

September 5, 2017

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

RE: Asbestos Building Inspection for 1520 West Maryland Street, Evansville, Indiana – CES Project #117-1002.

Dear Mr. Beane:

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

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

Sample	Material	Location	% Asbestos
#			
2-1-1	Hard Plaster - Wall	Kitchen	ND
2-1-2	Hard Plaster - Wall	Living Room	ND
2-1-3	Hard Plaster - Wall	Entry	ND
2-1-4	Hard Plaster - Ceiling	Living Room	ND
2-1-5	Hard Plaster - Ceiling	Kitchen	ND
2-1-6	Hard Plaster - Ceiling	Bedroom	ND
2-B-1	Mag Block	Basement Boiler	30% Chrysotile
2-B-1	Pipe Insulation	Basement	35% Chrysotile
2-Dup-1	Hard Plaster - Wall	Kitchen	ND
(2-1-1)			

1120 Star Gate Road

Evansville, IN 47725

Phone: (812) 868-0709

Fax: (812) 868-1232

## ND - Non-detect

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

Location	Material	RACM To Be Removed (SqFt)	Category I & II Non-Friable To Be Removed (SqFt)	Category I & II Non- Friable Not To Be Removed (SqFt)
Roof	Asphalt Roofing (Assumed)	0	0	1417.5
Basement	<b>Boiler Insulation</b>	32	0	0
Basement	Pipe Insulation	49 LnFt	0	0
Kitchen & 2 <sup>nd</sup> Floor Bathroom	Floor Tile (Assumed)	0	0	269.6
	Total	32 SqFt 49 LnFt	0	1687.1

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

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

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

1120 Star	Gate Road Evans	ville, IN 47725
Phone: (812) 868-0709	Fax: (812) 868-1232	E-mail: ces@crane-es.com

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

Sincerely,

X Maty

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

1120 Star Gate Road

Evansville, IN 47725

Phone: (812) 868-0709 Fax: (812) 868-1232 E-mail: ces@crane-es.com

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

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

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

- I. <u>Type of Notification -326 IAC 14-10-3(4).</u>
  - A. If this is the <u>original notice</u>, please check the appropriate space on the notification form.
  - B. If this is a <u>revised notice</u>, 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 <u>and</u> (2) the new revised notice. Facsimiles <u>will</u> be accepted by the IDEM.
  - C. All revisions must include a copy of the notice being revised.
  - D. If this is a <u>canceled notice</u>, 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 <u>operator</u> 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. <u>Type of Operation - 326-IAC 14-10-3(3)(C), (O) and (S)</u>

- 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. <u>Procedures, Including Analytical Methods, if appropriate, Used to Detect the Presence</u> 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. <u>Approximate Amount of Asbestos to be Removed - 326 IAC 14-10-3(3)(F)</u>

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

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

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

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. <u>Description of planned Demolition or Renovation Work, Methods/Techniques to be Used,</u> 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 asbestoscontaining 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. <u>If Demolition Ordered by a Governmental Agency, Identify the Agency and Attach a Copy</u> 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. <u>Certification Statement and Signature by Owner/Operator - 326 IAC 14-10-3(3)(O) and</u> (P)

Self-explanatory.

## INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT NOTIFICATION OF DEMOLITION AND RENOVATION OPERATIONS

117-1002

State Fr	rom 44593 (R2 / 8-	-99)					
Ι.	TYPE OF NOTIF	FICATION (check one):	Original * Must inclu	Revised * ude copy of notification wh	Canceled	Courtesy	
II.	FACILITY INFO	RMATION (identify owner, r	removal contractor, demolitio				
	Owner:						
	Address:						
	City:			State:		Zip:	
	Contact:			Telephone	#:		
	Removal Contractor:			Demolition Contractor:			
	City:		Zip:	City:		Zip:	
				Contact:		e:	
	IN License #:		Expiration:	<u> </u>		<u>^</u>	
				(Required for asbest	os projects at schools K	( – 12)	
	Inspector:			Project Designer:			
	Address:						
	City:	State:	Zip:		State:		
	IN License #:		Expiration:	IN License #:		ation:	
	Phone:			Phone:			
III.		RATION (check one) ntentional Burning:	Renovation: Demolition:		Emergency Reno Ordered Demoliti		
IV.	IS ASBESTOS PRESENT? (check one) YES:			NO			
V.	PROCEDURES,	INCLUDING ANALYTICAL M	METHODS, IF APPROPRIATE	USED TO DETECT THE PF	RESENCE AND AMOUNT O	F ASBESTOS MATERIAL	
VI.	APPROXIMATE	AMOUNT OF ASBESTOS (Ir	ncluding Regulated ACM, Ca	ategory I non-friable Categor	rv II non-friable ACM)		
		Regulated ACM to be removed	Non-friable As	sbestos Material removed	Non-friable	e Asbestos Material oved before demolition	
		ACIVITO DE TEHLOVEG	Category I	Category II	Category I	Category II	
Pipes	(LnFt)						
	ce Area (SqFt)			<u> </u>			
	Volume (CuFt) Components		T	Т			
VII.		ATES OF ASBESTOS STRIP	PING/REMOVAL: Star	rt:	End:		
VIII.	SCHEDULED D/	ATES OF RENOVATION:	Start: En	nd: DEM	MOLITION: Start:	End:	
IX.	FACILITY DESC	RIPTION (Including building	name, floor, and room numb	ber)			
	Building Name	e:					
	Street Addres	ss:					
	City:			State:	County	r	
	Location of re	moval within building:					
1	Building Size	(SqFt):			# of Floors:	Age:	
	Present Use:			Prior use:			

