



ACM ENGINEERING & ENVIRONMENTAL SERVICES

*SOUTH BEND, INDIANA • FORT WAYNE, INDIANA • ELMHURST, ILLINOIS
TAMPA, FLORIDA • FORT LAUDERDALE, FLORIDA*

***PRE-DEMOLITION SUSPECT ASBESTOS CONTAINING
BUILDING MATERIAL SURVEY REPORT***

FOR:

*DEKALB COUNTY CENTRAL UNITED SCHOOL DISTRICT
3326 COUNTY ROAD 427
WATERLOO, INDIANA 46793*

SURVEY LOCATION:

*RESIDENTIAL STRUCTURE
311 WEST 12TH STREET
AUBURN, INDIANA 46706*

DATE:

SEPTEMBER 21, 2017

REPORT PREPARED BY:

*ACM ENGINEERING & ENVIRONMENTAL SERVICES, INC.
839 MILL LAKE ROAD, SUITE 400
FORT WAYNE, INDIANA 46845
260-483-9795*

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SECTION I:

EXECUTIVE SUMMARY



ACM ENGINEERING & ENVIRONMENTAL SERVICES

**SOUTH BEND, INDIANA • FORT WAYNE, INDIANA • ELMHURST, ILLINOIS
TAMPA, FLORIDA • FORT LAUDERDALE, FLORIDA**

EXECUTIVE SUMMARY

PRE-DEMOLITION SUSPECT ASBESTOS CONTAINING BUILDING MATERIAL SURVEY

FOR:

**DEKALB COUNTY CENTRAL UNITED SCHOOL DISTRICT
3326 COUNTY ROAD 427
WATERLOO, INDIANA 46793**

SURVEY LOCATION:

**RESIDENTIAL STRUCTURE
311 WEST 12TH STREET
AUBURN, INDIANA 46706**

DATE:

SEPTEMBER 21, 2017

On September 7, 2017 ACM Engineering and Environmental Services, Inc. (ACM) performed a pre-demolition suspect asbestos containing building material survey at the residential structure located at 311 West 12th Street, Auburn, Indiana 46706 for the purpose of planned demolition. The residential structure is a single story wood and wood frame manufactured home structure on crawl space.

ACM's Indiana Department of Environmental Management (IDEM) licensed asbestos inspector collected a total of twenty-two (22) suspect asbestos bulk samples of a total of fourteen (14) different suspect homogeneous materials. All suspect asbestos bulk samples collected on this project were analyzed for asbestos content in our in-house NVLAP approved laboratory in accordance with the U.S. Environmental Protection Agency (USEPA) "Method for the Determination of Asbestos in Bulk Building Materials," EPA/600/R-93/116.

The following is a summary of regulated asbestos containing building materials (RACM) and Category I or Category II non-friable asbestos containing materials, which will become friable and regulated during demolition activities and must be removed by a State of Indiana licensed asbestos abatement contractor prior to demolition.

- ❖ **There were no regulated asbestos containing building materials (RACM), Category I, or Category II non-friable asbestos containing materials which will become friable and regulated during normal demolition work activities identified on this project.**

The following is a summary of Category I and Category II non-friable asbestos containing materials which can remain in place during demolition activities if the condition of the material remains non-friable. All waste generated must be disposed of in a State of Indiana sanitary landfill. Any operations which sand, saw, abrade, crumble, pulverize, or reduce the material to a powder (i.e. materials reduction or recycling) will render the material friable and regulated, at which time, removal in compliance with the EPA-NESHAP regulatory standard by a State of Indiana licensed asbestos abatement contractor will be required prior to demolition.

- ❖ **There were no Category I or Category II non-friable asbestos containing materials identified on this project.**

See the Bulk Sample Summary and Locations data sheets located in Section II of this report for the locations of all samples collected and building materials which were sampled and tested negative for asbestos content or considered to be not suspect.

