

**APPLIED  
LABORATORY  
SERVICES**

## **ASBESTOS BUILDING INSPECTION**

CONDUCTED BY:

**APPLIED LABORATORY SERVICES, L.L.C.  
4101 GRANBY STREET, SUITE 404  
NORFOLK, VIRGINIA 23504**

AT

**WINDSOR CASTLE AND ASSOCIATED STRUCTURES  
301 JERICO ROAD  
SMITHFIELD, VA 23430**

FOR

**THE TOWN OF SMITHFIELD  
P. O. BOX 246  
SMITHFIELD, VA 23431**

Report Number: ALS 15-10733  
10 February 2015

## SIGNATURE PAGE

At the request of the Town of Smithfield, an Asbestos Inspection was conducted by Applied Laboratory Services, L.L.C., (ALS) on 2-3 February 2015 of the structures located at 301 Jericho Road, Smithfield, VA 23430.

The Asbestos Inspection was performed by:

  
Christina Haworth

11 February 2015  
Date

Virginia Asbestos Building Inspector; License #3303-003922

The report was reviewed by:

  
Paul Thomas

11 February 2015  
Date

Virginia Asbestos Building Inspector; License #3303-002215  
Virginia Asbestos Management Planner; License #3304-001330

If there are any questions concerning this report, or if we may be of further assistance to your office, please feel free to contact our office at (757) 623-0121.

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\* ALL APPENDICES INCLUDE ANALYTICAL RESULTS AND SAMPLE LOCATION DRAWINGS WHERE APPLICABLE

## SUMMARY

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The inspection was conducted for the purpose of identifying physically accessible building materials suspected of containing asbestos.

The inspection was conducted on the interiors and exteriors of multiple structures present at 301 Jericho Road, Smithfield, Virginia. Destructive sampling techniques were not utilized in the Manor House or historic outbuildings to maintain their historic values. Only building materials that could be regularly access were sampled and evaluated in these structures. Bulk samples collected were subsequently analyzed by Polarized Light Microscopy (PLM) using dispersion staining techniques and separated into layers.

The Manor House is a two-story house with a below-grade basement, constructed of wood with a shingle roof. The Caretaker's House is a two-story house constructed of wood with a tin roof. Of the outbuildings, the 18<sup>th</sup> Century Barn, Crib, East and West Peanut Barns, Pump House and Machinery Cover, Farm Office, and Corn Crib are of wooden construction with tin roofs. The Outside Kitchen is constructed of wood with a cedar shake roof, as is the carport directly adjacent to the Outside Kitchen. The Pole Barn is constructed of metal sides and a tin roof.

A total of seventy-seven (76) bulk samples were collected of suspect building materials for all structures. Suspected Asbestos Containing Materials (ACMs) sampled on the interior of structures included flooring materials, sink mastics, wall plaster, ceiling plaster, drywall, fireplace mortar, blown-in insulation, and batt insulation. Exterior suspected ACMs included window caulk and glazing, silver coating on roofs, stucco surfacing material, and shingle and tar paper sublayers. Due to multiple individual layers within samples, a total of one hundred and twelve (112) analyses were performed on the samples from the various structures.

**Friable and non-friable Asbestos Containing Materials were identified following the inspection and subsequent PLM analysis of bulk samples collected from the site.** For the specific location, quantity, condition, and percentage of ACMs identified during the inspection, refer to Table I of this report. The appendices of this report contain sample location diagrams denoting the specific location of each sample of suspected ACM and the laboratory analytical results. Please note that this inspection did not employ destructive sampling techniques due to the historical nature of this site. Materials that could not be physically assessed without utilizing significantly destructive sampling techniques were not evaluated. If, during renovation and/or demolition activities, suspect materials are encountered, it is strongly recommended that those materials in question be tested for asbestos prior to their disturbance.

**LIST OF ASBESTOS CONTAINING MATERIALS  
TABLE I**

***MANOR HOUSE INTERIOR***

Sample #	Description	Location	Friability	Type & % Condition	Estimated Quantity
1 Layer 1	Sheet flooring, brick pattern	Basement Foyer	NF	10% Chrysotile Good	742 SF
2 Layer 1	Sheet flooring, brick pattern	Storage 3	NF	10% Chrysotile Significantly Damaged	Refer to #1
3 Layer 1	Sheet flooring, brick pattern	Closet, Storage 4	NF	10% Chrysotile Damaged	Refer to #1
6	Wall plaster over brick	Storage 3	F	2% Chrysotile Significantly Damaged	512 SF
11	Sheet flooring, cobblestone pattern	Back Foyer	NF	20% Chrysotile Good	12 SF
12	Sheet flooring, tile pattern	Kitchen	NF	15% Chrysotile Good	208 SF
21	Sheet flooring, white	Second floor restroom	NF	10% Chrysotile Good	40 SF

***CARETAKER'S HOUSE INTERIOR***

Sample #	Description	Location	Friability	Type & % Condition	Estimated Quantity
4 Layer 1	Wall Plaster	Living Room 2	F	<1% Anthophyllite Significantly Damaged	4000 SF
8 Layer 1	Ceiling Plaster	Kitchen	F	2% Chrysotile Significantly Damaged	1350 SF
11 Layer 1	Sheet Flooring Sublayer	2 <sup>nd</sup> Floor Restroom	NF	20% Chrysotile Damaged	63 SF

***CARETAKER'S HOUSE EXTERIOR***

Sample #	Description	Location	Friability	Type & % Condition	Estimated Quantity
20	Silver Coat and Associated Black Tar	Roof	NF	2-5% Chrysotile Significantly Damaged	1500 SF

***18<sup>TH</sup> CENTURY BARN EXTERIOR***

Sample #	Description	Location	Friability	Type & % Condition	Estimated Quantity
1	Silver Coat	Roof	NF	2% Chrysotile Good	1500 SF
2	Silver Coat	Roof	NF	2% Chrysotile Good	Refer to #1

**CRIB EXTERIOR**

Sample #	Description	Location	Friability	Type & % Condition	Estimated Quantity
1	Silver Coat	Roof	NF	2% Chrysotile Good	1300 SF
2	Silver Coat	Roof	NF	2% Chrysotile Good	Refer to #1
3	Silver Coat	Roof	NF	2% Chrysotile Good	Refer to #1

**WEST PEANUT BARN EXTERIOR**

Sample #	Description	Location	Friability	Type & % Condition	Estimated Quantity
1	Silver Coat	Roof	NF	2% Chrysotile Good	1500 SF
2	Silver Coat	Roof	NF	2% Chrysotile Good	Refer to #1

**EAST PEANUT BARN EXTERIOR**

Sample #	Description	Location	Friability	Type & % Condition	Estimated Quantity
1	Silver Coat	Roof	NF	2% Chrysotile Good	1500 SF
2	Silver Coat	Roof	NF	2% Chrysotile Good	Refer to #1

**CORN CRIB EXTERIOR**

Sample #	Description	Location	Friability	Type & % Condition	Estimated Quantity
1	Silver Coat	Roof	NF	2% Chrysotile Good	500 SF
2	Silver Coat	Roof	NF	2% Chrysotile Good	Refer to #1

**POLE BARN EXTERIOR**

Sample #	Description	Location	Friability	Type & % Condition	Estimated Quantity
1	Silver Coat	Roof	NF	2% Chrysotile Good	2100 SF
2	Silver Coat	Roof	NF	2% Chrysotile Good	Refer to #1

**OFFICE BUILDING INTERIOR**

Sample #	Description	Location	Friability	Type & % Condition	Estimated Quantity
1	Sheet Flooring, Green	Main Room	NF	20% Chrysotile Damaged	256 SF

**KEY:**

SF = Square Feet

LF = Linear Feet

## **INSPECTION TECHNIQUES**

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The inspection was comprised of seven parts:

1. Reviewing the results of any previous investigations for ACM and inspecting building records, which were made available for our evaluation.
2. Visual inspection of readily accessible spaces within the specified areas of the building. Documenting the physical description and location of suspect ACM.
3. Testing all specified surfaces for friability and determining the condition of suspect materials.
4. Sampling and documentation of observable suspect friable or non-friable materials by Environmental Protection Agency guidelines.
5. Recording assessment information.
6. Completing the appropriate laboratory analyses.
7. Preparing the report.

Analytical results of the inspection are outlined in Appendix A. Please note, in the absence of sample collection and analyses, OSHA's asbestos standard identifies some materials as being presumed asbestos-containing materials (PACM). PACM includes any thermal system insulation (TSI), any surfacing material, and any resilient flooring found in buildings constructed prior to 1980.

This inspection employed destructive sampling techniques therefore all areas which could be inspected by such techniques were evaluated. However the possibility of non-accessible materials may be present throughout this property, if during demolition or renovation activities, suspect materials are encountered that were not previously inspected, it is strongly advisable that said materials be analyzed for asbestos content prior to their disturbance. Due to being physically or visually inaccessible, the following areas were excluded from this inspection report:

1. The interior of all mechanical equipment.
2. The interior of all electrical equipment.
3. The interior of all HVAC equipment.

## **ANALYSIS AND LABORATORY INFORMATION**

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### **TESTING LABORATORIES**

Applied Laboratory Services, L.L.C., participates and is proficient in the National Institute of Standards and Technology (NIST) Proficiency Test for bulk analysis. In addition to this program Applied Laboratory Services, L.L.C., compares their performance by polarized light microscopy (PLM) with that of other laboratories and maintains an in-house quality control/quality assurance program. The intra/interlaboratory programs serve to monitor all asbestos analysts and continually test their skills. In conjunction with that, ten percent of the bulk samples analyzed are to be reanalyzed monthly and statistical data maintained on the subsequent results, to include ratings of each analyst's performance. These samples are blind unknowns to the analyst, but their true compositions are known to other members of the laboratory in order to compare results.

### **QUALITATIVE ASSESSMENT METHOD**

Samples are first viewed separately under a stereomicroscope for the presence of observable fibers. A portion of the sample is then mounted on a slide in a liquid of known refractive index. The analyst then utilizes optical properties and identification methods including, but not limited to, morphological characteristics, angles of extinction, sign of elongation, and dispersion staining colors to verify the presence/absence of asbestos.

### **QUANTITATIVE ASSESSMENT METHOD**

The analyst expresses an estimate of fibrous and non-fibrous materials as an area percent of all material present. Since the distribution of material will not be homogenous on the slide, the analyst combines quantitative estimates from both the gross and microscopic examinations. This estimation method is in accordance with the Asbestos Hazard Emergency Response Act (AHERA) regulations (40 CFR Part 763) and has been successfully applied to the analysis of EPA Bulk Sample Analysis Quality Assurance Program samples.

### **LABORATORY RESULTS**

The laboratory results of each sample can be obtained from Appendix A of this report. The analytical results form identifies the types of asbestos contained within a sample and the nature of other fibrous materials. These "other" material components include binders, fillers, and may include forms of asbestos other than chrysotile or amosite.

## APPLICABLE ASBESTOS REGULATIONS

Asbestos presents a significant risk to human health as a result of air emissions from one or more sources. As such, it is considered a hazardous air pollutant and is subject to EPA regulations under the "National Emission Standards for Hazardous Air Pollutants" (NESHAP) which was promulgated as a result of Section 112 of the Clean Air Act (CAA).

The Asbestos NESHAP rule makes a distinction between an ACM that would readily release asbestos fibers when damaged or disturbed, described as "Friable", and an ACM that is unlikely to result in significant fiber release, described as "Non-friable". A dry, ACM that can be crumbled, pulverized, or reduced to powder by hand pressure is considered Friable. A Non-friable ACM cannot be crumbled, pulverized, or reduced to powder by hand pressure.

Friable ACMs include TSI and surfacing materials which have been applied by spraying or trowling.

Non-friable ACMs can be further categorized as Category I or Category II. Category I Non-friable materials include any asbestos-containing packings, gaskets, resilient floor coverings or asphalt roofing products which contain more than 1 percent asbestos. Category II Non-friable materials include any asbestos-containing materials other than those listed as Category I.

Regulated Asbestos-Containing Material (RACM) is:

- X friable asbestos material,
- X Category I non-friable ACM that has become friable,
- X Category I non-friable ACM that will be or has been subjected to sanding, grinding, cutting or abrading, or
- X Category II non-friable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the materials in the course of demolition or renovation operations.

When joint compound and/or tape is applied to wallboard it becomes an integral part of the wallboard and in effect becomes one material forming a wall system (5 Jan. 1994, Federal Register, NESHAP Clarification). If the analysis of a composite sample shows an asbestos content of greater than one percent and at least 160 square feet of the wall system is involved in demolition or renovation activities, the activities would be subject to the asbestos NESHAP.

The Occupational Safety and Health Administration (OSHA) has asbestos standards which protect the health of employees. Under these standards, the building/facility owner may be required to notify tenants, employees, or subcontractors of the presence, location, and quantity of ACM or PACM at the work sites in their buildings and facilities.

In addition, the standards separate work involving asbestos into four (4) classes of activities. Each class is associated with increasing potential for exposures and is matched with increasingly stringent control requirements:

- Class I **Removal Activities** involving TSI and/or Surfacing ACM.
- Class II **Removal Activities** involving ACM which is neither TSI and/or Surfacing ACM. This includes, but is not limited to, materials such as flooring and roofing materials.
- Class III **Repair and Maintenance Activities**, where ACM (any type) may be disturbed.
- Class IV **Maintenance and Custodial Activities** during which employees contact ACM and/or in which the employee is required to clean up waste and debris containing ACM.

Various interpretations of OSHA regulations have been made concerning joint compound. For example, joint compound has been interpreted to be a surfacing material. However, the Virginia equivalent of the OSHA does not adhere to this interpretation. In their view, the joint compound should be treated according to the NESHAP guidelines. However, caution should be taken to prevent sanding of the material during any renovation or demolition activities.

All Class I, II, and III asbestos work must be conducted within regulated areas. Each of these asbestos operations have engineering controls and work practices which are required. Different levels of respiratory protection and employee training are also required, dependent on the Class of activities.

Once a material has been identified as an ACM, recommendations are made based on the type of material and the condition of the material. The recommendations are based on the following table:

<b>Table II Recommendations List</b>
1. Required and recommended removal methods for CLASS I removals, which involve Thermal Systems Insulation and/or Surfacing ACM/PACM, when inside of a building.
2. Required and recommended removal methods for CLASS I removals, which involve Thermal Systems Insulation and/or Surfacing ACM/PACM, when outside of a building.
3. Required and recommended removal methods for CLASS II removals. This involves ACM/PACM which is neither Thermal Systems Insulation and/or Surfacing ACM/PACM. This includes, but is not limited to, the removal of asbestos-containing wallboard, floor tile and sheeting, roofing and siding shingles, and built-up roofing.

4. Recommended removal methods for Incidental Roofing Material, which is flashing. The material must not be sanded, abraded, or ground, but must be removed using manual methods that do not render the material friable. Otherwise, removal of material becomes a CLASS II activity.
5. Required and recommended practices for CLASS IV activities such as Maintenance and Custodial operations. This includes demolition of in-place NESHAP Category I and II Non-friable materials in good condition, during which employees contact ACM/PACM and/or are required to clean up waste and debris containing ACM/PACM.
6. NESHAP Category I or II non-friable ACM with a low probability of becoming crumbled, pulverized, or reduced to powder during demolition need not be removed. However, if the probability is high that the material will become crumbled, pulverized or reduced to powder during demolition, it must be considered "Regulated Asbestos Containing Material" (RACM) and is subject to Asbestos NESHAP. If the material is to be sanded, ground, cut or abraded during demolition the material is also considered "RACM" and is subject to the Asbestos NESHAP <sup>1</sup>
7. Required and recommended practices for CLASS III activities such as Repair and Maintenance operations. This includes operations where the ACM, including TSI and surfacing ACM/PACM, may be disturbed. Maintenance activities that disrupt the matrix of ACM or PACM, or generate visible debris from ACM or PACM are classified as CLASS III.
8. ACM cements, coatings, and mastics are no longer regulated by OSHA. These materials, if demolished in place, or removed substantially intact, are also NOT regulated by NESHAPS, and can be handled as construction debris.

The following work practices should be followed whenever demolition/renovation activities involving RACM occur (State regulations may require more stringent actions or reporting.):

- X notify EPA of intention to demolish/renovate,
- X remove all RACM from a facility being demolished or renovated before any disruptive activity begins or before access to the material is precluded,
- X keep RACM adequately wet before, during, and after removal operation,
- X conduct demolition/renovation activities in a manner which produces no visible emissions to the outside air, and
- X handle and dispose of all RACM in an approved manner.

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<sup>1</sup> U.S. Environmental Protection Agency. National Emission Standards for Hazardous Air Pollutants (NESHAP), Asbestos Regulations. 40 CFR Part 61, Subpart M, November 20, 1990.

