



Criterion
Laboratories Inc.

Report

ASBESTOS- CONTAINING MATERIALS SURVEY

AT:

**Lebanon VA Medical Center – Building 5
1700 South Lincoln Avenue
Lebanon, PA 17042-7529**

FOR:

**Ms. Kelly Fields
Department of Veterans Affairs
Lebanon VA Medical Center
1700 South Lincoln Avenue
Lebanon, PA 17042-7529**

PREPARED BY:

**Mr. Steven A. Vena, CIH
Project Manager**

3370 Progress Drive, Suite J, Bensalem, PA 19020
215-244-1300 / Fax 215-244-4349
5 Penn Plaza, 23rd Floor, New York, NY 10001
212-244-0033 / Fax 212-244-0155
www.criterionlabs.com

Report Date: January 15, 2015

Project Number: 142073

Date of Project: November 6, 2014

Solicitation #: VA244-14-Q-1389

TABLE OF CONTENTS

Section Number

- 1.0** Narratives
- 2.0** Laboratory Results
- 3.0** Asbestos Inventory
- 4.0** Suspect Materials Testing Negative for Asbestos Content
- 5.0** Sampling Methodology
- 6.0** Drawings with Sample Locations
- 7.0** Photographs of Sampled Materials
- 8.0** Certifications

1.0 NARRATIVES

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1.1 Purpose:

Criterion Laboratories, Inc. (Criterion) was contracted by the Department of Veterans Affairs to conduct asbestos surveys of all buildings located at the Lebanon VA Medical Center campus, located at 1700 South Lincoln Avenue in Lebanon, PA. This report covers the survey performed within **Building 5**.

The purpose of the surveys was to identify and document asbestos-containing materials throughout the campus. The EPA's National Emission Standard for Hazardous Air Pollutants (NESHAP) regulation requires that buildings scheduled for renovations/demolition have an inspection identifying asbestos materials. OSHA's Construction Standard for Asbestos (29 CFR 1926.1101) requires that building materials installed prior to 1981 be inspected for asbestos or they must be classified as presumed asbestos-containing materials (PACM).

1.2 Personnel:

The surveys were performed by Mr. Craig Gratz and Mr. Ryan Hunter, both EPA-accredited, PA-licensed building inspectors, on November 6, 2014. The report was written by Mr. Steven A. Vena, Certified Industrial Hygienist of Criterion.

1.3 Discussion and Survey Results:

A total of nineteen (19) samples were collected during the survey. The samples were analyzed by Polarized Light Microscopy (PLM), which classifies a material as asbestos-containing if it contains greater than one percent asbestos. Asbestos (>1%) was detected in three (3) materials:

- ❖ Interior Window Glaze
- ❖ Black Floor Mastic
- ❖ Black Tar Material

Please refer to Section 3.0, Asbestos Inventory, for specific quantities and locations of all asbestos-containing materials identified.

1.4 Disclaimer:

Information contained herein was obtained by means of onsite observations, bulk sampling, and analytical data. Conclusions will be based upon the data obtained. This is not to imply that the data gathered is all the information that exists which may be pertinent to the site. Any areas inaccessible to the survey team due to reasons beyond the control of Criterion (i.e., behind hard walls, above hard ceilings, hidden pipe chases, etc.) will not be included in this report.

1.5 Conclusions and Recommendations:

Any asbestos-containing material that will be disturbed by planned renovations should be first removed by a licensed abatement contractor.

Section 2.0, Laboratory Results, contains certificates of analyses for all bulk samples collected and analyzed.

Section 3.0, Asbestos Inventory, lists specific locations and quantities of asbestos-containing materials.

Section 6.0 shows drawings with the location of the samples collected. Section 7.0 shows photographs of each homogenous material that was collected as a suspect asbestos-containing material. Section 8.0, Certifications, lists asbestos accreditations for all Criterion employees who worked on this project.

This report is intended to strictly comply with EPA, OSHA, and Pennsylvania regulations governing asbestos. This report should be referenced prior to disturbing any materials that may contain asbestos.

If additional materials are found behind hard walls or ceilings during future renovations, an asbestos building inspector should be contacted to reassess the area.

Criterion appreciates the opportunity to provide you with this Asbestos-Containing Materials Survey Report. Should you have any questions, please do not hesitate to call me at (215) 244-1300, extension 32.



Steven A. Vena, CIH
Project Manager

2.0 LABORATORY RESULTS



Results of Polarized Light Microscopy

Client: VAMC - Lebanon VA Medical Center

Site Address: Lebanon VAMC, 1700 South Lincoln Avenue, Lebanon, PA

Sample Date: 11/6/2014

Project #: 142073

Sample Received Date: 11/11/2014 12:02:00 PM

Collected By: Criterion Laboratories, Inc.

Analyzed By: Leiby, Clinton

Analysis Date: 11/11/2014

Sample # Location / Material Description	Layer	Non - Asbestos		Asbestos		Comments
		Fibrous & Percent	Non-Fibrous %	Asbestos Type	Percent	
142073-5-001 Block Pipe Insulation Building 5 - Basement	I	Cellulose-90	10	None Detected	---	
142073-5-002 Block Pipe Insulation Building 5 - Basement	I	Cellulose-90	10	None Detected	---	
142073-5-003 Block Pipe Insulation Building 5 - Basement	I	Cellulose-90	10	None Detected	---	
142073-5-004 Interior Window Glaze Building 5 - Basement	I	Cellulose-30	40	Chrysotile	30	
142073-5-005 Interior Window Glaze Building 5 - Basement	I	Cellulose-15	60	Chrysotile	25	
142073-5-006 Black Floor Mastic Building 5 - Basement	I	Cellulose-8	90	Chrysotile	2	
142073-5-007 Black Floor Mastic Building 5 - Basement	I	Cellulose-8	90	Chrysotile	2	
142073-5-008 Blue Linoleum Building 5 - 1st Floor - Room 102	I	Cellulose-5	95	None Detected	---	



Results of Polarized Light Microscopy

Client: VAMC - Lebanon VA Medical Center
Project #: 142073

Site Address: Lebanon VAMC, 1700 South Lincoln Avenue, Lebanon, PA
17042-7529

Sample Date: 11/6/2014
Sample Received Date: 11/11/2014 12:02:00 PM

Collected By: Criterion Laboratories, Inc.

