



# **SURVEY REPORT FOR ASBESTOS AND LEAD-BASED PAINT**

Prepared For:

**TALLEY & SMITH ARCHITECTURE, INC.  
409 EAST MARION STREET  
SHELBY, NORTH CAROLINA 28150**

Regarding:

**DELIVERY ORDER No. 0030  
RENOVATION, BLDG. M104 (MEDICAL TRAINING)  
MARINE CORPS BASE – CAMP JOHNSON  
JACKSONVILLE, NORTH CAROLINA**

Prepared By:

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**ISSUE DATE: SEPTEMBER 30, 2019**

**ACES PROJECT: 2019-05-037**



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JACKSONVILLE, NORTH CAROLINA**

**ACES Project No.: 2019-05-037**

**September 30, 2019**

Prepared by:

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# **SURVEY REPORT FOR ASBESTOS AND LEAD-BASED PAINT**

**RENOVATION, BLDG. M104 (MEDICAL TRAINING)**

**MARINE CORPS BASE – CAMP JOHNSON**

**JACKSONVILLE, NORTH CAROLINA**

## **1.0 INTRODUCTION**

As authorized by Talley & Smith Architecture, Inc. on April 12, 2019, personnel of Allied Consulting and Environmental Services, LLC (ACES) performed a non-invasive survey for suspect asbestos containing materials (ACM) and a limited lead-based paint (LBP) survey for building M-104 at the Marine Corps Base – Camp Johnson in Jacksonville, North Carolina on June 25, 2019. The surveys were conducted for the purpose of identifying asbestos containing materials and lead-based painted materials that may be impacted by the proposed renovation of the Building M-104.

## **2.0 GENERAL BACKGROUND INFORMATION**

### **2.1 Asbestos**

The term “asbestos” refers to a group of naturally-occurring, fibrous minerals that are commercially mined throughout the world, primarily in Canada, Russia, and South Africa. Asbestos has been used in hundreds of products. Collectively, these products are referred to as asbestos-containing materials (ACMs). Asbestos gained wide use because it is plentiful, readily available, low in cost, and because of its unique properties – fire resistance, high tensile strength, resistance, and insulating characteristics.

As an insulator, asbestos received wide spread use for thermal insulation and condensation control. Asbestos is added to a variety of building materials to enhance strength. It is found in concrete and concrete-like products. Asbestos cement products are used as siding and roofing shingles, wallboard, as corrugated or flat sheets for roofing and partition walls, and as piping. Asbestos has also been added to asphalt, vinyl, and other materials to make products like roofing cements, felts and shingles, exterior siding materials, floor tiles, joint compounds, and mastics/adhesives. Asbestos also proved valuable as a component of acoustical plaster. This material was troweled-on or sprayed-on to ceilings or walls. As a decorative product, asbestos was frequently used to texture ceilings, walls, and other painted surfaces. Asbestos is still mined commercially and used in many common products, including brake shoes, roofing materials, and flooring products. It is important to realize that commercially available products containing asbestos can still be purchased. It is a common misconception that asbestos is no longer used.

The three most commonly encountered types of asbestos are sometimes referred to by their predominant color. Chrysotile (white) is by far the most frequently used asbestos mineral, constituting approximately 95% of all commercial and industrial applications. Chrysotile fibers



are long and flexible and can be spun or woven into cloth. Amosite (brown) and crocidolite (blue) are used in approximately 4-5% of asbestos-containing products.

The U.S. Environmental Protection Agency promulgated the National Emission Standards for Hazardous Air Pollutants (NESHAP) [40 CFR Part 61], which addresses the application, removal, and disposal of asbestos-containing materials (ACM). Under NESHAP, the following categories are defined for asbestos-containing materials:

Friable - When dry, can be crumbled, pulverized, or reduced to powder by hand pressure.

Nonfriable - When dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

Category I Nonfriable ACM - Packings, gaskets, resilient floor coverings, and asphalt roofing products containing more than 1% asbestos.

Category II Nonfriable ACM – Any material excluding Category I Nonfriable ACM containing more than 1% asbestos.

Regulated Asbestos Containing Material (RACM) – RACM include one of the following:

- 1) Friable ACM
- 2) Category I Nonfriable ACM that has become friable.
- 3) Category I Nonfriable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading.
- 4) Category II Nonfriable ACM that has a high probability of becoming, or has become, friable by the forces expected to act on the material in the course of demolition or renovation operations.

Under NESHAP, the following actions are required:

- 1) Prior to the commencement of demolition or renovation activities, the building owner must inspect the affected facility or part of the facility where the demolition or renovation activities will occur for the presence of asbestos.
- 2) Remove all RACM from the facility before any activity begins that would break up, dislodge, or similarly disturb the material or preclude access for subsequent removal.
- 3) RACM need not be removed if:
  - a) It is Category I nonfriable ACM that is not in poor condition.
  - b) It is on a facility component that is encased in concrete or other similar material and is adequately wet whenever exposed.
  - c) It was not accessible for testing and was therefore not discovered until after demolition began and because of the demolition the material cannot be safely removed.



- d) It is Category II non-friable ACM and the probability is low that the material will become crumbled, pulverized, or reduced to powder during demolition.

The Occupational Safety and Health Administration (OSHA) has established three sets of regulatory standards pertaining to asbestos exposure:

29 CFR 1910.1001	General Industry
29 CFR 1926.1101	Construction Industry
29 CFR 1910.134	Respiratory Protection

The construction industry standard covers activities involving asbestos demolition, removal, alteration, repair, maintenance, installation, cleanup, transportation, disposal, and storage. The general industry standard covers other activities where asbestos exposure is possible. Addressed under the OSHA standards are building owner / employer responsibilities regarding the identification of identified or presumed asbestos containing materials (PACM), notification to tenants / employees of the presence of asbestos, employee training, and work procedures.

## 2.2 Lead-based Paint

Lead-based paint is paint containing lead, a heavy metal, which is used as pigment. Lead chromate ( $PbCrO_4$  - "chrome yellow") and lead carbonate ( $PbCO_3$  - "white lead") are the most common lead compounds used as pigments. Lead is also added to paint to speed drying, increase durability, retain a fresh appearance, and resist moisture that causes corrosion. Paint with significant lead content is still used in industry and by the military. For example, leaded paint is sometimes used to paint roadway markings and parking lot lines.

Although lead improves paint performance, it is a dangerous substance. It is especially damaging to children under age six whose bodies are still developing. Lead causes nervous system damage, hearing loss, stunted growth, and delayed development. It can cause kidney damage and affects every organ system of the body. It also is dangerous to adults, and can cause reproductive problems for both men and women. One myth related to lead-based paint is that the most common cause of poisoning was eating leaded paint chips. In fact, the most common pathway of childhood lead exposure is through ingestion of lead dust through normal hand-to-mouth contact during which children swallow lead dust dislodged from deteriorated paint or lead dust generated during remodeling or painting. Lead dust from remodeling or deteriorated paint lands on the floor near where children play and can ingest it.

Paint containing more than 0.06% (600 ppm) lead was banned for residential use in the United States in 1978 by the U.S. Consumer Product Safety Commission (16 Code of Federal Regulations CFR 1303). The U.S. Government defines "lead-based paint" as any "paint, surface coating that contains lead equal to or exceeding one milligram per square centimeter ( $1.0 \text{ mg/cm}^2$ ) or 0.5% by weight." These definitions are used to enforce regulations that apply to certain activities conducted in housing constructed prior to 1978, such as abatement, or the permanent elimination of a "lead-based paint hazard." Construction activities that involve LBP are addressed OSHA in 29 CFR 1926.62 (Lead in Construction).



### **2.3 Project Scope**

The scope of this survey included the interior and exterior of Building M-104 as designated on drawings furnished by Talley & Smith Architecture, Inc., the proposed scope of work provided to ACES, and as discussed in our conversation on April 12, 2019. It is our understanding that the building will be renovated in the near future.

## **3.0 METHODOLOGY**

### **3.1 Asbestos**

For this project, a visual, non-invasive survey and sampling for suspect asbestos containing materials (ACM) was conducted at the above referenced building. ACES personnel submitted a total of twenty-six (26) bulk samples of suspect ACM that may be impacted by the planned renovation project. Samples were collected by a NC Licensed Asbestos Inspector (DeWitt Whitten - #10706) and submitted to a NVLAP Accredited Asbestos Laboratory (EMSL in Charlotte, NC). Samples were analyzed using Polarized Light Microscopy (PLM) by EPA Method 600/R-93/116. Due to some materials consisting of more than one layer, a total of thirty-six (36) samples were analyzed by the laboratory. Samples included the following materials: roofing materials, drywall, spackling, lay-in ceiling tile, and floor tile and associated mastic. Please refer to the Sample Location Plan (Figure No. 1) and the Chain of Custody sheet in Appendices 1 and 2, respectively, for the approximate sample locations and the specific materials sampled.

During the survey, ACES personnel also reviewed a previously prepared report for Building M-104 provided by personnel of the Camp Lejeune Marine Corps' Environmental Protection office. The report was dated March 29, 2019 (print date). For the purpose of this report, the materials listed in the report are considered presumed asbestos containing materials. These materials are discussed further in Section 4.3 of this report. A copy of the provided report prepared by others is presented in Appendix 3.

