



September 1, 2023

Ms. Lori Morris
Memphis Shelby County Airport Authority
2491 Winchester Road, Suite 113
Memphis, TN 38116

**RE: Asbestos Survey
Memphis International Airport
Cargo Building #4 Roof
2491 Winchester Road
Memphis, TN 38118**

Dear Ms. Morris,

At your request, Tioga Environmental Consultants, Inc. (Tioga) performed a survey of the above-referenced Property to identify the presence of asbestos. Specifically, a limited asbestos survey was performed to identify asbestos containing materials present on the roof of the Property. The purpose of this survey was to ensure that none of these materials, if present, would have an adverse environmental impact due to renovation activity within the existing facility.

On August 21, 2023, Donald White and Velita Thornton, EPA/AHERA Asbestos Inspectors, surveyed the Property. The findings of the survey are contained in the attached report.

If you have any questions about our report or we may be of further service, please contact me at (901) 791-2432.

Sincerely,
TIOGA ENVIRONMENTAL CONSULTANTS, INC.

A handwritten signature in blue ink that reads "Velita Thornton".

Velita Thornton
Biologist / Environmental Scientist

Down-to-earth partners. Sky's-the-limit solutions.



Asbestos Survey-Cargo Building #4 Roof

**2491 Winchester Road
Memphis, Shelby County, Tennessee**

September 2023

Project No. 221425.00

Prepared For:

Memphis Shelby County Airport Authority
2491 Winchester Road, Suite 113
Memphis, TN 38116

Prepared By:



357 North Main St.
Memphis, Tennessee 38103

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1.0 PROJECT SUMMARY

Memphis Shelby County Airport Authority (MSCAA) requested Tioga Environmental Consultants, Inc. (Tioga) prepare a survey to identify Asbestos Containing Materials (ACM) present at the building structure addressed as 2491 Winchester Road in Memphis, Shelby County, Tennessee.

The survey was performed on August 21, 2023, by Donald White and Velita Thornton, EPA/AHERA Asbestos Inspectors.

1.1 Facility Description

The property, located at 2491 Winchester Road, consists of cargo buildings 3 and 4. The buildings are occupied by Delta Cargo, KLM Cargo, and Swissport fueling, and functions as a sorting and storage facility. Cargo building 3 was not included in this survey.

The building is a two-story brick and concrete structure with a loading zone on the east and west sides of the building. This building has a built-up roofing (BUR) system with a pebble top layer. The interior of the building was not assessed.

At the time of this survey, the property was being used as a cargo sorting and storage warehouse for Delta and KLM.

1.2 Scope of Services

Per the authorization of Memphis Shelby County Airport Authority, Tioga conducted a roof survey of 2491 Winchester Road in accordance with the following scope of work:

Asbestos Survey

- The roof of the Property was visually surveyed and samples of suspect asbestos containing materials (ACM) were collected by a State of Tennessee Certified Asbestos Inspector.
- A minimum of three samples were collected from each homogenous area. These samples were delivered to a NVLAP certified laboratory for analysis by polarized light microscopy (PLM).
- Existing drawings were used to mark sample locations and the extent of ACM, then converted into digital floor plans and attached to the report.

Reporting

- Tioga has prepared an Asbestos Survey Report containing site observations, chain-of-custody, sample results including types and locations of ACM, a photographic log, and site plans noting sample locations, as well as locations of asbestos containing materials.

1.3 Significant Assumptions

No significant assumptions were made regarding the survey of Cargo Roof #4.

1.4 Deviations

No deviations from the agreed upon scope of services occurred during the performance of this survey.

1.5 Inaccessible Areas

The survey was limited to the roof of Cargo building #4. All areas of the roof were accessible at the time of the survey.

1.6 Limitations and Exceptions of Survey

The scope of this survey was limited to accessible materials only.

This survey report is not intended as an asbestos abatement specification document. Contractors or consultants should independently verify the location, condition and/or estimated quantities of asbestos containing materials as a component of their preparation of remediation bid documents.

2.0 ASBESTOS

The asbestos inspection was performed on August 21, 2023, by Donald White and Velita Thornton of Tioga Environmental Consultants, Inc., State of Tennessee Certified Asbestos Inspectors, Certification Numbers A-I-183409-135425 and A-I-125234-135735, respectively. A copy of each of these certifications is included in Appendix 1.

Additionally, Tioga Environmental Consultants, Inc. is a State of Tennessee certified Asbestos Activities firm, Certification Number A-F-718-118880. A copy of this certification is also included in Appendix 1.

This survey was requested by Memphis Shelby County Airport Authority for the purpose of having a document that identifies and documents the presence of, and estimates the quantities of, any asbestos-containing materials (ACM) on the roof of Cargo Building #4, located at 2491 Winchester Road in Memphis, Tennessee. Additionally, completing this survey provides necessary documentation ensuring compliance with the U.S. Environmental Protection Agency (EPA), Tennessee Department of Environment & Conservation (TDEC), and Occupational Safety and Health Administration (OSHA) regulations. It is also essential information when considering any renovation or demolition activities in areas with identified ACM to ensure compliance with National Emission Standards for Hazardous Air Pollutants (NESHAP) and OSHA regulations.

During the inspection, the inspector collected thirty-one individual samples from nine different homogeneous areas and received a result for each individual material sampled. This report documents the findings of this asbestos survey. The details regarding this survey and a list of sampled materials are contained in Section 2.3 of this Report. ACM was identified, and the following summary in Table 1 provides an overview of the findings.

