CRANE
ENVIRONMENTAL SERVICES, LLC

June 3, 2020

Ms. Jessica Swatzell
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 306 Ridgeway Ave., Evansville, Indiana 47713 – Crane Project #120-0064

Dear Ms. Swatzell:

On May 28, 2020, Jarred Bannon 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 one-story vacant house with 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.

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.

Eleven 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
64-1-1	Hard Plaster Wall	Living Room	ND
64-1-2	Hard Plaster Wall	Kitchen	ND
64-1-3	Hard Plaster Wall	Bedroom 1	ND
64-1-4	Hard Plaster Ceiling	Living Room	ND
64-1-5	Hard Plaster Ceiling	Kitchen	ND
64-1-6	Hard Plaster Ceiling	Dining Room	ND
64-1-7	Transite	Exterior Siding	25 Chrysotile
64-1-8	Duct Tape	Bedroom 2/ Floor Vent	ND
64-1-9	Ceiling Texture	Kitchen	ND
64-1-10	Duct Tape	Crawlspace	ND
64-Dup-1 (64-1-1)	Hard Plaster	Living 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, and asphalt roofing products present was assumed 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	1,680.00	52.50
Exterior Siding	Transite	0	0	1870.00	39.00	0	0
Kitchen, Bathroom & Bedrooms 1 & 2	Floor Tile & Sheet Vinyl Flooring (Assumed)	0	0	0	0	696.50	29.02
	Total	**0**	**0**	**1870.00**	**39.00**	**2,376.50**	**81.52**

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,

Jarred Bannon
Asbestos Building Inspector #19A010835
Expiration Date 10/21/2020

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.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
NOTIFICATION OF DEMOLITION AND RENOVATION OPERATIONS

120-0064

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: Jessica Swatzell Telephone #: (812) 436-4555

Removal Contractor	Demolition Contractor
Address:	Address:
City: State: Zip:	City: State: Zip:
Contact: Phone:	Contact: Phone:
IN License #: Expiration:	

Inspector: Jarred Bannon
Address: 4209 Highway 41 North - Suite 24
City: Evansville State: IN Zip: 47711
IN License #: 19A010835 Expiration: 10/21/2020
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: _____ NO: XX

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)	0	0	1870.00	2376.50	0
Total Volume (CuFt) on/off Components	0	0	39.00	81.52	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: 306 Ridgeway Avenue

City: Evansville State: IN County: Vanderburgh

Location of removal within building: Exterior Siding

Building Size (SqFt): 1,040 # of Floors: 1 Age: 91

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:

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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: 120-0064; 306 Ridgeway Ave.
EML ID: 2413579

Approved by:

Approved Signatory
Tracy Garcia

Dates of Analysis:
Asbestos PLM: 05-29-2020

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)
NVLAP Lab Code 201060-0

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 samples as received. 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.

Eurofins 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.

Eurofins EMLab P&K
6500 McDonough Dr, Suite C-10, Norcross, GA 30093
(866) 871-1984 Fax (954) 776-8485 www.emlab.com

Client: Crane Environmental Services, LLC
C/O: Ellen Mullen
Re: 120-0064; 306 Ridgeway Ave.

Date of Sampling: 05-28-2020
Date of Receipt: 05-29-2020
Date of Report: 05-29-2020

ASBESTOS PLM REPORT

Total Samples Submitted:	11
Total Samples Analyzed:	11
Total Samples with Layer Asbestos Content > 1%:	1

Location: 64-1-1, Hard Plaster Wall

Lab ID-Version‡: 11510329-1

Sample Layers	Asbestos Content
White Skim Coat with Beige Paint	ND
Gray Plaster	ND
Sample Composite Homogeneity:	Good

Location: 64-1-2, Hard Plaster Wall

Lab ID-Version‡: 11510330-1

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

Comments: There is no plaster present in this sample bag.

Location: 64-1-3, Hard Plaster Wall

Lab ID-Version‡: 11510331-1

Sample Layers	Asbestos Content
White Skim Coat	ND
Brown Plaster	ND
Sample Composite Homogeneity:	Good

Location: 64-1-4, Hard Plaster Ceiling

Lab ID-Version‡: 11510332-1

Sample Layers	Asbestos Content
White Skim Coat with Paint	ND
Gray Plaster	ND
Sample Composite Homogeneity:	Good

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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Client: Crane Environmental Services, LLC
C/O: Ellen Mullen
Re: 120-0064; 306 Ridgeway Ave.

