APPENDIX A

HAZMAT ASSESSMENT

HAZARDOUS MATERIALS SUMMARY REPORT

Roof Replacement Project

Town Of Amherst
Amherst Pelham Regional Middle School
170 Chestnut Street
Amherst, Massachusetts

July 2025

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1.0 INTRODUCTION

CDW Consultants, Inc. (CDW) conducted a hazardous building materials (HBM) survey of the roofs at the Amherst Pelham Regional Middle School located at 170 Chestnut in Amherst, Massachusetts (Site). The HBM survey was conducted by CDW in support of the proposed roof renovations.

On June 30, July 1 and 2, 2025, Bryant Dana (Massachusetts Asbestos Inspector #AI901229) conducted an inspection for suspect asbestos containing materials (ACM). An inspection is required by the United States Environmental Protection Agency (USEPA) National Emission Standards for Hazardous Air Pollutants (NESHAP), prior to scheduled building renovations or demolitions. Additionally, the Massachusetts Department of Environmental Protection (MassDEP) regulates ACM associated with renovation, demolition, and asbestos abatement projects.

2.0 PROJECT UNDERSTANDING

The scope of the work was to provide an HBM survey in support of the proposed roof renovations at the Amherst Pelham Regional Middle School. The HBM survey consisted of a visual survey of all visually accessible areas, to identify suspect building materials and perform limited sampling, including roof cuts and miscellaneous sampling, for potential hazardous materials samples for analytical analysis for ACM and LBP. The HBM survey included all accessible roofs.

3.0 GENERAL SITE CONDITIONS

The roof at the Amherst Pelham Regional Middle School has approximately 129,000 square feet of roofs. The Amherst Pelham Regional Middle School is separated into three sections. The three sections consist of the recreation building (pool/gyms), auditorium, and the main school building. Throughout the three roof sections, metal decking was primarily used with concrete decking present is a few locations.

4.0 REPORTS REVIEW

There were no previous reports available for review.

5.0 ASBESTOS SURVEY

5.1 Methods

The investigative work for the asbestos survey included conducting a visual inspection of physically accessible areas of the subject areas. Once the visual inspection was completed, the building components were categorized into homogeneous areas. CDW collected limited bulk samples of different homogeneous suspect materials for asbestos analysis. The bulk samples were delivered under chain of custody to Asbestos Identification Laboratory, Inc. (AIL) located in Woburn, Massachusetts. AIL is a state licensed (AA000208) and NVLAP-accredited laboratory

(lab code #200919-0) for asbestos analysis. Bulk samples were analyzed for asbestos content by polarized light microscopy (PLM) using USEPA Method 600/R-93/116. A positive stop method was used – if one sample in a homogeneous group is positive then additional samples of the same material are not analyzed. Samples analyzed to contain greater than 1% asbestos are to be treated as ACM as defined by the USEPA and Commonwealth of Massachusetts Department of Environmental Protection (MassDEP). Photographs are provided in Appendix A. The asbestos analytical report is provided in Appendix B.

5.2 Findings

Findings are listed in the table below.

Sample ID	Material	Location	Asbestos%
1A,B	Dark Gray Caulk on Flashing	Roof over Swimming Pool/Gyms	ND
2A,B	Gray Caulk (Expansion Joint)	Roof over Swimming Pool/Gyms	ND
3A,B	Gray Caulk on Louver	Roof over Swimming Pool/Gyms	ND
4A,B	Dark Gray Caulk on Flashing of Chimney	Roof over Swimming Pool/Gyms	ND
5A,B	Excess Tar on Brick Wall	Roof over Swimming Pool/Gyms	ND
6A,B	White Caulk on Sides (Ends) of Flashing	Roof over Swimming Pool/Gyms	ND
7A,B	White Sealant on HVAC Vent Hood	Roof over Swimming Pool/Gyms	ND
8A,B	Dark Gray Caulk on HVAC Vent Hood	Roof over Swimming Pool/Gyms	ND
9A,B	Gray Sealant on Gutter	Roof over Auditorium	Chrysotile 2%
10A,B,C	Gray Caulking on Flashing	Roof over Auditorium	ND
11A,B	Dark Gray Caulk Under Gray Caulk on Flashing (in some locations)	Roof over Auditorium	ND
12A,B	White Caulk on Flashing	Roof over Auditorium	ND
13A,B	Gray Expansion Joint	Roof over Auditorium	ND
Roof Core 1A	Glue/Adhesive on Rubber Membrane	(Pool/Gyms) Top Layer	ND

Sample ID	Material	Location	Asbestos%
Roof Core 1B	Tar Paper	(Pool/Gyms) Top/Bottom of Foam	ND
Roof Core 1C	Tar	(Pool/Gyms) Top of Metal Deck	ND
Roof Core 2A	Glue/Adhesive on Rubber Membrane	(Pool/Gyms) Top Layer	ND
Roof Core 2B	Tar Paper	(Pool/Gyms) Top/Bottom of Foam	ND
Roof Core 3A	Glue/Adhesive on Rubber Membrane	(Pool/Gyms) Top Layer	ND
Roof Core 3B	Tar Paper	(Pool/Gyms) Top/Bottom of Foam	ND
Roof Core 3C	Tar	(Pool/Gyms) Top of Metal Deck	ND
Roof Core 4A	Glue/Adhesive on Rubber Membrane	(Pool/Gyms) Top Layer	ND
Roof Core 4B	Tar Paper	(Pool/Gyms) Top/Bottom of Foam	ND
Roof Core 4C	Tar	(Pool/Gyms) Top of Metal Deck	ND
Roof Core 5A	Glue/Adhesive on Rubber Membrane	(Pool/Gyms) Top Layer	ND
Roof Core 5B	Tar Paper	(Pool/Gyms) Top/Bottom of Foam	ND
Roof Core 5C	Tar/Fiberboard	(Pool/Gyms) Top of Metal Deck	ND
Roof Core 6A	Glue/Adhesive on Rubber Membrane	(Pool/Gyms) Top Layer	ND
Roof Core 6B	Tar Paper	(Pool/Gyms) Top/Bottom of Foam	ND
Roof Core 6C	Tar/Fiberboard	(Pool/Gyms) Top of Metal Deck	ND
Roof Core 7A	Glue/Adhesive on Rubber Membrane	(Pool/Gyms) Top Layer	ND
Roof Core 7B	Tar Paper	(Pool/Gyms) Top/Bottom of Foam	ND
Roof Core 7C	Tar/Fiberboard	(Pool/Gyms) Top of Metal Deck	ND
Roof Core 8A	Glue/Adhesive on Rubber Membrane	(Pool/Gyms) Top Layer	ND
Roof Core 8B	Tar Paper	(Pool/Gyms) Top/Bottom of Foam	ND
Roof Core 8C	Tar	(Pool/Gyms)	ND

Sample ID	Material	Location	Asbestos%
		Top of Metal Deck	
Curb Cut 1A	Glue/Adhesive on Rubber	(Pool/Gyms) Top Layer	ND
Roof Core 9A	Glue/Adhesive on Rubber Membrane	(Pool/Gyms) Top Layer	ND
Roof Core 9B	Tar Paper	(Pool/Gyms) Top/Bottom of Foam	ND
Roof Core 10A	Glue/Adhesive on Rubber Membrane	(Pool/Gyms) Top Layer	ND
Roof Core 10B	Tar Paper	(Pool/Gyms) Top/Bottom of Foam	ND
Roof Core 10C	Tar	(Pool/Gyms) Top of Metal Deck	ND
Roof Core 11A	Glue/Adhesive on Rubber Membrane	(Pool/Gyms) Top Layer	ND
Roof Core 11B	Tar Paper	(Pool/Gyms) Top/Bottom of Foam	ND
Curb Cut 2A	Glue/Adhesive on Rubber	(Pool/Gyms) (Chimney) Top Layer	ND
Roof Core 12A	Glue/Adhesive on Rubber Membrane	(Auditorium) Top Layer	ND
Roof Core 12B	Tar Paper	(Auditorium) Top/Bottom of Foam	ND
Roof Core 13A	Glue/Adhesive on Rubber Membrane	(Auditorium) Top Layer	ND
Roof Core 13B	Tar Paper	(Auditorium) Top/Bottom of Foam	ND
Roof Core 14A	Glue/Adhesive on Rubber Membrane	(Auditorium) Top Layer	ND
Roof Core 14B	Tar Paper	(Auditorium) Top/Bottom of Foam	ND
Roof Core 15A	Glue/Adhesive on Rubber Membrane	(Auditorium) Top Layer	ND
Roof Core 15B	Tar Paper	(Auditorium) Top/Bottom of Foam	ND
Roof Core 16A	Glue/Adhesive on Rubber Membrane	(Auditorium) Top Layer	ND
Roof Core 16B	Tar Paper	(Auditorium) Top/Bottom of Foam	ND
Roof Core 16C	Tar on Concrete Deck	(Auditorium) Top of Concrete Deck	ND

Sample ID	Material	Location	Asbestos%
Roof Core 17A	Glue/Adhesive on Rubber Membrane	(Auditorium) Top Layer	ND
Roof Core 17B	Tar Paper	(Auditorium) Top/Bottom of Foam	ND
Roof Core 18A	Glue/Adhesive on Rubber Membrane	(Auditorium) Top Layer	ND
Roof Core 18B	Tar Paper	(Auditorium) Top/Bottom of Foam	ND
Roof Core 18C	Tar on Concrete Deck	(Auditorium) Top of Concrete Deck	ND
Curb Cut 3A	Glue/Adhesive on Rubber	(Auditorium) Top Layer	ND
Curb Cut 3B	Tar (Vapor Barrier)	(Auditorium) On Wall	ND
Curb Cut 4A	Glue/Adhesive on Rubber	(Auditorium) Top Layer	ND
Curb Cut 4B	Insulation	(Auditorium) Between Rubber and Wall	ND
Curb Cut 4C	Tar (Vapor Barrier)	(Auditorium) On Wall	ND
Roof Core 19A	Glue/Adhesive on Rubber Membrane	(Auditorium) Top Layer	ND
Roof Core 19B	Tar Paper	(Auditorium) Top/Bottom of Foam	ND
Roof Core 19C	Tar/Fiberboard	(Auditorium) Top of Metal Deck	ND
Roof Core 20A	Glue/Adhesive on Rubber Membrane	(Auditorium) Top Layer	ND
Roof Core 20B	Tar Paper	(Auditorium) Top/Bottom of Foam	ND
Roof Core 20C	Tar/Fiberboard	(Auditorium) Top of Metal Deck	ND
Roof Core 21A	Glue/Adhesive on Rubber Membrane	(Auditorium) Top Layer	ND
Roof Core 21B	Tar Paper	(Auditorium) Top/Bottom of Foam	ND
Roof Core 21C	Tar/Fiberboard	(Auditorium) Top of Metal Deck	ND
Curb Cut 5A	Glue/Adhesive on Rubber	(Auditorium) Top Layer	ND
Curb Cut 5B	Insulation	(Auditorium) Between Rubber and	ND

Sample ID	Material	Location	Asbestos%
		Wall	
Curb Cut 5C	Tar (Vapor Barrier)	(Auditorium) On Wall	ND
Roof Core 22A	Glue/Adhesive on Rubber Membrane	(Auditorium) Top Layer	ND
Roof Core 22B	Tar Paper	(Auditorium) Top/Bottom of Foam	ND
Roof Core 22C	Tar	(Auditorium) Top of Deck	ND
Roof Core 23A	Glue/Adhesive on Rubber Membrane	(Auditorium) Top Layer	ND
Roof Core 23B	Tar Paper	(Auditorium) Top/Bottom of Foam	ND
Roof Core 24A	Glue/Adhesive on Rubber Membrane	(Auditorium) Top Layer	ND
Roof Core 24B	Tar Paper	(Auditorium) Top/Bottom of Foam	ND
Roof Core 24C	Tar/Fiberboard	(Auditorium) Top of Deck	ND
Curb Cut 6A	Glue/Adhesive on Rubber	(Auditorium) Top Layer	ND
Curb Cut 6B	Insulation	(Auditorium) Between Rubber and Wall	ND
Curb Cut 6C	Tar (Vapor Barrier)	(Auditorium) On Wall	Chrysotile 5%
Curb Cut 7A	Glue/Adhesive on Rubber	(Auditorium) Top Layer	ND
Curb Cut 7B	Insulation	(Auditorium) Between Rubber and Wall	ND
Roof Core 25A	Glue/Adhesive on Rubber Membrane	(Auditorium) Top Layer	ND
Roof Core 25B	Tar Paper	(Auditorium) Top/Bottom of Foam	ND
Roof Core 25C	Tar/Fiberboard	(Auditorium) Top of Deck	ND
Roof Core 26A	Glue/Adhesive on Rubber Membrane	(Auditorium) Top Layer	ND
Roof Core 26B	Tar Paper	(Auditorium) Top/Bottom of Foam	ND
Roof Core 26C	Tar/Fiberboard	(Auditorium) Top of Deck	ND

Sample ID	Material	Location	Asbestos%
Curb Cut 8A	Glue/Adhesive on Rubber	(Auditorium) Top Layer	ND
Curb Cut 8B	Insulation	(Auditorium) Between Rubber and Wall	ND
Curb Cut 8C	Tar (Vapor Barrier)	(Auditorium) On Wall	ND
Roof Core 27A	Glue/Adhesive on Rubber Membrane	(Auditorium) Top Layer	ND
Roof Core 27B	Tar Paper	(Auditorium) Top/Bottom of Foam	ND
Roof Core 27C	Tar/Fiberboard	(Auditorium) Top of Deck	
Roof Core 28A	Glue/Adhesive on Rubber Membrane	(Auditorium) Top Layer	ND
Roof Core 28B	Tar Paper	(Auditorium) Top/Bottom of Foam	ND
Roof Core 28C	Tar/Fiberboard	(Auditorium) Top of Deck	Chrysotile <1%
Roof Core 29A	Glue/Adhesive on Rubber Membrane	(Auditorium) Top Layer	ND
Roof Core 29B	Tar Paper	(Auditorium) Top/Bottom of Foam	ND
Roof Core 29C	Tar	(Auditorium) Top of Concrete Deck	ND
Roof Core 30A	Glue/Adhesive on Rubber Membrane	(Auditorium) Top Layer	ND
Roof Core 30B	Tar Paper	(Auditorium) Top/Bottom of Foam	ND
Roof Core 30C	Tar/Fiberboard	(Auditorium) Top of Deck	ND
Roof Core 31A	Glue/Adhesive on Rubber Membrane	(Auditorium) Top Layer	ND
Roof Core 31B	Tar Paper	(Auditorium) Top/Bottom of Foam	ND
Roof Core 31C	Tar/Fiberboard	(Auditorium) Top of Deck	ND
Curb Cut 9A	Glue/Adhesive on Rubber	(Auditorium) Top Layer	ND
Curb Cut 9B	Insulation	(Auditorium) Between Rubber and Wall	ND
Curb Cut 9C	Tar (Vapor Barrier)	(Auditorium)	ND

Sample ID	Material	Location	Asbestos%
		On Wall	
Curb Cut 10A	Glue/Adhesive on Rubber	(Auditorium) Top Layer	ND
Curb Cut 10B	Insulation	(Auditorium) Between Rubber and Wall	ND
Curb Cut 10C	Tar (Vapor Barrier)	(Auditorium) On Wall	ND
Roof Core 32A	Glue/Adhesive on Rubber Membrane	(Auditorium) Top Layer	ND
Roof Core 32B	Tar Paper	(Auditorium) Top/Bottom of Foam	ND
Roof Core 32C	Tar/Fiberboard	(Auditorium) Top of Deck	ND
Roof Core 33A	Glue/Adhesive on Rubber Membrane	(Auditorium) Top Layer	ND
Roof Core 33B	Tar Paper	(Auditorium) Top/Bottom of Foam	ND
Roof Core 33C	Tar/Fiberboard	(Auditorium) Top of Deck	ND
Curb Cut 11A	Glue/Adhesive on Rubber	(Auditorium) Top Layer	ND
Curb Cut 11B	Insulation	(Auditorium) Between Rubber and Wall	ND
Curb Cut 11C	Tar (Vapor Barrier)	(Auditorium) On Wall	Chrysotile 20%
Roof Core 34A	Glue/Adhesive on Rubber Membrane	(Auditorium) Top Layer	ND
Roof Core 34B	Tar Paper	(Auditorium) Top/Bottom of Foam	ND
Roof Core 34C	Tar/Fiberboard	(Auditorium) Top of Deck	ND
Curb Cut 12A	Glue/Adhesive on Rubber	(Auditorium) Top Layer	ND
Curb Cut 12B	Insulation	(Auditorium) Between Rubber and Wall	ND
Curb Cut 12C	Tar (Vapor Barrier)	(Auditorium) On Wall	ND
Roof Core 35A	Glue/Adhesive on Rubber Membrane	(Auditorium) Top Layer	ND

Sample ID	Material	Location	Asbestos%
Roof Core 35B	Tar Paper	(Auditorium) Top/Bottom of Foam	ND
Roof Core 35C	Tar/Fiberboard	(Auditorium) Top of Deck	ND
Roof Core 36A	Glue/Adhesive on Rubber Membrane	(Auditorium) Top Layer	ND
Roof Core 36B	Tar Paper	(Auditorium) Top/Bottom of Foam	ND
Roof Core 36C	Tar	(Auditorium) Top of Concrete Deck	ND
Roof Core 37A	Glue/Adhesive on Rubber Membrane	(Auditorium) Top Layer	ND
Roof Core 37B	Tar Paper	(Auditorium) Top/Bottom of Foam	ND
Roof Core 37C	Tar	(Auditorium) Top of Concrete Deck	ND
Curb Cut 13A	Glue/Adhesive on Rubber	(Auditorium) Top Layer	ND
Curb Cut 13B	Insulation	(Auditorium) Between Rubber and Wall	ND
Curb Cut 13C	Tar (Vapor Barrier)	(Auditorium) On Wall	ND
Curb Cut 14A	Glue/Adhesive on Rubber	(Auditorium) Top Layer	ND
Curb Cut 14B	Insulation	(Auditorium) Between Rubber and Wall	ND
Curb Cut 14C	Tar (Vapor Barrier)	(Auditorium) On Wall	ND
Roof Core 38A	Glue/Adhesive on Rubber Membrane	(Auditorium) Top Layer	ND
Roof Core 38B	Tar Paper	(Auditorium) Top/Bottom of Foam	ND
Roof Core 38C	Brick	(Auditorium) Top of Deck	ND
Roof Core 38D	Tar on Brick	(Auditorium) Top of Deck	ND?
Roof Core 38E	Tar/Fiberboard	(Auditorium) Top of Metal Deck	ND
Curb Cut 15A	Glue/Adhesive on Rubber	(Auditorium) Top Layer	ND
Curb Cut 15B	Insulation	(Auditorium)	ND

Sample ID	Material	Location	Asbestos%
		Between Rubber and Wall	
Curb Cut 15C	Tar (Vapor Barrier)	(Auditorium) On Wall	ND
Roof Core 39A	Glue/Adhesive on Rubber Membrane	(Auditorium) Top Layer	ND
Roof Core 39B	Tar Paper	(Auditorium) Top/Bottom of Foam	ND
Roof Core 40A	Glue/Adhesive on Rubber Membrane	(Main School) Top Layer	ND
Roof Core 40B	Tar Paper	(Main School) Top/Bottom of Foam	ND
Curb Cut 16A	Glue/Adhesive on Rubber	(Main School) Top Layer	ND
Roof Core 41A	Glue/Adhesive on Rubber Membrane	(Main School) Top Layer	ND
Roof Core 41B	Tar Paper	(Main School) Top/Bottom of Foam	ND
Roof Core 41C	Tar	(Main School) Top of Deck	ND
Roof Core 42A	Glue/Adhesive on Rubber Membrane	(Main School) Top Layer	ND
Roof Core 42B	Tar Paper	(Main School) Top/Bottom of Foam	ND
Roof Core 42C	Tar	(Main School) Top of Deck	ND
Roof Core 43A	Glue/Adhesive on Rubber Membrane	(Main School) Top Layer	ND
Roof Core 43B	Tar Paper	(Main School) Top/Bottom of Foam	ND
Curb Cut 17A	Glue/Adhesive on Rubber	(Main School) Top Layer	ND
Curb Cut 17B	Tar on Wood	(Main School) On Wall	ND
Roof Core 44A	Glue/Adhesive on Rubber Membrane	(Main School) Top Layer	ND
Roof Core 44B	Tar Paper	(Main School) Top/Bottom of Foam	ND
Roof Core 44C	Tar	(Main School) Top of Deck	ND
Curb Cut 18A	Glue/Adhesive on Rubber	(Main School) Top Layer	ND
Roof Core 45A	Glue/Adhesive on	(Main School)	ND

Sample ID	Material	Location	Asbestos%
	Rubber Membrane	Top Layer	
Roof Core 45B	Tar Paper	(Main School) Top/Bottom of Foam	ND
Curb Cut 19A	Glue/Adhesive on Rubber	(Main School) Top Layer	ND
Curb Cut 20A	Glue/Adhesive on Rubber	(Main School) Top Layer	ND
Curb Cut 21A	Glue/Adhesive on Rubber	(Main School) Top Layer	ND
Roof Core 46A	Glue/Adhesive on Rubber Membrane	(Main School) Top Layer	ND
Roof Core 46B	Tar Paper	(Main School) Top/Bottom of Foam	ND
Roof Core 47A	Glue/Adhesive on Rubber Membrane	(Main School) Top Layer	ND
Roof Core 47B	Tar Paper	(Main School) Top/Bottom of Foam	ND
Roof Core 47C	Tar	(Main School) Top of Metal Deck	ND
Roof Core 48A	Glue/Adhesive on Rubber Membrane	(Main School) Top Layer	ND
Roof Core 48B	Tar Paper	(Main School) Top/Bottom of Foam	ND
Roof Core 48C	Tar	(Main School) Top of Deck	Chrysotile 3%
Roof Core 49A	Glue/Adhesive on Rubber Membrane	(Main School) Top Layer	ND
Roof Core 49B	Tar Paper	(Main School) Top/Bottom of Foam	ND
Roof Core 50A	Glue/Adhesive on Rubber Membrane	(Main School) Top Layer	ND
Roof Core 50B	Tar Paper	(Main School) Top/Bottom of Foam	ND
Roof Core 50C	Tar	(Main School) Top of Deck	Chrysotile 2%
Roof Core 51A	Glue/Adhesive on Rubber Membrane	(Main School) Top Layer	ND
Roof Core 51B	Tar Paper	(Main School) Top/Bottom of Foam	ND
Roof Core 51C	Tar/Fiberboard	(Main School) Top of Deck	ND
Roof Core 52A	Glue/Adhesive on Rubber Membrane	(Main School) Top Layer	ND

