



**ASBESTOS INSPECTION REPORT**  
**3<sup>rd</sup> FLOOR, NAVY SPACE FLOORING**  
**NRD NEW ENGLAND**  
**BARNES BUILDING**  
**495 SUMMER STREET, BOSTON, MA**

**US Army Corps of Engineers**  
**New England District**  
**696 Virginia Road**  
**Concord, MA 01742-2718**

**Mabbett Project No. R2018003.001.001**  
**February 14, 2018**

**Prepared For:**

MR. Joshua Mulvey  
US Army Corps of Engineers  
New England District  
696 Virginia Road  
Concord, MA 01742-2718

[Mabbett & Associates, Inc.](http://www.mabbett.com)

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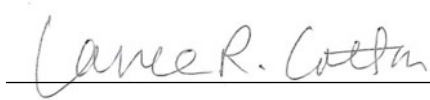
Massachusetts | Virginia | Rhode Island | New Jersey

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### ACKNOWLEDGEMENT

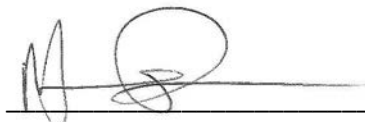
This Asbestos Inspection Report was prepared in accordance with an established scope of work as defined in the Mabbett Proposal No. P2018026.000. The information presented herein is based on the facts and information conveyed to or received by Mabbett & Associates, Inc. (Mabbett®) during the preparation of this report. If any of the information provided to Mabbett that was used in preparing this report is incorrect, incomplete, or subject to change, Mabbett would wish to alter its opinion(s) accordingly. In addition, the professional opinions and information contained in this report are based solely on the requirements of the applicable regulations and technical data as known to Mabbett as of the date of this report and considered applicable to this report.

The attached Asbestos Inspection Report was prepared by the following Mabbett & Associates, Inc. personnel:



Lance R. Cotton  
Environmental, Health and Safety Consultant

This report has been reviewed and approved by:



Michael F. Delaney  
Director, Building Sciences Group

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## 1.0 INTRODUCTION

Mabbett and Associates, Inc. (Mabbett®) performed a survey to identify asbestos-containing materials (ACM) in select areas at the NRD New England, Barnes Building, 3<sup>rd</sup> Floor Navy Space, located at 495 Summer Street in Boston, Massachusetts, in accordance with the established scope of work. The site inspection was performed by Mr. Lance R. Cotton and Mr. Chris Conley of Mabbett on January 31, 2018, and consisted of the following activities:

- Asbestos-Containing Material (ACM) survey (Analysis by polarized light microscopy [PLM])

This inspection was limited to the areas of the Navy Space on the 3<sup>rd</sup> Floor, anticipated to be impacted by renovation activities. The scope of this survey was based upon information provided in an email with attached drawings received by Mabbett on January 10, 2018 requesting a pre-demo NESHAP asbestos inspection of flooring materials.

## 2.0 ASBESTOS INSPECTION

### 2.1 Sampling Methodology

Site inspection work was performed on January 31, 2018, by Mabbett's appropriately credentialed asbestos inspectors, Mr. Lance R. Cotton (MA DLS #AI074353) and Mr. Chris Conley (MA DLS #AI900784). In accordance with the scope of work, suspect ACM was sampled and collected in general conformance with 40 CFR Part 61 "National Emissions Standards for Hazardous Air Pollutants (NESHAP)", 40 CFR Part 763 "Asbestos Hazard Emergency Response Act (AHERA)", and all applicable Massachusetts regulations. This inspection was limited to the flooring located throughout the 3<sup>rd</sup> floor Navy Space, excluding corridors, that were accessible during the on-site inspection. Every effort was made to thoroughly inspect all areas where renovation is expected to occur.

Bulk samples were submitted under standard chain of custody procedures to ProScience Analytical Services, Inc. (ProScience) of Woburn, MA. Analysis was performed using PLM in accordance with EPA Method 600/R-93/116. ProScience is accredited by the American Industrial Hygiene Association (AIHA) and participates in the National Voluntary Laboratory Accreditation Program (NVLAP).

All bulk sample results from this inspection are summarized in Appendix A, Summary of ACM Building Inspection Results. The Environmental Protection Agency (EPA) and the Occupational Safety and Health Administration (OSHA), defines ACM as any material that contains greater than one percent (>1%) asbestos. As such, the analytical laboratory identified bulk samples of suspected ACM as positive for asbestos when they met or exceeded the regulatory criteria of greater than one percent (>1%) asbestos. The laboratory report and the chain of custody are provided in Appendix B of this report.