Table 1
2491 Winchester Road
CONFIRMED ASBESTOS CONTAINING MATERIALS

Sample Number	Material	Estimated Quantity	Location/Condition
CR4-01	BUR Core	19,938 ft ²	Cargo Roof #4 / Good
CR4-02	White Liquid Roof Patch	123 ft ²	Cargo Roof #4 / Good
CR4-03	Gray Flashing	80 Ln. Ft	Cargo Roof #4 / Good
CR4-07	Gray Seam Caulk	5 Ln. Ft	Cargo Roof #4 / Good
CR4-08	Black Penetration Caulk	5 Ln. Ft	Cargo Roof #4 / Good
CR4-09	Gray Rolled Roofing with Black Tar	117 ft ²	Cargo Roof #4 / Good

Notes: ft² = Square Feet
Ln. Ft=Linear Feet

2.1 Visual Observations

Tioga personnel conducted an examination of the roof of 2491 Winchester Road to identify suspect ACM. Observations included the type, condition, location, and estimated quantity of any suspect ACM.

Additionally, all suspect materials were evaluated for condition and friability, the ease with which the materials can be crushed with hand pressure. Asbestos materials determined to be friable, or that could be rendered friable during renovation activities are considered Regulated Asbestos Containing Materials (RACM) that must be removed prior to renovation or demolition.

2.2 Asbestos Sampling

Asbestos has been a widely used component of building materials throughout history due to its unique physical properties: poor heat and electrical conductor, fire resistance, and high tensile strength and low cost. Unfortunately, asbestos also poses potentially serious health concerns for people exposed to the material. Knowing where and how much ACM is in a building allows for proper managing of site activities and providing appropriate protection for building occupants and workers involved in maintenance, renovation, or demolition of asbestos containing materials.

This survey was conducted in general conformance with Asbestos Hazard Emergency Response Act (AHERA) and ASTM Standard E2356-18. It included a walkthrough of all accessible areas to identify suspect asbestos-containing materials, quantification of material amounts, collection of samples from each homogenous area, and assessment per functional space.

For this facility, homogeneous areas of suspect Asbestos-Containing Materials (ACM) were defined for each material type sampled. A total of nine homogeneous areas were identified and sampled. In each homogeneous area, Tioga identified, differentiated and sampled suspect materials based on color (i.e. color tar or flashing), texture, and apparent application date. For samples with multiple layers (i.e. roofing material, flashing, etc.), the laboratory assigns unique sample numbers designated with an A, B, C, and D to identify each layer.

Having identified the homogeneous areas, samples were collected from each for laboratory analysis. Photographs of each material type sampled are included in the Photographic Log in Appendix 2.

2.3 Asbestos Findings

All samples were transported via FedEx to Eurofins CEI, an NVLAP certified laboratory, for PLM analysis on August 21, 2023. Results were received on August 23, 2023. Materials identified containing greater than one percent (1%) asbestos are considered asbestos containing. A copy of the laboratory report is included in Appendix 4.

The laboratory analysis for samples collected as part of this survey found six building materials containing greater than one percent (1%) asbestos. Table 2 summarizes the

homogenous areas and materials sampled during this inspection as well as the results of the analysis.

Table 2

2491 Winchester Road ASBESTOS SAMPLE LOG SUMMARY			
Material	Homogeneous Area Number	Sample Numbers	Results
BUR Core	CR4-01	A	Black BUR Core - Chrysotile 3% White, Gold BUR Core – None Detected
		B	Black BUR Core - Chrysotile 3% White, Gold BUR Core – None Detected
		C	Black BUR Core - Chrysotile 3% White, Gold BUR Core – None Detected
		D	Black BUR Core - Chrysotile 3% White, Gold BUR Core – None Detected
		E	Black BUR Core - Chrysotile 3% White, Gold BUR Core – None Detected
		F	Black BUR Core - Chrysotile 3% White, Gold BUR Core – None Detected
		G	Black BUR Core - Chrysotile 3%
White Liquid Roof Patch	CR4-02	A	White Roof Patch Core – None Detected Black Roof Patch Core - Chrysotile 3% White, Gold Roof Patch Core– None Detected
		B	White Roof Patch Core – None Detected Black Roof Patch Core - Chrysotile 3% White, Gold Roof Patch Core– None Detected
		C	White Roof Patch Core – None Detected Black Roof Patch Core - Chrysotile 3% White, Gold Roof Patch Core– None Detected
Gray Flashing	CR4-03	A	Gray, Black Flashing - Chrysotile 10%
		B	Gray, Black Flashing - Chrysotile 10%
		C	Silver Paint - Chrysotile 2% Black Flashing – Chrysotile 2%
Expansion Joint	CR4-04	A	None Detected
		B	None Detected
		C	None Detected
White Parapet Caulk	CR4-05	A	None Detected
		B	None Detected
		C	None Detected
Black Liquid Flashing	CR4-06	A	None Detected
		B	None Detected
		C	None Detected
Gray Seam Caulk	CR4-07	A	Black, Gray Seam Caulk - Chrysotile 10%
		B	Gray Seam Caulk - None Detected
		C	Black, Gray Seam Caulk - Chrysotile 10%
Black Penetration Caulk	CR4-08	A	Black Penetration Caulk - None Detected
		B	Black Penetration Caulk - Chrysotile 3%
		C	Black Penetration Caulk - Chrysotile 3%
Gray Rolled Roofing with Black Tar	CR4-09	A	Black Rolled Roofing Core - Chrysotile 2% Gray Rolled Roofing Core – None Detected
		B	Black Rolled Roofing Core - Chrysotile 2% Gray Rolled Roofing Core – None Detected
		C	Black Rolled Roofing Core - Chrysotile 2% Gray Rolled Roofing Core – None Detected

Notes: **Green** = Homogenous Areas positive for ACM
Red = Positive ACM samples identified by certified laboratory

A drawing in Appendix 3 shows the sample locations and the locations of ACM at the Property.

There are three major categories used to classify asbestos-containing materials (ACM) found in buildings: Surfacing Materials, Thermal System Insulation (TSI), and Miscellaneous Materials. Materials in these broad categories are further classified as either friable or non-friable. Friable materials are materials that can be reduced to powder from hand pressure and may become an inhalation hazard. Non-friable asbestos materials are classified as either Category I or Category II Material.

