



CREDERE ASSOCIATES, LLC

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December 8, 2020

Mr. Andrew Port
Director of Planning & Development
City of Newburyport
60 Pleasant Street
Newburyport, Massachusetts 01950
Via email: APort@CityofNewburyport.com

**Subject: Hazardous Building Materials Survey
Armory Garage
57 Low Street, Newburyport, Massachusetts**

Dear Mr. Port:

The attached report has been prepared to present the results of a Hazardous Building Materials Survey (HBMS) completed for the above referenced property (Site). **Section 4** of the report includes our conclusions and recommendations.

Please do not hesitate to contact me at (207) 828-1272 or rlickv@credere.com if you have any questions, comments, or require additional information regarding this investigation.

Sincerely,
CREDERE ASSOCIATES, LLC

Rick Vandenberg, LG, PG
Senior Project Manager & Vice President



CREDERE ASSOCIATES, LLC

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Hazardous Building Materials Survey

**Armory Garage
57 Low Street
Newburyport, Massachusetts**

Prepared for:
**City of Newburyport
60 Pleasant Street
Newburyport, Massachusetts**

Prepared by:
**Credere Associates, LLC
776 Main Street
Westbrook, Maine 04092**

December 8, 2020



In Reference to:
Credere Project No. 20001590

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1. INTRODUCTION

Credero Associates, LLC (Credero) was retained by the City of Newburyport (the Client) to conduct a Hazardous Building Material Survey (HBMS) of the Armory Garage located at 57 Low Street in the Town of Newburyport, Massachusetts (Site). This HBMS was completed in conformance with Credero's October 14, 2020, proposal.

1.1 PURPOSE AND STATEMENT OF OBJECTIVES

This section was developed to provide clarity and transparency in communicating and interpreting HBMS results. The primary purpose of this HBMS is to identify HBMs that may be impacted by future renovations and document their location and quantity.

The following objectives were established to aid in designing the project scope of work:

- Assess the Site building for the presence of asbestos-containing materials (ACM)
- Assess the Site buildings for the presence of lead-based paint (LBP) and lead containing paint (LCP)
- Document the presence of potential universal and/or hazardous wastes onsite as defined by Massachusetts solid waste rules (wastes included but not limited to universal wastes, hazardous wastes, and other wastes)

1.2 SITE DESCRIPTION

The 2.17-acre Site is situated within the Industrial 1 zoned area of the City. The Site is improved with one approximate 5,700-square foot Site building, which is identified as the Armory Garage. The building was reportedly constructed before 1952.

The Site is accessed from Low Street. The exterior of the Site consists of a paved driveway and parking area, grass, and mature trees through most of the western portions of the property.

The building is currently occupied by Newburyport Parks and Recreation Department, the Massachusetts Army National Guard, and the National Emergency Management Association (NEMA).



2. SCOPE OF WORK & METHODOLOGY

The following sampling program was implemented to meet the objectives identified in **Section 1.1**.

2.1 ACM SAMPLING

On November 16, 2020, Credere's Massachusetts Certified Asbestos Inspector surveyed the Site building for the presence of suspect ACM. Copies of the inspector's certification are included in **Appendix A**.

Nine (9) suspect ACMs were identified in the building and subsequently sampled. In all, a total of 19 ACM samples were collected accounting for replicate samples. The sampling was performed in accordance with Massachusetts Department of Environmental Protection (Mass DEP) 310 CMR 7.15.

Samples were taken to EMSL Analytical, Inc. (EMSL) of South Portland, Maine where they were analyzed using Polarized Light Microscopy (PLM) according to the U.S. Environmental Protection Agency (EPA) Method 600/R-93/116. The laboratory was advised to employ the 'positive stop' procedure such that additional replicates are not analyzed if an initial sample is positive for asbestos. As such, 17 of the 19 samples were analyzed by the laboratory.

Sample nomenclature and locations are provided in **Table 1**. Photographs of sampled materials are included in **Appendix B**, and **Figure 2** shows the locations of where samples were collected.

2.2 LEAD PAINT SURVEY

On November 16, 2020, a lead paint survey was performed by Credere subcontractor, ASAP Environmental Inc. of Dorchester, Massachusetts. Using a Viken Pb200i Handheld X-ray fluorescence (XRF) Lead Paint Analyzer a screening was completed of interior and exterior painted structural building components for the presence of lead-based paint. This was performed to identify lead in paint and identify if future renovation or demolition will need to take into account worker exposure and material disposal. Sample locations are described in **Appendix C**. This lead paint screening did not constitute a lead inspection or lead determination.

2.3 UNIVERSAL WASTE INVENTORY

On November 16, 2020, Credere inspected the Site building for the presence of universal and other regulated wastes that may be generated during future renovation/demolition activities. Items were counted and a list of potential universal and/or hazardous wastes was developed to assist the City with the future renovations. It is important to note that the items included in Credere's list will only become a universal or hazardous waste if they are taken out of service.



3. RESULTS

The following subsections present the results of the data collected during this HBMS.

3.1 ACM RESULTS

A summary of collected asbestos sample results is provided in **Table 1**, and the complete laboratory analytical report is provided in **Appendix D**. An outline of the Site building showing locations of sampled materials is included **Figure 2**.

Laboratory results indicated that the following materials are ACM.

- CA-SACM-03, expansion gasket, found at the seam where the concrete floor meets the concrete foundation.
- CA-SACM-04, corrugated transite roofing

Quantities of the asbestos containing materials are also listed in **Table 1** and shown on **Figure 3**.

3.2 LEAD PAINT SURVEY RESULTS

The results of this survey are summarized in **Appendix C**. Lead-based paint (LBP) is defined as paint with a lead concentration of 1.0 milligrams per square centimeter (mg/cm^2) in accordance with applicable state regulations. Lead-containing paint (LCP) is defined as paint with any detectable level of lead.

LBP was detected on the following items:

- White painted metal corner plates of the garage doors
- White painted flagpole at the front of the building

LCP was also identified in all screen locations inside the building. However, none of the painted materials screened inside the building contained concentrations exceeding $0.5 \text{ mg}/\text{cm}^2$.

During any future renovations when impacting LBP and LCP, proper measures should be taken by employers to protect worker health according to the US Occupational Safety and Health Administration (OSHA) lead in construction standards in 29 CFR 1926.62. Paints with any detectable concentration of lead may also be regulated for proper disposal when out of use, and any renovation/demolition waste containing these paints should be properly characterized prior to disposal and disposed at an appropriate facility according to applicable Massachusetts disposal regulations.



3.3 UNIVERSAL WASTE INVENTORY

Universal and other regulated wastes including multiple types and sizes of lights, batteries, white goods, fire extinguishers and paint were identified throughout the Site building. A universal/hazardous waste inventory is provided as **Table 2**.