### 2.2 Summary of Asbestos-Containing Materials (ACM) Findings

Mabbett identified eleven (11) types of homogeneous areas and collected thirty-three (33) representative bulk samples. The laboratory-reported analytical data indicated that one (1) homogeneous area was identified as ACM.

Estimated quantities of materials identified as ACM are presented in Table 1 below:

**Table 1 - Summary of Identified ACM**

Location / Room	Description of Material	Estimated Quantity	
		Amount	Units
Throughout Area Under Carpet	12" x 12" Brown w/Black & Brown Streaks Floor Tile	7,240	Square Feet
Conference Room 304-A & Office #13 Storage Closet	12" x 12" Brown w/Black & Brown Streaks Floor Tile	220	Square Feet

### 3.0 CONCLUSIONS AND RECOMMENDATIONS

#### 3.1 Asbestos

Identified ACM must be abated and properly disposed of prior to being disturbed by demolition and renovation activities by state licensed and properly trained contractors. All abatement must be performed in accordance with Federal, State and local requirements. Any suspect materials encountered during demolition or renovation activities that were not identified in this report as being non-ACM, should be assumed to be ACM unless sample results prove otherwise. Suspect ACM that may be present within the walls, above inaccessible hard ceilings, or in other inaccessible locations, should be assumed to contain asbestos if discovered during any demolition or renovation process or until otherwise verified.

### 4.0 LIMITATIONS

This inspection report is the result of a diligent and limited inspection of the flooring system located in the Navy Space on the 3<sup>rd</sup> Floor of the Barnes Building, for the presence of asbestos-containing building materials. Only accessible areas were included in this inspection. Although a comprehensive inspection of the flooring system was performed, Mabbett does not claim to have identified all of the materials that could be present in the building (for example, materials potentially located within inaccessible areas). Mabbett has conducted this assessment with reasonable care and has performed this project within generally accepted industry standards. There can be no assurances, and Mabbett makes no assurances, that the information, research, and technology used to prepare this report may not change in the future, thus affecting the results reported herein.

## **APPENDIX A**

### Summary of ACM Building Inspection Results

Sample No.	Sample Location	Description of Material	Percent and Type of Asbestos
01A	Office 302-D	12" x 12" Brown w/Black & Brown Streaks Floor Tile	5% Chrysotile
01B	Storage 302-F	12" x 12" Brown w/Black & Brown Streaks Floor Tile	NA/PS
01C	Room #12	12" x 12" Brown w/Black & Brown Streaks Floor Tile	NA/PS
02A	Office 302-D	Black Mastic Assoc. w/01A	NAD
02B	Storage 302-F	Black Mastic Assoc. w/01B	NAD
02C	Room #12	Black Mastic Assoc. w/01C	NAD
03A	Waiting 302-A	Carpet Mastic	NAD
03B	Reception 302-B	Carpet Mastic	NAD
03C	Office 302-D	Carpet Mastic	NAD
04A	Storage 302-F	Carpet Mastic	NAD
04B	Storage 302-F	Carpet Mastic	NAD
04C	Storage 302-F	Carpet Mastic	NAD
05A	Room #1	Carpet Mastic	NAD
05B	Room #5	Carpet Mastic	NAD
05C	Room #10	Carpet Mastic	NAD
06A	Room 304-A	4" Brown Cove Base	NAD
06B	Office Area 302-E/302	4" Brown Cove Base	NAD
06C	Storage 302-F	4" Brown Cove Base	NAD
07A	Room 304-A	Tan Adhesive Assoc. w/06A	NAD
07B	Office Area 302-E/302	Tan Adhesive Assoc. w/06B	NAD
07C	Storage 302-F	Tan Adhesive Assoc. w/06C	NAD
08A	Room #4	6" Blue Cove Base	NAD
08B	Room #12	6" Blue Cove Base	NAD
08C	Room #18	6" Blue Cove Base	NAD
09A	Room #4	Tan Adhesive Assoc. w/08A	NAD
09B	Room #12	Tan Adhesive Assoc. w/08B	NAD
09C	Room #18	Tan Adhesive Assoc. w/08C	NAD
10A	Office 304-E	6" Grey Cove Base	NAD
10B	Office Area 304-F	6" Grey Cove Base	NAD
10C	Room #20	6" Grey Cove Base	NAD
11A	Office 304-E	Tan Adhesive Assoc. w/10A	NAD
11B	Office Area 304-F	Tan Adhesive Assoc. w/10B	NAD
11C	Room #20	Tan Adhesive Assoc. w/10C	NAD

