



September 5, 2017

Mr. Ron Beane
Evansville Building Commission
Room 310 Civic Center Complex
1 NW Martin Luther King, Jr. Blvd.
Evansville, IN 47708-1869

RE: Asbestos Building Inspection for 1602 West Maryland Street, Evansville, Indiana – CES Project #117-1003.

Dear Mr. Beane:

On August 23, 2017 Caprice Mattingly and Ellen Mullen of Crane Environmental Services, LLC conducted an Asbestos Building Inspection to determine if there was any Asbestos Containing Material (ACM) present at the subject property. The site is a vacant house with a basement, finished attic, and a shed which is scheduled to be demolished.

Great care was taken to account for all spaces within the building. Hidden spaces were evaluated by physical or visual inspection as reasonably accessible. Hidden spaces include inaccessible pipe chases, sub-walls behind exposed walls, layers of tile under carpet or other tile, roofing materials under impenetrable surfaces, inaccessible sections of the building, etc. All hidden layers accessible through minor alterations were observed and tested if suspected for ACM's. Some hidden areas were assumed to contain the same materials as accessible areas that were observed.

Fifteen bulk samples and one duplicate sample of suspect asbestos containing material were collected and sent to a laboratory for analysis. One of the samples was Asbestos Containing Material (ACM) defined as any material which contains more than one percent (1%) asbestos. The laboratory results are attached, and summarized as follows:

Sample #	Material	Location	% Asbestos
3-1-1	Hard Plaster - Wall	Closet	ND
3-1-2	Hard Plaster - Wall	Living Room	ND
3-1-3	Hard Plaster - Wall	Pantry	ND
3-1-4	Hard Plaster - Ceiling	Kitchen	ND
3-1-5	Hard Plaster - Ceiling	Living Room	ND
3-1-6	Hard Plaster - Ceiling	Hall	ND
3-1-7	Ceiling Tile	Bedroom	ND
3-1-8	Ceiling Tile	Bedroom	ND
3-1-9	Hard Plaster-Wall	Bathroom	ND
3-B-1	Hard Plaster - Ceiling	Basement	ND

1120 Star Gate Road

Evansville, IN 47725

Phone: (812) 868-0709

Fax: (812) 868-1232

E-mail: ces@crane-es.com

Sample #	Material	Location	% Asbestos
3-B-2	Skim Coat	Basement	ND
3-B-3	Plaster Board - Ceiling	Basement	ND
3-B-4	Duct Tape	Basement	80 Chrysotile
3-B-5	Plaster Board - Ceiling	Basement	ND
3-Dup-1 (3-1-2)	Hard Plaster - Wall	Kitchen	ND

ND – Non-detect

There is Regulated Asbestos Containing Material (RACM), Category I, and Category II ACM located in the house as indicated in the table below. Regulated ACM means (a) Friable asbestos material, (b) Category I non-friable ACM that has become friable, (c) Category I non-friable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading, or (d) Category II non-friable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations. All floor tile, sheet vinyl flooring, asphalt roofing products, and flashing present was presumed to be Category I non-friable Asbestos Containing Material (ACM). The quantities of RACM and Category I and Category II ACM are summarized in the table below.

Location	Material	RACM To Be Removed (SqFt)	Category I & II Non-Friable To Be Removed (SqFt)	Category I & II Non-Friable Not To Be Removed (SqFt)
Roof & Shed Roof	Asphalt Roofing (Assumed)	0	0	7497.7
Basement	Duct Tape	7.9	0	0
Kitchen, Entry, Porch, Bathroom	Floor Tile & Sheet Vinyl Flooring (Assumed)	0	0	263.7
	Total	7.9	0	7761.5

All quantities are approximations. Measurements were taken where permitted and estimated where measurement was not feasible.

The RACM and Category I & II Non-Friable listed in the 3rd and 4th columns above need to be removed by an Indiana Licensed Abatement Contractor prior to demolition. The Non-Friable Category I ACM listed in the 5th column can remain on the substrate during demolition and disposed of in the landfill.