Sample ID	Material	Location	Asbestos%
Roof Core 52B	Tar Paper	(Main School) Top/Bottom of Foam	ND
Roof Core 52C	Tar/Fiberboard	(Main School) Top of Deck	ND
Roof Core 53A	Glue/Adhesive on Rubber Membrane	(Main School) Top Layer	ND
Roof Core 53B	Tar Paper	(Main School) Top/Bottom of Foam	ND
Roof Core 54A	Glue/Adhesive on Rubber Membrane	(Main School) Top Layer	ND
Roof Core 54B	Tar Paper	(Main School) Top/Bottom of Foam	ND
Roof Core 54C	Tar/Fiberboard	(Main School) Top of Deck	ND
Curb Cut 22A	Glue/Adhesive on Rubber	(Main School) Top Layer	ND
Roof Core 55A	Glue/Adhesive on Rubber Membrane	(Main School) Top Layer	ND
Roof Core 55B	Tar Paper	(Main School) Top/Bottom of Foam	ND
Roof Core 55C	Tar/Fiberboard	(Main School) Top of Deck	ND
Curb Cut 23A	Glue/Adhesive on Rubber	(Main School) Top Layer	ND
Curb Cut 23B	Tar (Vapor Barrier)	(Main School) On Wall	ND
Roof Core 56A	Glue/Adhesive on Rubber Membrane	(Main School) Top Layer	ND
Roof Core 56B	Tar Paper	(Main School) Top/Bottom of Foam	ND
Roof Core 57A	Glue/Adhesive on Rubber Membrane	(Main School) Top Layer	ND
Roof Core 57B	Tar Paper	(Main School) Top/Bottom of Foam	ND
Curb Cut 24A	Glue/Adhesive on Rubber	(Main School) Top Layer (Rubber Membrane to Brick)	ND
Curb Cut 25A	Glue/Adhesive on Rubber	(Main School) Top Layer (Wood Wall)	ND
Roof Core 58A	Glue/Adhesive on Rubber Membrane	(Main School) Top Layer	ND
Roof Core 58B	Tar Paper	(Main School)	ND

Sample ID	Material	Location	Asbestos%
		Top/Bottom of Foam	
Roof Core 58C	Tar/Fiberboard	(Main School) Top of Deck	ND
Roof Core 59A	Glue/Adhesive on Rubber Membrane	(Main School) Top Layer	ND
Roof Core 59B	Tar Paper	(Main School) Top/Bottom of Foam	ND
Roof Core 59C	Tar/Fiberboard	(Main School) Top of Deck	ND
Roof Core 60A	Glue/Adhesive on Rubber Membrane	(Main School) Top Layer	ND
Roof Core 60B	Tar Paper	(Main School) Top/Bottom of Foam	ND
Roof Core 60C	Tar/Fiberboard	(Main School) Top of Deck	ND
Roof Core 61A	Glue/Adhesive on Rubber Membrane	(Main School) Top Layer	ND
Roof Core 61B	Tar Paper	(Main School) Top/Bottom of Foam	ND
Roof Core 61C	Tar/Fiberboard	(Main School) Top of Deck	ND
Curb Cut 26A	Glue/Adhesive on Rubber	(Main School) On Chimney (Rubber to Wood)	ND
Roof Core 62A	Glue/Adhesive on Rubber Membrane	(Main School) Top Layer	ND
Roof Core 62B	Tar Paper	(Main School) Top/Bottom of Foam	ND
Roof Core 63A	Glue/Adhesive on Rubber Membrane	(Main School) Top Layer	ND
Roof Core 63B	Tar Paper	(Main School) Top/Bottom of Foam	ND
Curb Cut 27A	Glue/Adhesive on Rubber	(Main School) Top Layer (Rubber Membrane to Brick)	ND
Curb Cut 28A	Glue/Adhesive on Rubber	(Main School) Top Layer (On Wood)	ND
Roof Core 64A	Glue/Adhesive on Rubber Membrane	(Main School) Top Layer	ND
Roof Core 64B	Tar Paper	(Main School) Top/Bottom of Foam	ND

Sample ID	Material	Location	Asbestos%
Roof Core 64C	Tar/Fiberboard	(Main School) Top of Deck	ND
Roof Core 65A	Glue/Adhesive on Rubber Membrane	(Main School) Top Layer	ND
Roof Core 65B	Tar Paper	(Main School) Top/Bottom of Foam	ND
Roof Core 65C	Tar/Fiberboard	(Main School) Top of Deck	ND
Roof Core 66A	Glue/Adhesive on Rubber Membrane	(Main School) Top Layer	ND
Roof Core 66B	Tar Paper	(Main School) Top/Bottom of Foam	ND
Roof Core 66C	Tar/Fiberboard	(Main School) Top of Deck	ND
Roof Core 67A	Glue/Adhesive on Rubber Membrane	(Main School) Top Layer	ND
Roof Core 67B	Tar Paper	(Main School) Top/Bottom of Foam	ND
Roof Core 67C	Tar/Fiberboard	(Main School) Top of Deck	ND
Roof Core 68A	Glue/Adhesive on Rubber Membrane	(Main School) Top Layer	ND
Roof Core 68B	Tar Paper	(Main School) Top/Bottom of Foam	ND
Roof Core 68C	Tar/Fiberboard	(Main School) Top of Deck	ND
Roof Core 69A	Glue/Adhesive on Rubber Membrane	(Main School) Top Layer	ND
Roof Core 69B	Tar Paper	(Main School) Top/Bottom of Foam	ND
Roof Core 69C	Tar/Fiberboard	(Main School) Top of Deck	ND
Roof Core 70A	Glue/Adhesive on Rubber Membrane	(Main School) Top Layer	ND
Roof Core 70B	Tar Paper	(Main School) Top/Bottom of Foam	ND
Roof Core 70C	Tar/Fiberboard	(Main School) Top of Deck	ND
Roof Core 71A	Glue/Adhesive on Rubber Membrane	(Main School) Top Layer	ND
Roof Core 71B	Tar Paper	(Main School) Top/Bottom of Foam	ND
Roof Core 71C	Tar/Fiberboard	(Main School) Top of	ND

Sample ID	Material	Location	Asbestos%
		Deck	
Roof Core 72A	Glue/Adhesive on Rubber Membrane	(Main School) Top Layer	ND
Roof Core 72B	Tar Paper	(Main School) Top/Bottom of Foam	ND
Roof Core 72C	Tar/Fiberboard	(Main School) Top of Deck	ND
Roof Core 73A	Glue/Adhesive on Rubber Membrane	(Main School) Top Layer	ND
Roof Core 73B	Tar Paper	(Main School) Top/Bottom of Foam	ND
Roof Core 73C	Tar/Fiberboard	(Main School) Top of Deck	ND
Roof Core 74A	Glue/Adhesive on Rubber Membrane	(Main School) Top Layer	ND
Roof Core 74B	Tar Paper	(Main School) Top/Bottom of Foam	ND
Roof Core 74C	Tar/Fiberboard	(Main School) Top of Deck	ND
Roof Core 75A	Glue/Adhesive on Rubber Membrane	(Main School) Top Layer	ND
Roof Core 75B	Tar Paper	(Main School) Top/Bottom of Foam	ND
Roof Core 76A	Glue/Adhesive on Rubber Membrane	(Main School) Top Layer	ND
Roof Core 76B	Tar Paper	(Main School) Top/Bottom of Foam	ND
Roof Core 76C	Tar/Fiberboard	(Main School) Top of Deck	ND
Roof Core 77A	Glue/Adhesive on Rubber Membrane	(Main School) Top Layer	ND
Roof Core 77B	Tar Paper	(Main School) Top/Bottom of Foam	ND
Roof Core 77C	Tar/Fiberboard	(Main School) Top of Deck	ND
Roof Core 78A	Glue/Adhesive on Rubber Membrane	(Main School) Top Layer	ND
Roof Core 78B	Tar Paper	(Main School) Top/Bottom of Foam	ND
Roof Core 78C	Tar/Fiberboard	(Main School) Top of Deck	ND
Roof Core 79A	Glue/Adhesive on Rubber Membrane	(Main School) (School Entrance)	ND

Sample ID	Material	Location	Asbestos%
		Top Layer	
Roof Core 79B	Tar Paper	(Main School) (School Entrance) Top/Bottom of Foam	ND
Roof Core 79C	Tar/Fiberboard	(Main School) (School Entrance) Top of Deck	ND
Roof Core 80A	Glue/Adhesive on Rubber Membrane	(Main School) (School Entrance) Top Layer	ND
Roof Core 80B	Tar Paper	(Main School) (School Entrance) Top/Bottom of Foam	ND
Roof Core 80C	Tar/Fiberboard	(Main School) (School Entrance) Top of Deck	ND
Roof Core 81A	Glue/Adhesive on Rubber Membrane	(Main School) (School Entrance) Top Layer	ND
Roof Core 81B	Tar Paper	(Main School) (School Entrance) Top/Bottom of Foam	ND
Roof Core 81C	Tar/Fiberboard	(Main School) (School Entrance) Top of Deck	ND
Roof Core 82A	Glue/Adhesive on Rubber Membrane	(Pool/Gyms) (Over Boiler Room) Top Layer	ND
Roof Core 82B	Tar Paper	(Pool/Gyms) (Over Boiler Room) Top/Bottom of Foam	ND
Roof Core 83A	Glue/Adhesive on Rubber Membrane	(Pool/Gyms) (Over Boiler Room) Top Layer	ND
Roof Core 83B	Tar Paper	(Pool/Gyms) (Over Boiler Room) Top/Bottom of Foam	ND
Curb Cut 29A	Glue/Adhesive on Rubber Membrane	(Pool/Gyms) (Over Boiler Room) Top Layer	ND
14A,B,C	Dark Gray Sealant	Under Finishing over Auditorium Entrance	ND
15A,B	Dark Gray Sealant	On Roof Drains	ND

Sample ID	Material	Location	Asbestos%
		(Auditorium)	
16A,B	Tar	On Hatch (Auditorium)	ND
17A,B	Dark Gray Caulk	On Flashing (Main School Roof Chimney)	ND
18A,B	Dark Gray Caulk	On Flashing (Main School Roof Above Library)	ND
19A,B	Gray Caulk	On Flashing - Sides (Main School Roof Above Library)	ND
20A,B	Dark Gray Caulk	Under Flashing (Main School Roof Above Library)	ND
21A,B	Gray Caulk	On Brick Wall On Flashing (Main School Roof Above Library)	ND
22A,B	Tar	On HVAC Units (Mian School Roof)	ND
23A,B	Gray Caulk	On Bolts on HVAC Units (Main School Roof)	ND
24A,B	Gray Caulk	on HVAC Units (Main School Roof)	ND
25A,B	Gray Caulk w/ Black Coating	on HVAC Unit (Main School Roof)	ND
26A,B	Gray Caulk	Communication Tower (Main School Roof)	ND
27A,B	Dark Gray Caulk	on Mitsubishi Electric Unit Conduit (Main School Roof)	ND
28A,B	Black Window Glaze	School Entrance Roof	ND
29A,B	Dark Gray Window Caulk	School Entrance Roof	ND
30A,B	Black Caulk	On Flashing Between Window Units (School Entrance Roof)	ND
31A,B	White Caulk	Under Flashing	Chrysotile 5%

Sample ID	Material	Location	Asbestos%
		(School Entrance Roof)	
32A,B	Dark Gray Caulk	On Flashing/Bolts (School Entrance Roof)	ND
33A,B	Black Caulk	On Brick Conduit (School Entrance Roof)	ND
34A,B	Gray Caulk	On Flashing (Pool/Gyms) (Boiler Room)	ND

ND = Not Detected
Chrysotile = Asbestos Mineral

Refer to the table below for quantities of confirmed positive ACM and presumed ACM.

Material	Location	Quantity	Units
Gray Sealant on Gutter	Roof over Auditorium	100	LF
Tar (Vapor Barrier)	(Auditorium) On Wall	600*	SF
Tar	(Main School) Top of Deck	76,000**	SF
White Caulk	Under Flashing (School Entrance Roof)	20	LF

SF = Square Feet
LF = Linear Feet
EA = Each
* = The quantity includes entire curb associated with the auditorium roof due to homogenous material
** = The quantity includes the whole main school roof (excludes the main school entrance roof and two roofs connecting the library and main school) due to homogenous material. However, the tar does not cover the entire roof. The tar was not mopped onto the roof; it was spread throughout and used as an adhesive.

5.3 Recommendations

ACM that will be impacted by renovation or demolition work must be removed before they are disturbed. This work must be conducted in accordance with a project design as prepared by a licensed Asbestos Abatement Project Designer. This report is not intended for use as an abatement design. Prior to disturbance, the ACM identified must be abated by a Commonwealth of Massachusetts-licensed asbestos abatement contractor following all federal, state & local regulations governing asbestos abatement. A copy of the asbestos Waste Shipment record must be received within 35 days of removal from the Site. Asbestos air quality sampling must be conducted

under USEPA regulations following asbestos abatement and prior to re-occupancy of the spaces. If additional materials are discovered that have not yet been sampled, those materials should be considered ACMs until laboratory analysis determines otherwise. During renovation or demolition work, it is possible that additional suspect ACM will be encountered in areas such as subsurface tunnels, behind fixed walls, etc. and will need to be confirmed prior to disturbance. Contractors should conduct any such work in a controlled manner.

6.0 LEAD-BASED PAINT

6.1 Methods

CDW performed a visual inspection of painted surfaces. CDW collected samples from different color paints on various types of building component substrates. Samples were submitted to Aerobiology Laboratory Associates Incorporated, A Pace Laboratory, located in Woburn, Massachusetts for analysis via Atomic Absorption Spectrometry (AAS).

6.2 Findings

The results of the laboratory analysis are provided in the table below.

Sample ID	Sample Description/Location	Lead Concentration (% Weight)
LBP – 1	Maroon Paint on Louver – Roof over Swimming Pool	1.11
LBP – 2	Black Paint on Siding – Pool/Gyms Roof	0.132
LBP – 3	Black Paint on Siding – Auditorium Roof	<RL
LBP – 4	Black Paint on Siding – Main School Roof	0.113
LBP – 5	Blue Paint under Siding / On Columns – Main School Roof Entrance	<RL

<RL = Below the Reporting Limit

The Environmental Protection Agency (USEPA) and US Department of Housing and Urban Development definitions define LBP as any paint or surface coating that contains lead equal to exceeding one milligram per square centimeter (1.0 mg/cm2) or 0.5% by weight. The OSHA lead-in-construction standard defines lead containing paint (LCP) as a paint or coating containing any detectable level of lead. Five (5) total samples were collected for laboratory analysis. Three (3) out of the five samples collected reported detection of lead. Only one of the samples reported a concentration above 0.5% by weight, which makes sample LBP-1, Maroon Paint on Louver, considered LBP. The laboratory analytical report is included in Appendix C.

6.3 Recommendations

Based on the conclusions of this testing, the following recommendations are offered:

- During demolition or renovation, workers must be protected from exposure to any concentration of lead in paint materials. These surfaces should not be sanded, scraped, drilled, or otherwise altered unless proper engineering controls are used to prevent migration of fugitive lead containing dust from the work area. Under OSHA regulations, any demolition or renovation to be performed at a structure where lead in paint and dust is present must be performed in accordance with a worker protection policy, including, but not limited to, appropriate training, medical monitoring, respiratory protection, and other protective equipment.

- In addition to the worker protection requirements stipulated by OSHA, MassDEP and the USEPA regulate the disposal of wastes that are potentially hazardous. Such wastes may include paint chips and residue generated during abatement or repainting work, or whole components, such as wood windows, doors, and trim that are coated with LBP and that are disposed of as the result of renovation or demolition work. To determine the required method for disposing of permeable items coated with LBP, the MassDEP and the USEPA require representative sampling of the debris to determine the quantity of lead that would be expected to leach into the environment if the debris were disposed of in a landfill. The representative sample(s) must be analyzed by the Toxicity Characteristic Leaching Process (TCLP) to determine the proper disposal method.

Limitations

The conclusions are limited to the information available at the time of the field survey and the scope of services, as defined. No subsurface soil or groundwater sampling and analysis was performed. Where access to portions of the Site or to structures on the site was unavailable or limited, CDW renders no opinion as to the presence of hazardous material or the presence of indirect evidence related to hazardous material in that portion of the site or structure. This report cannot be solely relied upon for renovation or demolition. The sampling performed forms the basis for conclusions expressed and areas inaccessible for testing limits those conclusions. No other conclusions, interpretations or recommendations are contained or implied in this report other than those expressed. While CDW followed industry standards during the inspection, we do not warrant that all suspect hazardous building materials were identified in or on the buildings and shall not be held liable related to future abatement costs related to hazardous materials that are either not discovered or not appropriately characterized. This is due in part to inherent problems with every building inspection, such as, but not limited to:

- Seemingly homogeneous materials that are not in fact homogeneous;
- Seemingly representative locations that are not in fact representative;
- Layered materials that are not uniformly present or are isolated;
- Materials that are present and accessible but were not considered to be hazardous;
- Materials that are present in an isolated and limited quantity; and
- Material that is present in locations that are unsafe or otherwise difficult to access.

Client acknowledges that CDW's inspection is limited, and all hazardous materials may only become apparent during the course of future renovation or demolition. During the course of future renovation/demolition work, it is likely that additional hazardous materials or materials suspected of being hazardous will be identified. Such materials should be assumed to be hazardous unless appropriate evaluation or sampling and analysis demonstrate otherwise. No other use of this report is warranted without the written consent of CDW Consultants, Inc.

CDW appreciates the opportunity to provide our services to you on this project.

Very truly yours,
CDW Consultants, Inc.

Bryant Dana, Asbestos Inspector
Environmental Scientist/Assistant Project Manager

Susan Cahalan

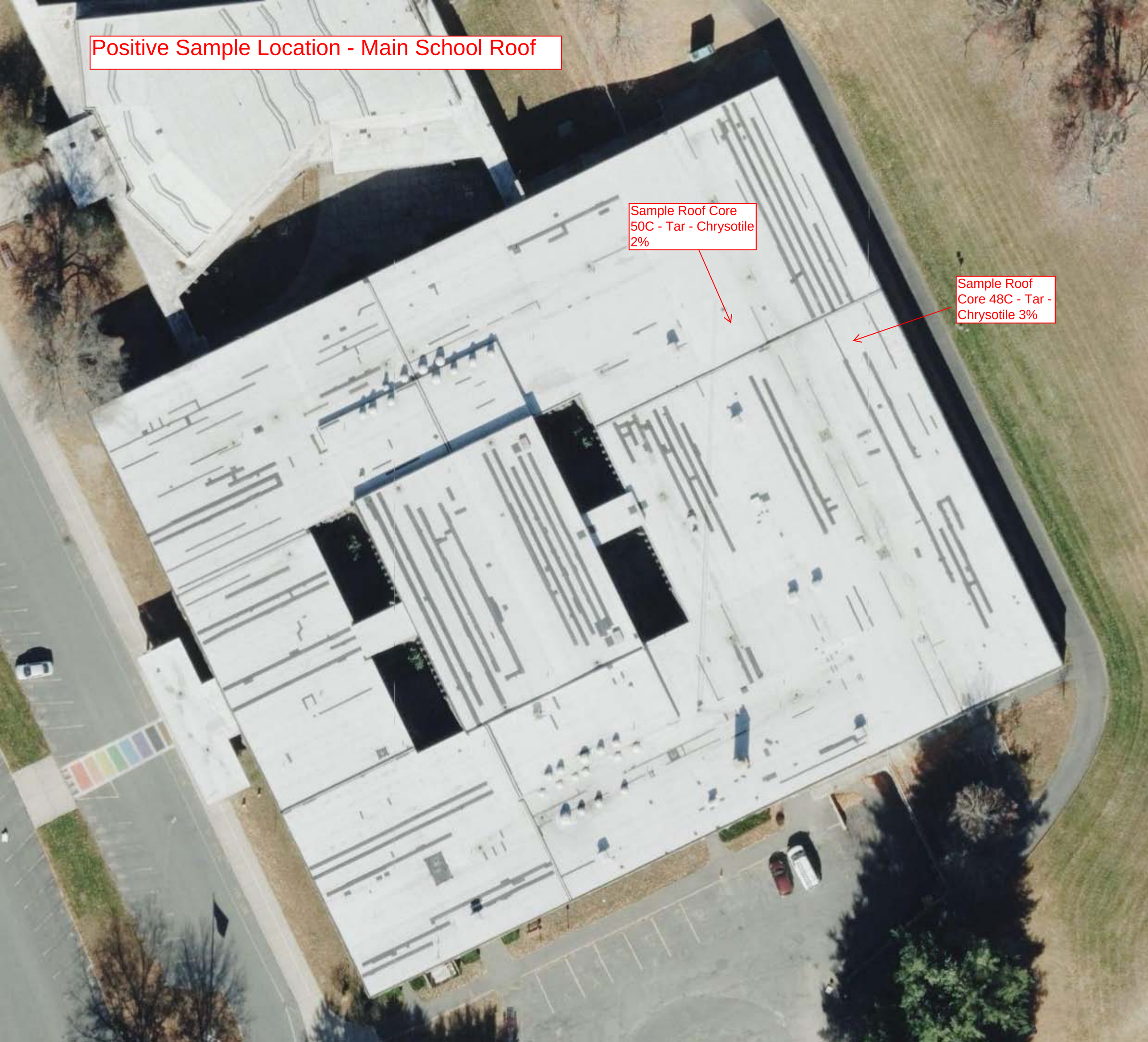
Susan Cahalan, PG, ISSP-SA
Associate/Senior Environmental Geologist

FIGURE

Amherst Regional Middle School

Positive Sample Locations - Auditorium Roof

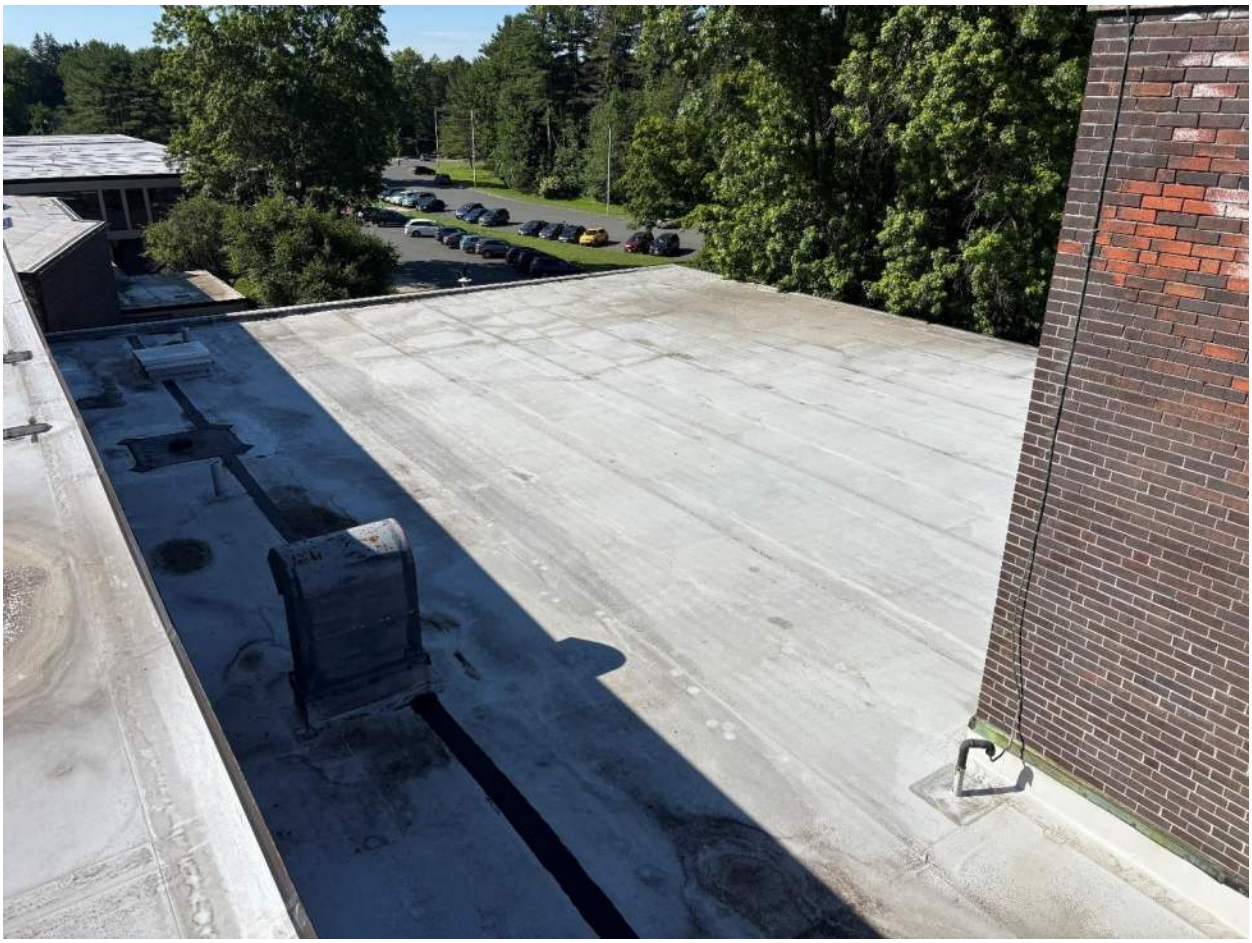
Positive Sample Location - Main School Roof



APPENDIX A

Amherst Pelham Regional Middle School Photo Log

Recreation Roof



Auditorium Roof

The gutter shown in this photo contains a Gray Sealant that is positive for ACM.