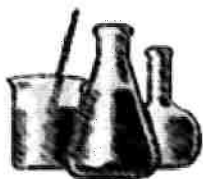
**NOTES:** NAD = No Asbestos Detected

NA/PS = Not Analyzed/Positive Sample

## **APPENDIX B**

### Laboratory Reports and Chain of Custody





# ProScience Analytical Services, Inc

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Lance R. Cotton  
Mabbett & Associates, Inc.  
5 Alfred Circle  
Bedford, MA 01730-2318

February 05, 2018

Dear Lance R. Cotton,

The enclosed analytical results have been obtained by using EPA 600/R-93/116 or EPA 600/M4-82-020. Calibrated Visual Estimate (CVE) is used by ProScience for the determination of the percentage of asbestos and other components in the sample. Point Counting is recommended when the sample contains less than 10% asbestos by CVE. Friable materials found to be less than 1% by CVE are automatically point counted (400 points) at no additional charge. ProScience recommends further analysis by a gravimetric method for non-friable materials that are less than 1% by CVE.

The Quality Control data related to the samples analyzed is available upon client's written request. ProScience Analytical Services Inc., assumes no responsibility for potential sample contamination that may have occurred during the sample collection process or erroneous data provided by the client. Unless otherwise indicated, all samples were received in acceptable condition.

The enclosed results may not be used under any circumstances as product endorsement by any US government agency including NIST/NVLAP.

All Laboratory records are retained for at least three years unless otherwise directed in writing by the client. The actual samples are retained for a period of two months and written request is necessary in order to be retained for a longer period of time. All analytical results and records are considered strictly confidential and will not be released under any circumstances to anyone except the actual client. The analytical results included in this report apply only to the items tested. This report may not be reproduced except in its entirety, without the permission of ProScience Analytical Services, Inc., Laboratory Director.

If you have any questions please contact the Laboratory Manager or the Laboratory Director.

Sincerely,

Patricia Weakley, Optical Asbestos Manager

Aimee Cormier, Laboratory Director

Enclosure:                      Version 2  
LAB BATCH ID: B 108242    CLIENT PROJECT ID: R2018003.001/001  
Client Ref: Barnes Bldg., 495 Summer St., 3rd Floor, Boston, MA - Navy Space  
CT ID# PH-0209; MA ID# AA000156; ME ID# LB-055; ME ID# LA-056; NVLAP Lab Code 200090-0;  
RI ID # AAL-093; VT ID# AL016876

# ProScience Analytical Services, Inc.

Client Name: Mabbett & Associates, Inc.  
 PO #: N/A  
 Client Project #: R2018003.001/001  
 Client Reference: Barnes Bldg., 495 Summer St., 3rd Floor, Boston, MA - Navy Space  
 Method: EPA/600/R-93/116

**Batch:** B108242  
 Date Sampled: 1/31/2018  
 Date Received: 2/1/2018  
 Date Analyzed: 2/5/2018  
 Date of Report: 2/5/2018

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
01A	Black	5	0	0	0	0	0	0	0	0	0	0	0	95
Description: 12"x12" Brown w/Black & Brown Streaks Floor Tile Location: Office 302-D Comments: <span style="float: right;">Is asbestos present? Yes. Analyzed: Yes</span>														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
01B		0	0	0	0	0	0	0	0	0	0	0	0	0
Description: 12"x12" Brown w/Black & Brown Streaks Floor Tile Location: Storage 302-F Comments: <span style="float: right;">Analyzed: No</span>														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
01C		0	0	0	0	0	0	0	0	0	0	0	0	0
Description: 12"x12" Brown w/Black & Brown Streaks Floor Tile Location: Room #12 Comments: <span style="float: right;">Analyzed: No</span>														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
02A	Black	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Black Mastic assoc. w/01A Location: Office 302-D Comments: <span style="float: right;">Is asbestos present? No. Analyzed: Yes</span>														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
02B	Black	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Black Mastic assoc. w/01B Location: Storage 302-F Comments: <span style="float: right;">Is asbestos present? No. Analyzed: Yes</span>														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
02C	Black	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Black Mastic assoc. w/01C Location: Room #12 Comments: <span style="float: right;">Is asbestos present? No. Analyzed: Yes</span>														

