ASBESTOS INSPECTION

109-111 N. Taylor Street
South Bend, Indiana

Project No. 2011-5055

July 25, 2011

Prepared For:

CITY OF SOUTH BEND
Community and Economic Development
227 W. Jefferson Blvd.
South Bend, Indiana 46601

Prepared By:

WIGHTMAN PETRIE
412 S. Lafayette Blvd.
South Bend, Indiana 46601

WIGHTMAN PETRIE

SURVEYING ENGINEERING ENVIRONMENTAL LANDSCAPE ARCHITECTURE

ASBESTOS INSPECTION PRIOR TO DEMOLITION
REPORT OF FINDINGS

July 25, 2011

Report For: City of South Bend
Department of Economic Development
County-City Building, Suite 1200
227 W. Jefferson Blvd.
South Bend, Indiana 46601

Subject Site Address: 109-111 N. Taylor Street
South Bend, Indiana 46601

Date of Inspection: July 14, 2011

Date of Laboratory Report of Analysis: July 18, 2011

SITE DESCRIPTION

The subject property is identified by the address 109-111 N. Taylor Street, South Bend, Indiana or by Parcel ID 71-08-11-206-030.000-026, and consists of 0.13 acres that has been developed with the 1954 construction of a wood framed, concrete block and brick veneer, commercial structure with flat roof. Paved parking areas are present on the south and west side of the building. Access to the parking areas is from Taylor Street on the east side of the property. The most recent tenant of the facility, which is currently vacant, was Nationwide Janitorial Service. Having recently acquired the property, the City of South Bend intends to demolish the existing structure to allow for future re-development activity.

The existing structure consists of approximately 1,500 square feet under roof, with an additional 1,375 sq. ft. as a poured concrete basement. The main level of the structure has been subdivided into a series of offices, whereas the basement appears to have served as a combination of offices and general storage.

WIGHTMAN PETRIE
SURVEYING ENGINEERING ENVIRONMENTAL LANDSCAPE ARCHITECTURE

412 S. Lafayette Blvd. • South Bend, IN 46601 p: 574.232.4388 f: 574.232.4333

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The interior walls of the upper level are constructed primarily with wood framing and drywall. Flooring for the offices is predominately carpet, although the break room area and at least one (1) of the bathrooms are covered by vinyl tiling. A second bathroom had ceramic tile flooring. Lay-in acoustical ceiling tile is present throughout the main level. The basement area is subdivided into several larger sized rooms, with construction consisting of wood framing, drywall and some level of wood paneling. Lay-in acoustical ceiling tile is present throughout the majority of the basement, as is vinyl floor tiling. The mechanical room and a general storage room within the basement were not finished. Heating systems consist of a combination of forced air natural gas furnace, and to a very limited degree baseboard electrical heating. Air conditioning is provided through a combination of wall units and a central air system. The property is connected to city sewer and gas.

SUMMARY OF INSPECTION RESULTS

The following materials were deemed by the analytical laboratory to be negative for the presence of asbestos:

Sample No.	ID No.	Homogeneous Area Description, Sample Description
109-1	1107260	Friable, Yellow Fibrous Material, Acoustic Ceiling Tile
109-2	1107261	Friable, Brown Fibrous Material, Top Layer Ceiling Tile
109-3	1107262	Friable, White Fibrous Material, Ceiling Tile
109-4	1107263	Friable, White Fibrous Material, Fiber Wall Coat
109-5	1107264	Friable, Brown Fibrous Material, Wall Insulation
109-6	1107265	Friable, White Flaky Material, Drywall
109-7	1107266	Non-Friable, Tan Adhesive Material, Carpet Glue
109-8	1107267	Friable, White Flaky Material, Drywall
109-9	1107268	Non-Friable, Green/Grey Solid Material, Bathroom Ceramic Floor Tile
109-10	1107269	Non-Friable, Light Blue Solid Material, Back Bathroom Floor Tile
109-10	1107269A	Non-Friable, Tan Adhesive Material, Mastic
109-11	1107270	Friable, Brown Fibrous Material, Bottom Layer Back Hallway Tile
109-11	1107270A	Non-Friable, Tan/Black Adhesive Material, Mastic
109-12	1107271	Non-Friable, White Solid Material, Top Layer Hallway Tile
109-12	1107271A	Non-Friable, Black Adhesive Material, Mastic
109-14	1107273	Friable, Light Brown Fibrous Material, Basement Ceiling Tile
109-15	1107274	Non-Friable, Black Pliable Material, Basement Baseboard
109-15	1107274A	Non-Friable, Yellow Adhesive Material, Mastic
109-16	11072675	Friable, White Flaky Material, Basement Drywall
109-17	1107276	Friable, White Flaky Material, Basement Drywall
109-18	1107277	Friable, White Flaky Material, Basement Ceiling Drywall

The following materials were deemed by the analytical laboratory to contain asbestos:

Sample No.	ID No.	Homogeneous Area Description, Sample Description	Category (I or II)[1]	Area/Volume[2], % Asbestos
109-13	1107272	Non-Friable, Dark Brown Solid Material, Basement Floor Tile	Category I Non-Friable	Chrysotile 3% **140 square feet**
109-13	1107272A	Non-Friable, Black Adhesive Material, Mastic	Category I Non-Friable	Chrysotile 3% **140 square feet**

Please note that Wightman Petrie did not sample the flat roof of the building to prevent the potential for leakage as a result of temporary patching, and as a safety precaution, not knowing the condition of the roof. All roofing materials should therefore be assumed positive, as Category I Non-Friable ACM (approximately 1,500 sq. ft.).

Locations for each sample can be found in Appendix A – Sample Location Map.

1. CONCLUSIONS AND RECOMMENDATIONS

Wightman Petrie was retained by the City of South Bend to perform an asbestos inspection prior to a demolition of a commercial building identified as 109-111 Taylor Street, South Bend, Indiana. Laboratory analysis of Suspect Asbestos Containing Materials sampled and submitted by Wightman Petrie confirmed that asbestos is present in the structure to be demolished, and that such asbestos is present in a quantity greater than 1%, the established Action Level. Such materials consist of resilient floor covering and asphalt roofing materials, both of which are considered to be classified as Category 1, Non-friable, Asbestos-Containing Materials.