The gutter shown in this photo contains a Gray Sealant that is positive for ACM. (Gutters on either end of the auditorium roof)

The curb (side wall) (circled in red) has a tar (vapor barrier) that is positive for ACM.

The curb (side wall) (circled in red) has a tar (vapor barrier) that is positive for ACM.

The last few photos show various curb cuts on the auditorium roof.

Main School Roof

The white caulk (circled in red) shown in this photo is positive for ACM.


C-20

The last few photos show various roof cores on the main school roof. As shown tar does not cover the entire roof. In two locations (roof cores) the tar was found to be positive for ACM.

The last two photos show roof cores from the two roofs from the library to the main school. No tar was present on the metal deck.

The last two photos show roof cores from the roof above the main school entrance. The tar is mopped on this roof. The roof deck is concrete. Samples collected reported no detection of ACM.

APPENDIX B

Asbestos Identification Laboratory.

165 New Boston St., Ste 227
Woburn, MA 01801
781-932-9600

Web: www.asbestosidentificationlab.com Email: mikemanning@asbestosidentificationlab.com

NVLAP® Testing Lab Code: 200919-0

Batch: 138520

Bryant Dana
CDW Consultants, Inc.
6 Huron Drive
Natick, MA 01760

Project Information

Amherst Pelham Middle School

Method: BULK PLM ANALYSIS, EPA/600/R-93/116

Dear Bryant Dana,

Asbestos Identification Laboratory has completed the analysis of the samples from your office for the above referenced project. The Analysis Method is BULK PLM ANALYSIS, EPA/600/R-93/116The information and analysis contained in this report have been generated using the EPA /600/R-93/116 Method for the Determination of Asbestos in Bulk Building Materials. Materials or products that contain more than 1% of any kind or combination of asbestos are considered an asbestos containing building material as determined by the EPA. This Polarized Light Microscope (PLM) technique may be performed either by visual estimation or point counting. Point counting provides a determination of the area percentage of asbestos in a sample. If the asbestos is estimated to be less than 10% by visual estimation of friable material, the determination may be repeated using the point counting technique. The results of the point counting supersede visual PLM results. Results in this report only relate to the items tested. This report may not be used by the customer to claim product endorsement by NVLAP or any other U.S. Government Agency.

The EPA recommends you should assume vermiculite contains asbestos and not to disturb it. Airborne asbestos fibers present a health risk through inhalation, so the first step is to not disturb the material, which could release fibers into the air. If you disturb the insulation, you may inhale some asbestos fibers. The degree of health risk depends on how much and how often this occurred. If you choose to remove the vermiculite insulation, this work should be done by a trained and accredited asbestos abatement contractor that is separate and independent from the company that performed the assessment of the vermiculite insulation to avoid any conflict of interest. Link: "https://www.epa.gov/asbestos/my-attic-has-vermiculite-insulation-it-am-i-risk-should-i-take-it-outld I take it out? | US EPA"

Laboratory results represent the analysis of samples as submitted by the customer. Information regarding sample location, description, area, volume, etc., was provided by the customer. Information provided by the customer can affect the validity of results. Asbestos Identification Laboratory is not responsible for sample collection activities or analytical method limitations. Unless notified in writing to return samples, Asbestos Identification Laboratory discards customer samples after 30 days. Samples containing subsamples or layers will be analyzed separately when applicable. Reports are kept at Asbestos Identification Laboratory for three years. All customer information will be maintained in confidentiality. This report shall not be reproduced, except in full, without the written consent of Asbestos Identification Laboratory.

- NVLAP Lab Code: 200919-0
- Massachusetts Certification License: AA000208
- State of Connecticut, Department of Public Health Approved Environmental Laboratory Registration Number: PH-0142
- State of Maine, Department of Environmental Protection Asbestos Analytical Laboratory License Number: LB-0078(Bulk) LA-0087(Air)
- State of Rhode Island and Providence Plantations. Department of Health Certification: AAL-121
- State of Vermont, Department of Health Environmental Health License AL934461

Thank you Bryant Dana for your business.

Michael Manning
Owner/Director

Bryant Dana
CDW Consultants, Inc.
6 Huron Drive
Natick, MA 01760

Project Information

Amherst Pelham Middle School

Method: BULK PLM ANALYSIS, EPA/600/R-93/116

FieldID / LabID	Material	Location	Color	Non-Asbestos %	Asbestos %
1A / 1556719	Dark Gray Caulk on Flashing	Roof Over Swimming Pool/Gyms	gray	Non-Fibrous 100	None Detected
1B / 1556720	Dark Gray Caulk on Flashing	Roof Over Swimming Pool/Gyms	gray	Non-Fibrous 100	None Detected
2A / 1556721	Gray Caulk (Expansion Joint)	Roof Over Swimming Pool/Gyms	gray	Non-Fibrous 100	None Detected
2B / 1556722	Gray Caulk (Expansion Joint)	Roof Over Swimming Pool/Gyms	gray	Non-Fibrous 100	None Detected
3A / 1556723	Gray Caulk on Louver	Roof Over Swimming Pool/Gyms	gray	Non-Fibrous 100	None Detected
3B / 1556724	Gray Caulk on Louver	Roof Over Swimming Pool/Gyms	gray	Non-Fibrous 100	None Detected
4A / 1556725	Dark Gray Caulk on Flashing of Chimney	Roof Over Swimming Pool/Gyms	brown	Non-Fibrous 100	None Detected
4B / 1556726	Dark Gray Caulk on Flashing of Chimney	Roof Over Swimming Pool/Gyms	brown	Non-Fibrous 100	None Detected
5A / 1556727	Excess Tar on Brick Wall	Roof Over Swimming Pool/Gyms	black	Non-Fibrous 100	None Detected
5B / 1556728	Excess Tar on Brick Wall	Roof Over Swimming Pool/Gyms	black	Non-Fibrous 100	None Detected
6A / 1556729	White Caulk on Sides (Ends) of Flashing	Roof Over Swimming Pool/Gyms	white	Non-Fibrous 100	None Detected
6B / 1556730	White Caulk on Sides (Ends) of Flashing	Roof Over Swimming Pool/Gyms	white	Non-Fibrous 100	None Detected
7A / 1556731	White Sealant on HVAC Vent Hood	Roof Over Swimming Pool/Gyms	white	Non-Fibrous 100	None Detected
7B / 1556732	White Sealant on HVAC Vent Hood	Roof Over Swimming Pool/Gyms	white	Non-Fibrous 100	None Detected
8A / 1556733	Dark Gray Caulk on HVAC Vent Hood	Roof Over Swimming Pool/Gyms	gray	Non-Fibrous 100	None Detected
8B / 1556734	Dark Gray Caulk on HVAC Vent Hood	Roof Over Swimming Pool/Gyms	gray	Non-Fibrous 100	None Detected
9A / 1556735	Gray Sealant on Gutter	Roof Over Auditorium	gray	Non-Fibrous 98	Detected Chrysotile 2

Sampled: June 30, 2025 **Received:** July 10, 2025 **Analyzed:** July 15, 2025

Thursday 17 July 2025

Analyzed by: Valerie Jaouette **Batch:** 138520

Bryant Dana
CDW Consultants, Inc.
6 Huron Drive
Natick, MA 01760

Project Information

Amherst Pelham Middle School

Method: BULK PLM ANALYSIS, EPA/600/R-93/116

FieldID / LabID	Material	Location	Color	Non-Asbestos %	Asbestos %
9B / 1556736	Gray Sealant on Gutter	Roof Over Auditorium			Not Analyzed
10A / 1556737	Gray Caulking on Flashing	Roof Over Auditorium	gray	Non-Fibrous 100	None Detected
10B / 1556738	Gray Caulking on Flashing	Roof Over Auditorium	gray	Non-Fibrous 100	None Detected
10C / 1556739	Gray Caulking on Flashing	Roof Over Auditorium	gray	Non-Fibrous 100	None Detected
11A / 1556740	Dark Gray Caulk Under Gray Caulk on Flashing (in same locations)	Roof Over Auditorium	multi	Non-Fibrous 100	None Detected
11B / 1556741	Dark Gray Caulk Under Gray Caulk on Flashing (in same locations)	Roof Over Auditorium	multi	Non-Fibrous 100	None Detected
12A / 1556742	White Caulk on Flashing	Roof Over Auditorium	white	Non-Fibrous 100	None Detected
12B / 1556743	White Caulk on Flashing	Roof Over Auditorium	white	Non-Fibrous 100	None Detected
13A / 1556744	Gray Expansion Joint	Roof Over Auditorium	gray	Non-Fibrous 100	None Detected
13B / 1556745	Gray Expansion Joint	Roof Over Auditorium	gray	Non-Fibrous 100	None Detected
Roof Core 1A / 1556746	Glue/Adhesive on Rubber Membrane	(Pool/Gyms) Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 1B / 1556747	Tar Paper	(Pool/Gyms) Top/Bottom of Foam	black	Fiberglass 20 Cellulose 35 Non-Fibrous 45	None Detected
Roof Core 1C / 1556748	Tar	(Pool/Gyms) Top of Metal Deck	black	Non-Fibrous 100	None Detected
Roof Core 2A / 1556749	Glue/Adhesive on Rubber	(Pool/Gyms) Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 2B / 1556750	Tar Paper	(Pool/Gyms) Top/Bottom of Foam	black	Fiberglass 20 Cellulose 35 Non-Fibrous 45	None Detected
Roof Core 3A / 1556751	Glue/Adhesive on Rubber	(Pool/Gyms) Top Layer	yellow	Non-Fibrous 100	None Detected

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6 Huron Drive
Natick, MA 01760

Project Information

Amherst Pelham Middle School

Method: BULK PLM ANALYSIS, EPA/600/R-93/116

FieldID LabID	Material	Location	Color	Non-Asbestos %	Asbestos %
Roof Core 3B 1556752	Tar Paper	(Pool/Gyms) Top/Bottom of Foam	black	Fiberglass 20 Cellulose 35 Non-Fibrous 45	None Detected
Roof Core 3C 1556753	Tar	(Pool/Gyms) Top of Metal Deck	black	Non-Fibrous 100	None Detected
Roof Core 4A 1556754	Glue/Adhesive on Rubber	(Pool/Gyms) Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 4B 1556755	Tar Paper	(Pool/Gyms) Top/Bottom of Foam	black	Fiberglass 20 Cellulose 35 Non-Fibrous 45	None Detected
Roof Core 4C 1556756	Tar	(Pool/Gyms) Top of Metal Deck	black	Non-Fibrous 100	None Detected
Roof Core 5A 1556757	Glue/Adhesive on Rubber	(Pool/Gyms) Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 5B 1556758	Tar Paper	(Pool/Gyms) Top/Bottom of Foam	black	Fiberglass 20 Cellulose 35 Non-Fibrous 45	None Detected
Roof Core 5C 1556759	Tar/Fiberboard	(Pool/Gyms) Top of Metal Deck	black	Non-Fibrous 100	None Detected
Roof Core 6A 1556760	Glue/Adhesive on Rubber	(Pool/Gyms) Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 6B 1556761	Tar Paper	(Pool/Gyms) Top/Bottom of Foam	black	Fiberglass 20 Cellulose 35 Non-Fibrous 45	None Detected
Roof Core 6C 1556762	Tar Fiberboard	(Pool/Gyms) Top of Metal Deck	black	Non-Fibrous 100	None Detected
Roof Core 7A 1556763	Glue/Adhesive on Rubber	(Pool/Gyms) Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 7B 1556764	Tar Paper	(Pool/Gyms) Top/Bottom of Foam	black	Fiberglass 20 Cellulose 35 Non-Fibrous 45	None Detected
Roof Core 7C 1556765	Tar/Fiberboard	(Pool/Gyms) Top of Metal Deck	black	Non-Fibrous 100	None Detected
Roof Core 8A 1556766	Glue/Adhesive on Rubber	(Pool/Gyms) Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 8B 1556767	Tar Paper	(Pool/Gyms) Top/Bottom of Foam	black	Fiberglass 20 Cellulose 35 Non-Fibrous 45	None Detected

Sampled: June 30, 2025 **Received:** July 10, 2025 **Analyzed:** July 15, 2025

Thursday 17 July 2025

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6 Huron Drive
Natick, MA 01760

Project Information

Amherst Pelham Middle School

Method: BULK PLM ANALYSIS, EPA/600/R-93/116

FieldID LabID	Material	Location	Color	Non-Asbestos %	Asbestos %
Roof Core 8C 1556768	Tar	(Pool/Gyms) Top of Metal Deck	black	Non-Fibrous 100	None Detected
Curb Cut 1A 1556769	Glue/Adhesive on Rubber	(Pool/Gyms) Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 9A 1556770	Glue/Adhesive on Rubber	(Pool/Gyms) Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 9B 1556771	Tar Paper	(Pool/Gyms) Top/Bottom of Foam	black	Fiberglass 20 Cellulose 35 Non-Fibrous 45	None Detected
Roof Core 10A 1556772	Glue/Adhesive on Rubber	(Pool/Gyms) Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 10B 1556773	Tar Paper	(Pool/Gyms) Top/Bottom of Foam	black	Fiberglass 20 Cellulose 35 Non-Fibrous 45	None Detected
Roof Core 10C 1556774	Tar	(Pool/Gyms) Top of Metal Deck	black	Non-Fibrous 100	None Detected
Roof Core 11A 1556775	Glue/Adhesive on Rubber	(Pool/Gyms) Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 11B 1556776	Tar Paper	(Pool/Gyms) Top/Bottom of Foam	black	Fiberglass 20 Cellulose 35 Non-Fibrous 45	None Detected
Curb Cut 2A 1556777	Glue/Adhesive on Rubber	(Pool/Gyms) (Chimney) Top Layer	tan	Non-Fibrous 100	None Detected
Roof Core 12A 1556778	Glue/Adhesive on Rubber	(Auditorium) Top Layer	tan	Non-Fibrous 100	None Detected
Roof Core 12B 1556779	Tar Paper	(Auditorium) Top/Bottom of Foam	brown	Fiberglass 20 Cellulose 60 Non-Fibrous 20	None Detected
Roof Core 13A 1556780	Glue/Adhesive on Rubber	(Auditorium) Top Layer	tan	Non-Fibrous 100	None Detected
Roof Core 13B 1556781	Tar Paper	(Auditorium) Top/Bottom of Foam	brown	Fiberglass 20 Cellulose 60 Non-Fibrous 20	None Detected
Roof Core 14A 1556782	Glue/Adhesive on Rubber	(Auditorium) Top Layer	tan	Non-Fibrous 100	None Detected
Roof Core 14B 1556783	Tar Paper	(Auditorium) Top/Bottom of Foam	brown	Fiberglass 20 Cellulose 60 Non-Fibrous 20	None Detected

Sampled: June 30, 2025 **Received:** July 10, 2025 **Analyzed:** July 15, 2025

Thursday 17 July 2025

Analyzed by: Valerie Jaouette **Batch:** 138520

Bryant Dana
CDW Consultants, Inc.
6 Huron Drive
Natick, MA 01760

Project Information

Amherst Pelham Middle School

Method: BULK PLM ANALYSIS, EPA/600/R-93/116

FieldID LabID	Material	Location	Color	Non-Asbestos %	Asbestos %
Roof Core 15A 1556784	Glue/Adhesive on Rubber	(Auditorium) Top Layer	tan	Non-Fibrous 100	None Detected
Roof Core 15B 1556785	Tar Paper	(Auditorium) Top/Bottom of Foam	brown	Fiberglass 20 Cellulose 60 Non-Fibrous 20	None Detected
Roof Core 16A 1556786	Glue/Adhesive on Rubber	(Auditorium) Top Layer	tan	Non-Fibrous 100	None Detected
Roof Core 16B 1556787	Tar Paper	(Auditorium) Top/Bottom of Foam	gray	Fiberglass 20 Cellulose 60 Non-Fibrous 20	None Detected
Roof Core 16C 1556788	Tar on Concrete Deck	(Auditorium) Top of Concrete Deck	black	Non-Fibrous 100	None Detected
Roof Core 17A 1556789	Glue/Adhesive on Rubber	(Auditorium) Top Layer	tan	Non-Fibrous 100	None Detected
Roof Core 17B 1556790	Tar Paper	(Auditorium) Top/Bottom of Foam	gray	Fiberglass 20 Cellulose 60 Non-Fibrous 20	None Detected
Roof Core 18A 1556791	Glue/Adhesive on Rubber NO SAMPLE	(Auditorium) Top Layer			Not Analyzed
Roof Core 18B 1556792	Tar Paper	(Auditorium) Top/Bottom of Foam	gray	Fiberglass 20 Cellulose 60 Non-Fibrous 20	None Detected
Roof Core 18C 1556793	Tar on Concrete Deck	(Auditorium) Top of Concrete Deck	black	Non-Fibrous 100	None Detected
Curb Cut 3A 1556794	Glue/Adhesive	(Auditorium) Top Layer	tan	Non-Fibrous 100	None Detected
Curb Cut 3B 1556795	Tar (Vapor Barrier)	(Auditorium) on Wall	black	Non-Fibrous 100	None Detected
Curb Cut 4A 1556796	Glue/Adhesive	(Auditorium) Top Layer	tan	Non-Fibrous 100	None Detected
Curb Cut 4B 1556797	Insulation	(Auditorium) Top Layer	white	Synthetic 80 Non-Fibrous 20	None Detected
Curb Cut 4C 1556798	Tar (Vapor Barrier)	(Auditorium) on Wall	black	Non-Fibrous 100	None Detected
Roof Core 19A 1556799	Glue/Adhesive NO SAMPLE	(Auditorium) Top Layer			Not Analyzed

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Analyzed by: Valerie Jaouette **Batch:** 138520

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Project Information

Amherst Pelham Middle School

Method: BULK PLM ANALYSIS, EPA/600/R-93/116

FieldID LabID	Material	Location	Color	Non-Asbestos %	Asbestos %
Roof Core 19B 1556800	Insulation	(Auditorium) Between Rubber and Wall	gray	Fiberglass 20 Cellulose 60 Non-Fibrous 20	None Detected
Roof Core 19C 1556801	Tar	(Auditorium) on Wall	black	Non-Fibrous 100	None Detected
Roof Core 20A 1556802	Glue/Adhesive	(Auditorium) Top Layer	tan	Non-Fibrous 100	None Detected
Roof Core 20B 1556803	Tar Paper	(Auditorium) Top/Bottom of Foam	gray	Fiberglass 20 Cellulose 60 Non-Fibrous 20	None Detected
Roof Core 20C 1556804	Tar/Fiberboard	(Auditorium) Top of Metal Deck	multi	Cellulose 70 Non-Fibrous 30	None Detected
Roof Core 21A 1556805	Glue/Adhesive	(Auditorium) Top Layer	tan	Non-Fibrous 100	None Detected
Roof Core 21B 1556806	Tar Paper	(Auditorium) Top/Bottom of Foam	gray	Fiberglass 20 Cellulose 60 Non-Fibrous 20	None Detected
Roof Core 21C 1556807	Tar/Fiberboard	(Auditorium) Top of Metal Deck	multi	Cellulose 70 Non-Fibrous 30	None Detected
Curb Cut 5A 1556808	Glue/Adhesive	(Auditorium) Top Layer	tan	Non-Fibrous 100	None Detected
Curb Cut 5B 1556809	Insulation	(Auditorium) Between Rubber and Wall	white	Synthetic 80 Non-Fibrous 20	None Detected
Curb Cut 5C 1556810	Tar	(Auditorium) on Wall	black	Non-Fibrous 100	None Detected
Roof Core 22A 1556811	Glue/Adhesive	(Auditorium) Top Layer	tan	Non-Fibrous 100	None Detected
Roof Core 22B 1556812	Tar Paper	(Auditorium) Top/Bottom of Foam	gray	Fiberglass 20 Cellulose 60 Non-Fibrous 20	None Detected
Roof Core 22C 1556813	Tar	(Auditorium) Top of Deck	black	Non-Fibrous 100	None Detected
Roof Core 23A 1556814	Glue/Adhesive	(Auditorium) Top Layer	tan	Non-Fibrous 100	None Detected
Roof Core 23B 1556815	Tar Paper	(Auditorium) Top/Bottom of Foam	gray	Fiberglass 20 Cellulose 60 Non-Fibrous 20	None Detected

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Method: BULK PLM ANALYSIS, EPA/600/R-93/116

FieldID LabID	Material	Location	Color	Non-Asbestos %	Asbestos %
Roof Core 24A 1556816	Glue/Adhesive	(Auditorium) Top Layer	tan	Non-Fibrous 100	None Detected
Roof Core 24B 1556817	Tar Paper	(Auditorium) Top/Bottom of Foam	gray	Fiberglass 20 Cellulose 60 Non-Fibrous 20	None Detected
Roof Core 24C 1556818	Tar/Fiberboard	(Auditorium) Top of Deck	multi	Cellulose 70 Non-Fibrous 30	None Detected
Curb Cut 7A 1556819	Glue/Adhesive	(Auditorium) Top Layer	tan	Non-Fibrous 100	None Detected
Curb Cut 7B 1556820	Insulation	(Auditorium) Between Rubber and Wall	white	Synthetic 80 Non-Fibrous 20	None Detected
Roof Core 25A 1556821	Glue/Adhesive	(Auditorium) Top Layer	tan	Non-Fibrous 100	None Detected
Roof Core 25B 1556822	Tar Paper	(Auditorium) Top/Bottom of Foam	gray	Fiberglass 20 Cellulose 60 Non-Fibrous 20	None Detected
Roof Core 25C 1556823	Tar/Fiberboard	(Auditorium) Top of Deck	multi	Cellulose 70 Non-Fibrous 30	None Detected
Roof Core 26A 1556824	Glue/Adhesive	(Auditorium) Top Layer	tan	Non-Fibrous 100	None Detected
Roof Core 26B 1556825	Tar Paper	(Auditorium) Top/Bottom of Foam	gray	Fiberglass 20 Cellulose 60 Non-Fibrous 20	None Detected
Roof Core 26C 1556826	Tar/Fiberboard	(Auditorium) Top of Deck	multi	Cellulose 70 Non-Fibrous 30	None Detected
Curb Cut 8A 1556827	Glue	(Auditorium) Top Layer	tan	Non-Fibrous 100	None Detected
Curb Cut 8B 1556828	Insulation	(Auditorium) Between Rubber and Wall	white	Synthetic 80 Non-Fibrous 20	None Detected
Curb Cut 8C 1556829	Tar	(Auditorium) on Wall	black	Non-Fibrous 100	None Detected
Roof Core 27A 1556830	Glue	(Auditorium) Top Layer	tan	Non-Fibrous 100	None Detected
Roof Core 27B 1556831	Tar Paper	(Auditorium) Top/Bottom of Foam	gray	Fiberglass 20 Cellulose 60 Non-Fibrous 20	None Detected