## **BUILDING INSPECTION DISCLAIMER & ENDORSEMENTS**

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Applied Laboratory Services, LLC, is pleased to assist the Town of Smithfield with the asbestos inspection, at the subject property outlined in this report. This report has been prepared for the exclusive use of the Town of Smithfield and their agents for specific application to the property assessed. This work has been performed using reasonable care within the scope of work and in accordance with budgetary limitations. Applied Laboratory Services, LLC., strives to conduct services in keeping with regulatory boundaries, industry standards and in accordance with generally accepted industrial hygiene practice. No other warranty, expressed or implied, is made.

Our conclusions and recommendations are based upon our observations at the site, any reviewed documentation, test results, interviews, other information provided and our previous experience. The information contained in this document is based on physical inspections conducted by Applied Laboratory Services, LLC. We certify that our findings with regard to the presence or absence of visible and physically accessible asbestos is based on our inspection and the laboratory analysis of bulk samples taken during the inspection, unless otherwise noted in the report. All specified sampling areas which are reported to contain no asbestos have been inspected and, based on the inspection and analysis of suspect materials encountered or other reviews as described in this report, were found to contain no ACM.

Applied Laboratory Services, LLC., has analyzed the information obtained in this audit in keeping with existing guidelines and regulations, but cannot accurately predict what actions or interpretations any given agency may take presently, or what standards and practices may apply to the site in the future. Should such variations in regulations, guidelines or site conditions become apparent in the future, it will be necessary to reevaluate our conclusions and recommendations based upon additional analyses and on-site observations as appropriate.

The pricing for this work is based on the absence of personal liability of the preparers with respect to the work, and the understanding that any claim associated with the work shall look solely to Applied Laboratory Services, LLC.

Applied Laboratory Services, LLC., acknowledges that it maintained in full force and effect at the time the services described in the inspection were performed, professional liability (errors and omissions) insurance with minimum policy limits of one million dollars each occurrence and one million dollars in the aggregate. Applied Laboratory Services, LLC., currently maintains such insurance in full force and effect and currently has no plan to terminate such insurance in the foreseeable future. Applied Laboratory Services, LLC.'s liability in connection with this inspection shall cease after a period of three years from the date of completion of the study, and Applied Laboratory Services' total aggregate liability in connection with the inspection shall not exceed that amount actually covered by insurances on any such claim.

Please note that no environmental investigation can wholly eliminate uncertainty regarding the potential for adverse environmental conditions in connection with a property. This study is intended to reduce, but not eliminate, such uncertainty. The investigation recognizes reasonable limits of time and cost, and is designed to provide an appropriate level of inquiry, based on existing industry standards.

## **APPENDICES**

## **APPENDIX A – SITE DIAGRAM**



Pole Barn

1800s Barn

Crib

Carport Adjacent to Outside Kitchen

Outside Kitchen

Manor House

Caretaker's House

Farm Office

Corn Crib

West Peanut Barn

East Peanut Barn

Pump House & Machinery Cover

1994

Tour Guide

Google earth

Map Data: 4/23/2014 36 56 41.52" N 76 57 27.03" W Elev 31.6 Feet 7/1/16

## **APPENDIX B – MANOR HOUSE**

**APPLIED  
LABORATORY  
SERVICES**

Commonwealth of Virginia Asbestos  
Analytical Laboratory # 3333000153  
NVLAP Lab # 200515-0

**Certificate of Analysis**

*Analysis of Bulk Building Materials by Polarized Light Microscopy Techniques  
EPA Test Method (EPA/600/R-93/116)*

**ALS Account:** 01-163  
**Customer:** ALS Consulting  
4101 Granby Street  
Norfolk, VA 23504

**LIMS ID:** ALS-2015-47139  
**Project Name:** Manor House  
**ProjectNo:** 10733  
**Location:** 301 Jericho Rd, Smithfield  
**Samples Received:** 2/3/2015  
**Date Analyzed:** 2/9/2015

**P O:**  
**TAT:** ALS 24 Hour

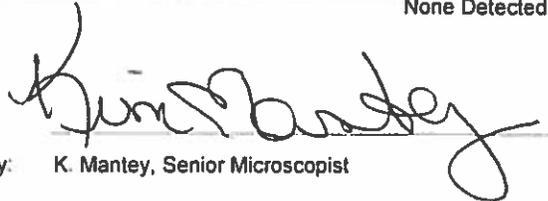
Lab ID Layer	Cust. ID Homogenous	Sample Date Description	Sample Location	Non Fibrous	Non Asbestos Fibers	Asbestos Fibers
47139-1 1	1 No	2/1/2015 Beige Fibrous/Pliable Sheet Flooring	Basement Foyer	80% NON FIBROUS MATERIAL	10% CELLULOSE FIBER	10% CHRYSOTILE
47139-1 2	1 Yes	2/1/2015 Yellow Foam	Basement Foyer	100% NON FIBROUS MATERIAL		None Detected
Sample analyzed as individual layers.						
47139-2 1	2 No	2/1/2015 Beige Fibrous/Pliable Sheet Flooring	Storage 3	80% NON FIBROUS MATERIAL	10% CELLULOSE FIBER	10% CHRYSOTILE
47139-2 2	2 Yes	2/1/2015 Yellow Foam	Storage 3	100% NON FIBROUS MATERIAL		None Detected
Sample analyzed as individual layers.						
47139-3 1	3 No	2/1/2015 Beige Fibrous/Pliable Sheet Flooring	Closet, Storage 4	80% NON FIBROUS MATERIAL	10% CELLULOSE FIBER	10% CHRYSOTILE
47139-3 2	3 Yes	2/1/2015 Yellow Foam	Closet, Storage 4	100% NON FIBROUS MATERIAL		None Detected
Sample analyzed as individual layers.						
47139-3 3	3 Yes	2/1/2015 Yellow Adhesive Mastic	Closet, Storage 4	100% NON FIBROUS MATERIAL		None Detected
Sample analyzed as individual layers.						
47139-4 1	4 Yes	2/1/2015 White Granular Plaster	Basement Foyer	100% NON FIBROUS MATERIAL		None Detected
47139-4 2	4 Yes	2/1/2015 Beige Fibrous/Granular Scratch Coat	Basement Foyer	98% NON FIBROUS MATERIAL	1% ANIMAL HAIR 1% SYNTHETIC FIBER	None Detected
Sample analyzed as individual layers.						

Lab ID	Cust. ID	Sample Date	Sample Location	Non Fibrous	Non Asbestos Fibers	Asbestos Fibers
Layer	Homogenous	Description				
47139-5	5	2/1/2015	Storage 2	98% NON FIBROUS MATERIAL	1% ANIMAL HAIR 1% SYNTHETIC FIBER	None Detected
1	Yes	Beige Fibrous/Granular Scratch Coat				
47139-6	6	2/1/2015	Storage 3	98% NON FIBROUS MATERIAL		2% CHRYSOTILE
1	Yes	White Granular Plaster				
47139-7	7	2/1/2015	Basement Foyer	100% NON FIBROUS MATERIAL		None Detected
1	Yes	White Granular Plaster				
47139-7	7	2/1/2015	Basement Foyer	98% NON FIBROUS MATERIAL	1% ANIMAL HAIR 1% SYNTHETIC FIBER	None Detected
2	Yes	White Fibrous/Granular Scratch Coat				
Sample analyzed as individual layers.						
47139-8	8	2/1/2015	Storage 1	100% NON FIBROUS MATERIAL		None Detected
1	Yes	White Granular Plaster				
47139-8	8	2/1/2015	Storage 1	98% NON FIBROUS MATERIAL	1% ANIMAL HAIR 1% SYNTHETIC FIBER	None Detected
2	Yes	White Fibrous/Granular Scratch Coat				
Sample analyzed as individual layers.						
47139-9	9	2/1/2015	Storage 4	100% NON FIBROUS MATERIAL		None Detected
1	Yes	White Granular Plaster				
47139-9	9	2/1/2015	Storage 4	98% NON FIBROUS MATERIAL	1% ANIMAL HAIR 1% SYNTHETIC FIBER	None Detected
2	Yes	White Fibrous/Granular Scratch Coat				
Sample analyzed as individual layers.						
47139-10	10	2/1/2015	Storage 3	99% NON FIBROUS MATERIAL	1% CELLULOSE FIBER	None Detected
1	No	Beige & Black Granular Mortar				
47139-11	11	2/1/2015	Back Foyer	80% NON FIBROUS MATERIAL		20% CHRYSOTILE
1	No	Beige Fibrous/Pliable Sheet Flooring				
47139-12	12	2/1/2015	Kitchen	80% NON FIBROUS MATERIAL	5% CELLULOSE FIBER	15% CHRYSOTILE
1	No	Beige Fibrous/Pliable Sheet Flooring				
47139-13	13	2/1/2015	Kitchen	95% NON FIBROUS MATERIAL	5% POLYETHYLENE	None Detected
1	Yes	Black Adhesive Mastic				
47139-14	14	2/1/2015	Dining Room	100% NON FIBROUS MATERIAL		None Detected
1	Yes	White Granular Surfacing Material				
47139-14	14	2/1/2015	Dining Room	100% NON FIBROUS MATERIAL		None Detected
2	Yes	Yellow Granular Plaster				
Sample analyzed as individual layers.						

Lab ID	Cust. ID	Sample Date	Sample Location	Non Fibrous	Non Asbestos Fibers	Asbestos Fibers
47139-14	14	2/1/2015	Dining Room	98% NON FIBROUS MATERIAL	1% ANIMAL HAIR 1% SYNTHETIC FIBER	None Detected
3	Yes	White Fibrous/Granular Scratch Coat				
Sample analyzed as individual layers.						
47139-15	15	2/1/2015	1st FI Foyer	100% NON FIBROUS MATERIAL		None Detected
1	Yes	White Granular Plaster				
47139-15	15	2/1/2015	1st FI Foyer	98% NON FIBROUS MATERIAL	1% ANIMAL HAIR 1% SYNTHETIC FIBER	None Detected
2	Yes	White Fibrous/Granular Scratch Coat				
Sample analyzed as individual layers.						
47139-16	16	2/1/2015	Meeting Room	100% NON FIBROUS MATERIAL		None Detected
1	Yes	White Granular Plaster				
47139-16	16	2/1/2015	Meeting Room	98% NON FIBROUS MATERIAL	1% ANIMAL HAIR 1% SYNTHETIC FIBER	None Detected
2	Yes	White Fibrous/Granular Scratch Coat				
Sample analyzed as individual layers.						
47139-17	17	2/1/2015	Meeting Room	100% NON FIBROUS MATERIAL		None Detected
1	Yes	White Granular Surfacing Material				
47139-17	17	2/1/2015	Meeting Room	99% NON FIBROUS MATERIAL	1% CELLULOSE FIBER	None Detected
2	Yes	White Fibrous/Granular Scratch Coat				
Sample analyzed as individual layers.						
47139-18	18	2/1/2015	Meeting Room	100% NON FIBROUS MATERIAL		None Detected
1	Yes	White Granular Plaster				
47139-18	18	2/1/2015	Meeting Room	98% NON FIBROUS MATERIAL	1% ANIMAL HAIR 1% SYNTHETIC FIBER	None Detected
2	Yes	White Fibrous/Granular Scratch Coat				
Sample analyzed as individual layers.						
47139-19	19	2/1/2015	1st FI Foyer	100% NON FIBROUS MATERIAL		None Detected
1	Yes	White Granular Plaster				
47139-19	19	2/1/2015	1st FI Foyer	98% NON FIBROUS MATERIAL	1% ANIMAL HAIR 1% SYNTHETIC FIBER	None Detected
2	Yes	White Fibrous/Granular Scratch Coat				
Sample analyzed as individual layers.						
47139-20	20	2/1/2015	Dining Room	98% NON FIBROUS MATERIAL	1% ANIMAL HAIR 1% SYNTHETIC FIBER	None Detected
1	Yes	White Fibrous/Granular Scratch Coat				
47139-21	21	2/1/2015	2nd FI Restroom	85% NON FIBROUS MATERIAL	5% CELLULOSE FIBER	10% CHRYSOTILE
1	No	Beige Fibrous/Pliable Sheet Flooring				
47139-22	22	2/1/2015	Bedroom 3	98% NON FIBROUS MATERIAL	1% ANIMAL HAIR 1% SYNTHETIC FIBER	None Detected
1	Yes	White Fibrous/Granular Scratch Coat				

Lab ID	Cust. ID	Sample Date	Sample Location	Non Fibrous	Non Asbestos Fibers	Asbestos Fibers
Layer	Homogenous	Description				
47139-23	23	2/1/2015	Bedroom 2	98% NON FIBROUS MATERIAL	1% ANIMAL HAIR 1% SYNTHETIC FIBER	None Detected
1	Yes	White Fibrous/Granular Scratch Coat				
47139-24	24	2/1/2015	2nd FI Landing	100% NON FIBROUS MATERIAL		None Detected
1	Yes	White Granular Plaster				
47139-24	24	2/1/2015	2nd FI Landing	98% NON FIBROUS MATERIAL	1% ANIMAL HAIR 1% CELLULOSE FIBER	None Detected
2	Yes	White Fibrous/Granular Scratch Coat				
Sample analyzed as individual layers.						
47139-25	25	2/1/2015	2nd FI Landing	100% NON FIBROUS MATERIAL		None Detected
1	Yes	White Granular Plaster				
47139-25	25	2/1/2015	2nd FI Landing	96% NON FIBROUS MATERIAL	2% ANIMAL HAIR 2% SYNTHETIC FIBER	None Detected
2	Yes	White Fibrous/Granular Scratch Coat				
Sample analyzed as individual layers.						
47139-26	26	2/1/2015	2nd FI Landing	100% NON FIBROUS MATERIAL		None Detected
1	Yes	White Granular Plaster				
47139-26	26	2/1/2015	2nd FI Landing	98% NON FIBROUS MATERIAL	1% ANIMAL HAIR 1% SYNTHETIC FIBER	None Detected
2	Yes	White Fibrous/Granular Scratch Coat				
Sample analyzed as individual layers.						
47139-27	27	2/1/2015	Bedroom 4	100% NON FIBROUS MATERIAL		None Detected
1	Yes	White Granular Plaster				
47139-27	27	2/1/2015	Bedroom 4	98% NON FIBROUS MATERIAL	1% ANIMAL HAIR 1% SYNTHETIC FIBER	None Detected
2	Yes	White Fibrous/Granular Scratch Coat				
Sample analyzed as individual layers.						
47139-28	28	2/1/2015	Attic, Bedroom 1	5% NON FIBROUS MATERIAL	95% CELLULOSE FIBER	None Detected
1	No	Beige Fibrous Insulation				
47139-29	29	2/1/2015	Bedroom 4	99% NON FIBROUS MATERIAL	1% CELLULOSE FIBER	None Detected
1	Yes	Beige Cementitious Mortar				
47139-29	29	2/1/2015	Bedroom 4	98% NON FIBROUS MATERIAL	1% ANIMAL HAIR 1% SYNTHETIC FIBER	None Detected
2	Yes	White Fibrous/Granular Scratch Coat				
Sample analyzed as individual layers.						
47139-30	30	2/1/2015	Under Kitchen	2% NON FIBROUS MATERIAL	98% FIBROUS GLASS	None Detected
1	Yes	Yellow Fibrous Insulation				
47139-31	31	2/1/2015	Exterior	100% NON FIBROUS MATERIAL		None Detected
1	No	Beige & Grey Cementitious Stucco				

Lab ID Layer	Cust. ID Homogenous	Sample Date Description	Sample Location	Non Fibrous	Non Asbestos Fibers	Asbestos Fibers
47139-32 1	32 No	2/1/2015 Beige & Grey Cementitious Stucco	Exterior	100% NON FIBROUS MATERIAL		None Detected
47139-33 1	33 No	2/1/2015 Beige & Grey Cementitious Stucco	Exterior	100% NON FIBROUS MATERIAL		None Detected
47139-34 1	34 Yes	2/1/2015 White Granular Glazing	Exterior Windows	100% NON FIBROUS MATERIAL		None Detected



Analyst: Kim Mantey

NIST Signatory: K. Mantey, Senior Microscopist

Date Released: 2/9/2015

*This Certificate of Analysis presents analytical data covered by this laboratory's accreditation under the National Voluntary Laboratory Accreditation Program (NVLAP). Detection, identification, and quantification of asbestos in certain building materials (e.g., floor tiles, caulk, asphalts, roofing materials) by PLM is difficult due to interfering matrix components. PLM technique has an estimated detection limit of 1% (v:v). Fibers smaller than 0.25 um cannot be detected; hence, correlative techniques should be considered for data verification. Non-detection of asbestos in certain materials should be verified by analytical electron microscopy techniques (refer to AHERA criteria). Quantifications are estimated by calibrated visual estimate, unless otherwise noted. The estimated measurement of uncertainty in PLM analysis is available upon request. The data reported herein relates only to those samples analyzed. This report shall not be reproduced, except in full, without the written permission of senior managers of this laboratory. This report shall not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.*