Category I material is defined as asbestos-containing resilient floor covering, asphalt roofing products, packings and gaskets. Asbestos-containing mastic is also considered a Category I material (EPA determination – April 9, 1991). Category II material is defined as all remaining types of non-friable ACM not included in Category I that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure. Non-friable asbestos-cement products such as transite are an example of Category II material.

Table 3 below identifies homogenous areas within the Property that are positive for asbestos along with the category and location of each. The summary and recommendations related to these ACM Findings are included in Section 4.1.

Table 3

2491 Winchester Road CONFIRMED ASBESTOS CONTAINING MATERIALS					
Sample Number	Material	Estimated Quantity	Category Friable	Location/Condition	Figure
CR4-01	BUR Core	19,938 ft ²	Category I Non-Friable	Cargo Roof #4 / Good	1
CR4-02	White Liquid Roof Patch	123 ft ²	Category I Non-Friable	Cargo Roof #4 / Good	1
CR4-03	Gray Flashing	80 Ln Ft	Category I Non-Friable	Cargo Roof #4 / Good	1
CR4-07*	Gray Seam Caulk	5 Ln. Ft	Category I Non-Friable	Cargo Roof #4 / Good	1
CR4-08*	Black Penetration Caulk	5 Ln. Ft	Category I Non-Friable	Cargo Roof #4 / Good	1
CR4-09	Gray Rolled Roofing with Black Tar	117 ft ²	Category I Non-Friable	Cargo Roof #4 / Good	1

Note: * = In this case the caulks are considered Category I as they are part of the roofing system.

3.0 SUMMARY AND RECOMMENDATIONS

3.1 Asbestos

All materials identified as asbestos containing should be maintained in good condition to avoid potential fiber release due to disturbance. In the event of demolition, the State of Tennessee and NESHAP require that all friable ACM and non-friable ACM that could become friable during renovation or demolition activities must be removed by a certified Asbestos Abatement Contractor prior to disturbance.

In all instances, non-certified personnel should not disturb or attempt removal of any of the asbestos-containing materials identified in this survey. OSHA regulation 29 CFR 1926.1101 requires that a qualified, certified Asbestos Abatement Contractor must be retained to perform abatement of ACM prior to demolition or renovation activities at the Property. At no time are non-certified personnel allowed to disturb or remove ACM.

It is recommended that any Asbestos Abatement Contractor retained to perform abatement activities at the facility should be required to maintain proper engineering control measures prior to and during the disturbance of all ACM to ensure protection of human health and safety for personnel involved with this project. These control measures are also required for the protection of the surrounding environment by preventing the possibility of contamination outside of the abatement areas. Appropriate area air and/or personnel monitoring during the removal of these materials must be conducted as per federal, state, and local regulations.

The following recommendations are based on the findings as identified in Section 2.3 and are in general conformance with the State of Tennessee, EPA, NESHAP and OSHA requirements:

- The asbestos containing BUR Roofing, White Liquid Roof Patch, Gray Flashing, and Gray Rolled Roofing with Black Tar are non-friable Category I materials. The State of Tennessee and NESHAP require that non-friable ACM that could become friable during renovation activities must be removed prior to disturbance. Since these materials may be rendered friable during renovation activities, they must be removed by an asbestos abatement contractor prior to being disturbed by renovation activities. These materials can be disposed of at a landfill that accepts asbestos waste. Asbestos waste manifest should be kept for records.
- The asbestos containing Seam and Penetration Caulks are non-friable Category I materials as they are considered part of the roofing system. Since these materials may be rendered friable during renovation activities, they must be removed by an asbestos abatement contractor prior to being disturbed by renovation activities. These materials can be disposed of at a landfill that accepts asbestos waste. Asbestos waste manifest should be kept for records.
- In all instances, non-certified personnel should not disturb or attempt removal of any of the asbestos-containing materials identified in this survey. OSHA regulation 29 CFR 1926.1101 requires that a qualified, certified Asbestos Abatement Contractor must be retained to perform abatement of ACM prior to renovation activities at the Property. At no time are non-certified personnel allowed to disturb or remove ACM.

- Per the EPA *Applicability of The Asbestos NESHAP to Asbestos Roofing Removal Operations Guidance Manual*, dated August 1994, use of removal methods that sand, grind, cut, or abrade ACM are prohibited. Work practices including wet removal methods, manual removal methods, and utilizing modified Rotating Blade (RB) roof cutting machines equipped with spray nozzle and HEPA vacuum systems must be implemented to control and minimize visible dust emissions. Additionally, since power plows and power slicers do not sand, grind, cut, or abrade roofing materials, their use is permitted and not subject to asbestos NESHAP regulations.
- If suspect materials are identified under roofing material, not sampled, or in any other accessible or inaccessible areas during renovation, additional testing should be performed to verify that these materials do not contain asbestos.

Appendix 1
Certifications and Licenses



THE STATE OF TENNESSEE

Department of Environment and Conservation Division of Solid Waste Management
Toxic Substances Program

William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 14th Floor Nashville TN 37243

By virtue of the authority vested by the Division of Solid Waste Management, the
Company named below is hereby accredited to offer and/or conduct Asbestos activities
pursuant to Rule 1200-01-20:

Tioga Environmental Consultants, Inc.

357 N. Main Street Memphis TN, 38103

to conduct ASBESTOS ACTIVITIES in schools or public and commercial buildings in Tennessee.
This firm is responsible for compliance with the applicable requirements of Rule 1200-01-20.

Discipline	Type	Accreditation Number	Effective Date	Expiration Date
Accreditation	Re-Accreditation	A-F-718-131368	October 21, 2022	December 31, 2023



Given under the Seal of the State of Tennessee in Nashville.