By regulation, Category I, Non-friable, ACM is any asbestos-containing packing, gasket, resilient floor covering or asphalt roofing product which contains more than one percent (1%) asbestos as determined using polarized light microscopy (PLM) according to the method specified in Appendix A, Subpart F, 40 CFR Part 763. (Sec. 61.141). Category I, Non-friable, ACM must be inspected and tested for friability if it is in poor condition before demolition to determine whether or not it is subject to the Asbestos NESHAP.

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[1] Category I material is defined as asbestos-containing resilient floor covering, asphalt roofing products, packings and gaskets. Asbestos-containing mastic is also considered a Category I material (EPA determination - April 9, 1991). Category II material is defined as all remaining types of non-friable ACM not included in Category I that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure. Non-friable asbestos-cement products such as transite are an example of Category II material.

[2] De minimis amounts which trigger the "notification-only" requirements of paragraphs 40 CFR 61.145 (b)(1), (2), (3)(i) and (iv), and (4)(i) through (vii) and (4)(ix) and (xvi) are: RACM Less than 260 linear feet on pipes and less than 160 square feet on other facility components (and less than 35 cubic feet of facility components where the length or area could not be measured previously or there is no asbestos). Indiana requires use of a licensed contractor for removal of friable (or potentially friable) asbestos-containing materials (ACM) when quantities exceed 3.0 linear feet for Thermal System Insulation (TSI)-wrapped duct, or 3.0 square feet of ACM, or 0.75 cubic feet of ACM.

Asbestos-containing packings, gaskets, resilient floor coverings and asphalt roofing materials must be removed before demolition only if they are in poor condition and are friable. A licensed abatement contractor is not required to remove Category 1, Non-friable Materials that will not become friable during the demolition process.

Wightman Petrie has assumed that the demolition process for the structure will be performed by excavator, with subsequent loading of demolition debris into trucks for transport to a local landfill. As such, we have assumed that there will be no sanding, grinding or cutting activity that could result in the emission of asbestos-containing fibers, in violation of the asbestos NESHAPS criteria. If sanding, grinding or cutting of such asbestos containing materials is planned, then the identified materials must be removed prior to demolition.

Notification is required. Notification to the Indiana Department of Environmental Management (IDEM) is accomplished by submitting Form 44593 (IDEM Notification of Demolition and Renovation Operations). A copy of Form 44593 is included with this report. The report must be filed with the IDEM, Office of Air Quality (OAQ) Compliance Branch:

IDEM, OAQ Compliance Branch
100 N. Senate Ave.
Mail Code 61-53 IGCN 1003
Indianapolis, IN 46204-2251

Form 44593 may be submitted by fax to 317-233-6865. IDEM's contact for these notices is Mr. John Clevenger, Environmental Manager. His telephone number is 317-233-6880. His e-mail address is jcleveng@idem.in.gov.

2. BACKGROUND

Wightman Petrie conducted a pre-demolition survey for the presence of Asbestos-Containing Materials (ACMs) at the location identified as 601-605 Washington Street in South Bend, Indiana. Our survey was conducted on July 14, 2011, with results reported by the laboratory on July 15, 2011.

The investigator and inspector responsible for this project is Conley Phifer, who holds a license issued by the State of Indiana, Department of Environmental Management.

License No:	19A002353
Profession:	Asbestos
License Type:	Asbestos Inspector
Obtained By Method:	Application
Issue Date:	August 16, 2010
Expiration Date:	August 16, 2011
License Status:	Active

3. FIELD PROCEDURES AND ANALYSIS METHODOLOGY

Guidelines used for the inspection were based on those established by the Environmental Protection Agency (EPA) in the Guidance for Controlling Asbestos Containing Materials in Buildings, Office of Pesticides and Toxic Substances, DOC #560/5-85-024 and 40 CFR Part 763, Asbestos Hazard Emergency Response Act (AHERA), and by 40 CFR, § 61.145 (National Emission Standard for Hazardous Air Pollutants, Asbestos, Standard for Demolition and Renovation).

Field information was organized as per the AHERA concept of Homogeneous Area (HA). An HA is defined as a suspect material of similar age, appearance, function and texture. Each material represents a specific HA, sampled and then assessed for condition. Bulk samples of suspect ACM were analyzed by Polarized Light Microscopy (PLM) with dispersion staining, as described in 40 CFR Part 763 and the National Emissions Standard for Hazardous Air Pollutants (NESHAP), 40 CFR Part 61, Subpart M. Please note that sample 109-12 (Lab # 1107271) was initially reported as 2% Chrysotile; however subsequent analysis by the laboratory using point-counting methodologies resulted in a "negative" determination for the presence of asbestos.

4. SCOPE OF WORK

The structure, including areas both interior and exterior, was inspected for ACM. The inspection was characterized by a close visual inspection of all accessible areas.

Materials examined included:

1. Surfacing Materials (ceilings, interior and exterior walls and their backing materials, multiple roofing materials)
2. Insulating Materials
3. Miscellaneous Materials (for friability)

5. SUMMARY OF FILE SEARCH

As the structure has clearly not been used for manufacturing purposes, (commercial office building) and the entire structure is to be demolished, no document search was conducted.

6. INSPECTION RESULTS

The asbestos inspection involved a thorough visual examination of all areas and sampling of suspect materials. ACM Engineering and Environmental Services, certified by the National Voluntary Laboratory Accreditation Program (NVLAP Lab Code 101977), performed analysis of bulk samples collected during the inspection using Polarized Light Microscopy (PLM) and the central stop dispersion testing method. The results are summarized on the first and second pages of this report. As previously indicated, the laboratory applied point—counting methodologies in the "negative" determination of Sample 109-12 (Lab # 1107271), which was initially reported as 2% Chrysotile through PLM analysis.

7. ASBESTOS QUANTITY SCHEDULE:

Please see Page 2 of this report, where the quantity of ACM is presented. Also note that the existing asphalt roofing materials are assumed to be a Category 1, Non-friable Asbestos Containing Material, totaling approximately 1,500 sq. ft.