**ASBESTOS FIELD INSPECTION FORM/CHAIN OF CUSTODY**

ALS Project #: 10733      Project Name: Manor House      Project Location: 301 Jericho Rd, Smithfield VA

Date Sampled: 2/1/15      Results Due: 24 hrs      Inspector(s): HAWORTH|STEFFENS      ALS Lims #: 47139

Sample #	Sample Description	Sample Location	Quantity	*Condition G/D/SD	Friable Y/N
1	Sheet Flooring, Pattern Brick	Basement Foyer	742 SF	G	N
2	Sheet Flooring, Pattern Brick	Storage 3	Refer to #1	SD	N
3	Sheet Flooring, Pattern Brick	Closet, Storage 4	Refer to #1	D	N
4	Wall Plaster over Brick	Basement Foyer	3120	SD	Y
5	Wall Plaster over Brick	Storage 2	refer to #4	SD	Y
6	Wall Plaster over Brick	Storage 3	refer to #4	SD	Y
7	Ceiling Plaster	Basement foyer	500SF	SD	Y
8	Ceiling Plaster	Storage 1	refer to #7	SD	Y
9	Ceiling Plaster	Storage 4	refer to #7	SD	Y
10	Fireplace Mortar	Storage 3	50SF	G	Y

\*Condition - (G) Good      (D) Damaged      (SD) Significantly Damaged

**Special Instructions:**

Released By: <u>A Howard</u>	Company: <u>ALS</u>	Date/Time: <u>2/1/15</u>	Received By: <u>J Paul Funch</u>	Company: <u>ALS</u>	Date/Time: <u>2/3/15</u>
Released By: _____	Company: _____	Date/Time: _____	Received By: _____	Company: _____	Date/Time: _____

**ASBESTOS FIELD INSPECTION FORM/CHAIN OF CUSTODY**

ALS Project #: 10733      Project Name: Manor House      Project Location: 301 Jenkins Rd, Smithfield, VA  
 Date Sampled: 2/11/15      Results Due: 24 hrs      Inspector(s): HAWKINS | STEFFENS      ALS Lims #: 47139

Sample #	Sample Description	Sample Location	Quantity	*Condition G/D/SD	Friable Y/N
11	Sheet Flooring, Cobblestone Pattern	Back Foyer	12 SF	G	N
12	Sheet Flooring, Tile Pattern	<del>Exterior</del> Kitchen	209SF	G	N
13	Black Sink Mastic	<del>Exterior</del> Kitchen	60SF	G	N
14	Wall Plaster	Dining Room	8500SF	G	Y
15	Wall Plaster	1 <sup>st</sup> Fl. Foyer	refer to #14	G	Y
16	Wall Plaster	Meeting Room	refer to #14	G	Y
17	Fireplace Mortar	Meeting Room	refer to #10	G	Y
18	Plaster ceiling	Meeting Room	refer to #7	D	Y
19	Plaster ceiling	1 <sup>st</sup> Fl. Foyer	refer to #7	D	Y
20	Plaster ceiling	Dining Room	refer to #7	D	Y

\*Condition - (G) Good      (D) Damaged      (SD) Significantly Damaged

**Special Instructions:**

Released By: [Signature]      Company: ALS      Date/Time: 2/11/15  
 Received By: [Signature]      Company: ALS      Date/Time: 2/13/15

Released By: \_\_\_\_\_      Company: \_\_\_\_\_      Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_      Company: \_\_\_\_\_      Date/Time: \_\_\_\_\_

**ASBESTOS FIELD INSPECTION FORM/CHAIN OF CUSTODY**

ALS Project #: 10733      Project Name: Manor House      Project Location: 301 JERICHO RD, SMITHFIELD VA

Date Sampled: 2/11/15      Results Due: 24 hrs      Inspector(s): HAWKINS/STEFFENS      ALS Lims #: #47139

Sample #	Sample Description	Sample Location	Quantity	*Condition G/D/SD	Friable Y/N
21	Sheet Flooring, White	2nd floor restroom	40SF	G	N
22	wall Plaster	Bedroom 3	refer to #14	G/D	NY
23	wall Plaster	Bedroom 2	refer to #14	G	Y
24	wall Plaster	2nd floor landing	refer to #14	G	Y
25	Plaster ceiling	2nd floor landing	refer to #7	G	Y
26	Plaster ceiling	2nd floor landing	refer to #7	G	Y
27	Plaster ceiling	Bedroom 4	refer to #7	G	Y
28	Blown-in insulation	Attic, Bedroom 1	<del>1900</del> SF	G	Y
29	Fireplace mortar	Bedroom 4	refer to #10	G	Y
30	Bath insulation	under kitchen	250SF	D	Y

\*Condition - (G) Good      (D) Damaged      (SD) Significantly Damaged

**Special Instructions:**

Released By: [Signature]      Company: ALS      Date/Time: 2/11/15      Received By: [Signature]      Company: ALS      Date/Time: 2/13/15

Released By: \_\_\_\_\_      Company: \_\_\_\_\_      Date/Time: \_\_\_\_\_      Received By: \_\_\_\_\_      Company: \_\_\_\_\_      Date/Time: \_\_\_\_\_

**ASBESTOS FIELD INSPECTION FORM/CHAIN OF CUSTODY**

ALS Project #: 10733      Project Name: Manor House      Project Location: 321 Jericho Rd. Smithfield VA

Date Sampled: 2/11/15      Results Due: 24 hrs      Inspector(s): Hannah Steffens      ALS Lims #: 47139

Sample #	Sample Description	Sample Location	Quantity	*Condition G/D/SD	Friable Y/N
31	Stucco surfacing material	exterior	4500 SF	G	Y
32	Stucco surfacing material	exterior	refer to #31	G	Y
33	Stucco surfacing material	exterior	refer to #31	G	Y
34	Window Glazing	exterior windows	350 LF	SD	N

\*Condition - (G) Good      (D) Damaged      (SD) Significantly Damaged

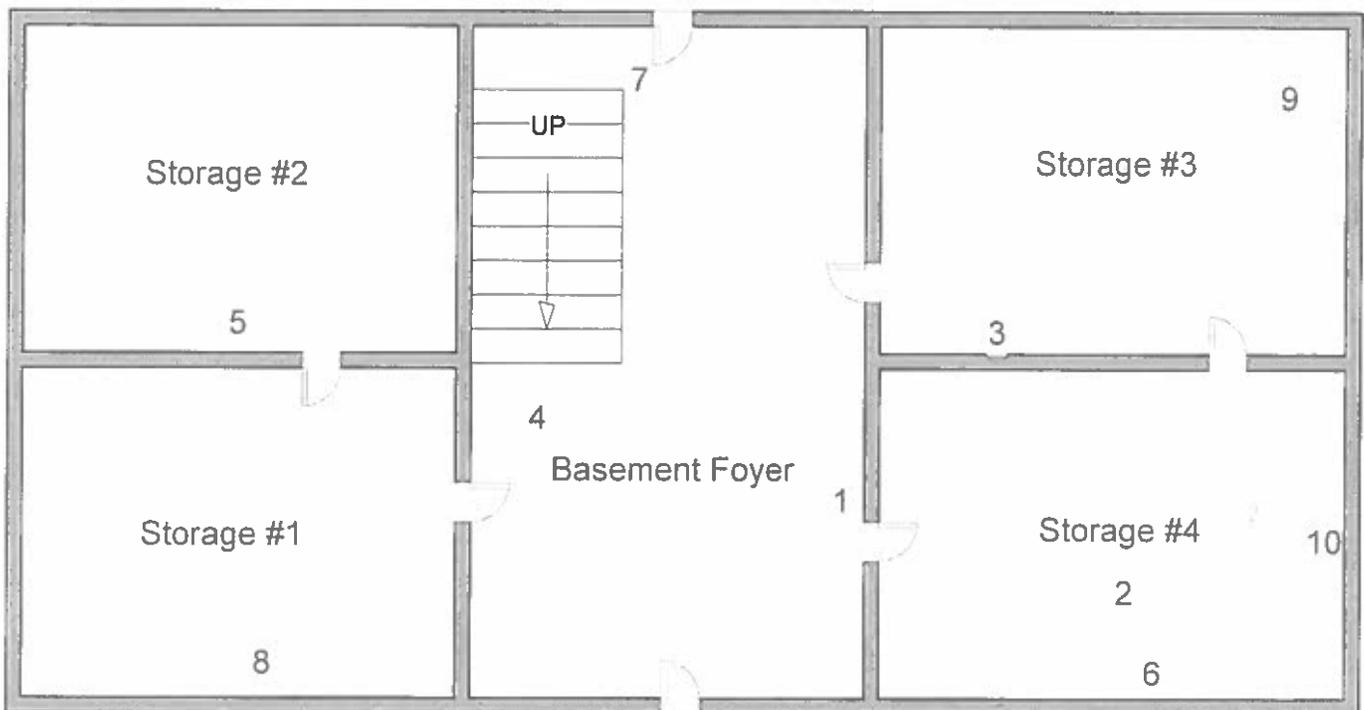
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Released By: [Signature]      Company: ALS      Date/Time: 2/11/15      Received By: [Signature]      Company: ALS      Date/Time: 2/13/15

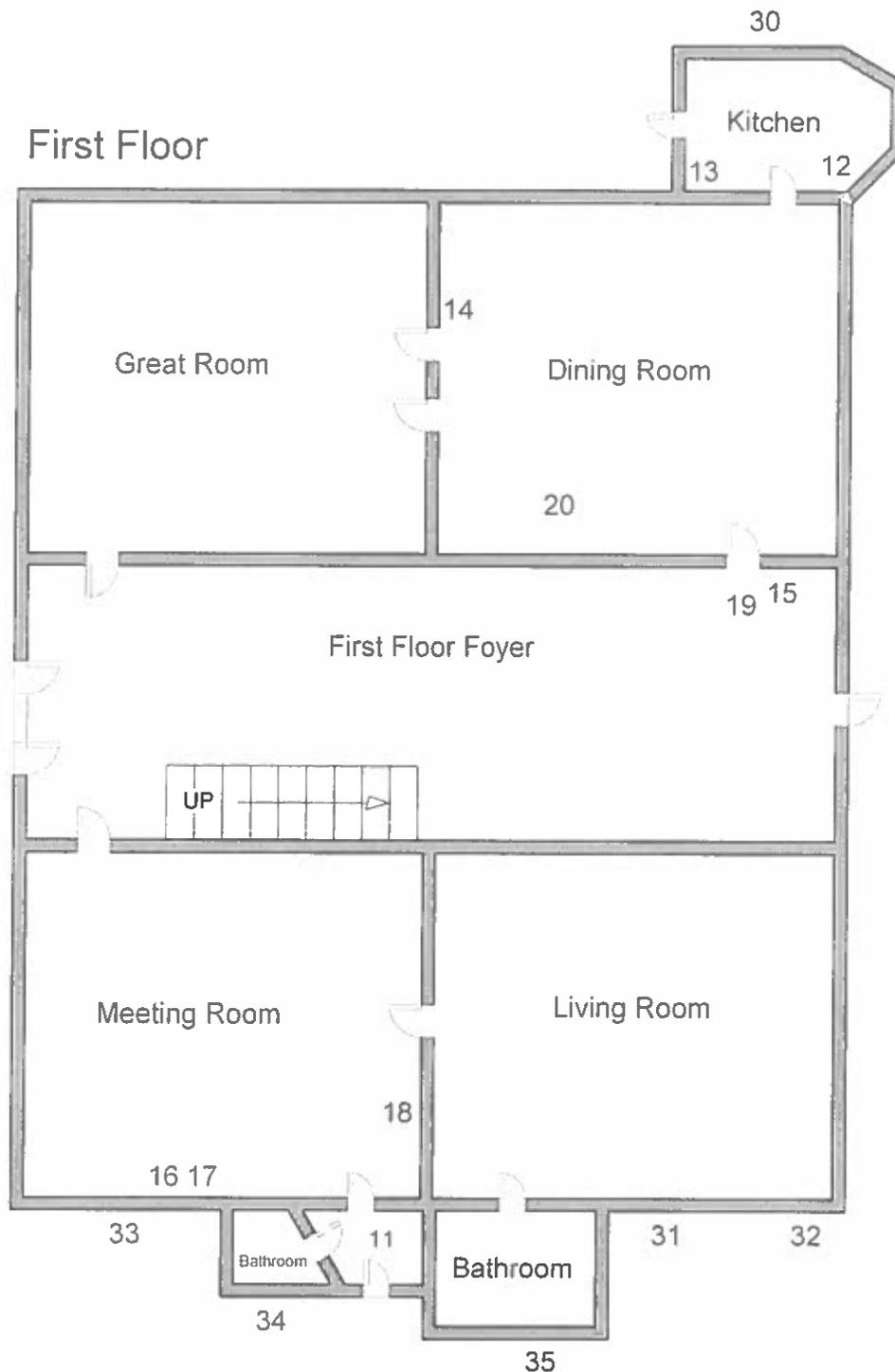
Released By: \_\_\_\_\_      Company: \_\_\_\_\_      Date/Time: \_\_\_\_\_      Received By: \_\_\_\_\_      Company: \_\_\_\_\_      Date/Time: \_\_\_\_\_

Asbestos Inspection  
Sample Location Diagram  
Windsor Castle  
Manor House  
February 4, 2015

Basement



Asbestos Inspection  
Sample Location Diagram  
Windsor Castle  
Manor House  
February 4, 2015



# Asbestos Inspection Sample Location Diagram Windsor Castle Manor House February 4, 2015

## Second Floor



## **APPENDIX C – CARETAKER’S HOUSE**

**APPLIED  
LABORATORY  
SERVICES**

*Commonwealth of Virginia Asbestos  
Analytical Laboratory # 3333000153  
NVLAP Lab # 200515-0*

**Certificate of Analysis**

*Analysis of Bulk Building Materials by Polarized Light Microscopy Techniques  
EPA Test Method (EPA/600/R-93/116)*

**ALS Account:** 01-163  
**Customer:** ALS Consulting  
4101 Granby Street  
Norfolk, VA 23504

**P O:**  
**TAT:** ALS 24 Hour

**LIMS ID:** ALS-2015-47138  
**Project Name:** Caretaker's House  
**ProjectNo:** 10733  
**Location:** 301 Jericho Rd, Smithfield  
**Samples Received:** 2/3/2015  
**Date Analyzed:** 2/4/2015

Lab ID	Cust. ID	Sample Date	Sample Location	Non Fibrous	Non Asbestos Fibers	Asbestos Fibers
47138-1	1	2/1/2015	Closet Under Stairs	35% NON FIBROUS MATERIAL	5% SYNTHETIC FIBER 60% CELLULOSE FIBER	None Detected
1	No	Beige & Black Fibrous/Granular Sheet Flooring				
47138-2	2	2/1/2015	Kitchen	75% NON FIBROUS MATERIAL	5% FIBROUS GLASS 20% CELLULOSE FIBER	None Detected
1	No	Beige Fibrous/Pliable Sheet Flooring				
47138-3	3	2/1/2015	Kitchen	75% NON FIBROUS MATERIAL	25% CELLULOSE FIBER	None Detected
1	Yes	White Adhesive Mastic				
47138-4	4	2/1/2015	Living Room 2	1% WOLLASTONITE 99% NON FIBROUS MATERIAL		<1% ANTHOPHYLLITE
1	Yes	Grey Granular Surfacing Material				
< 1% = trace.						
47138-4	4	2/1/2015	Living Room 2	100% NON FIBROUS MATERIAL		None Detected
2	Yes	White Granular Plaster				
Sample analyzed as individual layers.						
47138-4	4	2/1/2015	Living Room 2	98% NON FIBROUS MATERIAL	1% ANIMAL HAIR 1% SYNTHETIC FIBER	None Detected
3	Yes	White Fibrous/Granular Scratch Coat				
Sample analyzed as individual layers.						
47138-5	5	2/1/2015	Dining Room	100% NON FIBROUS MATERIAL		None Detected
1	Yes	White Granular Plaster				
47138-5	5	2/1/2015	Dining Room	98% NON FIBROUS MATERIAL	1% ANIMAL HAIR 1% SYNTHETIC FIBER	None Detected
2	Yes	White Fibrous/Granular Scratch Coat				
Sample analyzed as individual layers.						
47138-6	6	2/1/2015	Living Room 1	100% NON FIBROUS MATERIAL		None Detected
1	Yes	White Granular Plaster				