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FieldID LabID	Material	Location	Color	Non-Asbestos %	Asbestos %
Roof Core 27C 1556832	Tar/Fiberboard	(Auditorium) Top of Deck	multi	Cellulose 70 Non-Fibrous 30	None Detected
Roof Core 28A 1556833	Glue	(Auditorium) Top Layer	tan	Non-Fibrous 100	None Detected
Roof Core 28B 1556834	Tar Paper	(Auditorium) Top/Bottom of Foam	gray	Fiberglass 20 Cellulose 60 Non-Fibrous 20	None Detected
Roof Core 28C 1556835	Tar/Fiberboard	(Auditorium) Top Deck	multi	Cellulose 70 Non-Fibrous 30	**Detected** **Chrysotile < 1**
Roof Core 29A 1556836	Glue	(Auditorium) Top Layer	tan	Non-Fibrous 100	None Detected
Roof Core 29B 1556837	Tar Paper	(Auditorium) Top/Bottom of Foam	gray	Fiberglass 20 Cellulose 60 Non-Fibrous 20	None Detected
Roof Core 29C 1556838	Tar	(Auditorium) Top of Deck - Concrete Deck	black	Non-Fibrous 100	None Detected
Roof Core 30A 1556839	Glue	(Auditorium) Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 30B 1556840	Tar Paper	(Auditorium) Top/Bottom of Foam	gray	Fiberglass 20 Cellulose 75 Non-Fibrous 5	None Detected
Roof Core 30C 1556841	Tar/Fiberboard	(Auditorium) Top of Deck	multi	Cellulose 80 Non-Fibrous 20	None Detected
Roof Core 31A 1556842	Glue	(Auditorium) Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 31B 1556843	Tar Paper	(Auditorium) Top/Bottom of Foam	gray	Fiberglass 20 Cellulose 75 Non-Fibrous 5	None Detected
Roof Core 31C 1556844	Tar/Fiberboard	(Auditorium) Top of Deck	multi	Cellulose 80 Non-Fibrous 20	None Detected
Curb Cut 9A 1556845	Glue	(Auditorium) Top Layer	yellow	Non-Fibrous 100	None Detected
Curb Cut 9B 1556846	Insulation	(Auditorium) Between Rubber and Wall	white	Synthetic 90 Non-Fibrous 10	None Detected
Curb Cut 9C 1556847	Tar	(Auditorium) on Wall	black	Non-Fibrous 100	None Detected

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Method: BULK PLM ANALYSIS, EPA/600/R-93/116

FieldID LabID	Material	Location	Color	Non-Asbestos %	Asbestos %
Curb Cut 10A 1556848	Glue	(Auditorium) Top Layer	yellow	Non-Fibrous 100	None Detected
Curb Cut 10B 1556849	Insulation	(Auditorium) Between Rubber and Wall	white	Synthetic 90 Non-Fibrous 10	None Detected
Curb Cut 10C 1556850	Tar	(Auditorium) on Wall	black	Non-Fibrous 100	None Detected
Roof Cut 32A 1556851	Glue	(Auditorium) Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Cut 32B 1556852	Tar Paper	(Auditorium) Top/Bottom of Foam	gray	Fiberglass 20 Cellulose 75 Non-Fibrous 5	None Detected
Roof Cut 32C 1556853	Tar/Fiberboard	(Auditorium) Top of Deck	multi	Cellulose 80 Non-Fibrous 20	None Detected
Roof Core 33A 1556854	Glue NO SAMPLE	(Auditorium) Top Layer			Not Analyzed
Roof Core 33B 1556855	Tar Paper	(Auditorium) Top/Bottom of Foam	gray	Fiberglass 20 Cellulose 75 Non-Fibrous 5	None Detected
Roof Core 33C 1556856	Tar/Fiberboard	(Auditorium) Top of Deck	multi	Cellulose 80 Non-Fibrous 20	None Detected
Curb Cut 11A 1556857	Glue	(Auditorium) Top Layer	yellow	Non-Fibrous 100	None Detected
Curb Cut 11B 1556858	Insulation	(Auditorium) Between Rubber and Wall	white	Synthetic 90 Non-Fibrous 10	None Detected
Curb Cut 11C 1556859	Tar	(Auditorium) on Wall	black	Non-Fibrous 80	**Detected** **Chrysotile 20**
Roof Core 34A 1556860	Glue	(Auditorium) Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 34B 1556861	Tar Paper	(Auditorium) Top/Bottom of Foam	gray	Fiberglass 20 Cellulose 75 Non-Fibrous 5	None Detected
Roof Core 34C 1556862	Tar/Fiberboard	(Auditorium) Top of Deck	multi	Cellulose 80 Non-Fibrous 20	None Detected
Curb Cut 12A 1556863	Glue	(Auditorium) Top Layer	yellow	Non-Fibrous 100	None Detected

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Project Information

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Method: BULK PLM ANALYSIS, EPA/600/R-93/116

FieldID / LabID	Material	Location	Color	Non-Asbestos %	Asbestos %
Curb Cut 12B 1556864	Insulation	(Auditorium) Between Rubber and Wall	white	Synthetic 90 Non-Fibrous 10	None Detected
Curb Cut 12C 1556865	Tar	(Auditorium) on Wall	black	Non-Fibrous 100	None Detected
Roof Core 35A 1556866	Glue	(Auditorium) Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 35B 1556867	Tar Paper	(Auditorium) Top/Bottom Layer of Foam	gray	Fiberglass 20 Cellulose 75 Non-Fibrous 5	None Detected
Roof Core 35C 1556868	Tar/Fiberboard	(Auditorium) Top of Deck	multi	Cellulose 80 Non-Fibrous 20	None Detected
Roof Core 36A 1556869	Glue	(Auditorium) Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 36B 1556870	Tar Paper	(Auditorium) Top/Bottom of Foam	gray	Fiberglass 20 Cellulose 75 Non-Fibrous 5	None Detected
Roof Core 36C 1556871	Tar	(Auditorium) Top of Deck - Concrete	black	Non-Fibrous 100	None Detected
Roof Core 37A 1556872	Glue	(Auditorium) Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 37B 1556873	Tar Paper	(Auditorium) Top/Bottom of Foam	gray	Fiberglass 20 Cellulose 75 Non-Fibrous 5	None Detected
Roof Core 37C 1556874	Tar	(Auditorium) Top of Deck - Concrete	multi	Non-Fibrous 100	None Detected
Curb Cut 13A 1556875	Glue	(Auditorium) Top Layer	yellow	Non-Fibrous 100	None Detected
Curb Cut 13B 1556876	Insulation	(Auditorium) Between Rubber and Wall	white	Synthetic 80 Non-Fibrous 20	None Detected
Curb Cut 13C 1556877	Tar	on Wall	black	Non-Fibrous 100	None Detected
Curb Cut 14A 1556878	Glue	Top Layer	yellow	Non-Fibrous 100	None Detected
Curb Cut 14B 1556879	Insulation	(Auditorium) Between Rubber and Wall	white	Synthetic 80 Non-Fibrous 20	None Detected

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FieldID / LabID	Material	Location	Color	Non-Asbestos %	Asbestos %
Curb Cut 14C / 1556880	Tar	(Auditorium) on Wall	black	Non-Fibrous 100	None Detected
Roof Core 38A / 1556881	Glue	(Auditorium) Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 38B / 1556882	Tar Paper	(Auditorium) Top/Bottom of Foam	gray	Fiberglass 20 Cellulose 75 Non-Fibrous 5	None Detected
Roof Core 38C / 1556883	Brick	(Auditorium) Top of Deck	red	Non-Fibrous 100	None Detected
Roof Core 38D / 1556884	Tar on Brick	(Auditorium) Top of Deck	black	Non-Fibrous 100	None Detected
Roof Core 38E / 1556885	Tar/Fiberboard	(Auditorium) Top on Metal Deck	brown	Cellulose 90 Non-Fibrous 10	None Detected
Curb Cut 15A / 1556886	Glue	Top Layer	yellow	Non-Fibrous 100	None Detected
Curb Cut 15B / 1556887	Insulation	(Auditorium) Between Rubber and Wall	multi	Fiberglass 15 Non-Fibrous 85	None Detected
Curb Cut 15C / 1556888	Tar NO SAMPLE	(Auditorium) on Wall			Not Analyzed
Roof Core 39A / 1556889	Glue	(Auditorium) Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 39B / 1556890	Tar Paper	(Auditorium) Top/Bottom of Foam	gray	Fiberglass 20 Cellulose 75 Non-Fibrous 5	None Detected
Roof Core 40A / 1556891	Glue (on Tar Paper)	Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 40B / 1556892	Tar Paper	Top/Bottom of Foam	gray	Fiberglass 20 Cellulose 75 Non-Fibrous 5	None Detected
Curb Cut 16A / 1556893	-	-	yellow	Non-Fibrous 100	None Detected
Roof Core 43A / 1556894	Glue	-	yellow	Non-Fibrous 100	None Detected
Roof Core 43B / 1556895	Tar Paper	-	gray	Fiberglass 20 Cellulose 75 Non-Fibrous 5	None Detected

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Method: BULK PLM ANALYSIS, EPA/600/R-93/116

FieldID / LabID	Material	Location	Color	Non-Asbestos %	Asbestos %
Curb Cut 17A / 1556896	Glue	Top Layer	yellow	Non-Fibrous 100	None Detected
Curb Cut 17B / 1556897	Tar (on Wood)	on Wall	black	Non-Fibrous 100	None Detected
Roof Core 44A / 1556898	Glue	Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 44B / 1556899	Tar Paper	Top/Bottom of Foam	black	Cellulose 95 Non-Fibrous 5	None Detected
Roof Core 44C / 1556900	Tar	Top of Deck	black	Cellulose 5 Non-Fibrous 95	None Detected
Curb Cut 18A / 1556901	Glue	Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 45A / 1556902	Glue	Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 45B / 1556903	Tar Paper	Top/Bottom of Foam	black	Cellulose 95 Non-Fibrous 5	None Detected
Curb Cut 19A / 1556904	Glue	Top Layer	yellow	Non-Fibrous 100	None Detected
Curb Cut 20A / 1556905	Glue	Top Layer	yellow	Non-Fibrous 100	None Detected
Curb Cut 21A / 1556906	Glue	Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 46A / 1556907	Glue	Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 46B / 1556908	Tar Paper	Top/Bottom of Foam	black	Cellulose 95 Non-Fibrous 5	None Detected
Roof Core 47A / 1556909	Glue/Adhesive	Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 47B / 1556910	Tar Paper	Top/Bottom of Foam	black	Cellulose 95 Non-Fibrous 5	None Detected
Roof Core 47C / 1556911	Tar	Top of Deck (Metal Deck)	black	Cellulose 5 Non-Fibrous 95	None Detected
Roof Core 48A / 1556912	Glue/Adhesive	Top Layer	yellow	Non-Fibrous 100	None Detected

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FieldID LabID	Material	Location	Color	Non-Asbestos %	Asbestos %
Roof Core 48B 1556913	Tar Paper	Top/Bottom of Foam	black	Cellulose 95 Non-Fibrous 5	None Detected
Roof Core 48C 1556914	Tar	Top of Deck (Metal Deck)	black	Non-Fibrous 97	**Detected** **Chrysotile 3**
Roof Core 49A 1556915	Glue/Adhesive	Top Layer	yellow	Non-Fibrous 100	None Detected
49B 1556916	Tar Paper	Top/Bottom Layer of Foam	black	Cellulose 95 Non-Fibrous 5	None Detected
Roof Core 50A 1556917	Glue/Adhesive	Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 50B 1556918	Tar Paper	Top/Bottom Layer of Foam	black	Cellulose 95 Non-Fibrous 5	None Detected
Roof Core 50C 1556919	Tar/Tar Paper	Top of Deck	black	Cellulose 80 Non-Fibrous 18	**Detected** **Chrysotile 2**
Roof Core 51A 1556920	Glue/Adhesive	Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 51B 1556921	Tar Paper	Top/Bottom Layer of Foam	black	Cellulose 95 Non-Fibrous 5	None Detected
Roof Core 51C 1556922	Tar/Fiberboard	Top of Deck	multi	Fiberglass 20 Cellulose 70 Non-Fibrous 10	None Detected
Roof Core 52A 1556923	Glue/Adhesive	Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 52B 1556924	Tar Paper	Top/Bottom Layer of Foam	black	Cellulose 95 Non-Fibrous 5	None Detected
Roof Core 52C 1556925	Tar/Fiberboard	Top of Deck	brown	Cellulose 98 Non-Fibrous 2	None Detected
Roof Core 53A 1556926	Glue/Adhesive	Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 53B 1556927	Tar Paper	Top/Bottom of Foam	black	Cellulose 95 Non-Fibrous 5	None Detected
Roof Core 54A 1556928	Glue/Adhesive	Top Layer	yellow	Non-Fibrous 100	None Detected

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FieldID LabID	Material	Location	Color	Non-Asbestos %	Asbestos %
Roof Core 54B 1556929	Tar Paper	Top/Bottom Layer of Foam	black	Cellulose 95 Non-Fibrous 5	None Detected
Roof Core 54C 1556930	Tar/Fiberboard	Top of Deck	multi	Cellulose 40 Non-Fibrous 60	None Detected
Curb Cut 22A 1556931	Glue	Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 55A 1556932	Glue/Adhesive	Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 55B 1556933	Tar Paper	Top/Bottom Layer of Foam	black	Cellulose 95 Non-Fibrous 5	None Detected
Roof Core 55C 1556934	Tar/Fiberboard	Top of Deck	multi	Cellulose 70 Non-Fibrous 30	None Detected
Curb Cut 23A 1556935	Glue	Top Layer	yellow	Non-Fibrous 100	None Detected
Curb Cut 23B 1556936	Tar	On Wall/Vapor Barrier	black	Cellulose 70 Non-Fibrous 30	None Detected
Roof Core 56A 1556937	Glue/Adhesive	Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 56B 1556938	Tar Paper	Top/Bottom of Foam (Metal Deck)	black	Cellulose 95 Non-Fibrous 5	None Detected
Roof Core 57A 1556939	Glue/Adhesive	Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 57B 1556940	Tar Paper	Top/Bottom of Foam (Metal Deck)	black	Cellulose 95 Non-Fibrous 5	None Detected
Curb Cut 24A 1556941	Glue/Adhesive	Top Layer (Rubber Membrane to Brick Wall)	yellow	Non-Fibrous 100	None Detected
Curb Cut 25A 1556942	Glue/Adhesive	Top Layer (Wood Wall)	yellow	Non-Fibrous 100	None Detected
Roof Core 58A 1556943	Glue/Adhesive	Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 58B 1556944	Tar Paper	Top/Bottom Layer of Foam	black	Cellulose 95 Non-Fibrous 5	None Detected
Roof Core 58C 1556945	Tar/Fiberboard	Top of Deck	multi	Cellulose 60 Non-Fibrous 40	None Detected

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FieldID LabID	Material	Location	Color	Non-Asbestos %	Asbestos %
Roof Core 59A 1556946	Glue/Adhesive	Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 59B 1556947	Tar Paper	Top/Bottom Layer of Foam	black	Cellulose 95 Non-Fibrous 5	None Detected
Roof Core 59C 1556948	Tar/Fiberboard	Top of Deck	multi	Cellulose 30 Non-Fibrous 70	None Detected
Roof Core 60A 1556949	Glue/Adhesive	Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 60B 1556950	Tar Paper	Top/Bottom Layer of Foam	black	Cellulose 95 Non-Fibrous 5	None Detected
Roof Core 60C 1556951	Tar/Fiberboard	Top of Deck	multi	Cellulose 70 Non-Fibrous 30	None Detected
Roof Core 61A 1556952	Glue	Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 61B 1556953	Tar Paper	Top/Bottom Layer of Foam	black	Cellulose 95 Non-Fibrous 5	None Detected
Roof Core 61C 1556954	Tar	Top of Deck	black	Cellulose 5 Non-Fibrous 95	None Detected
Cub Cut 26A 1556955	Glue	On Chimney (Rubber to Wood)	yellow	Non-Fibrous 100	None Detected
Roof Core 62A 1556956	Glue/Adhesive	Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 62B 1556957	Tar Paper	Top/Bottom of Foam	black	Cellulose 95 Non-Fibrous 5	None Detected
Roof Core 63A 1556958	Glue/Adhesive	-	brown	Non-Fibrous 100	None Detected
Roof Core 63B 1556959	-	-	multi	Cellulose 60 Non-Fibrous 40	None Detected
Cub Cut 27A 1556960	Glue	Rubber to Brick	yellow	Non-Fibrous 100	None Detected
Cub Cut 28A 1556961	Glue	On Wood	yellow	Non-Fibrous 100	None Detected
Roof Core 64A 1556962	Glue/Adhesive	Top Layer	brown	Non-Fibrous 100	None Detected

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Project Information

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Method: BULK PLM ANALYSIS, EPA/600/R-93/116

FieldID LabID	Material	Location	Color	Non-Asbestos %	Asbestos %
Roof Core 64B 1556963	Tar Paper	Top/Bottom of Foam	multi	Fiberglass 15 Cellulose 70 Non-Fibrous 15	None Detected
Roof Core 64C 1556964	Tar	Top of Deck	black	Non-Fibrous 100	None Detected
Roof Core 65A 1556965	Glue/Adhesive	Top Layer	multi	Cellulose 10 Non-Fibrous 90	None Detected
Roof Core 65B 1556966	Tar Paper	Top/Bottom of Foam	multi	Fiberglass 15 Cellulose 70 Non-Fibrous 15	None Detected
Roof Core 65C 1556967	Tar	Top of Deck	black	Cellulose 10 Non-Fibrous 90	None Detected
Roof Core 66A 1556968	Glue/Adhesive	Top Layer	multi	Cellulose 10 Non-Fibrous 90	None Detected
Roof Core 66B 1556969	Tar Paper	Top/Bottom of Foam	multi	Fiberglass 15 Cellulose 70 Non-Fibrous 15	None Detected
Roof Core 66C 1556970	Tar	Top of Deck	black	Cellulose 10 Non-Fibrous 90	None Detected
Roof Core 67A 1556971	Glue/Adhesive	Top Layer	multi	Cellulose 10 Non-Fibrous 90	None Detected
Roof Core 67B 1556972	Tar Paper	Top/Bottom of Foam	multi	Fiberglass 15 Cellulose 70 Non-Fibrous 15	None Detected
Roof Core 67C 1556973	Tar	Top of Deck	black	Cellulose 10 Non-Fibrous 90	None Detected
Roof Core 68A 1556974	Glue/Adhesive	Top Layer	multi	Cellulose 10 Non-Fibrous 90	None Detected
Roof Core 68B 1556975	Tar Paper	Top/Bottom of Foam	multi	Fiberglass 15 Cellulose 70 Non-Fibrous 15	None Detected
Roof Core 68C 1556976	Tar/Fiberboard	Top of Deck	multi	Cellulose 70 Non-Fibrous 30	None Detected
Roof Core 69A 1556977	Glue/Adhesive	Top Layer	multi	Cellulose 10 Non-Fibrous 90	None Detected
Roof Core 69B 1556978	Tar Paper	Top/Bottom of Deck	multi	Fiberglass 15 Cellulose 70 Non-Fibrous 15	None Detected

Sampled: June 30, 2025 **Received:** July 10, 2025 **Analyzed:** July 15, 2025

Thursday 17 July 2025

Analyzed by: Valerie Jaouette **Batch:** 138520

Bryant Dana
CDW Consultants, Inc.
6 Huron Drive
Natick, MA 01760

Project Information

Amherst Pelham Middle School

Method: BULK PLM ANALYSIS, EPA/600/R-93/116

FieldID LabID	Material	Location	Color	Non-Asbestos %	Asbestos %
Roof Core 69C 1556979	Tar/Fiberboard	Top of Deck	multi	Cellulose 40 Non-Fibrous 60	None Detected
Roof Core 70A 1556980	Glue/Adhesive	Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 70B 1556981	Tar Paper	Top/Bottom of Foam	multi	Fiberglass 15 Cellulose 70 Non-Fibrous 15	None Detected
Roof Core 70C 1556982	Tar/Fiberboard	Top of Deck	multi	Cellulose 40 Non-Fibrous 60	None Detected
Roof Core 71A 1556983	Glue/Adhesive	Top Layer	multi	Cellulose 10 Non-Fibrous 90	None Detected
Roof Core 71B 1556984	Tar Paper	Top/Bottom of Foam	multi	Fiberglass 15 Cellulose 70 Non-Fibrous 15	None Detected
Roof Core 71C 1556985	Tar/Fiberboard	Top of Deck	multi	Cellulose 40 Non-Fibrous 60	None Detected
Roof Core 72A 1556986	Glue/Adhesive	Top Layer	yellow	Cellulose 10 Non-Fibrous 90	None Detected
Roof Core 72B 1556987	Tar Paper	Top/Bottom of Foam	multi	Fiberglass 15 Cellulose 70 Non-Fibrous 15	None Detected
Roof Core 72C 1556988	Tar/Fiberboard	Top of Deck	multi	Cellulose 40 Non-Fibrous 60	None Detected
Roof Core 73A 1556989	Glue/Adhesive	Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 73B 1556990	Tar Paper	Top/Bottom of Foam	multi	Fiberglass 15 Cellulose 70 Non-Fibrous 15	None Detected
Roof Core 73C 1556991	Tar/Fiberboard	Top of Deck	multi	Cellulose 40 Non-Fibrous 60	None Detected
Roof Core 74A 1556992	Glue/Adhesive	Top Layer	multi	Non-Fibrous 100	None Detected
Roof Core 74B 1556993	Tar Paper	Top/Bottom of Foam	multi	Fiberglass 15 Cellulose 70 Non-Fibrous 15	None Detected
Roof Core 74C 1556994	Tar	Top of Deck	black	Non-Fibrous 100	None Detected