Analyzed By: Leiby, Clinton

Analysis Date: 11/11/2014

Sample # Location / Material Description	Layer	Non - Asbestos		Asbestos		Comments
		Fibrous & Percent	Non-Fibrous %	Asbestos Type	Percent	
142073-5-009 Blue Linoleum Building 5 - 1st Floor - Room 104	1	Cellulose-5	95	None Detected	---	
142073-5-010 Drywall/Joint Compound Building 5 - 1st Floor - Throughout	1	Cellulose-10	90	None Detected	---	
142073-5-011 Drywall/Joint Compound Building 5 - 1st Floor - Throughout	1	Cellulose-10	90	None Detected	---	
142073-5-012 Smooth Plaster Building 5 - 1st Floor - Throughout	1	Cellulose-5	95	None Detected	---	
142073-5-013 Smooth Plaster Building 5 - 1st Floor - Throughout	1	Cellulose-10	90	None Detected	---	
142073-5-014 Smooth Plaster Building 5 - 1st Floor - Throughout	1	Cellulose-5	95	None Detected	---	
142073-5-015 White 2'x4' Ceiling Tile Building 5 - 1st Floor - Throughout	1	Cellulose-70	30	None Detected	---	
142073-5-016 Smooth Plaster Building 5 - 2nd Floor - Room 202	1	Cellulose-10	90	None Detected	---	



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Analyzed By: Leiby, Clinton

Analysis Date: 11/11/2014

Sample # Location / Material Description	Layer	Non - Asbestos		Asbestos		Comments
		Fibrous & Percent	Non-Fibrous %	Asbestos Type	Percent	
142073-5-017 Smooth Plaster Building 5 - 2nd Floor - Throughout	1	----	100	None Detected	----	
142073-5-018 Black Tar Material on Wall Building 5 - Attic	1	Cellulose-3	95	Chrysotile	2	
142073-5-019 Black Tar Material on Wall Building 5 - Attic	1	Cellulose-3	95	Chrysotile	2	



Results of Polarized Light Microscopy

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Sample Date: 11/6/2014
Sample Received Date: 11/11/2014 12:02:00 PM
Analysis Date: 11/11/2014

Analyzed By: Leiby, Clinton

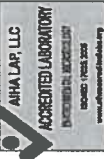
g-c-w

James A. Wetz, CIH, President

Criterion Laboratories, Inc. bears no responsibility for sample collection activities of non-Criterion personnel. This report relates only to the samples reported above, and when reproduced, must be in its entirety. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. None Detected = <1%. Unless otherwise noted: Blank results are not subtracted from any results; QC data associated with this sample set is within acceptable limits; Samples were received in good condition.

Note: If your project number ends with an "R", it is a revised report and replaces the original document in full. The above results represent the analysis of bulk sample(s) by Criterion Laboratories, Inc. according to EPA 40 CFR Part 763 Appendix E to Subpart E – Polarized Light Microscopy. The concentration of asbestos is determined by visual estimation.

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Criterion Laboratories, Inc. (ID 100424) is accredited by the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC in the IHLAP; EMLAP and ELLAP accreditation programs for Polarized Light Microscopy (PLM), Phase Contrast Microscopy (PCM); Air-Direct Examination; and Airborne Dust, Paint, Settled Dust by Wipe and Soil for Fields of Testing as documented by the Scope of Accreditation Certificate and associated Scope. Additionally, Criterion Laboratories, Inc. is certified by the Center for Disease Control (CDC) Environmental Legionella Isolation Techniques Evaluation (ELITE) Program for the determination of Legionella in water by culture and holds accreditation from the National Voluntary Laboratory Accreditation Program (NVLAP ID 102046-0) for the determination of asbestos in bulk samples by Polarized Light Microscopy (PLM). This test report must not be used to claim product endorsement by NVLAP, NIST, AIHA or any agency of the US Government. Unless specifically listed as above, these test results are not covered under AIHA-LAP, LLC. 100424 accreditation.



CRITERION LABORATORIES, INC.
ASBESTOS BULK SAMPLE LOG

PROJECT #: 142073

Client: VAMC - Lebanon VA Medical Center		Site Address: Lebanon VAMC - 1700 South Lincoln Avenue, Lebanon, PA	
Analysis:	PLM	TEM	Other
Turnaround Time		Method of Submittal	
24 Hrs	48 Hrs	Field	Walk-in
72 Hrs	Other 3-5 day	Fedex	Other
FS Name #/Work Area:		Inspector: C. Gratz / R. Hunter	
Sample Date: 11-6-14		Project Manager: Steve Vena	
Comments:		Concrete floors in basement Wood floors under carpet	

Sample #	HID #	Material Description (Including Color)	Sample Location	Qty (SF/LF)	Friable (Y/N)	Damaged (S/D/N)	For Laboratory Analysis	
							Asbestos Type (S)	%
5-001	0900	Block Pipe Insulation	Basement	8 LF	Y	N	ND	
-002	0900			-	Y	N	I	
-003	0900			-	Y	N		
-004	2500	Interior Window Glaze	1st Floor - Room 102	25 LF	N	N	chrysotile	30
-005	2500			-	N	N	chrysotile	25
-006	2500	Black Floor Mastic		135 SF	N	N	chrysotile	2
-007	2500		1st Floor - Room 104	-	N	N	ND	
-008	2200	Blue Insulation		50 SF	N	N		
-009	2200			160 SF	N	N	I	
-010	2100	Drywall Joint Compound	Throughout 1st Fl	2200 SF	Y	N		
-011	2100			-	Y	N		
-012	1900	Smooth Plaster		1800 SF	Y	N		
-013	1900		1st Floor - Room 102	-	Y	N		
-014	1900			-	Y	N		

CHAIN OF CUSTODY

Relinquished By (Print/Sign)	Date/Time
C. Gratz	11-10-14

LAB INFORMATION

Received By (Print/Sign)	Date/Time	Analyzed By (Print/Sign)	Date/Time
Nhi Nguyen	11/11/14	C. Gratz	11/11/14



CRITERION LABORATORIES, INC.
ASBESTOS BULK SAMPLE LOG

PROJECT #: 142073

Client: VAMC - Lebanon VA Medical Center
Site Address: Lebanon VAMC - 1700 South Lincoln Avenue, Lebanon, PA

Sample Date: 11-6-14

Comments:

no areas above hard ceilings

FS Name-/Work Area:

Building 5

Inspector: C. Gratz / R. Hunter

Project Manager: Steve Vena

Analysis:	Turnaround Time	Method of Submittal	
		Field	US Mail
24 Hrs	48 Hrs	<input checked="" type="radio"/>	<input type="radio"/>
72 Hrs	Other 3-5 days	<input type="radio"/>	<input type="radio"/>

Sample #	HID #	Material Description (Including Color)	Sample Location	Qty (SF/LF)	Friable (Y/N)	Damaged (S/D/N)	For Laboratory Analysis	
							Asbestos Type (S)	%
5-015	1700	White 2x4 CT	1st Floor - Throughout	800 SF	Y	N	ND	
NS	2200	Blue linoleum	2nd Floor - Room 202	25 SF	N	N		
-016	1900	Smooth Plaster	- Throughout	1400 SF	Y	N		
-017	1900		↓	-	Y	N		
NS	1700	White 2x4 CT	↓	780 SF	Y	N		
-018	2601	Black Tar Mat'l on wall	Attic	420 SF	N	N	chrysotile	2
-019	2601	↓	↓	-	N	N	chrysotile	2

LAB INFORMATION

Received By (Print/Sign)	Date/Time	Analyzed By (Print/Sign)	Date/Time
<i>[Signature]</i>	11/11/14	<i>C. Gratz</i>	11/11/14

CHAIN OF CUSTODY

Relinquished By (Print/Sign)	Date/Time
<i>C. Gratz</i>	11-10-14

3.0 ASBESTOS INVENTORY

SECTION 3.0
ASBESTOS INVENTORY
Lebanon VA Medical Center
1700 South Lincoln Avenue, Lebanon, PA

Building #: 5						
	<u>Location</u>	<u>Material</u>	<u>Quantity</u>	<u>Friable</u>	<u>Condition</u>	
Basement	Basement	Interior Window Glaze	25 Linear Feet (LF)	N		N
	Basement	Black Floor Mastic	135 Square Feet (SF)	N		N
Attic	Attic	Black Tar Material	420 SF	N		N

- Condition: N = No Damage, D = Damage, S = Significant Damage
- Quantities are approximated and must be verified by abatement contractor.