### **3.2 Lead-based Paint**

A North Carolina Lead-based Paint Risk Assessor (Mr. DeWitt Whitten, Risk Assessor #120118) performed a limited lead-based paint (LBP) survey of the interior and exterior painted surfaces at one hundred and thirty-five (135) locations for Building M-104. Please refer to the Sample Location Plans (Figure No. 2) and the XRF Field Data Sheets in Appendices 1 and 4, respectively, for the approximate test locations and the specific materials sampled. The testing was conducted using a INNOV-X Portable X-ray Fluorescence (XRF) Analyzer to screen surface coatings that may contain lead. The sampling for lead-based paint was not a comprehensive surface by surface testing of the paint (*e.g.* a HUD level survey), but consisted of testing representative painted surfaces for the presence of LBP. Surfaces tested included exterior and interior walls, exterior and interior doors and door frames, stair railings and components, columns, and interior roof support components.



#### 4.0 FINDINGS AND RECOMMENDATIONS

##### 4.1 Non-asbestos Containing Materials

Twenty-six (26) of the twenty-six (26) samples analyzed by EMSL did not contain asbestos (i.e. greater than one percent asbestos).

##### 4.2 Asbestos Containing Materials & Presumed Asbestos Containing Materials (PACM)

Asbestos was not detected in the twenty-six (26) samples analyzed by EMSL. However, an asbestos report prepared by others indicated that friable ACM is present in the building. Materials identified that are known or presumed to contain asbestos are summarized in Table 1.

TABLE 1 – SUMMARY OF KNOWN or PRESUMED ACM		
ACM/PACM DESCRIPTION	REPORTED LOCATION	APPROX. QUANTITY
Mudded Fitting Debris	Southside (rear) Crawlspace under poly/sand barrier	1 sq. ft.

##### 4.3 Lead-based Paint

The results of the testing (Appendix 3) revealed that lead-based paint was present at seven (7) locations associated with Building M-104 as shown in Table 2.

TABLE 2 – SUMMARY OF LEAD-BASED PAINT FINDINGS						
FACILITY ID.	XRF TEST NO.	INT./EXT.	FEATURE	SUBSTRATE	COLOR	XRF RDG. <sup>1</sup>
M-104	4	Exterior	Half-wall (porch)	Wood	White	2.54
M-104	6	Exterior	Ceiling (porch)	Wood	White	> 5.0
M-104	59	Exterior	Door Casing	Metal	White	> 1.0
M-104	90	Interior	Column	Concrete	White	1.07
M-104	101	Interior	Wall	Concrete	White	1.09
M-104	120	Interior	Stair Frame	Wood	White	1.93
M-104	121	Interior	Newell Post	Wood	White	2.23

NOTE: <sup>1</sup> units in milligrams per square centimeter (mg/cm<sup>2</sup>)

##### 4.4 Recommendations - ACM & Presumed ACM

Presumed Asbestos Containing Materials (PACM) were identified in the building as shown in Table 1. In their current condition, the materials are considered Friable ACM/PACM. For the purposes of renovation, the identified ACM and PACM should be considered Regulated Asbestos Containing Materials (RACM). These materials and any other suspect ACM where present should be removed prior to the renovation of the facilities by accredited personnel in accordance with applicable local, state, and federal regulations and guidelines. Disposal of the removed RACM should be disposed of in accordance with applicable local, state, and federal regulations/guidelines.

All ACM waste materials resulting from the renovation activities should be collected and disposed of in accordance with applicable state and federal regulations, the project





specifications, and the “Marine Corps Base (MCB) Camp Lejeune Contractor Environmental Guidelines”.

#### **4.5 Recommendations - Lead-based Paint**

Lead-based paint (LBP), i.e. paint that contains lead equal to or exceeding one milligram per square centimeter (1.0 mg/cm<sup>2</sup>), was identified at seven (7) locations on the painted surfaces tested for the building as shown in Table 2. ACES recommends that the lead paint on the various surfaces not be disturbed as a part of the repair/renovation activities unless necessary as a result of the repair and/or renovation. If the painted surfaces must be disturbed, removal of the LBP should be performed in accordance with local, state, and federal regulations.

In addition, lead was identified on other painted surfaces but the concentration did not meet the definition of LBP. For painted surfaces where LBP was not present but lead was present and would be impacted by the renovation activities, the necessary protection for the potential exposure to lead that may be present should be addressed as outlined in applicable Occupational Safety and Health Administration (OSHA) regulatory standards.

All waste materials from the renovations should be collected and disposed of in accordance with applicable state and federal regulations, the project specifications, and the “Marine Corps Base (MCB) Camp Lejeune Contractor Environmental Guidelines”.

#### **5.0 LIMITATIONS**

This report has been prepared for the exclusive use of Talley & Smith Architecture, Inc. and their agents with regard to Building M-104 located at Camp Johnson in Jacksonville, North Carolina. This report has been prepared in accordance with generally accepted environmental practices. No other warranty, expressed or implied, is made. Our observations are based upon conditions readily visible at the time of our site visit. We have not verified the completeness or accuracy of the information provided by others.

Materials identified as presumed ACM should be considered to contain asbestos or additional sampling and analysis should be performed to confirm or deny the presence of asbestos.

During the site visit, accessible areas were visually surveyed for the presence of suspect asbestos containing materials (ACM) and lead-based paints (LBP). Inaccessible areas, such as above ceilings or behind walls may have not been surveyed; therefore, all ACM and/or LBP may not have been identified. Areas inspected were those designated by the scope of services. As with any similar survey of this nature, actual conditions exist only at the precise locations from which bulk samples were collected and/or LBP samples measured. Certain inferences are based on the results of this sampling and related testing to form a professional opinion of conditions in areas beyond those from which the samples were collected. No other warranty, expressed or implied, is made.

Under this scope of services, ACES assumes no responsibility regarding response actions (e.g. O&M Plan, encapsulation, abatement, removal, worker notification, etc.) initiated as a result of these findings. It is important to note that the Building Owner has a number of responsibilities

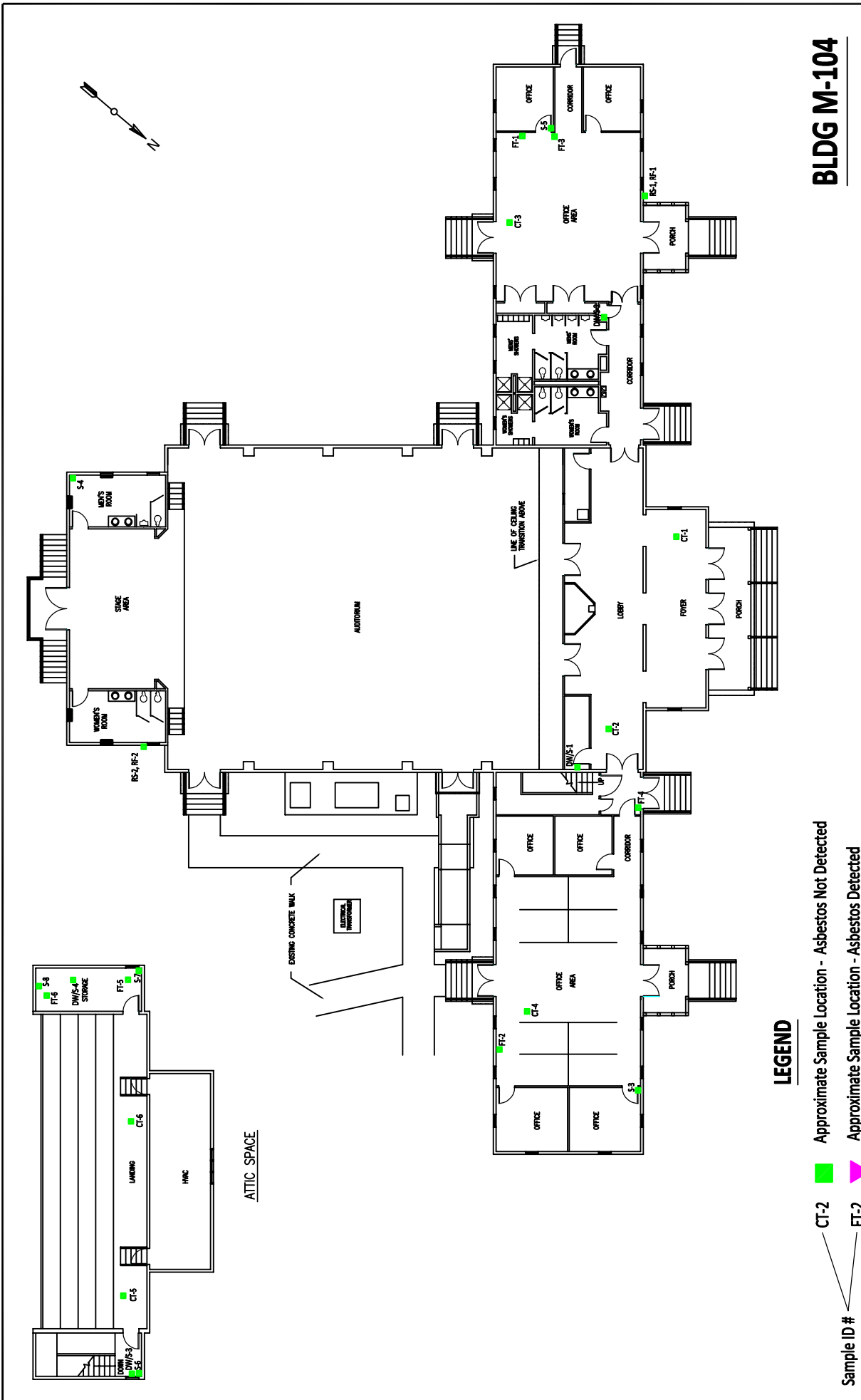


and obligations as found under 40 CFR 745 (also known as Title X) including notification and/or disclosure of all information concerning LBP to workers and buyers. ACES assumes no liability for the duties and responsibilities of the Building Owner with respect to compliance with these regulations. Compliance with regulations and response actions are the sole responsibility of the Building Owner and should be conducted in accordance with local, state and/or federal requirements, and should be performed by appropriately qualified and licensed personnel, as warranted.