Sampled: June 30, 2025 **Received:** July 10, 2025 **Analyzed:** July 15, 2025

Thursday 17 July 2025

Analyzed by: Valerie Jaworski **Batch:** 138520

Bryant Dana
CDW Consultants, Inc.
6 Huron Drive
Natick, MA 01760

Project Information

Amherst Pelham Middle School

Method: BULK PLM ANALYSIS, EPA/600/R-93/116

FieldID LabID	Material	Location	Color	Non-Asbestos %	Asbestos %
Roof Core 75A 1556995	Glue/Adhesive	Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 75B 1556996	Tar Paper	Top/Bottom of Foam	multi	Fiberglass 15 Cellulose 70 Non-Fibrous 15	None Detected
Roof Core 76A 1556997	Glue/Adhesive	Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 76B 1556998	Tar Paper	Top/Bottom of Foam	multi	Fiberglass 15 Cellulose 70 Non-Fibrous 15	None Detected
Roof Core 76C 1556999	Tar/Fiberboard	Top of Deck	multi	Cellulose 10 Non-Fibrous 90	None Detected
Roof Core 77A 1557000	Glue/Adhesive	Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 77B 1557001	Tar Paper	Top/Bottom of Foam	multi	Fiberglass 15 Cellulose 70 Non-Fibrous 15	None Detected
Roof Core 77C 1557002	Tar/Fiberboard	Top of Deck	multi	Fiberglass 15 Cellulose 70 Non-Fibrous 15	None Detected
Roof Core 78A 1557003	Glue/Adhesive	Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 78B 1557004	Tar Paper	Top/Bottom of Foam	multi	Fiberglass 15 Cellulose 70 Non-Fibrous 15	None Detected
Roof Core 78C 1557005	Tar/Fiberboard	Top of Deck	multi	Cellulose 10 Non-Fibrous 90	None Detected
Roof Core 79A 1557006	Glue/Adhesive	Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 79B 1557007	Tar Paper	Top/Bottom of Foam (School Entrance)	multi	Fiberglass 15 Cellulose 70 Non-Fibrous 15	None Detected
Roof Core 79C 1557008	Tar	Top of Deck (School Entrance)	black	Non-Fibrous 100	None Detected
Roof Core 80A 1557009	Glue/Adhesive	Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 80B 1557010	Tar Paper	Top/Bottom of Foam	multi	Fiberglass 15 Cellulose 70 Non-Fibrous 15	None Detected

Sampled: June 30, 2025 **Received:** July 10, 2025 **Analyzed:** July 15, 2025

Thursday 17 July 2025

Analyzed by: Valerie Jaouette **Batch:** 138520

Bryant Dana
CDW Consultants, Inc.
6 Huron Drive
Natick, MA 01760

Project Information

Amherst Pelham Middle School

Method: BULK PLM ANALYSIS, EPA/600/R-93/116

FieldID LabID	Material	Location	Color	Non-Asbestos %	Asbestos %
Roof Core 80C 1557011	Tar	Top of Deck	black	Non-Fibrous 100	None Detected
Roof Core 81A 1557012	Glue/Adhesive	Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 81B 1557013	Tar Paper	Top/Bottom of Foam	multi	Fiberglass 15 Cellulose 70 Non-Fibrous 15	None Detected
Roof Core 81C 1557014	Tar	Top of Deck	black	Non-Fibrous 100	None Detected
Roof Core 82A 1557015	Glue/Adhesive	Top Layer	yellow	Non-Fibrous 100	None Detected
Roof Core 82B 1557016	Tar Paper	Top/Bottom of Foam	multi	Fiberglass 15 Cellulose 70 Non-Fibrous 15	None Detected
Roof Core 83A 1557017	Glue/Adhesive	Top Layer	tan	Non-Fibrous 100	None Detected
Roof Core 83B 1557018	Tar Paper	Top/Bottom of Foam	gray	Fiberglass 10 Cellulose 60 Non-Fibrous 30	None Detected
Curb Cut 29A 1557019	Glue/Adhesive	Top Layer	yellow	Non-Fibrous 100	None Detected
14A 1557020	Dark Gray Caulking	Under Finishing Over Auditorium Entrance	gray	Non-Fibrous 100	None Detected
14B 1557021	Dark Gray Caulking	Under Finishing Over Auditorium Entrance	gray	Non-Fibrous 100	None Detected
14C 1557022	Dark Gray Caulking	Under Finishing Over Auditorium Entrance	gray	Non-Fibrous 100	None Detected
15A 1557023	Dark Gray Sealant	Roof	gray	Non-Fibrous 100	None Detected
15B 1557024	Dark Gray Sealant	Roof	gray	Non-Fibrous 100	None Detected
16A 1557025	Tar	(Auditorium) on Hatch	black	Non-Fibrous 100	None Detected
16B 1557026	Tar	(Auditorium) on Hatch	black	Non-Fibrous 100	None Detected

Sampled: June 30, 2025 **Received:** July 10, 2025 **Analyzed:** July 15, 2025

Thursday 17 July 2025

Analyzed by: Valerie Jaouette **Batch:** 138520

Bryant Dana
CDW Consultants, Inc.
6 Huron Drive
Natick, MA 01760

Project Information

Amherst Pelham Middle School

Method: BULK PLM ANALYSIS, EPA/600/R-93/116

FieldID / LabID	Material	Location	Color	Non-Asbestos %	Asbestos %
17A / 1557027	Dark Gray Caulk	on Flashing (Main Roof Chimney)	gray	Non-Fibrous 100	None Detected
17B / 1557028	Dark Gray Caulk	on Flashing (Main Roof Chimney)	gray	Non-Fibrous 100	None Detected
18A / 1557029	Dark Gray Caulk	on Flashing (Main Roof Above Library)	gray	Non-Fibrous 100	None Detected
18B / 1557030	Dark Gray Caulk	on Flashing (Main Roof Above Library)	gray	Non-Fibrous 100	None Detected
19A / 1557031	Gray Caulk	on Flashing--Sides (Main Roof Above Library)	gray	Non-Fibrous 100	None Detected
19B / 1557032	Gray Caulk	on Flashing--Sides (Main Roof Above Library)	gray	Non-Fibrous 100	None Detected
20A / 1557033	Dark Gray Caulk	Under Flashing (Main Roof Above Library)	gray	Non-Fibrous 100	None Detected
20B / 1557034	Dark Gray Caulk	Under Flashing (Main Roof Above Library)	gray	Non-Fibrous 100	None Detected
21A / 1557035	Gray Caulk	on Brick Wall on Flashing (Main Roof Above Library)	gray	Non-Fibrous 100	None Detected
21B / 1557036	Gray Caulk	on Brick Wall on Flashing (Main Roof Above Library)	gray	Non-Fibrous 100	None Detected
22A / 1557037	Tar	on HVAC Unit	black	Non-Fibrous 95	**Detected** Chrysotile 5
22B / 1557038	Tar	on HVAC Unit			Not Analyzed
23A / 1557039	Gray Caulk	on Bolts on HVAC Units	gray	Non-Fibrous 100	None Detected
23B / 1557040	Gray Caulk	on Bolts on HVAC Units	gray	Non-Fibrous 100	None Detected
24A / 1557041	Gray Caulk	on HVAC Units	gray	Non-Fibrous 100	None Detected
24B / 1557042	Gray Caulk	on HVAC Units	gray	Non-Fibrous 100	None Detected
25A / 1557043	Gray Caulk w/ Black Coating	HVAC Unit (One)	gray	Non-Fibrous 100	None Detected

Sampled: June 30, 2025 **Received:** July 10, 2025 **Analyzed:** July 15, 2025

Thursday 17 July 2025

Analyzed by: Valerie Jaworette **Batch:** 138520

Bryant Dana
CDW Consultants, Inc.
6 Huron Drive
Natick, MA 01760

Project Information

Amherst Pelham Middle School

Method: BULK PLM ANALYSIS, EPA/600/R-93/116

FieldID / LabID	Material	Location	Color	Non-Asbestos %	Asbestos %
25B / 1557044	Gray Caulk w/ Black Coating	HVAC Unit (One)	gray	Non-Fibrous 100	None Detected
26A / 1557045	Gray Caulk	Communication Tower	gray	Non-Fibrous 100	None Detected
26B / 1557046	Gray Caulk	Communication Tower	gray	Non-Fibrous 100	None Detected
27A / 1557047	Dark Gray Caulk	on Mitsubishi Electric Unit Conduit	gray	Non-Fibrous 100	None Detected
27B / 1557048	Dark Gray Caulk	on Mitsubishi Electric Unit Conduit	gray	Non-Fibrous 100	None Detected
28A / 1557049	Black Window Glaze	School Entrance Roof	black	Non-Fibrous 100	None Detected
28B / 1557050	Black Window Glaze	School Entrance Roof	black	Non-Fibrous 100	None Detected
29A / 1557051	Dark Window Caulk	School Entrance Roof	gray	Non-Fibrous 100	None Detected
29B / 1557052	Dark Window Caulk	School Entrance Roof	gray	Non-Fibrous 100	None Detected
30A / 1557053	Black Caulk	on Flashing (Between Window Units)	black	Non-Fibrous 100	None Detected
30B / 1557054	Black Caulk	on Flashing (Between Window Units)	black	Non-Fibrous 100	None Detected
31A / 1557055	White Caulk	Under Flashing	gray	Non-Fibrous 95	**Detected** Chrysotile **5**
31B / 1557056	White Caulk	Under Flashing			Not Analyzed
32A / 1557057	Dark Gray Caulk	on Flashing/Bolts	gray	Non-Fibrous 100	None Detected
32B / 1557058	Dark Gray Caulk	on Flashing/Bolts	gray	Non-Fibrous 100	None Detected
33A / 1557059	Black Caulk	on Brick (Conduit)	black	Non-Fibrous 100	None Detected
33B / 1557060	Black Caulk	on Brick (Conduit)	black	Non-Fibrous 100	None Detected

Sampled: June 30, 2025 **Received:** July 10, 2025 **Analyzed:** July 15, 2025

Thursday 17 July 2025

Analyzed by: Valerie Jaouette **Batch:** 138520

Bryant Dana
CDW Consultants, Inc.
6 Huron Drive
Natick, MA 01760

Project Information

Amherst Pelham Middle School

Method: BULK PLM ANALYSIS, EPA/600/R-93/116

FieldID LabID	Material	Location	Color	Non-Asbestos %	Asbestos %
34A 1557061	Gray Caulk	on Flashing	gray	Non-Fibrous 100	None Detected
34B 1557062	Gray Caulk	on Flashing	gray	Non-Fibrous 100	None Detected
Curb Cut 6A 1557063	Glue/Adhesive	Top Layer	tan	Non-Fibrous 100	None Detected
Curb Cut 6B 1557064	Insulation	Between Rubber and Wall	tan	Synthetic 90 Non-Fibrous 10	None Detected
Curb Cut 6C 1557065	Tar	on Wall	black	Non-Fibrous 95	**Detected** **Chrysotile 5**
Curb Cut 28A 1557066	-	-	multi	Non-Fibrous 100	None Detected
Roof Core 39A 1557067	-	-	multi	Non-Fibrous 100	None Detected
Roof Core 39B 1557068	-	-	multi	Fiberglass 10 Cellulose 60 Non-Fibrous 30	None Detected
Roof Core 39C 1557069	-	-	multi	Fiberglass 10 Cellulose 60 Non-Fibrous 30	None Detected
Roof Core 41A 1557070	-	-	gray	Fiberglass 10 Cellulose 60 Non-Fibrous 30	None Detected
41B 1557071	-	-	black	Fiberglass 10 Cellulose 60 Non-Fibrous 30	None Detected
Roof Core 41C 1557072	-	-	black	Cellulose 10 Non-Fibrous 90	None Detected
Roof Core 42A 1557073	-	-	multi	Cellulose 30 Non-Fibrous 70	None Detected
Roof Core 42B 1557074	-	-	multi	Fiberglass 10 Cellulose 60 Non-Fibrous 30	None Detected
Roof Core 42C 1557075	-	-	multi	Fiberglass 10 Cellulose 60 Non-Fibrous 30	None Detected

Sampled: June 30, 2025 **Received:** July 10, 2025 **Analyzed:** July 15, 2025

Thursday 17 July 2025

Analyzed by: Valerie Jaouette **Batch:** 138520

CHAIN OF CUSTODY

EPA/600/R-93/116

Page 1 of ~~70~~ 72

Client: CHW Consultants Inc.

Address: 4 California Ave, Framingham, MA 01701

Project Site & #: Amherst Pelham Middle School

Phone / e-mail address:

bdana@chwconsultants.com

Contact: Bryant Dana

Relinquish by/date: 7/10/25

Receive by/date:

# of Samples Received: ~~347~~ 357

Asbestos Identification Lab

165 New Boston St.
Suite 227
Woburn, MA 01801
(781)932-9600
www.asbestosidentificationlab.com

Date Sampled: 6/30/25, 7/1/25, 7/2/25

BATCH# 136520 Rev 0 7/15

Turnaround Time: Less 3 Hrs; Same Day; Next Day; [X] Two Day

Sample Method: [X] Bulk; Soil; Wipe; Point Count

Stop on 1st Positive? Yes / No

Notify Method: Mail / E-Mail / Verbal

Analyzed By: Valerie Daouette

Date: 7/15/25 QC by: BC 7/21-12

DC 7/18 MM

Temp in Celsius = 22

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereo Scope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Dispersion Staining	Pleochroism	RI: II	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
20136479	1A	Material Dark Gray Caulk on Flashing Location Roof over Swimming Pool / Gyms	0	Gy	N	GN	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
20	1B	Material Location	0	Gy	N	GN	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
21	2A	Material Gray Caulk (Expansion Joint) Location Roof over Swimming Pool / Gyms	0	Gy	N	GN	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100

Temp in Celcius = _____

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereomicroscope: % of Asbestos	Color	Friability	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ∥	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
22	2B	Material Location	0	Gy	N	GN	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
23	3A	Material Gray Caulk on Louver Location Roof over Swimming Pool/Gyms	0	Gy	N	GN	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
24	3B	Material Location	0	Gy	N	GN	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
25	4A	Material Dark Gray Caulk on Flashing of Chimney Location Roof over Swimming Pool/Gyms	0	Br	N	GN	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
26	4B	Material Location	0	Br	N	GN	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100

Temp in Celcius = ____

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereomicroscope: % of Asbestos	Color	Friability	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ∥	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
27	5A	Material Excess Tar on Brick wall Location Roof over Swimming Pool/Gyms	0	BK	N	GN	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
28	5B	Material - - Location - -	0	BK	N	GN	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
29	6A	Material White Caulk on sides (Ends) of Flashing Location Roof over Swimming Pool/Gyms	0	W	N	GN	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
30	6B	Material - - Location - -	0	W	N	GN	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
31	7A	Material White Sealant on Hvac Vent Head Location Roof over Swimming Pool/Gyms	0	W	N	GN	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100

Temp in Celcius = ____

Lab Ins# (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereomicroscope: % of Asbestos	Color	Birefringency	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ∥	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
32	7B	Material Location	0	W	N	GN	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															100
33	8A	Material Dark Gray Caulk on HVAC Vent Hood Location Roof over Seminary Room/Gym	0	Gy	N	GN	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															100
34	8B	Material Location	0	Gy	N	GN	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															100
35	9A	Material Gray Sealant on Gutter Location Roof over Auditorium	0	Gy	N	GN	N	Chrysotile	2	W	P	+	L	N	1.552	1.546							
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															98
36	9B	Material Location						Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															

2 2 A

Temp in Celcius = ____

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereomicroscope: % of Asbestos	Color	Friability	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ∥	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
37	10A	Material Gray Caulking on Flashing Location Roof over Auditorium	0	Gy	N	GN	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
38	10B	Material ~ ~ Location ~ ~	0	Gy	N	GN	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
39	10C	Material ~ ~ Location ~ ~	0	Gy	N	GN	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
40	11A	Material Dark Gray Caulk under Gray Caulk on Flashing (in some locations) Location Roof over Auditorium	0	M	N	GN	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
41	11B	Material ~ ~ Location ~ ~	0	M	N	GN	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100

Lab Int # (Lab Use Only)	Field ID/ (Client Reference)	Temp in Celcius = ____ / Material / Location	Stereomicroscope: % of Asbestos	Color	Luminescence	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ∥	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
42	12A	Material White Caulk on Flashing Location Roof over Auditorium	0	W	N	SN	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															100
43	12B	Material Location	0	W	N	SN	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															100
44	13A	Material Gray Expansion Joint Location Roof over Auditorium	0	Gy	N	SN	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															100
45	13B	Material Location	0	Gy	N	SN	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															100
46	Roof Cor 1A	Material Glue / Adhesive on Rubber Membrane Location (Pool/Gyms) Top layer	0	y	N	SN	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															100

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Temp in Celcius = ____ / Material / Location	Stereomicroscope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ∥	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
47	Roof Core 1B	Material ~~Glue/Adhesive on Rubber~~ Tar Paper Location (Pool / Gyms) Top / Bottom of Foam	0	BK	N	GN / F	N	Chrysotile									D/S		R/JE				
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite									20		35				45
48	Roof Core 1C	Material Tar Location (Pool / Gyms) Top of Metal Deck	0	BK	N	GN	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															100
49	Roof Core 2A	Material Glue / Adhesive on Rubber Location (Pool / Gyms) Top layer	0	Y	N	GN	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															100
50	Roof Core 2B	Material Tar Paper Location (Pool / Gyms) Top / Bottom of Foam	0	BK	N	GN / F	N	Chrysotile															
								Amosite									D/S		R/JE				
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite									20		35				45
51	Roof Core 3A	Material Glue / Adhesive on Rubber Location (Pool / Gyms) Top layer	0	Y	N	GN	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															100

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Temp in Celcius: ____ Material / Location	Stereomicroscope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ∥	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
S2	Roof Core 3B	Material: Tar Paper Location (Pool/Gyms): Top/Bottom of Foam	0	BK	N	GN/F	N	Chrysotile									4/S		R/WE				
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite									20		35				45
S3	Roof Core 3C	Material: Tar Location (Pool/Gyms): Top of Metal Deck	0	BK	N	GN	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															100
S4	Roof Core 4A	Material: Glue/Adhesive on Rubber Location (Pool/Gyms): Top Layer	0	Y	N	GN	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															100
S5	Roof Core 4B	Material: Tar Paper Location (Pool/Gyms): Top/Bottom of Foam	0	BK	N	GN/F	N	Chrysotile									4/S		R/WE				
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite									20		35				45
S6	Roof Core 4C	Material: Tar Location (Pool/Gyms): Top of Metal Deck	0	BK	N	GN	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															100

Lab Ref# (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Temp in Celcius = ____ Stereomicroscope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ∥	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
57	Roof Core 5A	Material Glue/Adhesive on Rubber Location (Core Layers) Top layer	0	Y	N	GN	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
58	Roof Core 5B	Material Tar Paper Location (Core Layers) Top/Bottom of Foam	0	BK	N	GN/F	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite									10/5 20		R/UE 35				45
59	Roof Core 5C	Material Tar / Fiber board Location (Core Layers) Top of Metal Deck	0	BK	N	GN	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
60	Roof Core 6A	Material Glue/Adhesive on Rubber Location (Core Layers) Top layer	0	Y	N	GN	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
61	Roof Core 6B	Material Tar Paper Location (Core Layers) Top/Bottom of Foam	0	BK	N	GN/F	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite									10/5 20		R/UE 35				45

Temp in Celcius = _____

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereomicroscope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: II	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
62	Roof Core 6C	Material: Tar / Fiberboard Location (Pool/Gyms): Top of Metal Deck	0	BK	N	GN	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
63	Roof Core 7A	Material: Glue/Adhesive on Rubber Location (Pool/Gyms): Top Layer	0	Y	N	GN	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
64	Roof Core 7B	Material: Tar Paper Location (Pool/Gyms): Top/Bottom of Foam	0	BK	N	GN / F	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite										5		R/VE				45
65	Roof Core 7C	Material: Tar / Fiberboard Location (Pool/Gyms): Top of Metal Deck	0	BK	N	GN	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite										20		35				100
66	Roof Core 8A	Material: Glue/Adhesive on Rubber Location (Pool/Gyms): Top Layer	0	Y	N	GN	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100

Lab Int# (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Temp in Celcius =	Stereomicroscope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ∥	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
67	Roof Core 8B	Material Tar Paper Location (Pool/Gym) TOP/Bottom of Foam		0	BK	N	GN/F	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite									L/S		R/CE				
																		20		35				45
68	Roof Core 8C	Material Tar Location (Pool/Gym) Top of Metal Deck		0	BK	N	GN	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite																100
69	Curb Cut 1A	Material Glue/Adhesive on Rubber Location (Pool/Gym) Top layer		0	Y	N	GN	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite																100
70	Roof Core 9A	Material Glue/Adhesive on Rubber Location (Pool/Gym) Top layer		0	Y	N	GN	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite																100
71	Roof Core 9B	Material Tar Paper Location (Pool/Gym) Top/Bottom of Foam		0	BK	N	GN/F	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite									L/S		R/CE				
																		20		35				45

Temp in Celcius = _____

Lab Ind (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereomicroscope: % of Asbestos	Color	Luminescence	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ∥	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
72	Roof Core 10A	Material Glue / Adhesive on Rubber Location (Pool/Layers) Top Layer	0	Y	N	GN	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
73	Roof Core 10B	Material Tar paper Location (Pool/Layers) Top / Bottom of Foam	0	BK	N	GN/F	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite									W/S 20		R/WE 35				45
74	Roof Core 10C	Material Tar Location (Pool/Layers) Tar of Metal Deck	0	BK	N	GN	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
75	Roof Core 11A	Material Glue / Adhesive on Rubber Location (Pool/Layers) Top Layer	0	Y	N	GN	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
76	Roof Core 11B	Material Tar paper Location (Pool/Layers) Top / Bottom of Foam	0	BK	N	GN/F	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite									W/S 20		R/WE 35				45

Temp in Celcius = _____

Lab Ins (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereomicroscope: % of Asbestos	Color	Transparency	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: =	⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
77	Curb Cut 2A	Material Glue/Adhesion on Rubber Location (Roof/Gyms) (Chimney) Top layer	0	T	Y	G	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
78	Roof Cut 12A	Material Glue/Adhesion on Rubber Location (Auditorium) Top layer	0	T	Y	G	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
79	Roof Cut 12B	Material Tar Paper Location (Auditorium) Top / Bottom of Foam	0	Br	N	G	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite										S I		P I F				20
80	Roof Cut 13A	Material Glue/Adhesion on Rubber Location (Auditorium) Top layer	0	T	Y	G	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
81	Roof Cut 13B	Material Tar Paper Location (Auditorium) Top / Bottom of Foam	0	Br	N	G	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite										S I		P I F				20

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Lab Int# (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Temp in Celcius =	Stereomicroscope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: II	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
82	Roof Core 14A	Material Glue / Adhesive on Rubber Location (Additional) Top layer		0	T	Y	G	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite																10
83	Roof Core 14B	Material Tar paper Location (Additional) Top / Bottom of Foam		0	Br	N	G	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite									5 TR 20		C TR 60				20
84	Roof Core 15A	Material Glue / Adhesive on Rubber Location (Additional) Top layer		0	T	Y	G	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite																10
85	Roof Core 15B	Material Tar paper Location (Additional) Top / Bottom of Foam		0	Br	N	G	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite									5 TR 20		C TR 60				20
86	Roof Core 16A	Material Glue / Adhesive on Rubber Location (Additional) Top layer		0	T	Y	G	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite																10