Х.	DESCRIPTION OF PLANNE TYPE OF MATERIALS REM		VATION WORK, ME	THODS/T	ECHNIQUES TO BE U	SED, AFFECTI	ED FACILITY CO	DMPONENTS AND
XI.	DESCRIPTION OF WORK P INCLUDING ASBESTOS ST BECOMING FRIABLE IN TH	RIPPING, REMOVAL AND	WASTE HANDLING					·
XII.	DESCRIPTION OF PROCED MATERIAL BECOMES CRUI				CTED ASBESTOS IS	FOUND OR PR	EVIOUSLYNON	I-FRIABLE ASBESTOS
XIII.	WASTE TRANSPORTER			XIV.	WASTE DISPOSAL	SITE		
	Name:				Name:			
	Address:				Address:			
	City:	State:	Zip:		City:	_ State:		Zip:
	Contact:				Contact:			
XV.	IF DEMOLITION ORDERED FACILITY IS NOT INSPECT DEMOLITION OR ASSUME	ED PRIOR TO DEMOLITIO	N, THE DEBRIS MU	ST BE KEF	PT ADEQUATELY WE	T. THE DEBRI	S MUST THEN B	E INSPECTED AFTER
	Name:		Title:			Date orde	red to begin:	
	Authority:					Date of O	rder:	
XVI.	FOR EMERGENCY RENOV	ATIONS:			Date and time of eme	ergency:		
	Description of sudden, unexp	ected event:						
	Explanation of how the event	caused unsafe conditions of	or would cause equip	oment dama	age:			
XVII.	I HEREBY CERTIFY THAT TH SUPERVISORS, TO IMPLEM INDIANAPOLIS AIR POLLUT WAS ACCOMPLISHED SHA	IENT THIS ASBESTOS PRO ION CONTROL BOARD RE	DJECT, WHICH HAVI EGULATION 14. THE	E BEEN TR. E TRAINED	AINED IN 326IAC 14-10 INDIVIDUAL(S) ALON	;40 CFR PART	61, SUBPART M	; AND, IF APPLICABLE,
	Owner/operator (signature)				date			
	Owner/operator (printed)				affiliation			
******	*****	******		NI Y ****	*****	*****	*****	*****
POSTM		RECEIVED:			WED BY:		DEFICIENCIE	S:



Report for:

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

Regarding: Project: 117-1002; 1520 W Maryland Street EML ID: 1782667

Approved by:

Approved Signatory Renee Luna

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

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

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

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

## EMLab P&K

Client: Crane Environmental Services, LLC C/O: Ellen Mullen Re: 117-1002; 1520 W Maryland Street

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

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

### ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Total Samples Submitted:	9
Total Samples Analyzed:	9

Total Samples with Layer Asbestos Content > 1%: 2

Location: 2-1-1, Hard plaster	Lab ID-Version‡: 8334075-1
Sample Layers	Asbestos Content
Brown/Beige Fibrous Material	ND
Yellow Adhesive	ND
Brown Fibrous Material with Multicolored Paint	ND
White Adhesive	ND
Brown Fibrous Material with Green Paint	ND
Yellow Adhesive	ND
White Skim Coat with Beige Paint	ND
Gray Base Coat	ND
Composite Non-Asbestos Content:	10% Cellulose < 1% Hair/Wool
Sample Composite Homogeneity:	Poor

#### Location: 2-1-2, Hard plaster

Lab ID-Version 1: 8334076-1 Sample Lavers Asbestos Content White Skim Coat ND ND Gray Base Coat **Composite Non-Asbestos Content:** < 1% Hair/Wool Sample Composite Homogeneity: Moderate

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

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

<sup>‡</sup> 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".

