



Criterion  
Laboratories Inc.

## Report

# ***ASBESTOS- CONTAINING MATERIALS SURVEY***

**AT:**

**Lebanon VA Medical Center – Steam Tunnels  
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**

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**Report Date: January 27, 2015  
Project Number: 142073  
Date of Project: December 12, 2014  
Solicitation #: VA244-14-Q-1389**

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## **1.0 NARRATIVES**

## **1.0 NARRATIVES**

### **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 **the Steam Tunnels**.

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, an EPA-accredited, PA-licensed building inspector, on December 12, 2014. The report was written by Mr. Steven A. Vena, Certified Industrial Hygienist of Criterion.

### **1.3 Discussion and Survey Results:**

A total of seven (7) 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.

No asbestos was detected in any of the samples of suspect materials collected.

### **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:**

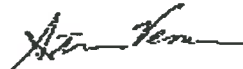
No asbestos-containing materials were identified within the Steam Tunnels. Large portions of the Steam Tunnel system are buried below the ground of the campus and were inaccessible. If the inaccessible portion of the Steam Tunnel system is to be part of future renovations an asbestos building inspector should be contacted to reassess the area.

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

Section 5.0 shows drawings with the location of the samples collected. Section 6.0 shows photographs of each homogenous material that was collected as a suspect asbestos-containing material. Section 7.0, 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.

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.



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Steven A. Vena, CIH  
Project Manager

## **2.0 LABORATORY RESULTS**



# Results of Polarized Light Microscopy

Client: VAMC - Lebanon VA Medical Center  
Project #: 142073  
Collected By: Criterion Laboratories, Inc.

Site Address: Lebanon VAMC, 1700 South Lincoln Avenue, Lebanon, PA  
17042-7529  
Sample Date: 12/12/2014  
Sample Received Date: 1/6/2015 1:28:00 PM  
Analyzed By: Leiby, Clinton  
Analysis Date: 1/7/2015

| Sample #<br>Location / Material Description  | Layer | Non - Asbestos    |               | Asbestos      |         | Comments |
|--|-------|-------------------|---------------|---------------|---------|----------|
|  |       | Fibrous & Percent | Non-Fibrous % | Asbestos Type | Percent |          |
| 142073-ST-001<br>Elbows A/W Fiberglass Pipe Insulation<br>Steam Tunnel - Throughout            | 1     | Fiberglass-40     | 60            | None Detected | ---     |          |
| 142073-ST-002<br>Elbows A/W Fiberglass Pipe Insulation<br>Steam Tunnel - Throughout            | 1     | Fiberglass-40     | 60            | None Detected | ---     |          |
| 142073-ST-003<br>Block Pipe Insulation<br>Steam Tunnel - Throughout                            | 1     | Cellulose-2       | 98            | None Detected | ---     |          |
| 142073-ST-004<br>Block Pipe Insulation<br>Steam Tunnel - Throughout                            | 1     | Cellulose-5       | 95            | None Detected | ---     |          |
| 142073-ST-005<br>Block Pipe Insulation<br>Steam Tunnel - Throughout                            | 1     | ---               | 100           | None Detected | ---     |          |
| 142073-ST-006<br>Black Tar Covering in Fiberglass Pipe Insulation<br>Steam Tunnel - Throughout | 1     | Cellulose-80      | 20            | None Detected | ---     |          |
| 142073-ST-007<br>Black Tar Covering in Fiberglass Pipe Insulation<br>Steam Tunnel - Throughout | 1     | Cellulose-80      | 20            | None Detected | ---     |          |



## Results of Polarized Light Microscopy

Page 2 of 2

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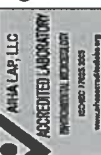
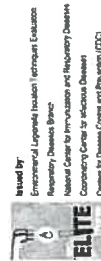
*James A. Wellz*

James A. Wellz, 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.

Report Date: 01/07/2015

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Rev. 05 <11 20130419





### **3.0 SUSPECT MATERIALS TESTING NEGATIVE FOR ASBESTOS CONTENT**

### **3.0 Suspect Materials Testing Negative for Asbestos Content**

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

- ❖ Elbows Associated with Fiberglass Pipe Insulation
- ❖ Block Pipe Insulation
- ❖ Black Tar Covering on Fiberglass Pipe Insulation

