -** In Section 17 of the IEPA notification form, the owner/operator must certify that at least one representative, trained in the provisions of 40 CFR 61 Subpart M (i.e., NESHAP-Asbestos), is on-site during demolition. The representative must carry on his/her person evidence that such training has been completed.

APPENDIX A

LABORATORY ANALYSIS



EMSL Analytical, Inc.

2001 East 52nd St. Indianapolis, IN 46205
Tel/Fax: (317) 803-2997 / (317) 803-3047
<http://www.EMSL.com> / indianapolislab@emsl.com

EMSL Order: 161609643
Customer ID: KAM62
Customer PO:
Project ID:

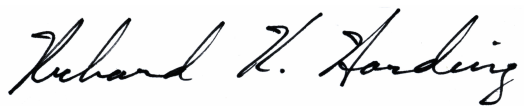
Attention: Mark Mitchell
KAM Services, Inc.
601 Broadway Ave, Suite 2
PO Box 1515
Mattoon, IL 61938
Project: COMMERCIAL BUILDING, 101 E. 3RD STREET, BROCTON IL 61917 / 16-1065

Phone: (217) 235-0298
Fax: (217) 235-0299
Received Date: 06/03/2016 10:20 AM
Analysis Date: 06/08/2016
Collected Date:

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
101-SPA1 <small>161609643-0001</small>	hard plaster	Gray Non-Fibrous Homogeneous	<1% Hair	20% Quartz 80% Non-fibrous (Other)	None Detected
101-SPA2 <small>161609643-0002</small>	hard plaster	Gray Non-Fibrous Homogeneous	<1% Hair	20% Quartz 80% Non-fibrous (Other)	None Detected
101-SPA3 <small>161609643-0003</small>	hard plaster	Gray Non-Fibrous Homogeneous	<1% Hair	20% Quartz 80% Non-fibrous (Other)	None Detected
101-MCA1 <small>161609643-0004</small>	2'x4' ceiling tile	Brown/White Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
101-MCA2 <small>161609643-0005</small>	2'x4' ceiling tile	Brown/White Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
101-MMA1 <small>161609643-0006</small>	built up roof	Black Non-Fibrous Heterogeneous	10% Cellulose	88% Non-fibrous (Other)	2% Chrysotile
101-MMA2 <small>161609643-0007</small>	built up roof	Black Fibrous Homogeneous	20% Cellulose	78% Non-fibrous (Other)	2% Chrysotile
101-MMB1 <small>161609643-0008</small>	window caulk	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
101-MMB2 <small>161609643-0009</small>	window caulk	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
101-MXA1 <small>161609643-0010</small>	drywall board	Brown/White Fibrous Heterogeneous	20% Cellulose	70% Gypsum 10% Non-fibrous (Other)	None Detected
101-MXA2 <small>161609643-0011</small>	drywall board	Brown/White Fibrous Heterogeneous	20% Cellulose	70% Gypsum 10% Non-fibrous (Other)	None Detected

Analyst(s) _____
Jadda Moffett (6)
Melissa Newkirk (5)


Richard Harding, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%
Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0, AZ0939, CA 2575, CO AL-15132, TX 300262

Initial Report From: 06/08/2016 09:41:13



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

161609643

EMSL Analytical, Inc.
2001 East 52nd Street
Indianapolis, IN 46205
Phone: (317) 803-2997
Fax: (317) 803-3047

Company:	KAM Services, Inc.	Bill To:	KAM Services, Inc. (KAM62)
Address1:	601 Broadway Ave., Suite 2	Address1:	601 Broadway Ave., Suite 2
Address2:	P.O. Box 1515	Address2:	P.O. Box 1515
City, State:	Mattoon, IL	City, State:	Mattoon, IL
Zip/Post Code:	61938	Zip/Post Code:	61938
Country:	USA	Country:	USA
Contact Name:	Mark E. Mitchell	Attn:	Kyndall R. Edwards
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Fax:	(217) 235-0299	Fax:	(217) 235-0299
Email:	markm@kamservicesinc.com	Email:	kyndalle@kamservicesinc.com
U.S. State Samples Taken	IL	Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> E-mail <input type="checkbox"/> Mail	
Project Name/Number:	Commercial Building, 101 E. 3 rd Street, Brocton, IL 61917 / 16-1065		