I have attached the laboratory results, the field inspection maps and notes, and the "Notification of Demolition and Renovation Operations" with instructions to submit to IDEM prior to demolition.

If you have any questions, please call at your convenience.

Sincerely,



Caprice L. Mattingly
Asbestos Building Inspector #19A008238
Expiration Date 3/24/2018
Enclosures



1120 Star Gate Road

Evansville, IN 47725

Phone: (812) 868-0709

Fax: (812) 868-1232

E-mail: ces@crane-es.com

**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 powder, 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

117-1003

State Form 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 CRUMBLLED, 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:



Report for:

Ellen Mullen
Crane Environmental Services, LLC
1120 Star Gate Rd.
Evansville, IN 47725-8232

Regarding: Project: 117-1003; 1602 W Maryland Street
EML ID: 1782668

Approved by:

Dates of Analysis:
Asbestos PLM: 08-29-2017

Approved Signatory
Renee Luna

Service SOPs: Asbestos PLM (EPA Methods 600/R-93/116 & 600/M4-82-020, SOP EM-AS-S-1267)

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the items tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Client: Crane Environmental Services, LLC
C/O: Ellen Mullen
Re: 117-1003; 1602 W Maryland StreetDate of Sampling: 08-23-2017
Date of Receipt: 08-24-2017
Date of Report: 08-29-2017**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Total Samples Submitted:** 15**Total Samples Analyzed:** 15**Total Samples with Layer Asbestos Content > 1%:** 1**Location: 3-1-1, Hard plaster**

Lab ID-Version‡: 8334157-1

Sample Layers	Asbestos Content
White Skim Coat with Multilayered Paint	ND
Gray Base Coat	ND
Composite Non-Asbestos Content:	< 1% Glass Fibers < 1% Hair/Wool
Sample Composite Homogeneity:	Moderate

Location: 3-1-2, Hard plaster

Lab ID-Version‡: 8334158-1

Sample Layers	Asbestos Content
White Skim Coat with Multilayered Paint	ND
Gray Base Coat	ND
Composite Non-Asbestos Content:	< 1% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 3-1-3, Hard plaster

Lab ID-Version‡: 8334159-1

Sample Layers	Asbestos Content
White Skim Coat with Multilayered Paint	ND
Gray Base Coat	ND
Composite Non-Asbestos Content:	< 1% Glass Fibers < 1% Hair/Wool
Sample Composite Homogeneity:	Moderate

Location: 3-1-4, Hard plaster

Lab ID-Version‡: 8334160-1

Sample Layers	Asbestos Content
White Compound	ND
White Skim Coat with Multilayered Paint	ND
Gray Base Coat	ND
Composite Non-Asbestos Content:	< 1% Glass Fibers < 1% Hair/Wool
Sample Composite Homogeneity:	Poor

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Crane Environmental Services, LLC
 C/O: Ellen Mullen
 Re: 117-1003; 1602 W Maryland Street

Date of Sampling: 08-23-2017
 Date of Receipt: 08-24-2017
 Date of Report: 08-29-2017

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116**Location: 3-1-5, Hard plaster**

Lab ID-Version‡: 8334161-1

Sample Layers	Asbestos Content
White Skim Coat with Multilayered Paint	ND
Gray Base Coat	ND
Composite Non-Asbestos Content:	< 1% Glass Fibers < 1% Hair/Wool
Sample Composite Homogeneity:	Poor

Location: 3-1-6, Hard plaster

Lab ID-Version‡: 8334162-1

Sample Layers	Asbestos Content
White Compound	ND
White Skim Coat with Multilayered Paint	ND
Gray Base Coat	ND
Composite Non-Asbestos Content:	< 1% Glass Fibers < 1% Hair/Wool
Sample Composite Homogeneity:	Poor

Location: 3-1-7, Ceiling tile

Lab ID-Version‡: 8334163-1

Sample Layers	Asbestos Content
Gray Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	65% Cellulose 3% Glass Fibers
Sample Composite Homogeneity:	Good

Location: 3-1-8, Ceiling tile

Lab ID-Version‡: 8334164-1

Sample Layers	Asbestos Content
Gray Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	65% Cellulose 3% Glass Fibers
Sample Composite Homogeneity:	Good

