



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
703 SOUTH VAN BUREN 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*

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
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 WITH DETACHED GARAGE
703 SOUTH VAN BUREN 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 with detached garage located at 703 South Van Buren Street, Auburn, Indiana 46706 for the purpose of planned demolition. The residential structure is a two story wood and wood frame structure on a full basement. 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 fifty (50) suspect asbestos bulk samples of a total of thirty-seven (37) 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) **Duct wrap (Sample 703-03):**

The estimated 40 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) **Duct boot wrap (Sample 703-06):**

The estimated 1 boot of asbestos containing duct boot wrap is located in the basement of the residential structure.

3) **Hard wall and ceiling plaster (Samples 703-15A, 703-15B, 703-15D, 703-15E, and 703-15F):**

The estimated 5,800 square feet (+/- 10%) of asbestos containing hard wall and ceiling plaster is located throughout 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) **9X9 floor tile painted gray with non-asbestos black mastic (Sample 703-02):**

The estimated 380 square feet (250 square feet under a non-asbestos wood floor) of asbestos containing 9X9 floor tile painted gray is located in the basement of the residential structure.

2) **9X9 floor tile gray with red, pink, gold, and green specks with non-asbestos black mastic (Sample 703-12):**

The estimated 225 square feet of asbestos containing 9X9 floor tile gray with red, pink, gold, and green specks is located under non-asbestos flooring in the kitchen of the residential structure.

3) Exterior tan window frame caulk (Sample 703-28):

The estimated 7 window systems with the asbestos containing tan exterior window caulk are located on the exterior parameter basement windows 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
 703 SOUTH VAN BUREN STREET
 AUBURN, INDIANA 46706

DATE: SEPTEMBER 7, 2017

BY: M. DIALS / C. MICINSKI

SAMPLE #	LOCATION	SAMPLE TYPE	ASBESTOS	FRIABLE/ NON-FRIABLE
703 - 01	BASEMENT	WINDOW GLAZING	NONE DETECTED	N/A
703 - 02	BASEMENT	BROWN 9X9 FLOOR TILE PAINTED GRAY WITH BLACK MASTIC	FLOOR TILE: 2% CHRYSOTILE MASTIC: NONE DETECTED	CATEGORY I NON-FRIABLE N/A
703 - 03	BASEMENT	DUCT WRAP	44% CHRYSOTILE	REGULATED FRIABLE
703 - 04A	BASEMENT	PLASTER COATING AROUND CHIMNEY	NONE DETECTED	N/A
703 - 04B	BASEMENT	PLASTER COATING AROUND CHIMNEY	NONE DETECTED	N/A
703 - 04C	BASEMENT	PLASTER COATING AROUND CHIMNEY	NONE DETECTED	N/A
703 - 05	BASEMENT	CHIMNEY BRICK MORTAR	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

BULK SAMPLE SUMMARY AND LOCATIONS

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

LOCATION: RESIDENTIAL STRUCTURE
 703 SOUTH VAN BUREN STREET
 AUBURN, INDIANA 46706

DATE: SEPTEMBER 7, 2017

BY: M. DIALS / C. MICINSKI

SAMPLE #	LOCATION	SAMPLE TYPE	ASBESTOS	FRIABLE/ NON-FRIABLE
703 - 06	BASEMENT	DUCT BOOT WRAP	46% CHRYSOTILE	REGULATED FRIABLE
703 - 07	BASEMENT	CHIMNEY FLUE EXHAUST PACKING	NONE DETECTED	N/A
703 - 08	BASEMENT	HOT WATER EXHAUST FLUE PACKING	NONE DETECTED	N/A
703 - 09	KITCHEN	BROWN AND SILVER SELF-ADHESIVE LINOLEUM	NONE DETECTED	N/A
703 - 10	KITCHEN	CERAMIC TILE, GROUT, AND ADHESIVE	NONE DETECTED	N/A
703 - 11	KITCHEN	WHITE 4"X4" CERAMIC TILE BACK-SPLASH, GLUE, AND GROUT	NONE DETECTED	N/A
703 - 12	KITCHEN	9X9 FLOOR TILE GRAY WITH RED, PINK, GOLD, AND GREEN SPECKS WITH BLACK MASTIC (UNDER KITCHEN FLOORING)	FLOOR TILE: 3% CHRYSOTILE MASTIC: NONE DETECTED	CATEGORY I NON-FRIABLE 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
 703 SOUTH VAN BUREN STREET
 AUBURN, INDIANA 46706