8. AREAS NOT ACCESSIBLE:

Wightman Petrie inspected and sampled materials which were observable and accessible to the survey team. Suspect ACMs that have not been sampled and tested and found negative for asbestos (if any) must be assumed ACM until and unless they are tested.

The term "suspect ACM" would include materials discovered in the course of demolition, which only become visible during demolition. One example is Thermal System Insulation (TSI) which may be found on vertical duct runs through walls or beneath the existing concrete slab (however; we do note that mechanical systems for the facility included electric baseboard heaters). If such materials are discovered during demolition, demolition should be halted immediately, and Wightman Petrie should be contacted so that we may sample the suspect ACM in question. Only after laboratory analysis has been conducted on these samples and reported to you should regulatory-appropriate demolition continue.

9. REPORT CERTIFICATION

Wightman Petrie certifies that the information contained herein is based on the physical and visual inspections conducted by Wightman Petrie and data collected during the inspection survey.

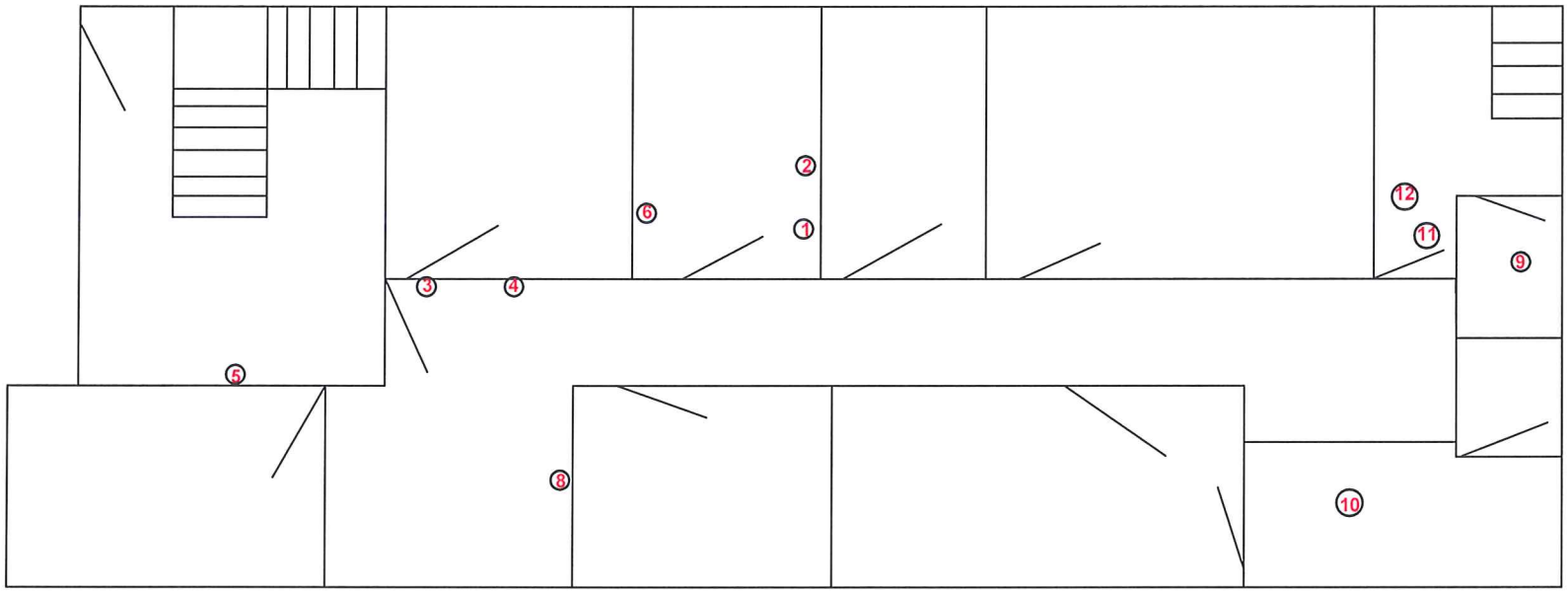
Conley B. Phifer III
Wightman Petrie, Inc.
Asbestos License 19A002353

LIST OF ATTACHMENTS

A – Site Drawing, including Sample Locations
B – Analytical Datasheets/Chain of Custody
C – IDEM Form 44593