This 21st Day of October 2022

Division of Solid Waste Management
Toxic Substance Program

CN-1324 (Rev 6/13)

RDA-3020

THE STATE OF TENNESSEE

Department of Environment and Conservation
Division of Solid Waste Management
Toxic Substances Program

Velita M Thornton

DOB: 18-Feb-1991 Sex: F HGT: 5' 5" WGT: 160

Discipline	Accreditation	Expiration
Inspector	A-I-125234-135735	May-31-2024

116390-79811



Issued: 8/30/2023

Re-Accreditation

Asbestos Accreditation



Is hereby Accredited pursuant to Rule 1200-01-20 Asbestos Accreditation Requirements to perform Asbestos Activities associated with the Discipline(s) listed on the front of this card.

A false statement pertaining to accreditation(s) is subject to the penalties of perjury.

Date Issued: 8/30/2023

Note: In order for this Tennessee issued accreditation to remain valid through the expiration date, the individual must maintain current applicable accredited asbestos refresher training course(s)

THIS CARD IS NOT TO BE USED FOR ANY OTHER IDENTIFICATION PURPOSES. IF FOUND, RETURN TO:

Department of Environment and Conservation
Division of Solid Waste Management
Toxic Substances Program
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 14th Floor
Nashville TN 37243

1796

CN-1324

(Rev 6/13)

RDA-3078

THE STATE OF TENNESSEE

Department of Environment and Conservation
Division of Solid Waste Management
Toxic Substances Program

134443-79325



Initial

Donald L White

DOB	Sex	HGT	WGT
25-May-1990	M	5' 9"	210
Discipline	Accreditation	Expiration	
Inspector	A-I-183409-136425	Apr-30-2024	
Project Monitor	A-PM-183409-129323	Jun-30-2023	

Asbestos Accreditation

Appendix 2 Photographic Log



Tioga

ENVIRONMENTAL CONSULTANTS

PHOTOGRAPHIC LOG

Client Name: MSCAA

Site Location: Roof of Cargo Building #4, 2491
Winchester Road, Memphis, TN

Project No.
221425.00

Photo #

1

Date:

08/21/2023

Description:

Overview of the roof of
Cargo Building #4



Photo #

2

Date:

08/21/2023

Description:

CR4-01: BUR Core

**Tested Positive for
Asbestos**





Tioga

ENVIRONMENTAL CONSULTANTS

PHOTOGRAPHIC LOG

Client Name: MSCAA

Site Location: Roof of Cargo Building #4, 2491
Winchester Road, Memphis, TN

Project No.
221425.00

Photo #
3

Date:
08/21/2023

Description:

CR4-02: White Liquid
Roof Patch

**Tested Positive for
Asbestos**



Photo #
4

Date:
08/21/2023

Description:

CR4-03: Gray Flashing

**Tested Positive for
Asbestos**





Client Name: MSCAA

Site Location: Roof of Cargo Building #4, 2491
Winchester Road, Memphis, TN

Project No.
221425.00

Photo #
5

Date:
08/21/2023

Description:

CR4-04: Expansion
Joint

Tested Negative for
Asbestos



Photo #
6

Date:
08/21/2023

Description:

CR4-05: White Parapet
Caulk

Tested Negative for
Asbestos





Client Name: MSCAA

Site Location: Roof of Cargo Building #4, 2491
Winchester Road, Memphis, TN

Project No.
221425.00

Photo #
7

Date:
08/21/2023

Description:

CR4-06: Black Liquid
Flashing

Tested Negative for
Asbestos



Photo #
8

Date:
08/21/2023

Description:

CR4-07: Gray Seam
Caulk

Tested Positive for
Asbestos





Tioga

ENVIRONMENTAL CONSULTANTS

PHOTOGRAPHIC LOG

Client Name: MSCAA

Site Location: Roof of Cargo Building #4, 2491
Winchester Road, Memphis, TN

Project No.
221425.00

Photo #
9

Date:
08/21/2023

Description:

CR4-08: Black
Penetration Caulk

Tested Positive for
Asbestos



Photo #
10

Date:
08/21/2023

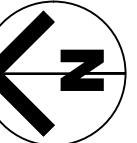
Description:

CR4-09: Gray Rolled
Roofing with Black Tar

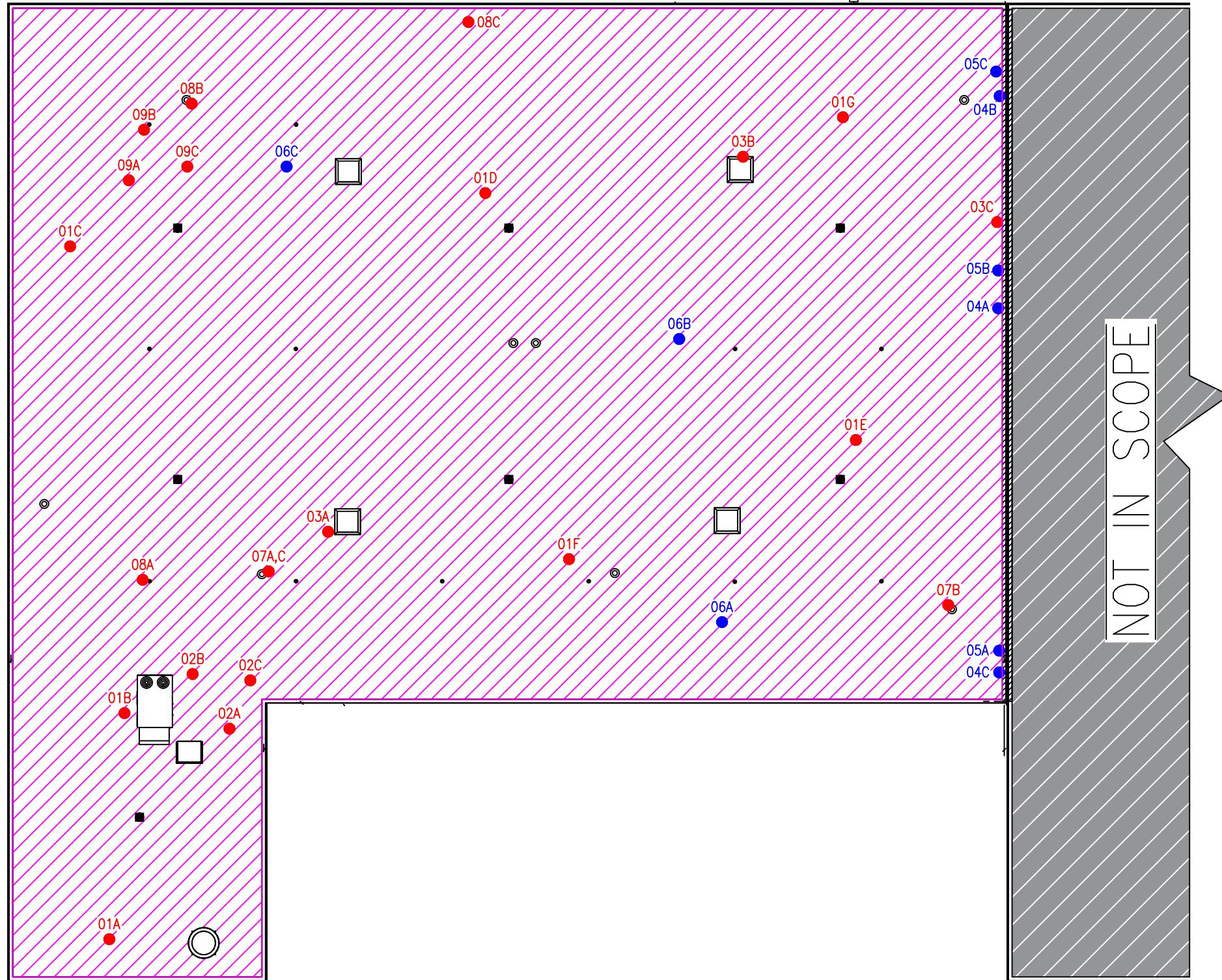
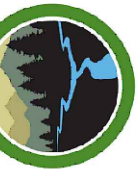
Tested Positive for
Asbestos