DATE: SEPTEMBER 7, 2017

BY: M. DIALS / C. MICINSKI

SAMPLE #	LOCATION	SAMPLE TYPE	ASBESTOS	FRIABLE/ NON-FRIABLE
703 - 13	LIVING ROOM	REFRACTORY BREAK IN FIREPLACE SURROUND	NONE DETECTED	N/A
703 - 14	LIVING ROOM	REFRACTORY BREAK MORTAR	NONE DETECTED	N/A
703 - 15A	1 ST FLOOR DINING ROOM NORTH WALL	HARD WALL AND CEILING PLASTER	3% CHRYSOTILE	REGULATED FRIABLE
703 - 15B	LIVING ROOM SOUTH WALL	HARD WALL AND CEILING PLASTER	2% CHRYSOTILE	REGULATED FRIABLE
703 - 15C	LIVING ROOM CEILING	HARD WALL AND CEILING PLASTER	NONE DETECTED	N/A
703 - 15D	1 ST FLOOR FAMILY ROOM WEST WALL	HARD WALL AND CEILING PLASTER	3% CHRYSOTILE	REGULATED FRIABLE
703 - 15E	SOUTHWEST WALL OF 2 ND FLOOR STAIRWELL LANDING	HARD WALL AND CEILING PLASTER	2% CHRYSOTILE	REGULATED FRIABLE

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
 703 SOUTH VAN BUREN STREET
 AUBURN, INDIANA 46706

DATE: SEPTEMBER 7, 2017

BY: M. DIALS / C. MICINSKI

SAMPLE #	LOCATION	SAMPLE TYPE	ASBESTOS	FRIABLE/ NON-FRIABLE
703 – 15F	2 ND FLOOR SOUTHEAST CORNER BEDROOM NORTH WALL	HARD WALL AND CEILING PLASTER	3% CHRYSOTILE	REGULATED FRIABLE
703 – 15G	2 ND FLOOR SOUTHEAST CORNER BEDROOM CEILING	HARD WALL AND CEILING PLASTER	NONE DETECTED	N/A
703 – 16	1 ST FLOOR BATHROOM	6X6 WHITE SHOWER SURROUND CERAMIC TILE, GROUT, AND ADHESIVE	NONE DETECTED	N/A
703 – 17	1 ST FLOOR BATHROOM	WHITE AND BLACK SQUARE PATTERN CERAMIC TILE, GROUT, AND ADHESIVE	NONE DETECTED	N/A
703 – 18	2 ND FLOOR BATHROOM	TAN AND BROWN SHOWER SURROUND CERAMIC TILE, GROUT, AND ADHESIVE	NONE DETECTED	N/A
703 – 19	2 ND FLOOR BATHROOM	TAN AND BROWN MARBLE DESIGN CERAMIC FLOOR TILE, GLUE, AND GROUT	NONE DETECTED	N/A
703 – 20A	KITCHEN EAST WALL	DRYWALL WALL, TAPE, AND COMPOUND	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
 703 SOUTH VAN BUREN STREET
 AUBURN, INDIANA 46706

DATE: SEPTEMBER 7, 2017

BY: M. DIALS / C. MICINSKI

SAMPLE #	LOCATION	SAMPLE TYPE	ASBESTOS	FRIABLE/ NON-FRIABLE
703 – 20B	1 ST FLOOR BATHROOM EAST WALL	DRYWALL WALL, TAPE, AND COMPOUND	NONE DETECTED	N/A
703 – 20C	KITCHEN CEILING	DRYWALL WALL, TAPE, AND COMPOUND	NONE DETECTED	N/A
703 – 20D	2 ND FLOOR BATHROOM WEST WALL	DRYWALL WALL, TAPE, AND COMPOUND	NONE DETECTED	N/A
703 – 20E	2 ND FLOOR SOUTH WEST CORNER BEDROOM EAST WALL	DRYWALL WALL, TAPE, AND COMPOUND	NONE DETECTED	N/A
703 – 21A	KITCHEN NORTH WALL	SPANISH LACE WALL TEXTURE	NONE DETECTED	N/A
703 – 21B	KITCHEN NORTH WALL	SPANISH LACE WALL TEXTURE	NONE DETECTED	N/A
703 – 21C	KITCHEN NORTH WALL	SPANISH LACE WALL TEXTURE	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
 703 SOUTH VAN BUREN STREET
 AUBURN, INDIANA 46706