H:\2011 Projects\2011-5055\Asbestos\Asbestos Report Taylor_7-25-11.doc

Figures



1 FIRST FLOOR PLAN
SCALE: 1/8"=1'-0"

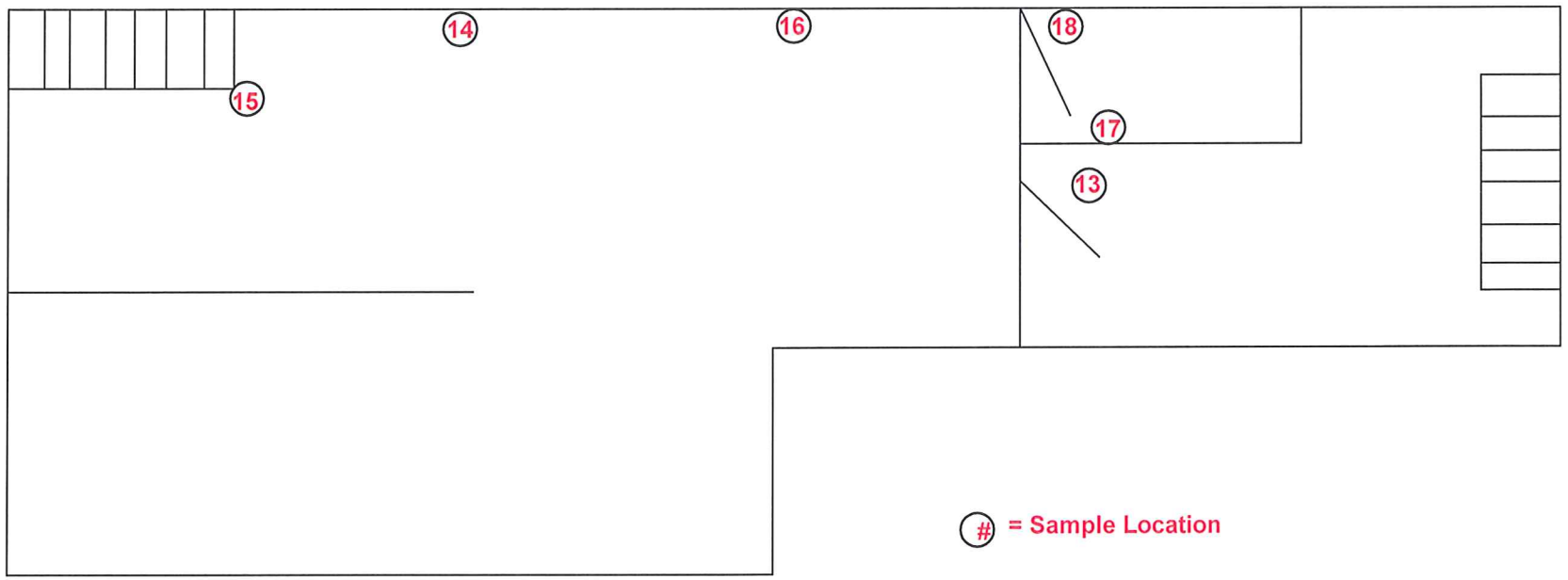
N

(#) = Sample Location

WIGHTMAN PETRIE
SURVEYING ENGINEERING ENVIRONMENTAL LANDSCAPE ARCHITECTURE
412 South Lafayette Blvd. South Bend IN 46601 p: 574.232.4388 f: 574.232.4333

109 N. TAYLOR ST.

JOB NUMBER:	2011-5055
DATE:	7-15-2011
SCALE:	1/8" = 1'-0"
FIRST FLOOR PLAN	



1 BASEMENT PLAN
SCALE: 1/8"=1'-0"

N

WIGHTMAN PETRIE
SURVEYING ENGINEERING ENVIRONMENTAL LANDSCAPE ARCHITECTURE
412 South Lafayette Blvd. South Bend IN 46601 p: 574.232.4388 f: 574.232.4333

109 N. TAYLOR ST.

JOB NUMBER:	2011-5055
DATE:	7-15-2011
SCALE:	1/8" = 1'-0"

BASEMENT FLOOR PLAN

Analytical Data/Chain of Custody

ANALYSIS OF SUSPECT ASBESTOS CONTAINING BUILDING MATERIALS

FOR:

WIGHTMAN PETRIE
412 S LAFAYETTE
SOUTH BEND, IN 46601

LOCATION:

109 N TAYLOR

ACM ENGINEERING & ENVIRONMENTAL SERVICES
PROJECT#: 17778

DATE OF REPORT:

JULY 18, 2011

PREPARED BY:

ACM ENGINEERING & ENVIRONMENTAL SERVICES
26598 U.S. 20 WEST
SOUTH BEND, IN 46628

NVLAP LAB CODE: 101977

INTRODUCTION:
In July 2011, ACM Engineering & Environmental Services received bulk samples of suspect asbestos containing building material from Wightman Petrie. These are to be analyzed by ACM Engineering & Environmental Services for possible asbestos content.

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 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 in the sample or sub-sample.

The fifth column indicates the types and percentages of non-asbestos identified in the sample or sub-sample.

The sixth column indicates the types and percentages of non-asbestos, non-fibrous material in the sample or sub-sample.

The seventh column indicates the types and percentages of non-asbestos fibrous material in the sample or sub-sample. Fibrous material will not necessarily total 100% of the sample.

There will be dashes (----) in each column when nothing is detected.

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.

The method utilizes stereoscopical examination of the bulk samples, as well as utilizing the polarized light microscope and the central stop dispersion staining method.

If applicable, please be advised that the Stereo Scope/PLM methods have limitations regarding floor tile analysis for asbestos content. Historically, the production of floor tile has included the grinding of asbestos into submicroscopic portions. Therefore, this method of analysis may produce incorrect results for tests of floor tile which produce negative finding for asbestos.

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.

Sub-samples are prepared if needed. Any fibrous material is mounted in high dispersion oil for further microscope examination utilizing polarized light microscopy. 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.

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.

The percentage of asbestos and other fibrous materials are then determined according to sample area coverage and thickness. The limit of qualification 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.

ASBESTOS CHARACTERIZATION:
The features of the various forms of asbestos are as follows:

CHRYSOTILE: Thin fibers and fiber bundles with both straight and wavy sections. The ends of bundles tend to be frayed. Sign of elongation is positive, refractive indices are 1.493-1.560 (alpha) and 1.668-1.717 (gamma), and birefringence of 0.009-0.016. It is commonly referred to as white asbestos.

AMOSITE: Straight thin single fibers and bundles of such fibers usually with cleanly broken ends on individual fibers, positive sign of elongation, refractive indices of 1.653-1.696 (alpha) and 1.655-1.729 (gamma), and birefringence of 0.020-0.033. Fibers exhibit parallel extinction.

CROCIDOLITE: Similar in morphology to amosite, but is distinguished by negative sign of elongation, blue to blue-green pleochroic coloration, refractive indices of 1.654-1.701 (alpha) and 1.668-1.717 (gamma), and birefringence of 0.009-0.016. It is commonly referred to as blue asbestos.

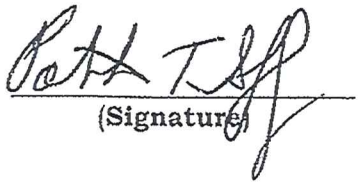
ANTHOPHYLITE: Similar in morphology to amosite, but has refractive indices of 1.596-1.652 (alpha) and 1.615-1.676 (gamma), anthophylite fibers show parallel extinction and positive sign of elongation.

TREMOLITE/ACTINOLITE SERIES:
Transparent, elongated furrowed prisms, usually with uneven, jagged ends and smooth sides, with oblique (0-20 degree) to parallel extinction and positive elongation; refractive indices are 1.599-1.668 (alpha) and 1.622-1.688 (gamma) and birefringence is 0.020-0.028.