Temp in Celcius: ____

Lab Int (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereomicroscope: % of Asbestos	Color	Friability	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: II	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
87	Roof Core 16B	Material: Tar paper Location (Auditorium): Top/Bottom of Foam	0	Gy	N	G	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite									S I 20		R FE 60				20
88	Roof Core 16C	Material: Tar on Concrete Deck Location (Auditorium): Top of Concrete Deck	0	Bk	N	G	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
89	Roof Core 17A	Material: Glue/Adhesive on Rubber Location (Auditorium): Top layer	0	T	Y	G	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
90	Roof Core 17B	Material: Tar paper Location (Auditorium): Top/Bottom of Foam	0	Gy	N	G	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite									S I 20		R FE 60				20
91	Roof Core 18A	Material: Glue/Adhesive on Rubber Location (Auditorium): Top layer						Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															

no Sample

Lab Ens (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Temp in Celcius = ____	Stereomicroscope: % of Asbestos	Color	Luminosity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: =	⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
92	Roof Core 18B	Material: Tar paper Location (Additional): Top/Bottom of Foam		0	Fr	N	G	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite									5% F 20		P FE 60				20
93	Roof Core 18C	Material: Tar on Concrete Deck Location (Additional): Top of Concrete Deck		0	Blk	N	G	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															NW
94	Curb Cut 3A	Material: Glue / Adhesive Location (Additional): Top Layer		0	T	Y	G	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															NW
95	Curb Cut 3B	Material: Tar (Vapor Barrier) Location (Additional): On Wall		G	Blk	N	G	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															NW
96	Curb Cut 4A	Material: Glue / Adhesive Location (Additional): Top Layer		0	T	Y	G	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															NW

Temp in Celcius = _____

Lab Ind (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereomicroscope: % of Asbestos	Color	Friability	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: =	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
97	Curb Cut 4B	Material: Insulation Location (Additional): Top layer	0	W	N	G	Y	Chrysotile													B MH		
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite													80		20
98	Curb Cut 4C	Material: Tar (Vapor Barrier) Location (Additional): On wall	0	Blk	N	G	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															NA
99	Roof Cav 19A	Material: Glue / Adhesive Location (Additional): Top layer						Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															
800	Roof Cav 19B	Material: Insulation Location (Additional): Between Rubber and Wall	0	Gry	N	G	N	Chrysotile									5		R				
								Amosite									F		FE				
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite									20		60				20
01	Roof Cav 19C	Material: Tar Location (Additional): On wall	0	Blk	N	G	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															NA

no sample

Temp in Celcius = _____

Lab Int (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereomicroscope: % of Asbestos	Color	Luminosity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ∥	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
02	Roof Core 20A	Material: Glue / Adhesive Location (Auditorium): Top layer	0	T	Y	G	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
03	Roof Core 20B	Material: Tar Paper Location (Auditorium): Top / Bottom of Foam	0	G/Y	N	G	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite										S/F 20		R/FE 80				20
04	Roof Core 20C	Material: Tar / Fiberboard Location (Auditorium): Top of Metal Deck	0	M	N	G	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite												R/FE 70				30
05	Roof Core 21A	Material: Glue / Adhesive Location (Auditorium): Top layer	0	T	Y	G	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
06	Roof Core 21B	Material: Tar Paper Location (Auditorium): Top / Bottom of Foam	0	G/Y	N	G	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite										S/F 20		R/FE 60				20

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Lab Ind (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Temp in Celcius = ____	Stereomicroscope					Asbestos Minerals	Optical Properties						RI		Non-Asbestos Percentage (%)						
			% of Asbestos	Color	Homogeneity	Texture	Friable		Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	II	⊥	Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
67	Roof Core 21C	Material Tar / Fiberboard Location (Additional) Top of Metal Deck	C	M	N	G	N	Chrysotile											R / FE					
								Amosite																
								Crocidolite																
								Tremolite																
								Anthophyllite											70				30
								Actinolite																
68	Curb Cut 5A	Material Glue / Adhesive Location (Additional) Top Layer	C	T	Y	G	N	Chrysotile																
								Amosite																
								Crocidolite																
								Tremolite																
								Anthophyllite																
								Actinolite																10
69	Curb Cut 5B	Material Insulation Location (Additional) Between Rubber and Wall	C	W	N	G	Y	Chrysotile													FB / MH			
								Amosite																
								Crocidolite																
								Tremolite																
								Anthophyllite																
								Actinolite													80			20
10	Curb Cut 5C	Material Tar Location (Additional) On wall	C	BK	N	L	N	Chrysotile																
								Amosite																
								Crocidolite																
								Tremolite																
								Anthophyllite																
								Actinolite																10
11	Roof Core 22A	Material Glue/Adhesive Location (Additional) Top Layer	C	T	Y	G	N	Chrysotile																
								Amosite																
								Crocidolite																
								Tremolite																
								Anthophyllite																
								Actinolite																10

Lab Int # (Lab Use Only)	Field ID/ (Client Reference)	Temp in Celcius = ____ Material / Location	Stereomicroscope: % of Asbestos	Color	Friability	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ∥	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
12	Roof Core 22B	Material Tar paper Location (Add. form) Top / Bottom of Foam	0	Gy	N	G	N	Chrysotile									5 F		R NE F				
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite									20		60				20
13	Roof Core 22C	Material Tar Location (Add. form) Top of Deck	0	Bk	N	G	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															10
14	Roof Core 23A	Material Glue / Adhesive Location (Add. form) Top layer	0	T	Y	G	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															10
15	Roof Core 23B	Material Tar paper Location (Add. form) Top / Bottom of Foam	0	Gy	N	G	N	Chrysotile									5 F		R NE				
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite									20		60				20
16	Roof Core 24A	Material Glue / Adhesive Location (Add. form) Top layer	0	T	Y	G	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															10

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Lab Ref (Lab Use Only)	Field ID/ (Client Reference)	Temp in Celcius = ____ / Material / Location	Stereomicroscope: % of Asbestos	Color	Fibrousness	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ∥	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
17	Roof Core 24B	Material: Tar paper Location (Additional): Top / Bottom of Foam	0	Gy	N	G	N	Chrysotile									5 / I		P / FE				
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite									20		60				20
18	Roof Core 24C	Material: Tar / Fiberboard Location (Additional): TOP of Deck	0	M	N	G	N	Chrysotile															
								Amosite											P / FE				
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite											70				30
19	Curb Cut 7A	Material: Glue / Adhesive Location (Additional): Top layer	0	T	Y	G	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															100
20	Curb Cut 7B	Material: Insulation Location (Additional): Between Rubber and wall	0	W	N	G	Y	Chrysotile													FS / MF		
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite													80		20
								Actinolite															
21	Roof Core 25A	Material: Glue / Adhesive Location (Additional): Top layer	0	T	Y	G	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															100

Temp in Celcius: ____

Lab Id (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereomicroscope: % of Asbestos	Color	Friability	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: II	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
22	Roof core 25B	Material: ~~Glue~~ Tar Paper Location (Auditorium) Top/Bottom of foam	0	Gr	N	G	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite									5 7		R FE				20
23	Roof core 25C	Material: Tar / fiberboard Location (Auditorium) Top of deck	0	M	N	G	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite											R FE 70				30
24	Roof core 26A	Material: Glue / Adhesive Location Top layer (Auditorium)	0	T	Y	G	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
25	Roof core 26B	Material: Tar paper Location Top/Bottom of foam (Auditorium)	0	Gr	N	G	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite									5 I		R FE 60				20
26	Roof core 26C	Material: Tar / fiberboard Location Top of deck (Auditorium)	0	M	N	G	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite											R FE 70				30

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereomicroscope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: =	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
27	Curb Cut 8A	Material: Glue Location (Auditorium): Top Layer	0	T	Y	G	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite																100
28	Curb Cut 8B	Material: Insulation Location (Auditorium): Between Rubber and wall	0	W	N	G	Y	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite													PS mH		80	~~100~~ 20
29	Curb Cut 8C	Material: Tar Location (Auditorium): ~~Floor~~ On Wall	0	Bk	N	G	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite																100
30	Roof Cone 27A	Material: Glue Location (Auditorium): Top Layer	0	T	Y	G	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite																100
31	Roof Cone 27B	Material: Tar Par Location (Auditorium): Top/Bottom of foam	0	Gy	N	G	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite									E I		R FE				20	20

JC 7/15/25

Temp in Celcius = _____

Lab Ind (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereomicroscope: % of Asbestos	Color	Friability	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ∥	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
32	Roof Core 27C	Material: Tar / fiberboard Location (Auditorium): Top of Deck	0	m	n	L	n	Chrysotile											R / FE				30
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite											70				
								Actinolite															
33	Roof Core 28A	Material: Glue Location (Auditorium): Top Layer	0	T	Y	G	n	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															lw
34	Roof Core 28B	Material: Tar Paper Location (Auditorium): Top / Bottom of foam	0	Gy	n	L	n	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite											20		60		20
35	Roof Core 28C	Material: Tar / fiberboard Location (Auditorium): Top Deck	0	m	n	L	n	Chrysotile	TR	w	P	+	C	n	low	(1551)							
								Amosite											R / FE				
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite											70				30
36	Roof Core 29A	Material: Glue Location (Auditorium): Top Layer	0	T	Y	G	n	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															lw

Temp in Celcius: ____

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereomicroscope: % of Asbestos	Color	Friability	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: =	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
27	Roof Core 29B	Material: Tar Paper Location (Auditorium): Top / Bottom of foam	0	Gy	N	G	N	Chrysotile									5 I		R FE				
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite									20		60				20
28	Roof Core 27C	Material: Tar Location (Auditorium): Top of Deck — Concrete Deck	0	Bk	N	G	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															100
29	Roof Core 30A	Material: Glue Location (Auditorium): Top layer	0	YW	N	SW	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															100
4R	Roof Core 30B	Material: Tar Paper Location (Auditorium): Top / Bottom of foam	0	GY	Y	F	N	Chrysotile									5 1		R IE				
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite									20		75				5
41	Roof Core 30C	Material: Tar / Fiberboard Location (Auditorium): Top of Deck	0	M	N	SR/E	Y	Chrysotile											R IE				
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite											80				20

QC by: DLT 25-37

Lab Int# (Lab Use Only)	Field ID/ (Client Reference)	Temp in Celcius = ____ Material / Location	Stereomicroscope: % of Asbestos	Color	Inhomogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ∥	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
42	Roof Core 31A	Material: Glue Location (Auditorium): Top Layer	0	YW	2	C3	2	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
43	Roof Core 31B	Material: Tar Paper Location (Auditorium): Top/Bottom of foam	0	Gy	4	F	2	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite										5 1		C 1E				5
44	Roof Core 31C	Material: Tar/fiberboard Location (Auditorium): Top of Deck	0	M	2	C3/F	2	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite												C 1E 80				20
45	Curb Cut 9A	Material: Glue Location (Auditorium): Top Layer	0	YW	4	C3	2	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
46	Curb Cut 9B	Material: Insulation Location (Auditorium): Between Rubber cov wall	0	W	4	F	2	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite													FS 1 MH 90		10

Lab Smpl (Lab Use Only)	Field ID/ (Client Reference)	Temp in Celcius = ____ / Material / Location	Stereomicroscope: % of Asbestos	Color	Friability	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: =	⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
47	Curb Cut 9C	Material: Tar Location (Auditorium) on wall	0	BK	Y	CW	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
48	Curb Cut 10A	Material: Glue Location (Auditorium) Top Layer	0	YW	N	CW	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
49	Curb Cut 10B	Material: Insulation Location (Auditorium) Between Rubber and wall	0	W	Y	F	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite													FS MH 90		10
50	Curb Cut 10C	Material: Tar Location (Auditorium) on wall	0	BK	Y	CW	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
51	Roof Cut 32A	Material: Glue Location (Auditorium) Top Layer	0	YW	N	CW	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100

Lab #s (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereomicroscope: % of Asbestos	Color	Friability	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ∥	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
31	Roof Cut 32B	Material: Tar Paper Location (Auditorium): Top / Bottom of foam	Ø	Gy	4	F	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite									S - 5		R / IE 20				S
33	Roof Cut 32C	Material: Tar / fiberboard Location (Auditorium): Top of Deck	Ø	M	N	C/F	Y	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite											R / IE 80				20
34	Roof Core 33A	Material: Glue Location (Auditorium): Top Layer						Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															
35	Roof Core 33B	Material: Tar Paper Location (Auditorium): Top / Bottom of foam	Ø	Gy	4	F	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite									S - 1 20		R / IE 75				S
36	Roof Core 33C	Material: Tar / fiberboard Location (Auditorium): Top of deck	Ø	M	N	C/F	Y	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite											R / IE 80				20

No Glue Present

Lab Int# (Lab Use Only)	Field ID/ (Client Reference)	Temp in Celcius = ____ Material / Location	Stereomicroscope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Dispersion	RI: ∥	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
57	Curb Cut	Material: Glue						Chrysotile															
		Location (Auditorium): Top Layer						Amosite															
	11A							Crocidolite															
								Tremolite															
			∅	YW	N	CW	N	Anthophyllite															100
								Actinolite															
58	Curb Cut	Material: Insulation						Chrysotile													FS		
		Location (Auditorium): Between Rubber and wall						Amosite															
	11B							Crocidolite													MH		
								Tremolite															
			∅	W	Y	F	N	Anthophyllite													90		10
								Actinolite															
59	Curb Cut	Material: Tar						Chrysotile	20	W	P	+	L	N	1.557	1.55							
		Location (Auditorium): On Wall						Amosite															
	11C							Crocidolite															
								Tremolite															
			∅	Bk	Y	CW	N	Anthophyllite															80
								Actinolite															
60	Roof Core	Material: Glue						Chrysotile															
		Location (Auditorium): Top layer						Amosite															
	34A							Crocidolite															
								Tremolite															
			∅	YW	N	CW	N	Anthophyllite															100
								Actinolite															
61	Roof Core	Material: Tar Paper						Chrysotile															
		Location: Top/Bottom of foam (Auditorium)						Amosite															
	34B							Crocidolite															
								Tremolite															
			∅	Cay	Y	F	N	Anthophyllite									S/I		R/E				5
								Actinolite									20		75				

Temp in Celcius = _____

Lab Ind (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereomicroscope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: II	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
02	Roof Core 34C	Material: Tar / Fiberboard Location (Auditorium): Top of Deck	Ø	M	N	CW/F	Y	Chrysotile											E / FE				
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite											80				20
								Actinolite															
03	Curb Cut 12A	Material: Glue Location (Auditorium): Top Layer	Ø	YW	N	CW	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															100
								Actinolite															
04	Curb Cut 12B	Material: Insulation Location (Auditorium): Between Rubber on Wall	Ø	W	Y	F	N	Chrysotile													PS / MH		
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite													90		10
								Actinolite															
05	Curb Cut 12C	Material: Tar Location (Auditorium): On Wall	Ø	BK	Y	CW	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															100
								Actinolite															
06	Roof Core 35A	Material: Glue Location (Auditorium): Top Layer	Ø	YW	N	CW	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															100
								Actinolite															

Temp in Celcius = ____

Lab Id# (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereomicroscope: % of Asbestos	Color	Friability	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Dispersion	RI: =	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
67	Roof Core	Material: Tar Paper						Chrysotile									S		R				
								Amosite									I		IE				
								Crocidolite															
								Tremolite															
	35B	Location: (Auditorium) Top/Bottom layer of foam	∅	CW	Y	F	2	Anthophyllite															
								Actinolite									20		75				5
68	Roof Core	Material: Tar/fiberboard						Chrysotile											R				
								Amosite											I				
								Crocidolite											IE				
								Tremolite															
	35C	Location: (Auditorium) Top of Deck	∅	N	N	3/P	Y	Anthophyllite															
								Actinolite											80				20
69	Roof Core	Material: Glue						Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
	36A	Location: (Auditorium) Top layer	∅	YW	N	CW	N	Anthophyllite															
								Actinolite															100
70	Roof Core	Material: Tar Paper						Chrysotile															
								Amosite									S		R				
								Crocidolite									I		IE				
								Tremolite															
	36B	Location: Top/Bottom of foam (Auditorium)	∅	CW	Y	F	2	Anthophyllite															
								Actinolite									20		75				5
71	Roof Core	Material: Tar						Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
	36C	Location: Top of deck - Concrete (Auditorium)	∅	BK	N	CW	N	Anthophyllite															
								Actinolite															100

Lab Int# (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Temp in Celcius: ____	Stereomicroscope: % of Asbestos	Color	Friability	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: =	⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
72	Roof Core 37A	Material: Glue Location (Auditorium): Top Layer		0	YW	N	CW	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite																100
73	Roof Core 37B	Material: Tar Paper Location (Auditorium): Top/Bottom of Foam		0	GY	Y	F	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite										5 1 20		C 1 E 75				5
74	Roof Core 37C	Material: Tar Location (Auditorium): Top of Deck (Concrete)		0	M	N	CW	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite																100
75	Curb Cut 13A	Material: Glue Location (Auditorium): Top layer		0	YW	N	CW	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite																100
76	Curb Cut 13B	Material: Insulation Location (Auditorium): Between Rubber and Wall		0	W	N	F	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite														18 MH 80		20

Temp in Celcius = ____

Lab Smpl # (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereomicroscope: % of Asbestos	Color	Luminosity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: II	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
77	Curb Cut 13C	Material: Tar Location (Auditorium): On Wall	Ø	Bk	N	CW	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															100
78	Curb Cut 14A	Material: Glue Location: Top Layer	Ø	WH	N	CW	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															100
79	Curb Cut 14B	Material: Insulation Location (Auditorium): Between Rubber & Wall	Ø	W	N	F	N	Chrysotile													FS		
								Amosite													MH		
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite													80		20
80	Curb Cut 14C	Material: Tar Location (Auditorium): On Wall	Ø	Bk	N	CW	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															100
81	Roof Core 38A	Material: Glue Location (Auditorium): Top Layer	Ø	WH	N	CW	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															100

Temp in Celcius = ____

Lab Int# (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereomicroscope: % of Asbestos	Color	Friability	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ‖	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
82	Roof Core 38B	Material: Tar Paper Location: Top/Bottom of foam (Auditorium)	8	GY	Y	F	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite									S I 20		R FI 75				5
83	Roof Core 38C	Material: Brick Location: (Auditorium) Top of Deck	0	R	N	GN	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
84	Roof Core 38D	Material: Tar on Brick Location: (Auditorium) Top of Deck	0	BK	N	GN	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
85	Roof Core 38E	Material: Tar/fiberboard Location: (Auditorium) Top on metal Deck	0	Br	Y	F	Y	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite											R IE 90				10
86	Cork Coat 15A	Material: Glue Location: Top layer	0	YN	N	GN	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100

Temp in Celcius = _____

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereomicroscope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: II	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous	
87	Curb Cut 15B	Material: Insulation Location (Auditorium): Between Rubber and Wall	0	M	N	F/W	N	Chrysotile									1-15							
								Amosite																
								Crocidolite																
								Tremolite																
								Anthophyllite									15						85	
								Actinolite																
88	Curb Cut 15C	Material: Tar Location (Auditorium): On Wall						Chrysotile																No Sample
								Amosite																
								Crocidolite																
								Tremolite																
								Anthophyllite																
								Actinolite																
89	Roof Core 39A	Material: Glue Location (Auditorium): Top Layer	0	YW	N	CW	N	Chrysotile																
								Amosite																
								Crocidolite																
								Tremolite																
								Anthophyllite																
								Actinolite															100	
90	Roof Core 39B	Material: Tar Paper Location: Top/Bottom of foam (Auditorium)	0	GY	Y	F	N	Chrysotile																
								Amosite									5		2					
								Crocidolite									1		12					
								Tremolite																
								Anthophyllite									20		75				5	
								Actinolite																
91	Roof Core 40A	Material: Glue (on tar Paper) Location: Top layer	0	YW	N	CW	N	Chrysotile																
								Amosite																
								Crocidolite																
								Tremolite																
								Anthophyllite																
								Actinolite															100	

Temp in Celcius = ____

Lab Ind (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereomicroscope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ∥	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
92	Roof Core 40B	Material: Tar Paper Location: Top/Bottom of foam	0	Cm	Y	F	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite									5 1 20		R 1 E 75				5
93	Curb Cut 16A	Material: Location	0	YW	N	CW	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
94	Roof Core 43A	Material: Glue Location	0	YW	N	CW	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
95	Roof Core 43B	Material: Tar Paper Location	0	Cm	Y	F	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite									5 1 20		R 1 E 75				5
96	Curb Cut 17A	Material: Glue Location: Top layer	0	YW	N	CW	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100

Dana - CDH 138520

Temp in Celcius = ____

Lab Id# (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereomicroscope: % of Asbestos	Color	Transparency	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ∥	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
97	Curb Cut 17B	Material: Tar (on wood) Location: on wall	0	Blk	N	Sm	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															100
98	Roof Core 44A	Material: Glue Location: Top Layer	0	y	N	Sm	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															100
99	Roof Core 44B	Material: Tar Paper Location: Top/Bottom of foam	0	Blk	N	Sm	Y	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite											95				5
								Actinolite															
100	Roof Core 44C	Material: Tar Location: Top of Deck	0	Blk	N	Sm	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite											5				95
								Actinolite															
01	Curb Cut 18A	Material: Glue Location: Top Layer	0	y	N	Sm	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															100

Lab Smpl (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	% of Asbestos	Color	Friability	Texture	Asbestos Minerals	Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI =	RI ⊥	Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
02	Roof Core 45A	Material: Glue Location: Top Layer	0	y	~soft~		Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															NAD
03	Roof Core 45B	Material: Tar Paper Location: Top/Bottom of Foam	0	blk~	~hard~		Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite											2E 2 95				5
04	Curb Cut 19A	Material: Glue Location: Top Layer	0	y	~soft~		Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															NAD
05	Curb Cut 20A	Material: Glue Location: Top Layer	0	y	~soft~		Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															NAD
06	Curb Cut 21A	Material: Glue Location: Top Layer	0	y	~soft~		Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															NAD

Pages 38-48 QC'd by: VAS

Temp in Celcius = _____

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereomicroscope: % of Asbestos	Color	Friability	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: II	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
37	Roof Core 46A	Material: Glue Location: Top Layer	0	y ~ brn				Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															13
38	Roof Core 46B	Material: Tar Paper Location: Top/Bottom of foam	0	blk ~	FR			Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite											BE R 95				5
39	Roof Core 47A	Material: Glue/Adhesive Location: Top Layer	0	y ~ brn				Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															10
40	Roof Core 47B	Material: Tar Paper Location: Top/Bottom of foam	0	blk ~	R	y		Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite											BE R 95				5
41	Roof Core 47C	Material: Tar Location: Top of Deck (Metal Deck)	0	blk ~		brn ~		Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite											BE R 5				95

Temp in Celcius = ____

Lab Ind (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereomicroscope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: =	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
12	Roof core 48A	Material: Glue/Adhesive Location: Top Layer	0	y	n	gr	n	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															10
13	Roof core 48B	Material: Tar Paper Location: Top / Bottom of foam	0	blk	n	fry		Chrysotile															
								Amosite											3E				
								Crocidolite											2				
								Tremolite															
								Anthophyllite											95				
								Actinolite															5
14	Roof core 48C	Material: Tar Location: Top of Deck (Metal Deck)	0	blk	n	gr	n	Chrysotile	3	w	=	T	L	N	1.557	1.551							
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															97
15	Roof core 49A	Material: Glue/Adhesive Location: Top layer	0	y	n	gr/w		Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															10
16	49B	Material: Tar Paper Location: Top/Bottom layer of foam	0	blk	n	fry		Chrysotile															
								Amosite											3E				
								Crocidolite											2				
								Tremolite															
								Anthophyllite											95				
								Actinolite															5

