



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 WITH DETACHED GARAGE
311 13TH STREET
AUBURN, INDIANA 46706*

DATE:

SEPTEMBER 22, 2017

REPORT PREPARED BY:

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

TABLE OF CONTENTS

<i>SECTION</i>	<i>CONTENT</i>
I	<i>Executive Summary</i>
II	<i>Bulk Sample Summary and Locations Data Sheets</i>
III	<i>Analysis of Suspect Asbestos Containing Building Materials Report</i>
IV	<i>Inspector and Laboratory Accreditation and Licensing</i>

SECTION I:

EXECUTIVE SUMMARY



ACM ENGINEERING & ENVIRONMENTAL SERVICES

*SOUTH BEND, INDIANA • FORT WAYNE, INDIANA • ELMHURST, ILLINOIS
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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 WITH DETACHED GARAGE
311 13TH STREET
AUBURN, INDIANA 46706**

DATE:

SEPTEMBER 22, 2017

On September 5, 2017 ACM Engineering and Environmental Services, Inc. (ACM) performed a pre-demolition suspect asbestos containing building material survey at the residential structure with detached garage located at 311 13th Street, Auburn, Indiana 46706 for the purpose of planned demolition. The residential structure is a two story wood and wood frame structure on a partial basement and partial crawl space. The detached garage is a wood and wood frame structure on concrete slab.

ACM's Indiana Department of Environmental Management (IDEM) licensed asbestos inspector collected a total of forty-seven (47) suspect asbestos bulk samples of a total of thirty-nine (39) 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.

1) **Gray duct and duct boot wrap (Sample 311-01):**

The estimated 7 boots of asbestos containing duct boot wrap is located in the basement of the residential structure. An additional estimated 60 square feet of asbestos containing duct wrap is located in the basement and likely in wall cavities leading to the second floor registers of the residential structure.

2) **Gray duct seam tape (Sample 311-02):**

The estimated 50 linear feet of asbestos containing duct seam tape is located in the basement of the residential structure.

3) **Hard wall and ceiling plaster (Samples 311-11A, 311-11B, 311-11C, 311-11D, 311-11E, 311-11F, and 311-11G):**

The estimated 3,600 square feet (+/- 10%) of asbestos containing hard wall and ceiling plaster is located throughout the original residential structure excluding the rear addition (drywall).

4) **Exterior window glazing (Sample 311-26):**

The estimated 14 multi-size window systems with the asbestos containing exterior window glazing are located on the exterior parameter of the original residential structure. Removal is recommended due to the deteriorated condition of the material.

5) **Thin sheet gray fibrous wall board material (Sample 311-34):**

The estimated 8 square feet of asbestos containing thin sheet gray fibrous wall board material is located on the south wall and stored on the floor of the detached garage of the residential structure.

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.

1) **Brown floor tile with non-asbestos mastic (Sample 311-13):**

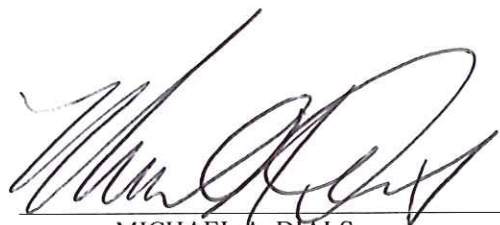
The estimated 160 square feet of asbestos containing brown floor tile is located under the non-asbestos tan and brown square pattern linoleum and on top of two additional layers of non-asbestos flooring in the kitchen of the residential structure.

2) **Brown floor tile with non-asbestos mastic (Sample 311-21):**

The estimated 80 square feet of asbestos containing brown floor tile is located on top of a non-asbestos black felt underlayment in the second floor bathroom of the residential structure.

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 13TH STREET
AUBURN, INDIANA 46706

DATE:

SEPTEMBER 5, 2017

BY: M. DIALS / C. MICINSKI

SAMPLE #	LOCATION	SAMPLE TYPE	ASBESTOS	FRIABLE/ NON-FRIABLE
311 - 01	BASEMENT	GRAY DUCT AND BOOT WRAP	43% CHRYSOTILE	REGULATED FRIABLE
311 - 02	BASEMENT	GRAY DUCT SEAM TAPE	44% CHRYSOTILE	REGULATED FRIABLE
311 - 03	BASEMENT	YELLOW WINDOW FRAME CAULK	NONE DETECTED	N/A
311 - 04	BASEMENT	FURNACE EXHAUST FLUE PACKING	NONE DETECTED	N/A
311 - 05	BASEMENT	HOT WATER HEATER EXHAUST FLUE PACKING	NONE DETECTED	N/A
311 - 06	BASEMENT	CHIMNEY BRICK MORTAR	NONE DETECTED	N/A
311 - 07	BASEMENT	PLASTER PATCH ON CONCRETE BLOCK	NONE DETECTED	N/A
311 - 08	BASEMENT	1X1 INTER-LOCKING GRID CEILING TILE WITH WHITE TEXTURED SURFACE	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 13TH STREET
 AUBURN, INDIANA 46706