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.

Report prepared by: **Patrick T. Griffin**



(Signature)

ACM Engineering & Environmental Services
President/CEO

Analysis of Suspect Asbestos Containing Building Materials

CLIENT: WIGHTMAN PETRIE INC
412 S LAFAYETTE BLVD
SOUTH BEND, IN 46601

ANALYTICAL METHOD: EPA/600/R-93/116

NVLAP LAB CODE #: 101977

CLIENT PROJECT: 109 N TAYLOR

MATRIX: BULK

DATE OF SAMPLE: 07/14/11

DATE OF ANALYSIS: 07/14/11

SAMPLE SITE: 109 N TAYLOR
SOUTH BEND, IN

ACM PROJECT #: 17778

CLIENT SAMPLE NUMBER	LAB SAMPLE NUMBER	SAMPLE IDENTIFICATION	ASBEST	CELL	NON FIB NON ACBM	FIB NON ACBM
109-1	1107260	YELLOW FIBROUS MATERIAL	-----	-----	10%	90% G
109-2	1107261	BROWN FIBROUS MATERIAL	-----	-----	9%	91% G
109-3	1107262	WHITE FIBROUS MATERIAL	-----	8%	11%	81% G
109-4	1107263	WHITE FIBROUS MATERIAL	-----	-----	29%	71% CO
109-5	1107264	BROWN FIBROUS MATERIAL	-----	-----	-----	100% G
109-6	1107265	WHITE FLAKY MATERIAL	-----	14%	83%	3% G
109-7	1107266	TAN ADHESIVE MATERIAL	-----	-----	100%	-----
109-8	1107267	WHITE FLAKY MATERIAL	-----	3%	97%	-----
109-9	1107268	GREEN/GREY SOLID MATERIAL	-----	-----	100%	-----
109-10	1107269	LIGHT BLUE SOLID MATERIAL	-----	-----	100%	-----
109-10	1107269A	TAN ADHESIVE MATERIAL	-----	-----	100%	-----
109-11	1107270	BROWN FIBROUS MATERIAL	-----	50%	9%	41% CO
109-11	1107270A	TAN/BLACK ADHESIVE MATERIAL	-----	-----	100%	-----
109-12	1107271	WHITE SOLID MATERIAL	2% C	-----	98%	-----
109-12	1107271A	BLACK ADHESIVE MATERIAL	-----	3%	97%	-----
109-13	1107272	DARK BROWN SOLID MATERIAL	3% C	-----	97%	-----
109-13	1107272A	BLACK ADHESIVE MATERIAL	3% C	-----	97%	-----
109-14	1107273	LIGHT BROWN FIBROUS MATERIAL	-----	94%	6%	-----
109-15	1107274	BLACK PLIABLE MATERIAL	-----	-----	100%	-----
109-15	1107274A	YELLOW ADHESIVE MATERIAL	-----	-----	100%	-----
109-16	1107275	WHITE FLAKY MATERIAL	-----	39%	61%	-----

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

MICROSCOPIST: Tamy Malare DATE: 7/18/11

Analysis of Suspect Asbestos Containing Building Materials

CLIENT: WIGHTMAN PETRIE INC
412 S LAFAYETTE BLVD
SOUTH BEND, IN 46601

ANALYTICAL METHOD: EPA/600/R-93/116

NVLAP LAB CODE #: 101977

CLIENT PROJECT: 109 N TAYLOR

MATRIX: BULK

DATE OF SAMPLE: 07/14/11

DATE OF ANALYSIS: 07/14/11

SAMPLE SITE: 109 N TAYLOR
SOUTH BEND, IN

ACM PROJECT #: 17778

CLIENT SAMPLE NUMBER	LAB SAMPLE NUMBER	SAMPLE IDENTIFICATION	ASBEST	CELL	NON FIB NON ACBM	FIB NON ACBM
109-17	1107276	WHITE FLAKY MATERIAL	-----	37%	63%	-----
109-18	1107277	WHITE FLAKY MATERIAL	-----	39%	61%	-----

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

MICROSCOPIST: Tammy Malone DATE: 7/18/11

ACM ENGINEERING & ENVIRONMENTAL SERVICES . 26598 US 20 WEST, SOUTH BEND, INDIANA 46628
TELEPHONE (574) 234-8435 FAX (574) 234-6800

Analysis of Suspect Asbestos Containing Materials

ACM ENGINEERING & ENVIRONMENTAL SERVICES PROJECT NO.: 17778

DESCRIPTION OF ANY PROBLEMS ENCOUNTERED IN THE SAMPLE ANALYSIS: None

COMPONENTS DESCRIPTION:

ASBESTOS MATERIALS

ACBM = ASBESTOS CONTAINING BUILDING MATERIAL
C = CHRYSOTILE
A = AMOSITE
CR = CROCIDOLITE
AN = ANTHOPHYLITE
AC = ACTINOLITE
T = TREMOLITE
---- = NO ASBESTOS DETECTED

NON-ASBESTOS MATERIALS

CELL = CELLULOSE
G = FIBROUS GLASS
M = MINERAL WOOL
S = SYNTHETICS
H = HAIR
CO = COTTON
O = OTHER
CF = CERAMIC FIBERS
M = MICA
V = VERMICULITE
NON-FIB NON-ACM = NON FIBROUS NON ACBM
FIB NON ACM = FIBROUS NON ACBM

NOTES: FIBROUS QUANTITIES DO NOT NECESSARILY ADD UP TO 100%, REMAINING QUANTITIES ARE COMPOSED OF NON-FIBROUS ROCKS, BINDERS AND MISC. MATERIALS.

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.

ACM ENGINEERING & ENVIRONMENTAL SERVICES DOES NOT DEVIATE FROM THE TEST METHOD DESCRIBED IN THIS REPORT.

ACM Engineering & Environmental Services, Inc.