INSPECTOR:



MICHAEL A. DIALS
IDEM #193210125
Exp. 02/23/2018

SECTION II:

***BULK SAMPLE SUMMARY AND
LOCATIONS DATA SHEETS***

BULK SAMPLE SUMMARY AND LOCATIONS

CLIENT:

DEKALB COUNTY CENTRAL UNITED SCHOOL DISTRICT
3326 COUNTY ROAD 427
WATERLOO, INDIANA 46793

LOCATION:

RESIDENTIAL STRUCTURE
311 WEST 12TH STREET
AUBURN, INDIANA 46706

DATE:

SEPTEMBER 7, 2017

BY: M. DIALS / C. MICINSKI

SAMPLE #	LOCATION	SAMPLE TYPE	ASBESTOS	FRIABLE/ NON-FRIABLE
311 - 01	KITCHEN	WOOD GRAIN LINOLEUM FLOORING	NONE DETECTED	N/A
311 - 02	KITCHEN	BLACK ANTI-SWEAT STAINLESS STEEL SINK COATING	NONE DETECTED	N/A
311 - 03	MASTER BEDROOM BATHROOM	OFF-WHITE SQUARE PATTERN LINOLEUM	NONE DETECTED	N/A
311 - 04	MASTER BEDROOM BATHROOM	WHITE CAULK AROUND BATHTUB SURROUND	NONE DETECTED	N/A
311 - 05A	KITCHEN	SPANISH LACE CEILING TILE	NONE DETECTED	N/A
311 - 05B	LIVING ROOM	SPANISH LACE CEILING TILE	NONE DETECTED	N/A
311 - 05C	MASTER BEDROOM	SPANISH LACE CEILING TILE	NONE DETECTED	N/A
311 - 05D	NORTHWEST CORNER BEDROOM	SPANISH LACE CEILING TILE	NONE DETECTED	N/A

Inspector: Michael A. Dials
Inspector: Casey Micinski

IDEM Inspector #: 193210125
IDEM Inspector #: 192907077

Expiration: 2/23/18
Expiration: 8/19/18

BULK SAMPLE SUMMARY AND LOCATIONS

CLIENT:

DEKALB COUNTY CENTRAL UNITED SCHOOL DISTRICT
3326 COUNTY ROAD 427
WATERLOO, INDIANA 46793

LOCATION:

RESIDENTIAL STRUCTURE
311 WEST 12TH STREET
AUBURN, INDIANA 46706

DATE:

SEPTEMBER 7, 2017

BY: M. DIALS / C. MICINSKI

SAMPLE #	LOCATION	SAMPLE TYPE	ASBESTOS	FRIABLE/ NON-FRIABLE
311 - 05E	SOUTHWEST CORNER BEDROOM	SPANISH LACE CEILING TILE	NONE DETECTED	N/A
311 - 06A	KITCHEN WALL	DRYWALL WALL AND CEILING SYSTEMS	NONE DETECTED	N/A
311 - 06B	DEN CEILING	DRYWALL WALL AND CEILING SYSTEMS	NONE DETECTED	N/A
311 - 06C	MASTER BEDROOM CLOSET WALL AROUND WATER HEATER	DRYWALL WALL AND CEILING SYSTEMS	NONE DETECTED	N/A
311 - 06D	HALLWAY WALL	DRYWALL WALL AND CEILING SYSTEMS	NONE DETECTED	N/A
311 - 06E	NORTHWEST CORNER BEDROOM CEILING	DRYWALL WALL AND CEILING SYSTEMS	NONE DETECTED	N/A
311 - 07	ATTIC	GRAY FIBROUS ATTIC INSULATION	NONE DETECTED	N/A
311 - 08	ATTACHED GARAGE	BRICK DESIGN WALL PANELING	NONE DETECTED	N/A