4. CONCLUSIONS & RECOMMENDATIONS

Credero has performed a HBMS of Armory Garage in Newburyport, Massachusetts. The primary purpose of this HBMS was to identify HBM that will be impacted by any future renovation or demolition and document their location and quantity. The HBMS objectives listed in **Section 1.1** have been met. Credero's conclusions considering the results of this HBMS include the following:

- The following two (2) materials were identified to contain detectable asbestos that should be managed during future building repairs or renovation activities:
 - Expansion gasket located between the concrete floor and the concrete foundation (estimated 300 linear feet)
 - Corrugated transite panels that comprise the building roof (estimated 6,800 square feet)
- Two exterior painted locations were identified as LBP (flag pole and painted metal corner plates associated with the garage doors).
- LCP is present on all tested painted surfaces inside the building which would need to be managed during future repairs or renovations.
- Multiple types and sizes of lights, batteries, white goods, fire extinguishers and paint were identified throughout the Site building, which may require proper disposal or relocation if they are left onsite and taken out of use (i.e., if they become a waste material).

4.1 RECOMMENDATIONS

Based on the findings and conclusions of this HBMS, Credero makes the following recommendations:

- The identified ACM can stay in use because they are not friable. However, prior to any planned building renovation or demolition, these materials should be properly abated by an asbestos abatement contractor and disposed at a facility licensed to accept the asbestos waste. If during renovations any untested suspect materials are encountered, they should be sampled and analyzed for asbestos or presumed positive to allow for proper abatement.

The budget to properly remove and dispose of the roofing materials is estimated between \$6 and \$10 per square foot. The gasket would not be removed unless the entire building is demolished. For planning purposes, the estimated cost for gasket removal and disposal will be between \$2 and \$3 per lineal foot.

- Similarly, based on the locations and concentrations of lead impacted materials, these may remain in use. During any future renovations that impact the LBP and/or LCP, proper measures should be taken by employers to protect worker health according to the US Occupational Safety and Health Administration (OSHA) lead in construction standards in 29 CFR 1926.62. Paints with any detectable concentration of lead may also be regulated for proper disposal when out of use, and any renovation/demolition waste containing these paints should be properly characterized prior to disposal and disposed at an appropriate facility according to applicable Massachusetts disposal regulations.



The interior paint does not require encapsulation if the use is kept commercial/light industrial use. While not required, the exterior lead paint can be properly encapsulated for <\$3,500.

There are some additional costs that will be incurred to manage lead-impacted building materials demolition/renovation. These costs are for sampling the materials for bulk acceptance. In Credere's experience, the direct disposal of lead-impacted building components does not add appreciable cost during demolition other than sampling costs for facility acceptance. Rarely sampling results indicate that the lead is an issue for the disposal facility driving up costs.

- Identified universal and other hazardous materials shall be properly removed by an appropriate licensed contractor and disposed of at an appropriately licensed facility.

5. LIMITATIONS

This report has been prepared as part of a contract agreement between Credere and the Client. This agreement was established in order to provide the Client with information upon which they can rely concerning the existence or likely existence of HBMs at the Site. This report does not reflect:

- Conditions in inaccessible and/or otherwise untested areas
- Variations in contaminant concentrations that can occur between sample locations
- Variations in conditions that occurred at a time other than when the Site inspection was completed

In the event that any conditions different from those described herein are encountered at a later time, Credere Associates, LLC requests an opportunity to review such differences and modify the assessment and conclusions of this report. This report was prepared expressly for the purpose described. The information in this report may not be suitable for any other use without adaptation for the specific purpose intended. Any such reuse of this report, without adaptation, shall be at the sole risk and liability of the party undertaking the reuse.

If suspect ACM is identified during any future Site operations including maintenance, renovations, housekeeping, or general demolition, the party performing these activities should first refer to this report. If conclusive results cannot be obtained, additional sampling and analysis must be conducted by a duly qualified or Certified Asbestos Inspector prior to the initiation of any activities that may impact or in any way disturb potential unassessed ACM.

The lead paint survey was not intended to determine the suitability of the buildings for residential or child-occupied uses, or to assess the risk associated with lead paint on the Site.

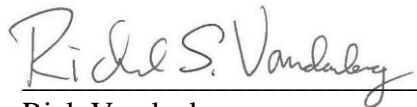
6. SIGNATURES

The following individual is a licensed professional certified to perform the above listed work in the respective jurisdiction and possess sufficient specific education, training, and experience necessary to exercise professional judgment to develop opinions and conclusions regarding the existence of HBMs at the Site. Copies of applicable certificates/licenses are included in **Appendix A**.



Moira Wentworth
Environmental Specialist/Geologist
Massachusetts Certified Asbestos Inspector

Reviewed and Approved by:



Rick Vandenberg
Senior Project Manager & Vice President



Rip Patten, PE
Vice President

TABLES



**Table 1
Asbestos Sample Summary and Results
Newburyport Armory Garage**

Sample Number	Location	Material	Asbestos Content	Approximate Quantity of ACM (unit)
CA-SACM-01 (A-B)	Throughout	Sheetrock, Light Gray	ND	NA
CA-SACM-02 (A-C)	Throughout	Joint Compound, White	ND	NA
CA-SACM-03 (A-B)	Throughout	Expansion Gasket	8.1% Chrysotile	300 LF
			Positive Stop	
CA-SACM-04 (A-B)	Roof	Corrugated Transite Panels	15% Chrysotile	6,800 SF
			Positive Stop	
CA-SACM-05 (A-B)	Throughout	Glazing, Off-White	ND	NA
CA-SACM-06 (A-B)	Throughout	2' x 2' Ceiling Tile, Dot Squiggle Pattern	ND	NA
CA-SACM-07 (A-B)	Throughout	Base Adhesive, Beige	ND	NA
CA-SACM-08 (A-B)	Throughout	12" Floor Tile, White	ND	NA
CA-SACM-09 (A-B)	Boiler Room	12" Floor Tile, Red	ND	NA