Date of Sampling: 05-28-2020
Date of Receipt: 05-29-2020
Date of Report: 05-29-2020

ASBESTOS PLM REPORT

Location: 64-1-5, Hard Plaster Ceiling

Lab ID-Version‡: 11510333-1

Sample Layers	Asbestos Content
Off-White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	5% Cellulose
Sample Composite Homogeneity:	Good

Comments: There is no plaster present in this sample bag.

Location: 64-1-6, Hard Plaster Ceiling

Lab ID-Version‡: 11510334-1

Sample Layers	Asbestos Content
White Ceiling Texture	ND
White Skim Coat with Paint	ND
Gray Plaster	ND
Sample Composite Homogeneity:	Good

Location: 64-1-7, Transite

Lab ID-Version‡: 11510335-1

Sample Layers	Asbestos Content
Gray/White Transite with Blue Paint	25% Chrysotile
Sample Composite Homogeneity:	Good

Location: 64-1-8, Duct Tape

Lab ID-Version‡: 11510336-1

Sample Layers	Asbestos Content
Gray Tape	ND
Brown Debris	ND
Composite Non-Asbestos Content:	5% Cellulose 2% Cotton
Sample Composite Homogeneity:	Moderate

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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Client: Crane Environmental Services, LLC
C/O: Ellen Mullen
Re: 120-0064; 306 Ridgeway Ave.

Date of Sampling: 05-28-2020
Date of Receipt: 05-29-2020
Date of Report: 05-29-2020

ASBESTOS PLM REPORT

Location: 64-1-9, Ceiling Texture

Lab ID-Version‡: 11510337-1

Sample Layers	Asbestos Content
White Ceiling Texture	ND
Brown Tape	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Good

Location: 64-1-10, Duct Tape

Lab ID-Version‡: 11510338-1

Sample Layers	Asbestos Content
Gray Tape	ND
Brown Debris	ND
Composite Non-Asbestos Content:	5% Cotton 2% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 64-Dup-1, Hard Plaster Wall

Lab ID-Version‡: 11510339-1

Sample Layers	Asbestos Content
White Skim Coat with Beige Paint	ND
Gray Plaster	ND
Sample Composite Homogeneity:	Good

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

www.EMLabPK.com

EMLab P&K

002413579

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					

REQUESTED SI

Non-Culturable		Culture		Other Requests
Spore Trap	Tape Swab Bulk	BioCassette™ Andersen, SAS, Swab, Water, Bulk, Dust, Soil, Contact Plate		

Fungi - Spore Trap Analysis	Spore Trap Analysis - Other particles	Direct Microscopic Exam (Qualitative)	Quantitative Spore Count Direct Exam	1-Media Surface Fungi (Genus ID + Agt. spp.)	2-Media Surface Fungi (Genus ID + Agt. spp.)	3-Media Surface Fungi (Genus ID + Agt. spp.)	Culturable Air Fungi (Genus ID + Agt. 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)	QuanTray - Sewage Screen	Asbestos Analysis - PCM Airborne Fiber Count (NIOSH 7400)	Asbestos Analysis - PLM (EPA method 600/R-93-116)	PCR (please specify test)		

CONTACT INFORMATION

Company: Crane Environmental Services, LLC
Address: 4209 Highway 41 North Suite 24, Evansville, IN 47711
Contact: Ellen R. Mullen
Special Instructions: Account #: 4001
Phone: (812) 909-0829

PROJECT INFORMATION

Project ID: 120-0064
Project Desc.: 306 Ridgeway Ave.
Project Zip Code: 47713
Sampling Date & Time: 5/28/2020 9:00 a.m.
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)
64-1-1	Hard Plaster Wall	B	STD			X		
64-1-2	Hard Plaster Wall	B	STD			X		
64-1-3	Hard Plaster Wall	B	STD			X		
64-1-4	Hard Plaster Ceiling	B	STD			X		
64-1-5	Hard Plaster Ceiling	B	STD			X		
64-1-6	Hard Plaster Ceiling	B	STD			X		
64-1-7	Transite	B	STD			X		
64-1-8	Duct Tape	B	STD			X		
64-1-9	Ceiling Texture	B	STD			X		
64-1-10	Duct Tape	B	STD			X		
64-Dup-1	Hard Plaster Wall	B	STD			X		

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
Jason Ba	5/28/20 12:00 P.M.