ACES, by virtue of providing the services described in this report, does not assume the responsibility of the person(s) in charge of the site, or otherwise undertake responsibility for reporting to any local, state, or federal public agencies any conditions at the site that may present a potential danger to public health, safety, or the environment. It is the client's responsibility to notify the appropriate local, state, or federal public agencies as required by law, or otherwise to disclose, in a timely manner, any information that may be necessary to prevent any danger to public health, safety, or the environment. The contents of this report should not be construed in any way as a recommendation to purchase, sell, or further develop the project site.



**APPENDIX 1**  
**FIGURES**



**BLDG M-104**

**LEGEND**

- Sample ID #
- CT-2 ■ Approximate Sample Location - Asbestos Not Detected
- FT-2 ▲ Approximate Sample Location - Asbestos Detected

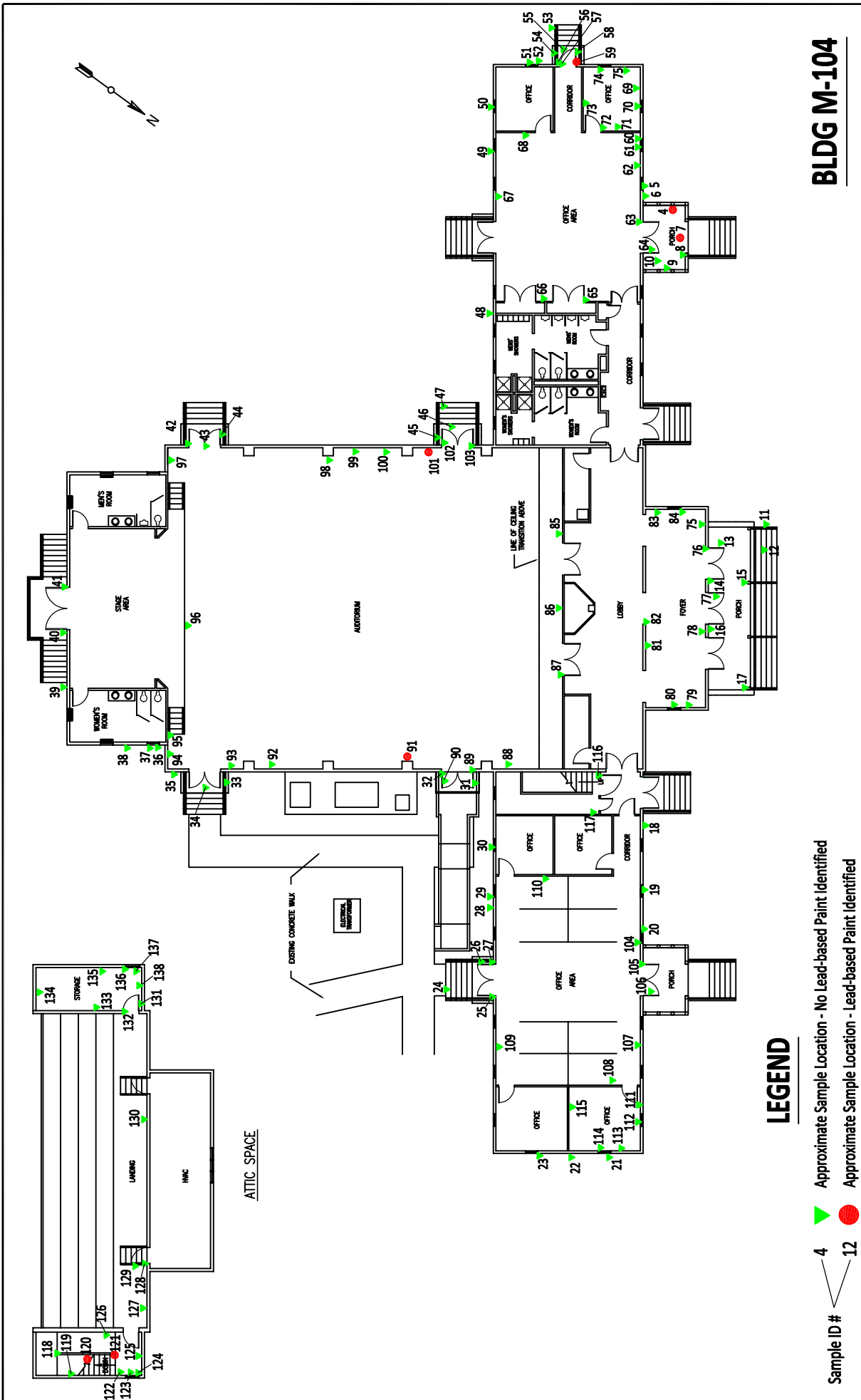
PROJ. NUM.: 2019 - 05 - 037  
 DATE: September 29, 2019

**SAMPLE  
 LOCATION PLAN**

**ALLIED CONSULTING &  
 ENVIRONMENTAL SERVICES**  
 SHELBY, NORTH CAROLINA  
 P.O. BOX 2426 (28151-2426) 704-600-6255  
 409 E. MARION ST. (28150) FAX 704-482-5596

**DELIVERY ORDER 0030  
 RENOVATION, BLDG. M 104  
 MARINE CORPS BASE - CAMP JOHNSON  
 JACKSONVILLE, NORTH CAROLINA**

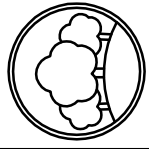
FIGURE  
**1**



**BLDG M-104**

**LEGEND**

- Sample ID # 4 ▲ Approximate Sample Location - No Lead-based Paint Identified
- Sample ID # 12 ● Approximate Sample Location - Lead-based Paint Identified

<p>FIGURE</p> <h1 style="font-size: 48px; margin: 0;">2</h1>	<p><b>DELIVERY ORDER 0030</b>  <b>RENOVATION, BLDG. M 104</b>  <b>MARINE CORPS BASE - CAMP JOHNSON</b>  <b>JACKSONVILLE, NORTH CAROLINA</b></p>
<p>PROJ. NUM.: 2019 - 05 - 037          DATE: September 29, 2019</p>	<div style="text-align: center;">  <p><b>ALLIED CONSULTING &amp;              ENVIRONMENTAL SERVICES</b>              SHELBY, NORTH CAROLINA              P.O. BOX 2426 (28151-2426) 704-600-6255              409 E. MARION ST. (28150) FAX 704-482-5596</p> </div>
<p><b>SAMPLE LOCATION PLAN</b></p>	



**APPENDIX 2**  
**ASBESTOS ANALYTICAL RESULTS**  
**CHAIN OF CUSTODY**



# EMSL Analytical, Inc.

10801 Southern Loop Blvd Pineville, NC 28134

Tel/Fax: (704) 525-2205 / (704) 525-2382

<http://www.EMSL.com> / [charlottelab@emsl.com](mailto:charlottelab@emsl.com)

EMSL Order: 411906390

Customer ID: ALLC25

Customer PO:

Project ID:

**Attention:** Dewitt Whitten  
Allied Consulting & Environmental Svcs  
P.O. Box 2426  
Shelby, NC 28151

**Phone:** (704) 232-0152

**Fax:**

**Received Date:** 06/26/2019 12:50 PM

**Analysis Date:** 07/02/2019

**Collected Date:** 06/24/2019

**Project:** M104/ 2019-06-037

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
RS-1 <small>411906390-0001</small>	Roof Shingle	Gray/Black Fibrous Heterogeneous	5% Glass	15% Quartz 10% Ca Carbonate 70% Non-fibrous (Other)	None Detected
RS-2 <small>411906390-0002</small>	Roof Shingle	Gray/Black Fibrous Homogeneous	5% Glass	5% Quartz 20% Ca Carbonate 70% Non-fibrous (Other)	None Detected
RF-1 <small>411906390-0003</small>	Roof Felt	Black Non-Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (Other)	None Detected
RF-2 <small>411906390-0004</small>	Roof Felt	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
FT-1-Floor Tile <small>411906390-0005</small>	1st Floor - 12x12 Floor Tile - Dk. Blue/Gray	Gray Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
FT-1-Mastic <small>411906390-0005A</small>	1st Floor - 12x12 Floor Tile - Dk. Blue/Gray	Tan Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
FT-2-Floor Tile <small>411906390-0006</small>	1st Floor - 12x12 Floor Tile - Dk. Blue/Gray	Gray Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
FT-2-Mastic <small>411906390-0006A</small>	1st Floor - 12x12 Floor Tile - Dk. Blue/Gray	Tan/Black Non-Fibrous Homogeneous	2% Cellulose	10% Ca Carbonate 88% Non-fibrous (Other)	None Detected
FT-3-Floor Tile <small>411906390-0007</small>	1st Floor - 12x12 Floor Tile - Blue (Patches)	Gray Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
FT-3-Mastic <small>411906390-0007A</small>	1st Floor - 12x12 Floor Tile - Blue (Patches)	Tan Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
FT-4-Floor Tile <small>411906390-0008</small>	1st Floor - 12x12 Floor Tile - Blue (Patches)	Gray/Blue Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
FT-4-Mastic <small>411906390-0008A</small>	1st Floor - 12x12 Floor Tile - Blue (Patches)	Tan Non-Fibrous Homogeneous	1% Cellulose	5% Ca Carbonate 94% Non-fibrous (Other)	None Detected
CT-1 <small>411906390-0009</small>	1st Floor - Lay-In Ceiling Tile - Type 1	Gray/White Fibrous Heterogeneous	60% Cellulose 10% Min. Wool	15% Perlite 15% Non-fibrous (Other)	None Detected
CT-2 <small>411906390-0010</small>	1st Floor - Lay-In Ceiling Tile - Type 1	Gray/White Fibrous Homogeneous	60% Cellulose 10% Min. Wool	20% Perlite 10% Non-fibrous (Other)	None Detected
CT-3 <small>411906390-0011</small>	1st Floor - Lay-In Ceiling Tile - Type 2	Gray/White Fibrous Heterogeneous	60% Cellulose 10% Min. Wool	15% Perlite 15% Non-fibrous (Other)	None Detected
CT-4 <small>411906390-0012</small>	1st Floor - Lay-In Ceiling Tile - Type 2	Gray/White Fibrous Homogeneous	60% Cellulose 10% Min. Wool	20% Perlite 10% Non-fibrous (Other)	None Detected

Initial report from: 07/03/2019 08:12:31



# EMSL Analytical, Inc.

10801 Southern Loop Blvd Pineville, NC 28134

Tel/Fax: (704) 525-2205 / (704) 525-2382

<http://www.EMSL.com> / [charlottelab@emsl.com](mailto:charlottelab@emsl.com)

**EMSL Order:** 411906390  
**Customer ID:** ALLC25  
**Customer PO:**  
**Project ID:**

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
DW/S-1-Drywall <small>411906390-0013</small>	1st Floor - Drywall/Spackling	Gray Fibrous Heterogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
DW/S-1-Joint Compound <small>411906390-0013A</small>	1st Floor - Drywall/Spackling	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
DW/S-1-Tape <small>411906390-0013B</small>	1st Floor - Drywall/Spackling	Tan Non-Fibrous Homogeneous	100% Cellulose		None Detected
DW/S-2-Drywall <small>411906390-0014</small>	1st Floor - Drywall/Spackling	Brown Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
DW/S-2-Joint Compound <small>411906390-0014A</small>	1st Floor - Drywall/Spackling	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
DW/S-2-Tape <small>411906390-0014B</small>	1st Floor - Drywall/Spackling	Tan Fibrous Homogeneous	100% Cellulose		None Detected
S-3 <small>411906390-0015</small>	1st Floor - Spackling	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
S-4 <small>411906390-0016</small>	1st Floor - Spackling	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
S-5 <small>411906390-0017</small>	1st Floor - Spackling	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
CT-5 <small>411906390-0018</small>	2nd Floor - Lay-In Ceiling Tile - Type 3	Gray/White Fibrous Heterogeneous	60% Cellulose 10% Min. Wool	15% Perlite 15% Non-fibrous (Other)	None Detected
CT-6 <small>411906390-0019</small>	2nd Floor - Lay-In Ceiling Tile - Type 3	Gray/White Fibrous Homogeneous	60% Cellulose 10% Min. Wool	20% Perlite 10% Non-fibrous (Other)	None Detected
FT-5-Floor Tile <small>411906390-0020</small>	2nd Floor - 12x12 Floor Tile & Mastic	Gray/Blue Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
FT-5-Mastic <small>411906390-0020A</small>	2nd Floor - 12x12 Floor Tile & Mastic	Tan/Black Non-Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
FT-6-Floor Tile <small>411906390-0021</small>	2nd Floor - 12x12 Floor Tile & Mastic	Gray/Blue Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
FT-6-Mastic <small>411906390-0021A</small>	2nd Floor - 12x12 Floor Tile & Mastic	Tan/Black Non-Fibrous Homogeneous	5% Cellulose	5% Ca Carbonate 90% Non-fibrous (Other)	None Detected
DW-3 <small>411906390-0022</small>	2nd Floor - Drywall	Gray Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
DW-4 <small>411906390-0023</small>	2nd Floor - Drywall	Brown/Gray Fibrous Homogeneous	5% Cellulose 1% Glass	94% Non-fibrous (Other)	None Detected
S-6 <small>411906390-0024</small>	2nd Floor - Spackling	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected

Initial report from: 07/03/2019 08:12:31





# EMSL Analytical, Inc.

10801 Southern Loop Blvd Pineville, NC 28134

Tel/Fax: (704) 525-2205 / (704) 525-2382

<http://www.EMSL.com> / [charlottelab@emsl.com](mailto:charlottelab@emsl.com)

**EMSL Order:** 411906390  
**Customer ID:** ALLC25  
**Customer PO:**  
**Project ID:**

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
S-7 <small>411906390-0025</small>	2nd Floor - Spackling	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
S-8 <small>411906390-0026</small>	2nd Floor - Spackling	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected

Analyst(s) \_\_\_\_\_

Eric Loomis (19)

Katherine Sluder (17)

Lee Plumley, Laboratory Manager  
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Pineville, NC NVLAP Lab Code 200841-0, VA 3333 00312

Initial report from: 07/03/2019 08:12:31



EMSL ANALYTICAL, INC.  
LABORATORY • PRODUCTS • TRAINING

### Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

411906390

PHONE:  
FAX:

Company Name : <b>ACES</b>		EMSL Customer ID: <b>ALLC25</b>	
Street: PO Box 2426		City: Shelby	State/Province: NC
Zip/Postal Code: 28151	Country: USA	Telephone #: 704-600-6255	Fax #: 704482-5596
Report To (Name): DeWitt Whitten		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email	
Email Address: dewitt@aces-env.com		Purchase Order:	
Project Name/Number: <b>M104 / 2019-06-037</b>		EMSL Project ID (Internal Use Only):	
U.S. State Samples Taken: NC		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	
EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different - If Bill to is Different note instructions in Comments** Third Party Billing requires written authorization from third party			
Turnaround Time (TAT) Options* - Please Check <input type="checkbox"/> 3 Hour <input type="checkbox"/> 6 Hour <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input checked="" type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week			
*For TEM Air 3 hr through 6 hr, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.			
<b>PCM - Air</b> <input type="checkbox"/> Check if samples are from NY <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA	<b>TEM - Air</b> <input type="checkbox"/> 4-4.5hr TAT (AHERA only) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312	<b>TEM - Dust</b> <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167)	<b>Soil/Rock/Vermiculite</b> <input type="checkbox"/> PLM EPA 600/R-93/116 with milling prep (<1%) <input type="checkbox"/> PLM EPA 600/R-93/116 with milling prep (<0.25%) <input type="checkbox"/> TEM EPA 600/R-93/116 with milling prep (<0.1%) <input type="checkbox"/> TEM Qualitative via Filtration Prep <input type="checkbox"/> TEM Qualitative via Drop Mount Prep <input type="checkbox"/> Cincinnati Method EPA 600/R-04/004 - PLM/TEM (BC only)
<b>PLM - Bulk (reporting limit)</b> <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6 NOB (non-friable-NY) <input type="checkbox"/> NYS 198.8 SOF-V <input type="checkbox"/> NIOSH 9002 (<1%)	<b>TEM - Bulk</b> <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5 <b>TEM - Water:</b> EPA 100.2 Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	<input type="checkbox"/> Check For Positive Stop - Clearly Identify Homogenous Group    Filter Pore Size (Air Samples): <input type="checkbox"/> 0.8µm <input type="checkbox"/> 0.45µm	
Samplers Name: <i>DeWitt Whitten</i>		Samplers Signature: <i>[Signature]</i>	
Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
RS-1, 2	Roof Shingle		24 June 19 PM
RF-1, 2	Roof Felt		
FT-1, 2	12x12 Floor Tile - Red Blue/Gray 1 <sup>st</sup> Flr		
FT-3, 4	12x12 Floor Tile Blue (Patches) 1 <sup>st</sup> Flr		
CT-1, 2	Lay-in Ceiling Tile - Type 1 1 <sup>st</sup> Flr		
Client Sample # (s): <i>see above &amp; next page</i>		Total # of Samples: <b>26</b>	
Relinquished (Client): <i>[Signature]</i>		Date: <b>26 Jan 2019</b>	Time: <b>1247</b>
Received (Lab): <i>[Signature]</i>		Date: <b>6/26/19</b>	Time: <b>12:50pm W/in</b>
Comments/Special Instructions:			





**APPENDIX 3**  
**ASBESTOS REPORT BY OTHERS**



**ASBESTOS INSPECTION REPORT of:**

**Building # M104**

**MCB CAMP LEJEUNE**



*Print Date*

***Friday, March 29, 2019***

# INSPECTION SUMMARY

**BLDG #:** M104

**YEAR BUILT:** 1943

**OCCUPANT:** US NAVY- FIELD MEDICAL SERVICE  
SCHOOL

**ASBESTOS MANAGER:** Billy Parkin 451-5837

## **BUILDING COMMENTS:**

HAZ RANK 2A/YELLOW [AH AUG2016]  
ACM DEBRIS UNDER POLY SAND BARRIER IN CRAWLSPACE, DO NOT PENETRATE

AUG2016  
ACM ASSUMED TO REMAIN AS PVS.