Aerotech Laboratories, Inc

#### EMLab ID: 1782667, Page 2 of 5

## EMLab P&K

Client: Crane Environmental Services, LLC C/O: Ellen Mullen Re: 117-1002; 1520 W Maryland Street 1501 West Knudsen Drive, Phoenix, AZ 85027 (800) 651-4802 Fax (623) 780-7695 www.emlab.com

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

## ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

#### Location: 2-1-3, Hard plaster

Lab ID-Version‡: 8334077-1

Sample Layers	Asbestos Content
Multicolored Fibrous Material	ND
Yellow Adhesive	ND
Brown Fibrous Material with Blue Paint	ND
Yellow Adhesive	ND
Brown Fibrous Material with Brown Paint	ND
Yellow Adhesive	ND
White Skim Coat	ND
Gray Base Coat	ND
Composite Non-Asbestos Content:	7% Cellulose < 1% Hair/Wool
Sample Composite Homogeneity:	Poor

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Aerotech Laboratories, Inc

Lab ID-Version #: 8334078-1

Lab ID-Version 1: 8334079-1

Lab ID-Version 1: 8334080-1

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: 117-1002; 1520 W Maryland Street Date of Sampling: 08-23-2017 Date of Receipt: 08-24-2017 Date of Report: 08-29-2017

## ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

#### Location: 2-1-4, Hard plaster

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

#### Location: 2-1-5, Hard plaster

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

## Location: 2-1-6, Hard plaster

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

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EMLab P&K

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Client: Crane Environmental Services, LLC C/O: Ellen Mullen Re: 117-1002; 1520 W Maryland Street Date of Sampling: 08-23-2017 Date of Receipt: 08-24-2017 Date of Report: 08-29-2017

## ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

#### Location: 2-B-1, Mag block

Sample Layers	Asbestos Content
Gray Block	30% Chrysotile
Sample Composite Homogeneity:	Good

Location: 2-B-2, Pipe insulation	Lab ID-Version‡: 833408		
Sample Layers	Asbestos Content		
Gray Pipe Insulation	35% Chrysotile		
Sample Composite Homogeneity:	Good		