RECEIVED BY	DATE & TIME
AC 5.29.20	9:50AM

CRANE

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

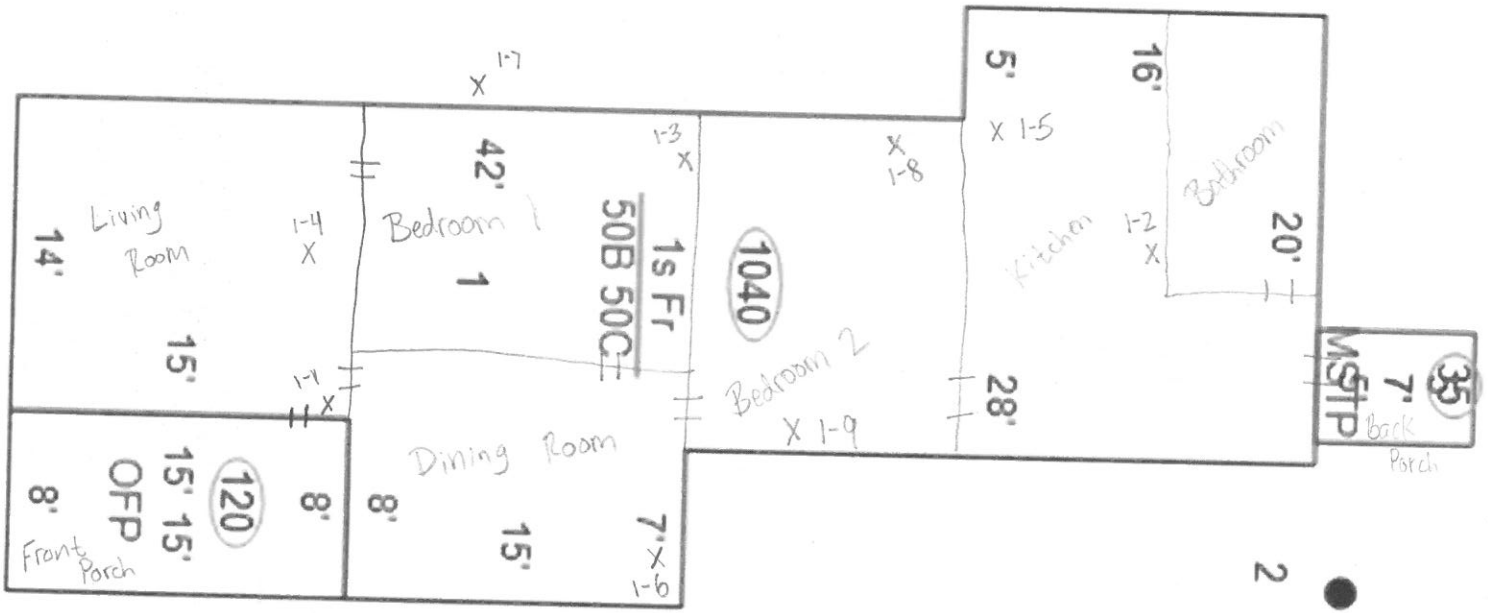
SAMPLING DIAGRAM

Project: 120-0064
Sampled By: Jarred Bannon

Location: 306 Ridgeway Ave
Date: 5/28/2020

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

CRANE

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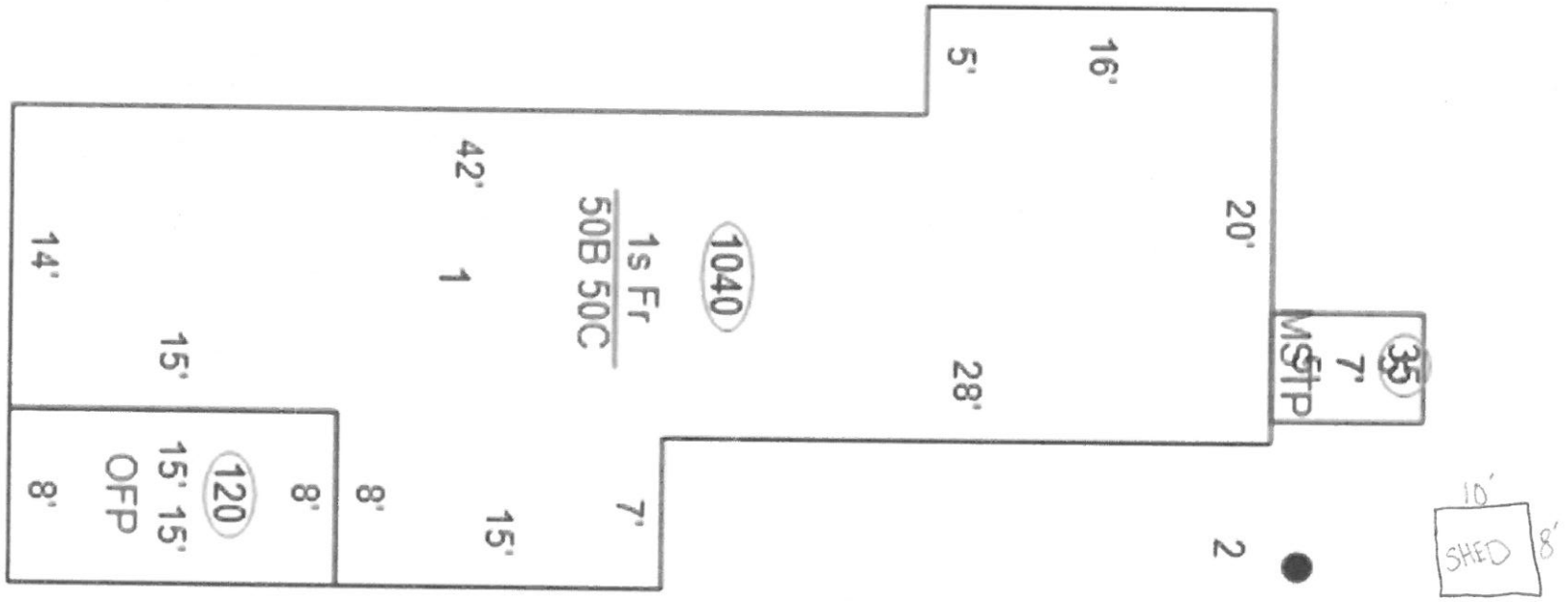
SAMPLING DIAGRAM

Project: 120-0064
Sampled By: Jarred Bannon

Location: 306 Ridgeway Ave
Date: 5/28/2020

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.
4209 Highway 41 North
Suite 24
Evansville, IN 47711
(812) 909-0829 Fax: (812) 909-0471

CHAIN OF CUSTODY

Project: 120-0064
Sampled By: Jarred Bannon

Location: 306 Ridgeway Ave
Date: 5/28/2020

DATE	SAMPLE #	MATERIAL SAMPLED	LOCATION	Notes
	64-1-1	HP	Living Room Wall	Dup. 1
	64-1-2	HP	Kitchen Wall	
	64-1-3	HP	Bedroom 1 Wall	
	64-1-4	HP	Living Room Ceiling	
	64-1-5	HP	Kitchen Ceiling	
	64-1-6	HP	Dining Room Ceiling	Hard Plastic w/ Texture
	64-1-7	TR	Exterior Siding	11ft high
	64-1-8	DT	Bedroom 2 Floor	Vent - Floor 7 vents in total
	64-1-9	Ceiling Texture	Kitchen	
	64-1-10	DT	Crawlspace	Crawlspace not safe due to amount of debris. Two wraps around 6" pipe ≈8' long
		Sheet Vinyl	Kitchen and Bathroom	18' x 16'
				No Attic Access 13'x12', 12.5' x 13', 7.5' x 12'
		Sheet Vinyl	Bedroom 1 & 2 and Dining Room	

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

CRANE
ENVIRONMENTAL SERVICES, LLC

June 3, 2020

Ms. Jessica Swatzell
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 415 N. Barker Ave., Evansville, Indiana 47712 – Crane Project #120-0065

Dear Ms. Swatzell:

On May 28, 2020 Jarred Bannon 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 one and a half story vacant house with a basement, and a 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.