APR2014  
ACM DEBRIS UNDER POLY SAND BARRIER IN CRAWLSPACE, DO NOT PENETRATE

APR2011  
FRIABLE ACM DEBRIS IN SOUTH CNTR CRAWLSPACE. PVS. ACM REMAINS, ADDL SAMPLING, NO ADDL ACM ID'D

OCT08  
PVS. ACM REMAINS, NO ADDITIONAL ACM IDENTIFIED

AUG05  
PVS. ACM REMAINS

AUG01  
ACM INCLUDES:  
MUDDED FITTING DEBRIS

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## NOTIFICATION OF ACM IN BUILDING

*NOTICE: The following asbestos-containing materials have been identified in this structure. Refer to survey findings for additional information or contact the Asbestos Program Manager. Please note ACM that is intact and undisturbed is not considered a significant health hazard to building occupants.*

### ***Friable ACM(s) identified***

<b>DESCRIPTION</b>	<b>LOCATION</b>	<b>Date</b>	<b>Quantity</b>
MUDDED FITTING DEBRIS	SOUTHSIDE (REAR) CRAWLSPACE UNDER POLY/ SAND BARRIER (ASSUMED)	10/22/2016	1 SF
MUDDED FITTING DEBRIS	SOUTHSIDE (REAR) CRAWLSPACE UNDER POLY/ SAND BARRIER (ASSUMED)	4/28/2014	1 SF
MUDDED FITTING DEBRIS	SOUTHSIDE (REAR) CRAWLSPACE UNDER POLY/ SAND BARRIER (ASSUMED)	5/10/2011	1 SF

### ***Non-friable ACM(s) identified***

<b>DESCRIPTION</b>	<b>LOCATION</b>	<b>Date</b>	<b>Quantity</b>
--------------------	-----------------	-------------	-----------------

**No non friable ACM records found in database**

## Tested Non ACM or REMOVED Materials

DESCRIPTION	LOCATION	Date
DUCT SEALANT, RED	DUCT SYSTEM SEAMS THROUGHOUT	8/20/2001
2'x2' CEILING TILE,	SECOND FLOOR NORTH BALCONY AREA	8/20/2001
ASPHALT SHINGLE AND TAR PAPER	ROOFING SYSTEM	8/20/2001
PLASTER MATERIAL	SOUTHSIDE (REAR) CRAWLSPACE DEBRIS (PREVIOUS WALLS)	8/20/2001
MUDDERED FITTING DEBRIS	SOUTHSIDE (REAR) CRAWLSPACE	8/20/2001
12" GRAY FLOOR TILE AND ADHESIVE	WEST WING HEAD AREA	8/20/2001
12" BLACK FLOOR TILE AND ADHESIVE	WEST WING HEAD AREA	8/20/2001
FIBERGLASS INSULATION SEALANT	STEAM PIT PIPING SYSTEMS	8/20/2001
2'x2' CEILING TILE,	MIXED USE THROUGHOUT BUILDING	8/20/2001
12" LT. BLUE FLOOR TILE AND ADHESIVE	AUDITORIUM AREA	8/20/2001
2'x2' CEILING TILE,	MIXED USE THROUGHOUT BUILDING	8/20/2001
12" GRAY FLOOR TILE AND ADHESIVE	MIXED USE THROUGHOUT BUILDING	8/20/2001
DRYWALL AND JOINT MATERIAL	THROUGHOUT INTERIOR OF STRUCTURE	8/20/2001
BLACK VINYL BASE AND ADHESIVE, 4"	MIXED USE THROUGHOUT BUILDING	8/20/2001
GRAY VINYL BASE AND ADHESIVE, 4"	MIXED USE THROUGHOUT BUILDING	8/20/2001
12" WHITE w/ GRAY FLOOR TILE AND ADHESIVE	NORTH WINGS	8/20/2001
ROOFING SEALANT, GRAY	AT STEP FLASHING AREAS	8/20/2001
2'x2' CEILING TILE,	MIXED USE THROUGHOUT THE BUILDING	8/20/2001
INTERIOR CAULKING,	METAL REPLACEMENT WINDOWS	4/13/2011
VAPOR BARRIER	ATTIC DORMERS AND EXTERIOR WALLS	4/13/2011
EXTERIOR CAULKING,	METAL REPLACEMENT WINDOWS	4/13/2011
12" BLUE FLOOR TILE AND ADHESIVE	NEW TILE, THROUGHOUT	4/13/2011
PIPE INSULATION	ATTIC HVAC EQUIPMENT	8/20/2001
MUDDERED FITTING DEBRIS	SOUTHSIDE (REAR) CRAWLSPACE	8/17/2005
MUDDERED FITTING DEBRIS	SOUTHSIDE (REAR) CRAWLSPACE	10/8/2008
12" WHITE w/ GRAY FLOOR TILE AND ADHESIVE	AUDITORIUM AREA	10/8/2008
MUDDERED FITTING DEBRIS	SOUTHSIDE (REAR) CRAWLSPACE	4/13/2011
12" GRAY FLOOR TILE AND ADHESIVE	EAST WING UNDER SAFE (OLD TILE REMOVED, REPLACED w/HM20 THROUGHOUT)	4/13/2011
DRYWALL AND JOINT MATERIAL	THROUGHOUT INTERIOR OF STRUCTURE	4/13/2011

### HEALTH ASPECTS:

ACM only presents a health hazard when asbestos fibers are airborne and inhaled. Avoid disturbance which will release fibers. The presence of asbestos does not constitute a health hazard.

- CONDITIONS TO AVOID:** Do not disturb or cause damage to ACM. Do not sand, grind or abrade materials or cause damage with any type of equipment.
- REPORTS OF DAMAGE:** Report any damage, dust or debris that may come from ACM or suspect ACM, or any change in the condition of materials, or accidental disturbance to the Asbestos Program Manager.
- RESPONSE ACTION:** Corrective action initiated to minimize fiber release and protect personnel.
- INSPECTION:** ACM will be inspected periodically to evaluate any changes in condition.
- RECORDKEEPING:** The Camp Lejeune Asbestos Program Manager maintains a copy of the survey for the building.

---

**CAMP LEJEUNE Asbestos Program Manager**

**Phone: (910) 451-5837**



# SAMPLES COLLECTED

Sample	HA	Description	Sample Date	Sample Location	Chr (%)	Amo (%)	Oth (%)
M104-01-01	01	2'x2' CEILING TILE, TYPE I	8/20/2001	EAST WING	0	0	0
M104-01-02	01	2'x2' CEILING TILE, TYPE I	8/20/2001	AUDITORIUM AREA	0	0	0
M104-02-01	02	2'x2' CEILING TILE, TYPE II	8/20/2001	EAST WING	0	0	0
M104-02-02	02	2'x2' CEILING TILE, TYPE II	8/20/2001	AUDITORIUM AREA	0	0	0
M104-03-01	03	12" GRAY FLOOR TILE AND ADHESIVE	8/20/2001	EAST WING	0	0	0
M104-03-02	03	12" GRAY FLOOR TILE AND ADHESIVE	8/20/2001	WEST WING	0	0	0
M104-03-10	03	12" GRAY FLOOR TILE AND ADHESIVE	4/13/2011	EAST WING, NORTH CNTR UNDER SAFE	0	0	0
M104-03-10tem	03	12" GRAY FLOOR TILE AND ADHESIVE	4/13/2011	EAST WING, NORTH CNTR UNDER SAFE	0	0	0
M104-04-01	04	DRYWALL AND JOINT MATERIAL	8/20/2001	EAST WING	0	0	0
M104-04-02	04	DRYWALL AND JOINT MATERIAL	8/20/2001	LOBBY AREA	0	0	0
M104-04-03	04	DRYWALL AND JOINT MATERIAL	8/20/2001	WEST WING	0	0	0
M104-04-04	04	DRYWALL AND JOINT MATERIAL	8/20/2001	2ND FLOOR/ OLD BALCONY AREA	0	0	0
M104-04-10	04	DRYWALL AND JOINT MATERIAL	4/13/2011	2ND FL NORTH MECH RM WALL	0	0	0
M104-04-11	04	DRYWALL AND JOINT MATERIAL	4/13/2011	2ND FL MECH RM, WEST WALL	0	0	0
M104-04-12	04	DRYWALL AND JOINT MATERIAL	4/13/2011	2ND FL MECH RM, WEST CEILING	0	0	0
M104-05-01	05	2'x2' CEILING TILE, TYPE III	8/20/2001	AUDITORIUM AREA	0	0	0
M104-05-02	05	2'x2' CEILING TILE, TYPE III	8/20/2001	Not Available	0	0	0
M104-06-01	06	12" LT. BLUE FLOOR TILE AND ADHESIVE	8/20/2001	AUDITORIUM AREA	0	0	0
M104-07-01	07	BLACK VINYL BASE AND ADHESIVE, 4"	8/20/2001	AUDITORIUM AREA, NW	0	0	0