4.0 SUSPECT MATERIALS TESTING NEGATIVE FOR ASBESTOS CONTENT

4.0 Suspect Materials Testing Negative for Asbestos Content

The following materials were observed, sampled, submitted for analysis and found not to be asbestos-containing materials:

- ❖ Block Pipe Insulation
- ❖ Blue Linoleum
- ❖ Drywall Material with Joint Compound
- ❖ Smooth Plaster
- ❖ White 2'x4' Lay-In Ceiling Tile

5.0 SAMPLING METHODOLOGY

5.0 Sampling Methodology

Bulk samples of suspected asbestos-containing material (ACM) were collected in accordance with guidelines set forth by the Environmental Protection Agency (EPA) and the National Institute for Occupational Safety and Health (NIOSH). The procedures for obtaining a bulk sample of suspected ACM are:

1. "Functional Spaces" in the Property were identified. A Functional Space is a spatially distinct unit within a building, which contains identifiable populations of building occupants (i.e. corridor, office space, mechanical area, etc.).
2. The total amount and location of each type of suspected ACM was tabulated.
3. The types of suspected ACM were then grouped as homogeneous materials. Each homogeneous material is defined as being uniform in texture and appearance. Based on these parameters, each homogeneous material was assigned a specific identification number as listed below.

Homogeneous Material I.D. #Reference List

Surfacing

0100 to 0199 - Sprayed-On
0200 to 0299 - Troweled-On
0300 to 0399 - Blown-In
0400 to 0499 - Other Surfacing
1900 to 1999 - Plaster Walls and Ceilings

Thermal

0500 to 0599 - Lagging
0600 to 0699 - Breeching
0700 to 0799 - Duct Insulation
0800 to 0899 - Tank Insulation
0900 to 0999 - Block Pipe Insulation
1000 to 1099 - Joints associated with Block Pipe Insulation
1100 to 1199 - Corrugated/Air Cell Pipe Insulation
1200 to 1299 - Joints associated with Corrugated Pipe Insulation
1300 to 1399 - Compressed Pipe Insulation
1400 to 1499 - Joints associated with Compressed Pipe Insulation
1500 to 1599 - Joints associated with Fibrous Glass Pipe Insulation
1600 to 1699 - Other Thermal

5.0 Sampling Methodology (Continued)

Miscellaneous

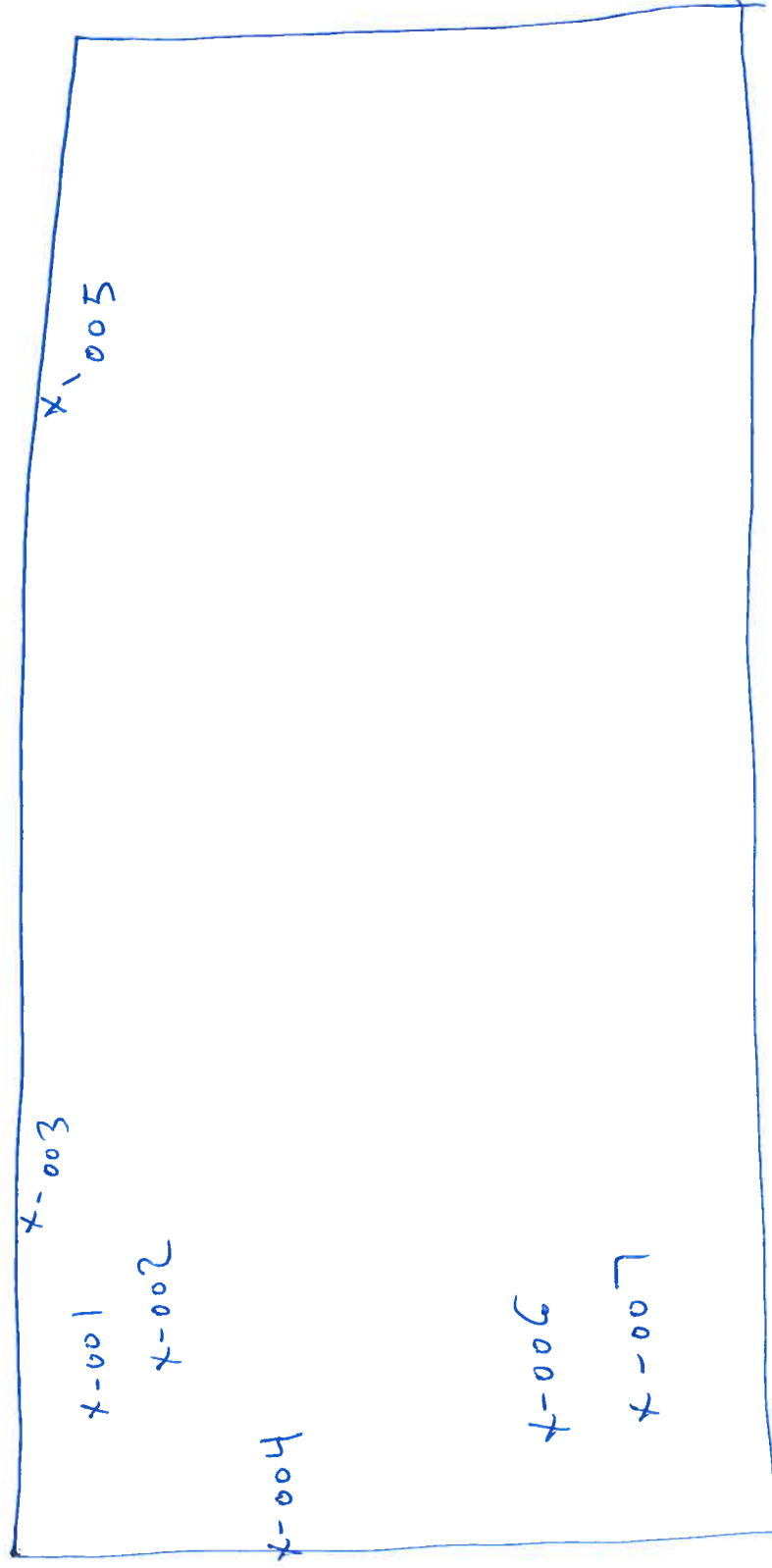
1700 to 1799 - Lay-In Ceiling Tiles
1800 to 1899 - Spline Ceiling Tiles
2000 to 2099 - Floor Tiles
2100 to 2199 - Drywall
2200 to 2299 - Linoleum
2300 to 2399 - Transite
2400 to 2499 - Expansion Joints
2500 to 2599 - Mastic Floor Tiles
2600 to 2699 - Other Miscellaneous
2700 to 2799 - Mastic Linoleum