Inspector: Michael A. Dials
Inspector: Casey Micinski

IDEM Inspector #: 193210125
IDEM Inspector #: 192907077

Expiration: 2/23/18
Expiration: 8/19/18

BULK SAMPLE SUMMARY AND LOCATIONS

CLIENT: DEKALB COUNTY CENTRAL UNITED SCHOOL DISTRICT
 3326 COUNTY ROAD 427
 WATERLOO, INDIANA 46793

LOCATION: RESIDENTIAL STRUCTURE
 311 WEST 12TH STREET
 AUBURN, INDIANA 46706

DATE: SEPTEMBER 7, 2017 BY: M. DIALS / C. MICINSKI

SAMPLE #	LOCATION	SAMPLE TYPE	ASBESTOS	FRIABLE/ NON-FRIABLE
311 - 09	ATTACHED GARAGE STORAGE CLOSET	CERAMIC FLOOR TILE, GROUT, AND ADHESIVE	NONE DETECTED	N/A
311 - 10	EXTERIOR	WHITE CAULK AROUND GARAGE OVERHEAD DOOR	NONE DETECTED	N/A
311 - 11	EXTERIOR OF HOUSE	BROWN FIBER BOARD UNDER SIDING	NONE DETECTED	N/A
311 - 12	EXTERIOR ROOF	ASPHALT BASE ROOF SHINGLE TOP LAYER	NONE DETECTED	N/A
311 - 13	EXTERIOR ROOF	ASPHALT BASE ROOF SHINGLE BOTTOM LAYER	NONE DETECTED	N/A
311 - 14	EXTERIOR ROOF	FELT UNDER BOTH LAYERS OF ROOF SHINGLES	NONE DETECTED	N/A

Inspector: Michael A. Dials IDEM Inspector #: 193210125 Expiration: 2/23/18
 Inspector: Casey Micinski IDEM Inspector #: 192907077 Expiration: 8/19/18

SECTION III:

***ANALYSIS OF SUSPECT ASBESTOS
CONTAINING BUILDING MATERIALS
REPORT***



ANALYSIS OF SUSPECT ASBESTOS CONTAINING BUILDING MATERIALS

METHOD:

All analyses and quantifications are performed in accordance with the U.S. Environmental Protection Agency's "Method for the Determination of Asbestos in Bulk Building Materials", EPA/600/R-93/116 & EPA/600/M4-82/020: "Interim Method for the Determination of Asbestos in Bulk Insulation Samples." ACM Engineering & Environmental Services is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope of accreditation under NVLAP lab code 101977-0. These methods utilize stereoscopic examination of bulk samples, as well as utilizing the polarized light microscope (PLM). To determine the refractive index, the central stop dispersion staining method is used, as well as matching with refractive index oil and using light matching the sodium D line wavelength. Identification of non-asbestos species is less rigorous, as they are of secondary interest.

Gross samples are examined under a 10X or 20X stereoscope where homogeneity (need for sub-samples), texture and /or any other distinguishing characteristics are determined. Any fibrous material is mounted in high dispersion oil for further microscope examination utilizing PLM. Any possible asbestos fibers are analyzed for morphology, color and pleochroism, index of refraction parallel and perpendicular to elongation, birefringence, extinction characteristic and sign of elongation, and any other distinguishing characteristics observed.

The percentage of asbestos and other fibrous materials are then determined according to sample area coverage and thickness. The limit of quantitation is one percent (1%). The above is recorded on the laboratory analysis sheet and maintained for three years. The error involved for reported percentages of fibrous is 100% error for 1% to 5%, 50% error for 5% to 20%, and 25% error for 20% to 100%. All percentages will be reported in a range indicating error or a single value, in which case the above error should be applied. When the value 1% or greater is reported this indicates asbestos is present in the sample.

THE REPORT:

The attached report quantifies the fibrous materials found in each sample submitted for analysis. A complete fibrous analysis of samples is given for each sample followed by a breakdown analysis of any sub-samples for heterogeneous material.

- *The first column* is the client sample number identification.
- *The second column* is the laboratory sample number. The laboratory number for the overall sample analysis is a digit number. The laboratory number followed by a letter designation (A,B,C. etc.) indicates a sub-sample analysis.
- *The third column* is the sample identification, which indicates whether the sample is homogeneous or heterogeneous, the color of the sample, and the physical description (cementitious, fibrous, cloth, etc.)
- *The fourth column* indicates the types and percentages of asbestos identified if any.
- *The fifth column* indicates the types and percentages of cellulose (CELL) non-asbestos identified.
- *The sixth column* indicates the types and percentages of non-fibrous, non-asbestos material (NON -FIB NON-ACBM) identified.
- *The seventh column* indicates the types and percentages of fibrous non-asbestos material (FIB NON ACBM) in the sample or sub-sample.