MATRIX			TURNAROUND TIME (TAT) Options* - Please Check			
<input type="checkbox"/> Air	<input type="checkbox"/> Soil	<input type="checkbox"/> Micro-Vac	<input type="checkbox"/> 3 Hours	<input type="checkbox"/> 6 Hours	<input type="checkbox"/> 24 Hours (1 day)	
<input checked="" type="checkbox"/> Bulk	<input type="checkbox"/> Drinking Water		<input type="checkbox"/> 48 Hours (2 Days)	<input checked="" type="checkbox"/> 72 Hours (3 Days)	<input type="checkbox"/> 96 Hours (4 Days)	<input type="checkbox"/> 120 Hours (1 Week)
<input type="checkbox"/> Wipe	<input type="checkbox"/> Wastewater		<input type="checkbox"/> 2 Week			

* For TEM Air 3 hr, 6 hr, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign authorization form for this services. Analysis complete in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

<p>PCM - Air <input type="checkbox"/> Check if samples from NY</p> <p><input type="checkbox"/> NIOSH 7400</p> <p><input type="checkbox"/> w/ OSHA 8hr. TWA</p> <p>PLM - Bulk (reporting limit)</p> <p><input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%)</p> <p><input type="checkbox"/> PLM EPA NOB (<1%)</p> <p>Point Count</p> <p><input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<.1%)</p> <p>Point Count w/Gravimetric</p> <p><input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<.1%)</p> <p><input type="checkbox"/> NYS 198.1 (friable in NY)</p> <p><input type="checkbox"/> NYS 198.6 NOB (non-friable-NY)</p> <p><input type="checkbox"/> NIOSH 9002 (<1%)</p>	<p>TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA only)</p> <p><input type="checkbox"/> AHERA 40 CFR, Part 763</p> <p><input type="checkbox"/> NIOSH 7402</p> <p><input type="checkbox"/> EPA Level II</p> <p><input type="checkbox"/> ISO 10312</p> <p>TEM - BULK</p> <p><input type="checkbox"/> TEM EPA NOB</p> <p><input type="checkbox"/> NYS NOB 198.4 (non-friable-NY)</p> <p><input type="checkbox"/> Chatfield SOP</p> <p><input type="checkbox"/> TEM Mass Analysis-EPA 600 sec 2.5</p> <p>TEM - Water: EPA 100.2</p> <p>Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking</p> <p>All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking</p>	<p>TEM - Dust</p> <p><input type="checkbox"/> Microvac - ASTM D 5755</p> <p><input type="checkbox"/> Wipe - ASTM D6480</p> <p><input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167)</p> <p>Soil/Rock/Vermiculite</p> <p><input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity)</p> <p><input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity)</p> <p><input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity)</p> <p><input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity)</p> <p><input type="checkbox"/> TEM Qual. via Filtration Technique</p> <p><input type="checkbox"/> TEM Qual. via Drop-Mount Technique</p> <p>Other:</p> <p><input type="checkbox"/></p>
<p><input type="checkbox"/> Check For Positive Stop - Clearly Identify Homogeneous Group</p>		
		<p>Filter Pore Size (Air Samples): <input type="checkbox"/> 0.8µm <input type="checkbox"/> 0.45µm</p>
<p>Samplers Name: Mark Mitchell</p>		<p>Samplers Signature: <i>Mark Mitchell</i></p>



EMSL Analytical, Inc.