26598 US 20 West
South Bend, Indiana 46628
Phone (574) 234-8435
Fax (574) 234-6800

ACM Project # 17778

Suspect Asbestos Containing Building Material
Sampling - Chain-of-Custody - Analysis Request Form

AIHA Environmental Microbiology ACCREDITED LABORATORY

NVLAP

Client: Wightman Petrie
Billing Address: 412 S Lafayette
Billing City, State, Zip: South Bend, IN 46601
Report Results To: Corley P, Andrew S
Sampling Date: 7/14/11 Sampled By: CBP

Site Location:
Address: 109 N Taylor
Type of Project:
Requested Turn Around Time:
Reference Number:

Sample Identification	Sample Type (Bulk, Wipe, Other)	Sample Description	Sample Location	Requested Analysis; Instructions / Comments
109-1	Bulk	Yellow acoustic ceiling tile	Room B	PLM
109-2		Top layer ceiling tile	room B	
109-3		Ceiling tile	Hallway	
109-4		Fiber wall coat	Hallway	
109-5		Wall insulation	Front room	
109-6		Drywall	room B	
109-7		Drywall-ASS Glue Based Carpet	room E	
109-8		Drywall	front hall space	
109-9		Bathroom Ceramic Floor tile	South bathroom	
109-10		Back Bathroom Floor tile	North bathroom	
109-11		Bottom layer back hallway tile	Back hallway	
109-12		Top layer hallway tile	Back hallway	

Submitted by: (sign) Corley P. Andrew S (print) Corley P. Andrew S Date Submitted: 7/14/11
Received by: (sign) Justina Nifong (print) Justina Nifong Date and time received: 7/14/11
(For lab use only) Samples processed by: Kathy Nolan Date: 7/14/11 Time: From _____ am/pm to 300 ~~am~~/pm

ACM Engineering & Environmental Services, Inc.

26598 US 20 West
South Bend, Indiana 46628
Phone (574) 234-8435
Fax (574) 234-6800

ACM Project # 17778

Suspect Asbestos Containing Building Material
Sampling - Chain-of-Custody - Analysis Request Form

AIHA Environmental Microbiology ACCREDITED LABORATORY

NVLAP

Client: Wightman Petrie
Billing Address: 412 So Lafayette
Billing City, State, Zip: South Bend, IN 46601
Report Results To: Corley P, Andrew S
Sampling Date: 7/14/11 Sampled By: CBP

Site Location:
Address: 109 N Taylor
Type of Project:
Requested Turn Around Time:
Reference Number:

Sample Identification	Sample Type (Bulk, Wipe, Other)	Sample Description	Sample Location	Requested Analysis; Instructions / Comments
109-13	Bulk	Brown Basement Floor tile	Back room basement	PLM
109-14		Basement ceiling tile	Main room basement	
109-15		Basement Baseboard	By front stairwell	
109-16		Basement drywall	Main room basement	
109-17		Basement drywall	Closet basement	
109-18		Basement ceiling drywall	Closet basement	
~~109-19~~				

Submitted by: (sign) _____ (print) Corley B. Phifer Date Submitted: 7/14/11
Received by: (sign) Justina Nifong (print) Justina Nifong Date and time received: 7/14/11
(For lab use only) Samples processed by: Patty Malone Date: 7/14/11 Time: From _____ am/pm to 300 ~~am~~/pm

POINT COUNTING ANALYSIS OF SUSPECT ASBESTOS CONTAINING BUILDING MATERIALS

CLIENT: WIGHTMAN PETRIE
412 SOUTH LAFAYETTE
SOUTH BEND, IN 46601

CLIENT PROJECT: 109 NORTH TAYLOR

DATE OF SAMPLE: 07/14/11

SAMPLE SITE: SOUTH BEND, IN

ANALYTICAL METHOD: EPA 40CFR61
PT. 763 SUBPART E, APPENDIX E
POLARIZED LIGHT MICROSCOPY - POINT COUNTING

NVLAP LAB CODE #: 101977

DATE OF ANALYSIS: 07/14/11

ACM PROJECT #: 17778

CLIENT SAMPLE NUMBER	LAB SAMPLE NUMBER	# OF SLIDES	ASBESTOS CONCENTRATION BY POINT COUNTING	AVERAGE CONCENTRATION OF ASBESTOS PERCENTAGE
109-12	1107271	8	0/400	NO ASBESTOS DETECTED

MICROSCOPIST: Larry Malone DATE: 7/19/11

IDEM Form 44593

Indiana Department of Environmental Management
GUIDANCE FOR PREPARING ASBESTOS
DEMOLITION/RENOVATION NOTIFICATIONS

**Per Indiana Rule 326 IAC 14-10-3(1), all notifications to the IDEM must be submitted on State Form Number 44593.

Per 326 IAC 14-10-5, demolition/renovation fees will be assessed quarterly to owners/ Operators submitting notifications during the previous quarter.

I. Type of Notification -326 IAC 14-10-3(4).

A. If this is the original notice, please check the appropriate space on the notification form.

B. If this is a revised notice, please check the appropriate space on the notification form. The revised notice must be postmarked and sent by certified mail, return receipt requested, at least 5 working days or delivered at least 2 working days before the start date of asbestos stripping or removal specified in: (1) the notice being revised **and** (2) the new revised notice. Facsimiles **will** be accepted by the IDEM.

C. All revisions must include a copy of the notice being revised.

D. If this is a canceled notice, please check the appropriate space on the notification form.

E. Courtesy Notification

II. Facility Information - 326 IAC 14-10-3(3)(B) and (R)

A. Either the owner or operator must submit the notice.
B. The owner means the individual(s) who own the property or lease the property.
C. The operator means the asbestos removal contractor or demolition contractor.
D. Specify the name, address, telephone number, Indiana license number and license expiration date, of the:
   1. asbestos removal contractor,
   2. inspector who conducted the assessment prior to demolition or renovation and
   3. project designer required or asbestos projects at schools K-12, or if project designer is used for non-school projects must be licensed.

III. Type of Operation - 326-IAC 14-10-3(3)(C), (O) and (S)

A. Refer to the definitions of demolition, renovation, and emergency renovation Operation in 326-IAC 14-10-2.
B. Ordered demolitions and emergency renovation operations have additional

Notification requirements. Owner/operator must also complete Section XV or XVI of notification form.