Lab ID	Cust. ID	Sample Date	Sample Location	Non Fibrous	Non Asbestos Fibers	Asbestos Fibers
47138-6	6	2/1/2015	Living Room 1	98% NON FIBROUS MATERIAL	1% ANIMAL HAIR 1% SYNTHETIC FIBER	None Detected
2	Yes	White Fibrous/Granular Scratch Coat				
Sample analyzed as individual layers.						
47138-7	7	2/1/2015	Living Room 1	100% NON FIBROUS MATERIAL		None Detected
1	Yes	White Granular Plaster				
47138-7	7	2/1/2015	Living Room 1	98% NON FIBROUS MATERIAL	1% ANIMAL HAIR 1% SYNTHETIC FIBER	None Detected
2	Yes	White Fibrous/Granular Scratch Coat				
Sample analyzed as individual layers.						
47138-8	8	2/1/2015	Kitchen	98% NON FIBROUS MATERIAL		2% CHRYSOTILE
1	Yes	White Granular Surfacing Material				
47138-8	8	2/1/2015	Kitchen	98% NON FIBROUS MATERIAL	1% ANIMAL HAIR 1% SYNTHETIC FIBER	None Detected
2	Yes	White Fibrous/Granular Scratch Coat				
Sample analyzed as individual layers.						
47138-9	9	2/1/2015	Foyer	90% NON FIBROUS MATERIAL	10% CELLULOSE FIBER	None Detected
1	No	Beige & White Fibrous/Granular Drywall Ceiling				
47138-10	10	2/1/2015	2nd FI Restroom	70% NON FIBROUS MATERIAL	10% FIBROUS GLASS 20% CELLULOSE FIBER	None Detected
1	No	Beige Fibrous/Pliable Sheet Flooring				
47138-11	11	2/1/2015	2nd FI Restroom	80% NON FIBROUS MATERIAL		20% CHRYSOTILE
1	No	Beige Fibrous/Pliable Sheet Flooring				
47138-11	11	2/1/2015	2nd FI Restroom	100% NON FIBROUS MATERIAL		None Detected
2	Yes	Yellow Adhesive Mastic				
Sample analyzed as individual layers.						
47138-12	12	2/1/2015	2nd FI Landing	100% NON FIBROUS MATERIAL		None Detected
1	Yes	White Granular Surfacing Material				
47138-12	12	2/1/2015	2nd FI Landing	100% NON FIBROUS MATERIAL		None Detected
2	Yes	White Granular Plaster				
Sample analyzed as individual layers.						
47138-12	12	2/1/2015	2nd FI Landing	98% NON FIBROUS MATERIAL	1% ANIMAL HAIR 1% SYNTHETIC FIBER	None Detected
3	Yes	White Fibrous/Granular Scratch Coat				
Sample analyzed as individual layers.						
47138-13	13	2/1/2015	Bedroom 2	100% NON FIBROUS MATERIAL		None Detected
1	Yes	White Granular Plaster				
47138-13	13	2/1/2015	Bedroom 2	98% NON FIBROUS MATERIAL	1% ANIMAL HAIR 1% SYNTHETIC FIBER	None Detected
2	Yes	White Fibrous/Granular Scratch Coat				
Sample analyzed as individual layers.						

Lab ID	Cust. ID	Sample Date	Sample Location	Non Fibrous	Non Asbestos Fibers	Asbestos Fibers
Layer	Homogenous	Description				
47138-14	14	2/1/2015	Bedroom 3	100% NON FIBROUS MATERIAL		None Detected
1	Yes	White Granular Plaster				
47138-14	14	2/1/2015	Bedroom 3	98% NON FIBROUS MATERIAL	1% ANIMAL HAIR 1% SYNTHETIC FIBER	None Detected
2	Yes	White Fibrous/Granular Scratch Coat				
Sample analyzed as individual layers.						
47138-15	15	2/1/2015	Bedroom 3	100% NON FIBROUS MATERIAL		None Detected
1	Yes	White Granular Plaster				
47138-15	15	2/1/2015	Bedroom 3	98% NON FIBROUS MATERIAL	1% ANIMAL HAIR 1% SYNTHETIC FIBER	None Detected
2	Yes	White Fibrous/Granular Scratch Coat				
Sample analyzed as individual layers.						
47138-16	16	2/1/2015	Bedroom 1	100% NON FIBROUS MATERIAL		None Detected
1	Yes	White Granular Plaster				
47138-16	16	2/1/2015	Bedroom 1	98% NON FIBROUS MATERIAL	1% ANIMAL HAIR 1% SYNTHETIC FIBER	None Detected
2	Yes	White Fibrous/Granular Scratch Coat				
Sample analyzed as individual layers.						
47138-17	17	2/1/2015	Bedroom 1	100% NON FIBROUS MATERIAL		None Detected
1	Yes	White Granular Plaster				
47138-17	17	2/1/2015	Bedroom 1	98% NON FIBROUS MATERIAL	1% ANIMAL HAIR 1% SYNTHETIC FIBER	None Detected
2	Yes	White Fibrous/Granular Scratch Coat				
Sample analyzed as individual layers.						
47138-18	18	2/1/2015	Exterior Window	100% NON FIBROUS MATERIAL		None Detected
1	Yes	White Granular Glazing				
47138-19	19	2/1/2015	Exterior Window	100% NON FIBROUS MATERIAL		None Detected
1	Yes	White Granular Glazing				
47138-20	20	2/1/2015	Roof	97% NON FIBROUS MATERIAL	1% CELLULOSE FIBER	2% CHRYSOTILE
1	Yes	Grey Granular Silver Coat				
47138-20	20	2/1/2015	Roof	95% NON FIBROUS MATERIAL		5% CHRYSOTILE
2	Yes	Black Adhesive Tar				
Sample analyzed as individual layers.						

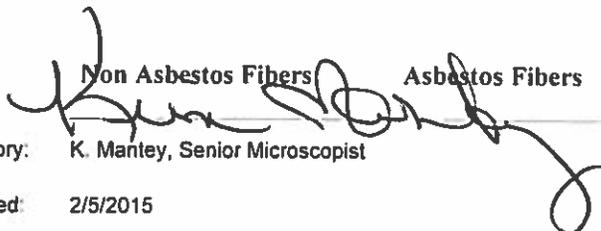
Lab ID Cust. ID Sample Date Sample Location  
Layer Homogenous Description

Non Fibrous

Non Asbestos Fibers

Asbestos Fibers

Analyst: Kim Mantey

NIST Signatory:  K. Mantey, Senior Microscopist

Date Released: 2/5/2015

*This Certificate of Analysis presents analytical data covered by this laboratory's accreditation under the National Voluntary Laboratory Accreditation Program (NVLAP). Detection, identification, and quantification of asbestos in certain building materials (e.g., floor tiles, caulk, asphalts, roofing materials) by PLM is difficult due to interfering matrix components. PLM technique has an estimated detection limit of 1% (v.v). Fibers smaller than 0.25 um cannot be detected; hence, correlative techniques should be considered for data verification. Non-detection of asbestos in certain materials should be verified by analytical electron microscopy techniques (refer to AHERA criteria). Quantifications are estimated by calibrated visual estimate, unless otherwise noted. The estimated measurement of uncertainty in PLM analysis is available upon request. The data reported herein relates only to those samples analyzed. This report shall not be reproduced, except in full, without the written permission of senior managers of this laboratory. This report shall not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.*

**ASBESTOS FIELD INSPECTION FORM/CHAIN OF CUSTODY**

ALS Project #: 10733      Project Name: Caretaker's House      Project Location: 301 Jericho Rd, Smithfield VA

Date Sampled: 2/11/15      Results Due: 24 hrs      Inspector(s): Steffens/Haworth      ALS Lims #: 47138

Sample #	Sample Description	Sample Location	Quantity	*Condition G/D/SD	Friable Y/N
1	Carpet Backing	Closet under stairs	200 SF	G	N
2	Sheet Flooring	Kitchen	150 SF	D	N
3	White Sink Mastic	Kitchen	60 SF	G	N
4	Wall Plaster	Living Room 2	4000 SF	SD	Y
5	Wall Plaster	Dining Room	refer to #4	D	Y
6	Wall Plaster	Living Room 1	refer to #4	SD	Y
7	Ceiling Plaster	Living Room 1	1350 SF	SD	Y
8	Ceiling Plaster	Kitchen	refer to #7	SD	Y
9	Drywall ceiling	Foyer	100 SF	SD	Y
10	Sheet Flooring, <sup>white</sup> tile pattern	2nd Fl Restroom	603 SF	SD	N

\*Condition - (G) Good      (D) Damaged      (SD) Significantly Damaged

Special Instructions: **Not carpet backing**

Released By: *[Signature]*      Company: ALS      Date/Time: 2/11/15      Received By: *[Signature]*      Company: ALS      Date/Time: 2/13/15

Released By: \_\_\_\_\_      Company: \_\_\_\_\_      Date/Time: \_\_\_\_\_      Received By: \_\_\_\_\_      Company: \_\_\_\_\_      Date/Time: \_\_\_\_\_



ASBESTOS FIELD INSPECTION FORM/CHAIN OF CUSTODY

ALS Project #: 10433      Project Name: Caretaker's House      Project Location: 301 Jericho Rd, Smithfield VA  
 Date Sampled: 2/11/15      Results Due: 24 hrs      Inspector(s): Steffens, Hawthorn      ALS Lims #: 47138

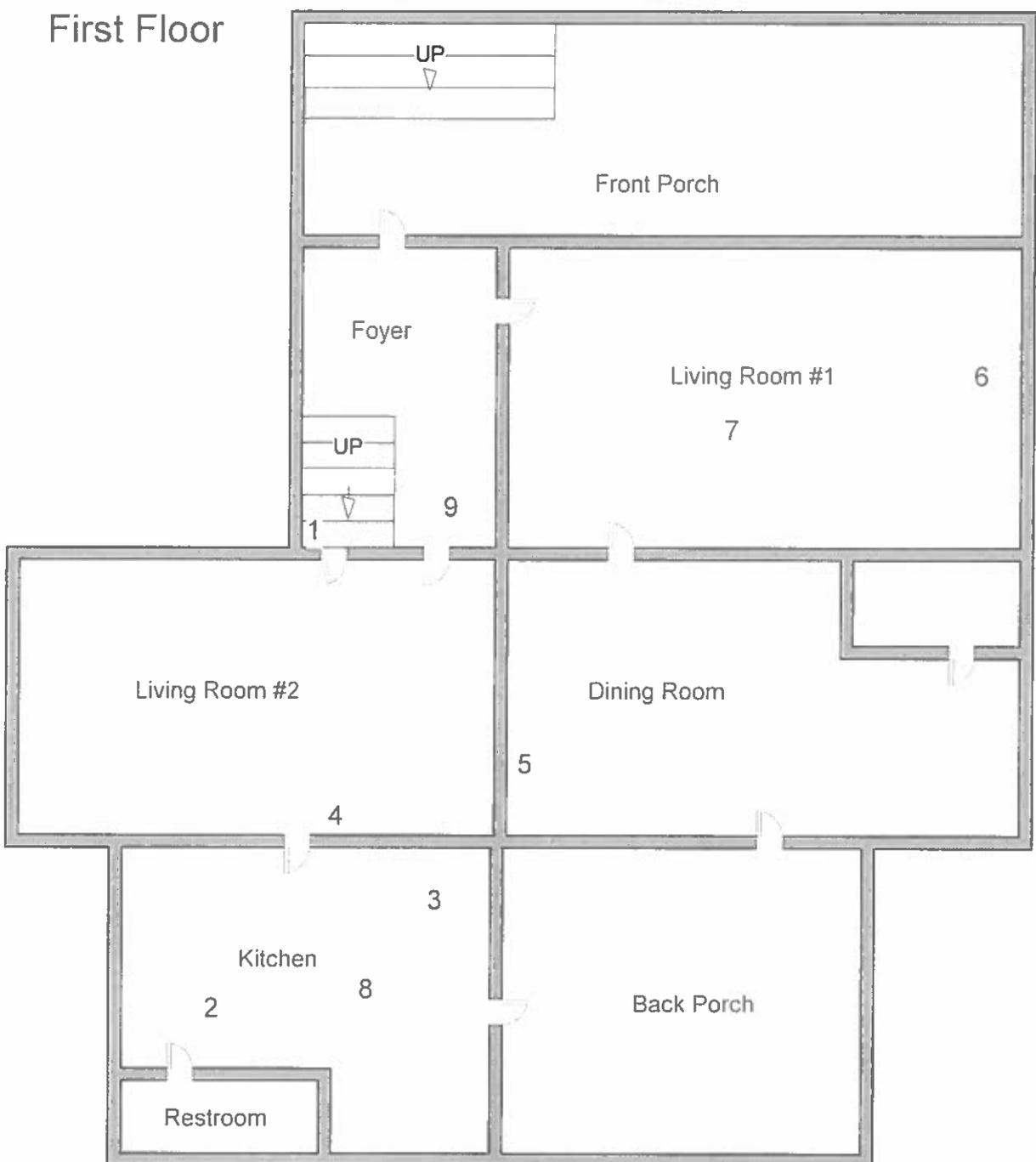
Sample #	Sample Description	Sample Location	Quantity	*Condition G/D/SD	Friable Y/N
11	Sheet Floor Sublayer	2nd fl. restroom	603	D	N
12	Wall Plaster	2nd fl. landing	refer to #4	SD	Y
13	Wall Plaster	Bedroom 2	refer to #4	G	Y
14	Wall Plaster	Bedroom 3	refer to #4	SD	Y
15	Ceiling Plaster	Bedroom 3	refer to #7	SD	Y
16	Ceiling Plaster	Bedroom 1	refer to #7	SD	Y
17	Ceiling Plaster	Bedroom 1	refer to #7	SD	Y
18	Window Glaze	Exterior Window	340 LF	SD	N
19	Window Glaze	Exterior window	refer to #18	SD	N
20	Silver Coat	Roof	1600SF	SD	N

\*Condition - (G) Good      (D) Damaged      (SD) Significantly Damaged

Special Instructions:

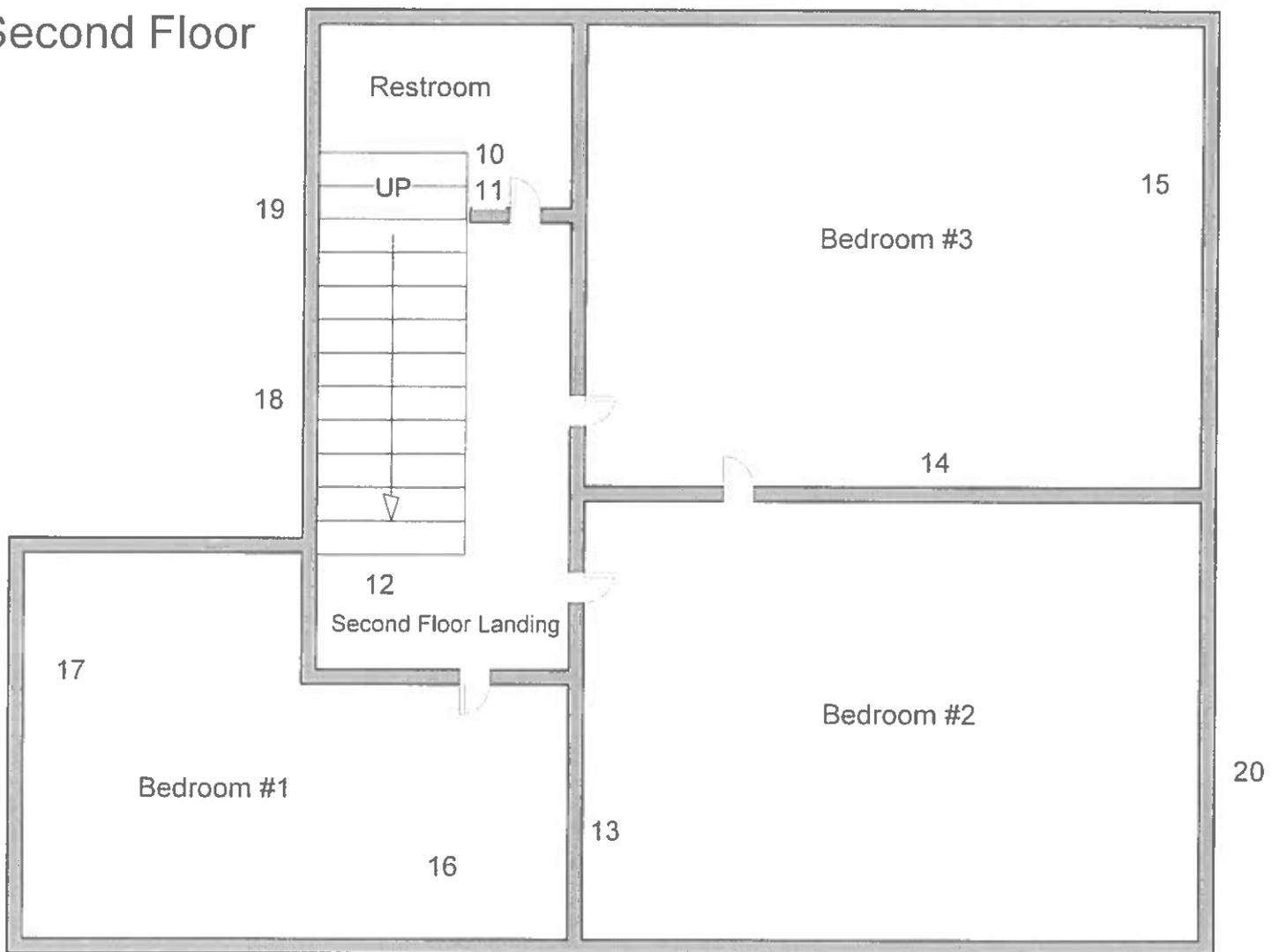
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Released By:	Company:	Date/Time:	Received By:	Company:	Date/Time:

# Asbestos Inspection Sample Location Diagram Windsor Castle Caretaker's House February 4, 2015



# Asbestos Inspection Sample Location Diagram Windsor Castle Caretaker's House February 4, 2015

Second Floor



## **APPENDIX D – 18<sup>TH</sup> CENTURY BARN**

**APPLIED  
LABORATORY  
SERVICES**

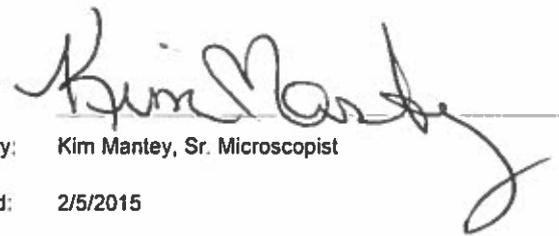
Commonwealth of Virginia Asbestos  
Analytical Laboratory # 3333000153  
NVLAP Lab # 200515-0

**Certificate of Analysis**  
*Analysis of Bulk Building Materials by Polarized Light Microscopy Techniques  
EPA Test Method (EPA/600/R-93/116)*

**ALS Account:** 01-163  
**Customer:** ALS Consulting  
4101 Granby Street  
Norfolk, VA 23504  
**P O:**  
**TAT:** ALS 24 Hour

**LIMS ID:** ALS-2015-47152  
**Project Name:** 18th Century Barn  
**ProjectNo:** 10733  
**Location:** 301 Jericho Rd, Smithfield  
**Samples Received:** 2/3/2015  
**Date Analyzed:** 2/4/2015

Lab ID	Cust. ID	Sample Date	Sample Location	Non Fibrous	Non Asbestos Fibers	Asbestos Fibers
47152-1	1	2/2/2015	Roof	98% NON FIBROUS MATERIAL		2% CHRYSOTILE
1	Yes	Grey Granular Silver Coat				
47152-2	2	2/2/2015	Roof	1% WOLLASTONITE 97% NON FIBROUS MATERIAL		2% CHRYSOTILE
1	Yes	Grey Granular Silver Coat				



**Analyst:** Kim Mantey

**NIST Signatory:** Kim Mantey, Sr. Microscopist

**Date Released:** 2/5/2015

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**ASBESTOS FIELD INSPECTION FORM/CHAIN OF CUSTODY**

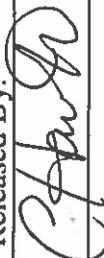
ALS Project #: 10733      Project Name: 18<sup>th</sup> Century barn      Project Location: 301 Jericho Rd, Smithfield VA

Date Sampled: 2/2/15      Results Due: 24 hrs      Inspector(s): Haworth | Steffens      ALS Lims #: 47152

Sample #	Sample Description	Sample Location	Quantity	*Condition G/D/SD	Friable Y/N
1	Silver coat	Roof	1500 SF	G	N
2	Silver coat	Roof	Refer to #1 <del>1500 SF</del>	G	N

\*Condition - (G) Good      (D) Damaged      (SD) Significantly Damaged

Special Instructions:

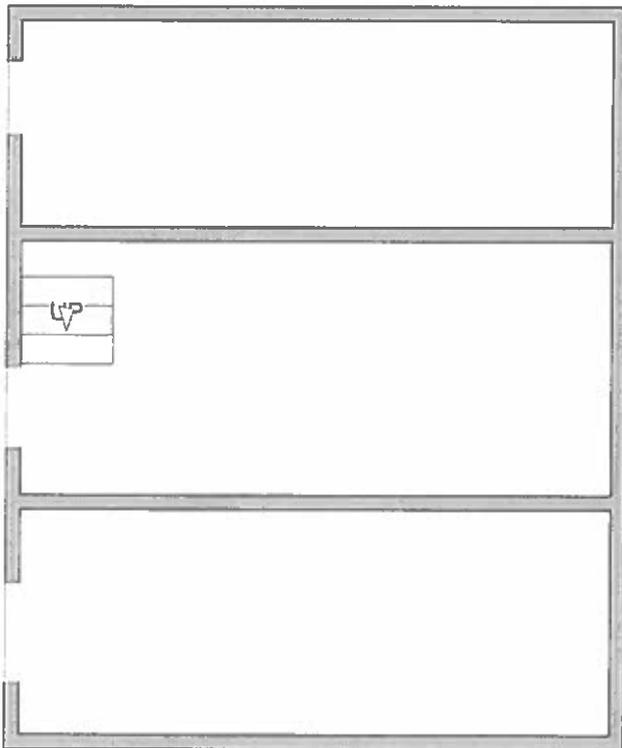
Released By:  Company: ALS      Date/Time: 2/2/15      Received By:  Company: ALS      Date/Time: 2/3/15

Released By: \_\_\_\_\_ Company: \_\_\_\_\_      Date/Time: \_\_\_\_\_      Received By: \_\_\_\_\_ Company: \_\_\_\_\_      Date/Time: \_\_\_\_\_

Asbestos Inspection  
Sample Location Diagram  
Windsor Castle  
18th Century Barn  
February 6, 2015

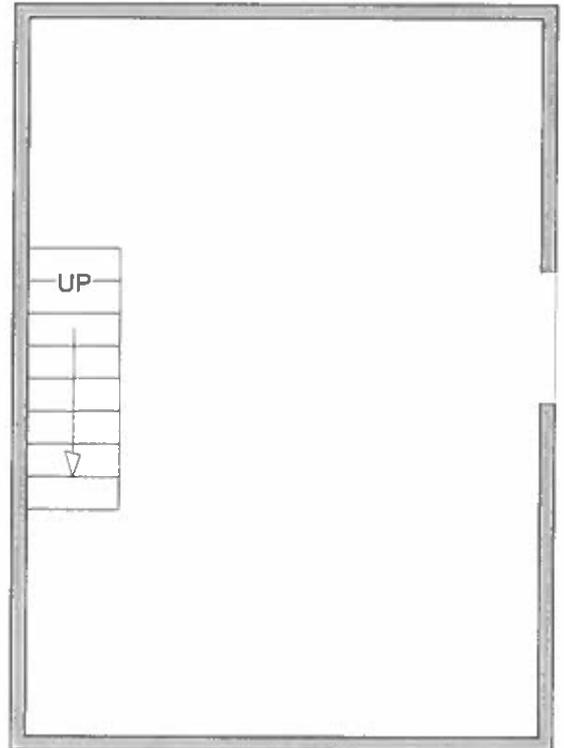
First Floor

2



1

Second Floor



## **APPENDIX E – CRIB**

**APPLIED  
LABORATORY  
SERVICES**

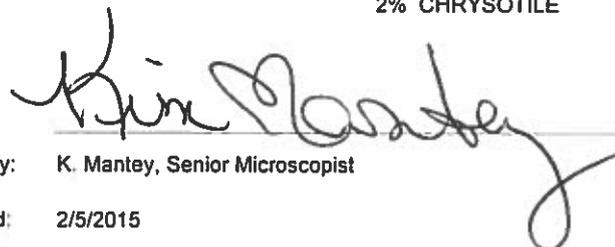
Commonwealth of Virginia Asbestos  
Analytical Laboratory # 3333000153  
NVLAP Lab # 200515-0

**Certificate of Analysis**  
*Analysis of Bulk Building Materials by Polarized Light Microscopy Techniques  
EPA Test Method (EPA/600/R-93/116)*

**ALS Account:** 01-163  
**Customer:** ALS Consulting  
4101 Granby Street  
Norfolk, VA 23504  
**P O:**  
**TAT:** ALS 24 Hour

**LIMS ID:** ALS-2015-47155  
**Project Name:** Crib  
**ProjectNo:** 10733  
**Location:** 301 Jericho Rd, Smithfield  
**Samples Received:** 2/3/2015  
**Date Analyzed:** 2/4/2015

Lab ID	Cust. ID	Sample Date	Sample Location	Non Fibrous	Non Asbestos Fibers	Asbestos Fibers
Layer	Homogenous	Description				
47155-1	1	2/2/2015	Roof A	97% NON FIBROUS MATERIAL	1% CELLULOSE FIBER	2% CHRYSOTILE
1	Yes	Grey Granular Silver Coat				
47155-2	2	2/2/2015	Roof B	97% NON FIBROUS MATERIAL	1% CELLULOSE FIBER	2% CHRYSOTILE
1	Yes	Grey Granular Silver Coat				
47155-3	3	2/2/2015	Roof B	98% NON FIBROUS MATERIAL		2% CHRYSOTILE
1	No	Grey & Brown Granular Silver Coat				



**Analyst:** Kim Mantey

**NIST Signatory:** K. Mantey, Senior Microscopist

**Date Released:** 2/5/2015

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**ASBESTOS FIELD INSPECTION FORM/CHAIN OF CUSTODY**

ALS Project #: 10733      Project Name: Crib      Project Location: 301 Jericho Rd, Smithfield VA

ALS Lims #: **47155**

Sample #	Sample Description	Sample Location	Quantity	*Condition G/D/SD	Friable Y/N
1	Silver Coat	Roof A	1300SF	G	N
2	Silver Coat	Roof B	refer to #1 <del>1300SF</del>	G	N
3	Silver Coat	Roof B	refer to #1	G	N

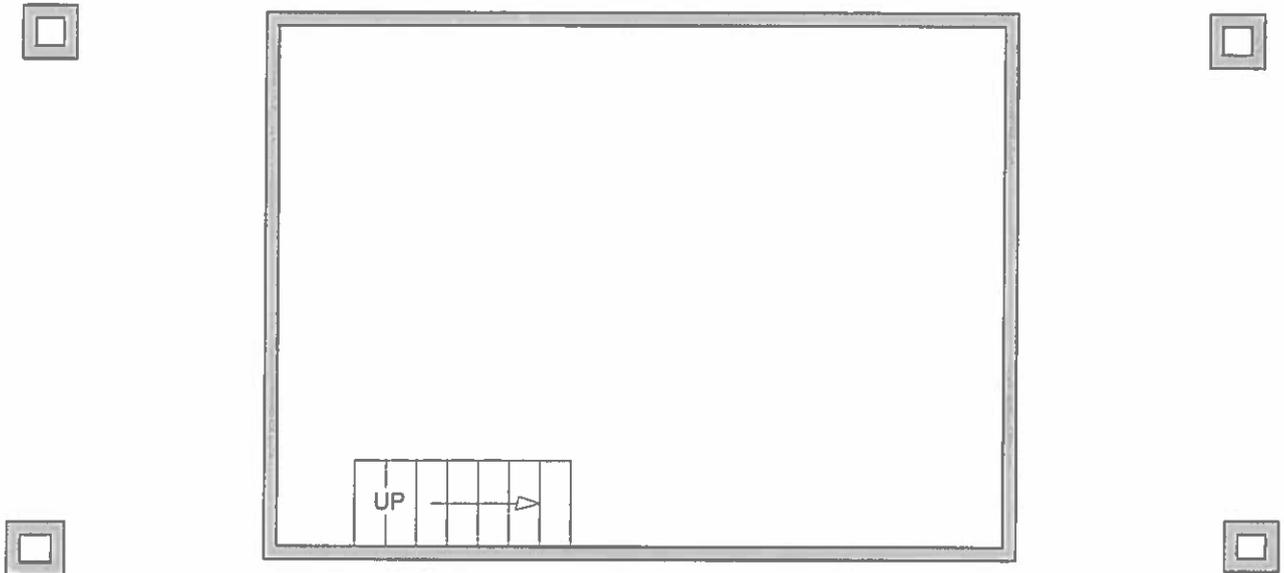
\*Condition - (G) Good      (D) Damaged      (SD) Significantly Damaged

Special Instructions: \_\_\_\_\_

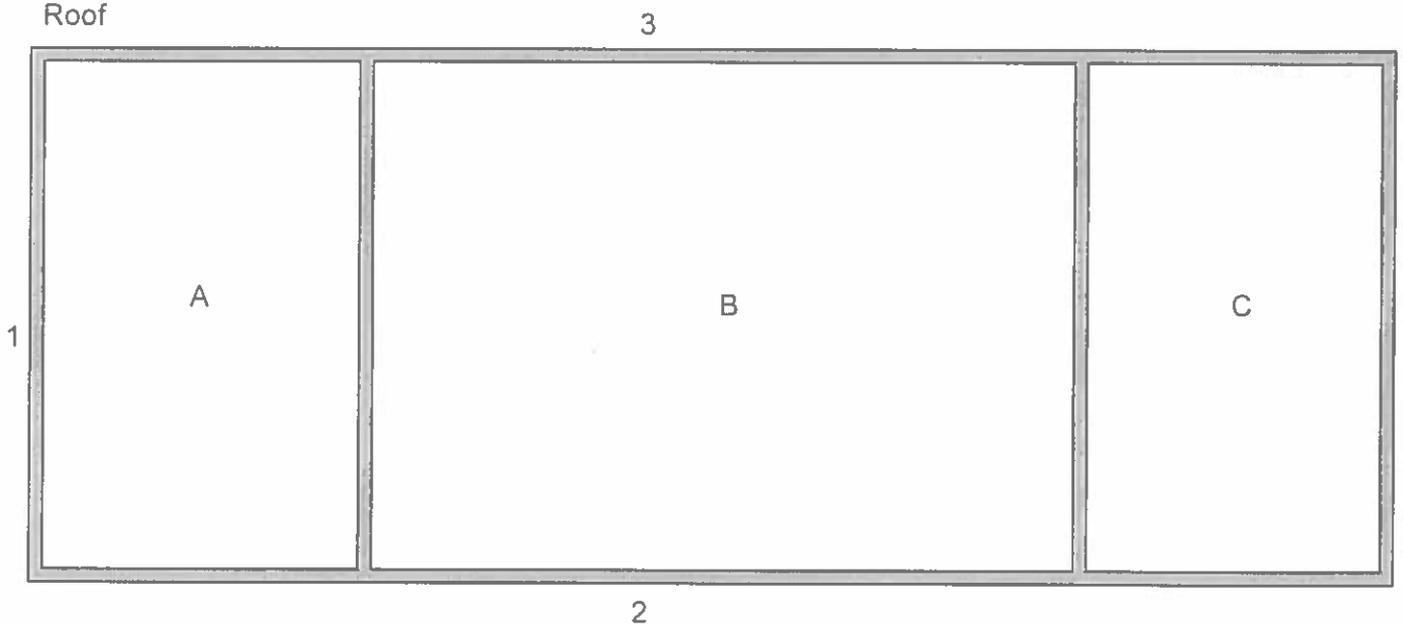
Released By: <u>C. Howard ALS</u>	Company: <u>ALS</u>	Date/Time: <u>2/2/15</u>	Received By: <u>James French ALS</u>	Company: <u>ALS</u>	Date/Time: <u>2/3/15</u>
Released By: _____	Company: _____	Date/Time: _____	Received By: _____	Company: _____	Date/Time: _____

Asbestos Inspection  
Sample Location Diagram  
Windsor Castle  
Crib  
February 6, 2015

First Floor



Roof



## **APPENDIX F – WEST PEANUT BARN**

**APPLIED  
LABORATORY  
SERVICES**

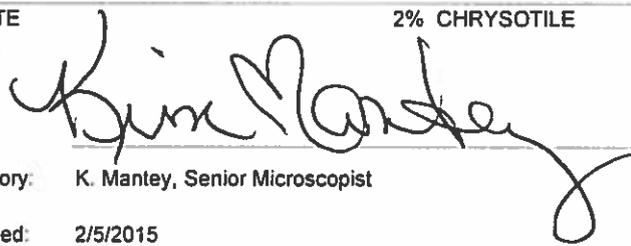
Commonwealth of Virginia Asbestos  
Analytical Laboratory # 3333000153  
NVLAP Lab # 200515-0

**Certificate of Analysis**  
*Analysis of Bulk Building Materials by Polarized Light Microscopy Techniques*  
EPA Test Method (EPA/600/R-93/116)

ALS Account: 01-163  
Customer: ALS Consulting  
4101 Granby Street  
Norfolk, VA 23504  
P O:  
TAT: ALS 24 Hour