2001 East 52nd St. Indianapolis, IN 46205
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EMSL Order: 161609647
Customer ID: KAM62
Customer PO:
Project ID:

Attention: Mark Mitchell
KAM Services, Inc.
601 Broadway Ave, Suite 2
PO Box 1515
Mattoon, IL 61938
Project: COMMERCIAL BUILDING 103 E 3RD STREET, BROCKTON IL 61917 / 16-1065

Phone: (217) 235-0298
Fax: (217) 235-0299
Received Date: 06/03/2016 10:20 AM
Analysis Date: 06/08/2016
Collected Date:

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
103-SPA1-Finish Coat <small>161609647-0001</small>	hard plaster	Gray Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
103-SPA1-Base Coat <small>161609647-0001A</small>	hard plaster	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
103-SPA2-Finish Coat <small>161609647-0002</small>	hard plaster	Gray Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
103-SPA2-Base Coat <small>161609647-0002A</small>	hard plaster	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
103-SPA3-Finish Coat <small>161609647-0003</small>	hard plaster	Gray Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
103-SPA3-Base Coat <small>161609647-0003A</small>	hard plaster	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
103-MMA1 <small>161609647-0004</small>	built up roof	Gray/Black Fibrous Heterogeneous	30% Cellulose 3% Glass	65% Non-fibrous (Other)	2% Chrysotile
103-MMA2 <small>161609647-0005</small>	built up roof	Gray/Black Fibrous Homogeneous	20% Cellulose 3% Glass	72% Non-fibrous (Other)	5% Chrysotile
103-MXA1 <small>161609647-0006</small>	drywall board	Brown/White Fibrous Heterogeneous	25% Cellulose	70% Gypsum 5% Non-fibrous (Other)	None Detected
103-MXA2 <small>161609647-0007</small>	drywall board	Brown/White Fibrous Heterogeneous	25% Cellulose	70% Gypsum 5% Non-fibrous (Other)	None Detected

Analyst(s) _____
Craig Nixon (6)
Ross Matlock (4)


Richard Harding, Laboratory Manager
or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0, AZ0939, CA 2575, CO AL-15132, TX 300262

Initial Report From: 06/08/2016 09:51:19



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*:

161609647

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2001 East 52nd Street
Indianapolis, IN 46205
Phone: (317) 803-2997
Fax: (317) 803-3047

Company: KAM Services, Inc.	Bill To: KAM Services, Inc. (KAM62)
Address1: 601 Broadway Ave., Suite 2	Address1: 601 Broadway Ave., Suite 2
Address2: P.O. Box 1515	Address2: P.O. Box 1515
City, State: Mattoon, IL	City, State: Mattoon, IL
Zip/Post Code: 61938	Zip/Post Code: 61938
Country: USA	Country: USA
Contact Name: Mark E. Mitchell	Attn: Kyndall R. Edwards
Phone: (217) 235-9537	Phone: (217) 235-9537
Fax: (217) 235-0299	Fax: (217) 235-0299
Email: markm@kamservicesinc.com	Email: kyndalle@kamservicesinc.com
U.S. State Samples Taken IL	Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> E-mail <input type="checkbox"/> Mail
Project Name/Number: Commercial Building, 103 E. 3 rd Street, Brocton, IL 61917 / 16-1065	

MATRIX		
<input type="checkbox"/> Air	<input type="checkbox"/> Soil	<input type="checkbox"/> Micro-Vac
<input checked="" type="checkbox"/> Bulk	<input type="checkbox"/> Drinking Water	
<input type="checkbox"/> Wipe	<input type="checkbox"/> Wastewater	

TURNAROUND TIME (TAT) Options* - Please Check			
<input type="checkbox"/> 3 Hours	<input type="checkbox"/> 6 Hours		<input type="checkbox"/> 24 Hours (1 day)
<input type="checkbox"/> 48 Hours (2 Days)	<input checked="" type="checkbox"/> 72 Hours (3 Days)	<input type="checkbox"/> 96 Hours (4 Days)	<input type="checkbox"/> 120 Hours (1 Week)
<input type="checkbox"/> 2 Week			

* For TEM Air 3 hr, 6 hr, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign authorization form for this services. Analysis complete in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