DATE: SEPTEMBER 5, 2017

BY: M. DIALS / C. MICINSKI

SAMPLE #	LOCATION	SAMPLE TYPE	ASBESTOS	FRIABLE/ NON-FRIABLE
311 - 09	BASEMENT	TAN WINDOW FRAME CAULK	NONE DETECTED	N/A
311 - 10	BASEMENT UNDER FRONT PORCH	WHITE CAULK BETWEEN WOOD PANELS FOR FRONT PORCH	NONE DETECTED	N/A
311 - 11A	BASEMENT STAIRWELL WALL	HARD WALL AND CEILING PLASTER	3% CHRYSOTILE	REGULATED FRIABLE
311 - 11B	BASEMENT STAIRWELL CEILING	HARD WALL AND CEILING PLASTER	3% CHRYSOTILE	REGULATED FRIABLE
311 - 11C	ORIGINAL HOUSE - DINING ROOM WALL	HARD WALL AND CEILING PLASTER	2% CHRYSOTILE	REGULATED FRIABLE
311 - 11D	ORIGINAL HOUSE - LIVING ROOM CEILING	HARD WALL AND CEILING PLASTER	2% CHRYSOTILE	REGULATED FRIABLE
311 - 11E	ORIGINAL HOUSE - LIVING ROOM WALL	HARD WALL AND CEILING PLASTER	3% CHRYSOTILE	REGULATED FRIABLE
311 - 11F	2 ND FLOOR SOUTHEAST CORNER BEDROOM WALL	HARD WALL AND CEILING PLASTER	3% CHRYSOTILE	REGULATED FRIABLE

Inspector: Michael A. Dials
 Inspector: Casey Micinski

IDEM Inspector #: 193210125
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Expiration: 2/23/18
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BULK SAMPLE SUMMARY AND LOCATIONS

CLIENT:

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

LOCATION:

RESIDENTIAL STRUCTURE
 311 13TH STREET
 AUBURN, INDIANA 46706

DATE:

SEPTEMBER 5, 2017

BY: M. DIALS / C. MICINSKI

SAMPLE #	LOCATION	SAMPLE TYPE	ASBESTOS	FRIABLE/ NON-FRIABLE
311 – 11G	2 ND FLOOR NORTHWEST CORNER BEDROOM WALL	HARD WALL AND CEILING PLASTER	2% CHRYSOTILE	REGULATED FRIABLE
311 – 12	KITCHEN, DINING, & SIDE ENTRY	LINOLEUM, TAN AND BROWN SQUARE PATTERN (TOP LAYER)	NONE DETECTED	N/A
311 – 13	KITCHEN	FIRST LAYER UNDER 13 – 12 (BROWN)	FLOOR TILE: 18% CHRYSOTILE MASTIC: NONE DETECTED	CATEGORY I NON-FRIABLE N/A
311 – 14	KITCHEN	SECOND LAYER UNDER 311 – 12 MULTI- COLOR FLECK	NONE DETECTED	N/A
311 – 15	KITCHEN	THIRD LAYER UNDER 311 – 12 FELT BACKED	NONE DETECTED	N/A
311 – 16	REAR ADDITION BATHROOM	16"X16" TAN AND BROWN CERAMIC TILE AND GROUT	NONE DETECTED	N/A
311 – 17	REAR ADDITION BATHROOM	WHITE FILLER	NONE DETECTED	N/A

Inspector: Michael A. Dials
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BULK SAMPLE SUMMARY AND LOCATIONS

CLIENT:

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

LOCATION:

RESIDENTIAL STRUCTURE
 311 13TH STREET
 AUBURN, INDIANA 46706

DATE:

SEPTEMBER 5, 2017

BY: M. DIALS / C. MICINSKI

SAMPLE #	LOCATION	SAMPLE TYPE	ASBESTOS	FRIABLE/ NON-FRIABLE
311 – 18A	REAR ADDITION DINING ROOM NORTH WALL	DRYWALL WALL	NONE DETECTED	N/A
311 – 18B	REAR ADDITION DINING ROOM	DRYWALL CEILING	NONE DETECTED	N/A
311 – 18C	REAR ADDITION FAMILY ROOM	DRYWALL WALL	NONE DETECTED	N/A
311 – 19	2 ND FLOOR – BATHROOM	WHITE FIBERBOARD UNDERLAYMENT	NONE DETECTED	N/A
311 – 20	2 ND FLOOR – BATHROOM	GRAY CERAMIC TILE ADHESIVE	NONE DETECTED	N/A
311 – 21	2 ND FLOOR – BATHROOM	BROWN FLOOR TILE WITH BLACK MASTIC	FLOOR TILE: 3% CHRYSOTILE MASTIC: NONE DETECTED	CATEGORY I NON-FRIABLE N/A
311 – 22	2 ND FLOOR – BATHROOM	BLACK FELT UNDERLAYMENT UNDER #21	NONE DETECTED	N/A

Inspector: Michael A. Dials
 Inspector: Casey Micinski

IDEM Inspector #: 193210125
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Expiration: 2/23/18
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BULK SAMPLE SUMMARY AND LOCATIONS

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

LOCATION: RESIDENTIAL STRUCTURE
 311 13TH STREET
 AUBURN, INDIANA 46706

DATE: SEPTEMBER 5, 2017

BY: M. DIALS / C. MICINSKI

SAMPLE #	LOCATION	SAMPLE TYPE	ASBESTOS	FRIABLE/ NON-FRIABLE
311 - 23	2 ND FLOOR - BATHROOM	TAN SHOWER SURROUND CAULK	NONE DETECTED	N/A
311 - 24	ATTIC	TAN / GRAY BLOWN-IN ATTIC INSULATION	NONE DETECTED	N/A
311 - 25	REAR EXTERIOR ADDITION - SLIDING DOORS	CLEAR CAULK	NONE DETECTED	N/A
311 - 26	2 ND FLOOR ORIGINAL HOUSE EXTERIOR	WINDOW GLAZING	3% CHRYSOTILE	REGULATED CATEGORY I NON-FRIABLE
311 - 27	EXTERIOR ORIGINAL HOUSE	FOIL AND PAPER HOUSE WRAP	NONE DETECTED	N/A
311 - 28	EXTERIOR ORIGINAL HOUSE	BRICK FOUNDATION MORTAR	NONE DETECTED	N/A
311 - 29	EXTERIOR REAR ADDITION	CINDER BLOCK FOUNDATION MORTAR	NONE DETECTED	N/A

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BULK SAMPLE SUMMARY AND LOCATIONS

CLIENT:

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

LOCATION:

RESIDENTIAL STRUCTURE
 311 13TH STREET
 AUBURN, INDIANA 46706

DATE:

SEPTEMBER 5, 2017

BY: M. DIALS / C. MICINSKI

SAMPLE #	LOCATION	SAMPLE TYPE	ASBESTOS	FRIABLE/ NON-FRIABLE
311 - 30	EXTERIOR REAR ADDITION	WHITE WINDOW FRAME CAULK	NONE DETECTED	N/A
311 - 31	EXTERIOR HOUSE ROOF	ROOF SHINGLE	NONE DETECTED	N/A
311 - 32	EXTERIOR HOUSE ROOF	ROOF FELT	NONE DETECTED	N/A
311 - 33	EXTERIOR DETACHED GARAGE	TAR FELT UNDER WOOD SIDING	NONE DETECTED	N/A
311 - 34	DETACHED GARAGE	THIN SHEET GRAY FIBROUS WALL BOARD MATERIAL	45% CHRYSOTILE	REGULATED FRIABLE
311 - 35	DETACHED GARAGE	1/4 INCH THICK HARDI BACKER BOARD	NONE DETECTED	N/A
311 - 36	DETACHED GARAGE	1/2 INCH BROWN FIBROUS WALL BOARD	NONE DETECTED	N/A
311 - 37	EXTERIOR DETACHED GARAGE	TAN WINDOW GLAZING	NONE DETECTED	N/A

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Expiration: 2/23/18
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BULK SAMPLE SUMMARY AND LOCATIONS

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

LOCATION: RESIDENTIAL STRUCTURE
311 13TH STREET
AUBURN, INDIANA 46706

DATE: SEPTEMBER 5, 2017

BY: M. DIALS / C. MICINSKI

SAMPLE #	LOCATION	SAMPLE TYPE	ASBESTOS	FRIABLE/ NON-FRIABLE
311 - 38	DETACHED GARAGE ROOF	GRAY ASPHALT HOUSE ROOF SHINGLE	NONE DETECTED	N/A
311 - 39	DETACHED GARAGE ROOF	FELT UNDER ROOF SHINGLE	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