Total # of Samples: 19

Total Analyzed: 17

ND - None detected, sampled in triplicate

SACM - suspect asbestos-containing material

NA - Not applicable

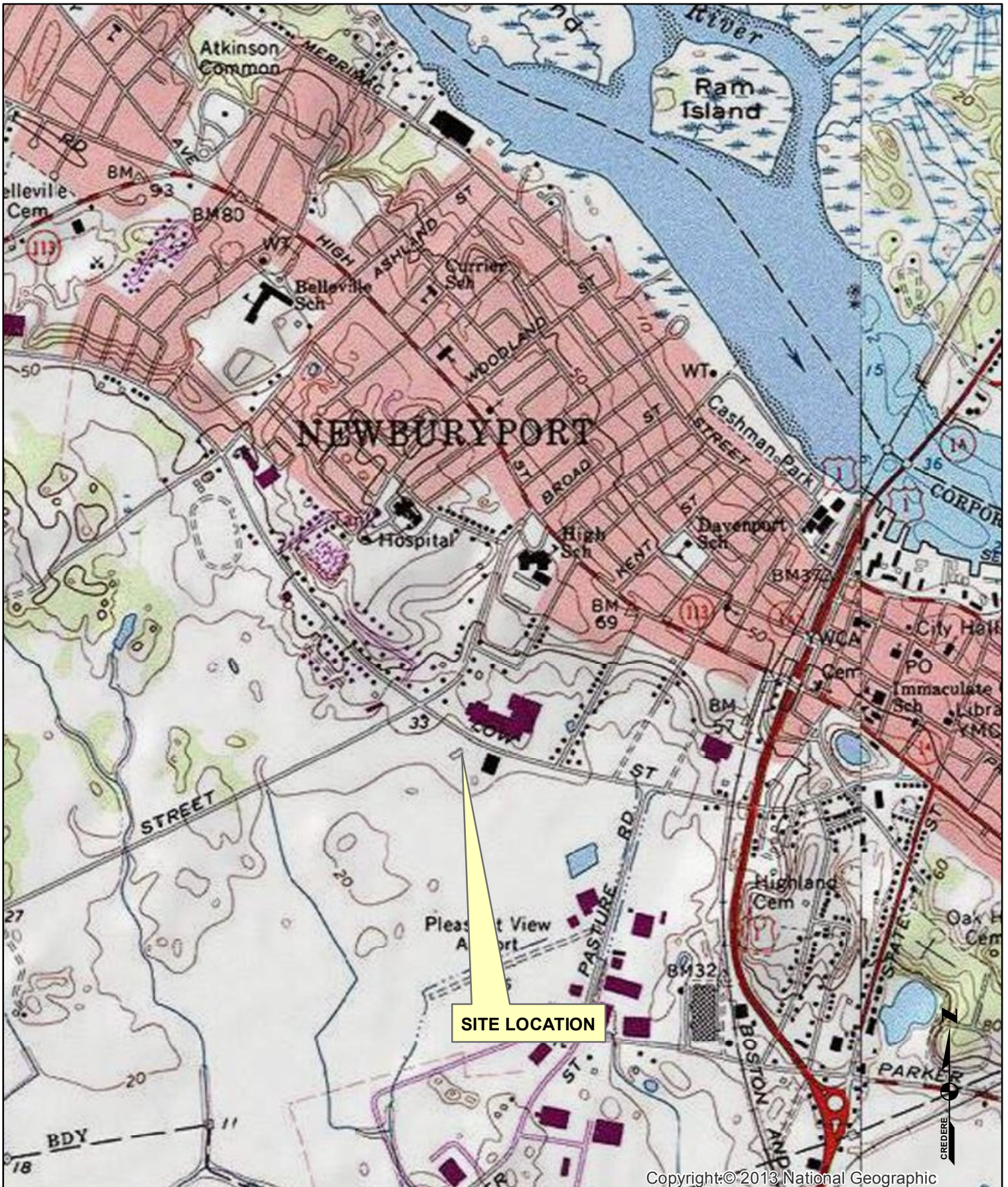
Bold - Positive detection of ACM exceeding or equal to 1%

Table 2
Universal/Hazardous Waste Inventory
Newburyport Armory Garage

Universal/Hazardous Waste	Quantity Inventoried
Fire Alarm Lights	9
Industrial Lights	6
Exit Signs	4
U-Shaped Fluorescent Light Fixtures	12
4' Fluorescent Light Fixtures	59
Small Fluorescent Recessed Light Fixtures	13
Refridgerators	2
Fire Extinguishers	2
Power Transfer Switch	1
Gallons of Paint	6
Quarts of Paint	4

FIGURES





Copyright:© 2013 National Geographic

DRAWN BY: MAW	DATE: 12/3/2020
CHECKED BY: RSV	PROJECT: 20001590

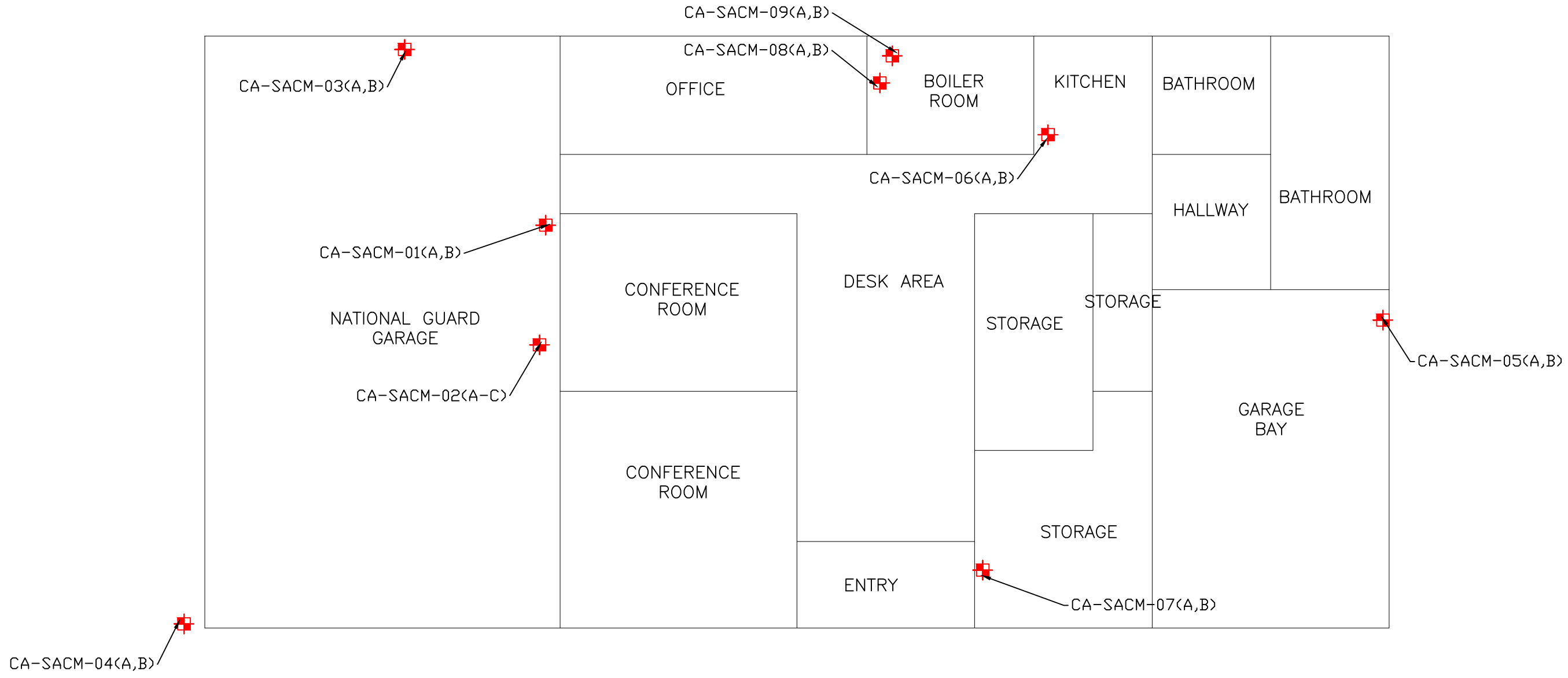
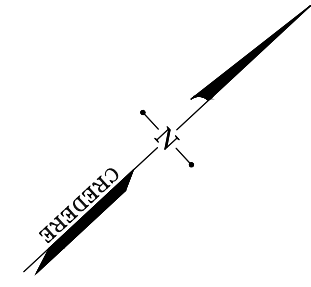
Crederre Associates, LLC
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FIGURE 1 SITE LOCATION PLAN

ARMORY GARAGE
57 LOW STREET
NEWBURYPORT, MASSACHUSETTS

1 INCH = 2,000 FEET

NEWBURYPORT



LEGEND

 ASBESTOS SAMPLE LOCATION

NEWBURYPORT ARMORY GARAGE
SAMPLE LOCATION PLAN

SCALE = N.T.S.