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

SAMPLE #	LOCATION	SAMPLE TYPE	ASBESTOS	FRIABLE/ NON-FRIABLE
703 - 22A	KITCHEN CEILING	CEILING TEXTURE MATERIAL	NONE DETECTED	N/A
703 - 22B	KITCHEN CEILING	CEILING TEXTURE MATERIAL	NONE DETECTED	N/A
703 - 22C	KITCHEN CEILING	CEILING TEXTURE MATERIAL	NONE DETECTED	N/A
703 - 23	LIVING ROOM	WHITE FLOOR FILLER UNDER CERAMIC FLOOR TILE IN FRONT OF FIREPLACE	NONE DETECTED	N/A
703 - 24A	DINING ROOM	SWIRL DESIGN CEILING TEXTURE	NONE DETECTED	N/A
703 - 24B	LIVING ROOM	SWIRL DESIGN CEILING TEXTURE	NONE DETECTED	N/A
703 - 24C	2 ND FLOOR STAIRWELL LANDING	SWIRL DESIGN CEILING TEXTURE	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

BULK SAMPLE SUMMARY AND LOCATIONS

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

LOCATION: RESIDENTIAL STRUCTURE
 703 SOUTH VAN BUREN STREET
 AUBURN, INDIANA 46706

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

SAMPLE #	LOCATION	SAMPLE TYPE	ASBESTOS	FRIABLE/ NON-FRIABLE
703 - 25A	2 ND FLOOR SOUTHWEST CORNER BEDROOM	SPANISH LACE CEILING TEXTURE	NONE DETECTED	N/A
703 - 25B	2 ND FLOOR SOUTHWEST CORNER BEDROOM	SPANISH LACE CEILING TEXTURE	NONE DETECTED	N/A
703 - 25C	2 ND FLOOR SOUTHWEST CORNER BEDROOM	SPANISH LACE CEILING TEXTURE	NONE DETECTED	N/A
703 - 26	ATTIC	GRAY FIBROUS BLOWN-IN ATTIC INSULATION	NONE DETECTED	N/A
703 - 27	EXTERIOR	FOIL AND PAPER HOUSE WRAP UNDER ALUMINUM SIDING	NONE DETECTED	N/A
703 - 28	BASEMENT EXTERIOR	TAN WINDOW FRAME CAULKING	3% CHRYSOTILE	CATEGORY I NON-FRIABLE
703 - 29	EXTERIOR	GRAY BLOWN-IN WALL INSULATION	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

BULK SAMPLE SUMMARY AND LOCATIONS

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

LOCATION: RESIDENTIAL STRUCTURE
 703 SOUTH VAN BUREN STREET
 AUBURN, INDIANA 46706

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

SAMPLE #	LOCATION	SAMPLE TYPE	ASBESTOS	FRIABLE/ NON-FRIABLE
703 - 30	EXTERIOR	WINDOW GLAZING	NONE DETECTED	N/A
703 - 31	ROOF OF HOUSE	ASPHALT BASE ROOF SHINGLE	NONE DETECTED	N/A
703 - 32	2 ND FLOOR SOUTHWEST CORNER BEDROOM	INTERIOR WINDOW GLAZING	NONE DETECTED	N/A
703 - 33	GARAGE EXTERIOR	FIBER BOARD UNDER ALUMINUM SIDING	NONE DETECTED	N/A
703 - 34	GARAGE EXTERIOR	ASPHALT BASE ROOF SHINGLE (TOP LAYER)	NONE DETECTED	N/A
703 - 35	GARAGE EXTERIOR	ASPHALT BASE ROOF SHINGLE (MIDDLE LAYER)	NONE DETECTED	N/A
703 - 36	GARAGE EXTERIOR	ASPHALT BASE ROOF SHINGLE (BOTTOM LAYER)	NONE DETECTED	N/A
703 - 37	GARAGE EXTERIOR	FELT PAPER UNDER ROOFING 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
AC = Actinolite
AN = Anthophyllite
C = Chrysotile
CR = Crocidolite
T = Tremolite
---- = No Asbestos Detected