SAMPLE RETENTION:

Samples will be retained for 6 months unless otherwise instructed. After this period, the sample(s) will be disposed of appropriately. Upon written request, the samples will be returned by mail or delivery for a nominal fee to cover postage and handling. There would be no charge for samples picked-up at ACM Engineering & Environmental Services.

DISCUSSION AND RECOMMENDATIONS:

In order to reduce the risk of introducing asbestos fibers into the air, care should be taken not to disturb the asbestos containing building materials. If renovation, demolition or other activities might disturb known asbestos containing building materials, a reputable asbestos consultant should be contacted to help effectively design and implement an asbestos management program.

COMPONENTS DESCRIPTION:

ASBESTOS MATERIALS

NON-ASBESTOS MATERIALS

A	= Amosite	CF	= Ceramic Fibers	N	= Nylon
AC	= Actinolite	CO	= Cotton	O	= Other
AN	= Anthophyllite	G	= Fibrous Glass	S	= Synthetics
C	= Chrysotile	H	= Hair	V	= Vermiculite
CR	= Crocidolite	M	= Mineral Wool		
T	= Tremolite				
----	= No Asbestos Detected				

NOTE: ACM Engineering & Environmental Services does not deviate from the test method described in this report. This report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the items above. This report must not be reproduced, except in full, without the written consent of ACM Engineering & Environmental Services.



CLIENT: Dekalb County Central United School District
3326 County Road 427
Walterloo, IN 46793

ANALYSIS METHODS: EPA/600/R-93-116 & EPA/600/M4-82-020
NVLAP LAB CODE: 101977-0
MATRIX: Bulk

LOCATION: Residential Structure
311 West 12th Street
Auburn, IN 46706

Sample Date: 9/7/17
Analysis Date: 9/8/17
ACM PROJECT #: 27311

Table with 7 columns: CLIENT SAMPLE #, LAB SAMPLE #, SAMPLE IDENTIFICATION, ASBEST, CELL, NON RIB NON ACBM, FIB NON ACBM. Rows include sample IDs 311-01 through 311-14 with corresponding analysis results.

ACM RECOMMENDS POINT COUNTING ANALYSIS ON ALL BULK SAMPLES WITH LESS THAN 10% (<10%) ASBESTOS CONTENT.

Microscopist: Anna Platt

Title: QC Administrator

Date: 9/8/17

21311

PAGE 1 OF 1

ACM ENGINEERING & ENVIRONMENTAL SERVICES INC.
 839 MILL LAKE ROAD, SUITE 400
 FORT WAYNE, INDIANA 46845
 PHONE (260) 483-9795

LABORATORY CHAIN OF CUSTODY DOCUMENT

CLIENT NAME DeKalb County Central United School District		REPORT TO Mike Diels	PHONE 800-483-9795	EMAIL mdiels@acmenet.com	SAMPLED BY M. Diels C. Mersick		
ADDRESS 3326 County Road 487		STATE Indiana	PROJECT NAME & LOCATION Residential Structure 311 West 12th Street Auburn, Indiana 46706				
CITY Waterloo	ZIP 46793						
SAMPLE IDENTIFICATION		DATE COLLECTED	SAMPLE TYPE BULK/AIR/WIPE	REQUESTED ANALYSIS			
311-01	311-13	9/7/17	Bulk	Asbestos by PVM			
02	↓ - 14						
03							
04							
05A, B, C, D, E							
06A, B, C, D, E							
07							
08							
09							
10							
11							
12							
TRANSFER NO.	RELINQUISHED BY	DATE	TIME	ACCEPTED BY	DATE	TIME	CONDITION
1	Cathy Mail	9/7/17		C. Mersick	9/18/17	9:15	Good
2	A. Diels	9/8/17	11:17				
3							
ADDITIONAL COMMENTS (PLEASE RECORD SPECIAL HANDLING/HAZARD INFORMATION)							

SECTION IV:

***INSPECTOR AND LABORATORY
ACCREDITATION AND LICENSING***



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

ACM Engineering & Environmental Services, Inc.