A = Amosite
 AC = Actinolite
 AN = Anthophyllite
 C = Chrysotile
 CR = Crocidolite
 T = Tremolite
 --- = No Asbestos Detected

NON-ASBESTOS MATERIALS

CF = Ceramic Fibers N = Nylon
 CO = Cotton O = Other
 G = Fibrous Glass S = Synthetics
 H = Hair V = Vermiculite
 M = Mineral Wool

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 13th Street
Auburn, IN 46706

Sample Date: 9/5/17
Analysis Date: 9/6/17
ACM PROJECT #: 27289

CLIENT SAMPLE #	LAB SAMPLE #	SAMPLE IDENTIFICATION	ASBEST	CELL	NON FIB NON ACBM	FIB NON ACBM
311-01	1711385	GREY/WHITE FIBROUS MATL	43% C	57%	----	----
311-02	1711386	GREY/WHITE FIBROUS MATL	44% C	56%	----	----
311-03	1711387	YELLOW/WHITE FLAKY MATL	----	----	100%	----
311-04	1711388	GREY GRAINY MATL	----	----	100%	----
311-05	1711389	GREY GRAINY MATL	----	----	100%	----
311-06	1711390	DARK GREY GRAINY MATL	----	----	100%	----
311-07	1711391	GREY GRAINY MATL	----	----	100%	----
311-08	1711392	TAN/WHITE FIBROUS MATL	----	49%	----	51% G
311-09	1711393	YELLOW/WHITE FLAKY MATL	----	----	100%	----
311-10	1711394	TAN/WHITE PLIABLE MATL	----	----	100%	----
311-11A	1711395	GREY/WHITE GRAINY MATL	3% C	----	95%	2% H
311-11B	1711396	GREY/WHITE GRAINY MATL	3% C	----	94%	3% H
311-11C	1711397	GREY/WHITE GRAINY MATL	2% C	----	95%	3% H
311-11D	1711398	GREY/WHITE GRAINY MATL	2% C	----	95%	3% H
311-11E	1711399	GREY/WHITE GRAINY MATL	3% C	----	95%	2% H
311-11F	1711400	GREY/WHITE GRAINY MATL	3% C	----	94%	3% H
311-11G	1711401	GREY/WHITE GRAINY MATL	2% C	----	95%	3% H
311-12	1711402	LIGHT TAN PLIABLE MATL	----	59%	24%	17% G
311-12	1711402A	YELLOW/BROWN ADHESIVE MATL	----	----	100%	----
311-13	1711403	LIGHT TAN PLIABLE MATL	18% C	59%	23%	----
311-13	1711403A	YELLOW/BROWN ADHESIVE MATL	----	----	100%	----
311-14	1711404	TAN/GREEN PLIABLE MATL	----	66%	34%	----
311-15	1711405	DARK BROWN FIBROUS MATL	----	67%	33%	----
311-15	1711405A	DARK BROWN ADHESIVE MATL	----	----	100%	----
311-16	1711406	WHITE/RED/BROWN GRAINY MATL	----	----	100%	----
311-17	1711407	WHITE FLAKY MATL	----	----	100%	----
311-18A	1711408	WHITE FLAKY MATL	----	13%	87%	----
311-18B	1711409	WHITE FLAKY MATL	----	15%	85%	----
311-18C	1711410	WHITE FLAKY MATL	----	23%	77%	----

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

Microscopist: Jamy Malau

Title: Laboratory Director

Date: 9/6/17

**ACM ENGINEERING & ENVIRONMENTAL SERVICES**

WWW.ACMENV.COM

26598 U.S. 20 WEST, SOUTH BEND, IN 46628

P: (574)234-8435 F: (574)234-6800

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 13th Street
Auburn, IN 46706