Eleven 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
65-1-1	Hard Plaster Wall	Living Room	ND
65-1-2	Hard Plaster Wall	Bedroom 1	ND
65-1-3	Hard Plaster Wall	Kitchen	ND
65-1-4	Hard Plaster Ceiling	Kitchen	ND
65-1-5	Hard Plaster Ceiling	Living Room	ND
65-1-6	Hard Plaster Ceiling	Bedroom 1	ND
65-1-7	Ceiling Tile	Kitchen	ND
65-1-8	Ceiling Tile	Dining Room	ND
65-1-9	Ceiling Tile	Kitchen	ND
65-B-1	Duct Wrap	Basement/Crawlspace	20 Chrysotile
65-Dup-1 (65-1-3)	Hard Plaster	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 during demolition or renovation operations. All floor tile, sheet vinyl flooring, and asphalt roofing products was assumed 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
Basement/ Crawlspace	Duct Wrap	198.5	2.1	0	0	0.00	0.00
Kitchen & Bathroom	Floor Tile & Sheet Vinyl Flooring (Assumed)	0	0	0	0	252.00	10.50
	Total	**198.5**	**2.1**	**0**	**0**	**252.00**	**10.50**

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,

Jarred Bannon
Asbestos Building Inspector #19A010835
Expiration Date 10/21/2020

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.

.

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

120-0065

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: Jessica Swatzell Telephone #: (812) 436-4555

Removal Contractor	Demolition Contractor
Address:	Address:
City: State: Zip:	City: State: Zip:
Contact: Phone:	Contact: Phone:
IN License #: Expiration:	

Inspector: Jarred Bannon

Address: 4209 Highway 41 North - Suite 24

City: Evansville State: IN Zip: 47711

IN License #: 19A010835 Expiration: 10/21/2020

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: _____ NO: XX

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)	0	0	1870.00	2376.50	0
Total Volume (CuFt) on/off Components	0	0	39.00	81.52	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: 306 Ridgeway Avenue

City: Evansville State: IN County: Vanderburgh

Location of removal within building: Exterior Siding

Building Size (SqFt): 1,040 # of Floors: 1 Age: 91

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:

eurofins | EMLab P&K

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: 120-0065; 415 N. Barker Avenue
EML ID: 2413577

Approved by:

Approved Signatory
Tracy Garcia

Dates of Analysis:
Asbestos PLM: 05-29-2020

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)
NVLAP Lab Code 201060-0

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 samples as received. 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.

Eurofins 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.

Eurofins EMLab P&K
6500 McDonough Dr, Suite C-10, Norcross, GA 30093
(866) 871-1984 Fax (954) 776-8485 www.emlab.com

Client: Crane Environmental Services, LLC
C/O: Ellen Mullen
Re: 120-0065; 415 N. Barker Avenue

Date of Sampling: 05-28-2020
Date of Receipt: 05-29-2020
Date of Report: 05-29-2020

ASBESTOS PLM REPORT

Total Samples Submitted:	11
Total Samples Analyzed:	11
Total Samples with Layer Asbestos Content > 1%:	1

Location: 65-1-1, Hard Plaster Wall Lab ID-Version‡: 11510317-1

Sample Layers	Asbestos Content
White Skim Coat with Paint	ND
Gray Plaster	ND
Sample Composite Homogeneity:	Good

Location: 65-1-2, Hard Plaster Wall Lab ID-Version‡: 11510318-1

Sample Layers	Asbestos Content
White Skim Coat with Paint	ND
Brown Plaster	ND
Sample Composite Homogeneity:	Good

Location: 65-1-3, Hard Plaster Wall Lab ID-Version‡: 11510319-1

Sample Layers	Asbestos Content
White Skim Coat with Brown Wallpaper	ND
Gray Plaster	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Good

Location: 65-1-4, Hard Plaster Ceiling Lab ID-Version‡: 11510320-1

Sample Layers	Asbestos Content
White Skim Coat with Multicolored Paint	ND
Gray Plaster	ND
Sample Composite Homogeneity:	Good

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".