Appendix 3 Figures



NOT TO SCALE



NOT IN SCOPE

SAMPLE SERIES: CR4-
LEGEND

- 01A = POSITIVE ACM LOCATION
- 01A = NEGATIVE ACM LOCATION
- = ACM ROOFING MATERIALS
(INCLUDING BLACK BUR, WHITE ROOF PATCH, BLACK/GRAY FLASHING, SILVER PAINT, BLACK FLASHING, BLACK/GRAY SEAM CAULK, GRAY SEAM CAULK, BLACK PENETRATION CAULK, AND BLACK ROLLED ROOFING)

Appendix 4
Asbestos Laboratory Results and Chain of Custody

August 23, 2023

Tioga Environmental Consultants
357 North Main Street
Memphis, TN 38103

CLIENT PROJECT: MSCAA Cargo 4 Roof, 221425.00
CEI LAB CODE: B2318001

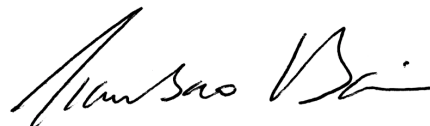
Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on August 22, 2023. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% asbestos by weight as determined by visual estimation.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,



Tianbao Bai, Ph.D., CIH
Laboratory Director



CEI

ASBESTOS ANALYTICAL REPORT

By: Polarized Light Microscopy

Prepared for

Tioga Environmental Consultants

CLIENT PROJECT: MSCAA Cargo 4 Roof, 221425.00

LAB CODE: B2318001

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 08/23/23

TOTAL SAMPLES ANALYZED: 31

SAMPLES >1% ASBESTOS: 21



CEI

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: MSCAA Cargo 4 Roof, 221425.00

LAB CODE: B2318001

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
CR4-01A	Layer 1	B2318001.01	Black	Bur Core	Chrysotile 3%
	Layer 2	B2318001.01	White,Gold	Bur Core	None Detected
CR4-01B	Layer 1	B2318001.02	Black	Bur Core	Chrysotile 3%
	Layer 2	B2318001.02	White,Gold	Bur Core	None Detected
CR4-01C	Layer 1	B2318001.03	Black	Bur Core	Chrysotile 3%
	Layer 2	B2318001.03	White,Gold	Bur Core	None Detected
CR4-01D	Layer 1	B2318001.04	Black	Bur Core	Chrysotile 3%
	Layer 2	B2318001.04	White,Gold	Bur Core	None Detected
CR4-01E	Layer 1	B2318001.05	Black	Bur Core	Chrysotile 3%
	Layer 2	B2318001.05	White,Gold	Bur Core	None Detected
CR4-01F	Layer 1	B2318001.06	Black	Bur Core	Chrysotile 3%
	Layer 2	B2318001.06	White,Gold	Bur Core	None Detected
CR4-01G		B2318001.07	Black	Bur Core	Chrysotile 3%
CR4-02A	Layer 1	B2318001.08	White	Roof Patch Core	None Detected
	Layer 2	B2318001.08	Black	Roof Patch Core	Chrysotile 3%
	Layer 3	B2318001.08	White,Gold	Roof Patch Core	None Detected
CR4-02B	Layer 1	B2318001.09	White	Roof Patch Core	None Detected
	Layer 2	B2318001.09	Black	Roof Patch Core	Chrysotile 3%
	Layer 3	B2318001.09	White,Gold	Roof Patch Core	None Detected
CR4-02C	Layer 1	B2318001.10	White	Roof Patch Core	None Detected
	Layer 2	B2318001.10	Black	Roof Patch Core	Chrysotile 3%
	Layer 3	B2318001.10	White,Gold	Roof Patch Core	None Detected
CR4-03A		B2318001.11	Gray,Black	Flashing	Chrysotile 10%
CR4-03B		B2318001.12	Gray,Black	Flashing	Chrysotile 10%
CR4-03C	Layer 1	B2318001.13	Silver	Silver Paint	Chrysotile 2%
	Layer 2	B2318001.13	Black	Flashing	Chrysotile 2%
CR4-04A		B2318001.14	Black	Expansion Joint	None Detected
CR4-04B		B2318001.15	Black	Expansion Joint	None Detected
CR4-04C		B2318001.16	Black	Expansion Joint	None Detected
CR4-05A		B2318001.17	White	Parapet Caulk	None Detected
CR4-05B		B2318001.18	White	Parapet Caulk	None Detected