LIMS ID: ALS-2015-47154  
Project Name: West Peanut Barn  
ProjectNo: 10733  
Location: 301 Jericho Rd, Smithfield  
Samples Received: 2/3/2015  
Date Analyzed: 2/4/2015

Lab ID	Cust. ID	Sample Date	Sample Location	Non Fibrous	Non Asbestos Fibers	Asbestos Fibers
47154-1	1	2/2/2015	Roof	98% NON FIBROUS MATERIAL		2% CHRYSOTILE
1	Yes	Grey Granular Silver Coat				
47154-2	2	2/2/2015	Roof	1% WOLLASTONITE 97% NON FIBROUS MATERIAL		2% CHRYSOTILE
1	Yes	Grey Granular Silver Coat				



Analyst: Kim Mantey

NIST Signatory: K. Mantey, Senior Microscopist

Date Released: 2/5/2015

*This Certificate of Analysis presents analytical data covered by this laboratory's accreditation under the National Voluntary Laboratory Accreditation Program (NVLAP). Detection, identification, and quantification of asbestos in certain building materials (e.g., floor tiles, caulk, asphalts, roofing materials) by PLM is difficult due to interfering matrix components. PLM technique has an estimated detection limit of 1% (v:v). Fibers smaller than 0.25 um cannot be detected; hence, correlative techniques should be considered for data verification. Non-detection of asbestos in certain materials should be verified by analytical electron microscopy techniques (refer to AHERA criteria). Quantifications are estimated by calibrated visual estimate, unless otherwise noted. The estimated measurement of uncertainty in PLM analysis is available upon request. The data reported herein relates only to those samples analyzed. This report shall not be reproduced, except in full, without the written permission of senior managers of this laboratory. This report shall not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.*

**ASBESTOS FIELD INSPECTION FORM/CHAIN OF CUSTODY**

ALS Project #: 10733      Project Name: West Peanut Barn      Project Location: 301 Jerricho Rd., Smithfield VA

ALS Lims #: 49154

Sample #	Sample Description	Sample Location	Quantity	*Condition G/D/SD	Friable Y/N
1	SILVER COAT	ROOF	1500 SF	G	N
2	SILVER COAT	ROOF	REFER TO #1	G	N

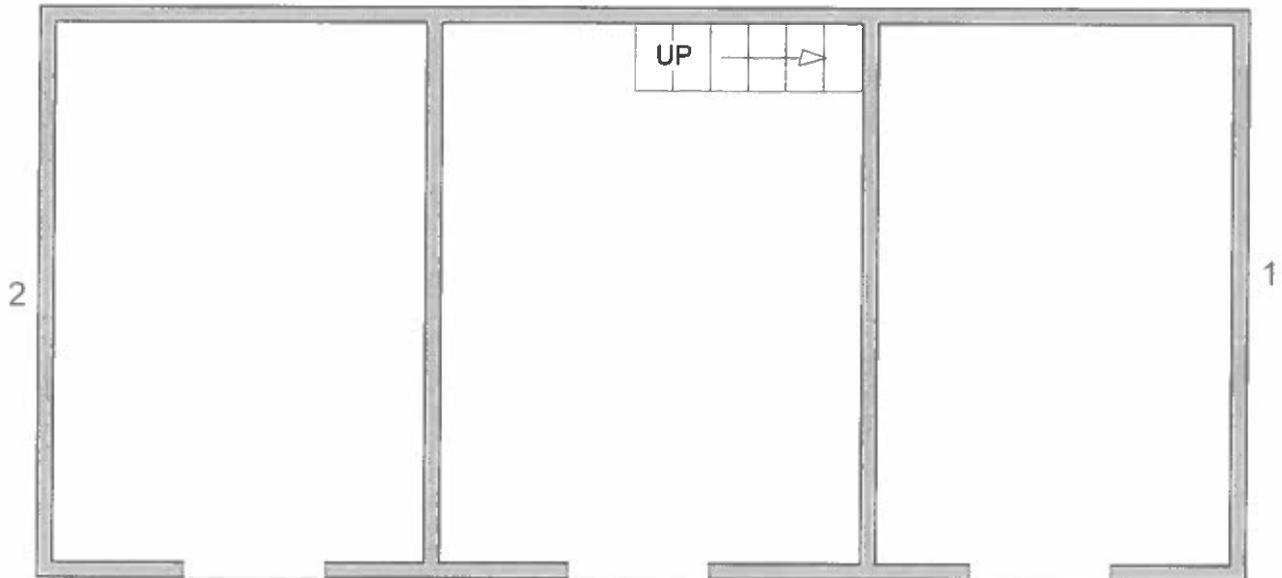
\*Condition - (G) Good      (D) Damaged      (SD) Significantly Damaged

Special Instructions:

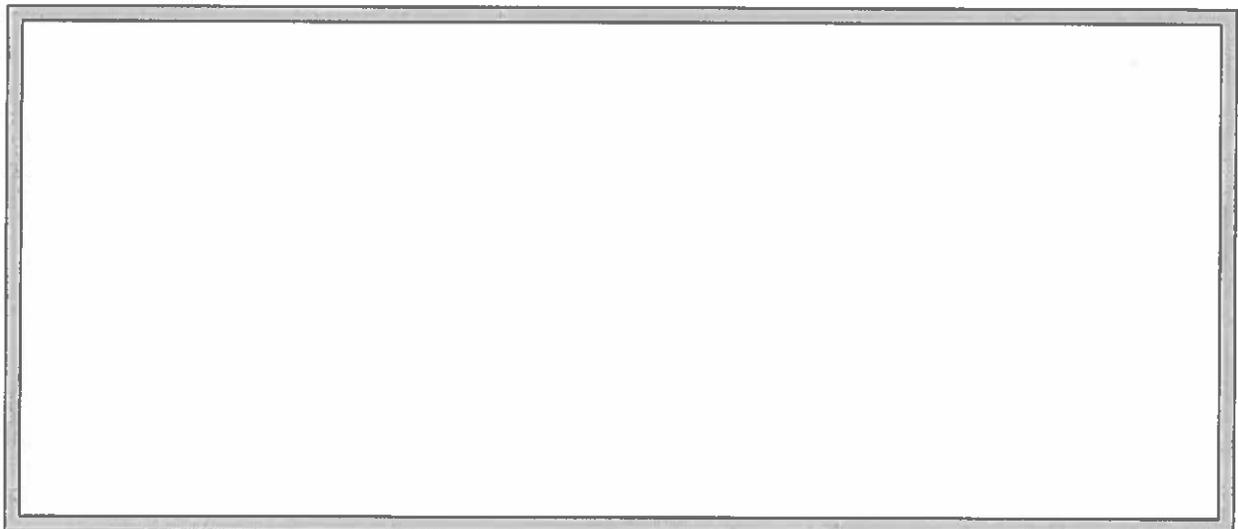
Released By:	Company	Date/Time	Received By:	Company	Date/Time
<i>C. Howard</i>	ALS	2/2/15	<i>Janet French</i>	ALS	2/3/15
Released By:	Company	Date/Time	Received By:	Company	Date/Time

Asbestos Inspection  
Sample Location Diagram  
Windsor Castle  
West Peanut Barn  
February 6, 2015

First Floor



Second Floor



## **APPENDIX G – EAST PEANUT BARN**

**APPLIED  
LABORATORY  
SERVICES**

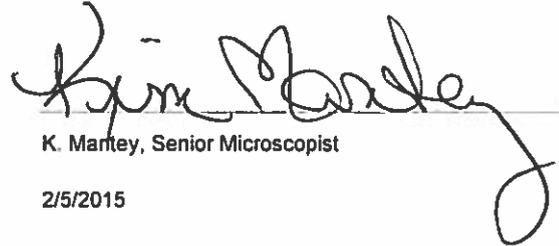
Commonwealth of Virginia Asbestos  
Analytical Laboratory # 3333000153  
NVLAP Lab # 200515-0

**Certificate of Analysis**  
*Analysis of Bulk Building Materials by Polarized Light Microscopy Techniques  
EPA Test Method (EPA/600/R-93/116)*

**ALS Account:** 01-163  
**Customer:** ALS Consulting  
4101 Granby Street  
Norfolk, VA 23504  
**P O:**  
**TAT:** ALS 24 Hour

**LIMS ID:** ALS-2015-47149  
**Project Name:** East Peanut Barn  
**ProjectNo:** 10733  
**Location:** 301 Jericho Rd, Smithfield  
**Samples Received:** 2/3/2015  
**Date Analyzed:** 2/4/2015

Lab ID	Cust. ID	Sample Date	Sample Location	Non Fibrous	Non Asbestos Fibers	Asbestos Fibers
47149-1	1	2/2/2015	Roof	1% WOLLASTONITE		2% CHRYSOTILE
1	Yes	Grey Granular Silver Coat		97% NON FIBROUS MATERIAL		
47149-2	2	2/2/2015	Roof	1% WOLLASTONITE		2% CHRYSOTILE
1	Yes	Grey Granular Silver Coat		97% NON FIBROUS MATERIAL		



**Analyst:** Kim Mantey

**NIST Signatory:** K. Mantey, Senior Microscopist

**Date Released:** 2/5/2015

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**ASBESTOS FIELD INSPECTION FORM/CHAIN OF CUSTODY**

ALS Project #: 10733      Project Name: East Peanut Barn      Project Location: 301 Jericho Rd. Smithfield, VA

Date Sampled: 2/2/15      Results Due: 24 Wks      Inspector(s): HAWORTH STEPHENS      ALS Lims #: 47149

Sample #	Sample Description	Sample Location	Quantity	*Condition G/D/SD	Friable Y/N
1	SILVER COAT	ROOF	1500 SF	G	N
2	SILVER COAT	ROOF	REFER TO #1	G	N

\*Condition - (G) Good      (D) Damaged      (SD) Significantly Damaged

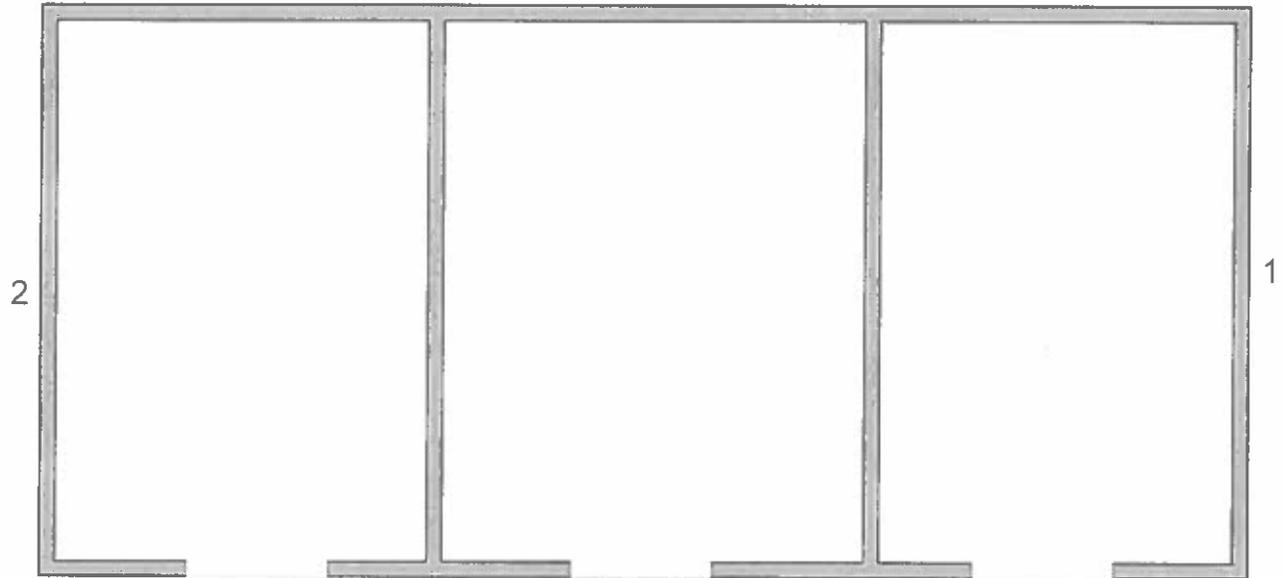
Special Instructions:

Released By: C. Haworth      Company: ALS      Date/Time: 2/2/15      Received By: Sarah French      Company: ALS      Date/Time: 2/3/15

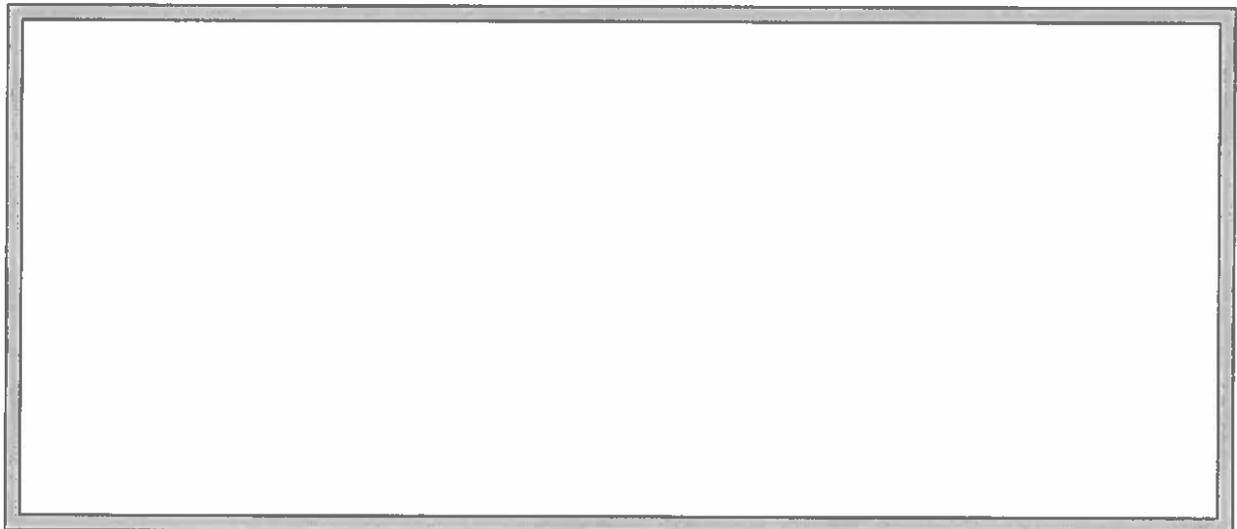
Released By: \_\_\_\_\_      Company: \_\_\_\_\_      Date/Time: \_\_\_\_\_      Received By: \_\_\_\_\_      Company: \_\_\_\_\_      Date/Time: \_\_\_\_\_

Asbestos Inspection  
Sample Location Diagram  
Windsor Castle  
East Peanut Barn  
February 6, 2015

First Floor



Second Floor



## **APPENDIX H – CORN CRIB**

**APPLIED  
LABORATORY  
SERVICES**

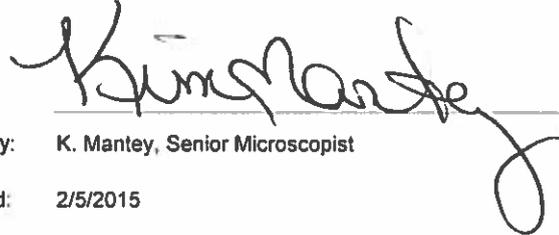
Commonwealth of Virginia Asbestos  
Analytical Laboratory # 3333000153  
NVLAP Lab # 200515-0

**Certificate of Analysis**  
*Analysis of Bulk Building Materials by Polarized Light Microscopy Techniques*  
EPA Test Method (EPA/600/R-93/116)

ALS Account: 01-163  
Customer: ALS Consulting  
4101 Granby Street  
Norfolk, VA 23504  
P O:  
TAT: ALS 24 Hour

LIMS ID: ALS-2015-47153  
Project Name: Corn Crib  
ProjectNo: 10733  
Location: 301 Jericho Rd, Smithfield  
Samples Received: 2/3/2015  
Date Analyzed: 2/4/2015

Lab ID	Cust. ID	Sample Date	Sample Location	Non Fibrous	Non Asbestos Fibers	Asbestos Fibers
Layer	Homogenous	Description				
47153-1	1	2/2/2015	Roof	97% NON FIBROUS MATERIAL	1% CELLULOSE FIBER	2% CHRYSOTILE
1	Yes	Grey Granular Silver Coat				
47153-2	2	2/2/2015	Roof	97% NON FIBROUS MATERIAL	1% CELLULOSE FIBER	2% CHRYSOTILE
1	Yes	Grey Granular Silver Coat				