# ProScience Analytical Services, Inc.

Client Name: Mabbett & Associates, Inc.  
 PO #: N/A  
 Client Project #: R2018003.001/001  
 Client Reference: Barnes Bldg., 495 Summer St., 3rd Floor, Boston, MA - Navy Space  
 Method: EPA/600/R-93/116

**Batch:** B108242  
 Date Sampled: 1/31/2018  
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 Date Analyzed: 2/5/2018  
 Date of Report: 2/5/2018

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
03A	Yellow	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Carpet Mastic Location: Waiting 302-A Comments:														
Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
03B	Yellow	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Carpet Mastic Location: Reception 302-B Comments:														
Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
03C	Yellow	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Carpet Mastic Location: Office 302-D Comments:														
Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
04A	Yellow	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Carpet Mastic Location: Storage 302-F Comments:														
Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
04B	Yellow	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Carpet Mastic Location: Storage 302-F Comments:														
Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
04C	Yellow	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Carpet Mastic Location: Storage 302-F Comments:														
Is asbestos present? No. Analyzed: Yes														

# ProScience Analytical Services, Inc.

Client Name: Mabbett & Associates, Inc.  
 PO #: N/A  
 Client Project #: R2018003.001/001  
 Client Reference: Barnes Bldg., 495 Summer St., 3rd Floor, Boston, MA - Navy Space  
 Method: EPA/600/R-93/116

**Batch: B108242**  
 Date Sampled: 1/31/2018  
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 Date Analyzed: 2/5/2018  
 Date of Report: 2/5/2018

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
05A	Yellow	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Carpet Mastic Location: Room #1 Comments:														
Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
05B	Yellow	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Carpet Mastic Location: Room #5 Comments:														
Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
05C	Yellow	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Carpet Mastic Location: Room #10 Comments:														
Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
06A	Brown	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: 4" Brown Cove Base Location: Room 304-A Comments:														
Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
06B	Brown	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: 4" Brown Cove Base Location: Office Area 302-E/302 Comments:														
Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
06C	Brown	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: 4" Brown Cove Base Location: Storage 302-F Comments:														
Is asbestos present? No. Analyzed: Yes														

# ProScience Analytical Services, Inc.

Client Name: Mabbett & Associates, Inc.  
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**Batch:** B108242  
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 Date Analyzed: 2/5/2018  
 Date of Report: 2/5/2018

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
07A	Yellow	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Tan Adhesive assoc. w/06A Location: Room 304-A Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
07B	Yellow	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Tan Adhesive assoc. w/06B Location: Office Area 302-E/302 Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
07C	Yellow	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Tan Adhesive assoc. w/06C Location: Storage 302-F Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
08A	Blue	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: 6" Blue Cove Base Location: Room #4 Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
08B	Blue	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: 6" Blue Cove Base Location: Room #12 Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
08C	Blue	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: 6" Blue Cove Base Location: Room #18 Comments: Is asbestos present? No. Analyzed: Yes														

# ProScience Analytical Services, Inc.

Client Name: Mabbett & Associates, Inc.  
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 Date Analyzed: 2/5/2018  
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Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
09A	Yellow	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Tan Adhesive assoc. w/08A Location: Room #4 Comments:														
													Is asbestos present? No. Analyzed: Yes	

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
09B	Yellow	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Tan Adhesive assoc. w/08B Location: Room #12 Comments:														
													Is asbestos present? No. Analyzed: Yes	

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
09C	Yellow	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Tan Adhesive assoc. w/08C Location: Room #18 Comments:														
													Is asbestos present? No. Analyzed: Yes	

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
10A	Grey	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: 6" Grey Cove Base Location: Office 304-E Comments:														
													Is asbestos present? No. Analyzed: Yes	

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
10B	Grey	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: 6" Grey Cove Base Location: Office Area 304-F Comments:														
													Is asbestos present? No. Analyzed: Yes	

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
10C	Grey	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: 6" Grey Cove Base Location: Room #20 Comments:														
													Is asbestos present? No. Analyzed: Yes	