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Client: Crane Environmental Services, LLC
 C/O: Ellen Mullen
 Re: 117-1003; 1602 W Maryland Street

Date of Sampling: 08-23-2017
 Date of Receipt: 08-24-2017
 Date of Report: 08-29-2017

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116**Location: 3-1-9, Hard plaster**

Lab ID-Version‡: 8334165-1

Sample Layers	Asbestos Content
White Skim Coat with Multilayered Paint	ND
Gray Base Coat	ND
Composite Non-Asbestos Content:	< 1% Hair/Wool
Sample Composite Homogeneity:	Moderate

Location: 3-B-1, Hard plaster

Lab ID-Version‡: 8334166-1

Sample Layers	Asbestos Content
Gray Plaster	ND
Brown Fibrous Material	ND
Composite Non-Asbestos Content:	3% Cellulose < 1% Hair/Wool
Sample Composite Homogeneity:	Moderate

Location: 3-B-2, Skim coat

Lab ID-Version‡: 8334167-1

Sample Layers	Asbestos Content
White Skim Coat	ND
Gray Base Coat	ND
Composite Non-Asbestos Content:	< 1% Cellulose < 1% Hair/Wool
Sample Composite Homogeneity:	Moderate

Location: 3-Dup-1, Hard plaster

Lab ID-Version‡: 8334168-1

Sample Layers	Asbestos Content
White Skim Coat with Multilayered Paint	ND
Gray Base Coat	ND
Composite Non-Asbestos Content:	< 1% Hair/Wool
Sample Composite Homogeneity:	Moderate

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

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Client: Crane Environmental Services, LLC
C/O: Ellen Mullen
Re: 117-1003; 1602 W Maryland StreetDate of Sampling: 08-23-2017
Date of Receipt: 08-24-2017
Date of Report: 08-29-2017**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: 3-B-3, Plaster board**

Lab ID-Version‡: 8334169-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 3-B-4, Duct tape

Lab ID-Version‡: 8334170-1

Sample Layers	Asbestos Content
Gray Tape	80% Chrysotile
Composite Non-Asbestos Content:	5% Cellulose
Sample Composite Homogeneity:	Good

Location: 3-B-5, Plaster board

Lab ID-Version‡: 8334171-1

Sample Layers	Asbestos Content
White Skim Coat	ND
Gray Base Coat	ND
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	5% Cellulose < 1% Hair/Wool
Sample Composite Homogeneity:	Poor

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CHAIN OF CUSTODY

www.EMLabPK.com



Cherry Hill, NJ: 1936 Olney Avenue, Cherry Hill, NJ 08003 * (866) 871-1984
 Phoenix, AZ: 1501 West Knudsen Drive, Phoenix, AZ 85027 * (800) 651-4802
 San Bruno, CA: 1150 Bayhill Drive, #100, San Bruno, CA 94066 * (866) 888-6653



001782668

Moderate
Heavy

REQUESTED SERVICES (✓ Boxes)

Non-Culturable		Culturable		Other Requests
Spore Trap	Tape Swab Bulk	Bio-Cassette [®] Andersen, SAS, Swab, Water, Bulk, Dust, Soil, Contact Plate		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Ash-stos Analysis - PCM Airborne Fiber Count (NIOSH 7400) Adhesive Analysis - PLM (EPA method 809/R-93-116) PCR (please specify req)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

CONTACT INFORMATION	
Company: Crane Environmental Services, LLC	Address: 1120 Star Gate Court, Evansville, IN 47725
Contact: Ellen R. Mullen	Special Instructions:
Phone: (812) 868-0709	Account #: 4001

PROJECT INFORMATION		TURN AROUND TIME CODES - (TAT)	
Project ID: 117-1003	Project Desc.: 1602 W. Maryland Street	STD - Standard (DEFAULT)	Rushes received after 2pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.
Project: 47710	Sampling Date & Time: 8/23/17 10:00 a.m.	ND - Next Business Day	
Zip Code:		SD - Same Business Day Rush	
PQ Number:		WH - Weekend/Holiday	