Analyst: Kim Mantey

NIST Signatory: K. Mantey, Senior Microscopist

Date Released: 2/5/2015

*This Certificate of Analysis presents analytical data covered by this laboratory's accreditation under the National Voluntary Laboratory Accreditation Program (NVLAP). Detection, identification, and quantification of asbestos in certain building materials (e.g., floor tiles, caulk, asphalts, roofing materials) by PLM is difficult due to interfering matrix components. PLM technique has an estimated detection limit of 1% (v.v). Fibers smaller than 0.25 um cannot be detected; hence, correlative techniques should be considered for data verification. Non-detection of asbestos in certain materials should be verified by analytical electron microscopy techniques (refer to AHERA criteria). Quantifications are estimated by calibrated visual estimate, unless otherwise noted. The estimated measurement of uncertainty in PLM analysis is available upon request. The data reported herein relates only to those samples analyzed. This report shall not be reproduced, except in full, without the written permission of senior managers of this laboratory. This report shall not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.*

ASBESTOS FIELD INSPECTION FORM/CHAIN OF CUSTODY

ALS Project #: 10733 Project Name: CORN CRIB Inspector(s): HAWORTH | STEFFENS ALS Lims #: 47153  
 Project Location: 301 JERICHO RD, SMITHFIELD VA

Date Sampled: 2/2/15 Results Due: 24 HRS

Sample #	Sample Description	Sample Location	Quantity	*Condition G/D/SD	Friable Y/N
1	SILVER COAT	ROOF	500 SF	G	<del>Y</del> N
2	SILVER COAT	ROOF	REFER TO #1	G	N

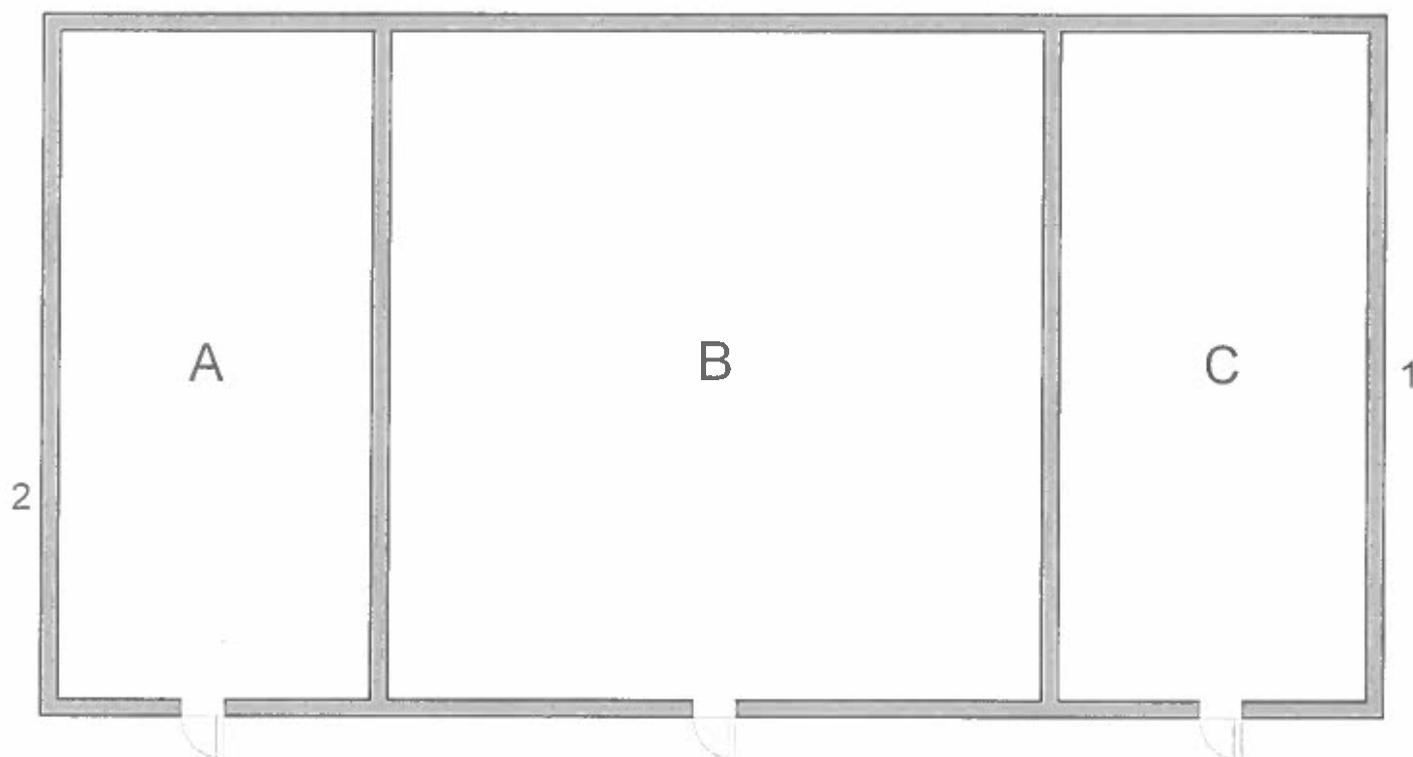
\*Condition - (G) Good (D) Damaged (SD) Significantly Damaged

Special Instructions:

Released By: C. Haworth ALS Date/Time: 2/2/15 Company: ALS  
 Received By: Sarah French ALS Date/Time: 2/3/15 Company: ALS

Released By: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Asbestos Inspection  
Sample Location Diagram  
Windsor Castle  
Corn Crib  
February 4, 2015



## **APPENDIX I – POLE BARN**

**APPLIED  
LABORATORY  
SERVICES**

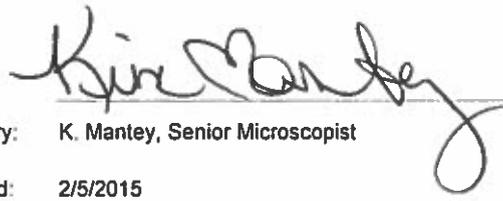
Commonwealth of Virginia Asbestos  
Analytical Laboratory # 3333000153  
NVLAP Lab # 200515-0

**Certificate of Analysis**  
*Analysis of Bulk Building Materials by Polarized Light Microscopy Techniques*  
*EPA Test Method (EPA/600/R-93/116)*

**ALS Account:** 01-163  
**Customer:** ALS Consulting  
4101 Granby Street  
Norfolk, VA 23504  
**P O:**  
**TAT:** ALS 24 Hour

**LIMS ID:** ALS-2015-47146  
**Project Name:** Pole Barn  
**ProjectNo:** 10733  
**Location:** 301 Jericho Rd, Smithfield  
**Samples Received:** 2/3/2015  
**Date Analyzed:** 2/4/2015

Lab ID	Cust. ID	Sample Date	Sample Location	Non Fibrous	Non Asbestos Fibers	Asbestos Fibers
47146-1	1	2/2/2015	Roof	1% WOLLASTONITE 95% NON FIBROUS MATERIAL	2% CELLULOSE FIBER	2% CHRYSOTILE
1	Yes	Grey Granular Silver Coat				
47146-2	2	2/2/2015	Roof	1% WOLLASTONITE 95% NON FIBROUS MATERIAL	2% CELLULOSE FIBER	2% CHRYSOTILE
1	Yes	Grey Granular Silver Coat				



**Analyst:** Kim Mantey

**NIST Signatory:** K. Mantey, Senior Microscopist

**Date Released:** 2/5/2015

*This Certificate of Analysis presents analytical data covered by this laboratory's accreditation under the National Voluntary Laboratory Accreditation Program (NVLAP). Detection, identification, and quantification of asbestos in certain building materials (e.g., floor tiles, caulk, asphalts, roofing materials) by PLM is difficult due to interfering matrix components. PLM technique has an estimated detection limit of 1% (v:v). Fibers smaller than 0.25 um cannot be detected; hence, correlative techniques should be considered for data verification. Non-detection of asbestos in certain materials should be verified by analytical electron microscopy techniques (refer to AHERA criteria). Quantifications are estimated by calibrated visual estimate, unless otherwise noted. The estimated measurement of uncertainty in PLM analysis is available upon request. The data reported herein relates only to those samples analyzed. This report shall not be reproduced, except in full, without the written permission of senior managers of this laboratory. This report shall not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.*

**ASBESTOS FIELD INSPECTION FORM/CHAIN OF CUSTODY**

ALS Project #: 10933      Project Name: Pole Barn      Project Location: 301 Jericho Rd, Smithfield VA

ALS Lims #: 4746

Sample #	Sample Description	Sample Location	Quantity	*Condition G/D/SD	Friable Y/N
1	Silver Coat	Roof	2100 SF	G	Y
2	Silver Coat	Roof	refer to #1	G	Y

\*Condition - (G) Good      (D) Damaged      (SD) Significantly Damaged

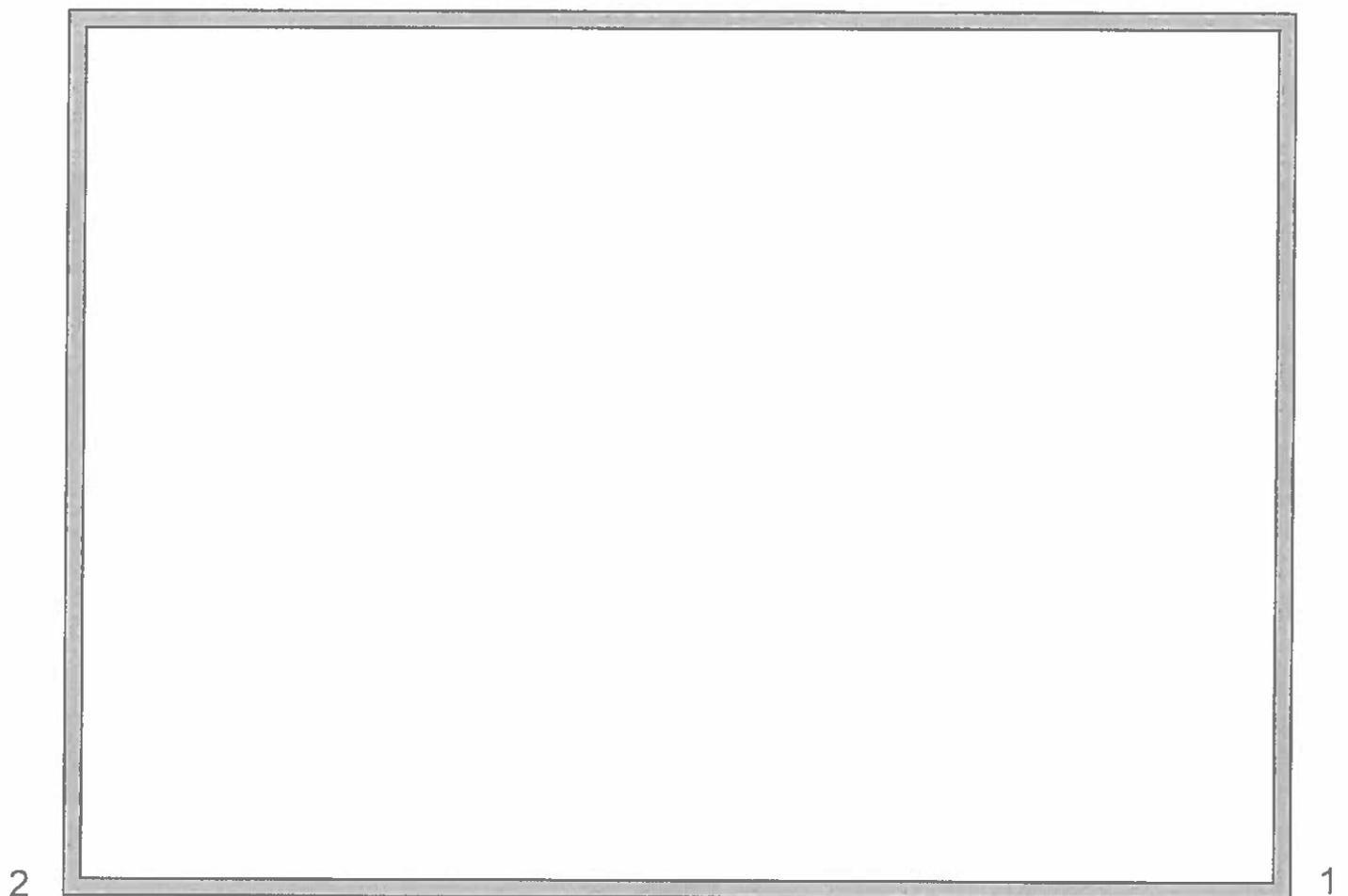
**Special Instructions:**

Released By: C. Haworth      Company: ALS      Date/Time: 2/2/15      Received By: Jason Funch      Company: ALS      Date/Time: 2/3/15

Released By:      Company:      Date/Time:      Received By:      Company:      Date/Time:

Asbestos Inspection  
Sample Location Diagram  
Windsor Castle  
Pole Barn  
February 6, 2015

Roof



## **APPENDIX J – FARM OFFICE**

**APPLIED  
LABORATORY  
SERVICES**

Commonwealth of Virginia Asbestos  
Analytical Laboratory # 3333000153  
NVLAP Lab # 200515-0

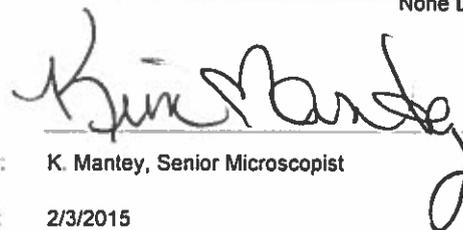
**Certificate of Analysis**  
*Analysis of Bulk Building Materials by Polarized Light Microscopy Techniques*  
EPA Test Method (EPA/600/R-93/116)

ALS Account: 01-163  
Customer: ALS Consulting  
4101 Granby Street  
Norfolk, VA 23504

P O:  
TAT: ALS 24 Hour

LIMS ID: ALS-2015-47140  
Project Name: Office Building  
ProjectNo: 10733  
Location: 301 Jericho Rd, Smithfield  
Samples Received: 2/3/2015  
Date Analyzed: 2/3/2015

Lab ID	Cust. ID	Sample Date	Sample Location	Non Fibrous	Non Asbestos Fibers	Asbestos Fibers
Layer	Homogenous	Description				
47140-1	1	2/1/2015	Main Room	60% NON FIBROUS MATERIAL	20% CELLULOSE FIBER	20% CHRYSOTILE
1	No	Beige Fibrous/Pliable Sheet Flooring				
47140-2	2	2/1/2015	Main Room	10% NON FIBROUS MATERIAL	90% FIBROUS GLASS	None Detected
1	No	White & Yellow Fibrous/Pliable 2X4 Ceiling Tile				
47140-3	3	2/1/2015	Exterior	100% NON FIBROUS MATERIAL		None Detected
1	Yes	White Granular Glazing				



Analyst: Kim Mantey

NIST Signatory: K. Mantey, Senior Microscopist

Date Released: 2/3/2015

*This Certificate of Analysis presents analytical data covered by this laboratory's accreditation under the National Voluntary Laboratory Accreditation Program (NVLAP). Detection, identification, and quantification of asbestos in certain building materials (e.g., floor tiles, caulk, asphalts, roofing materials) by PLM is difficult due to interfering matrix components. PLM technique has an estimated detection limit of 1% (v.v). Fibers smaller than 0.25 um cannot be detected; hence, correlative techniques should be considered for data verification. Non-detection of asbestos in certain materials should be verified by analytical electron microscopy techniques (refer to AHERA criteria). Quantifications are estimated by calibrated visual estimate, unless otherwise noted. The estimated measurement of uncertainty in PLM analysis is available upon request. The data reported herein relates only to those samples analyzed. This report shall not be reproduced, except in full, without the written permission of senior managers of this laboratory. This report shall not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.*

**ASBESTOS FIELD INSPECTION FORM/CHAIN OF CUSTODY**

ALS Project #: 10733      Project Name: Office Building      Project Location: 301 Jericho Rd, Smithfield VA

Date Sampled: 2/11/15      Results Due: 24 hrs      Inspector(s): Steffens/Haworth      ALS Lims #: 47140

