

May 5, 2022

NJSEA Meadowlands Fire House Roof Replacement

East Rutherford, New Jersey

Bid Due Date: May 19, 2022 @ 12:00PM

ADDENDUM #1

- A. The Bid walk summary is incorporated with the changes below and should be included in the bid pricing. Changes included in this bid walk:
- i. Provide an alternate price, including labor and material, to substitute a GAF SBS cap sheet, flashing, and details for the 60 mil TPO membrane and flashings.
 - ii. The Asbestos Containing Material (ACM) shall be double bagged on the roof and lowered into a double lined dumpster for ACM.
 - iii. Provide the Bill-of-Lading that the ACM was disposed of at an approved land fill.

Attachments:
Asbestos Survey Report

Include the acknowledgment of this addendum in your proposal submission.

Company Name (Print) Date

Receipt of Addendum #1: _____ (Signature)

End of Addendum #1

5. BULK SAMPLE RESULTS

Asbestos Bulk Sample Analytical Table				
Sample ID	Description	Location	Asbestos Concentration	ACM Quantities
Firehouse Building Roof				
GRB-01	New Pitch Pocket	West Side of Roof On Satellite Dish Base and Heat Stack Base	None Detected	20 SF
GRB-02			4.7% Chrysotile	
GRB-03			Positive Stop (Not Analyzed)	
GRB-04	Old Pitch Pocket	West Side of Roof On Exhaust Fan and Intake Fan Base	None Detected	Not Applicable
GRB-05			None Detected	Not Applicable
GRB-06			None Detected	Not Applicable
GRB-07	Roof Hot Tar (Layer 1)	West Side of Roof	None Detected	8,000 SF
GRB-08			10% Chrysotile	
GRB-09			Positive Stop (Not Analyzed)	
GRB-10	Perimeter Roof Flashing	West Side of Roof	25% Chrysotile	450 SF
GRB-11			Positive Stop / Not Analyzed	
GRB-12			Positive Stop / Not Analyzed	

6. RECOMMENDATIONS

CGRA recommends that the roofing material on the Firehouse be removed and disposed of in an asbestos registered landfill.

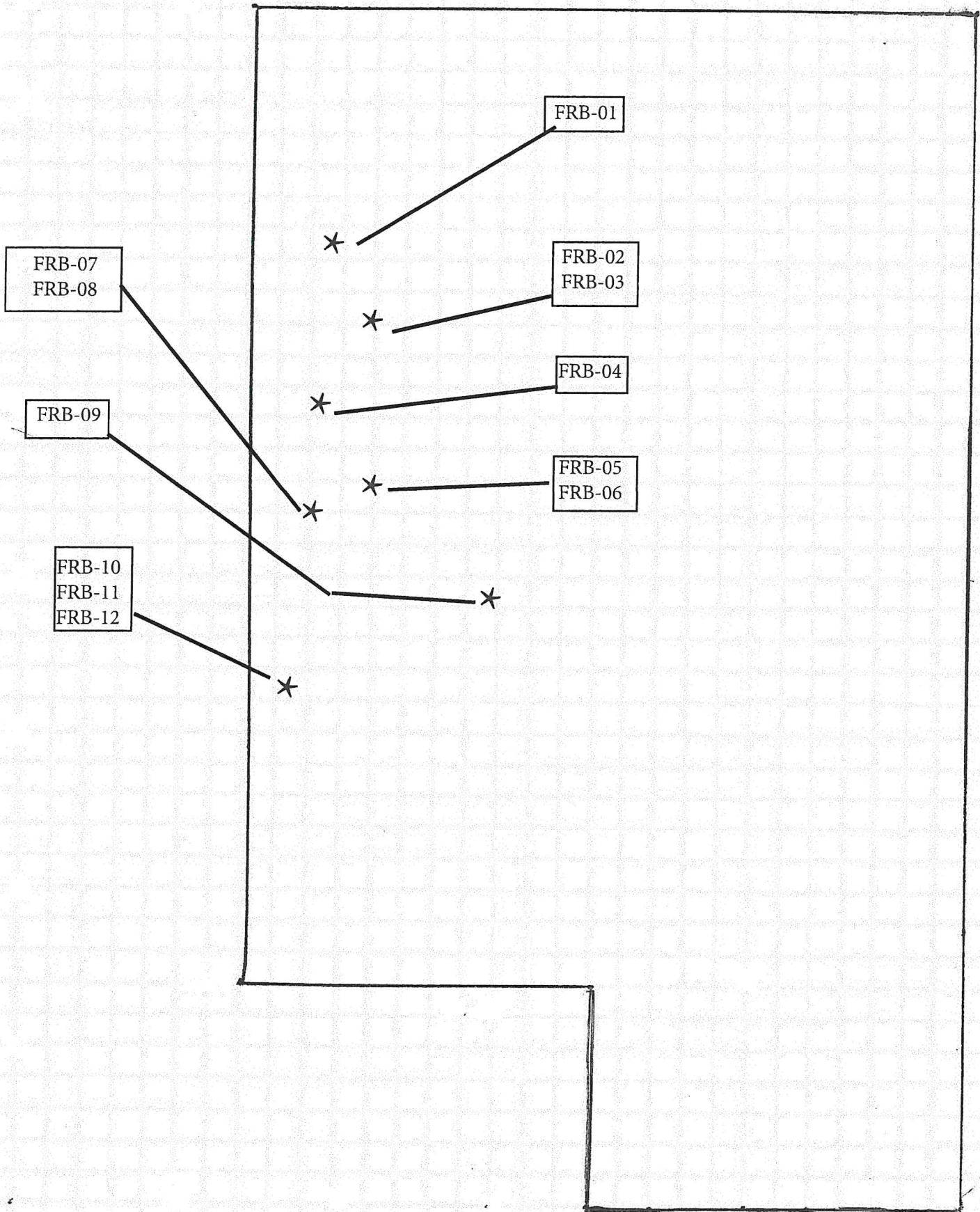
All locations and quantities of ACM identified in this report are estimates only and subject to verification by asbestos abatement contractors prior to abatement.