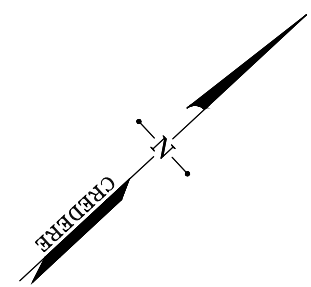
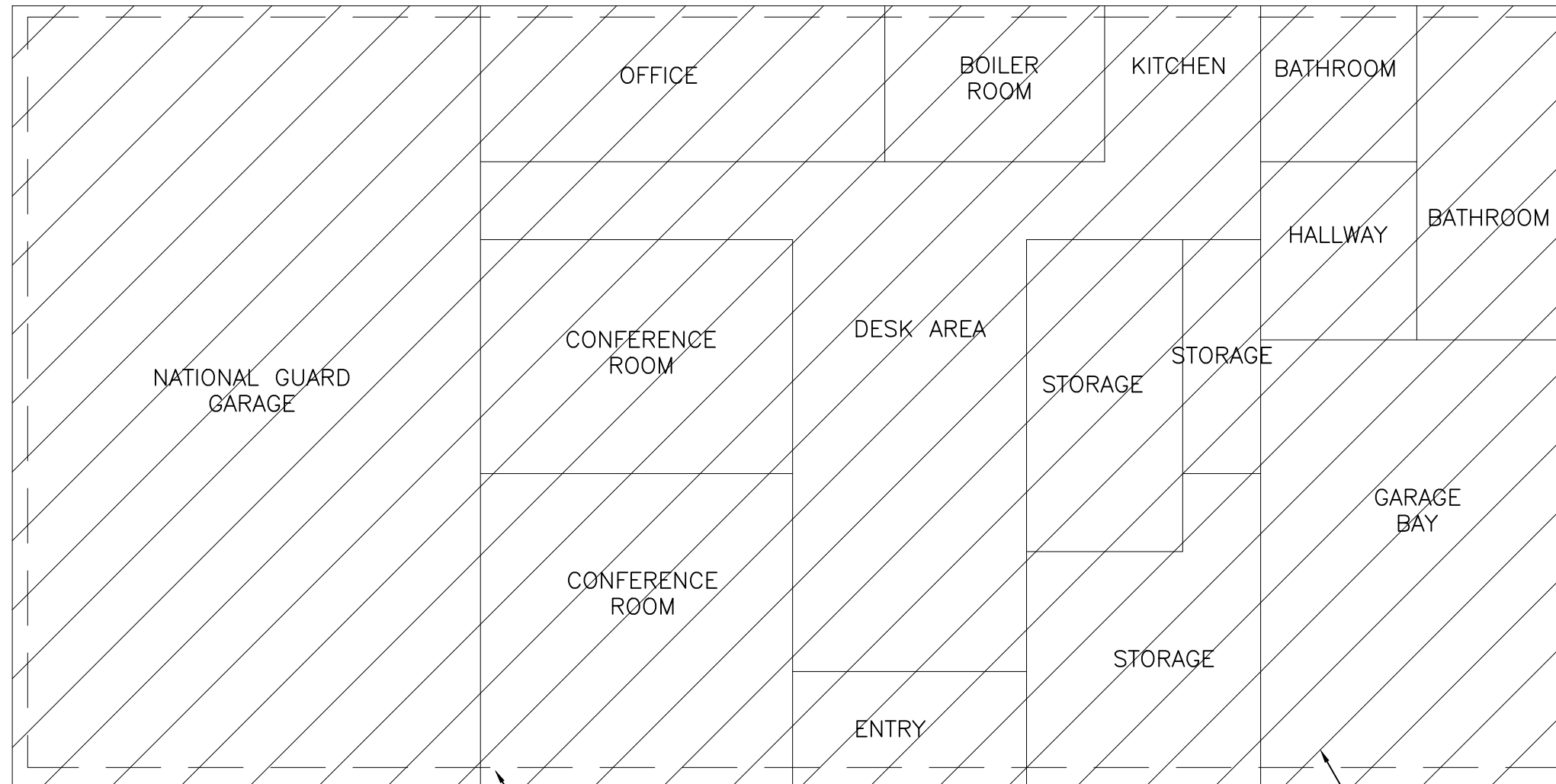
NEWBURYPORT ARMORY GARAGE
57 LOW STREET
NEWBURYPORT, MASSACHUSETTS

FIGURE 2

DRAWN BY: SAF/MAW DATE: 12/02/2020
CHECKED BY: RSY PROJECT: 20001590

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300 LF OF ASBESTOS EXPANSION GASKET
 LOCATED BETWEEN THE CONCRETE FLOOR
 AND THE CONCRETE FOUNDATION WALLS

6,800 SF OF ASBESTOS
 CORRUGATED TRANSITE
 LOCATED ON THE ROOF

LEGEND

- ASBESTOS EXPANSION GASKET
-  ASBESTOS CORRUGATED TRANSITE

**NEWBURYPORT ARMORY GARAGE
 ASBESTOS LOCATION PLAN**

SCALE = N.T.S.

NEWBURYPORT ARMORY GARAGE
 57 LOW STREET
 NEWBURYPORT, MASSACHUSETTS

FIGURE 3

DRAWN BY: SAF/MAW DATE: 12/02/2020
 CHECKED BY: RSV PROJECT: 20001590

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APPENDIX A
INSPECTOR CERTIFICATION DOCUMENTS





THE COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF LABOR AND WORKFORCE DEVELOPMENT
DEPARTMENT OF LABOR STANDARDS

Michael Flanagan
Interim Director

Asbestos Inspector

MOIRA A WENTWORTH

Eff. Date 03/10/20

Exp. Date 03/10/21

AI900652

Member of C.O.N.E.S.