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
703 South Van Buren Street
Auburn, IN 46706

Sample Date: 9/7/17
Analysis Date: 9/8/17
ACM PROJECT #: 27313

CLIENT SAMPLE #	LAB SAMPLE #	SAMPLE IDENTIFICATION	ASBEST	CELL	NON FIB NON ACBM	FIB NON ACBM
703-01	1711906	WHITE FLAKY MATL	----	----	100%	----
703-02	1711907	LIGHT BROWN GRAINY MATL	2% C	----	98%	----
703-02	1711907A	DARK BROWN/BLACK ADHESIVE MATL	----	----	100%	----
703-03	1711908	WHITE FIBROUS MATL	44% C	56%	----	----
703-04A	1711909	GREY GRANULAR MATL	----	----	100%	----
703-04B	1711910	GREY GRANULAR MATL	----	----	100%	----
703-04C	1711911	GREY GRANULAR MATL	----	----	100%	----
703-05	1711912	GREY/WHITE GRAINY MATL	----	----	100%	----
703-06	1711913	GREY/WHITE FIBROUS MATL	46% C	54%	----	----
703-07	1711914	GREY GRANULAR MATL	----	----	100%	----
703-08	1711915	RED/BROWN GRANULAR MATL	----	----	100%	----
703-09	1711916	DARK GREY/BLACK PLIABLE MATL	----	----	70%	30% G
703-10	1711917	RED/BROWN/GREY GRAINY MATL	----	----	100%	----
703-11	1711918	WHITE GRAINY MATL	----	----	100%	----
703-12	1711919	GREY GRAINY MATL	3% C	----	97%	----
703-12	1711919A	DARK BROWN/BLACK ADHESIVE MATL	----	----	100%	----
703-13	1711920	RED/BROWN GRAINY MATL	----	----	100%	----
703-14	1711921	RED/BROWN GRANULAR MATL	----	----	100%	----
703-15A	1711922	GREY/WHITE GRAINY MATL	3% C	----	95%	2% H
703-15B	1711923	GREY/WHITE GRAINY MATL	2% C	----	95%	3% H
703-15C	1711924	WHITE FLAKY MATL	----	8%	92%	----
703-15D	1711925	GREY/WHITE GRAINY MATL	3% C	----	94%	3% H
703-15E	1711926	GREY/WHITE GRAINY MATL	2% C	----	96%	2% H
703-15F	1711927	GREY/WHITE GRAINY MATL	3% C	----	94%	3% H
703-15G	1711928	WHITE FLAKY MATL	----	11%	89%	----
703-16	1711929	TAN GRAINY MATL	----	----	100%	----
703-17	1711930	WHITE/BLACK/TAN GRAINY MATL	----	----	100%	----
703-18	1711931	TAN/WHITE GRAINY MATL	----	----	100%	----
703-19	1711932	TAN/WHITE GRAINY MATL	----	----	100%	----