Sample Date: 9/5/17
Analysis Date: 9/6/17
ACM PROJECT #: 27289

CLIENT SAMPLE #	LAB SAMPLE #	SAMPLE IDENTIFICATION	ASBEST	CELL	NON FIB NON ACBM	FIB NON ACBM
311-19	1711411	TAN/WHITE FIBROUS MATL	----	81%	19%	----
311-20	1711412	DARK GREY GRAINY MATL	----	----	100%	----
311-21	1711413	BROWN GRAINY MATL	3% C	----	97%	----
311-21	1711413A	DARK BROWN/BLACK ADHESIVE MATL	----	----	100%	----
311-22	1711414	BLACK FIBROUS MATL	----	76%	24%	----
311-23	1711415	YELLOW/WHITE PLIABLE MATL	----	----	100%	----
311-24	1711416	DARK GREY/WHITE FIBROUS MATL	----	----	----	100% G
311-25	1711417	CLEAR PLIABLE MATL	----	----	100%	----
311-26	1711418	WHITE FLAKY MATL	3% C	----	97%	----
311-27	1711419	SILVER METALLIC MATL	----	39%	61%	----
311-28	1711420	RED/BROWN GRANULAR MATL	----	----	100%	----
311-29	1711421	GREY/WHITE GRAINY MATL	----	----	100%	----
311-30	1711422	WHITE PLIABLE MATL	----	----	100%	----
311-31	1711423	BLACK FIBROUS MATL	----	55%	27%	18% G
311-32	1711424	DARK BROWN/BLACK FIBROUS MATL	----	83%	17%	----
311-33	1711425	DARK BROWN/BLACK FIBROUS MATL	----	84%	16%	----
311-34	1711426	GREY/WHITE FIBROUS MATL	45% C	55%	----	----
311-35	1711427	WHITE FIBROUS MATL	----	83%	17%	----
311-36	1711428	RED/BROWN FIBROUS MATL	----	87%	13%	----
311-37	1711429	WHITE GRAINY MATL	----	----	100%	----
311-38	1711430	BLACK FIBROUS MATL	----	63%	37%	----
311-39	1711431	BLACK FIBROUS MATL	----	86%	14%	----

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

Microscopist: Jamy MaloneTitle: Laboratory DirectorDate: 9/6/17

Revision 3, 5/16/16

27289

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 <i>DeKalb County Central United School District</i>		REPORT TO <i>Mike Diels</i>	PHONE <i>800-483-9795</i>	EMAIL <i>midiels@acmenv.com</i>	SAMPLED BY <i>M. Diels C. Mersky</i>		
ADDRESS <i>3326 County Road 487</i>		PROJECT NAME & LOCATION <i>Residential Structure 311 13th Street Auburn, Indiana 46706</i>					
CITY <i>Waterloo</i>	STATE <i>Indiana</i>	ZIP <i>46793</i>					
SAMPLE IDENTIFICATION		DATE COLLECTED	SAMPLE TYPE BULK/AIR/WIPE	REQUESTED ANALYSIS			
<i>311-01</i>	<i>311-25</i>	<i>9/5/17</i>	<i>Bulk</i>	<i>Asbestos by PIV</i>			
<i>311-02</i>	<i>311-26</i>						
<i>311-03</i>	<i>311-27</i>						
<i>311-04</i>	<i>311-28</i>						
<i>311-05</i>	<i>311-29</i>						
<i>311-06</i>	<i>311-30</i>						
<i>311-07</i>	<i>311-31</i>						
<i>311-08</i>	<i>311-32</i>						
<i>311-09</i>	<i>311-33</i>						
<i>311-10</i>	<i>311-34</i>						
<i>311-11A,B,C,D,E,F,G</i>	<i>311-35</i>						
<i>311-12</i>	<i>311-36</i>						
TRANSFER NO.	RELINQUISHED BY	DATE	TIME	ACCEPTED BY	DATE	TIME	CONDITION
<i>1</i>	<i>Casey Mint</i>	<i>9/5/17</i>		<i>Chris Stone</i>	<i>9/11/17</i>	<i>9:00</i>	<i>Good</i>
<i>2</i>							
<i>3</i>							
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

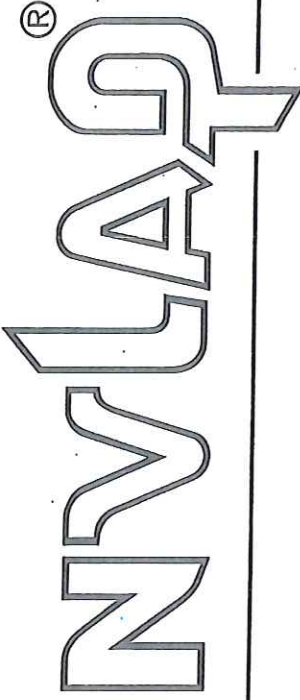
18/A03

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-ILAC-IAF Communique dated January 2009).

2017-07-01 through 2018-06-30

Effective Dates

A handwritten signature in black ink, appearing to read "Peter 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