7. LIMITATIONS

CGRA utilized non-destructive inspection and sampling on the roof areas. If any previously unidentified suspect materials are encountered CGRA recommends not resuming any construction activity until sampling and analysis of the suspect materials by certified personnel proves otherwise.

The conclusions presented in this report are professional opinions based on the indicated data described

FIREHOUSE ROOF BULK SAMPLE LOCATIONS





EMSL Analytical, Inc.

307 West 38th Street New York, NY 10018
 Phone/Fax: (212) 290-0051 / (212) 290-0058
<http://www.EMSL.com / manhattanlab@emsl.com>

EMSL Order ID: 032108438
 Customer ID: HGCL52
 Customer PO:
 Project ID:

Attn: Christopher Pierce
 Chubb Global Risk Advisors (ESIS Inc)
 10 Exchange Place 13th Floor
 Jersey City, NJ 07302

Phone: (201) 356-5165
 Fax: (201) 356-5295
 Collected: 5/19/2021
 Received: 5/19/2021
 Analyzed: 5/23/2021

Proj: NJSEA.21.001/ MEADOWLANDS SPORTS COMPLEX/ FIREHOUSE ROOF BUILDING/ E. RUTHERFORD NJ

Summary Test Report for Asbestos Analysis in Accordance with N.J.A.C. 8:60 and 12:120 via EPA 600/R-93/116

Client Sample ID: FRB-01 Lab Sample ID: 032108438-0001

Sample Description: ROOF/ WEST SIDE/ ON SATELITE DISH BASE/NEW PITCH POCKET

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	05/20/2021	Black	20.0%	80.0%	None Detected	
TEM Grav. Reduction	05/23/2021	Black	0.0%	100.0%	<0.1% Chrysotile	

Client Sample ID: FRB-02

Lab Sample ID: 032108438-0002

Sample Description: ROOF/ WEST SIDE/ ON HEAT STOCK BASE/NEW PITCH POCKET

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	05/20/2021	Black	10.0%	90.0%	None Detected	
TEM Grav. Reduction	05/23/2021	Black	0.0%	95.3%	4.7% Chrysotile	

Client Sample ID: FRB-03

Lab Sample ID: 032108438-0003

Sample Description: ROOF/ WEST SIDE/ ON HEAT STOCK BASE/NEW PITCH POCKET

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	05/21/2021	Black	3.0%	97.0%	None Detected	
TEM Grav. Reduction	05/23/2021	Black			Positive Stop (Not Analyzed)	

Client Sample ID: FRB-04

Lab Sample ID: 032108438-0004

Sample Description: ROOF/ WEST SIDE/ ON EXHAUST FAN BASE/OLD PITCH POCKET

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	05/20/2021	Black	0.0%	100.0%	None Detected	
TEM Grav. Reduction	05/23/2021	Black	0.0%	100.0%	None Detected	

Client Sample ID: FRB-05

Lab Sample ID: 032108438-0005

Sample Description: ROOF/ WEST SIDE/ ON INTAKE FAN BASE/OLD PITCH POCKET

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	05/20/2021	Black	0.0%	100.0%	None Detected	
TEM Grav. Reduction	05/23/2021	Black	0.0%	100.0%	None Detected	

Client Sample ID: FRB-06

Lab Sample ID: 032108438-0006

Sample Description: ROOF/ WEST SIDE/ ON INTAKE FAN BASE/OLD PITCH POCKET

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	05/21/2021	Black	4.0%	96.0%	None Detected	
TEM Grav. Reduction	05/23/2021	Black	0.0%	100.0%	None Detected	

