October 15, 2018

Ms. Jane Reel
Evansville Department of Metropolitan Development
Room 306 Civic Center Complex
1 NW Martin Luther King, Jr. Blvd.
Evansville, IN 47708-1869

RE: Asbestos Building Inspection for 602 E. Blackford Avenue, Evansville, Indiana – Crane Project #118-2021

Dear Ms. Reel:

On October 8, 2018 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 two-story vacant house with a basement and finished attic 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.

The building inspected is vacant and may be in disrepair and in some circumstances have inaccessible areas or areas that are dangerous to enter. These areas are viewed by the inspector the best way that he/she can and may have asbestos containing material that was not sampled or noted in the report. In addition, asbestos containing roofing material may be covered by other layers of roofing, leaves, or is not viewable because of the close proximity of the adjacent buildings. The notification form attached to this report has directions as to how to handle suspect asbestos containing material that is found during demolition. If additional asbestos containing material is discovered, it should be handled according to the instructions on the attached notification form. Crane will in turn issue a revised report to the owner.

Fourteen 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:

4209 Highway 41 North, Suite 24 Evansville, IN 47711

Phone: (812) 909-0829 Fax: (812) 909-0471 E-mail: ces@crane-es.com

Sample #	Material	Location	% Asbestos
21-1-1	Hard Plaster Wall	Entrance	ND
21-1-2	Hard Plaster Wall	Closet	ND
21-1-3	Hard Plaster Wall	Kitchen	ND
21-1-4	Hard Plaster Ceiling	Sitting Room	ND
21-1-5	Hard Plaster Ceiling	Living Room	ND
21-1-6	Hard Plaster Ceiling	Living Room	ND
21-2-1	Hard Plaster Wall	Upstairs Kitchen	ND
21-2-2	Hard Plaster Wall	Upstairs Bedroom	ND
21-2-3	Hard Plaster Wall	Upstairs Stairwell	ND
21-2-4	Hard Plaster Ceiling	Upstairs Kitchen	ND
21-2-5	Hard Plaster Ceiling	Upstairs Bathroom	ND
21-2-6	Hard Plaster Ceiling	Upstairs Bathroom	ND
21-B-1	Duct Tape	Basement	ND
21-B-2	Duct Wrap	Basement	60% Chrysotile
21-Dup-1 (21-1-4)	Hard Plaster	Sitting Room	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 during 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	Column # 3		Column # 4		Column # 5	
		RACM To Be Removed		Category I & II Non-Friable To Be Removed		Category I & II Non-Friable Not To Be Removed	
		SqFt	CuFt	SqFt	CuFt	SqFt	CuFt
Roof	Asphalt Roofing (Assumed)	0	0	0	0	1,891.50	59.11
Kitchen & Bathroom	Floor Tile & Sheet Vinyl Flooring (Assumed)	0	0	0	0	222.55	9.27
Basement	Duct Wrap	43.6	0.5	0	0	0	0
	Total	**43.6**	**0.5**	**0**	**0**	**2,114.05**	**68.38**

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 & II 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,

Ellen Crane Mullen

Ellen Crane Mullen
Asbestos Building Inspector #194001096
Expiration Date 4/15/2019

Enclosures

4209 Highway 41 North, Suite 24 Evansville, IN 47711

Phone: (812) 909-0829 Fax: (812) 909-0471 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.

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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.

118-2021

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
NOTIFICATION OF DEMOLITION AND RENOVATION OPERATIONS

State From 44593 (R2 / 8-99)

I. TYPE OF NOTIFICATION (check one): Original XXX 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: Evansville Department of Metropolitan Development

Address: Room 306 Civic Center Complex, 1 N.W. Martin Luther King Jr. Boulevard

City: Evansville State: Indiana Zip: 47708-1869

Contact: Jane Reel Telephone #: (812) 436-4555

Removal Contractor: ____

Address: ____

City: ____ State: ____ Zip: ____

Contact: ____ Phone: ____

IN License #: ____ Expiration: ____

Demolition Contractor: ____

Address: ____

City: ____ State: ____ Zip: ____

Contact: ____ Phone: ____

Inspector: Ellen Crane Mullen

Address: 4209 Highway 41 North, Suite 24

City: Evansville State: IN Zip: 47725

IN License #: 194001096 Expiration: 4/15/2019

Phone: 812-909-0829

(Required for asbestos projects at schools K – 12)

Project Designer: NA

Address: ____

City: ____ State: ____ Zip: ____

IN License #: ____ Expiration: ____

Phone: ____

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

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

V. PROCEDURES, INCLUDING ANALYTICAL METHODS, IF APPROPRIATE. USED TO DETECT THE PRESENCE AND AMOUNT OF ASBESTOS MATERIAL
The building was inspected, bulk samples were collected of suspect asbestos containing materials.

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)	0	0	0	0	0
Surface Area (SqFt)	43.6	0	0	2,114.0	0
Total Volume (CuFt) on/off Components	0.5	0	0	68.4	0

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

VIII. SCHEDULED DATES OF RENOVATION: Start: NA End: NA DEMOLITION: Start: ____ End: ____

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

Building Name: Residential Dwelling

Street Address: 602 E. Blackford Avenue

City: Evansville State: IN County: Vanderburgh

Location of removal within building: Basement - Duct Wrap

Building Size (SqFt): 2,158 # of Floors: 2 Age: 129

Present Use: Vacant Prior use: Dwelling

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

The building will be demolished using heavy equipment. Some materials may be salvaged. Water spray will be utilized to prevent dust from leaving the work site.

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:

All work will cease, and the Asbestos Building Inspector will be notified. Suspect materials will be sampled, and a new notification will be sent to IDEM if the material is positive for asbestos. All suspect material will be thoroughly wetted.

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:

EMLab P&K
A TestAmerica Company

CRANE
ENVIRONMENTAL SERVICES, LLC.
1120 STAR GATE COURT
EVANSVILLE, IN 47725
OFFICE: (812) 868-0709 FAX: (812)868-1232

Report for:

Ellen Mullen
Crane Environmental Services, LLC
4209 Highway 41 North, Suite 24
Evansville, IN 47711

Regarding: Project: 118-2021; 602 East Blackford Avenue
EML ID: 2018799

Approved by:

Renee Luna-Trepczynski

Approved Signatory
Renee Luna-Trepczynski

Dates of Analysis:
Asbestos PLM: 10-12-2018

Service SOPs: Asbestos PLM (EPA 40CFR App E to Sub E of Part 763 & EPA METHOD 600/R-93-116, 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.

EMLab P&K
1501 West Knudsen Drive, Phoenix, AZ 85027
(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: Crane Environmental Services, LLC
C/O: Ellen Mullen
Re: 118-2021; 602 East Blackford Avenue

Date of Sampling: 10-08-2018
Date of Receipt: 10-09-2018
Date of Report: 10-12-2018

ASBESTOS PLM REPORT

Total Samples Submitted:	15
Total Samples Analyzed:	15
Total Samples with Layer Asbestos Content > 1%:	1

Location: 21-1-1, Hard plaster

Lab ID-Version‡: 9523133-1

Sample Layers	Asbestos Content
White Drywall	ND
Composite Non-Asbestos Content:	< 1% Cellulose < 1% Glass Fibers
Sample Composite Homogeneity:	Good

Location: 21-1-2, Hard plaster

Lab ID-Version‡: 9523134-1

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

Location: 21-1-3, Hard plaster

Lab ID-Version‡: 9523135-1

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

Location: 21-1-4, Hard plaster

Lab ID-Version‡: 9523136-1

Sample Layers	Asbestos Content
Gray Base Coat	ND
White Skim Coat	ND
White Compound	ND
Composite Non-Asbestos Content:	< 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 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".

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(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: Crane Environmental Services, LLC
C/O: Ellen Mullen
Re: 118-2021; 602 East Blackford Avenue

Date of Sampling: 10-08-2018
Date of Receipt: 10-09-2018
Date of Report: 10-12-2018

ASBESTOS PLM REPORT

Location: 21-1-5, Hard plaster

Lab ID-Version‡: 9523137-1

Sample Layers	Asbestos Content
Brown Fibrous Material	ND
White Skim Coat with Yellow Surface	ND
Gray Base Coat	ND
Composite Non-Asbestos Content:	10% Cellulose < 1% Hair/Wool
Sample Composite Homogeneity:	Poor

Location: 21-1-6, Hard plaster

Lab ID-Version‡: 9523138-1

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

Location: 21-2-1, Hard plaster

Lab ID-Version‡: 9523139-1

Sample Layers	Asbestos Content
White Plaster	ND
Composite Non-Asbestos Content:	< 1% Hair/Wool
Sample Composite Homogeneity:	Good

Location: 21-2-2, Hard plaster

Lab ID-Version‡: 9523140-1

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

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(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: Crane Environmental Services, LLC
C/O: Ellen Mullen
Re: 118-2021; 602 East Blackford Avenue

Date of Sampling: 10-08-2018
Date of Receipt: 10-09-2018
Date of Report: 10-12-2018

ASBESTOS PLM REPORT

Location: 21-2-3, Hard plaster

Lab ID-Version‡: 9523141-1

Sample Layers	Asbestos Content
Multicolored Wallpaper	ND
Brown Fibrous Material with Beige Paint	ND
White Skim Coat	ND
Gray Base Coat with Yellow Paint	ND
Composite Non-Asbestos Content:	15% Cellulose < 1% Hair/Wool
Sample Composite Homogeneity:	Poor

Location: 21-2-4, Hard plaster

Lab ID-Version‡: 9523142-1

Sample Layers	Asbestos Content
Off-White Skim Coat	ND
Gray Base Coat	ND
Sample Composite Homogeneity:	Moderate

Location: 21-2-5, Hard plaster

Lab ID-Version‡: 9523143-1

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

Location: 21-2-6, Hard plaster

Lab ID-Version‡: 9523144-1

Sample Layers	Asbestos Content
Gray Plaster	ND
Composite Non-Asbestos Content:	< 1% Cellulose < 1% Hair/Wool
Sample Composite Homogeneity:	Good

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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: 118-2021; 602 East Blackford Avenue

Date of Sampling: 10-08-2018
Date of Receipt: 10-09-2018
Date of Report: 10-12-2018

ASBESTOS PLM REPORT

Location: 21-B-1, Duct tape

Lab ID-Version‡: 9523145-1

Sample Layers	Asbestos Content
Brown Fibrous Material	ND
Silver Wrap with White Adhesive	ND
Composite Non-Asbestos Content:	15% Synthetic Fibers 7% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 21-B-2, Duct wrap

Lab ID-Version‡: 9523146-1

Sample Layers	Asbestos Content
Gray Wrap	60% Chrysotile
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Good

Location: 21-DUP-1, Hard plaster

Lab ID-Version‡: 9523147-1

Sample Layers	Asbestos Content
White Drywall	ND
Gray Base Coat	ND
White Skim 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 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".

CHAIN OF CUSTODY

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EMLab P&K

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

WEATHER	Fog	Rain	Snow	Wind	Clear
LEVEL: None					
Light					
Moderate					
Heavy					

002018799

CONTACT INFORMATION

Company: Crane Environmental Services, LLC

Address: 4209 Highway 41 North, Suite 24

Contact: Ellen R. Mullen

Special Instructions: Account #: 4001

Phone: (812) 909-0829

PROJECT INFORMATION

Project ID: 118-2021

Project Desc.: 602 East Blackford Avenue

Project Zip Code: 47713

Sampling Date & Time: 10/8/18 11:45am

PO Number:

TURN AROUND TIME CODES - (TAT)

STD - Standard (DEFAULT)

ND - Next Business Day

SD - Same Business Day Rush

WH - Weekend/Holiday

Rushes received after 2pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.

SAMPLE ID	DESCRIPTION	Sample Type (Below)	TAT (Above)	Total Volume/Area (as applicable)	NOTES (Time of day, Temp, RH, etc.)	Asbestos Analysis - PCM Airborne Fiber Count (NIOSH 7400)	Asbestos Analysis - PLM (EPA method 600/R-93-116)	PCR (Please specify test)
21-1-1	Hard Plaster	B	STD			X		
21-1-2	Hard Plaster	B	STD			X		
21-1-3	Hard Plaster	B	STD			X		
21-1-4	Hard Plaster	B	STD			X		
21-1-5	Hard Plaster	B	STD			X		
21-1-6	Hard Plaster	B	STD			X		
21-2-1	Hard Plaster	B	STD			X		
21-2-2	Hard Plaster	B	STD			X		
21-2-3	Hard Plaster	B	STD			X		
21-2-4	Hard Plaster	B	STD			X		
21-2-5	Hard Plaster	B	STD			X		
21-2-6	Hard Plaster	B	STD			X		

Fungi - Spore Trap Analysis; Spore Trap Analysis - Other particles; Direct Microscopic Exam (Qualitative); Quantitative Spore Count: Direct Exam; 1-Media Surface Fungi (Genus ID + Agr. spp.); 2-Media Surface Fungi (Genus ID + Agr. spp.); 3-Media Surface Fungi (Genus ID + Agr. spp.); Culturable Air Fungi (Genus ID + Agr. spp.); Gram Stain and Counts (Culturable Air and Surface Bacteria); Legionella culture; Total Coliform, E.coli (Presence/Absence); Membrane Filtration (Please specify organism); MPN Bacteria (Please specify organism); QuantiTray - Sewage Screen

Other Requests

SAMPLE TYPE CODES

BC - BioCassette™	CP - Contact Plate	T - Tape	D - Dust
AIS - Andersen	ST - Spore Trap: Zefon, Allergenco, Burkard...	SW - Swab	W - Water
SAS - Surface Air Sampler		B - Bulk	SO - Soil
O - Other:			

RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME
Rijana Scott	10/8/18 3:00 P.M.		
Fedex 940	10/9/18	K Griffith	

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CHAIN OF CUSTODY

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San Bruno, CA: 1150 Bayhill Drive, #100, San Bruno, CA 94066 * (866) 888-6653

WEATHER	Fog	Rain	Snow	Wind	Clear
LEVEL: None					
Light					
Moderate					
Heavy					

002018799

CONTACT INFORMATION

Company: Crane Environmental Services, LLC
Address: 4209 Highway 41 North, Suite 24
Contact: Ellen R. Mullen
Special Instructions: Account #: 4001
Phone: (812) 909-0829

PROJECT INFORMATION

Project ID: 118-2021
Project Desc.: 602 East Blackford Avenue
Project Zip Code: 47713
Sampling Date & Time: 10/8/18 11:45am
PO Number:

TURN AROUND TIME CODES - (TAT)

STD - Standard (DEFAULT)
ND - Next Business Day
SD - Same Business Day Rush
WH - Weekend/Holiday

Rushes received after 2pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.

SAMPLE ID	DESCRIPTION	Sample Type (Below)	TAT (Above)	Total Volume/Area (as applicable)	NOTES (Time of day, Temp, RH, etc.)	Asbestos Analysis - PCM Airborne Fiber Count (NIOSH 7400)	Asbestos Analysis - PLM (EPA method 600/R-93-116)	PCK (please specify test)
21-B-1	Duct Tape	B	STD			X		
21-B-2	Duct Wrap	B	STD			X		
21-DUP-1	Hard Plaster	B	STD			X		

Non-Culturable: Spore Trap; Tape Swab Bulk

Other Requests: Fungi - Spore Trap Analysis; Spore Trap Analysis - Other particles; Direct Microscopic Exam (Qualitative); Quantitative Spore Count Direct Exam; 1-Media Surface Fungi (Genus ID + Asp. spp.); 2-Media Surface Fungi (Genus ID + Asp. spp.); 3-Media Surface Fungi (Genus ID + Asp. spp.); Culturable Air Fungi (Genus ID + Asp. spp.); Gram Stain and Counts (Culturable Air and Surface Bacteria); Legionella culture; Total Coliform, Fecal (Presence/Absence); Membrane Filtration (Please specify organism); MPN Bacteria (Please specify organism); QuantiTray - Sewage Screen

SAMPLE TYPE CODES

BC - BioCassette™	CP - Contact Plate	T - Tape	D - Dust
AIS - Andersen	ST - Spore Trap: Zefon, Allergenco, Burkard...	SW - Swab	W - Water
SAS - Surface Air Sampler		B - Bulk	SO - Soil
O - Other:			

RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME
Rhiannon Scott	10/8/18 3:00 P.M.		
FedEx 940	10/9/18	K Griffith	

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CES **Crane Environmental Services, Inc.**
4209 Highway 41 North, Suite 24
Evansville, IN 47711
(812) 909-0829 Fax: (812) 909-0471
Evansville, IN 47711

CHAIN OF CUSTODY

Project: 118-2021
Sampled By: Ellen Mullen / Jarred Bannon

Location: 602 E. Blackford Ave
Date: / /2018

DATE	SAMPLE #	MATERIAL SAMPLED	LOCATION	Notes
	1-1	HP	Wall	Entrance
	1-2	HP	Wall	~~Kitchen~~ Closet
	1-3	HP	Wall	Kitchen
	2-4	HP	~~Floor/wall~~ ceiling	UP St.
	2-1	HP	Wall	Upstairs Kitchen
	2-2	HP	Wall	Up St. bedroom
	2-5	HP	~~Wall~~ Ceiling	bathroom upst.
	2-6	HP	Ceiling bathroom	(Duct Tape in open floor vent) 1st
	2-3	HP	Wall	upstairs stairwell

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

CES **Crane Environmental Services, Inc.**
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Evansville, IN 47711

CHAIN OF CUSTODY

Project: 118-2021
Sampled By: Ellen Mullen / Jarred Bannon

Location: 602 E. Blackford Ave
Date: / /2018

DATE	SAMPLE #	MATERIAL SAMPLED	LOCATION	Notes
	1-1	HP	Wall	
	1-2	HP	Wall	
	1-3	HP	Wall	
	1-4	HP	Ceiling	sittingroom Dup1
	1-5	HP	Ceiling	living Rm
	1-6	HP	Ceiling	
	B-1	DT	Basement	44 ft
	B-2	DW	Basement	.85' dia ≈20 wraps 16 ft

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

total Flooring = 22255

CES

Crane Environmental Services, Inc.
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Evansville, IN 47711
(812) 909-0829 Fax: (812) 909-0471
Evansville, IN 47711

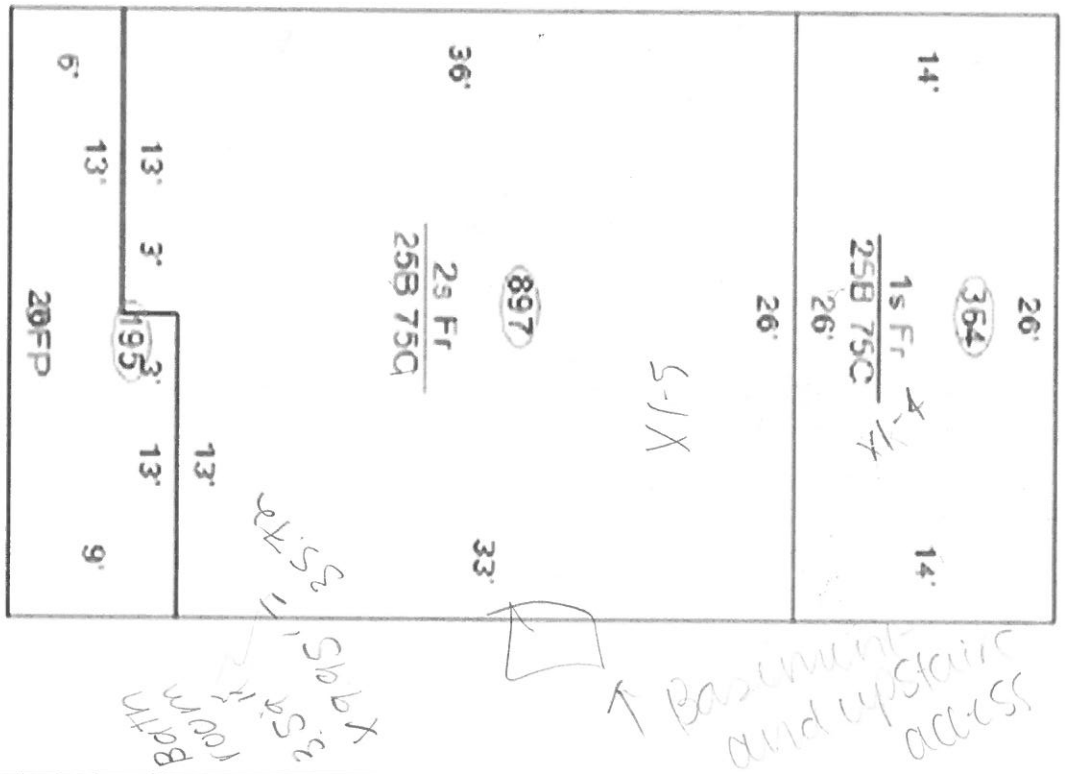
SAMPLING DIAGRAM

Project: 118-2021
Sampled By: Ellen Mullen / Jarred Bannon

Location: 602 E. Blackford Ave
Date: / /2018

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 **Crane Environmental Services, Inc.**
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Evansville, IN 47711
(812) 909-0829 Fax: (812) 909-0471
Evansville, IN 47711

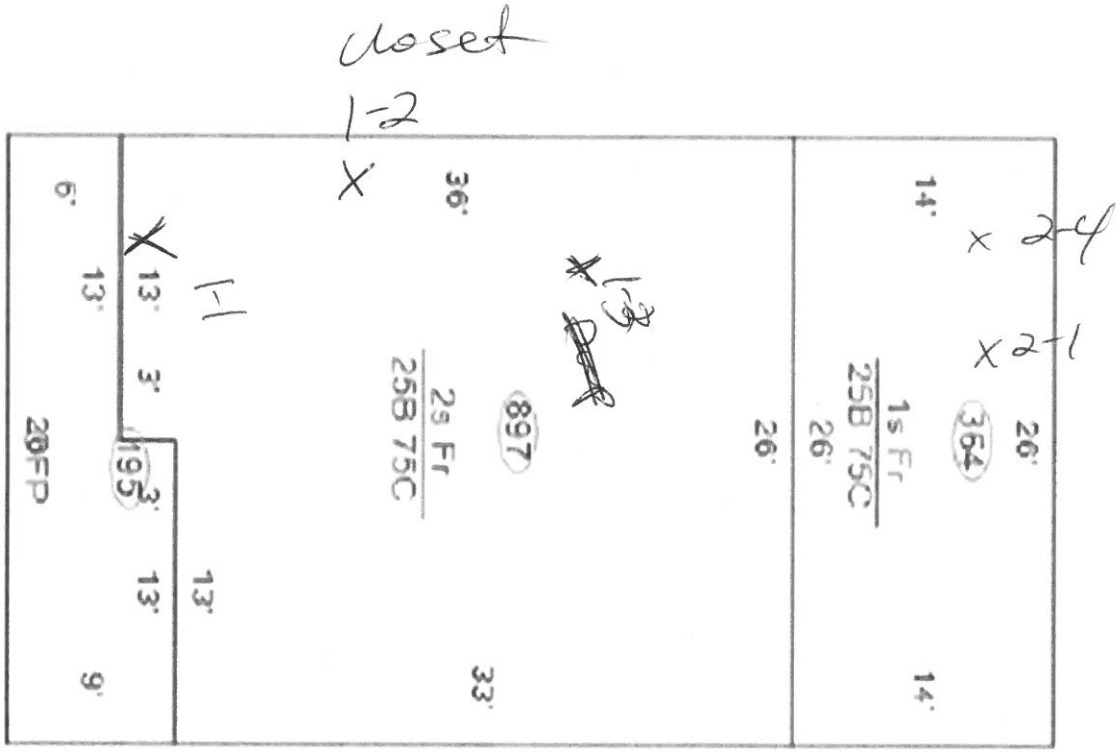
SAMPLING DIAGRAM

Project: 118-2021
Sampled By: Ellen Mullen / Jarred Bannon

Location: 602 E. Blackford Ave
Date: / /2018

Second 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