<p>PCM - Air <input type="checkbox"/> Check if samples from NY</p> <p><input type="checkbox"/> NIOSH 7400</p> <p><input type="checkbox"/> w/ OSHA 8hr. TWA</p> <hr/> <p>PLM - Bulk (reporting limit)</p> <p><input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%)</p> <p><input type="checkbox"/> PLM EPA NOB (<1%)</p> <p>Point Count</p> <p><input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<.1%)</p> <p>Point Count w/Gravimetric</p> <p><input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<.1%)</p> <p><input type="checkbox"/> NYS 198.1 (friable in NY)</p> <p><input type="checkbox"/> NYS 198.6 NOB (non-friable-NY)</p> <p><input type="checkbox"/> NIOSH 9002 (<1%)</p>	<p>TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA only)</p> <p><input type="checkbox"/> AHERA 40 CFR, Part 763</p> <p><input type="checkbox"/> NIOSH 7402</p> <p><input type="checkbox"/> EPA Level II</p> <p><input type="checkbox"/> ISO 10312</p> <hr/> <p>TEM - BULK</p> <p><input type="checkbox"/> TEM EPA NOB</p> <p><input type="checkbox"/> NYS NOB 198.4 (non-friable-NY)</p> <p><input type="checkbox"/> Chatfield SOP</p> <p><input type="checkbox"/> TEM Mass Analysis-EPA 600 sec 2.5</p> <hr/> <p>TEM - Water: EPA 100.2</p> <p>Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking</p> <p>All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking</p>	<p>TEM - Dust</p> <p><input type="checkbox"/> Microvac - ASTM D 5755</p> <p><input type="checkbox"/> Wipe - ASTM D6480</p> <p><input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167)</p> <hr/> <p>Soil/Rock/Vermiculite</p> <p><input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity)</p> <p><input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity)</p> <p><input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity)</p> <p><input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity)</p> <p><input type="checkbox"/> TEM Qual. via Filtration Technique</p> <p><input type="checkbox"/> TEM Qual. via Drop-Mount Technique</p> <hr/> <p>Other:</p> <p><input type="checkbox"/></p>
<p><input type="checkbox"/> Check For Positive Stop - Clearly Identify Homogeneous Group</p>		
<p>Samplers Name: Mark Mitchell</p>		<p>Filter Pore Size (Air Samples): <input type="checkbox"/> 0.8µm <input type="checkbox"/> 0.45µm</p> <p>Samplers Signature: <i>Mark Mitchell</i></p>

APPENDIX B

INSPECTOR'S & MANAGEMENT PLANNER'S LICENSES



525-535 West Jefferson Street • Springfield, Illinois 62761-0001 • www.dph.illinois.gov

MARK E MITCHELL
11113 E LAKE EDWARD LANE
EFFINGHAM, IL 62401

4/6/2016

ASBESTOS PROFESSIONAL LICENSE ID NUMBER: 00360

Enclosed is your Asbestos Professional License that expires 05/15/2017

CERTIFICATE EXPIRATION DATE

SUPERVISOR/WORKER	2/2/2017
INSPECTOR	2/3/2017
MANAGEMENT PLANNER	2/3/2017
PROJECT MANAGER	2/2/2017
AIR SAMPLING PROFESSIONAL	

If you have any questions or need further assistance, contact the Asbestos Program at (217)782-3517 or fax (217)785-5897.

Our WEB address is:

<http://www.dph.illinois.gov/topics-services/environmental-health-protection/asbestos>

 ASBESTOS PROFESSIONAL LICENSE	ENDORSEMENTS	TC EXPIRES
ID NUMBER 100 - 00360	SUPERVISOR/WORKER	2/2/2017
ISSUED 4/6/2016	INSPECTOR	2/3/2017
EXPIRES 05/15/2017	MANAGEMENT PLANNER	2/3/2017
MARK E MITCHELL 11113 E LAKE EDWARD LANE EFFINGHAM, IL 62401	PROJECT MANAGER	2/2/2017
	AIR SAMPLING PROFESSIONAL	
 Environmental Health	Alteration of this license shall result in legal action This license issued under authority of the State of Illinois Department of Public Health This license is valid only when accompanied by a valid training course certificate.	