Temp in Celcius = ____

Lab #nd (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereomicroscope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ‖	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
17	Roof Core 50A	Material: Glue/Adhesive Location: Top Layer	0	y	n	Br	n	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															13
18	Roof Core 50B	Material: Tar Paper Location: Top/Bottom Layer of foam	0	blk	n	Fr	y	Chrysotile											3E				
								Amosite											2				
								Crocidolite															
								Tremolite															
								Anthophyllite											05				5
								Actinolite															
19	Roof Core 50C	Material: Tar Paper / Tar Location: Top of Deck	2	blk	n	Br	n	Chrysotile	2	w	=	↓	c	n	1.555	1.535			3E				
								Amosite											2				
								Crocidolite															
								Tremolite															
								Anthophyllite											60				18
								Actinolite															
20	Roof Core 51A	Material: Glue/Adhesive Location: Top Layer	0	y	n	Br	n	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															13
21	Roof Core 51B	Material: Tar Paper Location: Top/Bottom Layer of foam	0	blk	n	Fr	y	Chrysotile															
								Amosite											3E				
								Crocidolite											2				
								Tremolite															
								Anthophyllite											05				5
								Actinolite															

Temp in Celcius = ____

Lab Smt (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereomicroscope: % of Asbestos	Color	Friability	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: =	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
22	Roof Core 51C	Material: Tar/Fiberboard Location: Top of Deck	0	wh	fr	fr	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite									5 2 20		25 FR 70				10
23	Roof Core 52A	Material: Glue/Adhesive Location: Top Layer	0	gy	fr	fr	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite																100
24	Roof Core 52B	Material: Tar Paper Location: Top/Bottom Layer of Foam	0	brn	fry	fry	Y	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite											25 FR 95				5
25	Roof Core 52C	Material: Tar/Fiberboard Location: Top of Deck	0	brn	fry	fry	Y	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite											25 FR 98				2
26	Roof Core 53A	Material: Glue/Adhesive Location: Top Layer	0	gy	fr	fr	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite																100

Temp in Celcius = ____

Lab Inst (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereomicroscope: % of Asbestos	Color	Friability	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ‖	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
27	Roof Core 53B	Material: Tar Paper Location: Top/Bottom of foam	C	blk	N	F	Y	Chrysotile															
								Amosite											25				
								Crocidolite											R				
								Tremolite															
								Anthophyllite											95				5
								Actinolite															
28	Roof Core 54A	Material: Glue/Adhesive Location: Top Layer	O	Y	N	Br	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															W
29	Roof core 54B	Material: Tar Paper Location: Top/Bottom layer of foam	C	blk	N	F	Y	Chrysotile															
								Amosite											25				
								Crocidolite											R				
								Tremolite															
								Anthophyllite											95				5
								Actinolite															
30	Roof Core 54C	Material: Tar/Fiberboard Location: Top of deck	C	wht	N	Br	N	Chrysotile															
								Amosite											25				
								Crocidolite											R				
								Tremolite															
								Anthophyllite											40				60
								Actinolite															
31	Curb Cut 22A	Material: Glue Location: Top Layer	O	Y	N	Br	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															W

Temp in Celcius = _____

Lab Id (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereomicroscope: % of Asbestos	Color	Friability	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: =	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
32	Roof Core	Material: Glue/Adhesive	0	gy	gr			Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
	55A	Location: Top Layer						Actinolite															10
33	Roof core	Material: Tar Paper	0	blk	RY			Chrysotile															
								Amosite											3E				
								Crocidolite											2				
								Tremolite															
								Anthophyllite											95				
	55B	Location: Top/Bottom Layer of Foam						Actinolite															5
34	Roof Core	Material: Tar/Fiberboard	0	wh	gy			Chrysotile															
								Amosite											8E				
								Crocidolite											2				
								Tremolite															
								Anthophyllite											70				
	55C	Location: Top of Deck						Actinolite															30
35	Curb Cut	Material: Glue	0	gy	gr			Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
	23A	Location: Top layer						Actinolite															10
36	Curb Cut	Material: Tar	0	blk	gr			Chrysotile															
								Amosite											8E				
								Crocidolite											2				
								Tremolite															
								Anthophyllite											70				
	23B	Location: on wall / Vapor Beam						Actinolite															30

Temp in Celcius = _____

Lab Int # (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereomicroscope: % of Asbestos	Color	Fluorescence	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: II	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
37	Roof Core 56A	Material: Glue/Adhesive Location: Top Layer	0	y	N	Sm	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															10
38	Roof Core 56B	Material: Tar Paper Location: Top/Bottom of Foam (Metal Deck)	0	blk	N	Rg		Chrysotile															
								Amosite											28				
								Crocidolite											R				
								Tremolite															
								Anthophyllite											95				5
								Actinolite															
39	Roof Core 57A	Material: Glue/Adhesive Location: Top Layer	0	y	N	Sm	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															10
40	Roof Core 57B	Material: Tar Paper Location: Top/Bottom of Foam (Metal Deck)	0	blk	N	Rg		Chrysotile															
								Amosite											28				
								Crocidolite											R				
								Tremolite															
								Anthophyllite											95				5
								Actinolite															
41	Curb cut 24A	Material: Glue/Adhesive Location: Top Layer (Rubber Membrane to Brick wall)	0	y	N	Sm	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															10

Temp in Celcius = _____

Lab #s (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereomicroscope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ∥	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
42	Curb Cut 25A	Material: Glue/Adhesive Location: Top Layer (Wood Wall)	0	y	n	gr	n	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
43	Roof Core 58A	Material: Glue/Adhesive Location: Top Layer	0	y	n	gr	n	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															3
44	Roof Core 58B	Material: Tar Paper Location: Top/Bottom Layer of Core	0	blk	n	fry		Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite											PE 95				5
45	Roof Core 58C	Material: Tar/Fiberboard Location: Top of Deck	0	vc	n	gr fr	n	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite											PE 60				40
46	Roof Core 59A	Material: Glue/Adhesive Location: Top Layer	0	y	n	gr	n	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100

Lab ID (Lab Use Only)	Field ID/ (Client Reference)	Material / Location (Temp in Celcius = ___)	% of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI ∥	RI ⊥	Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
47	Roof Core 59B	Material: Tarpaper Location: Top/Bottom Layer of foam	0	blk	~	R	y	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite											[illegible] 95				5
48	Roof Core 59C	Material: Tar/fiberboard Location: Top of Deck	0	mc	~	gr/	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite											[illegible] 30				70
49	Roof Core 60A	Material: Glue/Adhesive Location: Top Layer	0	y	N	gr	~	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
50	Roof Core 60B	Material: Tarpaper Location: Top/Bottom Layer of foam	0	blk	~	R	y	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite											[illegible] 95				5
51	Roof Core 60C	Material: Tar/fiberboard Location: Top of Deck	0	mc	~	gr/	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite											[illegible] 70				30

Temp in Celcius = _____

Lab #/# (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereomicroscope: % of Asbestos	Color	Fluorescence	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: II	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
S2	Roof Core 61A	Material: Glue Location: Top Layer	0	y	n	sm		Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite																100
S3	Roof Core 61B	Material: Tar Paper Location: Top/Bottom of foam Layer	0	blk	n	R	y	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite												28 R 95				5
S4	Roof Core 61C	Material: Tar Location: Top of Deck	0	blk	n	sm		Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite												TR R 5				95
S5	Roof Cut 26A	Material: Glue Location: on Chimney (Rubber to Wood)	0	y	n	sm		Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite																1W
S6	Roof Cut 62A	Material: Glue/Adhesive Location: Top Layer	0	y	n	sm		Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite																1W

Lab Int (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Temp in Celcius °	Stereomicroscope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ∥	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
57	Roof Core 62B	Material: Tar Paper Location: Top/Bottom of foam		O	BK	N	F	Y	Chrysotile											IE				
									Amosite											R				
									Crocidolite															
									Tremolite															
									Anthophyllite											95				5
									Actinolite															
58	Roof Core 63A	Material: Glue/Adhesive Location		O	Br	Y	G	N	Chrysotile															
									Amosite															
									Crocidolite															
									Tremolite															
									Anthophyllite															100
									Actinolite															
59	Roof Core 63B	Material Location		O	M	N	G	N	Chrysotile															
									Amosite											R				
									Crocidolite											EG				
									Tremolite															
									Anthophyllite															
									Actinolite											60				40
60	~~Roof~~ Curb Cut 27A	Material: Glue Location: Rubber to Brick		O	Y	Y	G	N	Chrysotile															
									Amosite															
									Crocidolite															
									Tremolite															
									Anthophyllite															
									Actinolite															100
61	Curb Cut 28A	Material: Glue Location: on Wood		O	Y	Y	G	N	Chrysotile															
									Amosite															
									Crocidolite															
									Tremolite															
									Anthophyllite															
									Actinolite															100

QC: JRC Pg 49-60

Temp in Celcius = ____

Lab Smt (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereomicroscope: % of Asbestos	Color	Friability	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: II	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
62	Roof Core 64A	Material: Glue/Adhesive Location: Top Layer	O	Br	Y	G	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															1W
								Actinolite															
63	Roof Core 64B	Material: Tar Paper Location: Top/Bottom of foam	O	M	N	G/F	N	Chrysotile															
								Amosite															
								Crocidolite											S/E		R/EE		
								Tremolite															
								Anthophyllite											IS		70		15
								Actinolite															
64	Roof Core 64C	Material: Tar Location: Top of Deck	O	Bk	Y	G	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															1W
								Actinolite															
65	Roof core 65A	Material: Glue/Adhesive Location: Top Layer	O	M	N	G	N	Chrysotile															
								Amosite															
								Crocidolite													R/EE		
								Tremolite															
								Anthophyllite													10		90
								Actinolite															
65	Roof Core 65B	Material: Tar Paper Location: Top/Bottom of foam	O	M	N	G/F	Y	Chrysotile															
								Amosite															
								Crocidolite											S/E		R/EE		
								Tremolite															
								Anthophyllite											IS		70		15
								Actinolite															

Temp in Celcius = ____

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereomicroscope: % of Asbestos	Color	Luminosity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ∥	RI: ⊥	Non-Asbestos Percentage (%): Fibrglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
67	Roof Core 65C	Material: Tar Location: Top of Deck	O	BK	Y	G	N	Chrysotile											R/FE					
								Amosite																
								Crocidolite																
								Tremolite																
								Anthophyllite											10					90
								Actinolite																
68	Roof Core 66A	Material: Glue/Adhesive Location: Top Layer	O	M	N	G	N	Chrysotile											R/FE					
								Amosite																
								Crocidolite																
								Tremolite																
								Anthophyllite											10					90
								Actinolite																
69	Roof Core 66B	Material: Tar Paper Location: Top/Bottom of foam	O	M	N	G/F	Y	Chrysotile									S/N		R/FE					
								Amosite																
								Crocidolite																
								Tremolite																
								Anthophyllite									IS		70					IS
								Actinolite																
70	Roof Core 66C	Material: Tar Location: Top of Deck	O	BK	Y	G	N	Chrysotile											R/FE					
								Amosite																
								Crocidolite																
								Tremolite																
								Anthophyllite											10					90
								Actinolite																
71	Roof Core 67A	Material: Glue/Adhesive Location: Top Layer	O	M	N	G	N	Chrysotile											R/FE					
								Amosite																
								Crocidolite																
								Tremolite																
								Anthophyllite											10					90
								Actinolite																

Temp in Celcius = ____

Lab Int# (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereomicroscope: % of Asbestos	Color	Transparency	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: II	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
72	Roof Core 67B	Material: Tar Paper Location: Top/Bottom of foam	O	M	N	9/F	Y	Chrysotile									5/E		R/EE				
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite									15		70				15
								Actinolite															
73	Roof Core 67C	Material: Tar Location: Top of deck	O	Bk	Y	G	N	Chrysotile											R/EE				
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite											10				90
								Actinolite															
74	Roof Core 68A	Material: Glue/Adhesive Location: Top Layer	O	M	N	G	N	Chrysotile											R/EE				
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite											10				90
								Actinolite															
75	Roof Core 68B	Material: Tar Paper Location: Top/Bottom of foam	O	M	N	9/F	Y	Chrysotile									5/E		R/EE				
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite									15		70				15
								Actinolite															
76	Roof Core 68C	Material: Tar/Fiberboard Location: Top of deck	O	M	N	9/F	Y	Chrysotile											R/F				
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite											70				20/30
								Actinolite															

ST 7/15

Temp in Celcius = ____

Lab #s (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereomicroscope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ∥	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
77	Roof Core 69A	Material: Glue/Adhesive Location: Top Layer	C	M	N	G	N	Chrysotile											R/CE				
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite											10				90
								Actinolite															
78	Roof Core 69B	Material: Tar Paper Location: Top/Bottom of Deck	C	M	N	G/F	N	Chrysotile									S/C		R/CE				
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite											70				15
								Actinolite									15						
79	Roof Core 69C	Material: Tar/Fiberboard Location: Top of Deck	C	M	N	G/F	N	Chrysotile											R/CE				
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite											40				60
								Actinolite															
80	Roof Core 70A	Material: Glue/Adhesive Location: Top Layer	C	Y	Y	G	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite											10				90
								Actinolite															
81	Roof Core 70B	Material: Tar Paper Location: Top/Bottom of foam	C	M	N	G/F	Y	Chrysotile									S/C		R/CE				
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite									15		70				15
								Actinolite															

DT 7/15

Temp in Celcius: ____

Lab Ind (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereomicroscope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ‖	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
82	Roof Core 70C	Material: Tar/fiberboard Location: Top of Deck	O	M	N	G/F	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite											R/EE 40				60
83	Roof Core 71A	Material: Glue/Adhesive Location: Top Layer	O	M	N	G	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite											R/IE 10				90
84	Roof Core 71B	Material: Tar/Paper Location: Top/Bottom of foam	O	M	N	G/F	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite										S/E 15	R/EE 20				15
85	Roof Core 71C	Material: Tar/fiberboard Location: Top of Deck	O	M	N	G/F	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite											R/EE 40				60
86	Roof Core 72A	Material: Glue/Adhesive Location: Top Layer	O	Y	Y	G	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite											R/EE 10				90

Dana - CDW
138520

Lab ID (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereomicroscope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: II	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
87	Roof Core	Material: Tar Paper	O	M	N	G/F	Y	Chrysotile									S/T		R/FE				
								Amosite															
								Crocidolite															
								Tremolite															
	72B	Location: Top / Bottom of foam						Anthophyllite									15		70				15
								Actinolite															
88	Roof Core	Material: Tar / fiberboard	O	M	N	G/F	N	Chrysotile											R/FE				
								Amosite															
								Crocidolite															
								Tremolite															
	72C	Location: Top of Deck						Anthophyllite											40				60
								Actinolite															
89	Roof Core	Material: Glue / Adhesive	O	Y	Y	G	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
	73A	Location: Top Layer						Anthophyllite															100
								Actinolite															
90	Roof Core	Material: Tar Paper	O	M	N	G/F	Y	Chrysotile									S/T		R/FE				
								Amosite															
								Crocidolite															
								Tremolite															
	73B	Location: Top / Bottom of foam						Anthophyllite									15		70				15
								Actinolite															
91	Roof Core	Material: Tar / fiberboard	O	M	N	G/F	N	Chrysotile											R/FE				
								Amosite															
								Crocidolite															
								Tremolite															
	73C	Location: Top of Deck						Anthophyllite											40				60
								Actinolite															

Temp in Celcius = _____

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereomicroscope: % of Asbestos	Color	Luminescence	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ∥	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
92	Roof Core 74A	Material: Glue/Adhesive Location: Top Layer	O	M	N	G	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
93	Roof Core 74B	Material: Tar Paper Location: Top/Bottom of foam	O	M	N	G/F	Y	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite										1S C		R CE 70				1S
94	Roof Core 74C	Material: Tar Location: Top of Deck	O	Bk	Y	G	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
95	Roof Core 75A	Material: Glue/Adhesive Location: Top Layer	O	Y	Y	G	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
96	Roof Core 75B	Material: Tar Paper Location: Top/Bottom of foam	O	M	N	G/F	Y	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite										1S C		R CE 70				1S

Temp in Celcius = _____

Lab Int# (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereomicroscope: % of Asbestos	Color	Fibrogenicity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ∥	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
97	Roof Core	Material: Glue/Adhesive	O	Y	Y	G	N	Chrysotile															
								Amosite															
								Crocidolite															
		Location: Top Layer						Tremolite															
	76A							Anthophyllite															100
								Actinolite															
98	Roof Core	Material: Tar Paper	O	M	N	G/F	Y	Chrysotile															
								Amosite									S/E		R/EE				
								Crocidolite															
		Location: Top/Bottom of Foam						Tremolite															
	76B							Anthophyllite									15		20				15
								Actinolite															
99	Roof Core	Material: Tar/fiberboard	O	M	N	G/F	N	Chrysotile															
								Amosite											R/EE				
								Crocidolite															
		Location: Top of Deck						Tremolite															
	76C							Anthophyllite											10				90
								Actinolite															
100	Roof Core	Material: Glue/Adhesive	O	Y	Y	G	N	Chrysotile															
								Amosite															
								Crocidolite															
		Location: Top Layer						Tremolite															
	77A							Anthophyllite															100
								Actinolite															
101	Roof Core	Material: Tar Paper	O	M	N	G/F	Y	Chrysotile															
								Amosite									S/E		R/EE				
								Crocidolite															
		Location: Top/Bottom of Foam						Tremolite															
	77B							Anthophyllite									15		70				15
								Actinolite															

Temp in Celcius = ____

Lab Ing (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereomicroscope: % of Asbestos	Color	Fluorescency	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: II	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
02	Roof Core	Material: Tar/fiberboard						Chrysotile															
								Amosite									S/E		R/FE				
								Crocidolite															
		Location	O	M	N	G/F	N	Tremolite															
	77C	Top of Deck						Anthophyllite									15		70				15
								Actinolite															
03	Roof Core	Material: Glue/Adhesive						Chrysotile															
								Amosite															
								Crocidolite															
		Location	O	Y	Y	G	N	Tremolite															
	78A	Top Layer						Anthophyllite															
								Actinolite															100
04	Roof Core	Material: Tar Paper						Chrysotile															
								Amosite									S/E		R/FE				
								Crocidolite															
		Location	O	M	N	G/F	Y	Tremolite															
	78B	Top/Bottom of foam						Anthophyllite									15		70				15
								Actinolite															
05	Roof Core	Material: Tar/Fiberboard						Chrysotile															
								Amosite															
								Crocidolite															
		Location	O	M	N	G/F	N	Tremolite											R/FE				
	78C	Top of Deck						Anthophyllite											10				90
								Actinolite															
06	Roof Core	Material: Glue/Adhesive						Chrysotile															
								Amosite															
								Crocidolite															
		Location	O	Y	Y	G	N	Tremolite															
	79A	Top Layer						Anthophyllite															
								Actinolite															100

Temp in Celcius: ____

Lab Init (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereomicroscope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: II	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
67	Roof Core 79B	Material: Tar Paper Location: Top/Bottom of Foam (School Entrance)	O	M	N	G/F	Y	Chrysotile									S/E		R/CE				
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite									15		70				15
								Actinolite															
68	Roof Core 79C	Material: Tar Location: (School Entrance) Top of Deck	O	BK	Y	G	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															100
69	Roof Core 80A	Material: Glue/Adhesive Location: Top Layer	O	Y	Y	G	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															100
70	Roof Core 80B	Material: Tar Paper Location: Top/Bottom of Foam	O	M	N	G/F	Y	Chrysotile									S/E		R/CE				
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite									15		70				15
								Actinolite															
71	Roof Core 80C	Material: Tar Location: Top of Deck	O	BK	Y	G	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															100

Lab Int (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Temp in Celcius = ____	Stereomicroscope					Asbestos Minerals	Optical Properties						RI		Non-Asbestos Percentage (%)						
				% of Asbestos	Color	Fluorescence	Texture	Friable		Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	=	⊥	Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
12	R..F Core 81A	Material: Tar/Adhesive Location: Top Layer		O	Y	Y	G	N	Chrysotile															
									Amosite															
									Crocidolite															
									Tremolite															
									Anthophyllite															100
									Actinolite															
13	R..F Core 81B	Material: Tar Paper Location: Top/Bottom of foam		O	M	N	G/F	Y	Chrysotile															
									Amosite									S/E		R/EE				
									Crocidolite															
									Tremolite															
									Anthophyllite									15		70				15
									Actinolite															
14	R..F Core 81C	Material: Tar Location: Top of Deck		O	BK	Y	G	N	Chrysotile															
									Amosite															
									Crocidolite															
									Tremolite															
									Anthophyllite															100
									Actinolite															
15	R..of Core 82A	Material: Glue/Adhesive Location: Top Layer		O	Y	Y	G	N	Chrysotile															
									Amosite															
									Crocidolite															
									Tremolite															
									Anthophyllite															100
									Actinolite															
16	R..F Core 82B	Material: Tar Paper Location: Top/Bottom of foam		O	M	N	G/F	Y	Chrysotile															
									Amosite									S/E		R/EE				
									Crocidolite															
									Tremolite															
									Anthophyllite									15		70				15
									Actinolite															

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Lab Int# (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Temp in Celcius = ____ Stereomicroscope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: II	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
17	Roof Core 83A	Material: Glue/Adhesive Location: Top Layer	0	Tan				Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															1	
18	Roof Core 83B	Material: Tar Paper Location: Top/Bottom of foam	0	Tan		Gritty		Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite									S 10		DE 60				30	
19	Carb Cut 29A	Material: Glue/Adhesive Location: Top Layer	0	Y	Y	G	N	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100	NS
20	14A	Material: Dark Grey Caulking Location: Under-flashing over auditorium Entrance	0	Grey				Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															1	
21	14B	Material: " Location: "	0	Grey				Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															1	

Temp in Celcius = _____

Lab Int (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereomicroscope: % of Asbestos	Color	Friability	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: II	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
22 X	14C	Material: Dark Grey Caulking Location: Under flashing over Auditorium Entrance	0					Chrysotile															1-
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															
23	15A	Material: Dark Grey Sealant Location: Roof	0					Chrysotile															1-
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															
24	15B	Material: " Location: "	0					Chrysotile															1-
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															
25	16A	Material: Tar Location: (Auditorium) on Hatch	0					Chrysotile															1-
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															
26	16B	Material: " Location: "	0					Chrysotile															1-
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Temp in Celcius = ____ / Material / Location	Stereomicroscope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: =	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
27	17A	Material: Dark Gray Caulk Location: On Flashing (main roof Chimney)	Cyprus					Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															F
28	17B	Material: " Location: "	Cyprus					Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															F
29	18A	Material: Dark Gray Caulk Location: On Flashing (main roof above library)	Cyprus					Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															F
30	18B	Material: " Location: "	Cyprus					Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															F
31	19A	Material: Gray Caulk Location: On Flashing → Sides (main roof above library)	Cyprus					Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															F