CEI

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: MSCAA Cargo 4 Roof, 221425.00

LAB CODE: B2318001

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
CR4-05C		B2318001.19	White	Parapet Caulk	None Detected
CR4-06A		B2318001.20	Black	Liquid Flashing	None Detected
CR4-06B		B2318001.21	Black	Liquid Flashing	None Detected
CR4-06C		B2318001.22	Black	Liquid Flashing	None Detected
CR4-07A		B2318001.23	Black,Gray	Seam Caulk	Chrysotile 10%
CR4-07B		B2318001.24	Gray	Seam Caulk	None Detected
CR4-07C		B2318001.25	Black,Gray	Seam Caulk	Chrysotile 10%
CR4-08A		B2318001.26	Black	Penetration Caulk	None Detected
CR4-08B		B2318001.27	Black	Penetration Caulk	Chrysotile 3%
CR4-08C		B2318001.28	Black	Penetration Caulk	Chrysotile 3%
CR4-09A	Layer 1	B2318001.29	Black	Rolled Roofing Core	Chrysotile 2%
	Layer 2	B2318001.29	Gray	Rolled Roofing Core	None Detected
CR4-09B	Layer 1	B2318001.30	Black	Rolled Roofing Core	Chrysotile 2%
	Layer 2	B2318001.30	Gray	Rolled Roofing Core	None Detected
CR4-09C	Layer 1	B2318001.31	Black	Rolled Roofing Core	Chrysotile 2%
	Layer 2	B2318001.31	Gray	Rolled Roofing Core	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Tioga Environmental Consultants
357 North Main Street
Memphis, TN 38103

Lab Code: B2318001
Date Received: 08-22-23
Date Analyzed: 08-23-23
Date Reported: 08-23-23

Project: MSCAA Cargo 4 Roof, 221425.00

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous	Cellulose	Non-Fibrous		
CR4-01A Layer 1 B2318001.01	Bur Core	Heterogeneous Black Non-fibrous Bound	10%	Cellulose	87%	Tar	3% Chrysotile
	Layer 2 B2318001.01	Heterogeneous White,Gold Fibrous Bound	2%	Cellulose	88%	Gypsum 10% Vermiculite	None Detected
CR4-01B Layer 1 B2318001.02	Bur Core	Heterogeneous Black Non-fibrous Bound	10%	Cellulose	87%	Tar	3% Chrysotile
	Layer 2 B2318001.02	Heterogeneous White,Gold Fibrous Bound	2%	Cellulose	88%	Gypsum 10% Vermiculite	None Detected
CR4-01C Layer 1 B2318001.03	Bur Core	Heterogeneous Black Non-fibrous Bound	10%	Cellulose	87%	Tar	3% Chrysotile
	Layer 2 B2318001.03	Heterogeneous White,Gold Fibrous Bound	2%	Cellulose	88%	Gypsum 10% Vermiculite	None Detected
CR4-01D Layer 1 B2318001.04	Bur Core	Heterogeneous Black Non-fibrous Bound	10%	Cellulose	87%	Tar	3% Chrysotile



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ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Tioga Environmental Consultants
357 North Main Street
Memphis, TN 38103

Lab Code: B2318001
Date Received: 08-22-23
Date Analyzed: 08-23-23
Date Reported: 08-23-23

Project: MSCAA Cargo 4 Roof, 221425.00

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
Layer 2 B2318001.04	Bur Core	Heterogeneous White,Gold Fibrous Bound	2%	Cellulose	88%	Gypsum 10% Vermiculite	None Detected
CR4-01E Layer 1 B2318001.05	Bur Core	Heterogeneous Black Non-fibrous Bound	10%	Cellulose	87%	Tar	3% Chrysotile
Layer 2 B2318001.05	Bur Core	Heterogeneous White,Gold Fibrous Bound	2%	Cellulose	88%	Gypsum 10% Vermiculite	None Detected
CR4-01F Layer 1 B2318001.06	Bur Core	Heterogeneous Black Non-fibrous Bound	10%	Cellulose	87%	Tar	3% Chrysotile
Layer 2 B2318001.06	Bur Core	Heterogeneous White,Gold Fibrous Bound	2%	Cellulose	88%	Gypsum 10% Vermiculite	None Detected
CR4-01G B2318001.07	Bur Core	Heterogeneous Black Non-fibrous Bound	10%	Cellulose	87%	Tar	3% Chrysotile
CR4-02A Layer 1 B2318001.08	Roof Patch Core	Homogeneous White Non-fibrous Bound			100%	Caulk	None Detected



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ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Tioga Environmental Consultants
357 North Main Street
Memphis, TN 38103

Lab Code: B2318001
Date Received: 08-22-23
Date Analyzed: 08-23-23
Date Reported: 08-23-23

Project: MSCAA Cargo 4 Roof, 221425.00

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
Layer 2 B2318001.08	Roof Patch Core	Homogeneous Black Non-fibrous Bound	10%	Cellulose	87%	Tar	3% Chrysotile
Layer 3 B2318001.08	Roof Patch Core	Heterogeneous White,Gold Fibrous Bound	2%	Cellulose	88%	Gypsum 10% Vermiculite	None Detected
CR4-02B Layer 1 B2318001.09	Roof Patch Core	Homogeneous White Non-fibrous Bound			100%	Caulk	None Detected
Layer 2 B2318001.09	Roof Patch Core	Homogeneous Black Non-fibrous Bound	10%	Cellulose	87%	Tar	3% Chrysotile
Layer 3 B2318001.09	Roof Patch Core	Heterogeneous White,Gold Fibrous Bound	2%	Cellulose	88%	Gypsum 10% Vermiculite	None Detected
CR4-02C Layer 1 B2318001.10	Roof Patch Core	Homogeneous White Non-fibrous Bound			100%	Caulk	None Detected
Layer 2 B2318001.10	Roof Patch Core	Homogeneous Black Non-fibrous Bound	10%	Cellulose	87%	Tar	3% Chrysotile