## **4.0 SAMPLING METHODOLOGY**

## 4.0 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

## 4.0 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

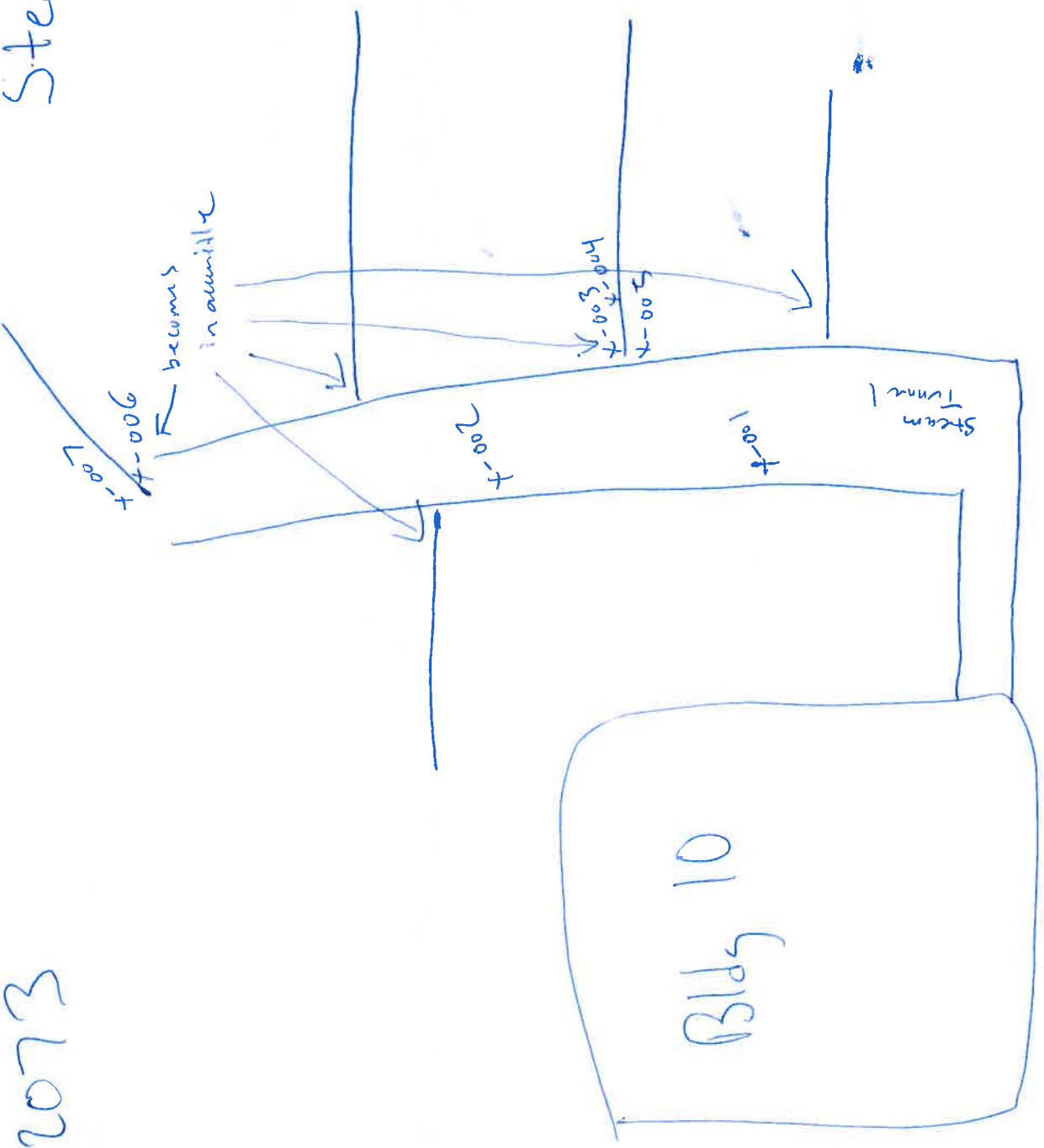
4. A sampling scheme was devised based upon the amounts and locations of the different homogeneous materials in order to obtain representative samples.
5. Trained personnel using an appropriate sampling tool and a leak-tight, labeled sample container took the actual bulk samples. The sampling was conducted 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.

## **5.0 DRAWINGS WITH SAMPLE LOCATIONS**

142073

Steam Tunnel

12-12-14





## **6.0 PHOTOGRAPHS OF SAMPLED MATERIALS**

## 6.0 Photographs of Sampled Materials

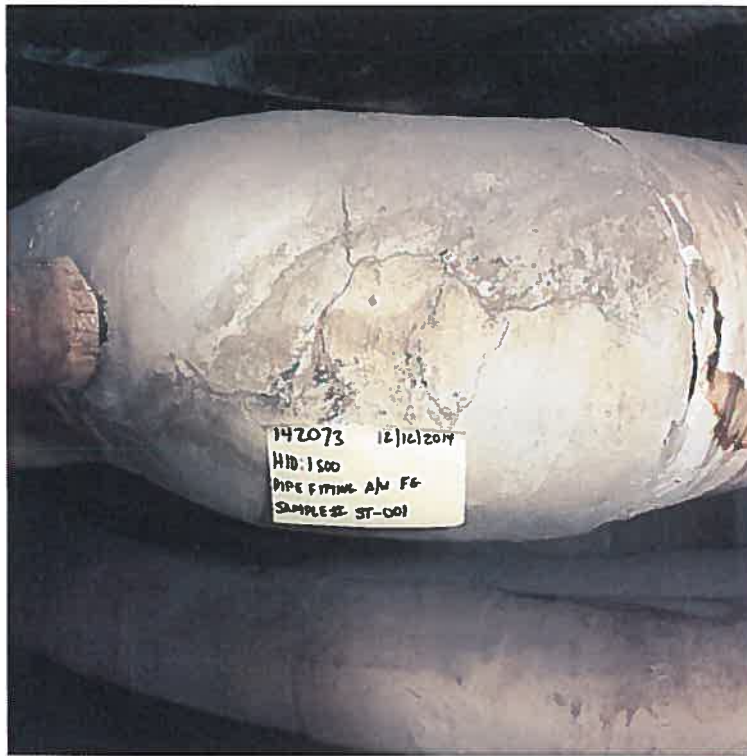


Figure 1: HID#1500 – Fittings Associated with Fiberglass Pipe Insulation

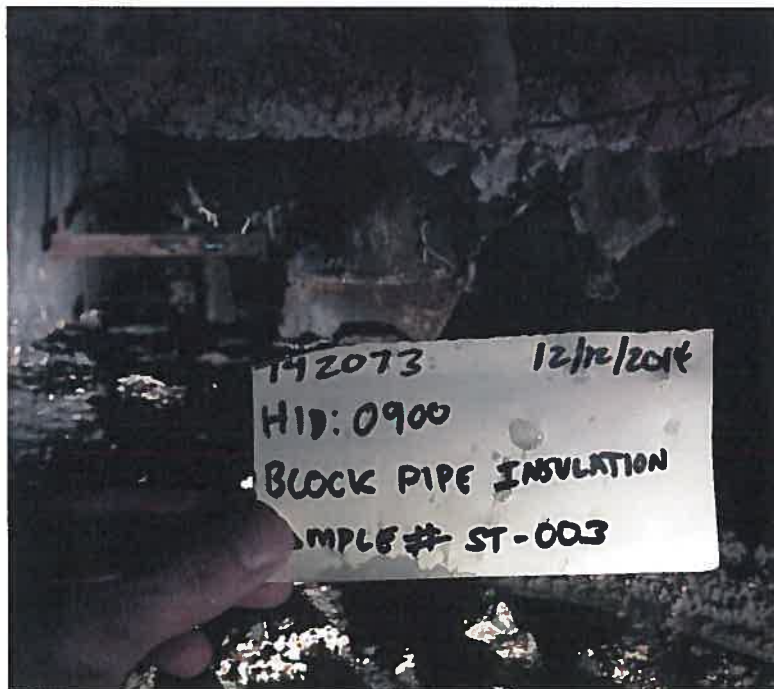


Figure 2: HID#0900 – Block Pipe Insulation

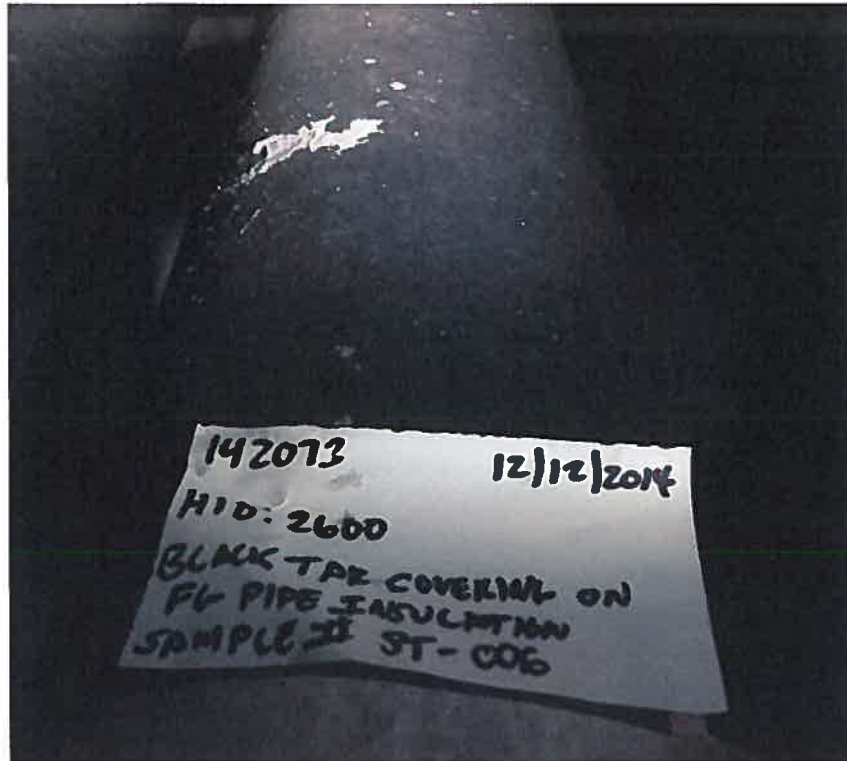



Figure 3: HID#2600 – Black Tar Covering on Fiberglass Pipe Insulation

## **7.0 CERTIFICATIONS**

**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



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**If found, please contact:**

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