Robert N - 201-479-6382
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Summary Test Report for Asbestos Analysis in Accordance with N.J.A.C. 8:60 and 12:120 via EPA 600/R-93/116

Client Sample ID: FRB-07 Lab Sample ID: 032108438-0007
Sample Description: ROOF/ WEST SIDE OF ROOF/ROOF HOT TAR LAYER 1

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	05/20/2021	Black	18.0%	82.0%	None Detected	
TEM Grav. Reduction	05/20/2021				Positive Stop (Not Analyzed)	

Client Sample ID: FRB-08 Lab Sample ID: 032108438-0008
Sample Description: ROOF/ WEST SIDE OF ROOF/ROOF HOT TAR LAYER 1

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	05/20/2021	Black	12.0%	78.0%	10% Chrysotile	
TEM Grav. Reduction	05/20/2021				Positive Stop (Not Analyzed)	

Client Sample ID: FRB-09 Lab Sample ID: 032108438-0009
Sample Description: ROOF/ WEST SIDE OF ROOF/ROOF HOT TAR LAYER 1

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	05/20/2021				Positive Stop (Not Analyzed)	
TEM Grav. Reduction	05/20/2021				Positive Stop (Not Analyzed)	

Client Sample ID: FRB-10 Lab Sample ID: 032108438-0010
Sample Description: ROOF/ WEST SIDE OF ROOF/ROOF FLASHING PERIMETER

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	05/20/2021	Black	7.0%	68.0%	25% Chrysotile	
TEM Grav. Reduction	05/20/2021				Positive Stop (Not Analyzed)	

Client Sample ID: FRB-11 Lab Sample ID: 032108438-0011
Sample Description: ROOF/ WEST SIDE OF ROOF/ROOF FLASHING PERIMETER

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	05/20/2021				Positive Stop (Not Analyzed)	
TEM Grav. Reduction	05/20/2021				Positive Stop (Not Analyzed)	

Client Sample ID: FRB-12 Lab Sample ID: 032108438-0012
Sample Description: ROOF/ WEST SIDE OF ROOF/ROOF FLASHING PERIMETER

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	05/20/2021				Positive Stop (Not Analyzed)	
TEM Grav. Reduction	05/20/2021				Positive Stop (Not Analyzed)	

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Received Date: 05/19/2021 5:33 PM
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Collected Date: 05/19/2021

Project: NJSEA.21.001/ MEADOWLANDS SPORTS COMPLEX/ FIREHOUSE ROOF BUILDING/ E. RUTHERFORD NJ

**Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via
 EPA/600/R-93/116 Section 2.5.5.1**

Sample ID	Description	Appearance	% Matrix Material	% Non-Asbestos Fibers	Asbestos Types
FRB-01 032108438-0001	ROOF/ WEST SIDE/ ON SATELITE DISH BASE - NEW PITCH POCKET	Black Fibrous Heterogeneous	100.0 Other	None	<0.1% Chrysotile
FRB-02 032108438-0002	ROOF/ WEST SIDE/ ON HEAT STOCK BASE - NEW PITCH POCKET	Black Fibrous Heterogeneous	95.3 Other	None	4.7% Chrysotile
FRB-03 032108438-0003	ROOF/ WEST SIDE/ ON HEAT STOCK BASE - NEW PITCH POCKET				
Positive Stop (Not Analyzed)					
FRB-04 032108438-0004	ROOF/ WEST SIDE/ ON EXHAUST FAN BASE - OLD PITCH POCKET	Black Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
FRB-05 032108438-0005	ROOF/ WEST SIDE/ ON INTAKE FAN BASE - OLD PITCH POCKET	Black Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
FRB-06 032108438-0006	ROOF/ WEST SIDE/ ON INTAKE FAN BASE - OLD PITCH POCKET	Black Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
FRB-07 032108438-0007	ROOF/ WEST SIDE OF ROOF - ROOF HOT TAR LAYER 1				
Positive Stop (Not Analyzed)					
FRB-08 032108438-0008	ROOF/ WEST SIDE OF ROOF - ROOF HOT TAR LAYER 1				
Positive Stop (Not Analyzed)					
FRB-09 032108438-0009	ROOF/ WEST SIDE OF ROOF - ROOF HOT TAR LAYER 1				
Positive Stop (Not Analyzed)					
FRB-10 032108438-0010	ROOF/ WEST SIDE OF ROOF - ROOF FLASHING PERIMETER				
Positive Stop (Not Analyzed)					

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Samples analyzed by EMSL Analytical, Inc. New York, NY NYS ELAP 11506