# ProScience Analytical Services, Inc.

Client Name: Mabbett & Associates, Inc.  
 PO #: N/A  
 Client Project #: R2018003.001/001  
 Client Reference: Barnes Bldg., 495 Summer St., 3rd Floor, Boston, MA - Navy Space  
 Method: EPA/600/R-93/116

**Batch: B108242**  
 Date Sampled: 1/31/2018  
 Date Received: 2/1/2018  
 Date Analyzed: 2/5/2018  
 Date of Report: 2/5/2018

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
11A	Yellow	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Tan Adhesive assoc. w/10A Location: Office 304-E Comments:														
Is asbestos present? No.													Analyzed: Yes	

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
11B	Yellow	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Tan Adhesive assoc. w/10B Location: Office Area 304-F Comments:														
Is asbestos present? No.													Analyzed: Yes	

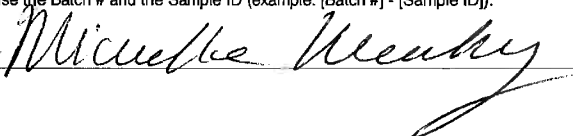
Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
11C	Yellow	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Tan Adhesive assoc. w/10C Location: Room #20 Comments:														
Is asbestos present? No.													Analyzed: Yes	

Asbestos Codes: CHR = Chrysotile AMO = Amosite CRO = Crocidolite ACT = Actinolite TRE = Tremolite ANT = Anthophyllite  
 Non-Asbestos Codes: FBG = Fiberglass MNW = Mineral Wool CEL = Cellulose HAR = Hair SYN = Synthetic OTH = Other NON = Non-Fibrous Minerals

**Note:** To create a unique lab sample ID, use the Batch # and the Sample ID (example: [Batch #] - [Sample ID]).

\* All results are in percentage.

**Analyst:** Michelle Weakley



**TAT**  
(circle one)

3 Hours 6 Hours Same Day Next Day

2 Days 3 Days 5 Days Other

**PASI Batch #**

**B108 242**

Client: Mabbett's Associates, Inc.

Address: 5 Alfred Circle, Bedford, MA 01730

**PLM**

Stop on first positive: Yes / No

If no selection is made the lab will analyze all samples

Chain of Custody

Special Instructions: please email results to Mike Delaney

Relinquished By: Amel R. Coffin

Date/Time: 11/18/09 09:00am

Project #: R2018003.001/001 PO:

Received By Lab: Trace Locust Co

Date/Time: 11/18 10:30

Project Site: Barnes Bldg, 445 Summer St., 3rd Floor, Boston, MA

Shaded area for lab use only

Due Date:

Contact: Amel R. Coffin

# of Samples Received: 33

Analyzed:

Tel / Fax #: (781) 275-6050 ext. 316

Results: email / fax verbal

By:

Email: cotton@mabbett.com, delaney@mabbett.com

Analyst / Date: M. Maclede 11/18/09

Date: 11/18/09

Date: 11/18/09

Sample ID	Date Sampled	Description / Location	SSAPE	Stereo Scope					Optical Properties	P4	Asbestos Percentage (%)					Non Asbestos Percentage (%)									
				Color	Homogeneity	Texture	Friable	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	Chrysotile	Amosite	Crocidolite	Tremolite	Anthophyllite	Actinolite	Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non Fibrous
01A	1/31/18	12"x12" brown w/ black streaks floor tile office 302-D	Color																						95
01B		12"x12" brown w/ black streaks floor tile storage 302-F	Color																						
01C		12"x12" brown w/ black streaks floor tile room #12	Color																						
02A		Black mastic assoc. w/ sample 01A office 302-D	Color																						
02B		Black mastic assoc. w/ sample 01B storage 302-F	Color																						
02C		Black mastic assoc. w/ sample 01C room #12	Color																						



QC by:

Date QC:

Analyzed by:

Date Analyzed:

*mu*

*2.5.18*

Sample ID	Date Sampled	Description / Location	SSAPE	Color	Homogeneity	Texture	Friable	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism		⊥	Chrysotile	Amosite	Crocidolite	Tremolite	Anthophyllite	Actinolite	Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non Fibrous
03A	1/31/18	Carpet Mastic Waiting 302-A	YDSB																								
03B		Carpet Mastic Reception 302-13	YDSB																								
03C		Carpet Mastic Office 302-D	YDSB																								
04A		Carpet Mastic Storage 302-F	YDSB																								
04B			YDSB																								
04C			YDSB																								
05A		Carpet Mastic Room #1	YDSB																								
05B		Carpet Mastic Room #5	YDSB																								
05C		Carpet Mastic Room #10	YDSB																								
06A		4" brown cover base Room 304-A	YDSB																								