Sample	HA	Description	Sample Date	Sample Location	Chr (%)	Amo (%)	Oth (%)
M104-08-01	08	GRAY VINYL BASE AND ADHESIVE, 4"	8/20/2001	CNTR NORTH HALL	0	0	0
M104-09-01	09	12" WHITE w/ GRAY FLOOR TILE AND ADHESIVE	8/20/2001	NORTHSIDE, WEST WING CNTR	0	0	0
M104-09-10	09	12" WHITE w/ GRAY FLOOR TILE AND ADHESIVE	10/8/2008	STORAGE ROOM	0	0	0
M104-10-01	10	12" GRAY FLOOR TILE AND ADHESIVE	8/20/2001	WEST WING, SHOWER AREA	0	0	0
M104-11-01	11	12" BLACK FLOOR TILE AND ADHESIVE	8/20/2001	WEST WING SHOWER AREA	0	0	0
M104-12-01	12	PIPE INSULATION BLACK	8/20/2001	ATTIC HVAC EQUIPMENT	0	0	0
M104-13-01	13	DUCT SEALANT, RED	8/20/2001	2ND FL NORTH, OLD BALCONY	0	0	0
M104-14-01	14	2'x2' CEILING TILE, TYPE IV	8/20/2001	2ND FLOOR BALCONY AREA	0	0	0
M104-15-01	15	ASPHALT SHINGLE AND TAR PAPER	8/20/2001	EAST WING, NORTH CNTR	0	0	0
M104-16-01	16	ROOFING SEALANT, GRAY	8/20/2001	EAST WING ROOF, NORTH CNTR	0	0	0
M104-17-01	17	FIBERGLASS INSULATION SEALANT TAN	8/20/2001	NW STEAM PIT	0	0	0
M104-18-01	18	PLASTER MATERIAL	8/20/2001	SOUTH CNTR CRAWLSPACE	0	0	0
M104-19-00ri05	19	MUDDERED FITTING DEBRIS	8/17/2005	N/A	9	9	9
M104-19-00ri07	19	MUDDERED FITTING DEBRIS	10/8/2008	N/A	9	9	9
M104-19-00ri10	19	MUDDERED FITTING DEBRIS	4/13/2011	N/A	19	19	19
M104-19-00ri13	19	MUDDERED FITTING DEBRIS	4/28/2014	N/A	9	9	9
M104-19-00ri13	19	MUDDERED FITTING DEBRIS	5/10/2011	N/A	9	9	9
M104-19-00ri16	19	MUDDERED FITTING DEBRIS	8/22/2016	N/A	9	9	9
M104-19-01	19	MUDDERED FITTING DEBRIS	8/20/2001	SOUTH CRAWLSPACE, EAST	35	0	0

Sample	HA	Description	Sample Date	Sample Location	Chr (%)	Amo (%)	Oth (%)
M104-20-10	20	12" BLUE FLOOR TILE AND ADHESIVE	4/13/2011	EAST WING, NORTH CNTR	0	0	0
M104-20-11	20	12" BLUE FLOOR TILE AND ADHESIVE	4/13/2011	WEST WIGN, NW MAIN RM	0	0	0
M104-21-10	21	INTERIOR CAULKING, WHITE	4/13/2011	EAST WING, NW WINDOW	0	0	0
M104-21-11	21	INTERIOR CAULKING, WHITE	4/13/2011	2ND FL MECH RM, NW	0	0	0
M104-22-10	22	VAPOR BARRIER BLACK	4/13/2011	WEST WING ATTIC, SE	0	0	0
M104-22-11	22	VAPOR BARRIER BLACK	4/13/2011	WEST WING, NW OVHD	0	0	0
M104-23-10	23	EXTERIOR CAULKING, WHITE	4/13/2011	EAST WING, EAST END, SOUTH WINDOW	0	0	0
M104-23-11	23	EXTERIOR CAULKING, WHITE	4/13/2011	WEST WING, NORTHSIDE WEST WINDOW	0	0	0

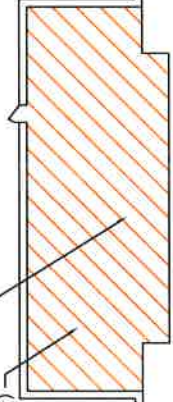
**CAUTION**

POTENTIAL FOR ACM TSI DEBRIS  
UNDER FILL SAND/POLY LAYER.

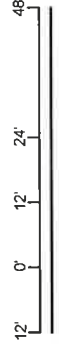
18-01(-)

19-01(+)

17-01(-)



**BUILDING M104  
CRAWLSPACE**



**ACM LEGEND**

POTENTIAL TSI-DEBRIS (HM19)

**SAMPLE LEGEND**

SAMPLE IDENTIFICATION

01-01 (-) POSITIVE (+) NEGATIVE (-) OR TRACE  
(TR) FOR THE PRESENCE OF ASBESTOS

HOMOGENEOUS MATERIAL

REVISIONS

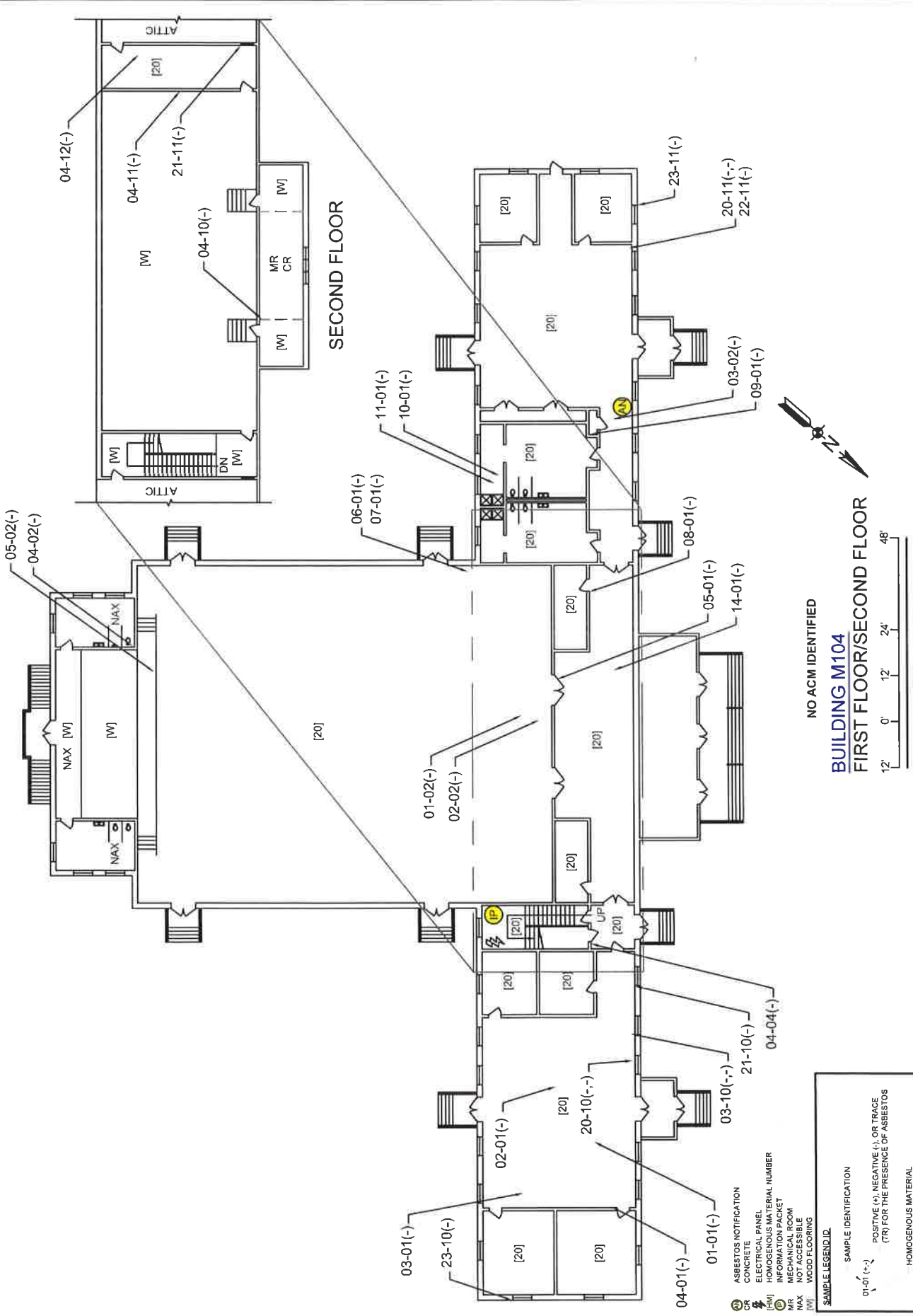
NO.	DATE	DESCRIPTION



MCB CAMP LEJUNE, NC

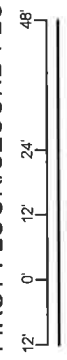


CY2016 ASBESTOS INSPECTION  
M104-CS  
MCB CAMP LEJUNE, NC



NO ACM IDENTIFIED

**BUILDING M104**  
**FIRST FLOOR/SECOND FLOOR**



**SAMPLE LEGEND**

SAMPLE IDENTIFICATION  
01-01 (+,-)