#### Location: 2-Dup-1, Hard plaster

Lab ID-Version #: 8334083-1

Lab ID-Version \$\$: 8334081-1

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

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Aerotech Laboratories, Inc

# CHAIN

## www.El

O - Other,

EMLab			REQUESTED SERVICES (#	Boxesi
www.EMLabPK.com		Non-Cuitwrable		
Cherry Hill, NJ: 1936 Olney Avenue, Cherry Hill, NJ 08003 * (866) 871-1984. Phoonix, AZ: 1501 West Knudsen Drive, Phoenix, AZ 85027 * (800) 651-4802 San Bruno, CA: 1150 Bayhill Drive, #100, San Bruno, CA 94066 * (866) 888-66	653	Spore Tape Srap Swab Bulk	BioCassette <sup>N</sup> Apdorsen, SAS, Svaž Water, Bubt, Dist, Soil, Contact Pla	
CONTACT INFOR	MATION			
Company: Crane Environmental Services, LLC Address:	1120 Star Gate Court, Evensville, IN 47725			7400
Contract, Ellen R. Mullen	structions:			HSOE
Phone: (812) 868-0709	ount #: 4001		84P.) 84P.) 84P.) 94P.) 94P.) 94P.) 94P.) 94P.) 94P.)	ount (N 0/R-93-
PROJECT INFORMATION	TURN AROUND TIME CODES - (TAT)		Alph 5 Alph 5 Alph 6 Alph 7 Alph 7 Al	601 601
Project ID: 117-1002 STD - Stenda	rd (DEFAULT) Rushes received after 2pm or on	te Trap Analysis Analysis - Other particles oscopic Exam (Qua <sup>t</sup> leztiv e Spore Count Direct Exe	s 10 + (Abs	± uuuuuu uuuuu
Project Desc.: 1520 W. Maryland Street NO - Next Bus	weekends, will be considered	Analysis Other part Barn (Qualit Count Direct	(Genu (Genu (Genu (Cuk (Cuk enus fi fi enus fi fi enus f enus fi e f fi e f f e f e f f e f enus fi e f e f f e f e fi	reen 1 Acres
Project 47710 Sampling 9/22/17 9-00 a m	siness Day received the next business day.	P Ana Historia F Eau	Tungi Rungi On (P	PLA PLA
PO Number: WH - Weeken	weekend analysis needs.	Spore Trap Analysis Pap Analysis - Other Aleruscopic Exam (C Brive Spore Count L	Surface Fungi (Genus ID Surface Fungi (Genus ID Surface Fungi (Genus ID le Air Fungi (Genus ID +, le Air Fungi (Genus ID +, le Air Fungi (Freetencr/A) liform, Eatil (Freetencr/A) liform, Eatil (Freetencr/A)	ky - Sewagy Amalysis - F Amalysis - F
SAMPLE ID DESCRIPTION Type (Bedd	24 (Above) (as seedimble) (Time of day Terms BH are )	Fungi - Spore Trap Analysis Spore Nap Analysis - Other particles Ofree Mitenscopic Exam (Qualitating Quantitative Spore Count Direct Exam	1-Meelia Surface Fungi (Genus ID + Ap spp.) 2-Meelia Surface Fungi (Genus ID + Ap spp.) 3-Modia Surface Fungi (Genus ID + Ap. spp.) Grant Stein and Counts (Genus ID + Ap. spp.) Grant Stein and Counts (Culturable Air and S. Legousku culture Total Coliform, East (Presence/Absence) Membrane Fileation (Please specify organism) MEN Bacteria (Please specify organism)	Quantificay - Scwage Serecti Asbestos Analysis - PCM Arburne Fiber Count (NBOSH 7400) Addestos Analysis - PLM (EPA method 600/R-93-116) PCR (please specify test)
2-1-1 Hand Plaster B				X
2-1-2 Hard Plaster 2	sro			×
2-1-3 Hard Plastor B	STD		· · · · · · · · · · · · · · · · · · ·	
2-1-4 Hard Plastor B	sto .		- , , , , ,	×
2-1-5 Hard Plaster B	STD .			
2-1-6 Hard Plaster B.	STD (			×
2-8-1 Mag Block 8	STD			×
2-9-2 Pipe Insulation B	: \$TD i			×
2-Dog-1 Hard Plester B	STD .			
		i	<b></b>	
SAMPLE TYPE CODES	RELINQUISHED BY DATE & TIME	· ·	RECEIVED BY	DATE & TIME
BC - BioCassette D - Duse D - Duse	a. 1 Next 1 08/23/17 5:00	Р.М.		
A15 - Andersen ST - Spore Trap: Zefon, Allergenco, SW - Swab W - Wate				
SAS - Surface Air Sampler Burkard B - Bulk SO - Soil	FEDEX 950 BIZYIN	Korr	(+1/J-1	

By submitting this Chain of Custody, you agree to be bound by the terms and conditions set forth at www.emlabpk.com/terms.html Copyright © 2002-2008 EMLab P&K

#### Crane Environmental Services, Inc. 1120 Star Gate Court Evansville, IN 47725 CES (812) 868-0709 Fax: (812) 868-1232 Evansville, IN 47724-7021

# **CHAIN OF CUSTODY**

**Project:** 117-1002 Sampled By: Caprice Mattingly | Ellen Mullen

HP

Hard Plaster

Location: 1520 W Maryland Street

Sheet Vinyl

Transite

TR

ΟΤ

UK

Other (explain)

Unknown

Date: 8/23/2017

DATE	SAMPLE #	MATERIAL SAMPLED	LOCATION		No	otes	ALELL
		FT	Entry, Kitchen Bath	66496	14 43, 66	" 4'0"	
	2-1-1	HP	Kitchen Vall	Dup 1	( ) -		
	2-1-2	HP	Living room				
	2-1-3	HP	Entry Living Bining				
	2-1-4	HP	Liting Room				
	7-1-5	HP	Citing Kitchen				
	2-B-1	Mag Block	Around burner Bosemen	+ 4'x2			
	2-32	Pipe Tris. PJ		Aspestos	Around Pipe	13". 6" pik	E) (12' 6' pipe x3,
5	2-1-6	'HP'	Bekroom Ceiling				A - I'
				-			
	<u></u>						
	PI	Pipe Insulation	JC Joint Con		Floor Tile	CLK	Caulking
	- PJ	Pipe Joint	INS Insulation	ShVF	Sheet Vinyl	OT	Other (explain)