QC by:

Date QC:

Analyzed by:

Date Analyzed: 2.5.18

Sample ID	Date Sampled	Description / Location	SSAPE	Color	Homogeneity	Texture	Friable	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism		⊥	Chrysotile	Amosite	Crocidolite	Tremolite	Anthophyllite	Actinolite	Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non Fibrous
06B	1/31/18	4" brown cover base office area 302-E/302	<input checked="" type="checkbox"/>	<u>tan</u>	<input checked="" type="checkbox"/>	<u>fine</u>	<input checked="" type="checkbox"/>	<u>fibrous</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
06C		4" brown cover base storage 302-F	<input checked="" type="checkbox"/>	<u>tan</u>	<input checked="" type="checkbox"/>	<u>fine</u>	<input checked="" type="checkbox"/>	<u>fibrous</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
07A		Tan adhesive assoc. w/ sample Room 304-A	<input checked="" type="checkbox"/>	<u>tan</u>	<input checked="" type="checkbox"/>	<u>fine</u>	<input checked="" type="checkbox"/>	<u>fibrous</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
07B		Tan adhesive assoc. w/ sample office area 302-E/302	<input checked="" type="checkbox"/>	<u>tan</u>	<input checked="" type="checkbox"/>	<u>fine</u>	<input checked="" type="checkbox"/>	<u>fibrous</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
07C		Tan adhesive assoc. w/ sample storage 304-A	<input checked="" type="checkbox"/>	<u>tan</u>	<input checked="" type="checkbox"/>	<u>fine</u>	<input checked="" type="checkbox"/>	<u>fibrous</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
08A		6" blue cover base Room #4	<input checked="" type="checkbox"/>	<u>blue</u>	<input checked="" type="checkbox"/>	<u>fine</u>	<input checked="" type="checkbox"/>	<u>fibrous</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
08B		6" blue cover base Room #12	<input checked="" type="checkbox"/>	<u>blue</u>	<input checked="" type="checkbox"/>	<u>fine</u>	<input checked="" type="checkbox"/>	<u>fibrous</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
08C		6" blue cover base Room #18	<input checked="" type="checkbox"/>	<u>blue</u>	<input checked="" type="checkbox"/>	<u>fine</u>	<input checked="" type="checkbox"/>	<u>fibrous</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
09A		Tan adhesive assoc. w/ sample Room #4	<input checked="" type="checkbox"/>	<u>tan</u>	<input checked="" type="checkbox"/>	<u>fine</u>	<input checked="" type="checkbox"/>	<u>fibrous</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
09B		Tan adhesive assoc. w/ sample Room #12	<input checked="" type="checkbox"/>	<u>tan</u>	<input checked="" type="checkbox"/>	<u>fine</u>	<input checked="" type="checkbox"/>	<u>fibrous</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Comments: Birefringence < less than .010, M., .011-.029, H., greater than .03; Microscope Olympus BH-2, Serial # circle 1-201850, 229027, 233000, 231856  
ver 4.5 Updated 02/08/17

Each layer of multilayered materials are analyzed and charred individually (per NESHP/EPAL).

Project Name/ID: R2018 003.001/001

B108242

QC by:

Date QC:

Analyzed by: MJD

Date Analyzed: 2.5.18

Sample ID	Date Sampled	Description / Location	SSAPE	Color	Homogeneity	Texture	Friable	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism		⊥	Chrysotile	Amosite	Crocidolite	Tremolite	Anthophyllite	Actinolite	Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non Fibrous
09C	1/31/18	Tan adhesive assoc. w/ sample 08C Room #18	Ø	YDHL																							
10A	}	6" grey core base office 304-E	Ø	YDHL																							
10B		6" grey core base Office Area Room 304-F	Ø	YDHL																							
10C		6" grey core base Room #20	Ø	YDHL																							
11A		Tan adhesive assoc. w/ sample 10A Office 304-E	Ø	YDHL																							
11B		Tan adhesive assoc. w/ sample 10B Office Area 304-F	Ø	YDHL																							
11C	}	Tan adhesive assoc. w/ sample 10C Room #20	Ø	YDHL																							