SAMPLE ID	DESCRIPTION	Sample Type (Below)	TAT (Above)	Total Volume/Area (as applicable)	NOTES (Time of day, Temp, RH, etc.)
3-1-1	Hard Plaster	B	STD		
3-1-2	Hard Plaster	B	STD		
3-1-3	Hard Plaster	B	STD		
3-1-4	Hard Plaster	B	STD		
3-1-5	Hard Plaster	B	STD		
3-1-6	Hard Plaster	B	STD		
3-1-7	Ceiling Tile	B	STD		
3-1-8	Ceiling Tile	B	STD		
3-1-9	Hard Plaster	B	STD		
3-B-1	Hard Plaster	B	STD		
3-B-2	Skim Coat	B	STD		
3-Dup-1	Hard Plaster	B	STD		

SAMPLE TYPE CODES				RELINQUISHED BY	DATE & TIME
BC - BioCassette [™]	CP - Contact Plate	T - Tape	D - Dust	 FedEx 950	08/23/17 5:00 P.M.
A15 - Andersen	ST - Spore Trap: Zefon, Allergenco, Berkard...	SW - Swab	W - Water		8/24/17
SAS - Surface Air Sampler		B - Bulk	SO - Soil		
O - Other:					

RECEIVED BY	DATE & TIME
P.M.	

By submitting this Chain of Custody, you agree to be bound by the terms and conditions set forth at www.emlabpk.com/terms.html

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CES

Crane Environmental Services, Inc.

1120 Star Gate Court

Evansville, IN 47725

(812) 868-0709 Fax: (812) 868-1232

Evansville, IN 47724-7021

CHAIN OF CUSTODY

Project: 117-1003

Sampled By: Caprice Mattingly | Ellen Mullen

Location: 1602 W Maryland St

Date: 8/23/2017

DATE	SAMPLE #	MATERIAL SAMPLED	LOCATION	Notes
		FT	Kitchen, Entry, Porch	Black tan 2 layers 10'6" x 8'11", 7'7" x 13'5", 5'11" x 5'6"
	3-1-1	HP	W Closet	
	3-1-2	HP	Living Room Wall	Dup. 1
	3-1-3	HP	Pantry W	
	3-1-4	HP	Kitchen C.	Texture
	3-1-5	HP	Living C.	
	3-1-6	HP	Hallway C.	Texture
	3-1-7	CT	Bedroom	Loose 2x4
	3-1-8	CT	Bedroom	12 ~ 2'x2'
	3-1-9	HP	Bathroom W	tile
		ShVf	Bathroom Fl.	3'6" x 9'11"
	3-B-1	HP	Ceiling	
	3-B-2	SC	Basement W	
	3-B-3	PB Plaster	Ceiling	
	3-B-4	DT	8" Pipe Basement	wrapped twice, 2" tape, 5 pipes, 2" x 6'
	3-B-5	PB drywall	ceiling	drywall texture
		DT	Pipe Duct Work Ceiling	2" tape 2'

KEY	PI	Pipe Insulation	JC	Joint Comp.	FT	Floor Tile	CLK	Caulking
	PJ	Pipe Joint	INS	Insulation	ShVf	Sheet Vinyl	OT	Other (explain)
	HP	Hard Plaster	CT	Ceiling Tile	TR	Transite	UK	Unknown

PB-Plaster Board

CES

Crane Environmental Services, Inc.