4. A sampling scheme was devised based upon the amounts and locations of the different homogeneous materials in order to obtain representative samples.
5. Trained personnel using an appropriate sampling tool and a leak-tight, labeled sample container took the actual bulk samples. The sampling was conducted in areas of the building that are not readily visible to the building occupants. These areas included above lay-in ceiling tiles and beneath cabinets and desks, etc.
6. The personnel employed proper decontamination procedures to prevent contamination of the building environment and possible exposure to themselves and others.
7. Each location of suspicious asbestos-containing material (ACM) was documented on the Asbestos Bulk Sample Log. This documentation included the location of suspicious materials, type of material located and square footage of suspicious ACM. All bulk samples taken were documented on the Sample Log form and a Chain of Custody form. Each was completed for all samples taken by the inspector and handler.
8. The samples were then taken to the laboratory for analysis. The Certificates of Analysis and Chain of Custody relative to each sample are included in this report.
9. The inspector assessed the condition of the suspicious ACM using the eight EPA factors.

6.0 DRAWINGS WITH SAMPLE LOCATIONS

142073

11-6-14

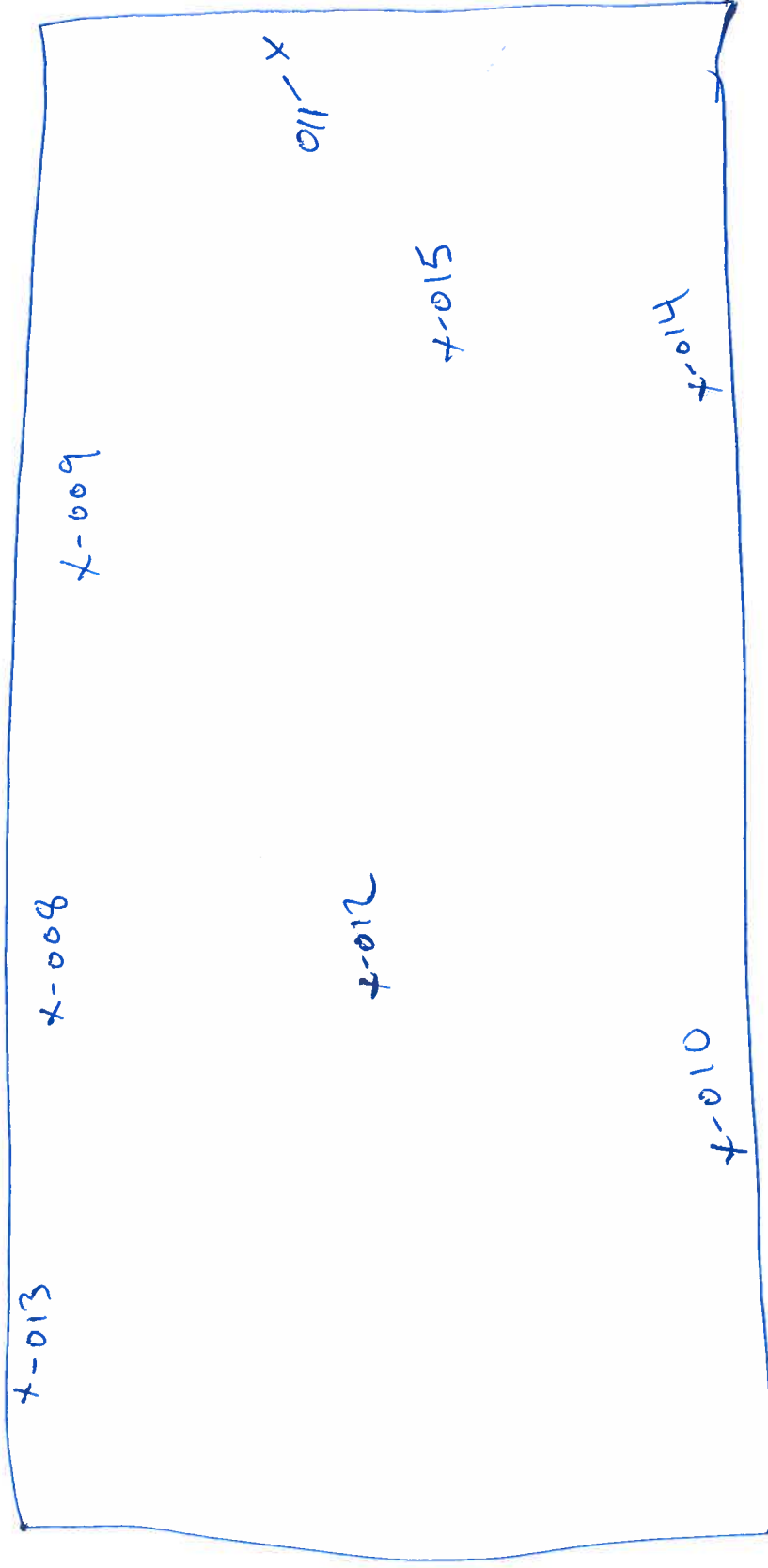


Building 5

- Basement

142073

11-C-14

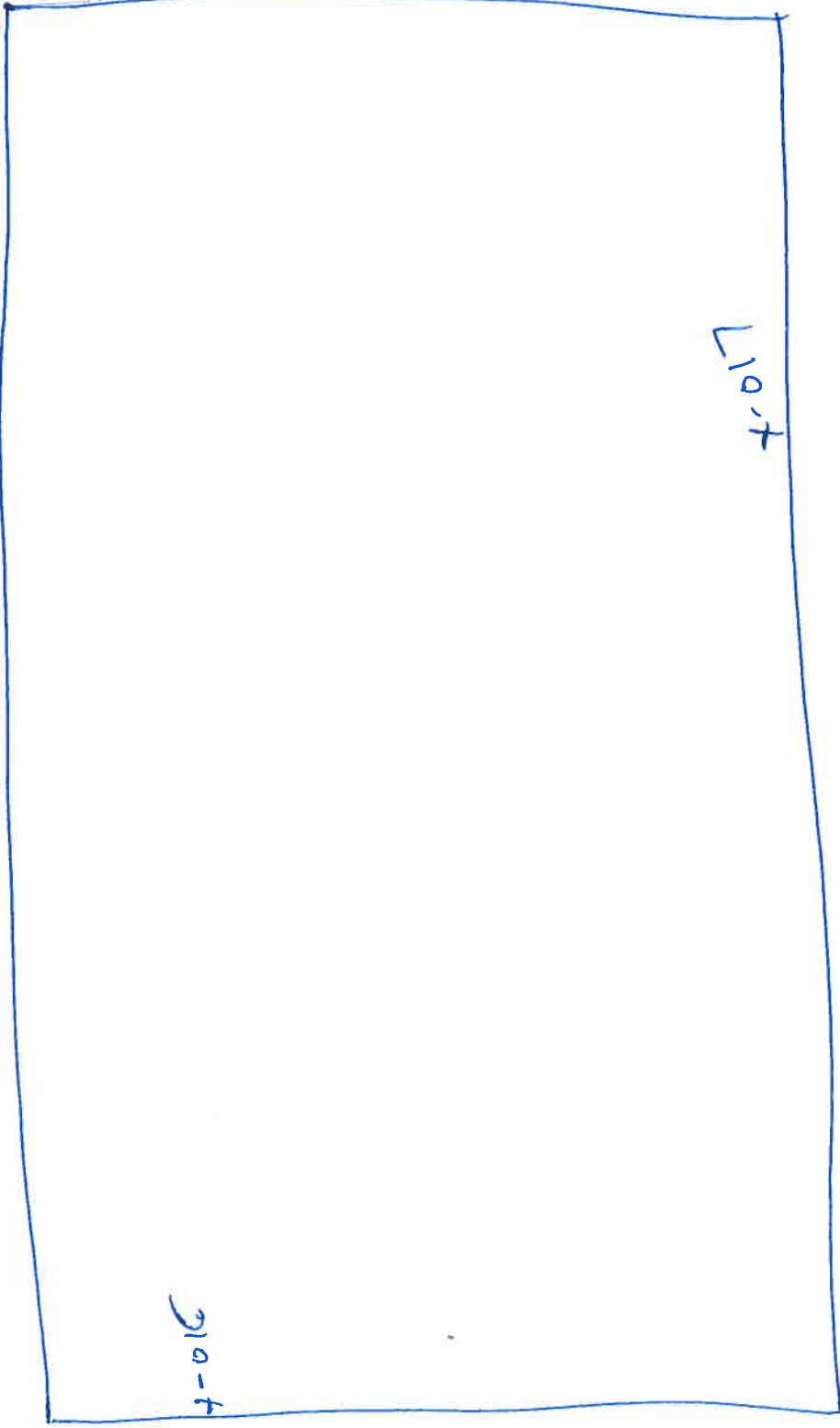


Building 5

- 1st Floor

142073

11-6-15

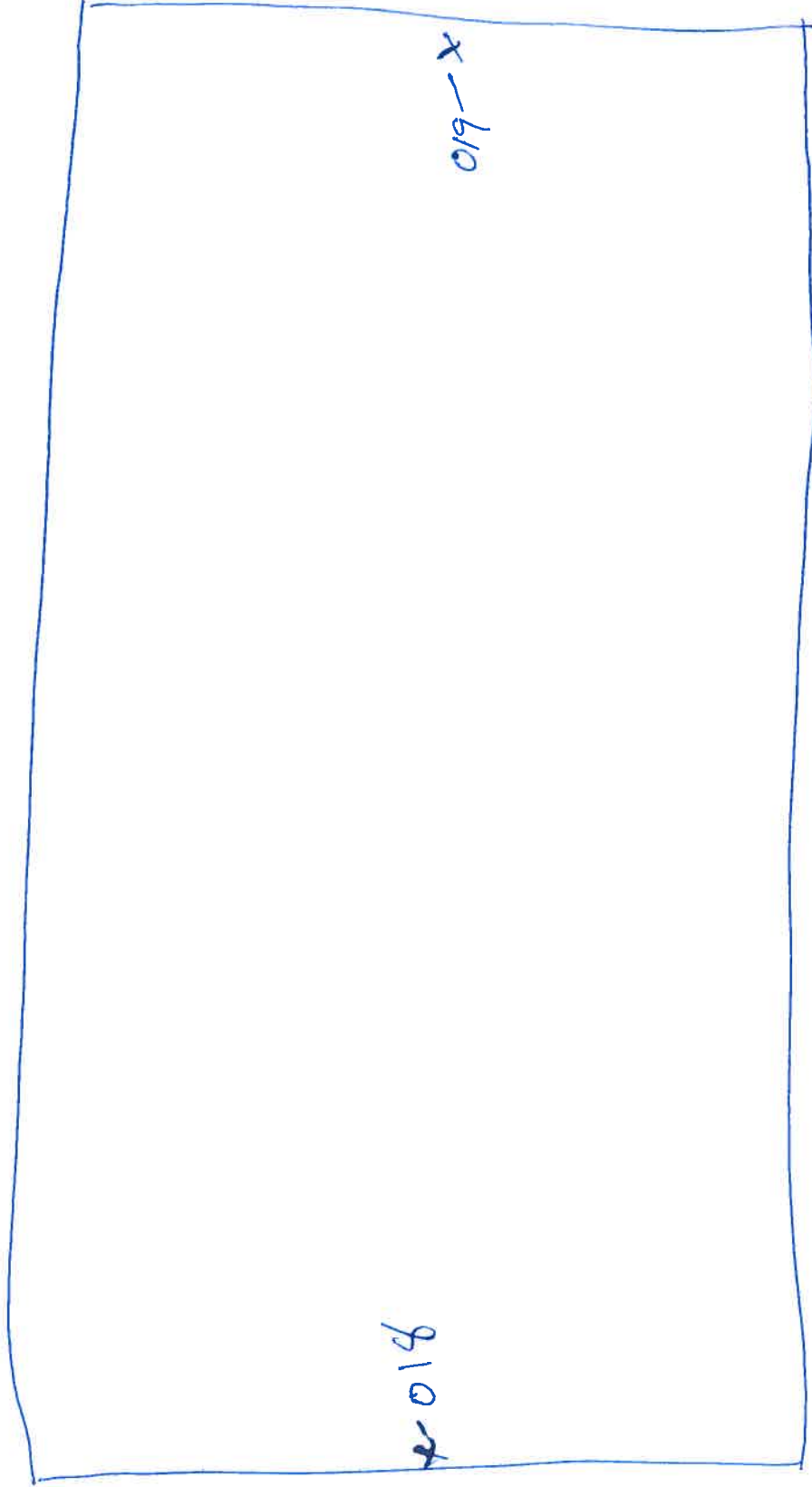


Building 5

- 2nd Floor

142073

11-6-14



Building 5

- Attic

7.0 PHOTOGRAPHS OF SAMPLED MATERIALS

7.0 Photographs of Sampled Materials

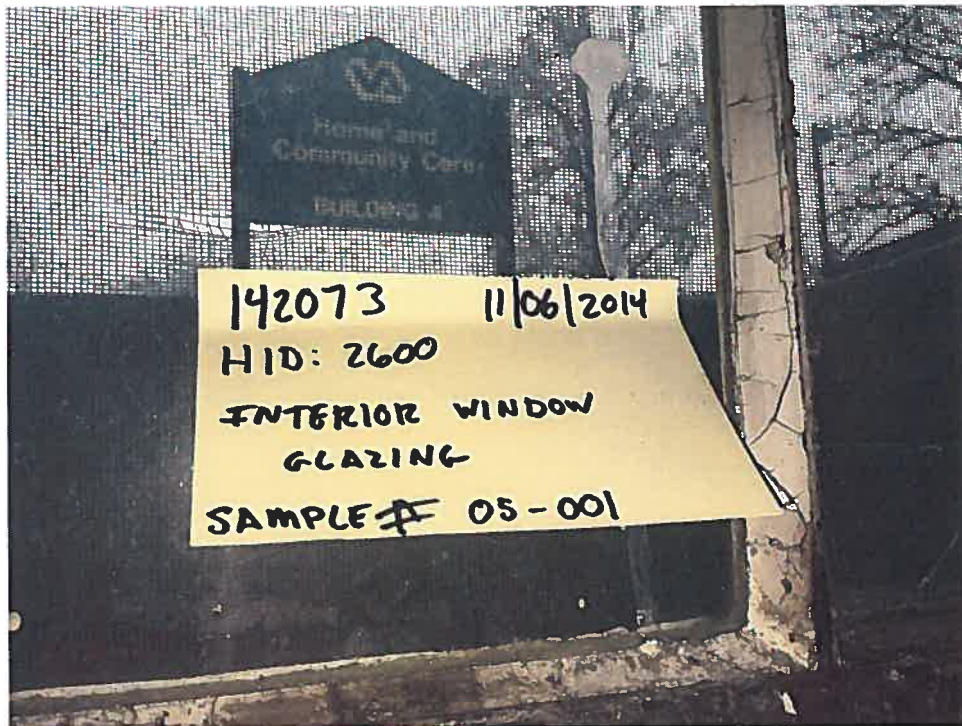


Figure 1: HID#2600 – Interior Window Glaze

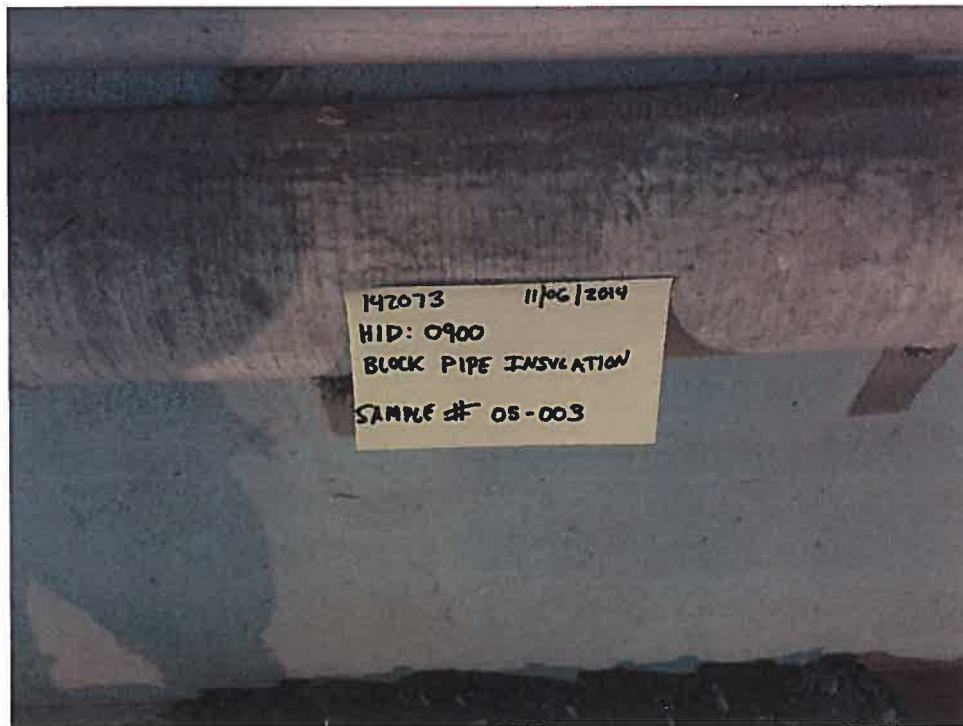


Figure 2: HID#0900 – Block Pipe Insulation

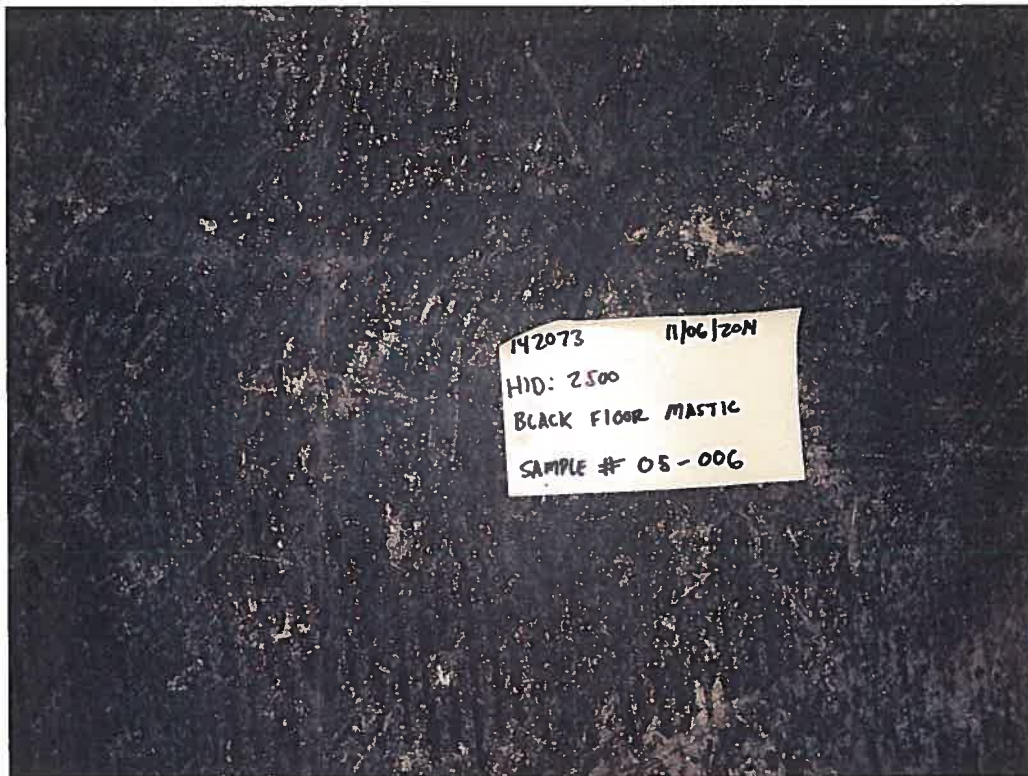


Figure 3: HID#2500 – Black Floor Mastic