Initial report from: 05/23/2021 12:27:59

**EMSL Analytical, Inc.**

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Tel/Fax: (212) 290-0051 / (212) 290-0058

<http://www.EMSL.com> / manhattanlab@emsl.com**EMSL Order:** 032108438**Customer ID:** HGCL52**Customer PO:****Project ID:**

Attention: Christopher Pierce
Chubb Global Risk Advisors (ESIS Inc)
10 Exchange Place 13th Floor
Jersey City, NJ 07302

Phone: (201) 356-5165
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Received Date: 05/19/2021 5:33 PM
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Project: NJSEA.21.001/ MEADOWLANDS SPORTS COMPLEX/ FIREHOUSE ROOF BUILDING/ E. RUTHERFORD NJ

**Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via
EPA/600/R-93/116 Section 2.5.5.1**

Sample ID	Description	Appearance	% Matrix Material	% Non-Asbestos Fibers	Asbestos Types
FRB-11 032108438-0011	ROOF/ WEST SIDE OF ROOF - ROOF FLASHING PERIMETER				
Positive Stop (Not Analyzed)					
FRB-12 032108438-0012	ROOF/ WEST SIDE OF ROOF - ROOF FLASHING PERIMETER				
Positive Stop (Not Analyzed)					

Analyst(s)

Ted Lam (5)

James Hall, Laboratory Manager
or other approved signatory

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Collected Date: 05/19/2021

Project: NJSEA.21.001/ MEADOWLANDS SPORTS COMPLEX/ FIREHOUSE ROOF BUILDING/ E. RUTHERFORD NJ

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
FRB-01 032108438-0001	ROOF/ WEST SIDE/ ON SATELITE DISH BASE - NEW PITCH POCKET	Black Fibrous Homogeneous	20% Cellulose <1% Fibrous_Other	5% Quartz 7% Ca Carbonate 68.0% Non-fibrous (Other)	None Detected
FRB-02 032108438-0002	ROOF/ WEST SIDE/ ON HEAT STOCK BASE - NEW PITCH POCKET	Black Non-Fibrous Homogeneous	10% Cellulose <1% Fibrous_Other	3% Quartz 5% Ca Carbonate 82.0% Non-fibrous (Other)	None Detected
FRB-03 032108438-0003	ROOF/ WEST SIDE/ ON HEAT STOCK BASE - NEW PITCH POCKET	Black Non-Fibrous Homogeneous	3% Cellulose	15% Ca Carbonate 82.0% Non-fibrous (Other)	None Detected
FRB-04 032108438-0004	ROOF/ WEST SIDE/ ON EXHAUST FAN BASE - OLD PITCH POCKET	Black Non-Fibrous Homogeneous		5% Quartz 60% Ca Carbonate 35.0% Non-fibrous (Other)	None Detected
FRB-05 032108438-0005	ROOF/ WEST SIDE/ ON INTAKE FAN BASE - OLD PITCH POCKET	Black Non-Fibrous Homogeneous		5% Quartz 65% Ca Carbonate 30.0% Non-fibrous (Other)	None Detected
FRB-06 032108438-0006	ROOF/ WEST SIDE/ ON INTAKE FAN BASE - OLD PITCH POCKET	Black Non-Fibrous Homogeneous	4% Cellulose	15% Ca Carbonate 81.0% Non-fibrous (Other)	None Detected
FRB-07 032108438-0007	ROOF/ WEST SIDE OF ROOF - ROOF HOT TAR LAYER 1	Black Fibrous Homogeneous	3% Cellulose 15% Glass	7% Quartz 5% Mica 70.0% Non-fibrous (Other)	None Detected
FRB-08 032108438-0008	ROOF/ WEST SIDE OF ROOF - ROOF HOT TAR LAYER 1	Black Fibrous Heterogeneous	7% Cellulose 5% Glass	15% Quartz 3% Mica 60.0% Non-fibrous (Other)	10% Chrysotile
FRB-09 032108438-0009	ROOF/ WEST SIDE OF ROOF - ROOF HOT TAR LAYER 1				Positive Stop (Not Analyzed)

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Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC--JHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11506, NJ NY022, CT PH-0170, MA AA000170

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
FRB-10 032108438-0010	ROOF/ WEST SIDE OF ROOF - ROOF FLASHING PERIMETER	Black Fibrous Homogeneous	7% Cellulose	5% Quartz 3% Mica 60.0% Non-fibrous (Other)	25% Chrysotile
FRB-11 032108438-0011	ROOF/ WEST SIDE OF ROOF - ROOF FLASHING PERIMETER				Positive Stop (Not Analyzed)
FRB-12 032108438-0012	ROOF/ WEST SIDE OF ROOF - ROOF FLASHING PERIMETER				Positive Stop (Not Analyzed)

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