BOSR BOS-RENEW

21



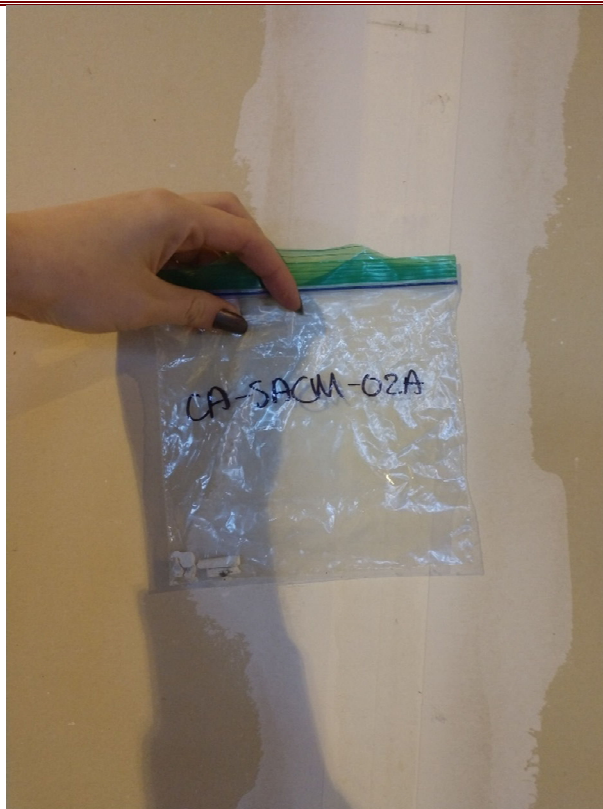
APPENDIX B
PHOTOGRAPH LOG



**Appendix B – Photo Log
Armory Garage
57 Low Street, Newburyport, Massachusetts**



1. Material CA-SACM-01, light gray sheetrock found throughout the building



2. Material CA-SACM-02, white joint compound found throughout the building.

**Appendix B – Photo Log
Armory Garage
57 Low Street, Newburyport, Massachusetts**



3. Material CA-SACM-03, expansion gasket found between the concrete floor and the concrete foundation wall

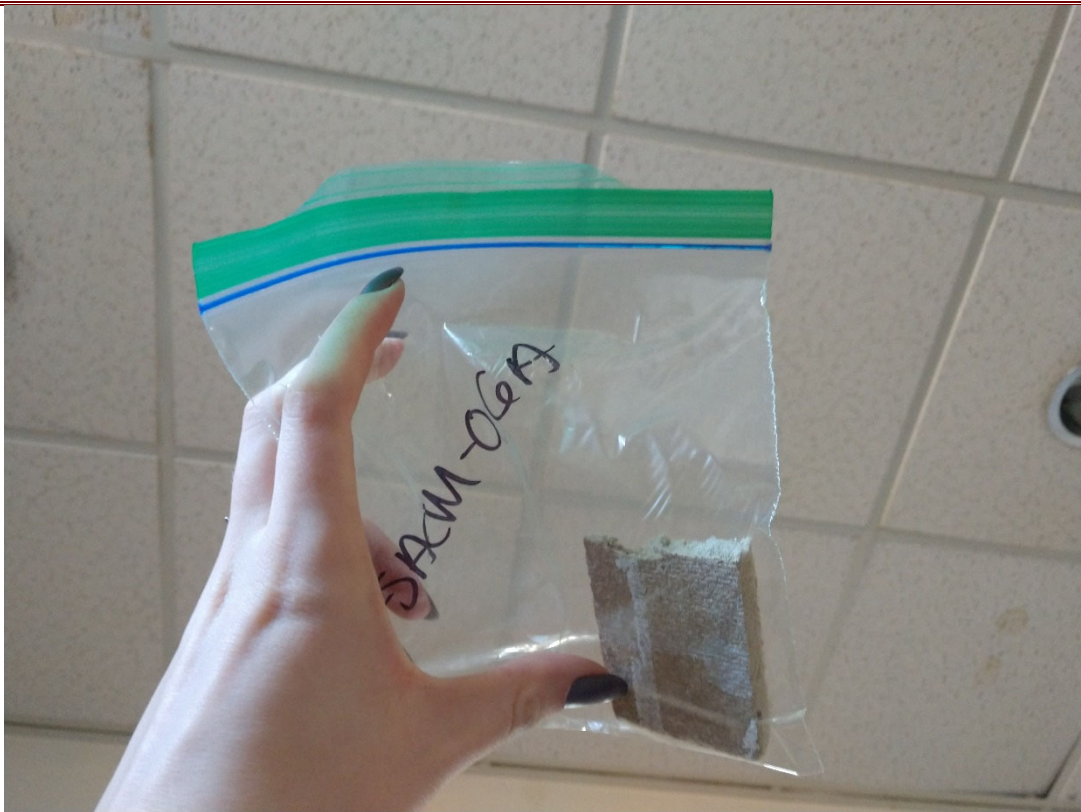


4. Material CA-SACM-04, corrugated transite panels in place on the building roof as viewed from below.

**Appendix B – Photo Log
Armory Garage
57 Low Street, Newburyport, Massachusetts**

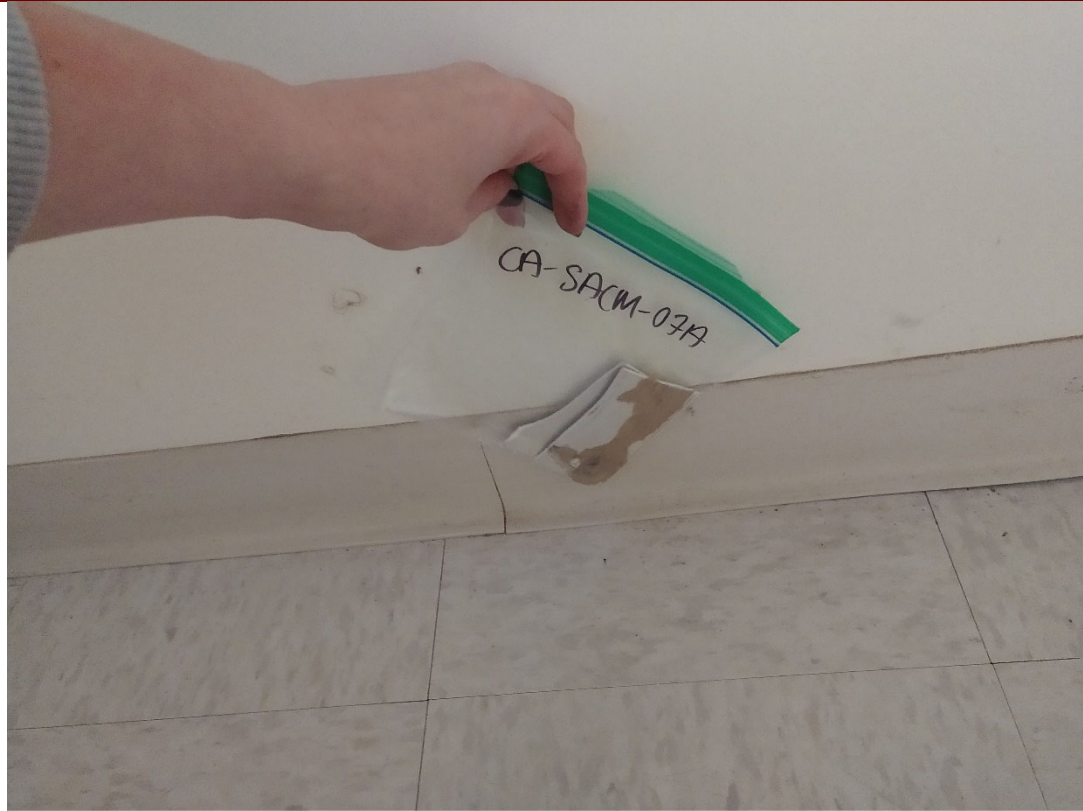


5. Material CA-SACM-05, off-white glazing found on the original building windows

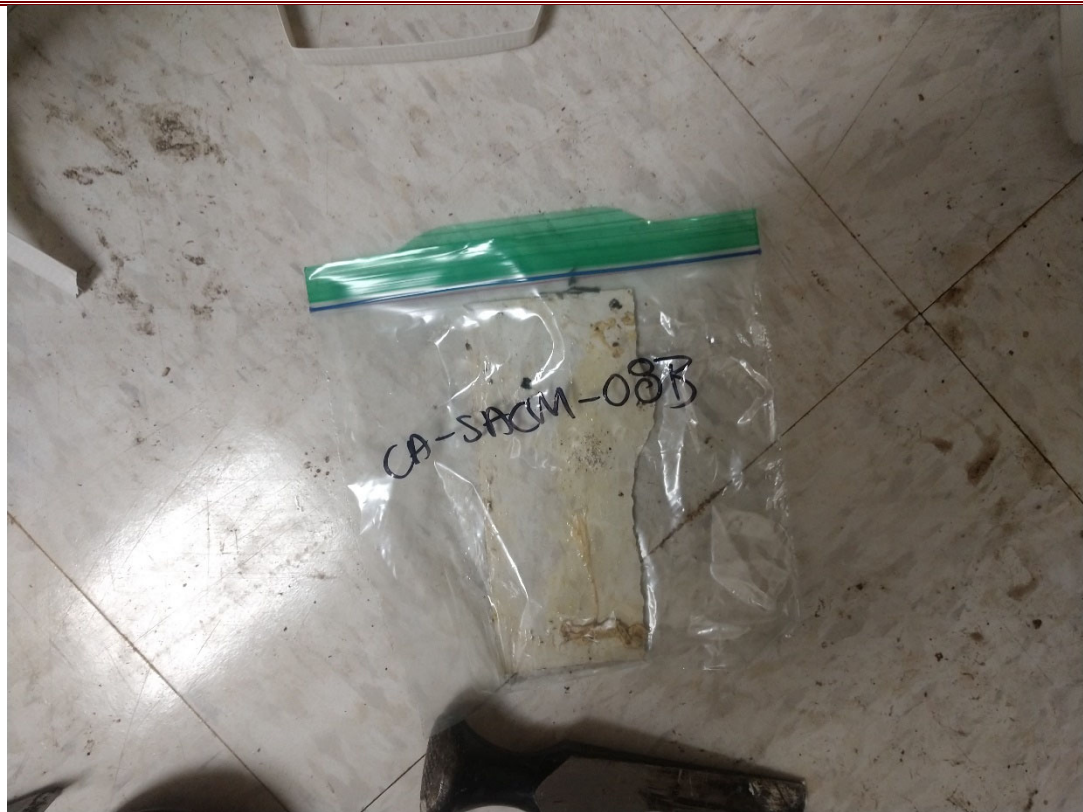


6. Material CA-SACM-06, 2' x 2' Ceiling tiles with a dot squiggle pattern.

**Appendix B – Photo Log
Armory Garage
57 Low Street, Newburyport, Massachusetts**

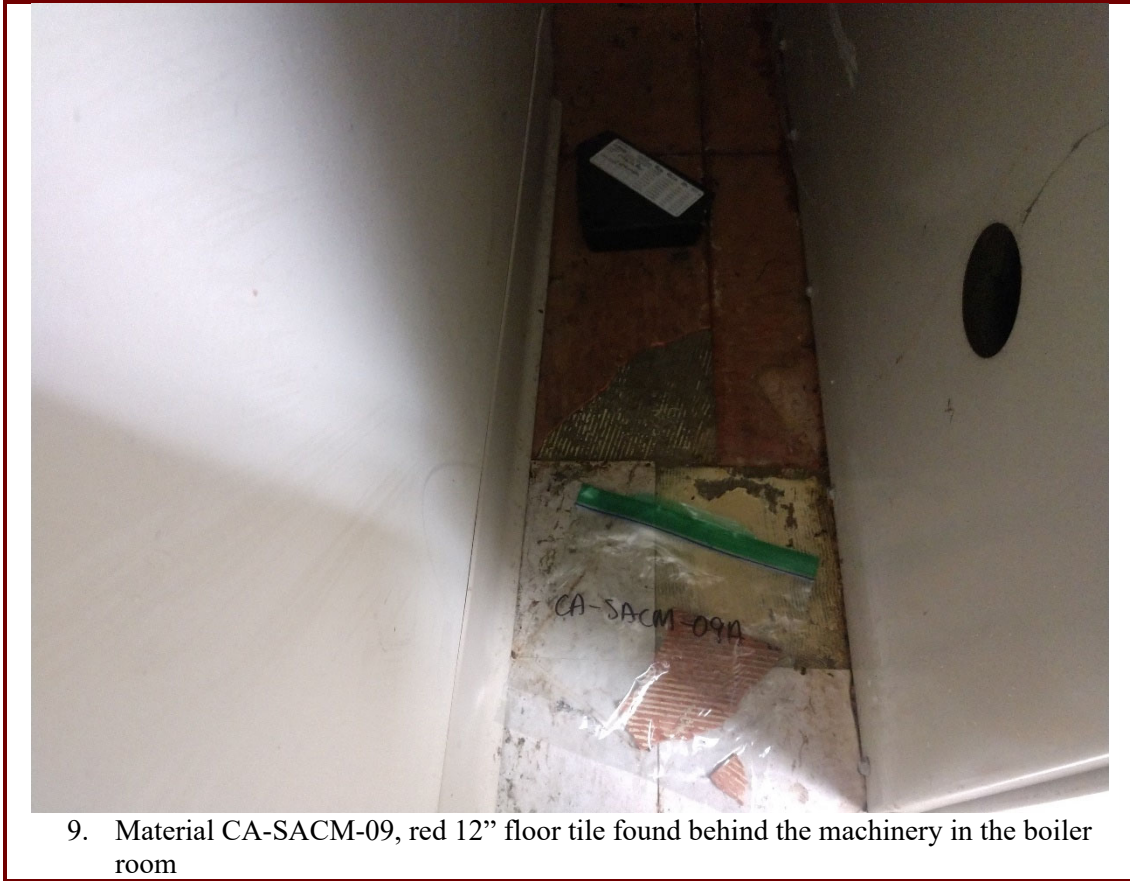


7. Material CA-SACM-07, beige baseboard adhesive. Present throughout the building.



8. Material CA-SACM-08, white 12" Floor Tile found throughout the building

Appendix B – Photo Log
Armory Garage
57 Low Street, Newburyport, Massachusetts



APPENDIX C

ASAP ENVIRONMENTAL INC. LEAD SURVEY





MAIN OFFICE:
1 Arcadia Street
Dorchester, MA 02122
Phone: (617) 288-8870 • Fax: (617) 282-7783

Toll-Free: (800) 349-7779
www.asapenvironmental.com

Pre-Demolition Lead Paint Survey

November 16, 2020

Client

Crede Associates, LLC
Moira Wentworth, Environmental Specialist/Geologist
776 Main Street
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T. 207-828-1272, x36

Project

57 Low Street
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Benjamin D. Misch
Massachusetts Licensed Lead Paint Inspector
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This report details the findings of a Pre-demolition lead paint survey 57 Low Street, Newburyport, MA. Subject building is a single story brick structure composed of offices, garage and workshop space. The building is known as the Newburyport Armory, presently owned by the Massachusetts National Guard and leased to the Town of Newburyport.