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Reliable
Environmental
Solutions, Inc. **RES**

This is to certify that **Mark Mitchell**

*has on 02/03/16, in Springfield, Illinois,
completed the requirements for asbestos accreditation under Section 206 of TSCA Title II*

Asbestos Building Inspector Refresher Training

*as accredited by the State of Illinois and approved by the U.S.E.P.A. under 40 CFR 763 (AHERA)
and passed the associated examination with a score of 70% or higher*

Course Date: February 3, 2016

COURSE LENGTH: 4 HOURS

Examination Date: February 3, 2016

Expiration Date: February 3, 2017

William S. Williams

Certificate Number: BIR/0517

Course Instructor, William S. Williams

4211 Westgate Drive, Springfield, Illinois ☐ 217.787.9800 ☐ 217.787.9801 FAX ☐ www.ReliableEnv.com

The University of Illinois at Chicago
School of Public Health

MIDWEST ASBESTOS INFORMATION CENTER

Certifies that

MARK M. MITCHELL

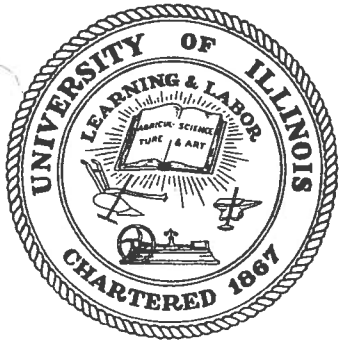
Has Attended the Continuing Education Course

BUILDING INSPECTION

and Successfully Passed the Competency Exam

Date of Issuance **MARCH 16, 1988**

Date of Expiration **MARCH 16, 1989**



Audrey K. Gordon

Director
Continuing Education

Jacob A. Swoly MD

Dean
School of Public Health

Reliable
Environmental
Solutions, Inc. **RES**

This is to certify that **Mark Mitchell**

*has on 02/03/16, in Springfield, Illinois,
completed the requirements for asbestos accreditation under Section 206 of TSCA Title II*

Asbestos Management Planner Refresher Training

*as accredited by the State of Illinois and approved by the U.S.E.P.A. under 40 CFR 763 (AHERA)
and passed the associated examination with a score of 70% or higher*

Course Date: February 3, 2016

COURSE LENGTH: 4 HOURS

Examination Date: February 3, 2016

Expiration Date: February 3, 2017

William S. Williams

Certificate Number: MPR/0281

Course Instructor, William S. Williams

4211 Westgate Drive, Springfield, Illinois ☐ 217.787.9800 ☐ 217.787.9801 FAX ☐ www.ReliableEnv.com

The University of Illinois at Chicago
School of Public Health

A7338

MIDWEST ASBESTOS INFORMATION CENTER

Certifies that

MARK E. MITCHELL

Has Attended the Continuing Education Course

MANAGEMENT PLANNING

(Accredited under AHERA by EPA)

Which has been fully approved and accredited by the Illinois
Department of Public Health

and Successfully Passed the Competency Exam

With a minimum score of at least 70%

DATE OF EXAMINATION: 11-30-90

Date of Issuance 11-30-90

COURSE DATE: 11-29-30-90

Date of Expiration 11-30-91



Audrey K. Gordon

Director
Continuing Education

Jacob A. Swody MD

Dean

APPENDIX C

LABORATORY ACCREDITATION

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200188-0

EMSL Analytical, Inc.
Indianapolis, IN

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:*

Asbestos Fiber Analysis

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

2016-04-01 through 2017-03-31

Effective Dates



A handwritten signature in blue ink that reads 'David F. Alderman'.

For the National Voluntary Laboratory Accreditation Program



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

EMSL Analytical, Inc.
2001 E. 52nd Street
Indianapolis, IN 46205-1405
Mr. Richard Harding
Phone: 317-803-2997 Fax: 317-803-3047
Email: rharding@emsl.com
<http://www.emsl.com>

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 200188-0

Bulk Asbestos Analysis

<u>Code</u>	<u>Description</u>
18/A01	EPA 600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

Airborne Asbestos Analysis

<u>Code</u>	<u>Description</u>
18/A02	U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.

David F. Alderman

For the National Voluntary Laboratory Accreditation Program