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Tioga Environmental Consultants
 357 North Main Street
 Memphis, TN 38103

Lab Code: B2318001
Date Received: 08-22-23
Date Analyzed: 08-23-23
Date Reported: 08-23-23

Project: MSCAA Cargo 4 Roof, 221425.00

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
Layer 3 B2318001.10	Roof Patch Core	Heterogeneous White,Gold Fibrous Bound	2%	Cellulose	88%	Gypsum 10% Vermiculite	None Detected
CR4-03A B2318001.11	Flashing	Heterogeneous Gray,Black Non-fibrous Bound	10%	Cellulose	80%	Tar	10% Chrysotile
CR4-03B B2318001.12	Flashing	Heterogeneous Gray,Black Non-fibrous Bound	10%	Cellulose	80%	Tar	10% Chrysotile
CR4-03C Layer 1 B2318001.13	Silver Paint	Heterogeneous Silver Non-fibrous Bound			78%	Paint 20% Tar	2% Chrysotile
Layer 2 B2318001.13	Flashing	Heterogeneous Black Non-fibrous Bound	2%	Cellulose	96%	Tar	2% Chrysotile
CR4-04A B2318001.14	Expansion Joint	Homogeneous Black Non-fibrous Tightly Bound			100%	Rubber	None Detected
CR4-04B B2318001.15	Expansion Joint	Homogeneous Black Non-fibrous Tightly Bound			100%	Rubber	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Tioga Environmental Consultants
 357 North Main Street
 Memphis, TN 38103

Lab Code: B2318001
Date Received: 08-22-23
Date Analyzed: 08-23-23
Date Reported: 08-23-23

Project: MSCAA Cargo 4 Roof, 221425.00

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %
			Fibrous	Non-Fibrous		
CR4-04C B2318001.16	Expansion Joint	Homogeneous Black Non-fibrous Tightly Bound	100%	Rubber		None Detected
CR4-05A B2318001.17	Parapet Caulk	Homogeneous White Non-fibrous Bound	100%	Caulk		None Detected
CR4-05B B2318001.18	Parapet Caulk	Homogeneous White Non-fibrous Bound	100%	Caulk		None Detected
CR4-05C B2318001.19	Parapet Caulk	Homogeneous White Non-fibrous Bound	100%	Caulk		None Detected
CR4-06A B2318001.20	Liquid Flashing	Heterogeneous Black Non-fibrous Bound	<1%	Cellulose	100%	Tar None Detected
CR4-06B B2318001.21	Liquid Flashing	Heterogeneous Black Non-fibrous Bound	10%	Cellulose	90%	Tar None Detected
CR4-06C B2318001.22	Liquid Flashing	Heterogeneous Black Non-fibrous Bound	<1%	Cellulose	100%	Tar None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Tioga Environmental Consultants
 357 North Main Street
 Memphis, TN 38103

Lab Code: B2318001
Date Received: 08-22-23
Date Analyzed: 08-23-23
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Project: MSCAA Cargo 4 Roof, 221425.00

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
CR4-07A B2318001.23	Seam Caulk	Heterogeneous Black, Gray Non-fibrous Bound	90%		Tar		10% Chrysotile
CR4-07B B2318001.24	Seam Caulk	Heterogeneous Gray Non-fibrous Bound	100%		Caulk Silicates		None Detected
CR4-07C B2318001.25	Seam Caulk	Heterogeneous Black, Gray Non-fibrous Bound	90%		Tar		10% Chrysotile
CR4-08A B2318001.26	Penetration Caulk	Heterogeneous Black Non-fibrous Bound	10%	Cellulose	90%	Tar	None Detected
CR4-08B B2318001.27	Penetration Caulk	Heterogeneous Black Non-fibrous Bound	3%	Cellulose	94%	Tar	3% Chrysotile
CR4-08C B2318001.28	Penetration Caulk	Heterogeneous Black Non-fibrous Bound	3%	Cellulose	94%	Tar	3% Chrysotile
CR4-09A Layer 1 B2318001.29	Rolled Roofing Core	Heterogeneous Black Non-fibrous Bound	10% 2%	Cellulose Fiberglass	86%	Tar	2% Chrysotile



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ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Tioga Environmental Consultants
357 North Main Street
Memphis, TN 38103

Lab Code: B2318001
Date Received: 08-22-23
Date Analyzed: 08-23-23
Date Reported: 08-23-23

Project: MSCAA Cargo 4 Roof, 221425.00

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
Layer 2 B2318001.29	Rolled Roofing Core	Heterogeneous Gray Fibrous Loosely Bound	2%	Cellulose	88%	Gypsum 10% Vermiculite	None Detected
CR4-09B Layer 1 B2318001.30	Rolled Roofing Core	Heterogeneous Black Non-fibrous Bound	10% 2%	Cellulose Fiberglass	86%	Tar	2% Chrysotile
Layer 2 B2318001.30	Rolled Roofing Core	Heterogeneous Gray Fibrous Loosely Bound	2%	Cellulose	88%	Gypsum 10% Vermiculite	None Detected
CR4-09C Layer 1 B2318001.31	Rolled Roofing Core	Heterogeneous Black Non-fibrous Bound	10% 2%	Cellulose Fiberglass	86%	Tar	2% Chrysotile
Layer 2 B2318001.31	Rolled Roofing Core	Heterogeneous Gray Fibrous Loosely Bound	2%	Cellulose	88%	Gypsum 10% Vermiculite	None Detected

LEGEND: Non-Anth = Non-Asbestiform Anthophyllite
Non-Trem = Non-Asbestiform Tremolite
Calc Carb = Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORTING LIMIT: <1% by visual estimation

REPORTING LIMIT FOR POINT COUNTS: 0.25% by 400 Points or 0.1% by 1,000 Points

REGULATORY LIMIT: >1% by weight

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. *Estimated measurement of uncertainty is available on request.*

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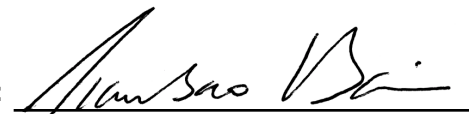
Information provided by customer includes customer sample ID and sample description.