Eurofins EMLab P&K
6500 McDonough Dr, Suite C-10, Norcross, GA 30093
(866) 871-1984 Fax (954) 776-8485 www.emlab.com

Client: Crane Environmental Services, LLC
C/O: Ellen Mullen
Re: 120-0065; 415 N. Barker Avenue

Date of Sampling: 05-28-2020
Date of Receipt: 05-29-2020
Date of Report: 05-29-2020

ASBESTOS PLM REPORT

Location: 65-1-5, Hard Plaster Ceiling

Lab ID-Version‡: 11510321-1

Sample Layers	Asbestos Content
White Skim Coat with Off-White Paint	ND
Brown Plaster	ND
Sample Composite Homogeneity:	Good

Location: 65-1-6, Hard Plaster Ceiling

Lab ID-Version‡: 11510322-1

Sample Layers	Asbestos Content
White Skim Coat with Off-White Paint	ND
Brown Plaster	ND
Brown Insulation	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Good

Location: 65-1-7, Ceiling Tile

Lab ID-Version‡: 11510323-1

Sample Layers	Asbestos Content
Gray Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	30% Cellulose 15% Mineral Wool
Sample Composite Homogeneity:	Good

Location: 65-1-8, Ceiling Tile

Lab ID-Version‡: 11510324-1

Sample Layers	Asbestos Content
Brown Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	85% Cellulose
Sample Composite Homogeneity:	Good

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".

Eurofins EMLab P&K
6500 McDonough Dr, Suite C-10, Norcross, GA 30093
(866) 871-1984 Fax (954) 776-8485 www.emlab.com

Client: Crane Environmental Services, LLC
C/O: Ellen Mullen
Re: 120-0065; 415 N. Barker Avenue

Date of Sampling: 05-28-2020
Date of Receipt: 05-29-2020
Date of Report: 05-29-2020

ASBESTOS PLM REPORT

Location: 65-1-9, Ceiling Tile Lab ID-Version‡: 11510325-1

Sample Layers	Asbestos Content
Brown Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	85% Cellulose
Sample Composite Homogeneity:	Good

Location: 65-B-1, Duct Wrap Lab ID-Version‡: 11510326-1

Sample Layers	Asbestos Content
Gray Wrap	20% Chrysotile
Composite Non-Asbestos Content:	55% Cellulose
Sample Composite Homogeneity:	Good

Location: 65-Dup-1, hard Plaster Wall Lab ID-Version‡: 11510327-1

Sample Layers	Asbestos Content
White Skim Coat with Brown Wallpaper	ND
Gray Plaster	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Good

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

www.EMLabPK.com

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					

002413577

REQUESTED

Non-Culturable | Cul

Spore Trap | Tape Swab Bulk | BioCassette™ Andersen, SAS, Swab, Water, Bulk, Dust, Soil, Contact Plate

CONTACT INFORMATION

Company: Crane Environmental Services, LLC
Address: 4209 Highway 41 North, Suite 42, Evansville, IN 47711
Contact: Ellen R. Mullen
Special Instructions: Account #: 4001
Phone: (812) 909-0829

PROJECT INFORMATION

Project ID: 120-0065
Project Desc.: 415 N. Barker Avenue
Project Zip Code: 47712
Sampling Date & Time: 5/28/2020 10:00 a.m.
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.)	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, E.coli (Presence/Absence)	Membrane Filtration (Please specify organism)	MPN Bacteria (Please specify organism)	QuantiTray - Sewage Screen	Asbestos Analysis - PCM Airborne Fiber Count (NIOSH 7400)	Asbestos Analysis - PLM (EPA method 600/R-93-116)	PCR (please specify test)
65-1-1	Hard Plaster Wall	B	STD																	X		
65-1-2	Hard Plaster Wall	B	STD																	X		
65-1-3	Hard Plaster Wall	B	STD																	X		
65-1-4	Hard Plaster Ceiling	B	STD																	X		
65-1-5	Hard Plaster Ceiling	B	STD																	X		
65-1-6	Hard Plaster Ceiling	B	STD																	X		
65-1-7	Ceiling Tile	B	STD																	X		
65-1-8	Ceiling Tile	B	STD																	X		
65-1-9	Ceiling Tile	B	STD																	X		
65-B-1	Duct Wrap	B	STD																	X		
65-Dup-1	Hard Plaster Wall	B	STD																	X		