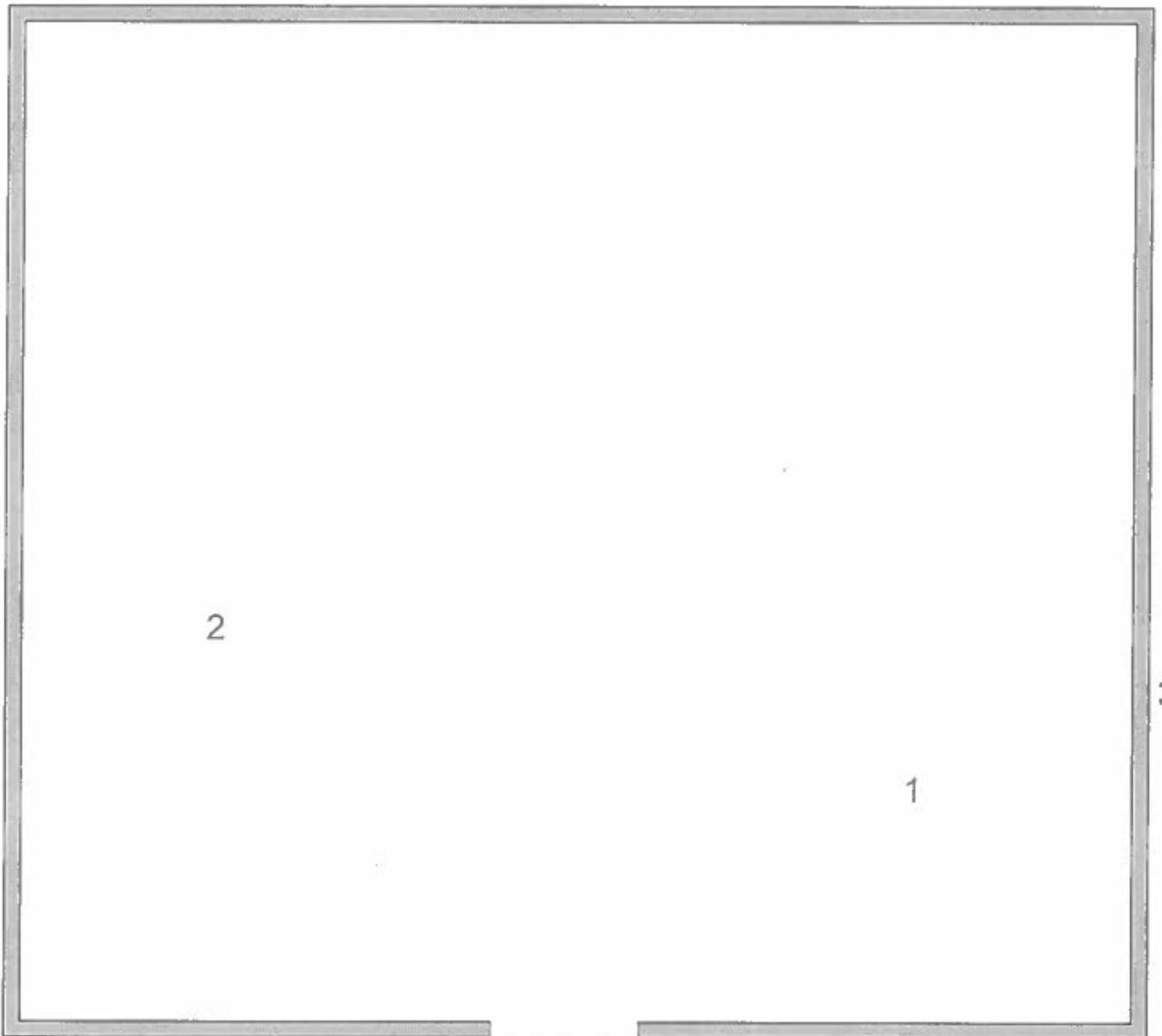
Sample #	Sample Description	Sample Location	Quantity	*Condition G/D/SD	Friable Y/N
1	Sheet Flooring, green	Main Room	250 SF	D	N
2	2'x4' ceiling tiles	Main Room	250 SF	SD	Y
3	Window Glaze	EXTERIOR	50 LF	SD	N

\*Condition - (G) Good      (D) Damaged      (SD) Significantly Damaged

Special Instructions:

Released By: <u>[Signature]</u>	Company: <u>ALS</u>	Date/Time: <u>2/11/15</u>	Received By: <u>[Signature]</u>	Company: <u>ALS</u>	Date/Time: <u>2/13/15</u>
Released By: _____	Company: _____	Date/Time: _____	Received By: _____	Company: _____	Date/Time: _____

Asbestos Inspection  
Sample Location Diagram  
Windsor Castle  
Farm Office  
February 6, 2015



## **APPENDIX K – OUTSIDE KITCHEN**

**APPLIED  
LABORATORY  
SERVICES**

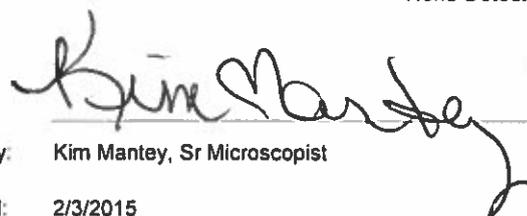
Commonwealth of Virginia Asbestos  
Analytical Laboratory # 3333000153  
NVLAP Lab # 200515-0

**Certificate of Analysis**  
*Analysis of Bulk Building Materials by Polarized Light Microscopy Techniques  
EPA Test Method (EPA/600/R-93/116)*

ALS Account: 01-163  
Customer: ALS Consulting  
4101 Granby Street  
Norfolk, VA 23504  
P O:  
TAT: ALS 24 Hour

LIMS ID: ALS-2015-47137  
Project Name: Outside Kitchen  
ProjectNo: 10733  
Location: 301 Jericho Rd, Smithfield  
Samples Received: 2/3/2015  
Date Analyzed: 2/3/2015

Lab ID	Cust. ID	Sample Date	Sample Location	Non Fibrous	Non Asbestos Fibers	Asbestos Fibers
47137-1	1	2/1/2015	Attic	97% NON FIBROUS MATERIAL	1% ANIMAL HAIR 1% SYNTHETIC FIBER 1% CELLULOSE FIBER	None Detected
1	Yes	Beige Fibrous/Granular Scratch Coat-Like Material				
47137-2	2	2/1/2015	Exterior	100% NON FIBROUS MATERIAL		None Detected
1	Yes	White Granular Glazing				



Analyst: Kim Mantey

NIST Signatory: Kim Mantey, Sr Microscopist

Date Released: 2/3/2015

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ASBESTOS FIELD INSPECTION FORM/CHAIN OF CUSTODY

ALS Project #: 10733 <sup>Outside</sup> Project Name: ~~Electric~~ Kitchen Inspector(s): Steffens | Hawthorn Project Location: 301 Jericho Rd, Smithfield VA

ALS Lims #: 47131

Date Sampled: 2/11/15 Results Due: 24 hrs

Sample #	Sample Description	Sample Location	Quantity	*Condition G/D/SD	Friable Y/N
1	Wall Plaster	Attic	20 SF	SP	Y
2	<del>Exterior</del> Window glaze	Exterior	210 LF	SD	N

\*Condition - (G) Good (D) Damaged (SD) Significantly Damaged

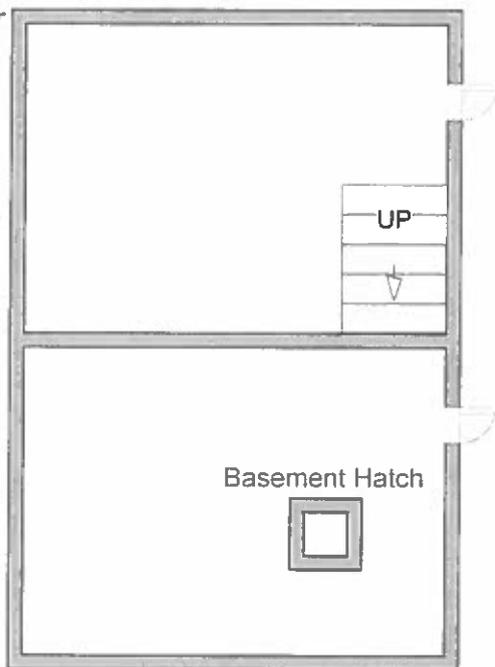
Special Instructions:

Released By: C. Hawthorn Company: ALS Date/Time: 2/11/15 Received By: [Signature] Company: ALS Date/Time: 2/13/15

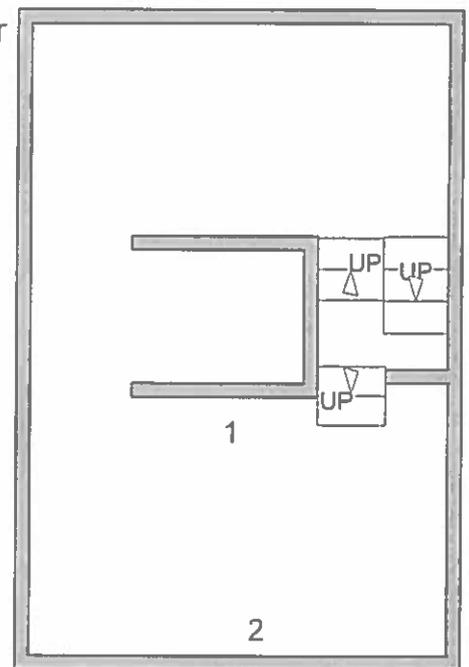
Released By: \_\_\_\_\_ Company: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received By: \_\_\_\_\_ Company: \_\_\_\_\_ Date/Time: \_\_\_\_\_

# Asbestos Inspection Sample Location Diagram Windsor Castle Outside Kitchen February 4, 2015

First Floor



Second Floor



**APPENDIX L – CARPORT ADJACENT TO  
OUTSIDE KITCHEN**

**APPLIED  
LABORATORY  
SERVICES**

Commonwealth of Virginia Asbestos  
Analytical Laboratory # 3333000153  
NVLAP Lab # 200515-0

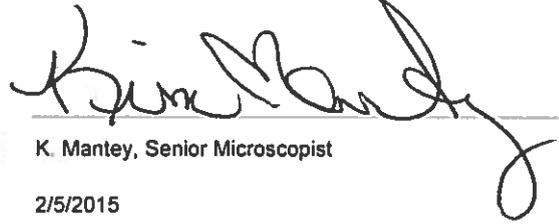
*Certificate of Analysis*  
*Analysis of Bulk Building Materials by Polarized Light Microscopy Techniques*  
*EPA Test Method (EPA/600/R-93/116)*

ALS Account: 01-163  
Customer: ALS Consulting  
4101 Granby Street  
Norfolk, VA 23504  
P O:  
TAT: ALS 24 Hour

LIMS ID: ALS-2015-47147  
Project Name: Carport Adj. to Ext. Kitchen  
ProjectNo: 10733  
Location: 301 Jericho Rd, Smithfield  
Samples Received: 2/3/2015  
Date Analyzed: 2/4/2015

Lab ID	Cust. ID	Sample Date	Sample Location	Non Fibrous	Non Asbestos Fibers	Asbestos Fibers
47147-1	1	2/2/2015	Roof	100% NON FIBROUS MATERIAL		None Detected
1	Yes	White Adhesive Mastic				
47147-1	1	2/2/2015	Roof	20% NON FIBROUS MATERIAL	80% CELLULOSE FIBER	None Detected
2	Yes	Black Fibrous Tar Paper				

Sample analyzed as individual layers.



Analyst: Kim Mantey

NIST Signatory: K. Mantey, Senior Microscopist

Date Released: 2/5/2015

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ASBESTOS FIELD INSPECTION FORM/CHAIN OF CUSTODY

ALS Project #: 10733 Project Name: Carport adj. to exterior Project Location: 301 Jericho Rd. Smithfield, VA

Date Sampled: 2/2/15 Results Due: 24 hrs Inspector(s): STEFFENS / HAWDETH ALS Lims #: 47197

Sample #	Sample Description	Sample Location	Quantity	*Condition G/D/SD	Friable Y/N
1	Tar paper sublayer	Roof	200 SF	SD	N

\*Condition - (G) Good (D) Damaged (SD) Significantly Damaged

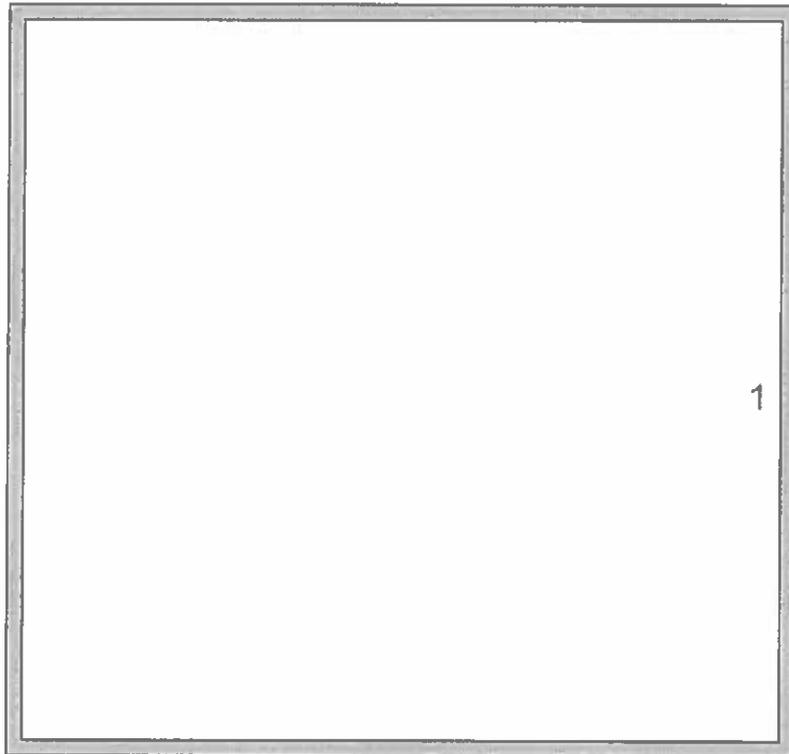
Special Instructions:

Released By: Charles ALS Company ALS Date/Time 2/2/15 Received By: Jarvis Ford Company ALS Date/Time 2/3/15

Released By: \_\_\_\_\_ Company \_\_\_\_\_ Date/Time \_\_\_\_\_ Received By: \_\_\_\_\_ Company \_\_\_\_\_ Date/Time \_\_\_\_\_

Asbestos Inspection  
Sample Location Diagram  
Windsor Castle  
Carport Adjacent to Outside Kitchen  
February 6, 2015

Roof



**APPENDIX M – PUMP HOUSE AND MACHINERY  
COVER**

**APPLIED  
LABORATORY  
SERVICES**

Commonwealth of Virginia Asbestos  
Analytical Laboratory # 3333000153  
NVLAP Lab # 200515-0

**Certificate of Analysis**  
*Analysis of Bulk Building Materials by Polarized Light Microscopy Techniques  
EPA Test Method (EPA/600/R-93/116)*

ALS Account: 01-163  
Customer: ALS Consulting  
4101 Granby Street  
Norfolk, VA 23504  
P O:  
TAT: ALS 24 Hour

LIMS ID: ALS-2015-47148  
Project Name: Pump House and Machine  
ProjectNo: 10733  
Location: 301 Jericho Rd, Smithfield  
Samples Received: 2/3/2015  
Date Analyzed: 2/4/2015

Lab ID	Cust. ID	Sample Date	Sample Location	Non Fibrous	Non Asbestos Fibers	Asbestos Fibers
Layer	Homogenous	Description				
47148-1	1	2/2/2015	Pump House Roof	80% NON FIBROUS MATERIAL	20% CELLULOSE FIBER	None Detected
1	No	Black Fibrous/Granular Shingle				
47148-2	2	2/2/2015	Pump House Roof	20% NON FIBROUS MATERIAL	80% CELLULOSE FIBER	None Detected
1	Yes	Black Fibrous Tar Paper				
47148-3	3	2/2/2015	Associated Machinery/Cover Roof	100% NON FIBROUS MATERIAL		None Detected
1	Yes	Grey Granular Silver Coat				



Analyst: Kim Mantey

NIST Signatory: K. Mantey, Senior Microscopist

Date Released: 2/5/2015

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**ASBESTOS FIELD INSPECTION FORM/CHAIN OF CUSTODY**

ALS Project #: 10733      Project Name: PUMP HOUSE ; ASSOCIATED      Project Location: 301 JERICHO RD, SMITHFIELD, VA

47148

ALS Lims #:

Inspector(s): HAROLD STEFFENS

Results Due: 24 HRS

Sample #	Sample Description	Sample Location	Quantity	*Condition G/D/SD	Friable Y/N
1	SHINGLE SUBLAYER	PUMP HOUSE ROOF	50 SF	PG	N
2	TAR PAPER SUBLAYER	PUMP HOUSE ROOF	50 SF	G	N
3	SILVER COAT	ASSOCIATED MACHINERY COVER ROOF	30 SF	G	N

\*Condition - (G) Good      (D) Damaged      (SD) Significantly Damaged

**Special Instructions:**

Released By: C. Harold Steffens      Company: ALS      Date/Time: 2/2/15

Received By: James J. Andrews      Company: ALS      Date/Time: 2/13/15

Released By: \_\_\_\_\_      Company: \_\_\_\_\_      Date/Time: \_\_\_\_\_

Received By: \_\_\_\_\_      Company: \_\_\_\_\_      Date/Time: \_\_\_\_\_

Asbestos Inspection  
Sample Location Diagram  
Windsor Castle  
Pump Station and Machinery Cover  
February 6, 2015