POSITIVE (+), NEGATIVE (-), OR TRACE  
(TR) FOR THE PRESENCE OF ASBESTOS

HOMOGENEOUS MATERIAL

- ASBESTOS NOTIFICATION
- CONCRETE
- ELECTRICAL PANEL
- HOMOGENEOUS MATERIAL NUMBER
- MATERIAL IDENTIFICATION
- MECHANICAL ROOM
- NOT ACCESSIBLE
- WOOD FLOORING

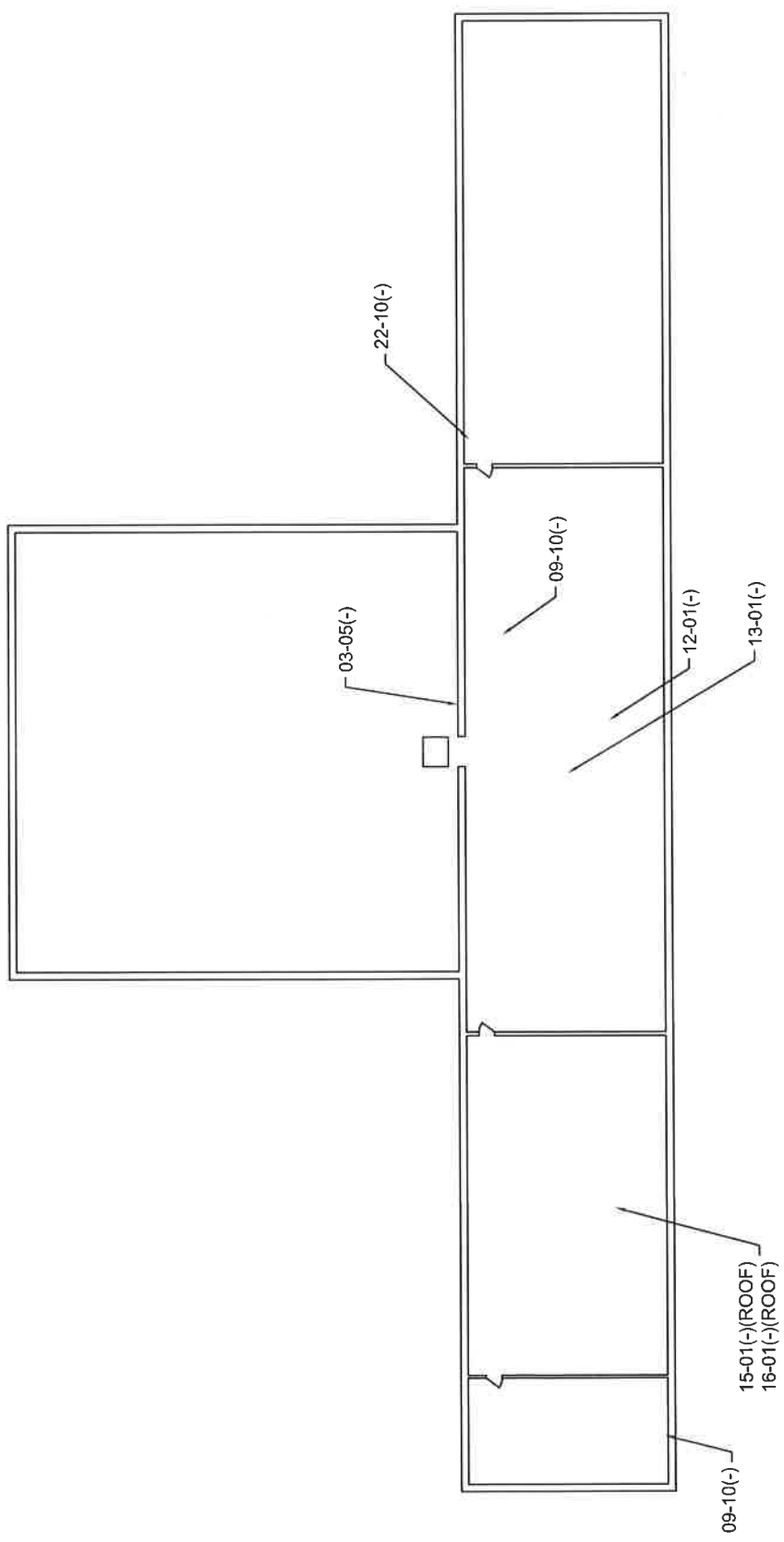
REVISIONS	



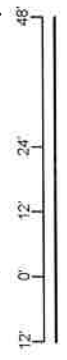
MCB CAMP LEJEUNE, NC



CY2016 ASBESTOS INSPECTION  
M104-A/R  
MCB CAMP LEJEUNE, NC



NO ACM IDENTIFIED  
**BUILDING M104**  
**ATTIC/ROOF**



SAMPLE LEGEND	
	SAMPLE IDENTIFICATION
01-01(-)-2	POSITIVE (+), NEGATIVE (-) OR TRACE (TR) FOR THE PRESENCE OF ASBESTOS
	HOMOGENEOUS MATERIAL



**APPENDIX 4**  
**XRF FIELD DATA SHEETS**



**XRF LBP TESTING DATA SHEET**

PROJECT NAME/ADDRESS/UNIT NO. Building M 104; Camp Johnson; Jacksonville, NC		PROJECT NO.	2019 - 05 - 037	DATE	25 June 2019			
XRF MODEL/SERIAL NO. INNOVX LBP 4000 #11916		INSPECTOR NAME/NO. DeWitt Whitten, NCRA 220118						
SAMPLE #	SUBSTRATE <sup>1</sup>	COMPONENT	COLOR <sup>2</sup>	TEST LOCATION	LEVEL	XRF READING	UNITS <sup>3</sup>	CLASSIFICATION <sup>4</sup>
4	W	Half wall (porch)	W		1 <sup>st</sup>	2.54	mg/cm <sup>2</sup>	P
5	M	Window sill	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
6	Vinyl	Wall (siding)	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
7	W	Ceiling	W		1 <sup>st</sup>	> 5.0	mg/cm <sup>2</sup>	P
8	M	Column	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
9	M	Door	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
10	M	Top rail of half wall	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
11	W	Floor (porch)	Gr		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
12	C	Steps	Gr		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
13	M	Door	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
14	M	Door frame	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
15	M	Column	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
16	Vinyl	Wall (siding)	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
17	M	Column	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
18	Vinyl	Wall (siding)	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
19	M	Window sill	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
20	M	Window casing	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
21	M	Window sill	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
22	Vinyl	Wall (siding)	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
23	M	Window casing	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N

SIGNATURE *[Handwritten Signature]*

1) M - metal  
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3) mg/cm<sup>2</sup> - milligrams/square centimeter

4) N - Negative  
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**XRF LBP TESTING DATA SHEET**

PROJECT NAME/ADDRESS/UNIT NO. Building M 104; Camp Johnson; Jacksonville, NC		PROJECT NO.	2019 - 05 - 037	DATE	25 June 2019			
XRF MODEL/SERIAL NO. INNOVX LBP 4000 #11916		INSPECTOR NAME/NO. DeWitt Whitten, NCRA 220118						
SAMPLE #	SUBSTRATE <sup>1</sup>	COMPONENT	COLOR <sup>2</sup>	TEST LOCATION	LEVEL	XRF READING	UNITS <sup>3</sup>	CLASSIFICATION <sup>4</sup>
24	C	Stairs	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
25	M	Door casing	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
26	M	Door	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
27	M	Door frame	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
28	Vinyl	Wall (siding)	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
29	M	Window casing	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
30	M	Window sill	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
31	M	Door	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
32	M	Door frame	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
33	W	Canopy support	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
34	W	Canopy ceiling	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
35	Vinyl	Wall (siding)	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
36	C	Steps	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
37	M	Window sill	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
38	M	Window casing	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
39	Vinyl	Wall (siding)	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
40	M	Door	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
41	M	Door frame	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
42	M	Door casing	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
43	M	Door frame	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N

SIGNATURE *DeWitt Whitten*

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**XRF LBP TESTING DATA SHEET**

PROJECT NAME/ADDRESS/UNIT NO. Building M 104; Camp Johnson; Jacksonville, NC		PROJECT NO.	2019 - 05 - 037	DATE	25 June 2019				
XRF MODEL/SERIAL NO. INNOVX LBP 4000 #11916		INSPECTOR NAME/NO. DeWitt Whitten, NCRA 220118							
SAMPLE #	SUBSTRATE <sup>1</sup>	COMPONENT	COLOR <sup>2</sup>	TEST LOCATION	LEVEL	SIGNATURE	XRF READING	UNITS <sup>3</sup>	CLASSIFICATION <sup>4</sup>
44	M	Door	W		1 <sup>st</sup>	<i>DeWitt Whitten</i>	0.00	mg/cm <sup>2</sup>	N
45	W	Canopy support	W		1 <sup>st</sup>		0.00	mg/cm <sup>2</sup>	N
46	W	Canopy ceiling	W		1 <sup>st</sup>		0.00	mg/cm <sup>2</sup>	N
47	C	Steps	W		1 <sup>st</sup>		0.00	mg/cm <sup>2</sup>	N
48	Vinyl	Wall (siding)	W		1 <sup>st</sup>		0.00	mg/cm <sup>2</sup>	N
49	M	Window casing	W		1 <sup>st</sup>		0.00	mg/cm <sup>2</sup>	N
50	M	Window sill	W		1 <sup>st</sup>		0.00	mg/cm <sup>2</sup>	N
51	M	Window sill	W		1 <sup>st</sup>		0.00	mg/cm <sup>2</sup>	N
52	M	Window casing	W		1 <sup>st</sup>		0.00	mg/cm <sup>2</sup>	N
53	C	Steps	W		1 <sup>st</sup>		0.00	mg/cm <sup>2</sup>	N
54	W	Canopy support	W		1 <sup>st</sup>		0.00	mg/cm <sup>2</sup>	N
55	W	Canopy ceiling	W		1 <sup>st</sup>		0.00	mg/cm <sup>2</sup>	N
56	Vinyl	Wall (siding)	W		1 <sup>st</sup>		0.00	mg/cm <sup>2</sup>	N
57	M	Door frame	W		1 <sup>st</sup>		0.00	mg/cm <sup>2</sup>	N
58	M	Door	W		1 <sup>st</sup>		0.00	mg/cm <sup>2</sup>	N
59	M	Door casing	W		1 <sup>st</sup>		> 1.0	mg/cm <sup>2</sup>	P
60	W	Window casing	W		1 <sup>st</sup>		0.00	mg/cm <sup>2</sup>	N
61	W	Window sill	W		1 <sup>st</sup>		0.00	mg/cm <sup>2</sup>	N
62	DW	Wall	W		1 <sup>st</sup>		0.00	mg/cm <sup>2</sup>	N
63	M	Door frame	W		1 <sup>st</sup>		0.00	mg/cm <sup>2</sup>	N

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**XRF LBP TESTING DATA SHEET**

PROJECT NAME/ADDRESS/UNIT NO. Building M 104; Camp Johnson; Jacksonville, NC		PROJECT NO.	2019 - 05 - 037	DATE	25 June 2019			
XRF MODEL/SERIAL NO. INNOVX LBP 4000 #11916		INSPECTOR NAME/NO. DeWitt Whitten, NCRA 220118						
SAMPLE #	SUBSTRATE <sup>1</sup>	COMPONENT	COLOR <sup>2</sup>	TEST LOCATION	LEVEL	XRF READING	UNITS <sup>3</sup>	CLASSIFICATION <sup>4</sup>
64	M	Door	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
65	M	Door frame	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
66	DW	Wall	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
67	DW	Wall	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
68	DW	Wall	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
69	DW	Wall	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
70	W	Window sill	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
71	DW	Wall	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
72	M	Door frame	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
73	DW	Wall	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
74	W	Window casing	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
75	DW	Wall	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
76	M	Door frame	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
77	M	Door	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
78	DW	Wall	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
79	DW	Wall	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
80	W	Window sill	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
81	DW	Wall	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
82	M	Door frame	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
83	DW	Wall	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N

SIGNATURE *[Signature]*

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- 3) mg/cm<sup>2</sup> - milligrams/square centimeter
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**XRF LBP TESTING DATA SHEET**

PROJECT NAME/ADDRESS/UNIT NO. Building M 104; Camp Johnson; Jacksonville, NC		PROJECT NO.	2019 - 05 - 037	DATE	25 June 2019				
XRF MODEL/SERIAL NO. INNOVX LBP 4000 #11916		INSPECTOR NAME/NO. DeWitt Whitten, NCRA 220118							
SAMPLE #	SUBSTRATE <sup>1</sup>	COMPONENT	COLOR <sup>2</sup>	TEST LOCATION	LEVEL	SIGNATURE	XRF READING	UNITS <sup>3</sup>	CLASSIFICATION <sup>4</sup>
84	W	Window casing	W		1 <sup>st</sup>	<i>DeWitt Whitten</i>	0.00	mg/cm <sup>2</sup>	N
85	W	Chair rail	W		1 <sup>st</sup>		0.00	mg/cm <sup>2</sup>	N
86	DW	Wall	W		1 <sup>st</sup>		0.00	mg/cm <sup>2</sup>	N
87	W	Door casing	W		1 <sup>st</sup>		0.00	mg/cm <sup>2</sup>	N
88	DW	Wall	W		1 <sup>st</sup>		0.00	mg/cm <sup>2</sup>	N
89	M	Door frame	W		1 <sup>st</sup>		0.00	mg/cm <sup>2</sup>	N
90	M	Door	W		1 <sup>st</sup>		0.00	mg/cm <sup>2</sup>	N
91	C	Column	W		1 <sup>st</sup>		1.07	mg/cm <sup>2</sup>	P
92	C	Wall	W		1 <sup>st</sup>		0.89	mg/cm <sup>2</sup>	N
93	W	Chair rail	W		1 <sup>st</sup>		0.00	mg/cm <sup>2</sup>	N
94	DW	Wall	W		1 <sup>st</sup>		0.00	mg/cm <sup>2</sup>	N
95	W	Chair rail	W		1 <sup>st</sup>		0.00	mg/cm <sup>2</sup>	N
96	W	Stage front	W		1 <sup>st</sup>		0.00	mg/cm <sup>2</sup>	N
97	C	Wall	W		1 <sup>st</sup>	0.45	mg/cm <sup>2</sup>	N	
98	C	Column	W		1 <sup>st</sup>	0.54	mg/cm <sup>2</sup>	N	
99	W	Chair rail	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
100	DW	Wall	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
101	C	Wall	W		1 <sup>st</sup>	1.09	mg/cm <sup>2</sup>	P	
102	M	Door	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
103	M	Door frame	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	

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**XRF LBP TESTING DATA SHEET**

PROJECT NAME/ADDRESS/UNIT NO. Building M 104; Camp Johnson; Jacksonville, NC		PROJECT NO.	2019 - 05 - 037	DATE	25 June 2019			
XRF MODEL/SERIAL NO. INNOVX LBP 4000 #11916		INSPECTOR NAME/NO. DeWitt Whitten, NCRA 220118	SIGNATURE <i>DeWitt Whitten</i>					
SAMPLE #	SUBSTRATE <sup>1</sup>	COMPONENT	COLOR <sup>2</sup>	TEST LOCATION	LEVEL	XRF READING	UNITS <sup>3</sup>	CLASSIFICATION <sup>4</sup>
104	W	Window casing	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
105	M	Door frame	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
106	M	Door	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
107	DW	Wall	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
108	DW	Wall	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
109	DW	Wall	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
110	DW	Wall	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
111	DW	Wall	G/Gr		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
112	W	Window sill	G/Gr		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
113	DW	Wall	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
114	W	Window casing	G/Gr		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
115	DW	Wall	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
116	M	Door frame	G/Gr		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
117	DW	Wall	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
118	W	Newell post	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
119	W	Chair rail	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
120	W	Stair frame	W		1 <sup>st</sup>	1.93	mg/cm <sup>2</sup>	P
121	W	Newell post	W		1 <sup>st</sup>	2.23	mg/cm <sup>2</sup>	P
122	DW	Wall	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
123	W	Window casing	W		1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N

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**XRF LBP TESTING DATA SHEET**

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XRF MODEL/SERIAL NO. INNOVX LBP 4000 #11916		INSPECTOR NAME/NO. DeWitt Whitten, NCRA 220118	SIGNATURE 					
SAMPLE #	SUBSTRATE <sup>1</sup>	COMPONENT	COLOR <sup>2</sup>	TEST LOCATION	LEVEL	XRF READING	UNITS <sup>3</sup>	CLASSIFICATION <sup>4</sup>
124	W	Window sill	W		2 <sup>nd</sup>	0.01	mg/cm <sup>2</sup>	N
125	DW	Wall	W		2 <sup>nd</sup>	0.00	mg/cm <sup>2</sup>	N
126	DW	Wall	W		2 <sup>nd</sup>	0.00	mg/cm <sup>2</sup>	N
127	DW	Wall	W		2 <sup>nd</sup>	0.00	mg/cm <sup>2</sup>	N
128	M	Door frame	W		2 <sup>nd</sup>	0.00	mg/cm <sup>2</sup>	N
129	M	Door	W		2 <sup>nd</sup>	0.00	mg/cm <sup>2</sup>	N
130	DW	Wall	W		2 <sup>nd</sup>	0.00	mg/cm <sup>2</sup>	N
131	M	Door	W		2 <sup>nd</sup>	0.00	mg/cm <sup>2</sup>	N
132	W	Door frame	W		2 <sup>nd</sup>	0.00	mg/cm <sup>2</sup>	N
133	DW	Wall	W		2 <sup>nd</sup>	0.00	mg/cm <sup>2</sup>	N
134	DW	Wall	W		2 <sup>nd</sup>	0.00	mg/cm <sup>2</sup>	N
135	DW	Wall	W		2 <sup>nd</sup>	0.00	mg/cm <sup>2</sup>	N
136	W	Window casing	W		2 <sup>nd</sup>	0.00	mg/cm <sup>2</sup>	N
137	W	Window sill	W		2 <sup>nd</sup>	0.00	mg/cm <sup>2</sup>	N
138	DW	Wall	W		2 <sup>nd</sup>	0.00	mg/cm <sup>2</sup>	N

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