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

Microscopist: Jamy Malae

Title: Laboratory Director

Date: 9/8/17

**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
703 South Van Buren Street
Auburn, IN 46706

Sample Date: 9/7/17
Analysis Date: 9/8/17
ACM PROJECT #: 27313

CLIENT SAMPLE #	LAB SAMPLE #	SAMPLE IDENTIFICATION	ASBEST	CELL	NON FIB NON ACBM	FIB NON ACBM
703-20A	1711933	WHITE FLAKY MATL	----	16%	84%	----
703-20B	1711934	WHITE FLAKY MATL	----	12%	88%	----
703-20C	1711935	WHITE FLAKY MATL	----	23%	77%	----
703-20D	1711936	WHITE FLAKY MATL	----	7%	93%	----
703-20E	1711937	WHITE FLAKY MATL	----	19%	81%	----
703-21A	1711938	BROWN/WHITE FLAKY MATL	----	----	100%	----
703-21B	1711939	BROWN/WHITE FLAKY MATL	----	----	100%	----
703-21C	1711940	BROWN/WHITE FLAKY MATL	----	----	100%	----
703-22A	1711941	WHITE FLAKY MATL	----	----	100%	----
703-22B	1711942	WHITE FLAKY MATL	----	----	100%	----
703-22C	1711943	WHITE FLAKY MATL	----	----	100%	----
703-23	1711944	WHITE GRAINY MATL	----	----	100%	----
703-24A	1711945	WHITE FLAKY MATL	----	----	100%	----
703-24B	1711946	WHITE FLAKY MATL	----	----	100%	----
703-24C	1711947	WHITE FLAKY MATL	----	----	100%	----
703-25A	1711948	WHITE FLAKY MATL	----	----	100%	----
703-25B	1711949	WHITE FLAKY MATL	----	----	100%	----
703-25C	1711950	WHITE FLAKY MATL	----	----	100%	----
703-26	1711951	GREY/WHITE FIBROUS MATL	----	----	----	100% G
703-27	1711952	SILVER METALLIC MATL	----	39%	61%	----
703-28	1711953	WHITE FLAKY MATL	3% C	----	97%	----
703-29	1711954	GREY/BROWN FIBROUS MATL	----	100%	----	----
703-30	1711955	WHITE FLAKY MATL	----	----	100%	----
703-31	1711956	BLACK FIBROUS MATL	----	52%	30%	18% G
703-32	1711957	YELLOW/WHITE FLAKY MATL	----	----	100%	----
703-33	1711958	DARK BROWN/BLACK FIBROUS MATL	----	89%	11%	----
703-34	1711959	BLACK FIBROUS MATL	----	63%	37%	----
703-35	1711960	BLACK FIBROUS MATL	----	53%	29%	18% G
703-36	1711961	BLACK FIBROUS MATL	----	55%	28%	17% G

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

Microscopist: Jamy MahueTitle: Laboratory DirectorDate: 9/8/17



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
703 South Van Buren Street
Auburn, IN 46706

Sample Date: 9/7/17
Analysis Date: 9/8/17
ACM PROJECT #: 27313

CLIENT SAMPLE #	LAB SAMPLE #	SAMPLE IDENTIFICATION	ASBEST	CELL	NON FIB NON ACBM	FIB NON ACBM
703-37	1711962	BLACK FIBROUS MATL	----	93%	7%	----

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

Microscopist: Jamy Malau

Title: Laboratory Director

Date: 9/8/17

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 260-483-9795	EMAIL medials@damenw.com	SAMPLED BY M. Diels, K. Menicki		
ADDRESS 3326 County Road 427		STATE Indiana	PROJECT NAME & LOCATION Residential Structure 703 South Van Buren Street Auburn, Indiana 46706				
CITY Waterloo	ZIP 46793						
SAMPLE IDENTIFICATION		DATE COLLECTED	SAMPLE TYPE BULK/AIR/WIPE	REQUESTED ANALYSIS			
703-01	703-11	703-17	Bulk	Asbestos by PUV			
02	-12	18					
03	-13	19					
04A	-14	20A					
04B	-15A	20B					
04C	15B	20C					
05	15C	20D					
06	15D	20E					
07	15E	21A					
08	15F	21B					
09	15G	21C					
10	16	22A					
TRANSFER NO.	RELINQUISHED BY	DATE	TIME	ACCEPTED BY	DATE	TIME	CONDITION
1	[Signature]	9/7/17		Christina Vito	9/17/17	9:15	Good
2	[Signature]	9/8/17					
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

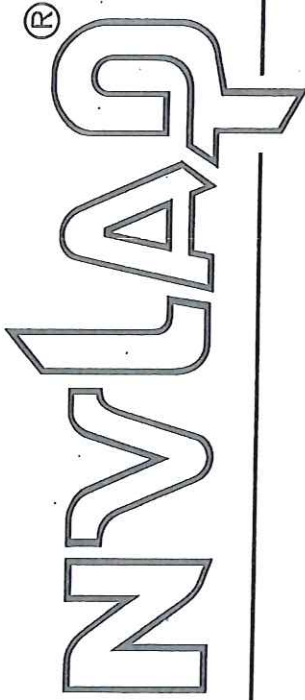
18/A03

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. Haman".

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 Communiqué dated January 2009).*

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

For the National Voluntary Laboratory Accreditation Program

2017-07-01 through 2018-06-30
Effective Dates

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