C. Demolition by intentional burning must comply with an approved Variance from Opening Burning Regulation 326IAC 4-1.

IV. Is Asbestos Present? - Required by Federal 40 CFR Part 61, Subpart M

A. If asbestos is present, indicate "yes" in the space provided.
B. If asbestos is not present, indicate "no".

V. Procedures, Including Analytical Methods, if appropriate, Used to Detect the Presence and Amount of Asbestos Material - 326 IAC 14-10-3(3)(E).

Describe how the asbestos was detected and, if samples were analyzed, specify the amount of friable asbestos visually during a walk-through inspections using a tape measure, blueprints, or pacing. Analytical methods could include the collection of samples and sample analyses by a polarized light microscope with dispersion staining.

For samples that test under 10% asbestos content: An owner or operator may (1) elect to assume material to be greater than 1% asbestos, or, (2) require verification by point counting in which the point counting result will supercede the visual estimation. Either choice and result should be stated on the notice when a sample is under 10% asbestos.

VI. Approximate Amount of Asbestos to be Removed - 326 IAC 14-10-3(3)(F)

A. Specify the amount of regulated (friable) asbestos-containing material to be removed as follows:
   1. linear feet on pipes,
   2. square feet (surface area) on the facility components, **and**
   3. total cubic feet (volume) on or off all facility components. (All reported regulated amounts must be converted to cubic feet).

B. Estimate the approximate amount of Category I and Category II non-friable asbestos-containing material in the affected part of the facility that will be removed before demolition.

C. Estimate the approximate amount of Category I and Category II non-friable asbestos-containing material in the affected part of the facility that will not be removed before demolition.

VII. Scheduled Dates of Asbestos Stripping/Removal - 326 IAC 14-10-3(3)(H)

This means the actual start and end dates of the asbestos stripping or removal.

VIII. Scheduled Dates of Asbestos Stripping/Removal - 326 IAC 14-10-3(3)(H)

This means the starting and ending dates of the total demolition or renovation operation. For example: A renovation project may be scheduled from February 1 through March 15, 1995, however, the actual asbestos removal will occur from February 15, through 20, 1995. Demolition **must** start on date given in most recent notification.

.

IX Facility Description - 326 IAC 14-10-3(3)(D) and (G)

Include the building name, floor and number of the room(s) where the asbestos stripping or removal will take place. Provide enough detail that an unfamiliar inspector can find the asbestos project without asking anyone.

X. Description of planned Demolition or Renovation Work, Methods/Techniques to be Used, and Affected Facility Components - 326 IAC 14-10-3(3)(K)

Briefly describe the methods to be used to conduct the demolition or renovation. For renovations, these methods may include gross removal, glove bag removal, hand stripping or scraping. For demolitions, methods may include a wrecking Ball, bulldozer, dynamite, or unbolting panels or sections and carefully lowering to the ground. Affected facility components may include pipe wrap, floor tile, sprayed-on insulation, transite, etc.

XI. Description of Work Practices and Engineering Controls To Be Used To Prevent Emissions of Asbestos At the Site, Including Asbestos Stripping, Removal, and Waste Handling Procedures and the Procedures to Prevent Non-Friable Asbestos Material from Becoming Friable in the Course of the Project 326 IAC 14-10-3(3)(L)

A. Examples of work practices and engineering controls to prevent asbestos emissions at the site would include: the use of water or wetting agents, containments, and negative air units during removal; placing into leak-tight containers or wrapping with six (6) mil thick polyethylene plastic sheeting which is properly labeled prior to disposal, etc.

B. Examples of removal and waste handling procedures to prevent non-friable material from becoming friable would include: removing by sections or units taking care not to crumble, pulverize, or reduce to power, using water to prevent any emissions, placing into leak-tight containers or wrapping with six (6) mil thick plastic which is properly labeled prior to disposal (including name or waste generator and location at which the waste was generated), etc.

XII.** Description of Procedures to be Followed in the Event that Unexpected Asbestos is Found or Previously Non-Friable Asbestos Material Becomes Crumbled, Pulverized or Reduced to Powder - 326 IAC 18-3 and 326 IAC 14-10-3(3)(M).

A. If the amount of unexpected asbestos or previously non-friable asbestos material is > 3 LnFt on pipes, 3 SqFt on other facility components, or a total of 0.75 CuFt on or off all facility components, then an accredited contractor (unless in-house accredited

personnel) with accredited personnel must implement the asbestos removal project in accordance with the requirements of 326 IAC 14-10.

B. Pursuant to 326 IAC 14-10, a revised demolition/renovation notification must be submitted to the IDEM, which reflects the change in the amount of affected asbestos-containing material. The revised notice must also reflect the new asbestos removal start date, if applicable.

** Required by 40 CFR Part 61, Subpart M

XIII. Waste Transporter - 326 IAC 14-10-3(3)(T)

Provide the name, address and telephone number of only the asbestos waste transporter. This should include the waste transporter's name, street address, city, state, zip code, contact person, and telephone number.

XIV. Waste Disposal site - 326 IAC 14-10-3(3)(N)

Provide the name and location of the sanitary landfill where the asbestos-containing waste material will be deposited. This should include the name, street address, city, state, zip code, waste disposal site contact person, and telephone number.

XV. If Demolition Ordered by a Governmental Agency, Identify the Agency and Attach a Copy of the Order - 326 IAC 14-10-3(3)(O)

A. Provide the name, title and authority of the of the state or local governmental representative who has ordered the demolition .
B. The authority is the applicable state or local regulation under which the demolition order has been issued.
C. Attach a copy of the demolition order to the notice.

XVI. Emergency Renovations - 326 IAC 14-10-3(3)(S)

A. Specify
   1. the date and hour that the emergency occurred,
   2. a description of the sudden unexpected event, and
   3. an explanation of how the event has caused emergency conditions
B. An "emergency renovation operation" is a renovation operation that was not planned but results from a sudden, unexpected event. This term includes operations necessitated by non-routine failures of equipment.