26598 US-20 West

South Bend, IN 46628

Mr. Larry Malone

Phone: 574-234-8435 · Fax: 574-234-6800

Email: staff@acmenv.com

<http://www.acmenv.com>

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 101977-0

Bulk Asbestos Analysis

Code

Description

18/A01

EPA -- Appendix E to Subpart E of Part 763 -- Interim Method of the Determination of Asbestos in Bulk Insulation Samples

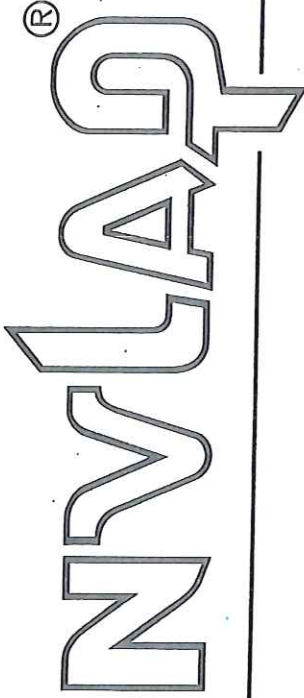
18/A03

EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

A handwritten signature in black ink, appearing to read "Dana S. Laman".

For the National Voluntary Laboratory Accreditation Program

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 101977-0

ACM Engineering & Environmental Services, Inc.
South Bend, 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-IAC-IAE Communique dated January 2009).

2017-07-01 through 2018-06-30

Effective Dates

A handwritten signature in black ink, appearing to read "John S. Lamm".

For the National Voluntary Laboratory Accreditation Program

Indiana Department of Environmental Management
100 N. Senate Avenue
Mail Code 61-52 IGCN 1003
Indianapolis, IN 46204-2251



February 21, 2017

000004

Michael A. Dials
ACM Engineering & Environ Svcs Inc
622 Water Meade PL
Fort Wayne IN 46825

Re: Asbestos Inspector # 193210125

Based upon the review of your license application, the Office of Air Quality has determined that you have fulfilled the requirements of 326 IAC 18 and are eligible for licensing in the following discipline:

Asbestos Inspector

Your Asbestos Inspector license is attached below. The license is waterproof and tear resistant. Please sign your license and do not laminate or alter your license in anyway. Your license must be available for review at all times while implementing an asbestos project. This license may be revoked, pursuant to 326 IAC 18-1-7, if you:

- (1) Violate any requirements of these rules (326 IAC 18), 326 IAC 14-10, or any requirement of the Asbestos-Containing Materials in Schools Rule or any other federal, state, or local regulation pertaining to asbestos in buildings or to asbestos projects.
- (2) Falsify information on your application for licensing.
- (3) Fail to meet any qualifications specified in 326-IAC 18-1-4.
- (4) Conduct asbestos project, or related asbestos handling activity, in a manner which is hazardous to the public health.

Your license is valid effective 02/23/2017, and will expire on 02/23/2018, as indicated on your card. We suggest that you attend the required training and submit an application for license renewal early to insure your license does not lapse. NOTE: 326 IAC 18-1-4(h) and 326 IAC 18-1-6(e) require that any individual who has an eighteen (18) month lapse between any two training courses of the same discipline to attend an initial training course for the discipline in which they are seeking a license. In order to avoid re-taking the initial training course you must have attended a refresher in the discipline you are seeking a license within eighteen (18) months from the date of issuance of your last training course certificate.

Office of Air Quality, Asbestos Licensing Section (317) 233-3861



Indiana Dept. of Environmental Management

Michael A. Dials

Asbestos Inspector License #: 193210125

Effective: 02/23/2017	Expiration: 02/23/2018
Birth Date: 12/06/1968	Gender: M
Height: 6-03	Eye Color: BRO
Weight: 220	Hair Color: BRO

ENVIRONMENTAL SAFETY ASSURANCE INSTITUTE
1435 Sadlier Circle West Drive
Indianapolis, Indiana 46239
(317) 352-1270 / (317) 352-0669

MICHAEL A. DIALS
3659

Has Successfully Completed The Course
Required Under TSCA Title II
And Passed The Written Examination
With a Score of 70% or Better
For

ASBESTOS BUILDING INSPECTOR REFRESHER

Accredited by the
Indiana Department of Environmental Management

Certificate # ES17/BIR2080

Course Dates : 02/09/2017
Test Date: 02/09/2017 Expires: 02/09/2018



Sharyn Reyes

Sharyn Reyes
Manager