The intent of this survey was to identify interior and exterior structural components for the presence of lead-based paint in order to assist architects, contractors, owners and other interested parties in meeting compliance standards under state and federal regulations regarding worker exposure and material disposal.

For more specifics in this regard, refer to U.S. Department of Labor, Occupational Safety and Health Administration (OSHA) *Lead Exposure in Construction Standard* (29 CFR 1926.62), various EPA Hazardous Waste Regulations (40 CFR parts 260-271) and similar Massachusetts (DPH/CLPPP, OEH, DOS) laws, rules and regulations.

Sampling was conducted utilizing the latest generation of X-Ray Florescence Lead Paint Analyzers, the Viken Pb200i. Detailed product information including reliability data is available at the company's corporate website, www.vikendetecion.com.



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Sampling on selected components is detailed in the table summary below.

Area	Component	Lead Readings
Rear Garage/ Warehouse	Block Walls	0.2, 0.0, 0.1, 0.0
“ “	Brick Clmns	0.2, 0.0, 0.1, 0.0
“ “	Upright I-Beam	0.0, 0.2, 0.0, 0.2
“ “	Trusses	0.0, 0.2, 0.1, 0.0
“ “	Doors/Frames	0.0, 0.2, 0.1, 0.2
“ “	Garage Roller Door/Track	0.3, 0.1, 0.0, 0.2
“ “	Metal Windows	0.5, 0.5, 0.3, 0.4
Front Workshop	Block Walls	0.1, 0.2, 0.0, 0.1
“ “	Doors/Frames	0.1, 0.0, 0.1, 0.2
“ “	Garage Roller Door/Track	0.0, 0.1, 0.2, 0.0
“ “	Metal Windows	0.3, 0.4, 0.2, 0.4
Interior Offices	Walls	0.0, 0.1, 0.0, 0.1
“ “	Baseboards	0.1, 0.2, 0.1, 0.0
“ “	Doors/Frames	0.0, 0.1, 0.1, 0.0
“ “	Windows	0.0, 0.1, 0.0, 0.1
“ “	Flooring	0.0, 0.0, 0.1, 0.0
Exterior	Bricks	0.0, 0.1, 0.0, 0.1
“	Windows	0.3, 0.4, 0.3, 0.4
“	Doors/Frames	0.0, 0.3, 0.2, 0.1
“	Garage Header Plates	0.0, 0.3, 0.2, 0.0
“	Corner Plates at Doors	5.4, 6.7, 5.9, 4.8
“	Flag Pole	8.3, 7.9, 7.2, 7.9



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Notes and Summary:

Lead readings of “1.0” or greater are considered dangerous.

As noted in the tables above, multiple readings were taken on each selected component to help ensure testing validity.

The only surfaces found to contain lead based paints were the metal corner plates (three sets of two each) on the left side of the subject building and the flag pole at the front of the property. A single metal corner plate at the front left corner of the building tested negative for lead based paint.

APPENDIX D
ANALYTICAL LABORATORY REPORTS





EMSL Analytical, Inc.

161 John Roberts Road South Portland, ME 04106
Phone/Fax: (207) 517-6921 / (207) 517-6922
<http://www.EMSL.com> / portlandlab@emsl.com

EMSL Order ID: 622001620
Customer ID: CRED25
Customer PO:
Project ID:

Attn: Moira Wentworth
Crede Associates, LLC
776 Main Street
Westbrook, ME 04092
Phone: (207) 828-1272
Fax: (207) 887-1051
Collected: 11/16/2020
Received: 11/16/2020
Analyzed: 11/30/2020
Proj: Armory Garage

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: CA-SACM-01A **Lab Sample ID:** 622001620-0001
Sample Description: NAT GUARD BAY / T THROUGHOUT/SHEETROCK, LT. GRAY

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	11/30/2020	Gray	4.0%	96.0%	None Detected	

Client Sample ID: CA-SACM-01B **Lab Sample ID:** 622001620-0002
Sample Description: NAT GUARD BAY / T THROUGHOUT/SHEETROCK, LT. GRAY

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	11/30/2020	Gray	4.0%	96.0%	None Detected	

Client Sample ID: CA-SACM-02A **Lab Sample ID:** 622001620-0003
Sample Description: NAT GUARD BAY / T THROUGHOUT/JOINT COMPOUND, WHITE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	11/30/2020	White	0.0%	100.0%	None Detected	

Client Sample ID: CA-SACM-02B **Lab Sample ID:** 622001620-0004
Sample Description: NAT GUARD BAY / T THROUGHOUT/JOINT COMPOUND, WHITE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	11/30/2020	White	0.0%	100.0%	None Detected	

Client Sample ID: CA-SACM-02C **Lab Sample ID:** 622001620-0005
Sample Description: NAT GUARD BAY / T THROUGHOUT/JOINT COMPOUND, WHITE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	11/30/2020	White	0.0%	100.0%	None Detected	

Client Sample ID: CA-SACM-03A **Lab Sample ID:** 622001620-0006
Sample Description: NAT GUARD BAY/EXPANSION GASKET

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	11/30/2020	Black	0.0%	91.9%	8.1% Chrysotile	

Client Sample ID: CA-SACM-03B **Lab Sample ID:** 622001620-0007
Sample Description: NAT GUARD BAY/EXPANSION GASKET

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	11/30/2020					Positive Stop (Not Analyzed)



EMSL Analytical, Inc.

161 John Roberts Road South Portland, ME 04106
Phone/Fax: (207) 517-6921 / (207) 517-6922
<http://www.EMSL.com> / portlandlab@emsl.com

EMSL Order ID: 622001620
Customer ID: CRED25
Customer PO:
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: CA-SACM-04A **Lab Sample ID:** 622001620-0008

Sample Description: ROOF/CORRUGATED TRANSITE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	11/30/2020	Gray	0.0%	85.0%	15% Chrysotile	

Client Sample ID: CA-SACM-04B **Lab Sample ID:** 622001620-0009

Sample Description: ROOF/CORRUGATED TRANSITE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	11/30/2020					Positive Stop (Not Analyzed)

Client Sample ID: CA-SACM-05A **Lab Sample ID:** 622001620-0010

Sample Description: WORK BAY/GLAZING, OFF-WHITE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	11/30/2020	White	0.0%	100%	None Detected	

Client Sample ID: CA-SACM-05B **Lab Sample ID:** 622001620-0011

Sample Description: WORK BAY/GLAZING, OFF-WHITE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	11/30/2020	White	0.0%	100%	None Detected	

Client Sample ID: CA-SACM-06A **Lab Sample ID:** 622001620-0012

Sample Description: THROUGHOUT/2 X 2 CT, DOT SQUIGGLE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	11/30/2020	White	90.0%	10.0%	None Detected	