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Temp in Celcius = ____ / Material / Location	Stereomicroscope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: =	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
32	19B	Material: Gray Caulk Location: On flashing → sides (main roof above library)	Ugyo					Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															60
33	20A	Material: Dark Gray Caulk Location: under flashing (main roof above library)	Ugyo					Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															60
34	20B	Material: " Location: "	Ugyo					Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															60
35	21A	Material: Gray Caulk Location: On Brick Wall (main roof above library)	Ugyo					Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															60
36	21B	Material: " Location: "	Ugyo					Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															60

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Temp in Celcius = ____ / Material / Location	Stereomicroscope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: =	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
37	22A	Material: Tar Location: on HVAC Unit	Other					Chrysotile	5%														
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															95
								Actinolite															
38	22B	Material: " Location: "						Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															Duo
								Actinolite															
39	23A	Material: Gray Caulk Location: on Bolts on HVAC Units	Opaque					Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															1%
								Actinolite															
40	23B	Material: " Location: "	Opaque					Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															1%
								Actinolite															
41	24A	Material: Gray Caulk Location: on HVAC Units	Opaque					Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															1%
								Actinolite															

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Temp in Celcius = ____ Material / Location	Stereomicroscope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ∥	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
43	24B	Material: Gray Caulk Location: On HVAC Units	0	gray				Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															NA
								Actinolite															
44	25A	Material: Gray Caulk w/ Black Coating Location: HVAC Unit (one)	0	gray		grainy		Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															NA
								Actinolite															
45	25B	Material: " Location: "	0	gray				Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															NA
								Actinolite															
46	26A	Material: Gray Caulk Location: Communication tower	0	gray				Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															NA
								Actinolite															
47	26B	Material: " Location: "	0	gray				Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															NA
								Actinolite															

Temp in Celcius = ____

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereomicroscope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: =	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
47	27A	Material: Dark Gray Caulk Location: on Mitsubishi Electric Unit Conduit	0	gy	o	o	~	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															fw
								Actinolite															
48	27B	Material: " Location: "	0	gy	o	o	~	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															fw
								Actinolite															
49	28A	Material: Black window Glaze Location: School entrance roof	0	bk	o	o	~	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															fw
								Actinolite															
50	28B	Material: " Location: "	0	bk	o	o	~	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															fw
								Actinolite															
51	29A	Material: Dark window Caulk Location: School entrance roof	0	gy	o	o	~	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															fw
								Actinolite															

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Temp in Celcius = ____ / Material / Location	Stereomicroscope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ∥	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
52	29B	Material: Dark window caulk Location: School entrance roof	Org					Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															~
53	30A	Material: Black caulk Location: On Flashing (Between window units)	Org					Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															~
54	30B	Material: " Location: "	Org					Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															~
55	31A	Material: White caulk Location: under flashing	Org					Chrysotile	5	~	R	F	~	~	1.55	1.61							
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															45
56	31B	Material: " Location: "						Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															

PLM

Temp in Celcius = ____

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereomicroscope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ∥	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
57	32A	Material: Dark Gray Caulk Location: on Flashing / Bolts						Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															
58	32B	Material: " Location: "						Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															
59	33A	Material: Black Caulk Location: On Brick (Conduit)						Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															
60	33B	Material: " Location: "						Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															
61	34A	Material: Gray Caulk Location: on ~~boot~~ flashing						Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															

Temp in Celcius = ____

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereomicroscope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ‖	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
62	3B	Material: Gray Caulk Location: on Flashing	0					Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															L
63	Curb Cut 6A	Material: Glue/Adhesive Location: Top Layer	0					Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															L
64	Curb Cut 6B	Material: Insulation Location: Between rubber and wall	0					Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite													FR 10		L
65	Curb Cut 6C	Material: Tar Location: on wall	5					Chrysotile	5	L													
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															95
		Material Location						Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Temp in Celcius = ____ / Material / Location	Stereomicroscope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ∥	⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
69	Curb Cut 28A	Material / Location	Chrysotile																				
			Amosite																				
			Crocidolite																				
			Tremolite																				
			Anthophyllite																				
			Actinolite																				1-
57	Roof Core 39A	Material / Location	Chrysotile																				
			Amosite																				
			Crocidolite																				
			Tremolite																				
			Anthophyllite																				
			Actinolite																				1-
68	Roof Core 39B	Material / Location	Chrysotile																				
			Amosite																				
			Crocidolite																				
			Tremolite																				
			Anthophyllite																				
			Actinolite																				2
59	Roof Core 39C	Material / Location	Chrysotile																				
			Amosite																				
			Crocidolite																				
			Tremolite																				
			Anthophyllite																				
			Actinolite																				3-
70	Roof Core 41A	Material / Location	Chrysotile																				
			Amosite																				
			Crocidolite																				
			Tremolite																				
			Anthophyllite																				
			Actinolite																				3-

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Temp in Celcius = ____ / Material / Location	Stereomicroscope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ∥	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
71	~~Roof~~ ~~Core~~ 41B	Material						Chrysotile															
								Amosite															
								Crocidolite															
		Location						Tremolite															
								Anthophyllite															
								Actinolite															
72	Roof Core 41C	Material						Chrysotile															
								Amosite															
								Crocidolite															
		Location						Tremolite															
								Anthophyllite															
								Actinolite															
73	Roof Core 42A	Material						Chrysotile															
								Amosite															
								Crocidolite															
		Location						Tremolite															
								Anthophyllite															
								Actinolite															
74	Roof Core 42B	Material						Chrysotile															
								Amosite															
								Crocidolite															
		Location						Tremolite															
								Anthophyllite															
								Actinolite															
75	~~Roof~~ Core 42C	Material						Chrysotile															
								Amosite															
								Crocidolite															
		Location						Tremolite															
								Anthophyllite															
								Actinolite															

APPENDIX C

Telephone: 781-935-3212
Facsimile: 781-932-4857
Email: BostonAero@PaceLabs.com

Laboratory Report

Contact: Bryant Dana
Client: CDW Consultants, Inc.
Address: 4 California Drive
Framingham, MA 01701

Batch #: C 320131
Date received: 7/2/2025
Date analyzed: 7/10/2025
Date of report: 7/10/2025

Project # N/A
P.O.# N/A
Project Site: Amherst - Pelham Middle School

AIHA-LAP, LLC Lab ID: 102754

Lead Analysis In Paint Using SOP Based on SW846-7000B/3051
Results in weight percent on an "as received" weight basis

Lab ID	Client ID	Sample date	Description	Result	Reporting Limit	Comments
C 760418	LBP-1	6/30/25	Maroon Paint on Louver - Roof Over Swimming Pool	1.11	0.034	
C 760419	LBP-2	6/30/25	Black Paint on Siding - Pool / Gyms Roof	0.132	0.084	
C 760420	LBP-3	6/30/25	Black Paint on Siding - Auditorium Roof	<RL	0.019	
C 760421	LBP-4	6/30/25	Black Paint on Siding - Main School Roof	0.113	0.040	
C 760422	LBP-5	6/30/25	Blue Paint Under Siding / On Columns - Main School Roof Entrance	<RL	0.054	

Sydney Strong, Technical Manager Chemistry
Aimee Cormier, Lab Director

Unless otherwise indicated, all samples were received in acceptable condition.
All results apply only to the samples tested and as received and are accurate to no more than three significant figures.
Unless otherwise indicated, all the quality control criteria for the method above have been met.
RL-Reporting Limit(% by weight) Note on units: mg/Kg is the same as ppm by weight.
RL-Reporting Limit; Defined as the lowest concentration the laboratory can accurately quantitate..

Please visit our website at www.PaceLabs.com for the current accreditation status.

ProScience Analytical Services, Inc.
Chemistry Chain of Custody Record

LABORATORY/HEADQUARTERS
22 Cummings Park, Woburn, MA 01801
T:781-938-3212 F:781-932-4897

www.proscience.net
general@proscience.net

Rush/<6 Hours — Turn Around Time Requested

Same Day	Next Day	2 Day	3 Day	5 Days
			X	

Client: CW Consultants Inc

Address: Street: 4 California Ave, Framingham, MA. 01701
Town: State/Zip: MA / 01701

Project Site: Line 1: Amherst - Pelham Middle School
Line 2:
Project Number:
PO:

Contact: Bryant Dana
Phone: 781-879-2828
FAX:
Author: bdana@cwconsultants.com

☐ NELAC analysis

TYPE OF ANALYSIS (circle)

DUST WIPES	PAINT (0.1 g)	SOIL (1 g)
AIR	TEP	TCLP (100g)
(min)	PM10	Other

Please use a separate form for each matrix.

Element: gravimetric

Pb Cd Cr As Fe
Se Ag Ba Hg

Other (please specify under Comments)

For Laboratory Use
BATCH NUMBER: C320131

☐ QC

☐ ASTM E1792

FOR LABORATORY USE ONLY

Date and Time Sampled	Field I.D.	Sample Description/Location (Cover)	Air Sampling Information: Start Time	End Time	Start Flowrate	End Flowrate	Volume (liters)	Wipe area: length (inch)	width (inch)	Area (sq in)	ANALYSIS: Weight (grams)	Dil'n	AA/ICP Reading	RESULT	Lab I.D.
6/30/25	LBP-1	Maroon Paint on Cover - Roof over Swimming Pool													760418
6/30/25	LBP-2	Black Paint on Siding - Pool/Gyms Roof													19
7/1/25	LBP-3	Black Paint on Siding - Auditorium Roof													20
7/1/25	LBP-4	Black Paint on Siding - Main School Roof													21
7/2/25	LBP-5	Blue Paint under Siding / on Columns - Main School Roof Entrance													22

Relinquished By: [signature] Date: 7/2/25 Time: 1300
Received By: [signature] Date: 7/2/25 Time: 1541

Comments:

ver 6.8

PAGE 1 OF 1

Field blanks are required for air and wipe samples per the sampling method and should be from the same source lot as was used for the collected field samples.
Proscience Analytical Services reserves the right to subcontract samples to an appropriately accredited laboratory when we are unable to perform the analysis in house.

APPENDIX B

PHOTO VOLTAIC AND ENERGY ASSESSMENTS

APPENDIX C

STRUCTURAL ASSESSMENT

Engineers Design Group Inc.

389 Main Street, Suite 401
Malden, MA 02148

Phone: 781-396-9007
www.edginc.com

Amherst-Pelham Regional Middle School

179 Chestnut Street

Springfield, Massachusetts

STRUCTURAL ASSESSMENT AND CHAPTER 34 CODE REVIEW

June 16, 2025

SCOPE

The purpose of this report is to evaluate the reserve capacity of the existing roof structure for replacement of the existing roofing over the entire footprint of the roof. This assessment also includes a code review to identify whether any upgrades are required to the existing structure based on the reroofing on the roof structure.

BASIS OF THE REPORT

This report is based on our observations during our visit to the school on April 25, 2025 and review of the original construction drawings prepared by Alderman & MacNeish Architects and Engineers, dated August 14, 1967 and review of the roof assessment report prepared by Gale Associates, Inc., dated December 12, 2017.

BUILDING DESCRIPTION

The School is located Chestnut Street in Amherst, Massachusetts. The school is a two story steel framed structure and was constructed in 1967, no additions were constructed or major renovations were made to the school since the time of the original construction. We conducted an analysis of the existing roof framing and noted that the roof structure has a very uniform capacity over the entire roof. The roof can safely support the design snow loads from the current Building Code and will support the load from the proposed replacement roofing system. We concluded that the roof structure has a very limited reserve capacity of 5 psf and will not be able to support a ballasted PV panels system. The existing roof structure would be able to support a PV Panels system that is directly connected to the structure or on dunnage steel platforms supported on the existing columns.

PROPOSED SCOPE OF REROOFING AND INSTALLATION OF PV PANELS

The proposed scheme calls for replacement of the existing roofing system with a membrane roofing system either adhered or mechanically fastened with 5 3/8” polyisocyanurate insulation with a ½” dens deck and ½” high density cover board. We cannot support any ballasted PV panels on top of the

structure. The panels will have to be supported by directly connecting it to the roof structure or on dunnage steel spanning between existing columns. Allow for 10 psf of galvanized dunnage steel for an area of 1,000 sf for total steel allowance of 5 tons.

PRIMARY STRUCTURAL CODE ISSUES RELATED TO THE EXISTING STRUCTURE

If any repairs, renovations, additions or change of occupancy or use are made to the existing structure, a check for compliance with 780 CMR, Chapter 34 "Existing Structures" (Massachusetts Amendments to The International Existing Building Code 2018) of the Massachusetts Amendments to the International Building Code 2021 (IBC 2021) and reference code "International Existing Building Code 2018" (IEBC 2018) is required. The intent of the IEBC and the related Massachusetts Amendments to IEBC is to provide alternative approaches to alterations, repairs, additions and/or a change of occupancy or use without requiring full compliance with the code requirements for new construction.

The IEBC provides three compliance methods for the repair, alteration, change of use or additions to an existing structure. Compliance is required with only one of the three compliance alternatives. Once the compliance alternative is selected, the project will have to comply with all requirements of that particular method. The requirements from the three compliance alternatives cannot be applied in combination with each other.

The three compliance methods are as follows:

1. Prescriptive Compliance Method.
2. Work Area Compliance Method.
3. Performance compliance Method.

NOTE: The Performance Compliance Method is onerous and would require the existing structure to comply with essentially the Code for New Construction; thus, we will only consider the Prescriptive Compliance Method and the Work Area Compliance Method for our project.

COMMENT

For any proposed renovations, the approach is to evaluate the compliance requirements for each of the three methods and select the method that would yield the most cost effective solution for the structural scope of the project. The requirements for reroofing are identical in all the compliance methods. We would recommend following the requirements of the Work Area Compliance Method. In this method the alterations would be classified as Level 1 Alterations.

ADDITIONAL GRAVITY LOADS (IEBC 706.2)

The Work Area Compliance Methods both require that it be shown that the existing gravity load carrying elements meet the requirements of the Code for New Construction, unless the structural elements' stresses are not increased by more than 5 percent.

Based on an evaluation of the proposed scheme, and an evaluation of the existing structure, we have determined that the replacement of the roofing would not increase the stresses on the roof structure, walls and foundations by more than 5 percent under gravity loads.

SUMMARY

We have determined that the proposed replacement reroofing system can be safely supported on the existing roof structure and no structural upgrades of the existing structure is required.

Based on the analysis of the existing structure we have determined that the existing structure does not have adequate capacity to support a ballasted PV system on the roof structure but can support a PV system that is directly connected to the roof structure or supported on dunnage steel spanning between existing columns. Allow for 10 psf of galvanized dunnage steel for an area of 1,000 sf for total steel allowance of 5 tons.

Tekla Tedds
Engineers Design Group Inc
389 Main Street,
Malden, MA 02148

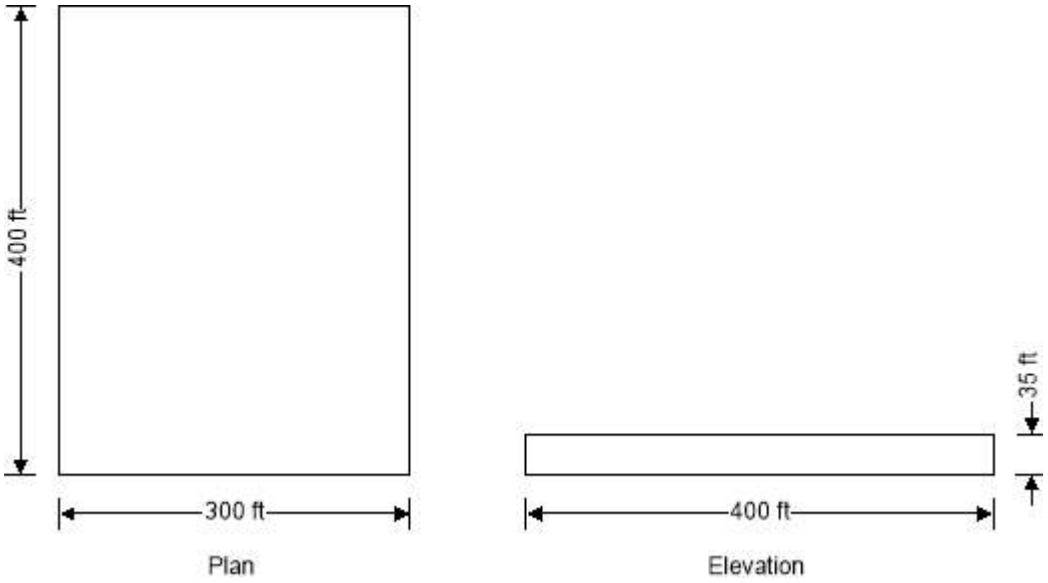
Project				Job Ref.	
Section				Sheet no./rev. 1	
Calc. by T	Date 6/14/2025	Chk'd by	Date	App'd by	Date

WIND LOADING

In accordance with ASCE7-16

Using the components and cladding design method

Tedds calculation version 2.1.14



Building data

Type of roof	Flat
Length of building	b = **300.00** ft
Width of building	d = **400.00** ft
Height to eaves	H = **35.00** ft
Mean height	h = **35.00** ft
End zone width	a = max(min(0.1×min(b, d), 0.4×h), 0.04×min(b, d), 3ft) = **14.00** ft

General wind load requirements

Basic wind speed	V = **123.0** mph
Risk category	III
Velocity pressure exponent coef (Table 26.6-1)	K_d = **0.85**
Ground elevation above sea level	z_{gl} = **0** ft
Ground elevation factor	$K_e = \exp(-0.0000362 \times z_{gl}/1ft)$ = **1.00**
Exposure category (cl 26.7.3)	C
Enclosure classification (cl.26.12)	Enclosed buildings
Internal pressure coef +ve (Table 26.13-1)	GC_{pi_p} = **0.18**
Internal pressure coef –ve (Table 26.13-1)	GC_{pi_n} = **-0.18**
Gust effect factor	G_f = **0.85**

Topography

Topography factor not significant	K_{zt} = 1.0

Velocity pressure

Velocity pressure coefficient (Table 26.10-1)	K_z = **1.01**
Velocity pressure	$q_h = 0.00256 \times K_z \times K_{zt} \times K_d \times K_e \times V^2 \times 1psf/mph^2$ = **33.2** psf

Peak velocity pressure for internal pressure

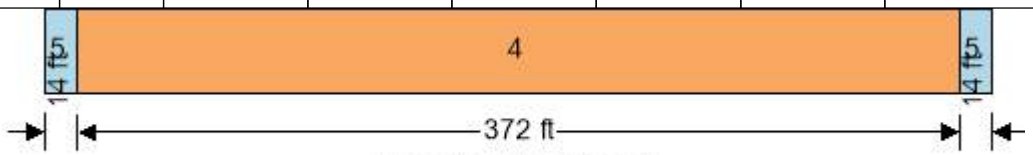
Peak velocity pressure – internal (as roof press.) q_i = **33.25** psf

Equations used in tables

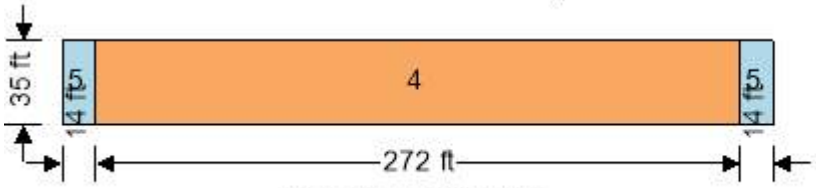
Net pressure $p = q_h \times [GC_p - GC_{pi}]$

Components and cladding pressures - Wall (Table 30.3-1)

Component	Zone	Length (ft)	Width (ft)	Eff. area (ft^2)	+GC_p	-GC_p	Pres (+ve) (psf)	Pres (-ve) (psf)
<=10 sf	4	-	-	10.0	0.90	-0.99	35.9	-38.9
50 sf	4	-	-	50.0	0.79	-0.88	32.2	-35.2
200 sf	4	-	-	200.0	0.69	-0.78	29.0	-32.0
>500 sf	4	-	-	500.1	0.63	-0.72	26.9	-29.9
<=10 sf	5	-	-	10.0	0.90	-1.26	35.9	-47.9
50 sf	5	-	-	50.0	0.79	-1.04	32.2	-40.5
200 sf	5	-	-	200.0	0.69	-0.85	29.0	-34.1
>500 sf	5	-	-	500.1	0.63	-0.72	26.9	-29.9



Elevation of gable wall



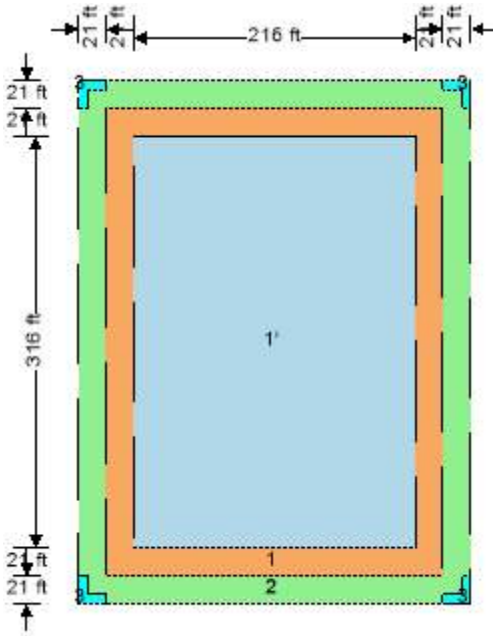
Elevation of side wall

Components and cladding pressures - Roof (Figure 30.3-2A)

Component	Zone	Length (ft)	Width (ft)	Eff. area (ft^2)	+GC_p	-GC_p	Pres (+ve) (psf)	Pres (-ve) (psf)
<=10 sf	1	-	-	10.0	0.30	-1.70	16.0 #	-62.5
100 sf	1	-	-	100.0	0.20	-1.29	12.6 #	-48.8
200 sf	1	-	-	200.0	0.20	-1.16	12.6 #	-44.7
>500 sf	1	-	-	500.1	0.20	-1.00	12.6 #	-39.2
<=10 sf	1'	-	-	10.0	0.30	-0.90	16.0 #	-35.9
100 sf	1'	-	-	100.0	0.20	-0.90	12.6 #	-35.9
500 sf	1'	-	-	500.0	0.20	-0.55	12.6 #	-24.3
>1000 sf	1'	-	-	1000.1	0.20	-0.40	12.6 #	-19.3
<=10 sf	2	-	-	10.0	0.30	-2.30	16.0 #	-82.5
100 sf	2	-	-	100.0	0.20	-1.77	12.6 #	-64.8

Component	Zone	Length (ft)	Width (ft)	Eff. area (ft^2)	+GC_p	-GC_p	Pres (+ve) (psf)	Pres (-ve) (psf)
200 sf	2	-	-	200.0	0.20	-1.61	12.6 #	-59.5
>500 sf	2	-	-	500.1	0.20	-1.40	12.6 #	-52.5
<=10 sf	3	-	-	10.0	0.30	-3.20	16.0 #	-112.4
100 sf	3	-	-	100.0	0.20	-2.14	12.6 #	-77.2
200 sf	3	-	-	200.0	0.20	-1.82	12.6 #	-66.6
>500 sf	3	-	-	500.1	0.20	-1.40	12.6 #	-52.5

The final net design wind pressure, including all permitted reductions, used in the design shall not be less than 16psf acting in either direction



Plan on roof