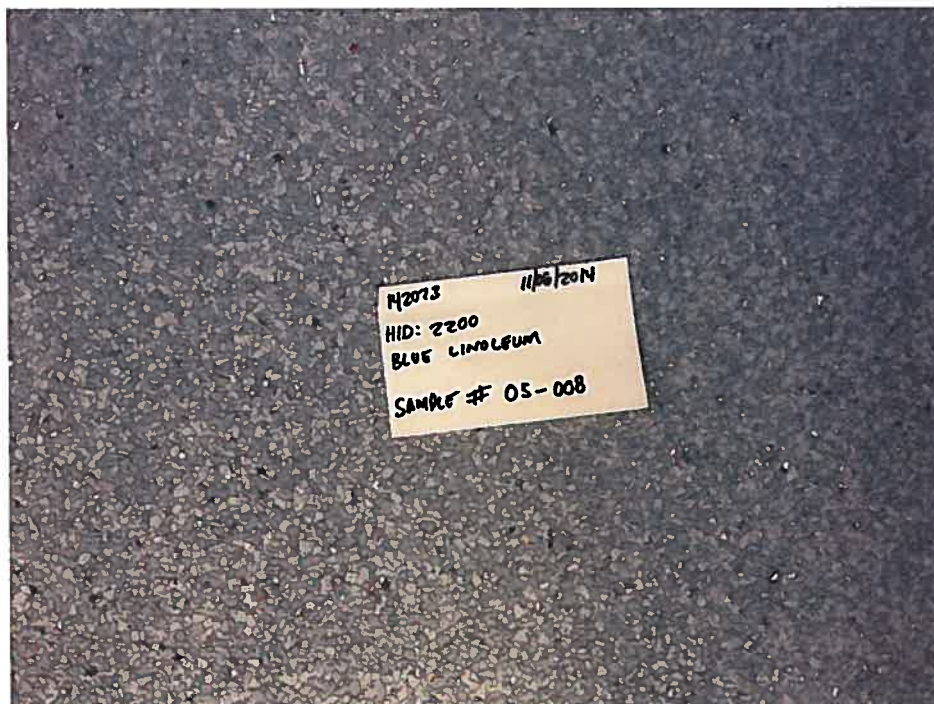


Figure 4: HID#2200 – Blue Linoleum

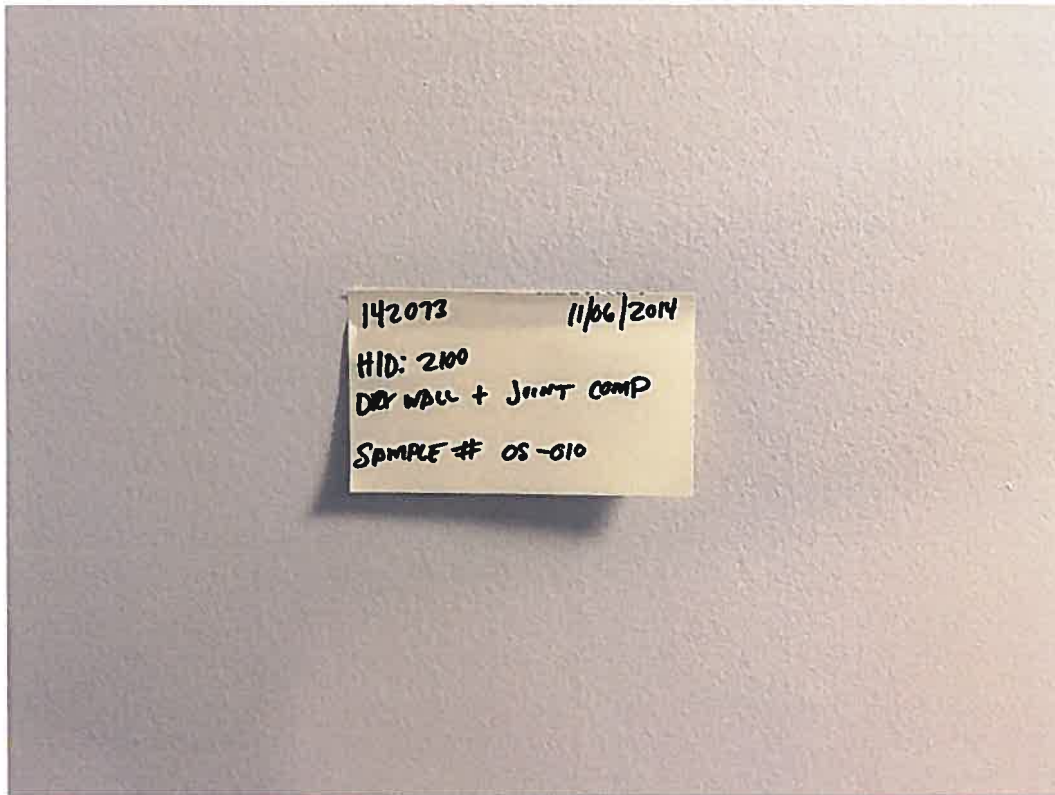


Figure 5: HID#2100 – Drywall with Joint Compound

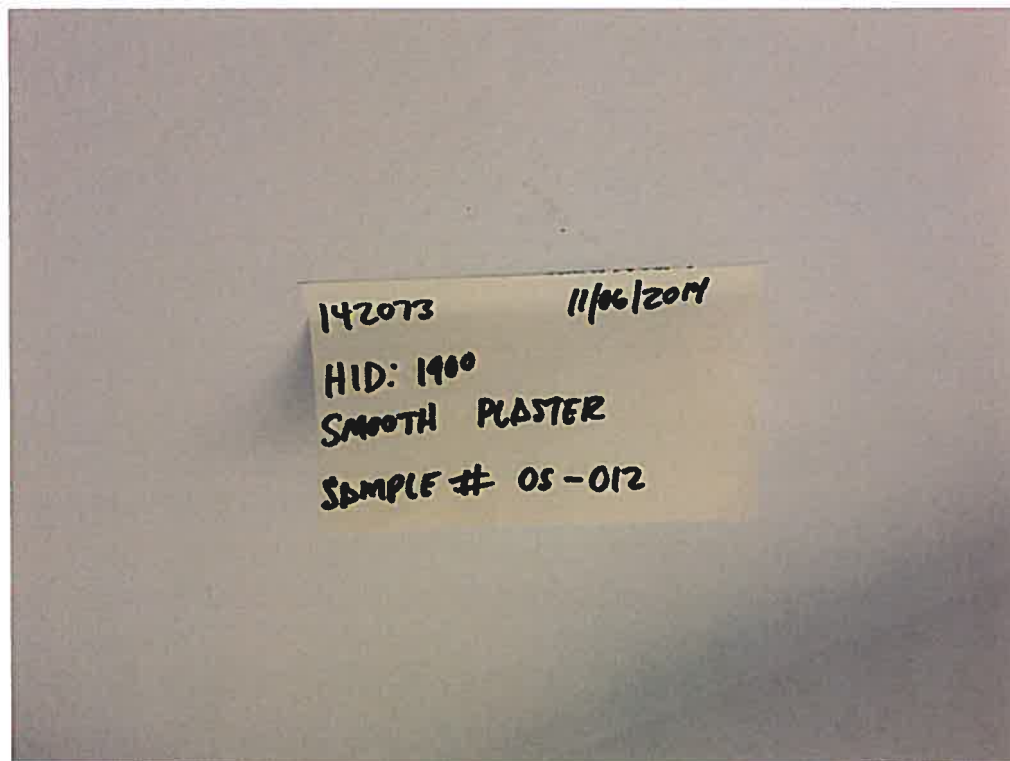


Figure 6: HID#1900 – Smooth Plaster

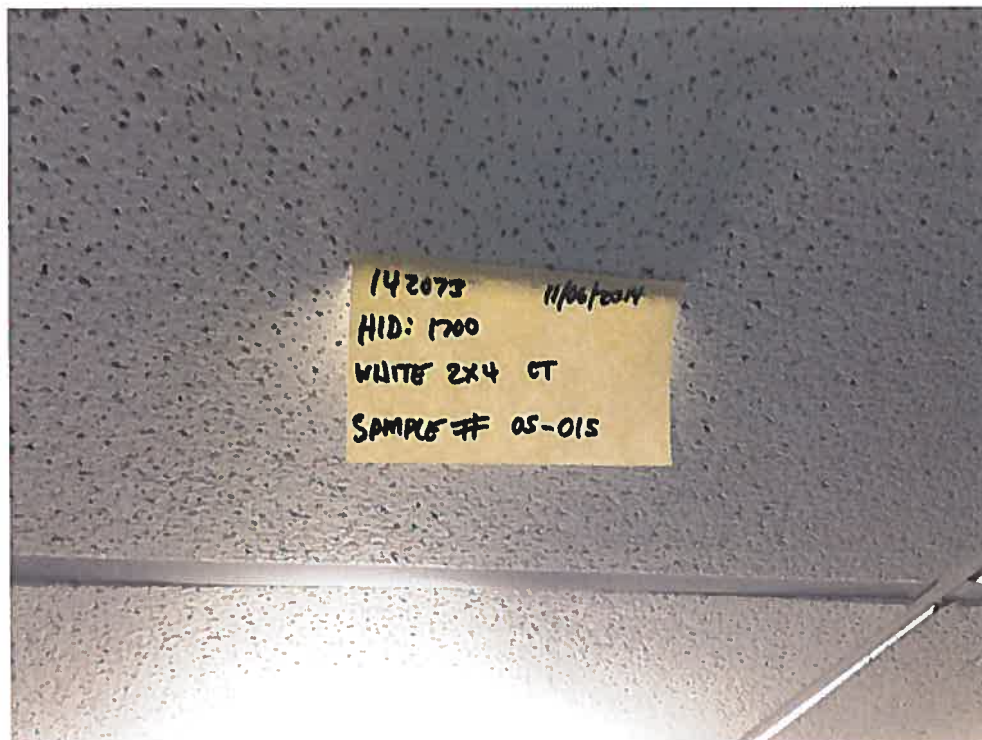


Figure 7: HID#1700 – 2'x4' Lay In Ceiling Tile

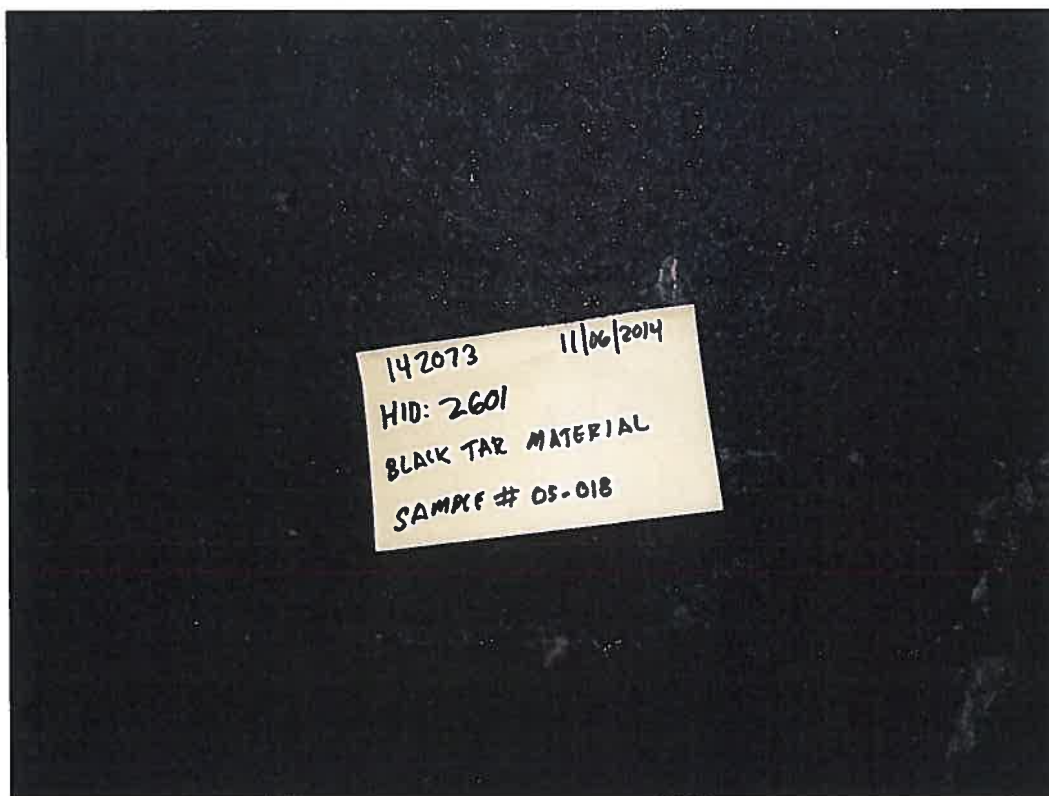


Figure 8: HID#2601 – Black Tar Material

8.0 CERTIFICATIONS

PENNSYLVANIA ASBESTOS CERTIFICATION

050322



Sex: M Height: 5'11" Eyes: BRN Birth Date: 01/16/1987
Expires: 01/07/2015 Issue Date: 01/16/2014
Class: INSPECTOR
RYAN HUNTER
1433 S HICKS STREET
PHILADELPHIA PA 19146

R. Hunter

1.0 0417 141 03

If found, please contact:
Department of Labor & Industry
Certification, Accreditation & Licensing Division
651 Boas Street, Room 1606
Harrisburg, PA 17121.
(717) 772-3396



PENNSYLVANIA ASBESTOS CERTIFICATION

050059



Sex: M Height: 6'00" Eyes: BLU Birth Date: 01/29/1988

Expires: 09/09/2015 Issue Date: 09/24/2014

Class: INSPECTOR

CRAIG M GRATZ
7950 HENRY AVENUE
APT. 33B
PHILADELPHIA PA 19128

CG

1.0



0260 489 10

If found, please contact:

Department of Labor & Industry
Certification, Accreditation & Licensing Division
651 Boas Street, Room 1606
Harrisburg, PA 17121.
(717) 772-3396