Client Sample ID: CA-SACM-06B **Lab Sample ID:** 622001620-0013

Sample Description: THROUGHOUT/2 X 2 CT, DOT SQUIGGLE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	11/30/2020	White	90.0%	10.0%	None Detected	

Client Sample ID: CA-SACM-07A **Lab Sample ID:** 622001620-0014

Sample Description: THROUGHOUT/BASE ADHESIVE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	11/30/2020	Tan	0.0%	100%	None Detected	

Client Sample ID: CA-SACM-07B **Lab Sample ID:** 622001620-0015

Sample Description: THROUGHOUT/BASE ADHESIVE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	11/30/2020	Tan	0.0%	100%	None Detected	



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EMSL Order ID: 622001620
Customer ID: CRED25
Customer PO:
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: CA-SACM-08A **Lab Sample ID:** 622001620-0016

Sample Description: THROUGHOUT/12" FLOOR TILE, WHITE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	11/30/2020	White	0.0%	100%	None Detected	

Client Sample ID: CA-SACM-08B **Lab Sample ID:** 622001620-0017

Sample Description: THROUGHOUT/12" FLOOR TILE, WHITE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	11/30/2020	White	0.0%	100%	None Detected	

Client Sample ID: CA-SACM-09A **Lab Sample ID:** 622001620-0018

Sample Description: BOILER ROOM 30 SF/12" FLOOR TILE, RED

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	11/30/2020	Red	0.0%	100%	None Detected	

Client Sample ID: CA-SACM-09B **Lab Sample ID:** 622001620-0019

Sample Description: BOILER ROOM 30/12" FLOOR TILE, RED

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	11/30/2020	Red	0.0%	100%	None Detected	

Analyst(s):

Thomas Stegeman PLM (8)
PLM Grav. Reduction (9)

Reviewed and approved by:

Samantha Voigt, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. This test report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. EMSL bears no responsibility for sample collection activities or analytical method limitations. The laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples. PLM alone is not consistently reliable in detecting asbestos in floor coverings and similar NOBs

Samples analyzed by EMSL Analytical, Inc. South Portland, ME NVLAP Lab Code 500094-0, MA AA000236, VT AL197271, ME LM-0039, CT PH-0346

Initial report from: 11/30/2020 11:26:08



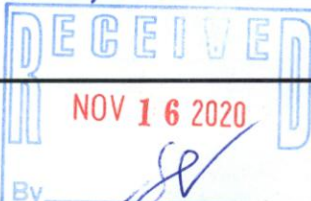
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Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (lab use only):

622001620

Company Name: <u>Credere Associates</u>		EMSL Customer ID:	
Street: <u>776 Main Street, Westbrooh</u>		City:	State or Province: <u>ME</u>
Zip/Postal Code: <u>04092</u>	Country: <u>USA</u>	Telephone #: <u>207-828-1272</u>	Fax #:
Report To (Name): <u>Nora Wentworth</u>		Please Provide Results via: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email	
email Address: <u>nwentworth@credereinc.com</u>		Purchase Order Number:	
Client Project ID: <u>Amory Garage</u>		EMSL Project ID (internal use only):	
State or Province Collected: <u>MASS</u>		CT only <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	
EMSL-Bill to: <input type="checkbox"/> Same <input type="checkbox"/> Different - If bill to is different note instructions in comment. 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"/> 32 Hour* <input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input type="checkbox"/> 1 Week <input checked="" type="checkbox"/> 2 Week
*32 Hour TAT available for select tests only; samples must be submitted by 11:30am. Please call ahead for large projects and/or turnaround times 6 hours or less.			
PLM - Bulk (reporting limit)		TEM - Bulk	
<input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%)		<input type="checkbox"/> TEM EPA NOB - EPA 600/R-93/116 Section 2.5.5.1	
<input checked="" type="checkbox"/> PLM EPA NOB (<1%)		<input type="checkbox"/> NY ELAP Method 198.4 non-friable - NY	
Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)		<input type="checkbox"/> Chatfield Protocol (semi-quantitative)	
Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)		<input type="checkbox"/> TEM % by Mass - EPA 600/R-93/116 Section 2.5.5.2	
<input type="checkbox"/> NIOSH 9002 (<1%)		<input type="checkbox"/> TEM Qualitative via Filtration Prep Technique	
<input type="checkbox"/> NY ELAP Method 198.1- friable - NY		<input type="checkbox"/> TEM Qualitative via Drop Mount Prep Technique	
<input type="checkbox"/> NY ELAP Method 198.6 NOB- non-friable - NY		Other tests (please specify)	
<input type="checkbox"/> NY ELAP Method 198.8- Vermiculite Surfacing Material		<input type="checkbox"/>	
<input type="checkbox"/> OSHA ID-191 Modified			
<input type="checkbox"/> EMSL Standard Addition Method			
<input checked="" type="checkbox"/> Positive Stop - Clearly Identify Homogenous Areas (HA)		Date Sampled: <u>11/16/20</u>	
Sampler's Name: <u>N. Wentworth</u>		Sampler's Signature:	
Sample #	HA #	Sample Location	Material Description
<u>CA-SACM-01 (A-B)</u>	<u>01</u>	<u>Nat Guard Bay Throughout</u>	<u>Sheetrock, lt. gray</u>
<u>CA-SACM-02 (A-C)</u>	<u>02</u>	<u>Nat Guard Bay throughout</u>	<u>joint compound, white</u>
<u>CA-SACM-03 (A-B)</u>	<u>03</u>	<u>Nat Guard Bay</u>	<u>expansion gasket</u>
<u>CA-SACM-04 A-B</u>	<u>04</u>	<u>Roof</u>	<u>corrugated transite</u>
<u>CA-SACM-05 A-B</u>	<u>05</u>	<u>walk bay</u>	<u>glazing, off-white</u>
<u>CA-SACM-06 A-B</u>	<u>06</u>	<u>throughout</u>	<u>2x2 CT, dot squiggle</u>
Client Sample # (s): <u>CA-SACM-01</u>		<u>- CA-SACM-09</u>	Total # of Samples: <u>10</u>
Relinquished by (Client):		Date: <u>11/16/20</u>	Time: <u>1:45</u>
Received by (Lab): <u>Samantha Vajo</u>		Date: <u>11/16/2020</u>	Time: <u>3:00pm</u>
Comments/Special Instructions:			



Asbestos Bulk Building Material Chain of Custody



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EMSL Order Number (lab use only):

622001620

Additional pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	HA #	Sample Location	Material Description
CA-SACM-07(A-B)	07	throughout	base adhesive
CA-SACM-08(A-B)	08	throughout	12" Floortile, white
CA-SACM-09	09	Boiler room ³⁰ 10	12" Floor tiles, red
*Comments/Special Instructions:			

RECEIVED
NOV 16 2020
By *[Signature]*

Controlled Document – COC-01 Asbestos Bulk – R4 – 09/10/2019
EMSL Analytical, Inc.'s (DBA: LA Testing) Laboratory Terms and Conditions are incorporated into this chain of custody by reference in their entirety. Submission of samples to EMSL Analytical Inc. constitutes acceptance and acknowledgment of all terms and conditions.