1120 Star Gate Court

Evansville, IN 47725

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SAMPLING DIAGRAM

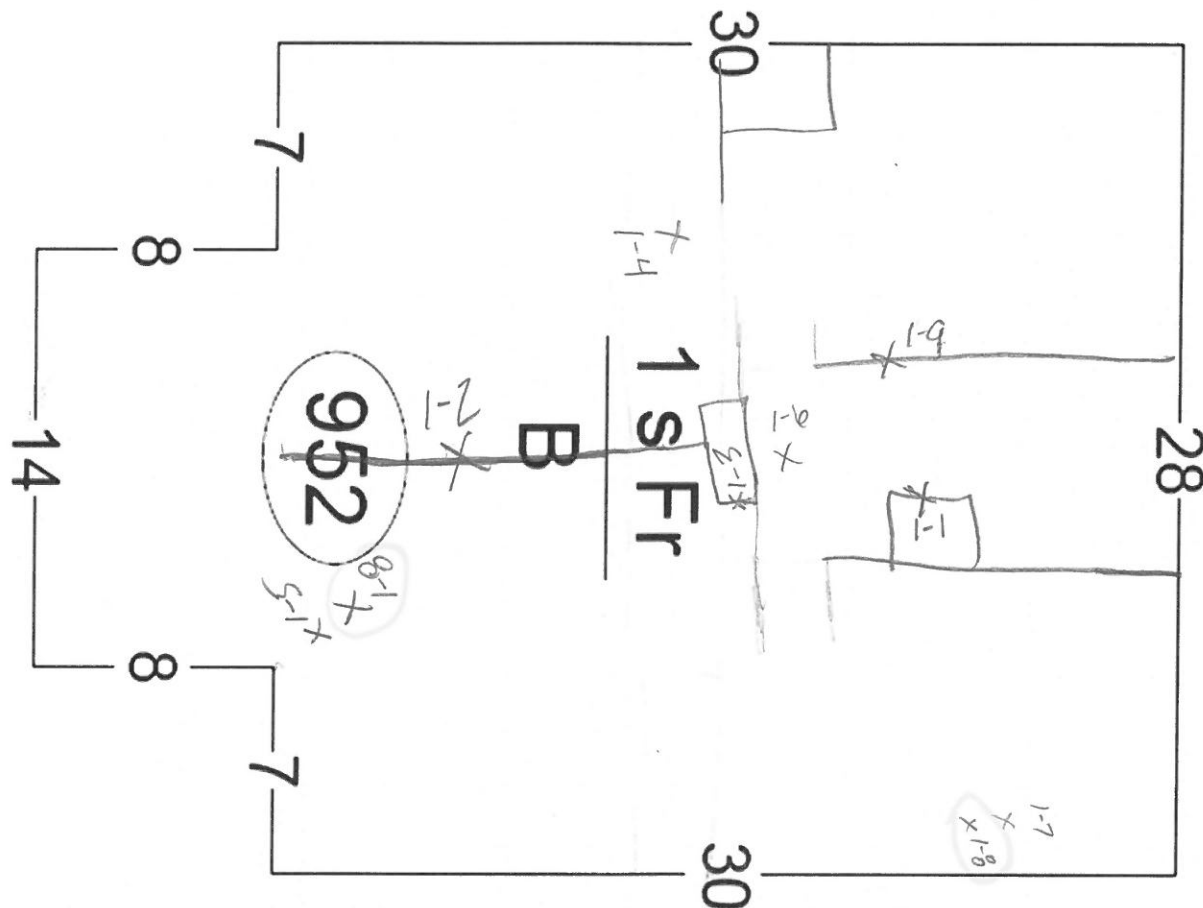
Project: 117-1003

Sampled By: Caprice Mattingly | Ellen Mullen

Location: 1602 W Maryland St

Date: 8/ 23/2017

First Floor



Roofing: Shingles Rolled Other _____
Siding: Transite Wood Other _____
Garage: Yes No Shed
G. Roof: Shingles Rolled Other _____
Basement: Yes No
2nd Floor: Finished Unfinished No

KEY	PI	Pipe Insulation	JC	Joint Comp.	FT	Floor Tile	CLK	Caulking
	PJ	Pipe Joint	INS	Insulation	ShVF	Sheet Vinyl	OT	Other
	HP	Hard Plaster	CT	Ceiling Tile	TR	Transite	UK	Unknown

CES

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Evansville, IN 47725

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SAMPLING DIAGRAM

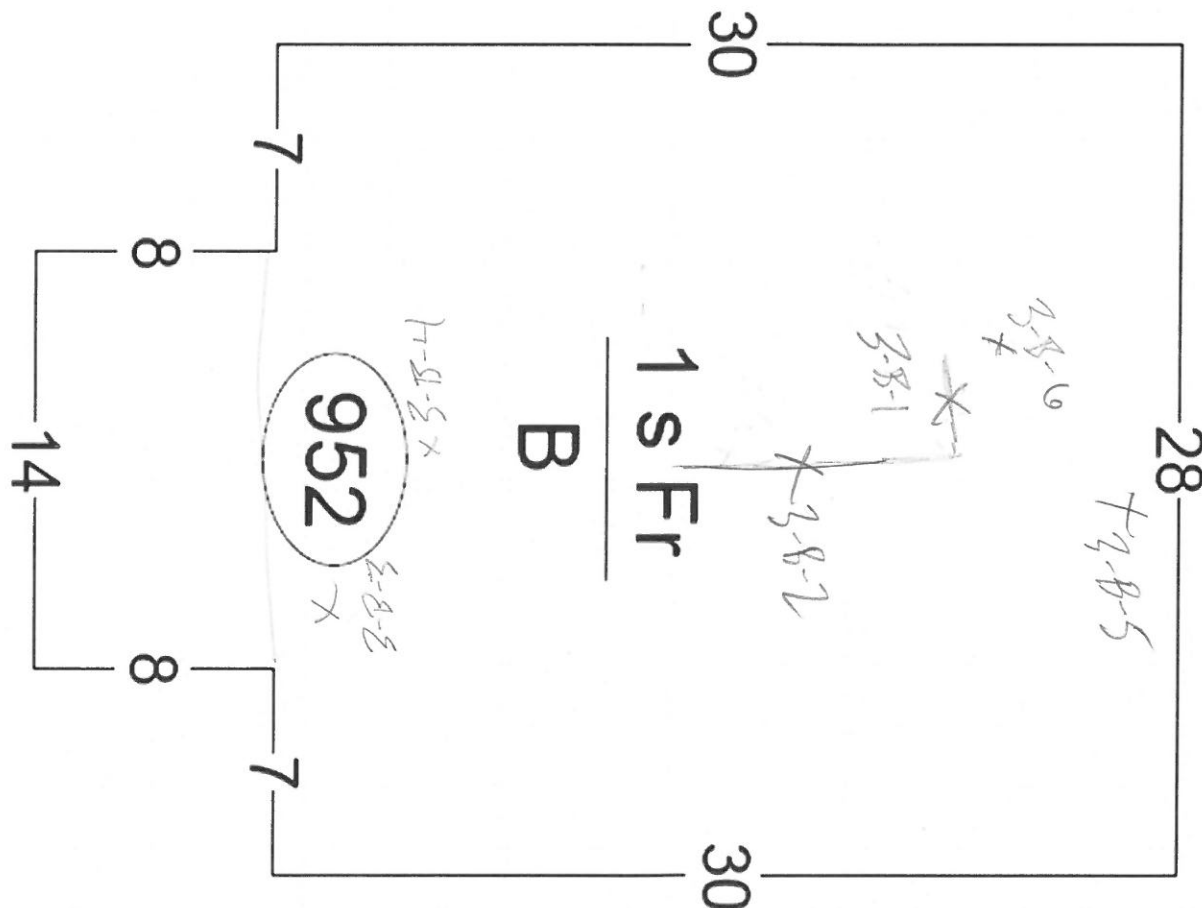
Project: 117-1003

Sampled By: Caprice Mattingly | Ellen Mullen

Location: 1602 W Maryland St

Date: 8/23/2017

Basement



Roofing: Shingles Rolled Other _____

Siding: Transite Wood Other _____

Garage: Yes No Shed _____

G. Roof: Shingles Rolled Other _____

Basement: Yes No _____

2nd Floor: Finished Unfinished No _____

KEY	PI	Pipe Insulation	JC	Joint Comp.	FT	Floor Tile	CLK	Caulking
	PJ	Pipe Joint	INS	Insulation	ShVF	Sheet Vinyl	OT	Other
	HP	Hard Plaster	CT	Ceiling Tile	TR	Transite	UK	Unknown