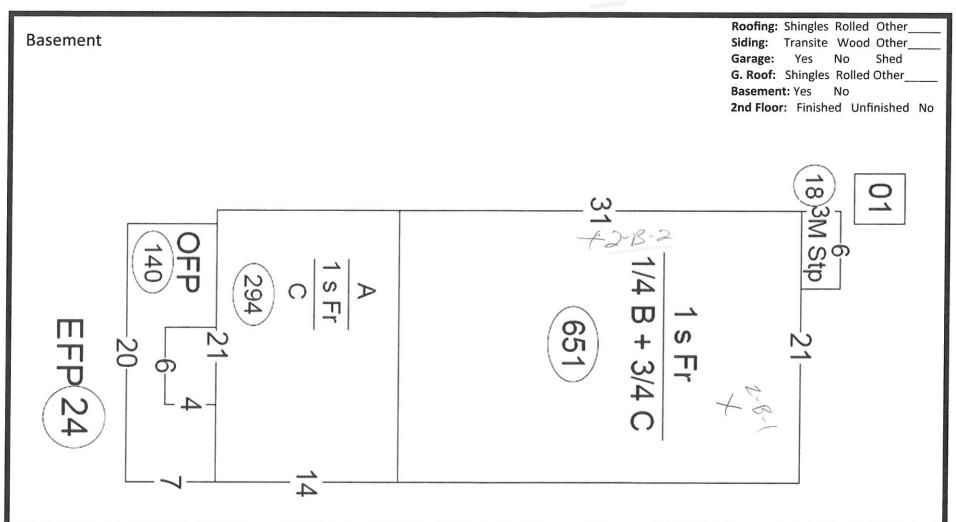
СТ

**Ceiling Tile** 

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# SAMPLING DIAGRAM

Project: 117-1002 Sampled By: Caprice Mattingly | Ellen Mullen Location: 1520 W Maryland Street Date: 8 / 23/2017

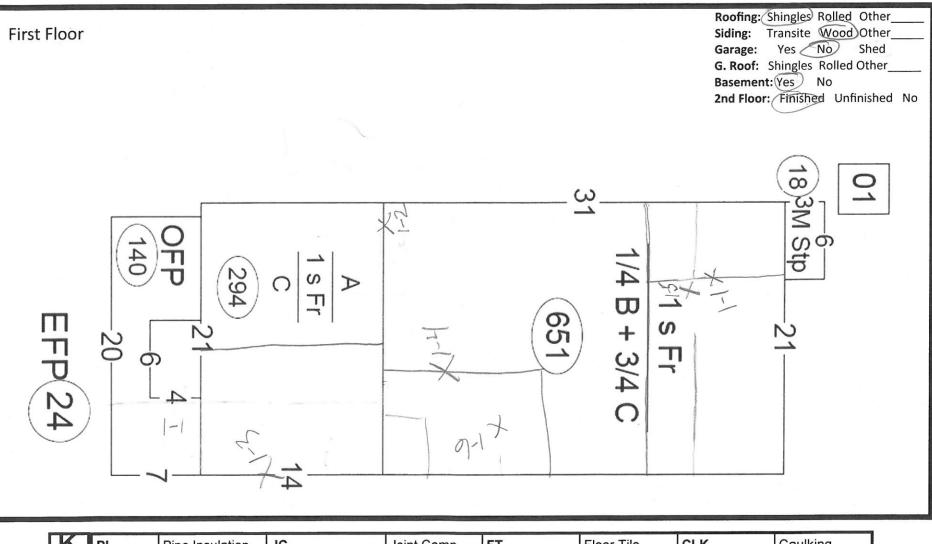


K	PI	Pipe Insulation	JC	Joint Comp.	FT	Floor Tile	CLK	Caulking
IE	PJ	Pipe Joint	INS	Insulation	ShVF	Sheet Vinyl	от	Other
$ \overline{\mathbf{Y}} $	HP	Hard Plaster	СТ	Ceiling Tile	TR	Transite	UK	Unknown

#### Crane Environmental Services, Inc. SAMPLING DIAGRAM CES 1120 Star Gate Court Evansville, IN 47725 (812) 868-0709 Fax: (812) 868-1232 Evansville, IN 47724-7021 Project: 117-1002

Sampled By: Caprice Mattingly | Ellen Mullen

Location: 1520 W Maryland Street Date: 8/ 2 /2017



	2007	Pipe Insulation	JC	Joint Comp.	FT	Floor Tile	CLK	Caulking
FF	PJ	Pipe Joint	INS	Insulation	ShVF	Sheet Vinyl	от	Other
	HP	Hard Plaster	СТ	Ceiling Tile	TR	Transite	UK	Unknown