XVII. Certification Statement and Signature by Owner/Operator - 326 IAC 14-10-3(3)(O) and (P)

Self-explanatory.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
NOTIFICATION OF DEMOLITION AND RENOVATION OPERATIONS

State From 44593 (R2 / 8-99)

I. TYPE OF NOTIFICATION (check one): Original _____ Revised *_____ Canceled _____ Courtesy _____
* Must include copy of notification which is being revised

II. FACILITY INFORMATION (identify owner, removal contractor, demolition contractor, inspector, and project designer)

Owner:_____

Address:_____

City:_____ State:_____ Zip:_____

Contact:_____ Telephone #:_____

Removal Contractor:_____

Address:_____

City:_____ State:_____ Zip: _____

Contact:_____ Phone:_____

IN License #:_____ Expiration:_____

Demolition Contractor:_____

Address:_____

City:_____ State:_____ Zip:_____

Contact:_____ Phone:_____

Inspector:_____

Address:_____

City:_____ State:_____ Zip:_____

IN License #:_____ Expiration:_____

Phone:_____

(Required for asbestos projects at schools K – 12)

Project Designer:_____

Address:_____

City:_____ State:_____ Zip:_____

IN License #:_____ Expiration:_____

Phone:_____

III. TYPE OF OPERATION (check one) Renovation: _____ Emergency Renovation: _____
Intentional Burning: _____ Demolition: _____ Ordered Demolition: _____

IV. IS ASBESTOS PRESENT? (check one) YES: _____ NO: _____

V. PROCEDURES, INCLUDING ANALYTICAL METHODS, IF APPROPRIATE. USED TO DETECT THE PRESENCE AND AMOUNT OF ASBESTOS MATERIAL

_____

VI. APPROXIMATE AMOUNT OF ASBESTOS (Including Regulated ACM, Category I non-friable Category II non-friable ACM)

	Regulated ACM to be removed	Non-friable Asbestos Material To be removed		Non-friable Asbestos Material Not to be removed before demolition	
		Category I	Category II	Category I	Category II
Pipes (LnFt)					
Surface Area (SqFt)					
Total Volume (CuFt) on/off Components					

VII. SCHEDULED DATES OF ASBESTOS STRIPPING/REMOVAL: Start:_____ End:_____

VIII. SCHEDULED DATES OF RENOVATION: Start:_____ End:_____ DEMOLITION: Start:_____ End:_____

IX. FACILITY DESCRIPTION (Including building name, floor, and room number)

Building Name:_____

Street Address:_____

City:_____ State:_____ County:_____

Location of removal within building:_____

Building Size (SqFt):_____ # of Floors:_____ Age:_____

Present Use:_____ Prior use:_____

X. DESCRIPTION OF PLANNED DEMOLITION OR RENOVATION WORK, METHODS/TECHNIQUES TO BE USED, AFFECTED FACILITY COMPONENTS AND TYPE OF MATERIALS REMOVED

_____

_____

_____

_____

XI. DESCRIPTION OF WORK PRACTICES AND ENGINEERING CONTROLS TO BE USED TO PREVENT EMISSIONS OF ASBESTOS AT THE SITE; INCLUDING ASBESTOS STRIPPING, REMOVAL AND WASTE HANDLING PROCEDURES TO PREVENT NON-FRIABLE ASBESTOS MATERIAL FROM BECOMING FRIABLE IN THE COURSE OF THE PROJECT:

_____

_____

_____

XII. DESCRIPTION OF PROCEDURES TO BE FOLLOWED IN THE EVENT THAT UNEXPECTED ASBESTOS IS FOUND OR PREVIOUSLY NON-FRIABLE ASBESTOS MATERIAL BECOMES CRUMBLED, PULVERIZED, OR REDUCED POWDER:

_____

_____

_____

XIII. WASTE TRANSPORTER

Name:_____

Address:_____

City:_____ State:_____ Zip:_____

Contact:_____ Phone:_____

XIV. WASTE DISPOSAL SITE

Name:_____

Address:_____

City:_____ State:_____ Zip:_____

Contact:_____ Phone:_____

XV. IF DEMOLITION ORDERED BY A GOVERNMENT AGENCY, IDENTIFY THE AGENCY BELOW AND ATTACH A COPY OF THE ORDER TO THIS FORM. IF THE FACILITY IS NOT INSPECTED PRIOR TO DEMOLITION, THE DEBRIS MUST BE KEPT ADEQUATELY WET. THE DEBRIS MUST THEN BE INSPECTED AFTER DEMOLITION OR ASSUME ALL DEBRIS TO BE CONTAMINATED WITH RACM AND DISPOSED OF APPROPRIATELY TO COMPLY WITH 326 IAC 14-10-1(b).

Name:_____ Title:_____ Date ordered to begin:_____

Authority:_____ Date of Order:_____

XVI. FOR EMERGENCY RENOVATIONS: Date and time of emergency:_____

Description of sudden, unexpected event:_____

_____

Explanation of how the event caused unsafe conditions or would cause equipment damage: _____

_____

XVII. I HEREBY CERTIFY THAT THE INFORMATION IN THIS NOTIFICATION IS CORRECT AND THAT I WILL ONLY USE INDIANA LICENSED WORKERS AND PROJECT SUPERVISORS, TO IMPLEMENT THIS ASBESTOS PROJECT, WHICH HAVE BEEN TRAINED IN 326IAC 14-10; 40 CFR PART 61, SUBPART M; AND, IF APPLICABLE, INDIANAPOLIS AIR POLLUTION CONTROL BOARD REGULATION 14. THE TRAINED INDIVIDUAL(S) ALONG WITH EVIDENCE THAT THE REQUIRED TRAINING WAS ACCOMPLISHED SHALL BE AVAILABLE AT THE JOB SITE DURING ACTUAL WORKING HOURS.

_____ _____

Owner/operator (signature) date

_____ _____

Owner/operator (printed) affiliation

********** OFFICE USE ONLY **********

POSTMARK:	RECEIVED:	REVIEWED BY:	DEFICIENCIES: