ENVIRONMENTAL

# ASBESTOS SURVEY REPORT

**Bob Stump Veterans Affairs Medical Center**
**Building 111**

**Prescott, Arizona**

**Order Number VA649-C10326**

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**Project # 11P-A3138**

# Executive Summary

During January 2011, IHI Environmental conducted a comprehensive asbestos survey of Building 111, at the Bob Stump Veterans Affairs Medical Center in Prescott, Arizona. Mr. Eric Towles was the Contract Officer Technical Representative for this project. The objective of this inspection was to determine the presence and condition of all accessible asbestos-containing building materials (ACBM) and to recommend response actions for the materials identified.

Hazard Rank Codes – All of the ACBM materials, including those that contain less than 1% but greater than none detected, were assigned a Hazard Rank Code of 1, 2, 3, or 4. A Hazard Rank Code of 1 requires an immediate response action. Materials assigned a Hazard Rank Code 4 are those ACBMs that do not pose a significant health risk and do not require immediate response. Hazard Rank Codes were determined by assessing the material condition, accessibility, and potential for future disturbance. The Executive Summary Table below outlines the recommended response actions and abatement costs that accompany Hazard Rank Codes 1 through 3.

Operations and Maintenance Plan – The VA should implement the Operations and Maintenance Plan provided with this project. This plan assigns responsibility for program management and coordination and institutes a formal system for coordinating building construction or maintenance activities so that asbestos-containing materials are not inadvertently disturbed.

Cost Estimates for Removal – The estimated cost to remove all of the ACBM from this building in a single planned abatement project is $74,800. The Material Removal Unit Cost Estimate (Table 6) in Appendix A outlines the estimated removal costs associated with each of the various homogeneous materials identified during this survey.

The report that follows this Executive Summary should be read in its entirety because it includes detailed information, such as material descriptions and locations, regulatory requirements, and building-specific recommended response actions, contained in other sections and appendices.

# Executive Summary

## Response Actions and Cost Estimates
## for Asbestos-Containing Building Materials with Hazard Ranks of 1, 2, or 3
## Building No.: 111 (Building 111)

| **Hazard Rank # 2** | **Damaged or significantly damaged ACBM with a low to moderate disturbance potential. These materials require removal, repair, encapsulation and/or enclosure.** | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Building No.** | **Building Name** | **Room No.** | **Material Code(1)** | **Material Description** | **Quantity** | **Hazard Rank** | **Material Comments** | **Recommended Response Actions** | **Cost Estimate for Response Actions** |
| 111 | Building 111 | 201 | T03.05 | Straight pipe insulation debris (Assumed based on pipe insulation in area) | 50 ln. ft. | 2 | Pipe insulation debris above Rooms 202, 202A and 203. | Remove debris, clean surfaces, and repair damaged insulation OR remove/replace insulation | $500 to $4000 (includes Rooms 202, 202A, & 203) |
| 111 | Building 111 | 202 | T03.05 | Straight pipe insulation debris (Assumed based on pipe insulation in area) | 0 ln. ft. | 2 | Pipe insulation debris above hard ceiling (debris actually in Room 201). | Remove debris, clean surfaces, and repair damaged insulation OR remove/replace insulation | |
| 111 | Building 111 | 202A | T03.05 | Straight pipe insulation debris (Assumed based on pipe insulation in area) | 0 ln. ft. | 2 | Pipe insulation debris above hard ceiling (debris actually in Room 201). | Remove debris, clean surfaces, and repair damaged insulation OR remove/replace insulation | |
| 111 | Building 111 | 203 | T03.05 | Straight pipe insulation debris (Assumed based on pipe insulation in area) | 0 ln. ft. | 2 | Pipe insulation debris above hard ceiling (debris actually in Room 201). | Remove debris, clean surfaces, and repair damaged insulation OR remove/replace insulation | |
| 111 | Building 111 | Exterior2 | M10.02 | Window caulking (exterior) | 210 ln. ft. | 2 | Mezzanine Room 201, 202A, and 203. | Remove debris, clean surfaces, and repair damaged caulking OR remove/replace caulking. | $400 to $2200 |

(1) Material Codes: T - Thermal Systems Insulation; S - Surfacing Material (Sprayed or Troweled-on); M - Miscellaneous Material; F - Miscellaneous Material (Floor Covering)

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## ABBREVIATIONS AND DEFINITIONS

**Asbestos:** A group of naturally occurring minerals that separate into fibers. Asbestos fibers are incombustible, are chemically resistant, and are characterized by the properties of thermal and electrical insulation. There are six asbestos minerals used commercially: chrysotile, amosite, crocidolite, tremolite, anthophyllite, and actinolite. This includes any of these minerals that have been chemically treated and/or altered.

**Asbestos abatement:** Procedures to remove ACBM from buildings with the simultaneous control of the release of asbestos fibers. Additionally, this includes activities focused on the encapsulation, encasement, repair, and enclosure of ACBM.

**Asbestos Containing Building Material (ACBM):** Surfacing ACBM, TSI ACBM, or miscellaneous ACBM found in or on interior structural members or other parts of a building. This definition is used in the AHERA regulations for school buildings.

**Asbestos abatement contractor:** An Arizona-licensed asbestos removal company.

**Asbestos-Containing Materials (ACM):** The US EPA and OSHA define this as a material containing more than 1% by weight of the regulated asbestos minerals.

**Asbestos Coordinator:** The designated VA Facilities Service employee is the single contact point for all ACBM issues on the VA campus.

**Asbestos Hazard Emergency Response Act (AHERA):** The federal Asbestos Hazard Emergency Response Act of 1986 and the Environmental Protection Agency implementing regulations, 40 CFR Part 763, Subpart E - Asbestos-Containing Materials in Schools. The passage of AHERA by Congress led to the promulgation by EPA of two additional regulations: the Asbestos School Hazard Abatement Reauthorization Act (ASHARA) and the Model Accreditation Plan (MAP), which outlines the requirements for accreditation of inspectors and personnel conducting asbestos activities in schools.

**Asbestos inspection:** Any activity undertaken to determine the presence or location, or to assess the condition, of asbestos-containing material or suspected asbestos-containing material, whether by visual or physical examination, or by taking samples of the material. This term includes reinspections of the type described in AHERA, 40 CFR 763.85(b), of known or assumed asbestos-containing material which has been previously identified.

**Asbestos project:** Any activity involving the removal, renovation, repair, demolition, salvage, disposal, cleanup, or other disturbance of regulated asbestos-containing material greater than small scale short duration.

**Demolition:** The wrecking, salvage, or removal of any load-supporting structural member of a structure together with any related handling operations, or the intentional burning of any structure. This includes the moving of an entire building.

**Disturb:** To disrupt the matrix of ACM or regulated asbestos-containing material, crumble, or pulverize ACM or regulated asbestos-containing material, or generate visible debris from ACM or regulated asbestos-containing material.

**Friable Asbestos-Containing Material:** Friable asbestos-containing material refers to materials which are capable of being crumbled, pulverized, or reduced to powder by hand pressure when dry. Friable asbestos-containing materials are usually found on overhead surfaces, including steel beams, pipes, and ceilings. This may also include previously non-friable material which becomes broken or damaged by mechanical force.

**Inaccessible:** Physically restricted or obstructed area or covered in such a way that detection or removal is prevented or severely hampered.

**Miscellaneous ACM:** Interior building material on structural components, structural members or fixtures, such as floor and ceiling tiles. This does not include surfacing material or TSI.

**Non-friable ACM:** Material of greater than 1 percent asbestos into which the fibers have been locked by a bonding agent, coating, binder, or other material in order to prevent the release of fibers during any appropriate use, handling, storage, transportation, or processing. Non-friable asbestos-containing materials are usually found in the form of roofing, flooring, and siding materials. When previously non-friable asbestos becomes damaged to the extent that when dry it may be crumbled, pulverized or reduced to a powder during the removal, renovation, or demolition process, it should now be categorized as friable material. This material is considered hazardous during removal and disposal procedures.

**Operations and Maintenance (O&M) Plan:** A plan of safe work practices and procedures intended to maintain ACBM in good condition and minimize asbestos exposure to building occupants and VA employees, while complying with federal, state, and local regulations.

**Presumed Asbestos-Containing Material (PACM):** Thermal system insulation and surfacing material found in buildings constructed no later than 1980. OSHA requires that building owners identify PACM in their buildings and treat the PACM as asbestos-containing materials (ACM) until the materials are proven not to contain asbestos. Although not defined strictly as PACM, both OSHA standards also require asphalt and vinyl flooring material installed no later than 1980 be "considered" and "treated" as asbestos-containing, until the building owner proves the flooring is not ACM. This includes not only the flooring material, but associated mastics and backings.

**Regulated Asbestos-Containing Material (RACM):** Friable asbestos material, Category I non-friable ACM that has become friable, Category I non-friable ACM (vinyl asbestos tile, roofing felts, gaskets and packing) that will be or has been subjected to sanding, grinding, cutting, or abrading, or Category II non-friable ACM (asbestos board, transite, and asbestos shingles) 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 regulated by this subpart.

**Surfacing material:** Material that is sprayed, troweled, or otherwise applied to surfaces (such as acoustical plaster on ceilings and fireproofing materials on structural members, or other materials on surfaces for acoustical, fireproofing, and other purposes).

**Thermal System Insulation (TSI):** Asbestos-containing material applied to pipes, fittings, boilers, breeching, tanks, ducts, or other interior structural components to prevent heat loss/gain or water condensation.

## 1.0 INTRODUCTION

In January 2011, IHI Environmental conducted an asbestos survey of Building 111 on the Bob Stump Veterans Affairs Medical CenterBob Stump Veterans Affairs Medical Center (VAMC) campus located at 500 North Highway 89 in Prescott, Arizona. Mr. Eric Towles was the Contract Officer Technical Representative for this project.

### 1.1 Scope of Work

The objective of this inspection was to determine the presence and condition of all ACBM and to recommend response actions for the materials identified. The scope of work for this inspection was outlined in solicitation VA-258-11-RP-0424.

To accomplish this survey, IHI identified all accessible areas in each building by name, functional space, and room number, and then collected bulk samples of each suspect material according to AHERA sampling protocols and protocols outlined in the VA solicitation. Tables 3 and 5 (Appendix A) identify the building, functional spaces, rooms, materials, quantities, condition, hazard rank, and any recommended response actions.

## 2.0 SURVEY PROCEDURES

The asbestos survey was performed using the inspection protocol developed for schools under Asbestos Hazard Emergency Response Act (AHERA). Some deviations in standard sampling protocol were required by the Statement of Work.

### 2.1 Building Inspection

The building inspections were conducted by EPA-accredited inspectors. Inspections consisted of a detailed visual inspection and assessment of the condition and potential for disturbance of suspect ACBM. The specific components of the inspection and assessment included:

- Room-by-room identification and inspection of materials. Summaries of the suspect materials identified in each building are presented in the Data Tables included in Appendix A.
- An assessment of suspect, known, or assumed ACBM.
- Identification of suspect ACBMs, by material type, with a unique identifier. The material types are thermal system insulation (TSI), surfacing materials, and miscellaneous materials.

IHI uses a standardized numbering system to identify homogeneous materials during the survey. Letters T, F, S, or M designate material types as follows:

- Thermal System Insulation (pipe insulation, fittings, etc.): T01 - T10 (example: T02.2 Hard Pipe Insulation)
- Floor Covering (floor tile, sheet vinyl, mastics and adhesives, floor leveling compounds, cove base, etc.): F01 - F07 (example: F04.4: 9”x9” Floor Tile – Gray)
- Surfacing Materials (texturing and fire-proofing): S01 - S02
- Miscellaneous Materials (roofing, sink undercoating, gypsum board, roofing, etc.): M01 – M17 (example: M10.1: Gray Window Caulk)

## 2.2 Bulk Sampling

Inspectors collected bulk samples of suspect ACBM and submitted the samples to an accredited laboratory for analysis. Bulk sample numbers are included in **Table 4** (Appendix A: Bulk Sample Log**)**.

- IHI conducted its sampling in a manner that minimized damage to the building, did not leave unsightly marks, and did not create a health hazard for the inspector or building occupants.
- The number of samples collected from each homogeneous area was based on AHERA rules as modified by the requirements from the Statement of Work.
- Friable surfacing materials were sampled using the random sampling scheme given in the EPA publication 560/5-85-030a, titled, “*Asbestos in Buildings: Simplified Sampling Scheme for Friable Surfacing Materials*.”
- Unique sample numbers were assigned to each sample collected during the inspection. These numbers were entered on the chain-of-custody forms that accompanied the bulk samples to the analytical laboratory.
- Locations of bulk samples and confirmed ACM are identified on the **Building Floor Plans** (Appendix B).

## 2.3 Bulk Sample Analysis

Bulk samples were analyzed using polarized light microscopy (PLM) and visual estimation according to the EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples, EPA-600/M4-82-020. The quantification of asbestos in a sample is intended to be an estimate only, and the limit of detection for this method is approximately 1% by weight, based on visual estimation.

Samples were analyzed by EMLab P&K offices in San Diego and San Bruno, California, and Phoenix, Arizona. EMLab P&K is accredited under the National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program (NIST-NVLAP) for bulk asbestos sample analysis, and is also accredited by the American Industrial Hygiene Association (AIHA).

EPA's National Emissions Standards for Hazardous Air Pollutants (NESHAP) and AHERA regulations define ACM as material containing greater than 1% asbestos by weight; materials containing 1% or less asbestos are not considered regulated ACM by the EPA. Further, the NESHAP regulations state that any sample of friable material found to contain less than 10% asbestos but greater than "none detected," by the visual estimation method used during PLM analysis, must be assumed to contain greater than 1% asbestos unless confirmed by NESHAP point counting analysis. The Statement of Work (SOW) for this project required that all materials sampled and determined to contain less than 3% asbestos shall be point counted. The SOW further stipulated that non-friable organically bound materials such as vinyl floor tile, mastic, and roofing materials, containing less than 1% asbestos, shall be confirmed by transmission electron microscopy (TEM).

The laboratory reports are included in Appendix C.

## 3.0 SURVEY FINDINGS

### 3.1 ACBM

All ACBM is identified in **Tables 1 and 5** (Appendix A). These tables describe the type of material, visual appearance, condition, friability, potential for disturbance, and identify any materials that require immediate actions. Locations of these materials are shown on the **Building Floor Plans** (Appendix B).

### 3.2 Non-ACBM

Suspect materials are identified as non-ACBM if the material contains no detectable asbestos. **Tables 2 and 3** (Appendix A) identify the non-ACBM materials.

### 3.3 Damage and Hazard Assessment

Each ACBM was assessed for damage, accessibility, and the potential for future damage. This information is presented in **Table 3** in Appendix A.

### 3.3.1 Hazard Rank Codes

Hazard Rank Codes were determined by assessing the material condition, accessibility, and potential for future disturbance. ACBM materials, including those that contain less than 1% but greater than none detected, were assigned a Hazard Rank Code 1, 2, 3 or 4. A Hazard Rank Code of 1 requires some immediate response action. Materials assigned a Hazard Rank Code 4 do not pose a significant risk and do not require immediate response. The Executive Summary Table outlines the recommended response actions that accompany Hazard Rank Codes 1 through 3.

- **Hazard Rank Code 1 Materials** – These materials are damaged or significantly damaged ACBM with a high fiber release potential. These materials require immediate isolation, removal, repair, encapsulation and/or enclosure by an Arizona-licensed asbestos abatement contractor.
- **Hazard Rank Code 2 Materials** – These materials are damaged or significantly damaged ACBM with a low to moderate fiber release potential. These materials require removal, repair, encapsulation and/or enclosure by an Arizona-licensed asbestos abatement contractor.
- **Hazard Rank Code 3 Materials** – These materials are intact (in good condition) but present a high potential for disturbance. These materials may be removed, enclosed, and/or labeled, or they may be managed in place in the Operations and Maintenance Plan. IHI recommends that any intentional contact with ACBM be performed by an Arizona-licensed asbestos abatement contractor.
- **Hazard Rank Code 4 Materials** – These materials are intact (in good condition), present a low to moderate potential for disturbance and can be managed under the Operations and Maintenance Plan. They should be inspected periodically, however, to ensure they do not deteriorate.

## 3.4 Special Considerations

Materials with peculiar configurations and materials assumed to be asbestos-containing are identified in **Table 3** (Appendix A).

### 3.4.1 Roofing Materials

Roofing materials were sampled in accordance with the Summary of Work and when it was clear that such sampling would not compromise the integrity of the roof.

The roofing materials on this building were included in this survey.

### 3.5 Inaccessible Areas

Some building structures may have been constructed after the application of ACBM and, therefore, may have obscured these materials from visual examination during this inspection. Typical scenarios include thermal system insulation inside hardened mechanical chases, floor tile and mastic under walls, and sprayed-on texturing and/or fireproofing behind structural supports or architectural features. Suspect materials that were hidden or inaccessible may not have been characterized by this inspection. Therefore, any material not identified in this report as having been tested should be treated as suspect ACBM until it has been properly sampled.

## 4.0 APPLICABLE RULES AND REGULATIONS

In Arizona, EPA asbestos regulations are administered by the State of Arizona, Department of Environmental Quality, Air Quality Compliance Section (Asbestos NESHAP Program). The Arizona Division of Occupational Safety and Health (ADOSH) has adopted the Federal OSHA regulations.

### 4.1 Renovation and Demolition (EPA and OSHA)

NESHAP regulations require the removal of friable ACBM and non-friable ACBM that could become friable during demolition activities. Despite EPA rules exempting building materials containing 1% or less asbestos from stringent regulation, OSHA regulations outline specific precautionary work practices when employees work with materials containing any detectable amount of asbestos. Compliance by building owners with the OSHA asbestos regulations may result in response actions not required by the EPA for certain unregulated materials.

## 5.0 COST ESTIMATES FOR REMOVAL

The estimated cost to remove all of the ACBM from this building is $74,800. This estimate assumes that all of the materials will be removed during a single planned abatement project. A list of the costs associated with each of the various homogeneous materials identified during this survey is included in **Table 6** (Appendix A).

These cost estimates are provided for the use of long-term budgeting and planning only and do not have a level of accuracy sufficient to be used as construction design cost estimates.

The actual cost of asbestos removal is highly dependent on the size of the project or quantity of materials removed in a single abatement project. The unit costs associated with small-scale emergency projects will typically be significantly greater than the costs associated with larger, planned projects. The removal costs shown in the Material Removal Unit Cost table attempt to capture the range of costs associated with a variety of removal scenarios.

Material replacement and consultant abatement management costs are not included in these estimates.

## 6.0 PROJECT LIMITATIONS

This project was performed using, as a minimum, practices consistent with standards acceptable within the industry at this time, and a level of diligence typically exercised by EH&S consultants performing similar services.

The procedures used attempt to establish a balance between the competing goals of limiting investigative and reporting costs and time, and reducing the uncertainty about unknown conditions. Therefore, because the findings of this report were derived from the scope, costs, time and other limitations, the conclusions should not be construed as a guarantee that all universal, toxic and/or hazardous wastes have been identified and fully evaluated. Furthermore, IHI assumes no responsibility for omissions or errors resulting from inaccurate information, or data, provided by sources outside of IHI or from omissions or errors in public records.

It is emphasized that the final decision on how much risk to accept always remains with the client since IHI is not in a position to fully understand all of the client's needs. Clients with a greater aversion to risk may want to take additional actions while others, with less aversion to risk, may want to take no further action.

# Appendix A

## Summary Tables

# Table 1

Summary of Asbestos-containing Building Materials
Building No.: 111 (Building 111)

| Homogeneous Material Description[1] | | Quantity | ACM Designation[2] |
|---|---|---|---|
| F03.01 | Floor tile (12" x 12") and adhesive | 820 sq. ft. | >1% Asbestos |
| M01.02 | Roof sealant | 15 ln. ft. | >1% Asbestos |
| M10.02 | Window caulking (exterior) | 710 ln. ft. | >1% Asbestos |
| M19.01 | Ceramic tile adhesive (Assumed) | 10 sq. ft. | >1% Asbestos |
| M20.01 | Ceramic tile grout (Assumed) | 10 sq. ft. | >1% Asbestos |
| T02.01 | Pipe fitting insulation (>12" O.D) | 115 each | >1% Asbestos |
| T02.02 | Pipe fitting insulation (>6" O.D) | 220 each | >1% Asbestos |
| T02.03 | Pipe fitting insulation (<6" O.D) | 198 each | >1% Asbestos |
| T03.01 | Straight pipe insulation (>12" O.D) | 595 ln. ft. | >1% Asbestos |
| T03.02 | Straight pipe insulation (>6" O.D) (Wrap/Paint 15% Chrysotile) | 1275 ln. ft. | >1% Asbestos |
| T03.03 | Straight pipe insulation (<6" O.D) | 1000 ln. ft. | >1% Asbestos |
| T03.05 | Straight pipe insulation debris (Assumed based on pipe insulation in area) | 50 ln. ft. | >1% Asbestos |
| T05.01 | Tank insulation (condensate) | 515 sq. ft. | >1% Asbestos |

# Table 1

## Summary of Asbestos-containing Building Materials

## Building No.: 111 (Building 111)

| Homogeneous Material Description[1] | Quantity | ACM Designation[2] |
|---|---|---|
| T10.01 Boiler stack insulation | 2260 sq. ft. | >1% Asbestos |

(1) Material Codes: T - Thermal Systems Insulation; S - Surfacing Material (Sprayed or Troweled-on); M - Miscellaneous Material; F - Miscellaneous Material (Floor Covering)
(2) ACM Designation: >1% Asbestos - Asbestos-containing materials that contain greater than 1% asbestos and are regulated under EPA and State air quality regulations, and have requirements for worker protection under OSHA. <=1% Asbestos - Asbestos-containing materials that contain less than or equal to 1% asbestos and are NOT regulated under EPA or State air quality regulations, but have requirements for worker protection under OSHA.

# Table 2

Summary of Non-Asbestos-containing Building Materials
Building No.: 111 (Building 111)

| Homogeneous Material Description[1] | | Quantity | ACM Designation[2] |
|---|---|---|---|
| M01.01 | Flat asphalt rolled roofing (core) | 4630 sq. ft. | None Detected |
| M05.01 | Plaster ceiling | 270 sq. ft. | None Detected |
| M09.01 | Ceiling tile (12 " x 12") and adhesive | 400 sq. ft. | None Detected |
| M10.01 | Plaster caulking (ceiling) | 54 ln. ft. | None Detected |
| M10.03 | Downspout caulking (downspout basin) | 20 ln. ft. | None Detected |
| M10.04 | Caulking (window glazing-interior) | 2020 ln. ft. | None Detected |
| M11.01 | Fire door insulation | 11 each | None Detected |
| M15.01 | Sink undercoat | 1 each | None Detected |
| M16.01 | Cove base and adhesive | 100 ln. ft. | None Detected |
| M16.02 | Mortar (Mezzanine brick-12" x 12") | 765 sq. ft. | None Detected |
| M16.03 | Concrete floor | 9975 sq. ft. | None Detected |
| M16.04 | Concrete foundation | 3470 sq. ft. | None Detected |
| M16.05 | Mortar (Red brick-12"x4") | 23460 sq. ft. | None Detected |

# Table 2

## Summary of Non-Asbestos-containing Building Materials
## Building No.: 111 (Building 111)

| Homogeneous Material Description[1] | | Quantity | ACM Designation[2] |
|---|---|---|---|
| NSM.01 | Metal stairs (No Suspect Materials) | 0 sq. ft. | None Detected |
| T03.04 | Straight pipe insulation (cardboard) | 5 ln. ft. | None Detected |
| T05.02 | Tank insulation (deaerator) | 740 sq. ft. | None Detected |
| T05.03 | Tank insulation (flash) | 100 sq. ft. | None Detected |

(1) Material Codes: T - Thermal Systems Insulation; S - Surfacing Material (Sprayed or Troweled-on); M - Miscellaneous Material; F - Miscellaneous Material (Floor Covering)
(2) ACM Designation: None Detected - No asbestos was detected and therefore the material is not regulated under EPA, State air quality regulations, or OSHA (for asbestos concerns).

# Table 3

## Room-by-Room Inspection and Assessment Findings

## Building No.: 111 (Building 111)

### Room #: 001 (Vacuum Pumps)

| Homogeneous Material (1) | Analytical Result (2) | Type of Asbestos | Analytical Method (3) | ACM? (4) | Friability Category (5) | Condition (6) | Accessibility (7) | Disturbance Potential (8) | Clean/Repair Needed? | Labeling Needed? (9) | Hazard Rank (10) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| T02.02 (Pipe fitting insulation (>6" O.D)) | ND | None Detected | PLM | >1% Asbestos | Friable | Good | Periodically | Low | No | Yes | 4 |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 40 each | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| T02.03 (Pipe fitting insulation (<6" O.D)) | ND | None Detected | PLM | >1% Asbestos | Friable | Good | Periodically | Low | No | Yes | 4 |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 60 each | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| T02.03 (Pipe fitting insulation (<6" O.D)) | ND | None Detected | PLM | >1% Asbestos | Friable | Good | Periodically | Low | No | Yes | 4 |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 60 each | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| T02.01 (Pipe fitting insulation (>12" O.D)) | Insulation | None Detected | PLM | >1% Asbestos | Friable | Good | Periodically | Low | No | Yes | 4 |
| | Wrap/Paint 15% | Chrysotile | PLM | | | | | | | | |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 25 each | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| T03.03 (Straight pipe insulation (<6" O.D)) | 60% | Chrysotile | PLM | >1% Asbestos | Friable | Good | Periodically | Moderate | No | Yes | 4 |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 195 ln. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |

# Table 3

## Room-by-Room Inspection and Assessment Findings

## Building No.: 111 (Building 111)

### Room #: 001 (Vacuum Pumps)

| Homogeneous Material (1) | Analytical Result (2) | Type of Asbestos | Analytical Method (3) | ACM? (4) | Friability Category (5) | Condition (6) | Accessibility (7) | Disturbance Potential (8) | Clean/Repair Needed? | Labeling Needed? (9) | Hazard Rank (10) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| T03.03 (Straight pipe insulation (<6" O.D)) | Insulation | None Detected | PLM | >1% Asbestos | Friable | Good | Periodically | Moderate | No | Yes | 4 |
| | Wrap/Paint 15% | Chrysotile | PLM | | | | | | | | |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 195 ln. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M16.03 (Concrete floor) | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | | | | | | |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 500 sq. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M16.04 (Concrete foundation) | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | | | | | | |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 930 sq. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| T03.02 (Straight pipe insulation (>6" O.D) (Wrap/Paint 15% Chrysotile)) | | | | >1% Asbestos | Friable | Good | Periodically | Moderate | No | Present | 4 |
| | | | | | | | | | | | |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 145 ln. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| T03.01 (Straight pipe insulation (>12" O.D)) | | | | >1% Asbestos | Friable | Good | Periodically | Moderate | No | Present | 4 |
| | | | | | | | | | | | |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 110 ln. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |

# Table 3

## Room-by-Room Inspection and Assessment Findings

## Building No.: 111 (Building 111)

### Room #: 101 (Boiler Room)

| Homogeneous Material (1) | Analytical Result (2) | Type of Asbestos | Analytical Method (3) | ACM? (4) | Friability Category (5) | Condition (6) | Accessibility (7) | Disturbance Potential (8) | Clean/Repair Needed? | Labeling Needed? (9) | Hazard Rank (10) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| T03.03 (Straight pipe insulation (<6" O.D)) | | | | >1% Asbestos | Friable | Good | Rarely | Low | No | Yes | 4 |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 685 ln. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| T05.02 (Tank insulation (deaerator)) | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 740 sq. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| T05.02 (Tank insulation (deaerator)) | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 740 sq. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| T05.01 (Tank insulation (condensate)) | Gray Insul 35% | Chrysotile | PLM | >1% Asbestos | Friable | Good | Rarely | Low | No | Yes | 4 |
| | Wrap/Paint | None Detected | PLM | | | | | | | | |
| | White Insul | None Detected | PLM | Hazard Assessment Comments: | | | | | | | |
| Quantity: 515 sq. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| T05.01 (Tank insulation (condensate)) | Insulation 65% | Chrysotile | PLM | >1% Asbestos | Friable | Good | Rarely | Low | No | Yes | 4 |
| | Wrap/Paint | None Detected | PLM | | | | | | | | |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 515 sq. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |

# Table 3

## Room-by-Room Inspection and Assessment Findings

## Building No.: 111 (Building 111)

### Room #: 101 (Boiler Room)

| Homogeneous Material (1) | Analytical Result (2) | Type of Asbestos | Analytical Method (3) | ACM? (4) | Friability Category (5) | Condition (6) | Accessibility (7) | Disturbance Potential (8) | Clean/Repair Needed? | Labeling Needed? (9) | Hazard Rank (10) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| T05.01 (Tank insulation (condensate)) | Insulation 65% | Chrysotile | PLM | >1% Asbestos | Friable | Good | Rarely | Low | No | Yes | 4 |
| | Wrap/Paint | None Detected | PLM | | | | | | | | |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 515 sq. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| T10.01 (Boiler stack insulation) | Insulation 20% | Chrysotile | PLM | >1% Asbestos | Friable | Good | Rarely | Low | No | Yes | 4 |
| | Wrap | None Detected | PLM | | | | | | | | |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 2260 sq. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| T10.01 (Boiler stack insulation) | Gray Insul 20% | Chrysotile | PLM | >1% Asbestos | Friable | Good | Rarely | Low | No | Yes | 4 |
| | White Insul | None Detected | PLM | | | | | | | | |
| | Wrap | None Detected | PLM | Hazard Assessment Comments: | | | | | | | |
| Quantity: 2260 sq. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| T02.02 (Pipe fitting insulation (>6" O.D)) | Insulation | None Detected | PLM | >1% Asbestos | Friable | Good | Rarely | Low | No | Yes | 4 |
| | Wrap/Paint 15% | Chrysotile | PLM | | | | | | | | |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 170 each | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M16.03 (Concrete floor) | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | | | | | | |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 4700 sq. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |

# Table 3

## Room-by-Room Inspection and Assessment Findings

## Building No.: 111 (Building 111)

### Room #: 101 (Boiler Room)

| Homogeneous Material (1) | Analytical Result (2) | Type of Asbestos | Analytical Method (3) | ACM? (4) | Friability Category (5) | Condition (6) | Accessibility (7) | Disturbance Potential (8) | Clean/Repair Needed? | Labeling Needed? (9) | Hazard Rank (10) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| T02.01 (Pipe fitting insulation (>12" O.D)) | Insulation 50% | Chrysotile | PLM | >1% Asbestos | Friable | Good | Rarely | Low | No | Yes | 4 |
| | Wrap 15% | Chrysotile | PLM | | | | | | | | |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 65 each | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M16.04 (Concrete foundation) | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | | | | | | |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 980 sq. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| T05.02 (Tank insulation (deaerator)) | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | | | | | | |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 740 sq. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| T03.01 (Straight pipe insulation (>12" O.D)) | 60% | Chrysotile | PLM | >1% Asbestos | Friable | Good | Periodically | Moderate | No | Yes | 4 |
| | | | | | | | | | | | |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 280 ln. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| T10.01 (Boiler stack insulation) | Insulation 20% | Chrysotile | PLM | >1% Asbestos | Friable | Good | Rarely | Low | No | Yes | 4 |
| | Wrap | None Detected | PLM | | | | | | | | |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 2260 sq. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |

# Table 3

## Room-by-Room Inspection and Assessment Findings

## Building No.: 111 (Building 111)

### Room #: 101 (Boiler Room)

| Homogeneous Material (1) | Analytical Result (2) | Type of Asbestos | Analytical Method (3) | ACM? (4) | Friability Category (5) | Condition (6) | Accessibility (7) | Disturbance Potential (8) | Clean/Repair Needed? | Labeling Needed? (9) | Hazard Rank (10) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| T03.02 (Straight pipe insulation (>6" O.D) (Wrap/Paint 15% Chrysotile)) | ND | None Detected | PLM | >1% Asbestos | Friable | Good | Periodically | Moderate | No | Yes | 4 |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 1010 ln. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| T03.02 (Straight pipe insulation (>6" O.D) (Wrap/Paint 15% Chrysotile)) | Insulation | None Detected | PLM | >1% Asbestos | Friable | Good | Periodically | Moderate | No | Yes | 4 |
| | Wrap/Paint 15% | Chrysotile | PLM | | | | | | | | |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 1010 ln. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M16.05 (Mortar (Red brick-12"x4")) | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 9000 sq. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| T02.02 (Pipe fitting insulation (>6" O.D)) | Insulation | None Detected | PLM | >1% Asbestos | Friable | Good | Rarely | Low | No | Yes | 4 |
| | Wrap/Paint 15% | Chrysotile | PLM | | | | | | | | |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 170 each | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| T02.03 (Pipe fitting insulation (<6" O.D)) | 50% | Chrysotile | PLM | >1% Asbestos | Friable | Good | Rarely | Low | No | Yes | 4 |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 105 each | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |

# Table 3

## Room-by-Room Inspection and Assessment Findings

## Building No.: 111 (Building 111)

### Room #: 101 (Boiler Room)

| Homogeneous Material (1) | Analytical Result (2) | Type of Asbestos | Analytical Method (3) | ACM? (4) | Friability Category (5) | Condition (6) | Accessibility (7) | Disturbance Potential (8) | Clean/Repair Needed? | Labeling Needed? (9) | Hazard Rank (10) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| T05.03 (Tank insulation (flash)) | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 100 sq. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| T05.03 (Tank insulation (flash)) | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 100 sq. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M11.01 (Fire door insulation) | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 7 each | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M10.04 (Caulking (window glazing-interior)) | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 1360 ln. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M10.04 (Caulking (window glazing-interior)) | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 1360 ln. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |

# Table 3

## Room-by-Room Inspection and Assessment Findings

## Building No.: 111 (Building 111)

### Room #: 101 (Boiler Room)

| Homogeneous Material (1) | Analytical Result (2) | Type of Asbestos | Analytical Method (3) | ACM? (4) | Friability Category (5) | Condition (6) | Accessibility (7) | Disturbance Potential (8) | Clean/Repair Needed? | Labeling Needed? (9) | Hazard Rank (10) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| T05.03 (Tank insulation (flash)) | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 100 sq. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |

### Room #: 102 (Control Center])

| Homogeneous Material (1) | Analytical Result (2) | Type of Asbestos | Analytical Method (3) | ACM? (4) | Friability Category (5) | Condition (6) | Accessibility (7) | Disturbance Potential (8) | Clean/Repair Needed? | Labeling Needed? (9) | Hazard Rank (10) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| T03.04 (Straight pipe insulation (cardboard)) | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 5 ln. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M16.03 (Concrete floor) | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 1535 sq. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| T02.03 (Pipe fitting insulation (<6" O.D)) | | | | >1% Asbestos | Friable | Good | Rarely | Low | No | Yes | 4 |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 25 each | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |

# Table 3

## Room-by-Room Inspection and Assessment Findings

## Building No.: 111 (Building 111)

### Room #: 102 (Control Center])

| Homogeneous Material (1) | Analytical Result (2) | Type of Asbestos | Analytical Method (3) | ACM? (4) | Friability Category (5) | Condition (6) | Accessibility (7) | Disturbance Potential (8) | Clean/Repair Needed? | Labeling Needed? (9) | Hazard Rank (10) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| M10.04 (Caulking (window glazing-interior)) | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 425 ln. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M15.01 (Sink undercoat) | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 1 each | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M16.04 (Concrete foundation) | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 450 sq. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M16.05 (Mortar (Red brick-12"x4")) | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 840 sq. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M11.01 (Fire door insulation) | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 1 each | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |

# Table 3

## Room-by-Room Inspection and Assessment Findings

## Building No.: 111 (Building 111)

### Room #: 103 (Storage)

| Homogeneous Material (1) | Analytical Result (2) | Type of Asbestos | Analytical Method (3) | ACM? (4) | Friability Category (5) | Condition (6) | Accessibility (7) | Disturbance Potential (8) | Clean/Repair Needed? | Labeling Needed? (9) | Hazard Rank (10) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| M16.04 (Concrete foundation) | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 160 sq. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M16.05 (Mortar (Red brick-12"x4")) | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 340 sq. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M16.03 (Concrete floor) | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 360 sq. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M11.01 (Fire door insulation) | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 1 each | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |

# Table 3

## Room-by-Room Inspection and Assessment Findings

## Building No.: 111 (Building 111)

### Room #: 104 (Generator Room)

| Homogeneous Material (1) | Analytical Result (2) | Type of Asbestos | Analytical Method (3) | ACM? (4) | Friability Category (5) | Condition (6) | Accessibility (7) | Disturbance Potential (8) | Clean/Repair Needed? | Labeling Needed? (9) | Hazard Rank (10) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| M11.01 (Fire door insulation) | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 2 each | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M16.05 (Mortar (Red brick-12"x4")) | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 420 sq. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M16.04 (Concrete foundation) | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 210 sq. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M16.03 (Concrete floor) | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 640 sq. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |

# Table 3

## Room-by-Room Inspection and Assessment Findings

## Building No.: 111 (Building 111)

### Room #: 201 (Parts Storage)

| Homogeneous Material (1) | Analytical Result (2) | Type of Asbestos | Analytical Method (3) | ACM? (4) | Friability Category (5) | Condition (6) | Accessibility (7) | Disturbance Potential (8) | Clean/Repair Needed? | Labeling Needed? (9) | Hazard Rank (10) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| M16.02 (Mortar (Mezzanine brick-12" x 12")) | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Quantity: 215 sq. ft. | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| F03.01 (Floor tile (12" x 12") and adhesive) | ND | None Detected | PLM | >1% Asbestos | Category 1 Non-friable | Good | Continuously | Moderate | No | No | 4 |
| Quantity: 550 sq. ft. | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| F03.01 (Floor tile (12" x 12") and adhesive) | ND | None Detected | PLM | >1% Asbestos | Category 1 Non-friable | Good | Continuously | Moderate | No | No | 4 |
| Quantity: 550 sq. ft. | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M16.05 (Mortar (Red brick-12"x4")) | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Quantity: 1220 sq. ft. | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M10.04 (Caulking (window glazing-interior)) | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Quantity: 85 ln. ft. | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | |

# Table 3

## Room-by-Room Inspection and Assessment Findings

## Building No.: 111 (Building 111)

### Room #: 201 (Parts Storage)

| Homogeneous Material (1) | Analytical Result (2) | Type of Asbestos | Analytical Method (3) | ACM? (4) | Friability Category (5) | Condition (6) | Accessibility (7) | Disturbance Potential (8) | Clean/Repair Needed? | Labeling Needed? (9) | Hazard Rank (10) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| M16.02 (Mortar (Mezzanine brick-12" x 12")) | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Quantity: 215 sq. ft. | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M16.03 (Concrete floor) | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Quantity: 1100 sq. ft. | | | | Hazard Assessment Comments: Concrete on floor and ceiling deck. | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| T03.05 (Straight pipe insulation debris (Assumed based on pipe insulation in area)) | | | | >1% Asbestos | Friable | Significantly Damaged | Rarely | Low | Yes | Present | 2 |
| Quantity: 50 ln. ft. | | | | Hazard Assessment Comments: Pipe insulation debris above Rooms 202, 202A and 203. | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| T02.03 (Pipe fitting insulation (<6" O.D)) | | | | >1% Asbestos | Friable | Good | Rarely | Low | No | Present | 4 |
| Quantity: 8 each | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| T03.03 (Straight pipe insulation (<6" O.D)) | | | | >1% Asbestos | Friable | Good | Rarely | Low | No | Yes | 4 |
| Quantity: 75 ln. ft. | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | |

# Table 3

## Room-by-Room Inspection and Assessment Findings

## Building No.: 111 (Building 111)

### Room #: 202 (Locker Room)

| Homogeneous Material (1) | Analytical Result (2) | Type of Asbestos | Analytical Method (3) | ACM? (4) | Friability Category (5) | Condition (6) | Accessibility (7) | Disturbance Potential (8) | Clean/Repair Needed? | Labeling Needed? (9) | Hazard Rank (10) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| M05.01 (Plaster ceiling) | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Quantity: 80 sq. ft. | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M16.05 (Mortar (Red brick-12"x4")) | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Quantity: 230 sq. ft. | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| T03.05 (Straight pipe insulation debris (Assumed based on pipe insulation in area)) | | | | >1% Asbestos | Friable | Significantly Damaged | Rarely | Low | Yes | Present | 2 |
| Quantity: 0 ln. ft. | | | | Hazard Assessment Comments: Pipe insulation debris above hard ceiling (debris actually in Room 201). | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M05.01 (Plaster ceiling) | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Quantity: 80 sq. ft. | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| F03.01 (Floor tile (12" x 12") and adhesive) | | | | >1% Asbestos | Category 1 Non-friable | Good | Continuously | Moderate | No | No | 4 |
| Quantity: 80 sq. ft. | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | |

# Table 3

## Room-by-Room Inspection and Assessment Findings

## Building No.: 111 (Building 111)

### Room #: 202 (Locker Room)

| Homogeneous Material (1) | Analytical Result (2) | Type of Asbestos | Analytical Method (3) | ACM? (4) | Friability Category (5) | Condition (6) | Accessibility (7) | Disturbance Potential (8) | Clean/Repair Needed? | Labeling Needed? (9) | Hazard Rank (10) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| M10.01 (Plaster caulking (ceiling)) | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Quantity: 28 ln. ft. | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M16.03 (Concrete floor) | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Quantity: 160 sq. ft. | | | | Hazard Assessment Comments: Concrete on floor and upper ceiling deck. | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M05.01 (Plaster ceiling) | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Quantity: 80 sq. ft. | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M16.01 (Cove base and adhesive) | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Quantity: 30 ln. ft. | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M16.02 (Mortar (Mezzanine brick-12" x 12")) | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Quantity: 200 sq. ft. | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | |

# Table 3

## Room-by-Room Inspection and Assessment Findings

## Building No.: 111 (Building 111)

### Room #: 202A (Restroom)

| Homogeneous Material (1) | Analytical Result (2) | Type of Asbestos | Analytical Method (3) | ACM? (4) | Friability Category (5) | Condition (6) | Accessibility (7) | Disturbance Potential (8) | Clean/Repair Needed? | Labeling Needed? (9) | Hazard Rank (10) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| M16.03 (Concrete floor) | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | Hazard Assessment Comments: Concrete on floor and upper ceiling deck. | | | | | | | |
| Quantity: 180 sq. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M05.01 (Plaster ceiling) | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 90 sq. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| F03.01 (Floor tile (12" x 12") and adhesive) | | | | >1% Asbestos | Category 1 Non-friable | Good | Continuously | Moderate | No | No | 4 |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 90 sq. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M10.04 (Caulking (window glazing-interior)) | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 100 ln. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M16.05 (Mortar (Red brick-12"x4")) | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 530 sq. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |

# Table 3

## Room-by-Room Inspection and Assessment Findings

## Building No.: 111 (Building 111)

### Room #: 202A (Restroom)

| Homogeneous Material (1) | Analytical Result (2) | Type of Asbestos | Analytical Method (3) | ACM? (4) | Friability Category (5) | Condition (6) | Accessibility (7) | Disturbance Potential (8) | Clean/Repair Needed? | Labeling Needed? (9) | Hazard Rank (10) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| M16.01 (Cove base and adhesive) | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 30 ln. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M10.01 (Plaster caulking (ceiling)) | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 26 ln. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M10.01 (Plaster caulking (ceiling)) | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 26 ln. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M19.01 (Ceramic tile adhesive (Assumed)) | | | | >1% Asbestos | Category 2 Non-friable | Good | Rarely | Low | No | No | 4 |
| | | | | Hazard Assessment Comments: Assumed. Could not sample without damaging on 1"x1" ceramic tiles. | | | | | | | |
| Quantity: 10 sq. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M20.01 (Ceramic tile grout (Assumed)) | | | | >1% Asbestos | Category 2 Non-friable | Good | Periodically | Low | No | No | 4 |
| | | | | Hazard Assessment Comments: Assumed. Could not sample without damaging on 1"x1" ceramic tiles. | | | | | | | |
| Quantity: 10 sq. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |

# Table 3

## Room-by-Room Inspection and Assessment Findings

## Building No.: 111 (Building 111)

### Room #: 202A (Restroom)

| Homogeneous Material (1) | Analytical Result (2) | Type of Asbestos | Analytical Method (3) | ACM? (4) | Friability Category (5) | Condition (6) | Accessibility (7) | Disturbance Potential (8) | Clean/Repair Needed? | Labeling Needed? (9) | Hazard Rank (10) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| M16.02 (Mortar (Mezzanine brick-12" x 12")) | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Quantity: 110 sq. ft. | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| T03.05 (Straight pipe insulation debris (Assumed based on pipe insulation in area)) | | | | >1% Asbestos | Friable | Significantly Damaged | Rarely | Low | Yes | Present | 2 |
| Quantity: 0 ln. ft. | | | | Hazard Assessment Comments: Pipe insulation debris above hard ceiling (debris actually in Room 201). | | | | | | | |
| Sample Comments: | | | | | | | | | | | |

### Room #: 203 (Office)

| Homogeneous Material (1) | Analytical Result (2) | Type of Asbestos | Analytical Method (3) | ACM? (4) | Friability Category (5) | Condition (6) | Accessibility (7) | Disturbance Potential (8) | Clean/Repair Needed? | Labeling Needed? (9) | Hazard Rank (10) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| M10.04 (Caulking (window glazing-interior)) | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Quantity: 50 ln. ft. | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M16.05 (Mortar (Red brick-12"x4")) | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Quantity: 280 sq. ft. | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | |

# Table 3

## Room-by-Room Inspection and Assessment Findings

## Building No.: 111 (Building 111)

### Room #: 203 (Office)

| Homogeneous Material (1) | Analytical Result (2) | Type of Asbestos | Analytical Method (3) | ACM? (4) | Friability Category (5) | Condition (6) | Accessibility (7) | Disturbance Potential (8) | Clean/Repair Needed? | Labeling Needed? (9) | Hazard Rank (10) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| M09.01 (Ceiling tile (12 " x 12") and adhesive) | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | ND | None Detected | TEM | | | | | | | | |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 400 sq. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M09.01 (Ceiling tile (12 " x 12") and adhesive) | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | | | | | | |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 400 sq. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M16.03 (Concrete floor) | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | | | | | | |
| | | | | Hazard Assessment Comments: Concrete on floor and upper ceiling deck. | | | | | | | |
| Quantity: 200 sq. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| T03.05 (Straight pipe insulation debris (Assumed based on pipe insulation in area)) | | | | >1% Asbestos | Friable | Significantly Damaged | Rarely | Low | Yes | Present | 2 |
| | | | | | | | | | | | |
| | | | | Hazard Assessment Comments: Pipe insulation debris above hard ceiling (debris actually in Room 201). | | | | | | | |
| Quantity: 0 ln. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M09.01 (Ceiling tile (12 " x 12") and adhesive) | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | | | | | | |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 400 sq. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |

# Table 3

## Room-by-Room Inspection and Assessment Findings

## Building No.: 111 (Building 111)

### Room #: 203 (Office)

| Homogeneous Material (1) | Analytical Result (2) | Type of Asbestos | Analytical Method (3) | ACM? (4) | Friability Category (5) | Condition (6) | Accessibility (7) | Disturbance Potential (8) | Clean/Repair Needed? | Labeling Needed? (9) | Hazard Rank (10) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| M16.02 (Mortar (Mezzanine brick-12" x 12")) | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 240 sq. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M05.01 (Plaster ceiling) | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 100 sq. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M16.01 (Cove base and adhesive) | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | ND | None Detected | TEM | | | | | | | | |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 40 ln. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| F03.01 (Floor tile (12" x 12") and adhesive) | ND | None Detected | PLM | >1% Asbestos | Category 1 Non-friable | Good | Continuously | Moderate | No | No | 4 |
| | 16.267% | Chrysotile | TEM | | | | | | | | |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 100 sq. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |

# Table 3

## Room-by-Room Inspection and Assessment Findings

## Building No.: 111 (Building 111)

### Room #: Exterior1 (Exterior)

| Homogeneous Material (1) | Analytical Result (2) | Type of Asbestos | Analytical Method (3) | ACM? (4) | Friability Category (5) | Condition (6) | Accessibility (7) | Disturbance Potential (8) | Clean/Repair Needed? | Labeling Needed? (9) | Hazard Rank (10) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| M16.04 (Concrete foundation) | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 150 sq. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M10.03 (Downspout caulking (downspout basin)) | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 20 ln. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M16.05 (Mortar (Red brick-12"x4")) | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 10600 sq. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M10.03 (Downspout caulking (downspout basin)) | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 20 ln. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M10.03 (Downspout caulking (downspout basin)) | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 20 ln. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |

# Table 3

## Room-by-Room Inspection and Assessment Findings

## Building No.: 111 (Building 111)

### Room #: Exterior1 (Exterior)

| Homogeneous Material (1) | Analytical Result (2) | Type of Asbestos | Analytical Method (3) | ACM? (4) | Friability Category (5) | Condition (6) | Accessibility (7) | Disturbance Potential (8) | Clean/Repair Needed? | Labeling Needed? (9) | Hazard Rank (10) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| M10.02 (Window caulking (exterior)) | 4% | Chrysotile | PLM | >1% Asbestos | Category 2 Non-friable | Good | Rarely | Low | No | No | 4 |
| | | | | Hazard Assessment Comments: Exterior window caulking. | | | | | | | |
| Quantity: 500 ln. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M10.02 (Window caulking (exterior)) | 4% | Chrysotile | PLM | >1% Asbestos | Category 2 Non-friable | Good | Rarely | Low | No | No | 4 |
| | | | | Hazard Assessment Comments: Exterior window caulking. | | | | | | | |
| Quantity: 500 ln. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M10.02 (Window caulking (exterior)) | ND | None Detected | PLM | >1% Asbestos | Category 2 Non-friable | Good | Rarely | Low | No | No | 4 |
| | | | | Hazard Assessment Comments: Exterior window caulking. | | | | | | | |
| Quantity: 500 ln. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |

### Room #: Exterior2 (Mezzanine)

| Homogeneous Material (1) | Analytical Result (2) | Type of Asbestos | Analytical Method (3) | ACM? (4) | Friability Category (5) | Condition (6) | Accessibility (7) | Disturbance Potential (8) | Clean/Repair Needed? | Labeling Needed? (9) | Hazard Rank (10) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| M10.02 (Window caulking (exterior)) | | | | >1% Asbestos | Category 2 Non-friable | Damaged | Rarely | Moderate | Yes | No | 2 |
| | | | | Hazard Assessment Comments: Mezzanine Room 201, 202A, and 203. | | | | | | | |
| Quantity: 210 ln. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |

# Table 3

## Room-by-Room Inspection and Assessment Findings

## Building No.: 111 (Building 111)

### Room #: Roof (Roof)

| Homogeneous Material (1) | Analytical Result (2) | Type of Asbestos | Analytical Method (3) | ACM? (4) | Friability Category (5) | Condition (6) | Accessibility (7) | Disturbance Potential (8) | Clean/Repair Needed? | Labeling Needed? (9) | Hazard Rank (10) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| M01.01 (Flat asphalt rolled roofing (core)) | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | ND | None Detected | TEM | | | | | | | | |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 4630 sq. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M01.01 (Flat asphalt rolled roofing (core)) | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | | | | | | |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 4630 sq. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M01.01 (Flat asphalt rolled roofing (core)) | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | | | | | | |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 4630 sq. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M01.02 (Roof sealant) | ND | None Detected | PLM | >1% Asbestos | Category 1 Non-friable | Good | Rarely | Low | No | No | 4 |
| | 4.175% | Chrysotile | TEM | | | | | | | | |
| | | | | Hazard Assessment Comments: Around boiler flue or stack. | | | | | | | |
| Quantity: 15 ln. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M01.02 (Roof sealant) | ND | None Detected | PLM | >1% Asbestos | Category 1 Non-friable | Good | Rarely | Low | No | No | 4 |
| | | | | | | | | | | | |
| | | | | Hazard Assessment Comments: Around boiler flue or stack. | | | | | | | |
| Quantity: 15 ln. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |

# Table 3

Room-by-Room Inspection and Assessment Findings

Building No.: 111 (Building 111)

## Room #: Roof (Roof)

| Homogeneous Material (1) | Analytical Result (2) | Type of Asbestos | Analytical Method (3) | ACM? (4) | Friability Category (5) | Condition (6) | Accessibility (7) | Disturbance Potential (8) | Clean/Repair Needed? | Labeling Needed? (9) | Hazard Rank (10) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| M01.02 (Roof sealant) | ND | None Detected | PLM | >1% Asbestos | Category 1 Non-friable | Good | Rarely | Low | No | No | 4 |
| | | | | Hazard Assessment Comments: Around boiler flue or stack. | | | | | | | |
| Quantity: 15 ln. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |

## Room #: Stair 1 (Stair 1)

| Homogeneous Material (1) | Analytical Result (2) | Type of Asbestos | Analytical Method (3) | ACM? (4) | Friability Category (5) | Condition (6) | Accessibility (7) | Disturbance Potential (8) | Clean/Repair Needed? | Labeling Needed? (9) | Hazard Rank (10) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| M16.03 (Concrete floor) | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 90 sq. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |

## Room #: Stair 2 (Stair 2)

| Homogeneous Material (1) | Analytical Result (2) | Type of Asbestos | Analytical Method (3) | ACM? (4) | Friability Category (5) | Condition (6) | Accessibility (7) | Disturbance Potential (8) | Clean/Repair Needed? | Labeling Needed? (9) | Hazard Rank (10) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NSM.01 (Metal stairs (No Suspect Materials)) | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | Hazard Assessment Comments: Metal stairs (No Suspect Materials) | | | | | | | |
| Quantity: 0 sq. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |

# Table 3

Room-by-Room Inspection and Assessment Findings

Building No.: 111 (Building 111)

## Room #: Steam Tunnel (Steam Tunnel)

| Homogeneous Material (1) | Analytical Result (2) | Type of Asbestos | Analytical Method (3) | ACM? (4) | Friability Category (5) | Condition (6) | Accessibility (7) | Disturbance Potential (8) | Clean/Repair Needed? | Labeling Needed? (9) | Hazard Rank (10) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| M16.04 (Concrete foundation) | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 590 sq. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| M16.03 (Concrete floor) | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 510 sq. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| T03.03 (Straight pipe insulation (<6" O.D)) | ND | None Detected | PLM | >1% Asbestos | Friable | Good | Rarely | Low | No | Yes | 4 |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 45 ln. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| T02.01 (Pipe fitting insulation (>12" O.D)) | ND | None Detected | PLM | >1% Asbestos | Friable | Good | Periodically | Low | No | Yes | 4 |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 25 each | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| T02.02 (Pipe fitting insulation (>6" O.D)) | | | | >1% Asbestos | Friable | Good | Periodically | Low | No | Yes | 4 |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 10 each | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |

# Table 3

Room-by-Room Inspection and Assessment Findings

Building No.: 111 (Building 111)

## Room #: Steam Tunnel (Steam Tunnel)

| Homogeneous Material (1) | Analytical Result (2) | Type of Asbestos | Analytical Method (3) | ACM? (4) | Friability Category (5) | Condition (6) | Accessibility (7) | Disturbance Potential (8) | Clean/Repair Needed? | Labeling Needed? (9) | Hazard Rank (10) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| T03.02 (Straight pipe insulation (>6" O.D) (Wrap/Paint 15% Chrysotile)) | ND | None Detected | PLM | >1% Asbestos | Friable | Good | Periodically | Moderate | No | Present | 4 |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 120 ln. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |
| T03.01 (Straight pipe insulation (>12" O.D)) | ND | None Detected | PLM | >1% Asbestos | Friable | Good | Periodically | Moderate | No | Present | 4 |
| | | | | Hazard Assessment Comments: | | | | | | | |
| Quantity: 205 ln. ft. | | | | | | | | | | | |
| Sample Comments: | | | | | | | | | | | |

# Table 3

## Room-by-Room Inspection and Assessment Findings

## Building No.: 111 (Building 111)

(1) Material Codes: T - Thermal Systems Insulation; S - Surfacing Material (Sprayed or Troweled-on); M - Miscellaneous Material; F - Miscellaneous Material (Floor Covering)
(2) Analytical Result: ND - No asbestos detected
(3) Analytical Method: PLM - Polarized Light Microscopy; Point Count - NESHAP point counting using Polarized Light Microscopy; TEM - Transmission Electron Microscopy
(4) ACM Designation: >1% Asbestos - Asbestos-containing materials that contain greater than 1% asbestos and are regulated under EPA and State air quality regulations, and have requirements for worker protection under OSHA. <=1% Asbestos - Asbestos-containing materials that contain less than or equal to 1% asbestos and are NOT regulated under EPA or State air quality regulations, but have requirements for worker protection under OSHA.
(5) Friability Category: Friable - "Friable ACM" is any material containing more than 1% asbestos (as determined by PLM) that, when dry, may be crumbled, pulverized, or reduced to powder by hand pressure and also includes non-friable ACM that may become friable during building demolition. Category 1 Non-Friable - "Category I non-friable ACM" are asbestos-containing resilient floor coverings (commonly known as vinyl asbestos tile (VAT)), asphalt roofing products, packings, and gaskets. Category 2 Non-Friable - "Category II non-friable ACM" encompasses all other non-friable ACM.
(6) Condition: Good - Undamaged, no visible damage, or extremely minor damage or surface maring. Damaged - Material has visible damage evenly distributed over less than 10% of its surface, or localized over less than 25% of its surface. Significantly Damaged - Material has visible damage that is evenly distributed over 10% or more of its surface, or localized over 25% or more of its surface.
(7) Accessibility: Inaccessible - Materials in locations that people have no reason to enter and that cannot be accessed without specific measures, such as demolition. Rarely - Rarely accessed identifies a material in a location that is infrequently accessed for a specific need. Periodically - Periodically accessed identifies a material in an area that is not occupied full time, but is accessed on a routine basis. Continuously - Continuously accessed identifies materials in an occupied location and within reach of the occupants, or subject to direct disturbance.
(8) Disturbance Potential: Low - Materials that are inaccessible or rarely accessed. Moderate - Materials that are periodically accessed, but which do not require direct handling. High - Materials in periodically or continuously accessed locations with a high probability of being disturbed.
(9) Labeling Needed: Yes - Affix a placard or signage identifying the material as ACM.
(10) Hazard Rank: 1 - Damaged or significantly damaged ACBM with a high disturbance potential. These materials require immediate isolation, removal, repair, encapsulation and/or enclosure. 2 - Damaged or significantly damaged ACBM with a low to moderate disturbance potential. These materials require removal, repair, encapsulation and/or enclosure. 3 - Intact (good condition) ACMB with a high disturbance potential. These materials require removal or enclosure, or increased O and M Plan inspection frequency. 4 - Intact (good condition) ACMB with a low to moderate disturbance potential. These materials require maintenance under the O and M Plan.
N/A - Not applicable. Asbestos was not detected in the Homogeneous Material.

# Table 4

## Bulk Sample Log sorted by Sample Number

## Building No.: 111 (Building 111)

| Sample Identification | | | | Sample Location | | | | | | Sample Analytical Results | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Floor # | Room # | Homogeneous Material (1) | Sample # | Reference Corner | Distance (feet) N | S | E | W | Ht. | Analytical Result (2) | Type of Asbestos | Analytical Method (3) | Composite Sample? (4) |
| M Mezzanine | 203 | M16.01 Cove base and adhesive | 111-001 | SW | 0 | | 6 | | 0 | ND | None Detected | PLM | No |
| | | | | Sample Location Comments: | | | | | | ND | None Detected | TEM | |
| M Mezzanine | 202 | M16.01 Cove base and adhesive | 111-002 | SE | 4 | | | 0 | 0 | ND | None Detected | PLM | No |
| | | | | Sample Location Comments: | | | | | | | | | |
| M Mezzanine | 202A | M16.01 Cove base and adhesive | 111-003 | NW | | 0 | 6 | | 0 | ND | None Detected | PLM | No |
| | | | | Sample Location Comments: | | | | | | | | | |
| M Mezzanine | 203 | M09.01 Ceiling tile (12 " x 12") and adhesive | 111-004 | NE | | 6 | | 0 | 1 | ND | None Detected | PLM | Yes |
| | | | | Sample Location Comments: ON WALL | | | | | | ND | None Detected | TEM | |
| M Mezzanine | 203 | M09.01 Ceiling tile (12 " x 12") and adhesive | 111-005 | SE | 0 | | | 0 | 1 | ND | None Detected | PLM | Yes |
| | | | | Sample Location Comments: ON WALL | | | | | | | | | |
| M Mezzanine | 203 | M09.01 Ceiling tile (12 " x 12") and adhesive | 111-006 | NW | | 6 | 0 | | 1 | ND | None Detected | PLM | Yes |
| | | | | Sample Location Comments: ON WALL | | | | | | | | | |

# Table 4

## Bulk Sample Log sorted by Sample Number

## Building No.: 111 (Building 111)

| Sample Identification | | | | Sample Location | | | | | | Sample Analytical Results | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Floor # | Room # | Homogeneous Material (1) | Sample # | Reference Corner | Distance (feet) N | S | E | W | Ht. | Analytical Result (2) | Type of Asbestos | Analytical Method (3) | Composite Sample? (4) |
| M Mezzanine | 203 | F03.01 Floor tile (12" x 12") and adhesive | 111-007 | SW | 5 | | 2 | | 0 | ND | None Detected | PLM | Yes |
| | | | | Sample Location Comments: | | | | | | 16.267% | Chrysotile | TEM | |
| M Mezzanine | 201 | F03.01 Floor tile (12" x 12") and adhesive | 111-008 | SW | 10 | | 5 | | 0 | ND | None Detected | PLM | Yes |
| | | | | Sample Location Comments: | | | | | | | | | |
| M Mezzanine | 201 | F03.01 Floor tile (12" x 12") and adhesive | 111-009 | SE | 5 | | | 7 | 0 | ND | None Detected | PLM | Yes |
| | | | | Sample Location Comments: | | | | | | | | | |
| 01 1st Floor | 102 | M10.04 Caulking (window glazing-interior) | 111-010 | SW | 7 | | 0 | | 4 | ND | None Detected | PLM | No |
| | | | | Sample Location Comments: (Interior of window beads and sashes) | | | | | | | | | |
| 01 1st Floor | 101 | M10.04 Caulking (window glazing-interior) | 111-011 | NE | | 0 | | 4 | 4 | ND | None Detected | PLM | No |
| | | | | Sample Location Comments: (Interior of window beads and sashes) | | | | | | | | | |
| M Mezzanine | 201 | M10.04 Caulking (window glazing-interior) | 111-012 | SE | 0 | | | 5 | 4 | ND | None Detected | PLM | No |
| | | | | Sample Location Comments: (interior of window) | | | | | | | | | |

# Table 4

## Bulk Sample Log sorted by Sample Number

## Building No.: 111 (Building 111)

| Sample Identification | | | | Sample Location | | | | | | Sample Analytical Results | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Floor # | Room # | Homogeneous Material [1] | Sample # | Reference Corner | Distance (feet) N | S | E | W | Ht. | Analytical Result [2] | Type of Asbestos | Analytical Method [3] | Composite Sample? [4] |
| 01 1st Floor | 102 | M15.01 Sink undercoat | 111-013 | NE | | 1 | | 12 | 3 | ND | None Detected | PLM | No |
| | | | | Sample Location Comments: | | | | | | | | | |
| M Mezzanine | 202 | M05.01 Plaster ceiling | 111-014 | SW | 4 | | 2 | | 8 | ND | None Detected | PLM | Yes |
| | | | | Sample Location Comments: | | | | | | | | | |
| M Mezzanine | 202 | M05.01 Plaster ceiling | 111-015 | NW | | 3 | 4 | | 8 | ND | None Detected | PLM | Yes |
| | | | | Sample Location Comments: | | | | | | | | | |
| M Mezzanine | 202 | M05.01 Plaster ceiling | 111-016 | SE | 3 | | | 6 | 8 | ND | None Detected | PLM | Yes |
| | | | | Sample Location Comments: | | | | | | | | | |
| 01 1st Floor | 103 | M16.03 Concrete floor | 111-017 | SE | 4 | | | 4 | 0 | ND | None Detected | PLM | No |
| | | | | Sample Location Comments: | | | | | | | | | |
| 01 1st Floor | 102 | M16.03 Concrete floor | 111-018 | SE | 10 | | | 9 | 0 | ND | None Detected | PLM | No |
| | | | | Sample Location Comments: | | | | | | | | | |

# Table 4

## Bulk Sample Log sorted by Sample Number

## Building No.: 111 (Building 111)

| Sample Identification | | | | Sample Location | | | | | | Sample Analytical Results | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Floor # | Room # | Homogeneous Material (1) | Sample # | Reference Corner | Distance (feet) N | S | E | W | Ht. | Analytical Result (2) | Type of Asbestos | Analytical Method (3) | Composite Sample? (4) |
| 01 1st Floor | 101 | M16.03 Concrete floor | 111-019 | SW | 28 | | 14 | | 0 | ND | None Detected | PLM | No |
| | | | | Sample Location Comments: | | | | | | | | | |
| 01 1st Floor | 102 | M16.04 Concrete foundation | 111-020 | NW | | 3 | 0 | | 4 | ND | None Detected | PLM | No |
| | | | | Sample Location Comments: | | | | | | | | | |
| 01 1st Floor | 101 | M16.04 Concrete foundation | 111-021 | NW | | 0 | 0 | | 0 | ND | None Detected | PLM | No |
| | | | | Sample Location Comments: | | | | | | | | | |
| 01 1st Floor | Exterior1 | M16.04 Concrete foundation | 111-022 | NW | | 36 | 0 | | 4 | ND | None Detected | PLM | No |
| | | | | Sample Location Comments: (Exterior of Room 101) | | | | | | | | | |
| 01 1st Floor | 103 | M16.05 Mortar (Red brick-12"x4") | 111-023 | SE | 1 | | | 0 | 4 | ND | None Detected | PLM | No |
| | | | | Sample Location Comments: | | | | | | | | | |
| 01 1st Floor | 101 | M16.05 Mortar (Red brick-12"x4") | 111-024 | NE | | 0 | | 12 | 4 | ND | None Detected | PLM | No |
| | | | | Sample Location Comments: (Interior Red brick 12" x 4") | | | | | | | | | |

# Table 4

## Bulk Sample Log sorted by Sample Number

## Building No.: 111 (Building 111)

| Sample Identification | | | | Sample Location | | | | | | Sample Analytical Results | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Floor # | Room # | Homogeneous Material (1) | Sample # | Reference Corner | Distance (feet) N | S | E | W | Ht. | Analytical Result (2) | Type of Asbestos | Analytical Method (3) | Composite Sample? (4) |
| 01<br>1st Floor | Exterior1 | M16.05<br>Mortar (Red brick-12"x4") | 111-025 | NW | | 38 | 0 | | 4 | ND | None Detected | PLM | No |
| | | | | Sample Location Comments:<br>(Exterior of R00m 101 - Red brick 12" x 4") | | | | | | | | | |
| M<br>Mezzanine | 201 | M16.02<br>Mortar (Mezzanine brick-12" x 12") | 111-026 | SW | 9 | | 0 | | 1 | ND | None Detected | PLM | No |
| | | | | Sample Location Comments: | | | | | | | | | |
| M<br>Mezzanine | 201 | M16.02<br>Mortar (Mezzanine brick-12" x 12") | 111-027 | NW | | 1 | 0 | | 1 | ND | None Detected | PLM | No |
| | | | | Sample Location Comments: | | | | | | | | | |
| M<br>Mezzanine | 202A | M16.02<br>Mortar (Mezzanine brick-12" x 12") | 111-028 | SE | 4 | | | 0 | 0 | ND | None Detected | PLM | No |
| | | | | Sample Location Comments: | | | | | | | | | |
| 01<br>1st Floor | 101 | T03.01<br>Straight pipe insulation (>12" O.D) | 111-029 | NW | | 35 | 2 | | 4 | 60% | Chrysotile | PLM | No |
| | | | | Sample Location Comments:<br>(Line 2) | | | | | | | | | |
| B<br>Basement | Steam Tunnel | T03.01<br>Straight pipe insulation (>12" O.D) | 111-030 | NE | | 1 | | 8 | 2 | ND | None Detected | PLM | No |
| | | | | Sample Location Comments:<br>(High pressure steam-tunnel) | | | | | | | | | |

# Table 4

## Bulk Sample Log sorted by Sample Number

## Building No.: 111 (Building 111)

| Sample Identification | | | | Sample Location | | | | | | Sample Analytical Results | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Floor # | Room # | Homogeneous Material [1] | Sample # | Reference Corner | Distance (feet) N | S | E | W | Ht. | Analytical Result [2] | Type of Asbestos | Analytical Method [3] | Composite Sample? [4] |
| 01 1st Floor | 101 | M10.04 Caulking (window glazing-interior) | 111-031 | NW | | 8 | 18 | | 15 | ND | None Detected | PLM | No |
| | | | | Sample Location Comments: (Line 1) | | | | | | | | | |
| 01 1st Floor | 101 | T03.02 Straight pipe insulation (>6" O.D) (Wrap/Paint 15% Chrysotile) | 111-032 | NW | | 33 | 2 | | 4 | ND | None Detected | PLM | No |
| | | | | Sample Location Comments: (House Line) | | | | | | | | | |
| B Basement | Steam Tunnel | T03.02 Straight pipe insulation (>6" O.D) (Wrap/Paint 15% Chrysotile) | 111-033 | SE | 1 | | | 8 | 3 | ND | None Detected | PLM | No |
| | | | | Sample Location Comments: (Laundry condensate) | | | | | | | | | |
| 01 1st Floor | 101 | T03.02 Straight pipe insulation (>6" O.D) (Wrap/Paint 15% Chrysotile) | 111-034 | NE | | 34 | | 10 | 12 | Insulation | None Detected | PLM | Yes |
| | | | | Sample Location Comments: (High pressure return) | | | | | | Wrap/Paint 15% | Chrysotile | PLM | |
| B Basement | 001 | T03.03 Straight pipe insulation (<6" O.D) | 111-035 | NE | | 8 | | 10 | 4 | Insulation | None Detected | PLM | Yes |
| | | | | Sample Location Comments: (Condensate) | | | | | | Wrap/Paint 15% | Chrysotile | PLM | |
| B Basement | Steam Tunnel | T03.03 Straight pipe insulation (<6" O.D) | 111-036 | SE | 1 | | | 6 | 4 | ND | None Detected | PLM | Yes |
| | | | | Sample Location Comments: (Laundry return) | | | | | | | | | |

# Table 4

## Bulk Sample Log sorted by Sample Number

## Building No.: 111 (Building 111)

| Sample Identification | | | | Sample Location | | | | | | Sample Analytical Results | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Floor # | Room # | Homogeneous Material (1) | Sample # | Reference Corner | Distance (feet) N | S | E | W | Ht. | Analytical Result (2) | Type of Asbestos | Analytical Method (3) | Composite Sample? (4) |
| B | 001 | T03.03 | 111-037 | NW | | 1 | 1 | | 10 | 60% | Chrysotile | PLM | No |
| Basement | | Straight pipe insulation (<6" O.D) | | Sample Location Comments: (Culinary) | | | | | | | | | |
| 01 | 101 | T02.01 | 111-038 | NW | | 42 | 3 | | 4 | Insulation 50% | Chrysotile | PLM | Yes |
| 1st Floor | | Pipe fitting insulation (>12" O.D) | | Sample Location Comments: (Line 3) | | | | | | Wrap 15% | Chrysotile | PLM | |
| B | 001 | T02.01 | 111-039 | SW | 1 | | 5 | | 3 | Insulation | None Detected | PLM | Yes |
| Basement | | Pipe fitting insulation (>12" O.D) | | Sample Location Comments: | | | | | | Wrap/Paint 15% | Chrysotile | PLM | |
| B | Steam Tunnel | T02.01 | 111-040 | NE | | 1 | | 4 | 4 | ND | None Detected | PLM | No |
| Basement | | Pipe fitting insulation (>12" O.D) | | Sample Location Comments: (High pressure return) | | | | | | | | | |
| 01 | 101 | T02.02 | 111-041 | SE | 12 | | | 8 | 7 | Insulation | None Detected | PLM | Yes |
| 1st Floor | | Pipe fitting insulation (>6" O.D) | | Sample Location Comments: (High pressure return) | | | | | | Wrap/Paint 15% | Chrysotile | PLM | |
| 01 | 101 | T02.02 | 111-042 | SE | 23 | | | 14 | 7 | Insulation | None Detected | PLM | Yes |
| 1st Floor | | Pipe fitting insulation (>6" O.D) | | Sample Location Comments: (Feedwater) | | | | | | Wrap/Paint 15% | Chrysotile | PLM | |

# Table 4

## Bulk Sample Log sorted by Sample Number

## Building No.: 111 (Building 111)

| Sample Identification | | | | Sample Location | | | | | | Sample Analytical Results | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Floor # | Room # | Homogeneous Material (1) | Sample # | Reference Corner | Distance (feet) N | S | E | W | Ht. | Analytical Result (2) | Type of Asbestos | Analytical Method (3) | Composite Sample? (4) |
| B | 001 | T02.02 | 111-043 | SW | 1 | | 1 | | 3 | ND | None Detected | PLM | Yes |
| Basement | | Pipe fitting insulation (>6" O.D) | | Sample Location Comments: (Laundry) | | | | | | | | | |
| 01 | 101 | T02.03 | 111-044 | SE | 11 | | | 8 | 7 | 50% | Chrysotile | PLM | No |
| 1st Floor | | Pipe fitting insulation (<6" O.D) | | Sample Location Comments: (Raw water) | | | | | | | | | |
| B | 001 | T02.03 | 111-045 | SE | 3 | | | 5 | 5 | ND | None Detected | PLM | Yes |
| Basement | | Pipe fitting insulation (<6" O.D) | | Sample Location Comments: (Soft water) | | | | | | | | | |
| B | 001 | T02.03 | 111-046 | SW | 1 | | 1 | | 3 | ND | None Detected | PLM | Yes |
| Basement | | Pipe fitting insulation (<6" O.D) | | Sample Location Comments: (Laundry return) | | | | | | | | | |
| 01 | 101 | T10.01 | 111-047 | NW | | 10 | 15 | | 2 | Gray Insul 20% | Chrysotile | PLM | Yes |
| 1st Floor | | Boiler stack insulation | | Sample Location Comments: (Boiler 1 stack/flue) | | | | | | White Insul | None Detected | PLM | |
| | | | | | | | | | | Wrap | None Detected | PLM | |
| 01 | 101 | T10.01 | 111-048 | SW | 28 | | 15 | | 2 | Insulation 20% | Chrysotile | PLM | Yes |
| 1st Floor | | Boiler stack insulation | | Sample Location Comments: (Boiler 2 stack/flue) | | | | | | Wrap | None Detected | PLM | |

# Table 4

## Bulk Sample Log sorted by Sample Number

## Building No.: 111 (Building 111)

| Sample Identification | | | | Sample Location | | | | | | Sample Analytical Results | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Floor # | Room # | Homogeneous Material [1] | Sample # | Reference Corner | Distance (feet) N | S | E | W | Ht. | Analytical Result [2] | Type of Asbestos | Analytical Method [3] | Composite Sample? [4] |
| 01 | 101 | T10.01 | 111-049 | SW | 10 | | 15 | | 2 | Insulation 20% | Chrysotile | PLM | Yes |
| 1st Floor | | Boiler stack insulation | | Sample Location Comments: | | | | | | Wrap | None Detected | PLM | |
| | | | | (Boiler 3 stack/flue) | | | | | | | | | |
| 01 | 101 | T05.01 | 111-050 | SE | 4 | | | 18 | 4 | Insulation 65% | Chrysotile | PLM | Yes |
| 1st Floor | | Tank insulation (condensate) | | Sample Location Comments: | | | | | | Wrap/Paint | None Detected | PLM | |
| | | | | (Condensate storage tank-S. end) | | | | | | | | | |
| 01 | 101 | T05.01 | 111-051 | SE | 12 | | | 18 | 4 | Insulation 65% | Chrysotile | PLM | Yes |
| 1st Floor | | Tank insulation (condensate) | | Sample Location Comments: | | | | | | Wrap/Paint | None Detected | PLM | |
| | | | | (Condensate storage tank-N. end) | | | | | | | | | |
| 01 | 101 | T05.01 | 111-052 | SE | 9 | | | 15 | 4 | Gray Insul 35% | Chrysotile | PLM | Yes |
| 1st Floor | | Tank insulation (condensate) | | Sample Location Comments: | | | | | | Wrap/Paint | None Detected | PLM | |
| | | | | (Condensate storage tank-middle) | | | | | | White Insul | None Detected | PLM | |
| 01 | 101 | T05.02 | 111-053 | NE | | 30 | | 3 | 4 | ND | None Detected | PLM | Yes |
| 1st Floor | | Tank insulation (deaerator) | | Sample Location Comments: | | | | | | | | | |
| | | | | (Deaerator tank-N. end) | | | | | | | | | |
| 01 | 101 | T05.02 | 111-054 | NE | | 12 | | 8 | 4 | ND | None Detected | PLM | Yes |
| 1st Floor | | Tank insulation (deaerator) | | Sample Location Comments: | | | | | | | | | |
| | | | | (Deaerator tank-S. end) | | | | | | | | | |

# Table 4

## Bulk Sample Log sorted by Sample Number

## Building No.: 111 (Building 111)

| Sample Identification | | | | Sample Location | | | | | | Sample Analytical Results | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Floor # | Room # | Homogeneous Material (1) | Sample # | Reference Corner | Distance (feet) N | S | E | W | Ht. | Analytical Result (2) | Type of Asbestos | Analytical Method (3) | Composite Sample? (4) |
| 01 1st Floor | 101 | T05.02 Tank insulation (deaerator) | 111-055 | NE | | 12 | | 4 | 4 | ND | None Detected | PLM | Yes |
| | | | | Sample Location Comments: (Deaerator tank-S. end; middle metal jacket) | | | | | | | | | |
| 01 1st Floor | 101 | T05.03 Tank insulation (flash) | 111-056 | NE | | 3 | | 7 | 6 | ND | None Detected | PLM | Yes |
| | | | | Sample Location Comments: (Flash tank-top end) | | | | | | | | | |
| 01 1st Floor | 101 | T05.03 Tank insulation (flash) | 111-057 | NE | | 8 | | 2 | 4 | ND | None Detected | PLM | Yes |
| | | | | Sample Location Comments: (Flash tank-bottom end) | | | | | | | | | |
| 01 1st Floor | 101 | M11.01 Fire door insulation | 111-058 | NW | | 0 | 5 | | 4 | ND | None Detected | PLM | No |
| | | | | Sample Location Comments: Fire door-vermiculite) | | | | | | | | | |
| M Mezzanine | 202A | M10.01 Plaster caulking (ceiling) | 111-059 | NW | | 4 | 0 | | 8 | ND | None Detected | PLM | No |
| | | | | Sample Location Comments: | | | | | | | | | |
| M Mezzanine | 202A | M10.01 Plaster caulking (ceiling) | 111-060 | SE | 0 | | | 3 | 8 | ND | None Detected | PLM | No |
| | | | | Sample Location Comments: | | | | | | | | | |

# Table 4

## Bulk Sample Log sorted by Sample Number

## Building No.: 111 (Building 111)

| Sample Identification | | | | Sample Location | | | | | | Sample Analytical Results | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Floor # | Room # | Homogeneous Material (1) | Sample # | Reference Corner | Distance (feet) N | S | E | W | Ht. | Analytical Result (2) | Type of Asbestos | Analytical Method (3) | Composite Sample? (4) |
| M<br>Mezzanine | 202 | M10.01<br>Plaster caulking (ceiling) | 111-061 | NE | | 0 | | 0 | 8 | ND | None Detected | PLM | No |
| | | | | Sample Location Comments: | | | | | | | | | |
| 01<br>1st Floor | Exterior1 | M10.02<br>Window caulking (exterior) | 111-062 | NE | | 0 | | 16 | 4 | 4% | Chrysotile | PLM | No |
| | | | | Sample Location Comments:<br>(W. window-Room 101) | | | | | | | | | |
| 01<br>1st Floor | Exterior1 | M10.02<br>Window caulking (exterior) | 111-063 | NE | | 10 | | 0 | 4 | 4% | Chrysotile | PLM | No |
| | | | | Sample Location Comments:<br>(N. window-Room 101) | | | | | | | | | |
| 01<br>1st Floor | Exterior1 | M10.02<br>Window caulking (exterior) | 111-064 | SW | 0 | | 10 | | 4 | ND | None Detected | PLM | No |
| | | | | Sample Location Comments:<br>(E. window-Room 102) | | | | | | | | | |
| 01<br>1st Floor | 101 | T05.03<br>Tank insulation (flash) | 111-065 | NE | | 4 | | 3 | 4 | ND | None Detected | PLM | Yes |
| | | | | Sample Location Comments:<br>(Flash tank-middle) | | | | | | | | | |
| 01<br>1st Floor | Exterior1 | M10.03<br>Downspout caulking (downspout basin) | 111-066 | NW | | 3 | 0 | | 11 | ND | None Detected | PLM | No |
| | | | | Sample Location Comments:<br>(Exterior of Room 103) | | | | | | | | | |

# Table 4

## Bulk Sample Log sorted by Sample Number

## Building No.: 111 (Building 111)

| Sample Identification | | | | Sample Location | | | | | | Sample Analytical Results | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Floor # | Room # | Homogeneous Material (1) | Sample # | Reference Corner | Distance (feet) N | S | E | W | Ht. | Analytical Result(2) | Type of Asbestos | Analytical Method(3) | Composite Sample?(4) |
| 01 | Exterior1 | M10.03 | 111-067 | NW | | 3 | 0 | | 11 | ND | None Detected | PLM | No |
| 1st Floor | | Downspout caulking (downspout basin) | | Sample Location Comments: (Exterior of Room 103) | | | | | | | | | |
| 01 | Exterior1 | M10.03 | 111-068 | NW | | 3 | 0 | | 11 | ND | None Detected | PLM | No |
| 1st Floor | | Downspout caulking (downspout basin) | | Sample Location Comments: (Exterior of Room 103) | | | | | | | | | |
| 01 | 102 | T03.04 | 111-069 | NW | | 1 | 1 | | 2 | ND | None Detected | PLM | No |
| 1st Floor | | Straight pipe insulation (cardboard) | | Sample Location Comments: | | | | | | | | | |
| R | Roof | M01.01 | 111-070 | SW | 10 | | 5 | | 0 | ND | None Detected | PLM | Yes |
| Roof | | Flat asphalt rolled roofing (core) | | Sample Location Comments: (Gray rolled roofing materials-core) | | | | | | ND | None Detected | TEM | |
| R | Roof | M01.01 | 111-071 | SE | 30 | | | 10 | 0 | ND | None Detected | PLM | Yes |
| Roof | | Flat asphalt rolled roofing (core) | | Sample Location Comments: (Roofing materials beneath rolled roof) | | | | | | | | | |
| R | Roof | M01.01 | 111-072 | NW | | 3 | 13 | | 0 | ND | None Detected | PLM | Yes |
| Roof | | Flat asphalt rolled roofing (core) | | Sample Location Comments: (Roofing materials beneath rolled roof) | | | | | | | | | |

# Table 4

## Bulk Sample Log sorted by Sample Number

## Building No.: 111 (Building 111)

| Sample Identification | | | | Sample Location | | | | | | Sample Analytical Results | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Floor # | Room # | Homogeneous Material (1) | Sample # | Reference Corner | Distance (feet) N | S | E | W | Ht. | Analytical Result(2) | Type of Asbestos | Analytical Method(3) | Composite Sample?(4) |
| R | Roof | M01.02 | 111-073 | NW | | 20 | 20 | | 0 | ND | None Detected | PLM | No |
| Roof | | Roof sealant | | Sample Location Comments: | | | | | | 4.175% | Chrysotile | TEM | |
| | | | | (Around boiler flue) | | | | | | | | | |
| R | Roof | M01.02 | 111-074 | NW | | 38 | 20 | | 0 | ND | None Detected | PLM | No |
| Roof | | Roof sealant | | Sample Location Comments: | | | | | | | | | |
| | | | | (Around boiler flue) | | | | | | | | | |
| R | Roof | M01.02 | 111-075 | SW | 30 | | 20 | | 0 | ND | None Detected | PLM | No |
| Roof | | Roof sealant | | Sample Location Comments: | | | | | | | | | |
| | | | | (Around boiler flue) | | | | | | | | | |

(1) Material Codes: T - Thermal Systems Insulation; S - Surfacing Material (Sprayed or Troweled-on); M - Miscellaneous Material; F - Miscellaneous Material (Floor Covering)
(2) Analytical Result: ND - No asbestos detected
(3) Analytical Method: PLM - Polarized Light Microscopy; Point Count - NESHAP point counting using Polarized Light Microscopy; TEM - Transmission Electron Microscopy
(4) Composite samples contain greater than one suspect material.

# Table 5

## Homogeneous Materials with Room-by-Room Inspection and Assessment Findings

## Building No.: 111 (Building 111)

| **Functional Space:** | **Building 111** | **Entire Building** |
|---|---|---|

**Homogeneous Material[1]: F03.01 (Floor tile (12" x 12") and adhesive)**

| Room # | Quantity | Units | Analytical Result[2] | Type of Asbestos | Analytical Method[3] | ACM?[4] | Friability Category[5] | Condition[6] | Accessibility[7] | Disturbance Potential[8] | Clean/Repair Needed? | Labeling Needed?[9] | Hazard Rank[10] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 201 | 550 | sq. ft. | ND | None Detected | PLM | >1% Asbestos | Category 1 Non-friable | Good | Continuously | Moderate | No | No | 4 |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| 201 | 550 | sq. ft. | ND | None Detected | PLM | >1% Asbestos | Category 1 Non-friable | Good | Continuously | Moderate | No | No | 4 |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| 202 | 80 | sq. ft. | | | | >1% Asbestos | Category 1 Non-friable | Good | Continuously | Moderate | No | No | 4 |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| 202A | 90 | sq. ft. | | | | >1% Asbestos | Category 1 Non-friable | Good | Continuously | Moderate | No | No | 4 |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| 203 | 100 | sq. ft. | ND | None Detected | PLM | >1% Asbestos | Category 1 Non-friable | Good | Continuously | Moderate | No | No | 4 |
| | | | 16.267% | Chrysotile | TEM | | | | | | | | |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |

# Table 5

Homogeneous Materials with Room-by-Room Inspection and Assessment Findings

Building No.: 111 (Building 111)

| **Functional Space:** | **Building 111** | **Entire Building** |
|---|---|---|

**Homogeneous Material[1]: M01.01 (Flat asphalt rolled roofing (core))**

| Room # | Quantity | Units | Analytical Result[2] | Type of Asbestos | Analytical Method[3] | ACM?[4] | Friability Category[5] | Condition[6] | Accessibility[7] | Disturbance Potential[8] | Clean/Repair Needed? | Labeling Needed?[9] | Hazard Rank[10] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Roof | 4630 | sq. ft. | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| Roof | 4630 | sq. ft. | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| Roof | 4630 | sq. ft. | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | ND | None Detected | TEM | | | | | | | | |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |

**Homogeneous Material[1]: M01.02 (Roof sealant)**

| Room # | Quantity | Units | Analytical Result[2] | Type of Asbestos | Analytical Method[3] | ACM?[4] | Friability Category[5] | Condition[6] | Accessibility[7] | Disturbance Potential[8] | Clean/Repair Needed? | Labeling Needed?[9] | Hazard Rank[10] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Roof | 15 | ln. ft. | ND | None Detected | PLM | >1% Asbestos | Category 1 Non-friable | Good | Rarely | Low | No | No | 4 |
| | | | | | | Hazard Assessment Comments: Around boiler flue or stack. | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |

# Table 5

Homogeneous Materials with Room-by-Room Inspection and Assessment Findings
Building No.: 111 (Building 111)

| Functional Space: | Building 111 | Entire Building |
|---|---|---|

**Homogeneous Material[1]: M01.02 (Roof sealant)**

| Room # | Quantity | Units | Analytical Result[2] | Type of Asbestos | Analytical Method[3] | ACM?[4] | Friability Category[5] | Condition[6] | Accessibility[7] | Disturbance Potential[8] | Clean/Repair Needed? | Labeling Needed?[9] | Hazard Rank[10] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Roof | 15 | ln. ft. | ND | None Detected | PLM | >1% Asbestos | Category 1 Non-friable | Good | Rarely | Low | No | No | 4 |
| | | | | | | Hazard Assessment Comments: Around boiler flue or stack. | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| Roof | 15 | ln. ft. | ND | None Detected | PLM | >1% Asbestos | Category 1 Non-friable | Good | Rarely | Low | No | No | 4 |
| | | | 4.175% | Chrysotile | TEM | | | | | | | | |
| | | | | | | Hazard Assessment Comments: Around boiler flue or stack. | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |

**Homogeneous Material[1]: M05.01 (Plaster ceiling)**

| Room # | Quantity | Units | Analytical Result[2] | Type of Asbestos | Analytical Method[3] | ACM?[4] | Friability Category[5] | Condition[6] | Accessibility[7] | Disturbance Potential[8] | Clean/Repair Needed? | Labeling Needed?[9] | Hazard Rank[10] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 202 | 80 | sq. ft. | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| 202 | 80 | sq. ft. | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |

# Table 5

Homogeneous Materials with Room-by-Room Inspection and Assessment Findings

Building No.: 111 (Building 111)

| **Functional Space:** | **Building 111** | **Entire Building** |
|---|---|---|

**Homogeneous Material[1]: M05.01 (Plaster ceiling)**

| Room # | Quantity | Units | Analytical Result[2] | Type of Asbestos | Analytical Method[3] | ACM?[4] | Friability Category[5] | Condition[6] | Accessibility[7] | Disturbance Potential[8] | Clean/Repair Needed? | Labeling Needed?[9] | Hazard Rank[10] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 202 | 80 | sq. ft. | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| 202A | 90 | sq. ft. | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| 203 | 100 | sq. ft. | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |

**Homogeneous Material[1]: M09.01 (Ceiling tile (12 " x 12") and adhesive)**

| Room # | Quantity | Units | Analytical Result[2] | Type of Asbestos | Analytical Method[3] | ACM?[4] | Friability Category[5] | Condition[6] | Accessibility[7] | Disturbance Potential[8] | Clean/Repair Needed? | Labeling Needed?[9] | Hazard Rank[10] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 203 | 400 | sq. ft. | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | ND | None Detected | TEM | | | | | | | | |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |

# Table 5

Homogeneous Materials with Room-by-Room Inspection and Assessment Findings

Building No.: 111 (Building 111)

| Functional Space: | Building 111 | Entire Building |
|---|---|---|

**Homogeneous Material[1]: M09.01 (Ceiling tile (12 " x 12") and adhesive)**

| Room # | Quantity | Units | Analytical Result[2] | Type of Asbestos | Analytical Method[3] | ACM?[4] | Friability Category[5] | Condition[6] | Accessibility[7] | Disturbance Potential[8] | Clean/Repair Needed? | Labeling Needed?[9] | Hazard Rank[10] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 203 | 400 | sq. ft. | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| 203 | 400 | sq. ft. | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |

**Homogeneous Material[1]: M10.01 (Plaster caulking (ceiling))**

| Room # | Quantity | Units | Analytical Result[2] | Type of Asbestos | Analytical Method[3] | ACM?[4] | Friability Category[5] | Condition[6] | Accessibility[7] | Disturbance Potential[8] | Clean/Repair Needed? | Labeling Needed?[9] | Hazard Rank[10] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 202 | 28 | ln. ft. | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| 202A | 26 | ln. ft. | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |

# Table 5

Homogeneous Materials with Room-by-Room Inspection and Assessment Findings
Building No.: 111 (Building 111)

| Functional Space: | Building 111 | Entire Building |
|---|---|---|

**Homogeneous Material[1]: M10.01 (Plaster caulking (ceiling))**

| Room # | Quantity | Units | Analytical Result[2] | Type of Asbestos | Analytical Method[3] | ACM?[4] | Friability Category[5] | Condition[6] | Accessibility[7] | Disturbance Potential[8] | Clean/Repair Needed? | Labeling Needed?[9] | Hazard Rank[10] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 202A | 26 | ln. ft. | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |

**Homogeneous Material[1]: M10.02 (Window caulking (exterior))**

| Room # | Quantity | Units | Analytical Result[2] | Type of Asbestos | Analytical Method[3] | ACM?[4] | Friability Category[5] | Condition[6] | Accessibility[7] | Disturbance Potential[8] | Clean/Repair Needed? | Labeling Needed?[9] | Hazard Rank[10] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Exterior1 | 500 | ln. ft. | 4% | Chrysotile | PLM | >1% Asbestos | Category 2 Non-friable | Good | Rarely | Low | No | No | 4 |
| | | | | | | Hazard Assessment Comments: Exterior window caulking. | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| Exterior1 | 500 | ln. ft. | ND | None Detected | PLM | >1% Asbestos | Category 2 Non-friable | Good | Rarely | Low | No | No | 4 |
| | | | | | | Hazard Assessment Comments: Exterior window caulking. | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| Exterior1 | 500 | ln. ft. | 4% | Chrysotile | PLM | >1% Asbestos | Category 2 Non-friable | Good | Rarely | Low | No | No | 4 |
| | | | | | | Hazard Assessment Comments: Exterior window caulking. | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |

# Table 5

Homogeneous Materials with Room-by-Room Inspection and Assessment Findings

Building No.: 111 (Building 111)

| **Functional Space:** | **Building 111** | **Entire Building** |
|---|---|---|

**Homogeneous Material[1]: M10.02 (Window caulking (exterior))**

| Room # | Quantity | Units | Analytical Result[2] | Type of Asbestos | Analytical Method[3] | ACM?[4] | Friability Category[5] | Condition[6] | Accessibility[7] | Disturbance Potential[8] | Clean/Repair Needed? | Labeling Needed?[9] | Hazard Rank[10] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Exterior2 | 210 | ln. ft. | | | | >1% Asbestos | Category 2 Non-friable | Damaged | Rarely | Moderate | Yes | No | 2 |
| | | | | | | Hazard Assessment Comments: Mezzanine Room 201, 202A, and 203. | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |

**Homogeneous Material[1]: M10.03 (Downspout caulking (downspout basin))**

| Room # | Quantity | Units | Analytical Result[2] | Type of Asbestos | Analytical Method[3] | ACM?[4] | Friability Category[5] | Condition[6] | Accessibility[7] | Disturbance Potential[8] | Clean/Repair Needed? | Labeling Needed?[9] | Hazard Rank[10] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Exterior1 | 20 | ln. ft. | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| Exterior1 | 20 | ln. ft. | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| Exterior1 | 20 | ln. ft. | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |

# Table 5

Homogeneous Materials with Room-by-Room Inspection and Assessment Findings

Building No.: 111 (Building 111)

| **Functional Space:** | **Building 111** | **Entire Building** | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Homogeneous Material[1]: M10.04 (Caulking (window glazing-interior))** | | | | | | | | | | | | |
| **Room #** | **Quantity** | **Units** | **Analytical Result[2]** | **Type of Asbestos** | **Analytical Method[3]** | **ACM?[4]** | **Friability Category[5]** | **Condition[6]** | **Accessibility[7]** | **Disturbance Potential[8]** | **Clean/Repair Needed?** | **Labeling Needed?[9]** | **Hazard Rank[10]** |
| 101 | 1360 | ln. ft. | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| 101 | 1360 | ln. ft. | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| 102 | 425 | ln. ft. | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| 201 | 85 | ln. ft. | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| 202A | 100 | ln. ft. | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |

# Table 5

Homogeneous Materials with Room-by-Room Inspection and Assessment Findings

Building No.: 111 (Building 111)

| Functional Space: | Building 111 | Entire Building |
|---|---|---|

**Homogeneous Material[1]: M10.04 (Caulking (window glazing-interior))**

| Room # | Quantity | Units | Analytical Result[2] | Type of Asbestos | Analytical Method[3] | ACM?[4] | Friability Category[5] | Condition[6] | Accessibility[7] | Disturbance Potential[8] | Clean/Repair Needed? | Labeling Needed?[9] | Hazard Rank[10] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 203 | 50 | ln. ft. | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |

Sample Comments:

**Homogeneous Material[1]: M11.01 (Fire door insulation)**

| Room # | Quantity | Units | Analytical Result[2] | Type of Asbestos | Analytical Method[3] | ACM?[4] | Friability Category[5] | Condition[6] | Accessibility[7] | Disturbance Potential[8] | Clean/Repair Needed? | Labeling Needed?[9] | Hazard Rank[10] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 101 | 7 | each | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |

Sample Comments:

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 102 | 1 | each | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |

Sample Comments:

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 103 | 1 | each | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |

Sample Comments:

# Table 5

Homogeneous Materials with Room-by-Room Inspection and Assessment Findings

Building No.: 111 (Building 111)

| Functional Space: | Building 111 | Entire Building |
|---|---|---|

**Homogeneous Material(1): M11.01 (Fire door insulation)**

| Room # | Quantity | Units | Analytical Result(2) | Type of Asbestos | Analytical Method(3) | ACM?(4) | Friability Category(5) | Condition(6) | Accessibility(7) | Disturbance Potential(8) | Clean/Repair Needed? | Labeling Needed?(9) | Hazard Rank(10) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 104 | 2 | each | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |

Sample Comments:

**Homogeneous Material(1): M15.01 (Sink undercoat)**

| Room # | Quantity | Units | Analytical Result(2) | Type of Asbestos | Analytical Method(3) | ACM?(4) | Friability Category(5) | Condition(6) | Accessibility(7) | Disturbance Potential(8) | Clean/Repair Needed? | Labeling Needed?(9) | Hazard Rank(10) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 102 | 1 | each | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |

Sample Comments:

**Homogeneous Material(1): M16.01 (Cove base and adhesive)**

| Room # | Quantity | Units | Analytical Result(2) | Type of Asbestos | Analytical Method(3) | ACM?(4) | Friability Category(5) | Condition(6) | Accessibility(7) | Disturbance Potential(8) | Clean/Repair Needed? | Labeling Needed?(9) | Hazard Rank(10) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 202 | 30 | ln. ft. | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |

Sample Comments:

# Table 5

Homogeneous Materials with Room-by-Room Inspection and Assessment Findings

Building No.: 111 (Building 111)

| Functional Space: | Building 111 | Entire Building |
|---|---|---|

**Homogeneous Material[1]: M16.01 (Cove base and adhesive)**

| Room # | Quantity | Units | Analytical Result[2] | Type of Asbestos | Analytical Method[3] | ACM?[4] | Friability Category[5] | Condition[6] | Accessibility[7] | Disturbance Potential[8] | Clean/Repair Needed? | Labeling Needed?[9] | Hazard Rank[10] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 202A | 30 | ln. ft. | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| 203 | 40 | ln. ft. | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | ND | None Detected | TEM | | | | | | | | |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |

**Homogeneous Material[1]: M16.02 (Mortar (Mezzanine brick-12" x 12"))**

| Room # | Quantity | Units | Analytical Result[2] | Type of Asbestos | Analytical Method[3] | ACM?[4] | Friability Category[5] | Condition[6] | Accessibility[7] | Disturbance Potential[8] | Clean/Repair Needed? | Labeling Needed?[9] | Hazard Rank[10] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 201 | 215 | sq. ft. | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| 201 | 215 | sq. ft. | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |

# Table 5

Homogeneous Materials with Room-by-Room Inspection and Assessment Findings

Building No.: 111 (Building 111)

| **Functional Space:** | **Building 111** | **Entire Building** |
|---|---|---|

**Homogeneous Material[1]: M16.02 (Mortar (Mezzanine brick-12" x 12"))**

| Room # | Quantity | Units | Analytical Result[2] | Type of Asbestos | Analytical Method[3] | ACM?[4] | Friability Category[5] | Condition[6] | Accessibility[7] | Disturbance Potential[8] | Clean/Repair Needed? | Labeling Needed?[9] | Hazard Rank[10] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 202 | 200 | sq. ft. | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| 202A | 110 | sq. ft. | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| 203 | 240 | sq. ft. | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |

**Homogeneous Material[1]: M16.03 (Concrete floor)**

| Room # | Quantity | Units | Analytical Result[2] | Type of Asbestos | Analytical Method[3] | ACM?[4] | Friability Category[5] | Condition[6] | Accessibility[7] | Disturbance Potential[8] | Clean/Repair Needed? | Labeling Needed?[9] | Hazard Rank[10] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 001 | 500 | sq. ft. | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |

# Table 5

Homogeneous Materials with Room-by-Room Inspection and Assessment Findings
Building No.: 111 (Building 111)

| **Functional Space:** | **Building 111** | **Entire Building** | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Homogeneous Material[1]: M16.03 (Concrete floor)** | | | | | | | | | | | | |
| **Room #** | **Quantity** | **Units** | **Analytical Result[2]** | **Type of Asbestos** | **Analytical Method[3]** | **ACM?[4]** | **Friability Category[5]** | **Condition[6]** | **Accessibility[7]** | **Disturbance Potential[8]** | **Clean/Repair Needed?** | **Labeling Needed?[9]** | **Hazard Rank[10]** |
| 101 | 4700 | sq. ft. | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| 102 | 1535 | sq. ft. | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| 103 | 360 | sq. ft. | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| 104 | 640 | sq. ft. | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| 201 | 1100 | sq. ft. | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: Concrete on floor and ceiling deck. | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |

# Table 5

Homogeneous Materials with Room-by-Room Inspection and Assessment Findings
Building No.: 111 (Building 111)

| **Functional Space:** | **Building 111** | **Entire Building** |
|---|---|---|

**Homogeneous Material[1]: M16.03 (Concrete floor)**

| Room # | Quantity | Units | Analytical Result[2] | Type of Asbestos | Analytical Method[3] | ACM?[4] | Friability Category[5] | Condition[6] | Accessibility[7] | Disturbance Potential[8] | Clean/Repair Needed? | Labeling Needed?[9] | Hazard Rank[10] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 202 | 160 | sq. ft. | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: Concrete on floor and upper ceiling deck. | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| 202A | 180 | sq. ft. | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: Concrete on floor and upper ceiling deck. | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| 203 | 200 | sq. ft. | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: Concrete on floor and upper ceiling deck. | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| Stair 1 | 90 | sq. ft. | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| Steam Tunnel | 510 | sq. ft. | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |

# Table 5

Homogeneous Materials with Room-by-Room Inspection and Assessment Findings

Building No.: 111 (Building 111)

| **Functional Space:** | **Building 111** | **Entire Building** | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Homogeneous Material[1]: M16.04 (Concrete foundation)** | | | | | | | | | | | | |
| **Room #** | **Quantity** | **Units** | **Analytical Result[2]** | **Type of Asbestos** | **Analytical Method[3]** | **ACM?[4]** | **Friability Category[5]** | **Condition[6]** | **Accessibility[7]** | **Disturbance Potential[8]** | **Clean/Repair Needed?** | **Labeling Needed?[9]** | **Hazard Rank[10]** |
| 001 | 930 | sq. ft. | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| 101 | 980 | sq. ft. | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| 102 | 450 | sq. ft. | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| 103 | 160 | sq. ft. | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| 104 | 210 | sq. ft. | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |

# Table 5

Homogeneous Materials with Room-by-Room Inspection and Assessment Findings

Building No.: 111 (Building 111)

| Functional Space: | Building 111 | Entire Building |
|---|---|---|

**Homogeneous Material[1]: M16.04 (Concrete foundation)**

| Room # | Quantity | Units | Analytical Result[2] | Type of Asbestos | Analytical Method[3] | ACM?[4] | Friability Category[5] | Condition[6] | Accessibility[7] | Disturbance Potential[8] | Clean/Repair Needed? | Labeling Needed?[9] | Hazard Rank[10] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Exterior1 | 150 | sq. ft. | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| Steam Tunnel | 590 | sq. ft. | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |

**Homogeneous Material[1]: M16.05 (Mortar (Red brick-12"x4"))**

| Room # | Quantity | Units | Analytical Result[2] | Type of Asbestos | Analytical Method[3] | ACM?[4] | Friability Category[5] | Condition[6] | Accessibility[7] | Disturbance Potential[8] | Clean/Repair Needed? | Labeling Needed?[9] | Hazard Rank[10] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 101 | 9000 | sq. ft. | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| 102 | 840 | sq. ft. | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |

# Table 5

Homogeneous Materials with Room-by-Room Inspection and Assessment Findings

Building No.: 111 (Building 111)

| **Functional Space:** | **Building 111** | **Entire Building** | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Homogeneous Material[1]: M16.05 (Mortar (Red brick-12"x4"))** | | | | | | | | | | | | |
| **Room #** | **Quantity** | **Units** | **Analytical Result[2]** | **Type of Asbestos** | **Analytical Method[3]** | **ACM?[4]** | **Friability Category[5]** | **Condition[6]** | **Accessibility[7]** | **Disturbance Potential[8]** | **Clean/Repair Needed?** | **Labeling Needed?[9]** | **Hazard Rank[10]** |
| 103 | 340 | sq. ft. | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| 104 | 420 | sq. ft. | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| 201 | 1220 | sq. ft. | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| 202 | 230 | sq. ft. | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| 202A | 530 | sq. ft. | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |

# Table 5

Homogeneous Materials with Room-by-Room Inspection and Assessment Findings
Building No.: 111 (Building 111)

| Functional Space: | Building 111 | Entire Building |
|---|---|---|

**Homogeneous Material[1]: M16.05 (Mortar (Red brick-12"x4"))**

| Room # | Quantity | Units | Analytical Result[2] | Type of Asbestos | Analytical Method[3] | ACM?[4] | Friability Category[5] | Condition[6] | Accessibility[7] | Disturbance Potential[8] | Clean/Repair Needed? | Labeling Needed?[9] | Hazard Rank[10] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 203 | 280 | sq. ft. | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| Exterior1 | 10600 | sq. ft. | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |

**Homogeneous Material[1]: M19.01 (Ceramic tile adhesive (Assumed))**

| Room # | Quantity | Units | Analytical Result[2] | Type of Asbestos | Analytical Method[3] | ACM?[4] | Friability Category[5] | Condition[6] | Accessibility[7] | Disturbance Potential[8] | Clean/Repair Needed? | Labeling Needed?[9] | Hazard Rank[10] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 202A | 10 | sq. ft. | | | | >1% Asbestos | Category 2 Non-friable | Good | Rarely | Low | No | No | 4 |
| | | | | | | Hazard Assessment Comments: Assumed. Could not sample without damaging on 1"x1" ceramic tiles. | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |

# Table 5

Homogeneous Materials with Room-by-Room Inspection and Assessment Findings
Building No.: 111 (Building 111)

| Functional Space: | Building 111 | Entire Building |
|---|---|---|

**Homogeneous Material(1): M20.01 (Ceramic tile grout (Assumed))**

| Room # | Quantity | Units | Analytical Result(2) | Type of Asbestos | Analytical Method(3) | ACM?(4) | Friability Category(5) | Condition(6) | Accessibility(7) | Disturbance Potential(8) | Clean/Repair Needed? | Labeling Needed?(9) | Hazard Rank(10) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 202A | 10 | sq. ft. | | | | >1% Asbestos | Category 2 Non-friable | Good | Periodically | Low | No | No | 4 |
| | | | | | | Hazard Assessment Comments: Assumed. Could not sample without damaging on 1"x1" ceramic tiles. | | | | | | | |

Sample Comments:

**Homogeneous Material(1): NSM.01 (Metal stairs (No Suspect Materials))**

| Room # | Quantity | Units | Analytical Result(2) | Type of Asbestos | Analytical Method(3) | ACM?(4) | Friability Category(5) | Condition(6) | Accessibility(7) | Disturbance Potential(8) | Clean/Repair Needed? | Labeling Needed?(9) | Hazard Rank(10) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Stair 2 | 0 | sq. ft. | | | | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: Metal stairs (No Suspect Materials) | | | | | | | |

Sample Comments:

**Homogeneous Material(1): T02.01 (Pipe fitting insulation (>12" O.D))**

| Room # | Quantity | Units | Analytical Result(2) | Type of Asbestos | Analytical Method(3) | ACM?(4) | Friability Category(5) | Condition(6) | Accessibility(7) | Disturbance Potential(8) | Clean/Repair Needed? | Labeling Needed?(9) | Hazard Rank(10) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 001 | 25 | each | Insulation | None Detected | PLM | >1% Asbestos | Friable | Good | Periodically | Low | No | Yes | 4 |
| | | | Wrap/Paint 15% | Chrysotile | PLM | | | | | | | | |
| | | | | | | Hazard Assessment Comments: | | | | | | | |

Sample Comments:

# Table 5

Homogeneous Materials with Room-by-Room Inspection and Assessment Findings
Building No.: 111 (Building 111)

| **Functional Space:** | **Building 111** | **Entire Building** |
|---|---|---|

**Homogeneous Material[1]: T02.01 (Pipe fitting insulation (>12" O.D))**

| Room # | Quantity | Units | Analytical Result[2] | Type of Asbestos | Analytical Method[3] | ACM?[4] | Friability Category[5] | Condition[6] | Accessibility[7] | Disturbance Potential[8] | Clean/Repair Needed? | Labeling Needed?[9] | Hazard Rank[10] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 101 | 65 | each | Insulation 50% | Chrysotile | PLM | >1% Asbestos | Friable | Good | Rarely | Low | No | Yes | 4 |
| | | | Wrap 15% | Chrysotile | PLM | | | | | | | | |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| Steam Tunnel | 25 | each | ND | None Detected | PLM | >1% Asbestos | Friable | Good | Periodically | Low | No | Yes | 4 |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |

**Homogeneous Material[1]: T02.02 (Pipe fitting insulation (>6" O.D))**

| Room # | Quantity | Units | Analytical Result[2] | Type of Asbestos | Analytical Method[3] | ACM?[4] | Friability Category[5] | Condition[6] | Accessibility[7] | Disturbance Potential[8] | Clean/Repair Needed? | Labeling Needed?[9] | Hazard Rank[10] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 001 | 40 | each | ND | None Detected | PLM | >1% Asbestos | Friable | Good | Periodically | Low | No | Yes | 4 |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| 101 | 170 | each | Insulation | None Detected | PLM | >1% Asbestos | Friable | Good | Rarely | Low | No | Yes | 4 |
| | | | Wrap/Paint 15% | Chrysotile | PLM | | | | | | | | |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |

# Table 5

Homogeneous Materials with Room-by-Room Inspection and Assessment Findings
Building No.: 111 (Building 111)

| **Functional Space:** | **Building 111** | **Entire Building** |
|---|---|---|

**Homogeneous Material[1]: T02.02 (Pipe fitting insulation (>6" O.D))**

| Room # | Quantity | Units | Analytical Result[2] | Type of Asbestos | Analytical Method[3] | ACM?[4] | Friability Category[5] | Condition[6] | Accessibility[7] | Disturbance Potential[8] | Clean/Repair Needed? | Labeling Needed?[9] | Hazard Rank[10] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 101 | 170 | each | Insulation | None Detected | PLM | >1% Asbestos | Friable | Good | Rarely | Low | No | Yes | 4 |
| | | | Wrap/Paint 15% | Chrysotile | PLM | | | | | | | | |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| Steam Tunnel | 10 | each | | | | >1% Asbestos | Friable | Good | Periodically | Low | No | Yes | 4 |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |

**Homogeneous Material[1]: T02.03 (Pipe fitting insulation (<6" O.D))**

| Room # | Quantity | Units | Analytical Result[2] | Type of Asbestos | Analytical Method[3] | ACM?[4] | Friability Category[5] | Condition[6] | Accessibility[7] | Disturbance Potential[8] | Clean/Repair Needed? | Labeling Needed?[9] | Hazard Rank[10] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 001 | 60 | each | ND | None Detected | PLM | >1% Asbestos | Friable | Good | Periodically | Low | No | Yes | 4 |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| 001 | 60 | each | ND | None Detected | PLM | >1% Asbestos | Friable | Good | Periodically | Low | No | Yes | 4 |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |

# Table 5

Homogeneous Materials with Room-by-Room Inspection and Assessment Findings

Building No.: 111 (Building 111)

| Functional Space: | Building 111 | Entire Building |
|---|---|---|

**Homogeneous Material[1]: T02.03 (Pipe fitting insulation (<6" O.D))**

| Room # | Quantity | Units | Analytical Result[2] | Type of Asbestos | Analytical Method[3] | ACM?[4] | Friability Category[5] | Condition[6] | Accessibility[7] | Disturbance Potential[8] | Clean/Repair Needed? | Labeling Needed?[9] | Hazard Rank[10] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 101 | 105 | each | 50% | Chrysotile | PLM | >1% Asbestos | Friable | Good | Rarely | Low | No | Yes | 4 |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| 102 | 25 | each | | | | >1% Asbestos | Friable | Good | Rarely | Low | No | Yes | 4 |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| 201 | 8 | each | | | | >1% Asbestos | Friable | Good | Rarely | Low | No | Present | 4 |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |

**Homogeneous Material[1]: T03.01 (Straight pipe insulation (>12" O.D))**

| Room # | Quantity | Units | Analytical Result[2] | Type of Asbestos | Analytical Method[3] | ACM?[4] | Friability Category[5] | Condition[6] | Accessibility[7] | Disturbance Potential[8] | Clean/Repair Needed? | Labeling Needed?[9] | Hazard Rank[10] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 001 | 110 | ln. ft. | | | | >1% Asbestos | Friable | Good | Periodically | Moderate | No | Present | 4 |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |

# Table 5

Homogeneous Materials with Room-by-Room Inspection and Assessment Findings
Building No.: 111 (Building 111)

| Functional Space: | Building 111 | Entire Building |
|---|---|---|

**Homogeneous Material[1]: T03.01 (Straight pipe insulation (>12" O.D))**

| Room # | Quantity | Units | Analytical Result[2] | Type of Asbestos | Analytical Method[3] | ACM?[4] | Friability Category[5] | Condition[6] | Accessibility[7] | Disturbance Potential[8] | Clean/Repair Needed? | Labeling Needed?[9] | Hazard Rank[10] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 101 | 280 | ln. ft. | 60% | Chrysotile | PLM | >1% Asbestos | Friable | Good | Periodically | Moderate | No | Yes | 4 |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| Steam Tunnel | 205 | ln. ft. | ND | None Detected | PLM | >1% Asbestos | Friable | Good | Periodically | Moderate | No | Present | 4 |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |

**Homogeneous Material[1]: T03.02 (Straight pipe insulation (>6" O.D) (Wrap/Paint 15% Chrysotile))**

| Room # | Quantity | Units | Analytical Result[2] | Type of Asbestos | Analytical Method[3] | ACM?[4] | Friability Category[5] | Condition[6] | Accessibility[7] | Disturbance Potential[8] | Clean/Repair Needed? | Labeling Needed?[9] | Hazard Rank[10] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 001 | 145 | ln. ft. | | | | >1% Asbestos | Friable | Good | Periodically | Moderate | No | Present | 4 |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| 101 | 1010 | ln. ft. | ND | None Detected | PLM | >1% Asbestos | Friable | Good | Periodically | Moderate | No | Yes | 4 |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |

# Table 5

Homogeneous Materials with Room-by-Room Inspection and Assessment Findings
Building No.: 111 (Building 111)

| Functional Space: | Building 111 | Entire Building |
|---|---|---|

**Homogeneous Material(1): T03.02 (Straight pipe insulation (>6" O.D) (Wrap/Paint 15% Chrysotile))**

| Room # | Quantity | Units | Analytical Result(2) | Type of Asbestos | Analytical Method(3) | ACM?(4) | Friability Category(5) | Condition(6) | Accessibility(7) | Disturbance Potential(8) | Clean/Repair Needed? | Labeling Needed?(9) | Hazard Rank(10) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 101 | 1010 | ln. ft. | Insulation | None Detected | PLM | >1% Asbestos | Friable | Good | Periodically | Moderate | No | Yes | 4 |
| | | | Wrap/Paint 15% | Chrysotile | PLM | | | | | | | | |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| Steam Tunnel | 120 | ln. ft. | ND | None Detected | PLM | >1% Asbestos | Friable | Good | Periodically | Moderate | No | Present | 4 |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |

**Homogeneous Material(1): T03.03 (Straight pipe insulation (<6" O.D))**

| Room # | Quantity | Units | Analytical Result(2) | Type of Asbestos | Analytical Method(3) | ACM?(4) | Friability Category(5) | Condition(6) | Accessibility(7) | Disturbance Potential(8) | Clean/Repair Needed? | Labeling Needed?(9) | Hazard Rank(10) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 001 | 195 | ln. ft. | Insulation | None Detected | PLM | >1% Asbestos | Friable | Good | Periodically | Moderate | No | Yes | 4 |
| | | | Wrap/Paint 15% | Chrysotile | PLM | | | | | | | | |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| 001 | 195 | ln. ft. | 60% | Chrysotile | PLM | >1% Asbestos | Friable | Good | Periodically | Moderate | No | Yes | 4 |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |

# Table 5

Homogeneous Materials with Room-by-Room Inspection and Assessment Findings
Building No.: 111 (Building 111)

| Functional Space: | Building 111 | Entire Building |
|---|---|---|

**Homogeneous Material(1): T03.03 (Straight pipe insulation (<6" O.D))**

| Room # | Quantity | Units | Analytical Result(2) | Type of Asbestos | Analytical Method(3) | ACM?(4) | Friability Category(5) | Condition(6) | Accessibility(7) | Disturbance Potential(8) | Clean/Repair Needed? | Labeling Needed?(9) | Hazard Rank(10) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 101 | 685 | ln. ft. | | | | >1% Asbestos | Friable | Good | Rarely | Low | No | Yes | 4 |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| 201 | 75 | ln. ft. | | | | >1% Asbestos | Friable | Good | Rarely | Low | No | Yes | 4 |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| Steam Tunnel | 45 | ln. ft. | ND | None Detected | PLM | >1% Asbestos | Friable | Good | Rarely | Low | No | Yes | 4 |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |

**Homogeneous Material(1): T03.04 (Straight pipe insulation (cardboard))**

| Room # | Quantity | Units | Analytical Result(2) | Type of Asbestos | Analytical Method(3) | ACM?(4) | Friability Category(5) | Condition(6) | Accessibility(7) | Disturbance Potential(8) | Clean/Repair Needed? | Labeling Needed?(9) | Hazard Rank(10) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 102 | 5 | ln. ft. | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |

# Table 5

Homogeneous Materials with Room-by-Room Inspection and Assessment Findings

Building No.: 111 (Building 111)

| **Functional Space:** | **Building 111** | **Entire Building** |
|---|---|---|

**Homogeneous Material[1]: T03.05 (Straight pipe insulation debris (Assumed based on pipe insulation in area))**

| Room # | Quantity | Units | Analytical Result[2] | Type of Asbestos | Analytical Method[3] | ACM?[4] | Friability Category[5] | Condition[6] | Accessibility[7] | Disturbance Potential[8] | Clean/Repair Needed? | Labeling Needed?[9] | Hazard Rank[10] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 201 | 50 | ln. ft. | | | | >1% Asbestos | Friable | Significantly Damaged | Rarely | Low | Yes | Present | 2 |
| | | | | | | Hazard Assessment Comments: Pipe insulation debris above Rooms 202, 202A and 203. | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| 202 | 0 | ln. ft. | | | | >1% Asbestos | Friable | Significantly Damaged | Rarely | Low | Yes | Present | 2 |
| | | | | | | Hazard Assessment Comments: Pipe insulation debris above hard ceiling (debris actually in Room 201). | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| 202A | 0 | ln. ft. | | | | >1% Asbestos | Friable | Significantly Damaged | Rarely | Low | Yes | Present | 2 |
| | | | | | | Hazard Assessment Comments: Pipe insulation debris above hard ceiling (debris actually in Room 201). | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| 203 | 0 | ln. ft. | | | | >1% Asbestos | Friable | Significantly Damaged | Rarely | Low | Yes | Present | 2 |
| | | | | | | Hazard Assessment Comments: Pipe insulation debris above hard ceiling (debris actually in Room 201). | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |

# Table 5

Homogeneous Materials with Room-by-Room Inspection and Assessment Findings
Building No.: 111 (Building 111)

| **Functional Space:** | **Building 111** | **Entire Building** |
|---|---|---|

**Homogeneous Material[1]: T05.01 (Tank insulation (condensate))**

| Room # | Quantity | Units | Analytical Result[2] | Type of Asbestos | Analytical Method[3] | ACM?[4] | Friability Category[5] | Condition[6] | Accessibility[7] | Disturbance Potential[8] | Clean/Repair Needed? | Labeling Needed?[9] | Hazard Rank[10] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 101 | 515 | sq. ft. | Insulation 65% | Chrysotile | PLM | >1% Asbestos | Friable | Good | Rarely | Low | No | Yes | 4 |
| | | | Wrap/Paint | None Detected | PLM | | | | | | | | |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| 101 | 515 | sq. ft. | Insulation 65% | Chrysotile | PLM | >1% Asbestos | Friable | Good | Rarely | Low | No | Yes | 4 |
| | | | Wrap/Paint | None Detected | PLM | | | | | | | | |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| 101 | 515 | sq. ft. | Gray Insul 35% | Chrysotile | PLM | >1% Asbestos | Friable | Good | Rarely | Low | No | Yes | 4 |
| | | | Wrap/Paint | None Detected | PLM | | | | | | | | |
| | | | White Insul | None Detected | PLM | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |

**Homogeneous Material[1]: T05.02 (Tank insulation (deaerator))**

| Room # | Quantity | Units | Analytical Result[2] | Type of Asbestos | Analytical Method[3] | ACM?[4] | Friability Category[5] | Condition[6] | Accessibility[7] | Disturbance Potential[8] | Clean/Repair Needed? | Labeling Needed?[9] | Hazard Rank[10] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 101 | 740 | sq. ft. | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |

# Table 5

Homogeneous Materials with Room-by-Room Inspection and Assessment Findings

Building No.: 111 (Building 111)

| **Functional Space:** | **Building 111** | **Entire Building** |
|---|---|---|

**Homogeneous Material[1]: T05.02 (Tank insulation (deaerator))**

| Room # | Quantity | Units | Analytical Result[2] | Type of Asbestos | Analytical Method[3] | ACM?[4] | Friability Category[5] | Condition[6] | Accessibility[7] | Disturbance Potential[8] | Clean/Repair Needed? | Labeling Needed?[9] | Hazard Rank[10] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 101 | 740 | sq. ft. | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| 101 | 740 | sq. ft. | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |

**Homogeneous Material[1]: T05.03 (Tank insulation (flash))**

| Room # | Quantity | Units | Analytical Result[2] | Type of Asbestos | Analytical Method[3] | ACM?[4] | Friability Category[5] | Condition[6] | Accessibility[7] | Disturbance Potential[8] | Clean/Repair Needed? | Labeling Needed?[9] | Hazard Rank[10] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 101 | 100 | sq. ft. | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |
| 101 | 100 | sq. ft. | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |
| Sample Comments: | | | | | | | | | | | | | |

# Table 5

Homogeneous Materials with Room-by-Room Inspection and Assessment Findings
Building No.: 111 (Building 111)

| Functional Space: | Building 111 | Entire Building |
|---|---|---|

**Homogeneous Material[1]: T05.03 (Tank insulation (flash))**

| Room # | Quantity | Units | Analytical Result[2] | Type of Asbestos | Analytical Method[3] | ACM?[4] | Friability Category[5] | Condition[6] | Accessibility[7] | Disturbance Potential[8] | Clean/Repair Needed? | Labeling Needed?[9] | Hazard Rank[10] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 101 | 100 | sq. ft. | ND | None Detected | PLM | None Detected | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | | Hazard Assessment Comments: | | | | | | | |

Sample Comments:

**Homogeneous Material[1]: T10.01 (Boiler stack insulation)**

| Room # | Quantity | Units | Analytical Result[2] | Type of Asbestos | Analytical Method[3] | ACM?[4] | Friability Category[5] | Condition[6] | Accessibility[7] | Disturbance Potential[8] | Clean/Repair Needed? | Labeling Needed?[9] | Hazard Rank[10] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 101 | 2260 | sq. ft. | Insulation 20% | Chrysotile | PLM | >1% Asbestos | Friable | Good | Rarely | Low | No | Yes | 4 |
| | | | Wrap | None Detected | PLM | | | | | | | | |
| | | | | | | Hazard Assessment Comments: | | | | | | | |

Sample Comments:

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 101 | 2260 | sq. ft. | Insulation 20% | Chrysotile | PLM | >1% Asbestos | Friable | Good | Rarely | Low | No | Yes | 4 |
| | | | Wrap | None Detected | PLM | | | | | | | | |
| | | | | | | Hazard Assessment Comments: | | | | | | | |

Sample Comments:

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 101 | 2260 | sq. ft. | Gray Insul 20% | Chrysotile | PLM | >1% Asbestos | Friable | Good | Rarely | Low | No | Yes | 4 |
| | | | White Insul | None Detected | PLM | | | | | | | | |
| | | | Wrap | None Detected | PLM | Hazard Assessment Comments: | | | | | | | |

Sample Comments:

# Table 5

## Homogeneous Materials with Room-by-Room Inspection and Assessment Findings

## Building No.: 111 (Building 111)

(1) Material Codes: T - Thermal Systems Insulation; S - Surfacing Material (Sprayed or Troweled-on); M - Miscellaneous Material; F - Miscellaneous Material (Floor Covering)
(2) Analytical Result: ND - No asbestos detected
(3) Analytical Method: PLM - Polarized Light Microscopy; Point Count - NESHAP point counting using Polarized Light Microscopy; TEM - Transmission Electron Microscopy
(4) ACM Designation: >1% Asbestos - Asbestos-containing materials that contain greater than 1% asbestos and are regulated under EPA and State air quality regulations, and have requirements for worker protection under OSHA. <=1% Asbestos - Asbestos-containing materials that contain less than or equal to 1% asbestos and are NOT regulated under EPA or State air quality regulations, but have requirements for worker protection under OSHA.
(5) Friability Category: Friable - "Friable ACM" is any material containing more than 1% asbestos (as determined by PLM) that, when dry, may be crumbled, pulverized, or reduced to powder by hand pressure and also includes non-friable ACM that may become friable during building demolition. Category 1 Non-Friable - "Category I non-friable ACM" are asbestos-containing resilient floor coverings (commonly known as vinyl asbestos tile (VAT)), asphalt roofing products, packings, and gaskets. Category 2 Non-Friable - "Category II non-friable ACM" encompasses all other non-friable ACM.
(6) Condition: Good - Undamaged, no visible damage, or extremely minor damage or surface maring. Damaged - Material has visible damage evenly distributed over less than 10% of its surface, or localized over less than 25% of its surface. Significantly Damaged - Material has visible damage that is evenly distributed over 10% or more of its surface, or localized over 25% or more of its surface.
(7) Accessibility: Inaccessible - Materials in locations that people have no reason to enter and that cannot be accessed without specific measures, such as demolition. Rarely - Rarely accessed identifies a material in a location that is infrequently accessed for a specific need. Periodically - Periodically accessed identifies a material in an area that is not occupied full time, but is accessed on a routine basis. Continuously - Continuously accessed identifies materials in an occupied location and within reach of the occupants, or subject to direct disturbance.
(8) Disturbance Potential: Low - Materials that are inaccessible or rarely accessed. Moderate - Materials that are periodically accessed, but which do not require direct handling. High - Materials in periodically or continuously accessed locations with a high probability of being disturbed.
(9) Labeling Needed: Yes - Affix a placard or signage identifying the material as ACM.
(10) Hazard Rank: 1 - Damaged or significantly damaged ACBM with a high disturbance potential. These materials require immediate isolation, removal, repair, encapsulation and/or enclosure. 2 - Damaged or significantly damaged ACBM with a low to moderate disturbance potential. These materials require removal, repair, encapsulation and/or enclosure. 3 - Intact (good condition) ACMB with a high disturbance potential. These materials require removal or enclosure, or increased O and M Plan inspection frequency. 4 - Intact (good condition) ACMB with a low to moderate disturbance potential. These materials require maintenance under the O and M Plan.
N/A - Not applicable. Asbestos was not detected in the Homogeneous Material.

## Table 6
### Material Removal Unit Cost Estimates

| Material | Removal Cost Estimate |
|---|---|
| Sheet Vinyl Only | $2 -$20 per SF |
| Sheet Vinyl & Adhesive | $4 -$50 per SF |
| Floor Tile Only | $1 -$20 per SF |
| Floor Tile & Mastic | $2 -$40 per SF |
| Floor Tile Mastic Only | $1.75 -$35 per SF |
| Ceramic Tile Grout &Adhesive | $1.50 -25 per SF |
| Roof Tar Sealant | $25 per SF |
| Layered Roofing Material | $6 -$10 per SF |
| Plaster Patch (Caulking) | $40 per SF |
| Transite Wall Panels | $2 per SF |
| Exterior Surfacing | $10 -$60 per SF |
| Interior textured Surfacing (wall) | $4 -$40 per SF |
| Interior Textured Surfacing (ceiling) | $5 -$60 per SF |
| Gypsum Wallboard System | $2 - $30 per SF |
| Ceiling Tile | $2 -$40 per SF |
| Window Caulking | $3 -$40 per LF |
| Fire Door Insulation | $200 -$300 EA |
| Light Fixture Electrical Wiring | $15 -$150 EA |
| Electrical Wire Insulation | $1 -$30 per LF |
| Sink Undercoating (remove sink) | $40 -$300 EA |
| Cork Insulation with Black Tar Layer | $5 -$40 per SF |
| Duct Sealant | $6 -$25 per SF |
| Duct Insulation | $12 -$100 per SF |
| Duct Vibration Isolator | $150 EA |
| Laboratory Countertop | $200 - $300 EA |
| Pipe-Fitting Insulation | $8 - $400 EA |
| Pipe Saddle Insulation | $8 - $400 EA |
| Straight Pipe Insulation | $6 - $30 per LF |
| Tank/Boiler/Stack Insulation | $15 -$400 per SF |

*SF – square foot; LF – linear foot; EA – each

### Cost Estimate Limitations

These cost estimates are provided for the use of long-term budgeting and planning only and do not have a level of accuracy sufficient to be used as construction design cost estimates. The actual cost of asbestos removal is highly dependent on the size of the project or quantity of materials removed in a single abatement enclosure. The unit costs associated with small-scale emergency projects will typically be significantly greater than the costs associated with larger, planned projects. The removal costs shown in the Material Removal Unit Cost table attempt to capture the range of costs associated with a variety of removal scenarios.

Material replacement and consultant abatement management costs are <u>not</u> included in these estimates.

# Appendix B

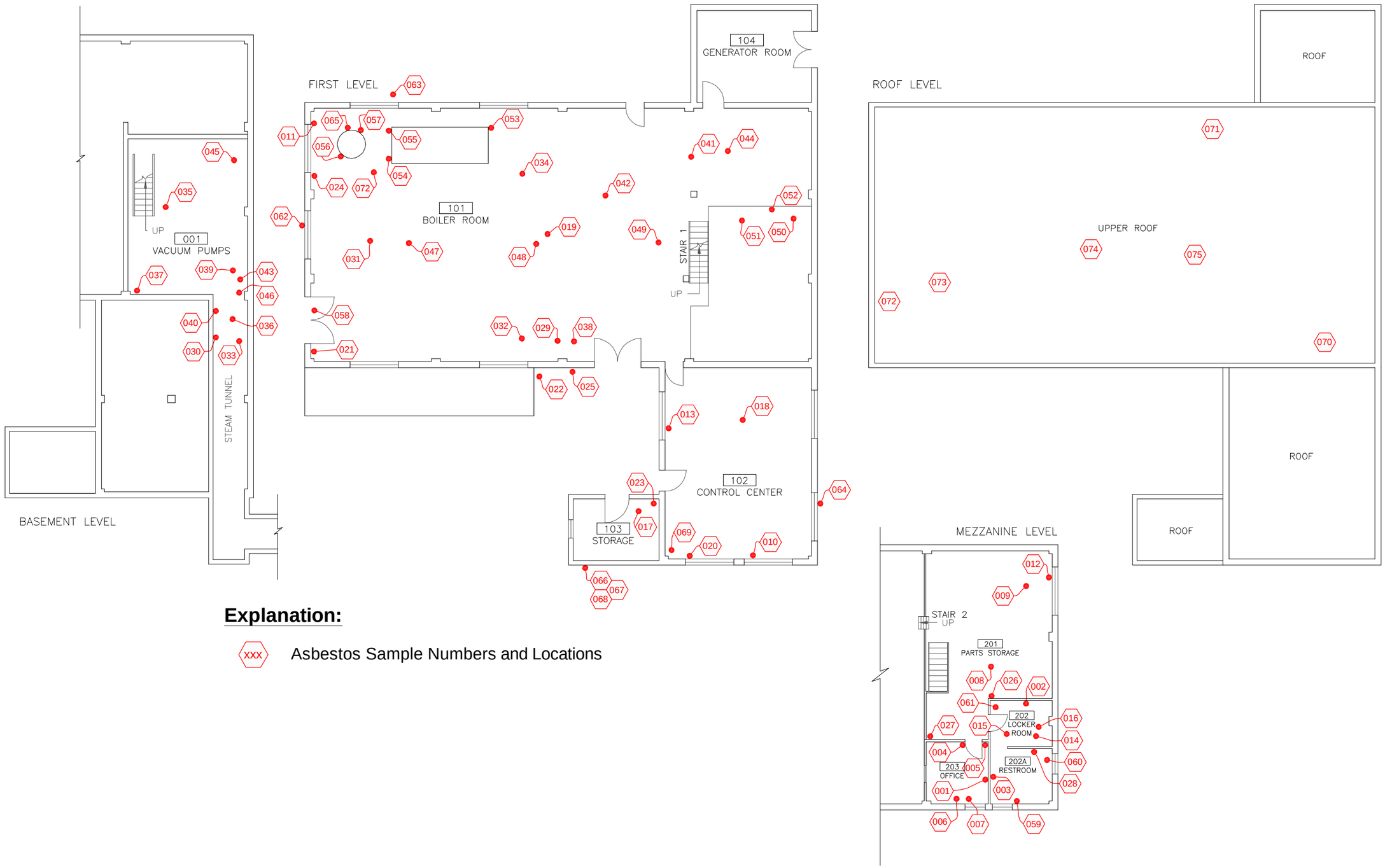
## Building Description & Floor Plans

# Building Information

## Building No.: 111 (Building 111)

| | | | |
|---|---|---|---|
| **Building Number:** | 111 | **Building Name:** | Building 111 |
| **Address 1:** | | **Construction Date:** | 1955 |
| **Address 2:** | | **Building Type / Use:** | Boiler Plant |
| **City / State / Zip:** | | | |

| | | | |
|---|---|---|---|
| **Building Renovations (Scopes and Dates):** | 1975: New boilers<br>1995: Controls<br>2008: Partial stacks, deaerator tank and associated feed pumps. | **Ceiling Finishes:** | Concrete |
| | | **Roof Construction:** | Asphalt rolled roofing |
| | | **Heating Plant:** | Boilers |
| | | **Heating Distribution** | Radiant |
| **Building Area (sq ft):** | 6,082 | | |
| **Structural System:** | Masonry on concrete | **Cooling Plant:** | Window AC units |
| **Exterior Wall Construction:** | Masonry (Red brick) | **Cooling Distribution / AC:** | Window AC units |
| **Exterior Finishes:** | Masonry (Red brick) | **Notes:** | |
| **Floor Deck Construction:** | Concrete | | |
| **Floor Construction / Finishes:** | Concrete | | |
| **Wall Construction / Finishes:** | Masonry (Red brick) | | |




## Explanation:

XXX Asbestos Sample Numbers and Locations


IHI ENVIRONMENTAL
4527 North 16th St. #105
Phoenix, AZ 85016
602.776.0300
phoenix@ihi-env.com


# Department of Veterans Affairs
## Northern Arizona Veterans Affairs Health Care System (NAVAHCS)
## Boiler Plant - Building 111
## Prescott, Arizona

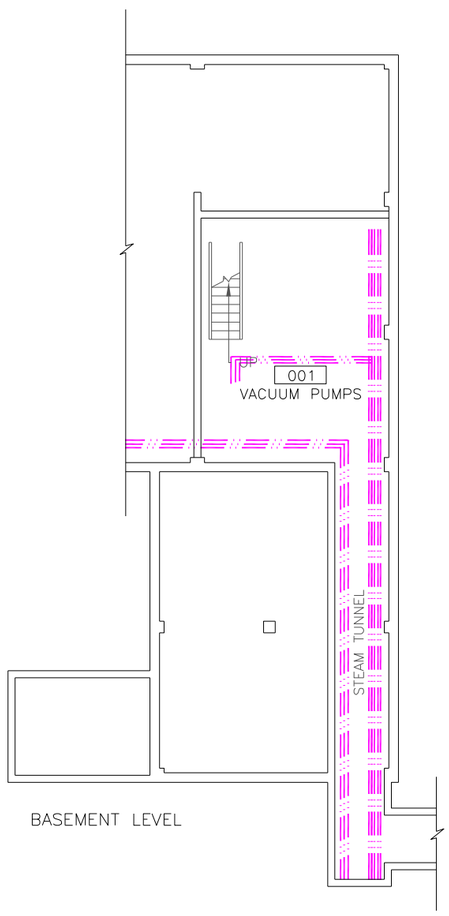
# Asbestos Sample Locations - All Levels

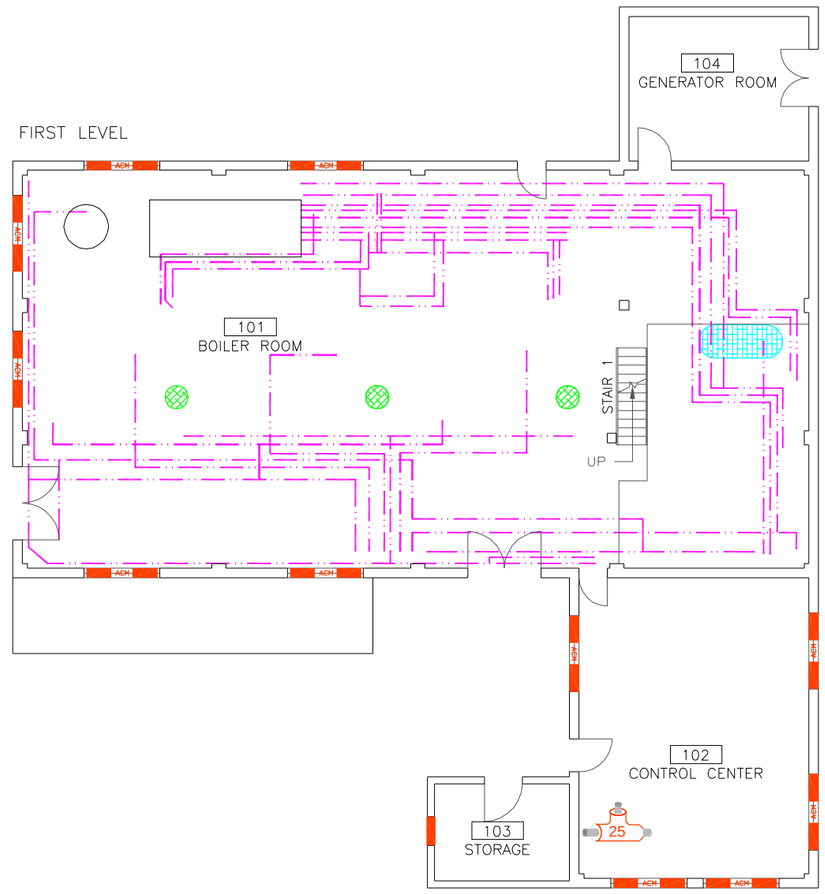
N

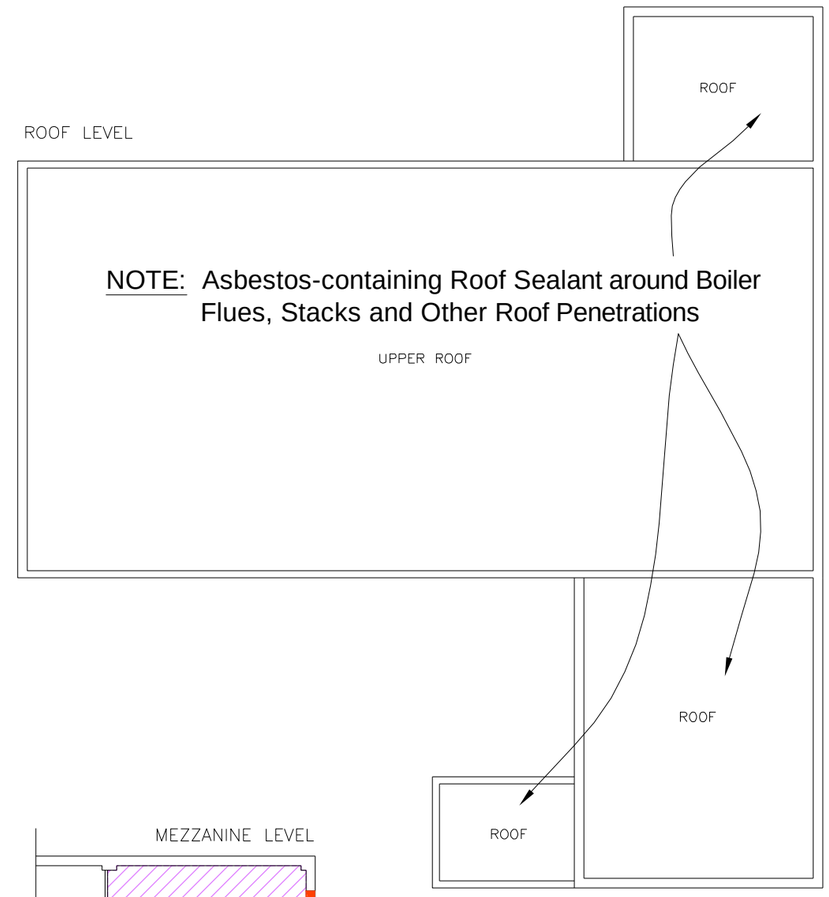
0 8' 16'

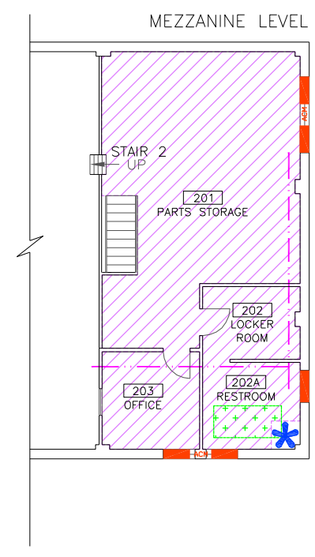
| | |
|---|---|
| PROJECT No: | 11P-A3138 |
| SHEET: | 1 SL |
| DRAWN BY: | S. Rahman |
| DATE: | 01-27-12 |
| REVISED BY: | |
| DATE: | |
| REVIEWED BY: | |
| DATE: | |

V:\- 11 Projects\VAMC\11P-A3138 VAMC Prescott Asb-LBP Insp\Drawings\SR_VA Asbestos Survey CAD\2004\11P-A3138-2-18-12\11P-A3138-Bldg 111.dwg, AllFls, SL, 2/20/2012 10:15:59 AM, mkeb




## Explanation:

- Asbestos-containing Straight Pipe Runs, Elbows and Joints (6"O.D. to 12"O.D.)
- Asbestos-containing Boiler Stack / Flue Insulation
- Asbestos-containing Tank Insulation (Condensate)
- Asbestos-containing Pipe Elbows and Joints
- Asbestos-containing Pipe Insulation Debris in Mezzanine
- Asbestos-containing Exterior Window Caulking
- Asbestos-containing Floor Tile and Adhesive
- Assumed asbestos-containing ceramic tile grout and/or adhesive on wall and/or floor

IHI ENVIRONMENTAL
4527 North 16th St. #105
Phoenix, AZ 85016
602.776.0300
phoenix@ihi-env.com

Department of Veterans Affairs
Northern Arizona Veterans Affairs Health Care System (NAVAHCS)
Boiler Plant - Building 111
Prescott, Arizona

ACM Material Locations Map

N

0 8' 16'

| | |
|---|---|
| PROJECT No: | 11P-A3138 |
| SHEET: | 1 ML |
| DRAWN BY: | S. Rahman |
| DATE: | 02-06-12 |
| REVISED BY: | MBradley |
| DATE: | 3-16-12 |
| REVIEWED BY: | |
| DATE: | |

V:\-11 Projects\VAMC\11P-A3138 VAMC Prescott Asb-LBP Insp\Drawings\SR_VA Asbestos Survey CAD\2004\11P-A3138-Bldg 111.dwg, AllFirs-ML, 3/16/2012 8:09:05 AM, mkeb

# Appendix C

# Laboratory Analytical Results

# CHAIN OF CUSTODY

www.EMLabPK.com

**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 SERVIC

000878523

## CONTACT INFORMATION

Company: D H Environmental
Contact: R. Pawloski
Phone: 602-776-0300
Address: Phoenix, AZ
Special Instructions: VA Hospital Special Price Terms

## PROJECT INFORMATION

Project ID: 11P-A3138
Project Desc.: NAVAHCS - Bldg 111
Project Zip Code:
Sampling Date & Time: 1/18/12
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 | 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) | Quant/Tray - Sewage Screen | Asbestos Analysis - PCM Airborne Fiber Count (NIOSH 7400) | Asbestos Analysis - PLM (EPA method 600/R-93-116) | PCR (please specify test) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 111-001 | suspect ACM MATERIALS | B | STD | NA | NA | | | | | | | | | | | | | | | | X | |
| 111-002 | | | | | | | | | | | | | | | | | | | | | X | |
| 111-003 | | | | | | | | | | | | | | | | | | | | | X | |
| 111-004 | | | | | | | | | | | | | | | | | | | | | X | |
| 111-005 | | | | | | | | | | | | | | | | | | | | | X | |
| 111-006 | | | | | | | | | | | | | | | | | | | | | X | |
| 111-007 | | | | | | | | | | | | | | | | | | | | | X | |
| 111-008 | | | | | | | | | | | | | | | | | | | | | X | |
| 111-009 | | | | | | | | | | | | | | | | | | | | | X | |
| 111-010 | | | | | | | | | | | | | | | | | | | | | X | |
| 111-011 | | | | | | | | | | | | | | | | | | | | | X | |
| 111-012 | | | | | | | | | | | | | | | | | | | | | X | |

| SAMPLE TYPE CODES | | | |
|---|---|---|---|
| BC - BioCassette™ | ST - Spore Trap: Zefon, Allergenco, Burkard | T - Tape | D - Dust |
| A1S - Andersen | | SW - Swab | SO - Soil |
| SAS - Surface Air Sampler | P - Potable Water | B - Bulk | |
| CP - Contact Plate | NP - Non-Potable Water | O - Other: | |

| RELINQUISHED BY | DATE & TIME | RECEIVED BY | DATE & TIME |
|---|---|---|---|
| [signature] | 1-18-12/1255 | R. Morrissey | 1-20-12 9:15 |

By submitting this Chain of Custody, you agree to be bound by the terms and conditions set forth at http://www.emlab.com/s/main/servicetorms.html
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# Chain Of Custody

Project ID: BUILDING 111 [redacted] 11P-A3138

000878523

| Sample ID | Description | PLM | 400 Pt Count | TEM | TAT |
|---|---|---|---|---|---|
| 111-013 | SUSPECT ACM MATERIALS | X | | | STD |
| 111-014 | | | | | |
| 111-015 | | | | | |
| 111-016 | | | | | |
| 111-017 | | | | | |
| 111-018 | | | | | |
| 111-019 | | | | | |
| 111-020 | | | | | |
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| 111-037 | | | | | |
| 111-038 | | | | | |
| 111-039 | | | | | |
| 111-040 | | | | | |
| 111-041 | | | | | |
| 111-042 | | | | | |

A Marisco
1-20-12
9:15

# Chain Of Custody

Project ID: BUILDING III
IIP - A3138

000878523

| Sample ID | Description | PLM | 400 Pt Count | TEM | TAT |
|---|---|---|---|---|---|
| III-043 | SUSPECT ACM MATERIALS | x | | | STD |
| III-044 | | | | | |
| III-045 | | | | | |
| III-046 | | | | | |
| III-047 | | | | | |
| III-048 | | | | | |
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| III-068 | | | | | |
| III-069 | | | | | |
| III-070 | | | | | |
| III-071 | | | | | |
| III-072 | | | | | |

A. Morissey
1-20-12
9:15

# Chain Of Custody

Project ID: BUILDING 111 IIP-A3138

000878523

| Sample ID | Description | PLM | 400 Pt Count | TEM | TAT |
|---|---|---|---|---|---|
| 111-073 | SUSPECT ACM MATERIALS | X | | | STD |
| 111-074 | " " | X | | | X |
| 111-075 | " " | X | | | X |

A. Morissey
1-20-12
9:15

**EMLab P&K**

Report for:

**Mr. Rod Pawloski**
**IHI Environmental, Phoenix**
4527 N. 16th Street
Suite 105
Phoenix, AZ  85016

Regarding: Project: 11P-A3138; NAVAHCS-Bldg 111
EML ID: 878523

Approved by:

Technical Manager
Brandon Iledan

Dates of Analysis:
Asbestos-EPA Method 600/R-93/116: 01-25-2012

Service SOPs: Asbestos-EPA Method 600/R-93/116 (EPA-600/M4-82-020 (SOP 01264))

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 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.

Document Number: 200091 - Revision Number: 5

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(866) 465-6653 Fax (858) 569-5806 www.emlab.com

Client: IHI Environmental, Phoenix
C/O: Mr. Rod Pawloski
Re: 11P-A3138; NAVAHCS-Bldg 111

Date of Sampling: 01-18-2012
Date of Receipt: 01-20-2012
Date of Report: 01-25-2012

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

| | |
|---|---|
| **Total Samples Submitted:** | 75 |
| **Total Samples Analysed:** | 75 |
| **Total Samples with Layer Asbestos Content > 1%:** | 17 |

### Location: 111-001, Suspect ACM Materials

Lab ID-Version‡: 3900047-1

| Sample Layers | Asbestos Content |
|---|---|
| Brown Mastic | ND |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-002, Suspect ACM Materials

Lab ID-Version‡: 3900048-1

| Sample Layers | Asbestos Content |
|---|---|
| Brown Mastic | ND |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-003, Suspect ACM Materials

Lab ID-Version‡: 3900049-1

| Sample Layers | Asbestos Content |
|---|---|
| Brown Mastic | ND |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-004, Suspect ACM Materials

Lab ID-Version‡: 3900050-1

| Sample Layers | Asbestos Content |
|---|---|
| Tan Ceiling Tile | ND |
| Brown Mastic | ND |
| **Composite Non-Asbestos Fibrous Content:** | 40% Cellulose<br>30% Glass Fibers |
| **Sample Composite Homogeneity:** | Good |

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Client: IHI Environmental, Phoenix
C/O: Mr. Rod Pawloski
Re: 11P-A3138; NAVAHCS-Bldg 111

Date of Sampling: 01-18-2012
Date of Receipt: 01-20-2012
Date of Report: 01-25-2012

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

### Location: 111-005, Suspect ACM Materials

Lab ID-Version‡: 3900051-1

| Sample Layers | Asbestos Content |
|---|---|
| Tan Ceiling Tile | ND |
| Brown Mastic | ND |
| **Composite Non-Asbestos Fibrous Content:** | 40% Cellulose<br>30% Glass Fibers |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-006, Suspect ACM Materials

Lab ID-Version‡: 3900052-1

| Sample Layers | Asbestos Content |
|---|---|
| Tan Ceiling Tile | ND |
| Brown Mastic | ND |
| **Composite Non-Asbestos Fibrous Content:** | 40% Cellulose<br>30% Glass Fibers |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-007, Suspect ACM Materials

Lab ID-Version‡: 3900053-1

| Sample Layers | Asbestos Content |
|---|---|
| Gray Floor Tile | ND |
| Tan Mastic | ND |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-008, Suspect ACM Materials

Lab ID-Version‡: 3900054-1

| Sample Layers | Asbestos Content |
|---|---|
| Gray Floor Tile | ND |
| Tan Mastic | ND |
| **Sample Composite Homogeneity:** | Good |

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Client: IHI Environmental, Phoenix
C/O: Mr. Rod Pawloski
Re: 11P-A3138; NAVAHCS-Bldg 111

Date of Sampling: 01-18-2012
Date of Receipt: 01-20-2012
Date of Report: 01-25-2012

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

### Location: 111-009, Suspect ACM Materials

Lab ID-Version‡: 3900055-1

| Sample Layers | Asbestos Content |
|---|---|
| Gray Floor Tile | ND |
| Tan Mastic | ND |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-010, Suspect ACM Materials

Lab ID-Version‡: 3900056-1

| Sample Layers | Asbestos Content |
|---|---|
| Gray Caulk | ND |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-011, Suspect ACM Materials

Lab ID-Version‡: 3900057-1

| Sample Layers | Asbestos Content |
|---|---|
| Gray Caulk | ND |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-012, Suspect ACM Materials

Lab ID-Version‡: 3900058-1

| Sample Layers | Asbestos Content |
|---|---|
| Gray Caulk | ND |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-013, Suspect ACM Materials

Lab ID-Version‡: 3900059-1

| Sample Layers | Asbestos Content |
|---|---|
| Off-White Compound | ND |
| **Sample Composite Homogeneity:** | Good |

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Re: 11P-A3138; NAVAHCS-Bldg 111

Date of Sampling: 01-18-2012
Date of Receipt: 01-20-2012
Date of Report: 01-25-2012

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

### Location: 111-014, Suspect ACM Materials

Lab ID-Version‡: 3900060-1

| Sample Layers | Asbestos Content |
|---|---|
| White Compound | ND |
| Off-White Cementitious Material | ND |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-015, Suspect ACM Materials

Lab ID-Version‡: 3900061-1

| Sample Layers | Asbestos Content |
|---|---|
| White Compound | ND |
| Off-White Cementitious Material | ND |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-016, Suspect ACM Materials

Lab ID-Version‡: 3900062-1

| Sample Layers | Asbestos Content |
|---|---|
| White Compound | ND |
| Off-White Cementitious Material | ND |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-017, Suspect ACM Materials

Lab ID-Version‡: 3900063-1

| Sample Layers | Asbestos Content |
|---|---|
| Gray Cementitious Material | ND |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-018, Suspect ACM Materials

Lab ID-Version‡: 3900064-1

| Sample Layers | Asbestos Content |
|---|---|
| Gray Cementitious Material | ND |
| **Sample Composite Homogeneity:** | Good |

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Client: IHI Environmental, Phoenix
C/O: Mr. Rod Pawloski
Re: 11P-A3138; NAVAHCS-Bldg 111

Date of Sampling: 01-18-2012
Date of Receipt: 01-20-2012
Date of Report: 01-25-2012

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

### Location: 111-019, Suspect ACM Materials

Lab ID-Version‡: 3900065-1

| Sample Layers | Asbestos Content |
|---|---|
| Gray Cementitious Material | ND |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-020, Suspect ACM Materials

Lab ID-Version‡: 3900066-1

| Sample Layers | Asbestos Content |
|---|---|
| Gray Cementitious Material | ND |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-021, Suspect ACM Materials

Lab ID-Version‡: 3900067-1

| Sample Layers | Asbestos Content |
|---|---|
| Gray Cementitious Material | ND |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-022, Suspect ACM Materials

Lab ID-Version‡: 3900068-1

| Sample Layers | Asbestos Content |
|---|---|
| Gray Cementitious Material | ND |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-023, Suspect ACM Materials

Lab ID-Version‡: 3900069-1

| Sample Layers | Asbestos Content |
|---|---|
| Off-White Cementitious Material | ND |
| **Sample Composite Homogeneity:** | Good |

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Date of Sampling: 01-18-2012
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Date of Report: 01-25-2012

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

### Location: 111-024, Suspect ACM Materials

Lab ID-Version‡: 3900070-1

| Sample Layers | Asbestos Content |
|---|---|
| Off-White Cementitious Material | ND |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-025, Suspect ACM Materials

Lab ID-Version‡: 3900071-1

| Sample Layers | Asbestos Content |
|---|---|
| Gray Cementitious Material | ND |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-026, Suspect ACM Materials

Lab ID-Version‡: 3900072-1

| Sample Layers | Asbestos Content |
|---|---|
| Gray Cementitious Material | ND |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-027, Suspect ACM Materials

Lab ID-Version‡: 3900073-1

| Sample Layers | Asbestos Content |
|---|---|
| Gray Cementitious Material | ND |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-028, Suspect ACM Materials

Lab ID-Version‡: 3900074-1

| Sample Layers | Asbestos Content |
|---|---|
| Gray Cementitious Material | ND |
| **Sample Composite Homogeneity:** | Good |

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Client: IHI Environmental, Phoenix
C/O: Mr. Rod Pawloski
Re: 11P-A3138; NAVAHCS-Bldg 111

Date of Sampling: 01-18-2012
Date of Receipt: 01-20-2012
Date of Report: 01-25-2012

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

### Location: 111-029, Suspect ACM Materials

Lab ID-Version‡: 3900075-1

| Sample Layers | Asbestos Content |
|---|---|
| Gray Semi-Fibrous Material | 60% Chrysotile |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-030, Suspect ACM Materials

Lab ID-Version‡: 3900076-1

| Sample Layers | Asbestos Content |
|---|---|
| White Compound | ND |
| **Composite Non-Asbestos Fibrous Content:** | 5% Cellulose<br>5% Glass Fibers<br>5% Synthetic Fibers |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-031, Suspect ACM Materials

Lab ID-Version‡: 3900077-1

| Sample Layers | Asbestos Content |
|---|---|
| White Semi-Fibrous Material | ND |
| **Composite Non-Asbestos Fibrous Content:** | 60% Cellulose |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-032, Suspect ACM Materials

Lab ID-Version‡: 3900078-1

| Sample Layers | Asbestos Content |
|---|---|
| White Compound with Paint | ND |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-033, Suspect ACM Materials

Lab ID-Version‡: 3900079-1

| Sample Layers | Asbestos Content |
|---|---|
| White Insulation | ND |
| White Wrap with Silver Paint | ND |
| **Composite Non-Asbestos Fibrous Content:** | 60% Glass Fibers |
| **Sample Composite Homogeneity:** | Good |

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**EMLab P&K**
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(866) 465-6653 Fax (858) 569-5806 www.emlab.com

Client: IHI Environmental, Phoenix
C/O: Mr. Rod Pawloski
Re: 11P-A3138; NAVAHCS-Bldg 111

Date of Sampling: 01-18-2012
Date of Receipt: 01-20-2012
Date of Report: 01-25-2012

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

### Location: 111-034, Suspect ACM Materials

Lab ID-Version‡: 3900080-1

| Sample Layers | Asbestos Content |
|---|---|
| White Insulation | ND |
| White Wrap with Silver Paint | 15% Chrysotile |
| **Composite Non-Asbestos Fibrous Content:** | 60% Glass Fibers |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-035, Suspect ACM Materials

Lab ID-Version‡: 3900081-1

| Sample Layers | Asbestos Content |
|---|---|
| White Insulation | ND |
| White Wrap with Silver Paint | 15% Chrysotile |
| **Composite Non-Asbestos Fibrous Content:** | 60% Glass Fibers |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-036, Suspect ACM Materials

Lab ID-Version‡: 3900082-1

| Sample Layers | Asbestos Content |
|---|---|
| White Insulation | ND |
| White Wrap with Silver Paint | ND |
| **Composite Non-Asbestos Fibrous Content:** | 60% Glass Fibers |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-037, Suspect ACM Materials

Lab ID-Version‡: 3900083-1

| Sample Layers | Asbestos Content |
|---|---|
| White Insulation | 60% Amosite |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-038, Suspect ACM Materials

Lab ID-Version‡: 3900084-1

| Sample Layers | Asbestos Content |
|---|---|
| Gray Insulation | 50% Chrysotile |
| Gray Wrap | 15% Chrysotile |
| **Composite Non-Asbestos Fibrous Content:** | 30% Mineral wool |
| **Sample Composite Homogeneity:** | Good |

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

### Location: 111-039, Suspect ACM Materials

Lab ID-Version‡: 3900085-1

| Sample Layers | Asbestos Content |
|---|---|
| Gray Insulation | ND |
| Gray Wrap with Silver Paint | 15% Chrysotile |
| **Composite Non-Asbestos Fibrous Content:** | 45% Mineral wool |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-040, Suspect ACM Materials

Lab ID-Version‡: 3900086-1

| Sample Layers | Asbestos Content |
|---|---|
| Gray Insulation | ND |
| **Composite Non-Asbestos Fibrous Content:** | 80% Mineral wool |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-041, Suspect ACM Materials

Lab ID-Version‡: 3900087-1

| Sample Layers | Asbestos Content |
|---|---|
| Gray Insulation | ND |
| Gray Wrap with Silver Paint | 15% Chrysotile |
| **Composite Non-Asbestos Fibrous Content:** | 60% Cellulose |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-042, Suspect ACM Materials

Lab ID-Version‡: 3900088-1

| Sample Layers | Asbestos Content |
|---|---|
| Gray Insulation | ND |
| Gray Wrap with Silver Paint | 15% Chrysotile |
| **Composite Non-Asbestos Fibrous Content:** | 45% Mineral wool |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-043, Suspect ACM Materials

Lab ID-Version‡: 3900089-1

| Sample Layers | Asbestos Content |
|---|---|
| White Insulation | ND |
| White Wrap with Silver Paint | ND |
| **Composite Non-Asbestos Fibrous Content:** | 80% Glass Fibers |
| **Sample Composite Homogeneity:** | Good |

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

### Location: 111-044, Suspect ACM Materials

Lab ID-Version‡: 3900090-1

| Sample Layers | Asbestos Content |
|---|---|
| Gray Insulation | 50% Chrysotile |
| **Composite Non-Asbestos Fibrous Content:** | 20% Cellulose<br>20% Glass Fibers |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-045, Suspect ACM Materials

Lab ID-Version‡: 3900091-1

| Sample Layers | Asbestos Content |
|---|---|
| Gray Insulation | ND |
| Gray Wrap with Silver Paint | ND |
| **Composite Non-Asbestos Fibrous Content:** | 45% Mineral wool<br>30% Cellulose |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-046, Suspect ACM Materials

Lab ID-Version‡: 3900092-1

| Sample Layers | Asbestos Content |
|---|---|
| Gray Insulation | ND |
| Gray Wrap with Silver Paint | ND |
| **Composite Non-Asbestos Fibrous Content:** | 45% Mineral wool<br>30% Cellulose |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-047, Suspect ACM Materials

Lab ID-Version‡: 3900093-1

| Sample Layers | Asbestos Content |
|---|---|
| Gray Insulation | 20% Chrysotile |
| White Insulation | ND |
| Gray Wrap | ND |
| **Composite Non-Asbestos Fibrous Content:** | 40% Glass Fibers<br>20% Cellulose |
| **Sample Composite Homogeneity:** | Good |

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

### Location: 111-048, Suspect ACM Materials

Lab ID-Version‡: 3900094-1

| Sample Layers | Asbestos Content |
|---|---|
| Gray Insulation | 20% Chrysotile |
| Gray Wrap | ND |
| **Composite Non-Asbestos Fibrous Content:** | 45% Mineral wool<br>20% Glass Fibers |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-049, Suspect ACM Materials

Lab ID-Version‡: 3900095-1

| Sample Layers | Asbestos Content |
|---|---|
| Gray Insulation | 20% Chrysotile |
| Gray Wrap | ND |
| **Composite Non-Asbestos Fibrous Content:** | 45% Mineral wool<br>20% Glass Fibers |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-050, Suspect ACM Materials

Lab ID-Version‡: 3900096-1

| Sample Layers | Asbestos Content |
|---|---|
| Gray Insulation | 65% Chrysotile |
| Beige Wrap with Silver Paint | ND |
| **Composite Non-Asbestos Fibrous Content:** | 10% Cellulose |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-051, Suspect ACM Materials

Lab ID-Version‡: 3900097-1

| Sample Layers | Asbestos Content |
|---|---|
| Gray Insulation | 65% Chrysotile |
| Beige Wrap with Silver Paint | ND |
| **Composite Non-Asbestos Fibrous Content:** | 10% Cellulose |
| **Sample Composite Homogeneity:** | Good |

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

### Location: 111-052, Suspect ACM Materials

Lab ID-Version‡: 3900098-1

| Sample Layers | Asbestos Content |
|---|---|
| Gray Insulation | 35% Chrysotile |
| Beige Wrap with Silver Paint | ND |
| White Insulation | ND |
| **Composite Non-Asbestos Fibrous Content:** | 40% Glass Fibers<br>10% Cellulose |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-053, Suspect ACM Materials

Lab ID-Version‡: 3900099-1

| Sample Layers | Asbestos Content |
|---|---|
| Beige Insulation | ND |
| Beige Wrap with Silver Paint | ND |
| **Composite Non-Asbestos Fibrous Content:** | 50% Cellulose<br>25% Mineral wool |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-054, Suspect ACM Materials

Lab ID-Version‡: 3900100-1

| Sample Layers | Asbestos Content |
|---|---|
| Beige Insulation | ND |
| Beige Wrap with Silver Paint | ND |
| **Composite Non-Asbestos Fibrous Content:** | 50% Cellulose<br>25% Mineral wool |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-055, Suspect ACM Materials

Lab ID-Version‡: 3900101-1

| Sample Layers | Asbestos Content |
|---|---|
| Beige Insulation | ND |
| Beige Wrap with Silver Paint | ND |
| **Composite Non-Asbestos Fibrous Content:** | 50% Cellulose<br>25% Mineral wool |
| **Sample Composite Homogeneity:** | Good |

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

### Location: 111-056, Suspect ACM Materials

Lab ID-Version‡: 3900102-1

| Sample Layers | Asbestos Content |
|---|---|
| Beige Insulation | ND |
| Beige Wrap with Silver Paint | ND |
| **Composite Non-Asbestos Fibrous Content:** | 50% Cellulose<br>25% Mineral wool |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-057, Suspect ACM Materials

Lab ID-Version‡: 3900103-1

| Sample Layers | Asbestos Content |
|---|---|
| Beige Insulation | ND |
| Beige Wrap with Silver Paint | ND |
| **Composite Non-Asbestos Fibrous Content:** | 50% Cellulose<br>25% Mineral wool |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-058, Suspect ACM Materials

Lab ID-Version‡: 3900104-1

| Sample Layers | Asbestos Content |
|---|---|
| Gold Vermiculite Insulation | ND |
| **Composite Non-Asbestos Fibrous Content:** | 99% Vermiculite |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-059, Suspect ACM Materials

Lab ID-Version‡: 3900105-1

| Sample Layers | Asbestos Content |
|---|---|
| White Non-Fibrous Material | ND |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-060, Suspect ACM Materials

Lab ID-Version‡: 3900106-1

| Sample Layers | Asbestos Content |
|---|---|
| White Non-Fibrous Material | ND |
| **Sample Composite Homogeneity:** | Good |

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

### Location: 111-061, Suspect ACM Materials

Lab ID-Version‡: 3900107-1

| Sample Layers | Asbestos Content |
|---|---|
| White Caulk | ND |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-062, Suspect ACM Materials

Lab ID-Version‡: 3900108-1

| Sample Layers | Asbestos Content |
|---|---|
| Gray Caulk | 4% Chrysotile |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-063, Suspect ACM Materials

Lab ID-Version‡: 3900109-1

| Sample Layers | Asbestos Content |
|---|---|
| Gray Caulk | 4% Chrysotile |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-064, Suspect ACM Materials

Lab ID-Version‡: 3900110-1

| Sample Layers | Asbestos Content |
|---|---|
| Green Caulk | ND |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-065, Suspect ACM Materials

Lab ID-Version‡: 3900111-1

| Sample Layers | Asbestos Content |
|---|---|
| White Drywall | ND |
| White Compound with Paint | ND |
| **Composite Non-Asbestos Fibrous Content:** | 3% Cellulose |
| **Sample Composite Homogeneity:** | Moderate |

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

### Location: 111-066, Suspect ACM Materials

Lab ID-Version‡: 3900112-1

| Sample Layers | Asbestos Content |
|---|---|
| Dark Brown Compound | ND |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-067, Suspect ACM Materials

Lab ID-Version‡: 3900113-1

| Sample Layers | Asbestos Content |
|---|---|
| Dark Brown Compound | ND |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-068, Suspect ACM Materials

Lab ID-Version‡: 3900114-1

| Sample Layers | Asbestos Content |
|---|---|
| Dark Brown Compound | ND |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-069, Suspect ACM Materials

Lab ID-Version‡: 3900115-1

| Sample Layers | Asbestos Content |
|---|---|
| Brown Fibrous Material | ND |
| **Composite Non-Asbestos Fibrous Content:** | 97% Cellulose |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-070, Suspect ACM Materials

Lab ID-Version‡: 3900116-1

| Sample Layers | Asbestos Content |
|---|---|
| Brown Fibrous Material | ND |
| Black Roofing Shingle | ND |
| Black Roofing Felt | ND |
| Black Roofing Material | ND |
| **Composite Non-Asbestos Fibrous Content:** | 60% Cellulose<br>10% Glass Fibers |
| **Sample Composite Homogeneity:** | Good |

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

### Location: 111-071, Suspect ACM Materials

Lab ID-Version‡: 3900117-1

| Sample Layers | Asbestos Content |
|---|---|
| Brown Fibrous Material | ND |
| Black Roofing Shingle | ND |
| Black Roofing Felt | ND |
| Black Roofing Material | ND |
| **Composite Non-Asbestos Fibrous Content:** | 60% Cellulose<br>10% Glass Fibers |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-072, Suspect ACM Materials

Lab ID-Version‡: 3900118-1

| Sample Layers | Asbestos Content |
|---|---|
| Brown Fibrous Material | ND |
| Black Roofing Shingle | ND |
| Black Roofing Felt | ND |
| Black Roofing Material | ND |
| **Composite Non-Asbestos Fibrous Content:** | 60% Cellulose<br>10% Glass Fibers |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-073, Suspect ACM Materials

Lab ID-Version‡: 3900119-1

| Sample Layers | Asbestos Content |
|---|---|
| Black Semi-Fibrous Material | ND |
| **Composite Non-Asbestos Fibrous Content:** | 4% Glass Fibers<br>2% Cellulose |
| **Sample Composite Homogeneity:** | Good |

### Location: 111-074, Suspect ACM Materials

Lab ID-Version‡: 3900120-1

| Sample Layers | Asbestos Content |
|---|---|
| Black Semi-Fibrous Material | ND |
| **Composite Non-Asbestos Fibrous Content:** | 4% Glass Fibers<br>2% Cellulose |
| **Sample Composite Homogeneity:** | Good |

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

**Location: 111-075, Suspect ACM Materials**

Lab ID-Version‡: 3900121-1

| Sample Layers | Asbestos Content |
|---|---|
| Black Semi-Fibrous Material | ND |
| **Composite Non-Asbestos Fibrous Content:** | 4% Glass Fibers<br>2% Cellulose |
| **Sample Composite Homogeneity:** | Good |

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2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

**EMLab P&K, San Bruno**
**Simone Singh**
**1150 Bayhill Dr. Ste 100**
**San Bruno, CA 94066**

**Re:** QuanTEM ID 204838

QuanTEM appreciates the opportunity to provide analytical testing services to you. Attached are your reports and other supporting documentation for the above referenced project.

Thank you for making QuanTEM your lab of choice. If you have any question concerning this or other reports please feel free to contact us at 800-822-1650.

We continually work to improve our service. Help us out by providing feed back on your experience at www.QuanTEM.com. Click on Service Survey and fill out the form. We look forward to hearing from you.

Respectfully,
QuanTEM Laboratories, LLC.

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# Asbestos Analysis Report
## Gravimetric Reduction

QuanTEM Lab No. 204838
Acct. No: B840

Client: EMLab P&K

Date Received 2/27/2012
Received By: Barbara Holder
Date Analyzed: 2/28/2012
Analyzed By: Leigh Armstrong
Methodology: TEM Chatfield

Project: EMLab ID: 878523
Project Location: NAVAHCS-Bldg 111
Project Number: 11P-A3138

| QuanTEM Sample ID | Client Sample ID | Color / Description | Asbestos Type | Asbestos Wt % |
|---|---|---|---|---|
| 1 | 111-001 | Brown Mastic | NAD | < 0.048% |
| 2 | 111-004 | Brown Mastic | NAD | < 0.056% |
| 3 | 111-007 | White Floor Tile & Mastic | Chrysotile | 16.267% |
| 4 | 111-070 | Black & Brown Roofing | NAD | < 0.018% |
| 5 | 111-073 | Black Tar | Chrysotile | 4.175% |

Leigh Armstrong

2/28/2012
Date

NVLAP Lab Code: 101959. This report relates only to the specific items tested. This report may not be used to claim product endorsement by NVLAP or any other agency of the US Government. This report only be reproduced in full.

QUANTEM LABORATORIES

www.QuanTEM.com

# ASBESTOS CHAIN OF CUSTODY

2033 Heritage Park Drive, Oklahoma City, OK 73120-7502
(800) 822-1650 • (405) 755-7272 • Fax: (405) 755-2058



**LEGAL DOCUMENT - PLEASE PRINT LEGIBLY**

| For Lab Use Only | |
|---|---|
| Lab No. 204838 | |
| Accept | Reject |

| Contact Information | | | |
|---|---|---|---|
| Company: | EMLab P&K, San Bruno | Phone: | (866) 888-6653 |
| Contact: | Simone Singh | Cell Phone: | |
| Account #: | | E-mail: | ssingh@emlabpk.com |

| Project Information | |
|---|---|
| Project Name: | EMLab ID: 878523 |
| Project Location: | NAVAHCS-Bldg 111 |
| Project ID: | 11P-A3138 |

| Report Results (☑ one box) | |
|---|---|
| ☑ | QuanTEM Website |
| ☑ | Other _____ |

| Sampled By: | Name: | Date: |
|---|---|---|
| | | |

| RELINQUISHED BY | DATE & TIME | VIA | RECEIVED BY | DATE & TIME |
|---|---|---|---|---|
| B. Hedan | 2/23/12 | Fed Ex | [illegible] 10[illegible] | 2-27-12 |

**REQUESTED SERVICES (Please ☑ the Appropriate Boxes)**

| PLM | |
|---|---|
| ☐ | Bulk Analysis (EPA 600/R-93/116) |
| ☐ | 400 Point Count |
| ☐ | 1000 Point Count |
| ☐ | Gravimetric Preparation |
| ☐ | Particle ID |

| PLM | |
|---|---|
| ☐ | Vermiculite Attic Insulation (EPA 600/R-04/004) |
| ☐ | Other |

| PCM | |
|---|---|
| ☐ | NIOSH 7400 |

| TEM | |
|---|---|
| ☐ | Air- AHERA |
| ☐ | Air- NIOSH 7402 |
| ☐ | Air- ISO 10312 |
| ☐ | Drinking Water- EPA 100.2 |
| ☐ | Waste Water- EPA 600/4-83-043 |

| TEM | |
|---|---|
| ☐ | Bulk- Presence / Absence EPA600/R-93/116 |
| ☑ | Bulk- Quantitative [weight%]- Chatfield |
| ☐ | Dust- Presence / Absence |
| ☐ | Dust- Quantitative [fibers/sq.cm]- ASTM D5755 |
| ☐ | Other |

| TURNAROUND TIME | |
|---|---|
| ☐ | Rush |
| ☐ | Same Day |
| ☐ | 24 - Hour |
| ☑ | 3 - Day |
| ☐ | 5 - Day |

| No. | Sample ID (10 Characters Max) | ☑ To Be Analyzed | Color | Description | Volume / Area (as applicable) | Comments / Notes |
|---|---|---|---|---|---|---|
| 1 | 111-001 | ☑ | | | n/a | Mastic |
| 2 | 111-004 | ☑ | | | n/a | Ceiling Tile Mastic ONLY |
| 3 | 111-007 | ☑ | | | n/a | Floor Tile AND Mastic |
| 4 | 111-070 | ☑ | | | n/a | Roofing |
| 5 | 111-073 | ☑ | | | n/a | Roof Mastic |
| 6 | | ☐ | | | | |
| 7 | | ☐ | | | | |
| 8 | | ☐ | | | | |
| 9 | | ☐ | | | | |
| 10 | | ☐ | | | | |

**SATURDAY SAMPLE DELIVERY - CALL TO SCHEDULE** • Use this address for Saturday Delivery only: 4220 N. Santa Fe Ave., Oklahoma City, OK 73105-8517 • Mark Package "Hold for Saturday Pickup"

# Appendix D

# Inspector Certificates

UNIVERSITY OF UTAH
SCHOOL OF MEDICINE

Rocky Mountain Center for
Occupational & Environmental Health

Department of Family & Preventive Medicine
391 Chipeta Way, Suite C
Salt Lake City UT 84108
Phone: (801) 581-4055
Fax: (801) 585-5275

*THIS CERTIFIES THAT*

# Seifollah Amir Karamati

*HAS COMPLETED THE REQUISITE TRAINING FOR ASBESTOS ACCREDITATION UNDER TSCA TITLE II*

ATTENDED AN ANNUAL REFRESHER COURSE IN

PRACTICES AND PROCEDURES IN ASBESTOS ABATEMENT

## Asbestos Inspector Refresher

California Course Approval Number #CA-004-06

DATE: December 9, 2011
NUMBER: 110834
EXPIRES: December 9, 2012
CREDITS: 0.40 CEUs / 0.67 ABIH CM Points

Connie Crandall

Connie Crandall, MBA, MA
Continuing Education Director