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
Jared Z	5/28/20 5:00 P.M.	TC 5.29.20	9:50AM

CRANE

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

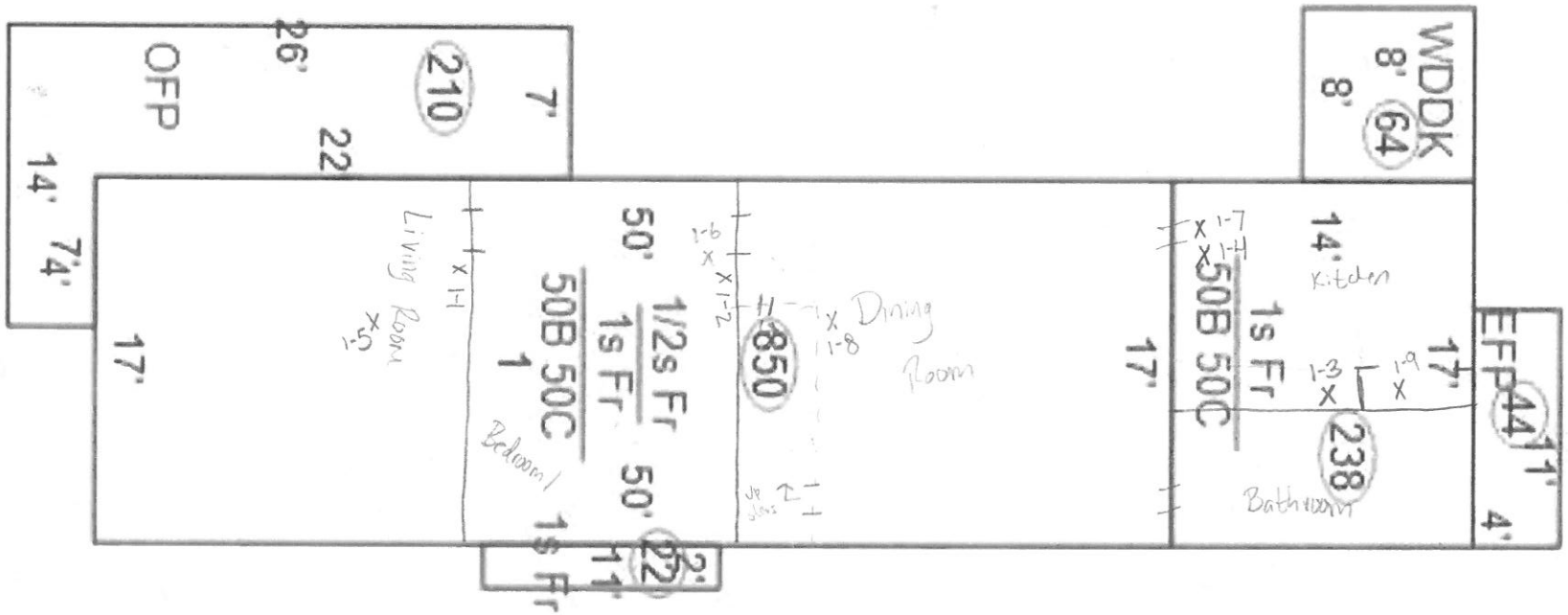
SAMPLING DIAGRAM

Project: 120-0065
Sampled By: Jarred Bannon

Location: 415 N Barker Ave
Date: 5/28/2020

First Floor

Roofing: Shingles Rolled Other Metal
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

CRANE

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Suite 24
Evansville, IN 47711
(812) 909-0829 Fax: (812) 909-0471