ANALYST:



Nicholas Moore

APPROVED BY:



Tianbao Bai, Ph.D., CIH
Laboratory Director





CEI

CHAIN OF CUSTODY

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730 SE Maynard Road, Cary, NC 27511
 Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY:	
CEI Lab Code:	B2318001
CEI Lab I.D. Range:	

COMPANY INFORMATION	PROJECT INFORMATION
CEI CLIENT #:	Job Contact: Joe Littlefield
Company: Tioga Environmental	Email / Tel: Jlittlefield@TiogaENV.com
Address: 357 N. Main Street Memphis, TN 38103	Project Name: <i>MSCAA Cargo #4 Roof</i>
	Project ID#: 221425.00
Email: Jlittlefield@TiogaENV.com	PO #:
Tel: 901-791-2432 Fax: 901-791-2442	STATE SAMPLES COLLECTED IN: TN

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	1 DAY	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM POINT COUNT (400)	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM POINT COUNT (1000)	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM GRAV w POINT COUNT	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM BULK	CARB 435	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PCM AIR	NIOSH 7400	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	EPA AHERA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	NIOSH 7402	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR (PCME)	ISO 10312	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	ASTM 6281-15	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM BULK	CHATFIELD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM DUST WIPE	ASTM D6480-05 (2010)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM DUST MICROVAC	ASTM D5755-09 (2014)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM SOIL	ASTM D7521-16	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM VERMICULITE	CINCINNATI METHOD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM QUALITATIVE	IN-HOUSE METHOD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OTHER:		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

REMARKS / SPECIAL INSTRUCTIONS:		<input checked="" type="checkbox"/> Accept Samples <input type="checkbox"/> Reject Samples	
Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	08-21-2023 16:38	<i>[Signature]</i>	8/22/23 9:30

Samples will be disposed of 30 days after analysis

7731 2192 5769

COMPANY CONTACT INFORMATION	
Company: Tioga Environmental	Job Contact: Joe Littlefield
Project Name: MSCAA Cargo #41 Roof	JLittlefield@TiogaENV.com
Project ID #: 221425.00	Tel: 901-791-2432

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
			PLM	TEM
CR4-01 A	BUR Core		<input checked="" type="checkbox"/>	<input type="checkbox"/>
↓ B	↓		<input checked="" type="checkbox"/>	<input type="checkbox"/>
↓ C	↓		<input checked="" type="checkbox"/>	<input type="checkbox"/>
↓ D	↓		<input checked="" type="checkbox"/>	<input type="checkbox"/>
↓ E	↓		<input checked="" type="checkbox"/>	<input type="checkbox"/>
↓ F	↓		<input checked="" type="checkbox"/>	<input type="checkbox"/>
↓ G	↓		<input checked="" type="checkbox"/>	<input type="checkbox"/>
CR4-02 A	White Liquid Roof Patch Core		<input checked="" type="checkbox"/>	<input type="checkbox"/>
↓ B	↓		<input checked="" type="checkbox"/>	<input type="checkbox"/>
↓ C	↓		<input checked="" type="checkbox"/>	<input type="checkbox"/>
CR4-03 A	Gray Flashing		<input checked="" type="checkbox"/>	<input type="checkbox"/>
↓ B	↓		<input checked="" type="checkbox"/>	<input type="checkbox"/>
↓ C	↓		<input checked="" type="checkbox"/>	<input type="checkbox"/>
CR4-04 A	Expansion Joint		<input checked="" type="checkbox"/>	<input type="checkbox"/>
↓ B	↓		<input checked="" type="checkbox"/>	<input type="checkbox"/>
↓ C	↓		<input checked="" type="checkbox"/>	<input type="checkbox"/>
CR4-05 A	White Parapet Caulk		<input checked="" type="checkbox"/>	<input type="checkbox"/>
↓ B	↓		<input checked="" type="checkbox"/>	<input type="checkbox"/>
↓ C	↓		<input checked="" type="checkbox"/>	<input type="checkbox"/>
CR4-06 A	Black Liquid Flashing		<input checked="" type="checkbox"/>	<input type="checkbox"/>
↓ B	↓		<input checked="" type="checkbox"/>	<input type="checkbox"/>
↓ C	↓		<input checked="" type="checkbox"/>	<input type="checkbox"/>
CR4-07 A	Gray Seam Caulk		<input checked="" type="checkbox"/>	<input type="checkbox"/>
↓ B	↓		<input checked="" type="checkbox"/>	<input type="checkbox"/>
↓ C	↓		<input checked="" type="checkbox"/>	<input type="checkbox"/>
CR4-08 A	Black Penetration Caulk		<input checked="" type="checkbox"/>	<input type="checkbox"/>
↓ B	↓		<input checked="" type="checkbox"/>	<input type="checkbox"/>
↓ C	↓		<input checked="" type="checkbox"/>	<input type="checkbox"/>

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SAMPLING FORM

CEI

COMPANY CONTACT INFORMATION	
Company: Tioga Environmental	Job Contact: Joe Littlefield
Project Name: <i>MSCAA Cargo #4 Roof</i>	JLittlefield@TiogaENV.com
Project ID #: <i>221425.00</i>	Tel: 901-791-2432

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
<i>CR4-09 A</i>	<i>Gray Rolled Roofing Core</i>		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
<i>↓ B</i>	<i>↓</i>		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
<i>↓ C</i>	<i>↓</i>		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
<i>END</i>	<i>—</i>		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
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			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>