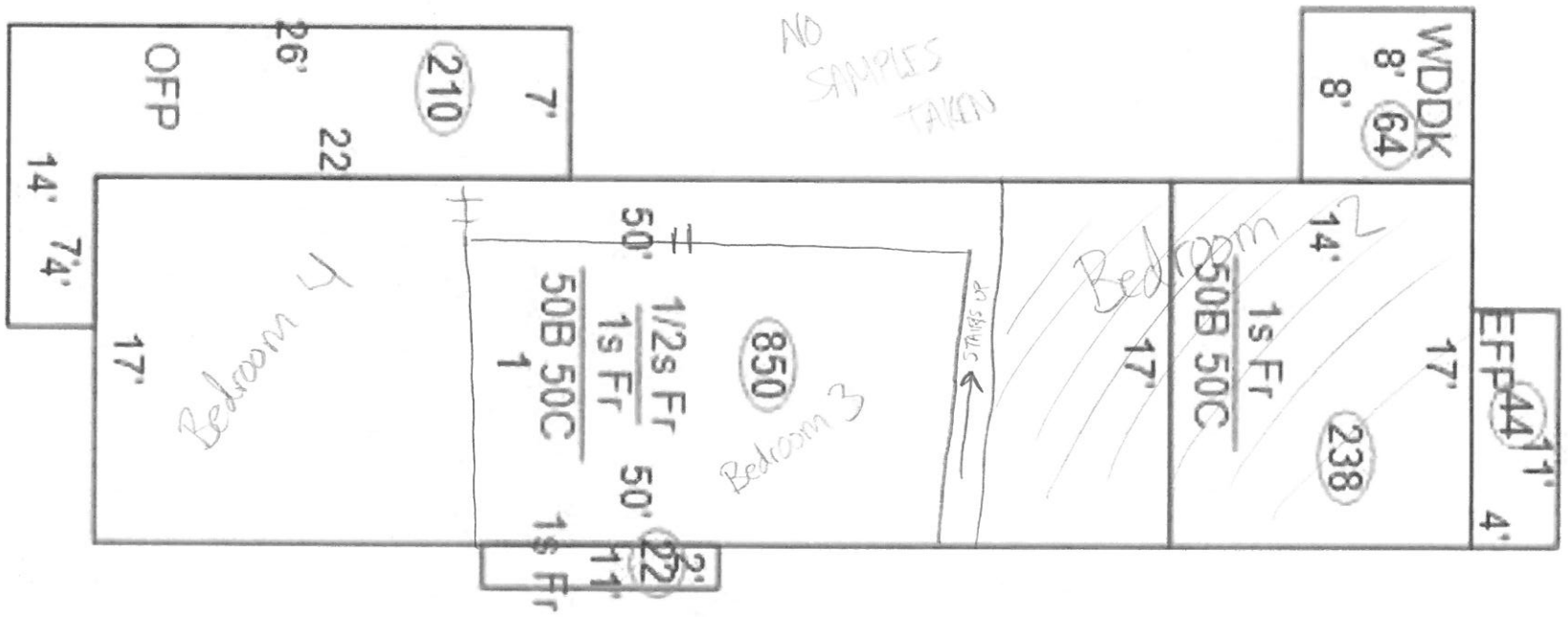
SAMPLING DIAGRAM

Project: 120-0065
Sampled By: Jarred Bannon

Location: 415 N Barker Ave
Date: 5/28/2020

First Floor
Second

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

CHAIN OF CUSTODY

Project: 120-0065
Sampled By: Jarred Bannon

Location: 415 N Barker Ave
Date: 5/28/2020

DATE	SAMPLE #	MATERIAL SAMPLED	LOCATION	Notes
	65-1-1	HP	Living Room Wall	
	65-1-2	HP	Bedroom 1 Wall	
	65-1-3	HP	Kitchen Wall	Dup.
	65-1-4	HP	Kitchen Ceiling	Above CT
	65-1-5	HP	Living Room Ceiling	
	65-1-6	HP	Bedroom 1 Ceiling	
	65-1-7	CT	Kitchen Ceiling	
	65-1-8	CT	Dining Room Ceiling	15'x12'
	65-1-9	CT	Kitchen Ceiling	
	65-B-1	Duct wrap	Basement	10" Pipe Duct, 31 Places, As well as About 60+ LF around ducts,
				Vinyl Flooring Kitchen and Bathroom 14'x15'
				CT Kitchen - 14'x10' (Drop) CT Dining Room - 15'x12' (1'x1' Tiles)

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