

## Commonwealth Environmental Associates, Inc.

7411 Iron Bridge Rd. • Richmond, VA 23237 • 804.275.9320 • Fax: 804.275.9322

August 25, 2023

Food Lion, Inc. P.O. Box 1330 Salisbury, North Carolina 28144

Attn: Mr. Charles McLendon

RE: Asbestos Survey Findings Report

Store 2654

610 E. King Street

Kings Mountain, North Carolina

CEA Project No. 16323

#### Gentlemen:

Commonwealth Environmental Associates, Inc. (CEA) is pleased to submit this Asbestos Survey for the above referenced site. These services have been performed in accordance with our standard terms and limitations.

### Purpose of Study

To obtain representative samples of suspected asbestos containing materials (ACM) for laboratory analysis from Store 2654 located at 610 E. King Street in Kings Mountain, North Carolina, in anticipation of a possible future remodel.

### Scope of Services

Our scope of services for this project included the following:

- The identification and representative sampling of suspect asbestos building materials associated with the store structure by asbestos inspectors certified in North Carolina.
- Submission of samples to Eurofins CEI located in Cary, North Carolina for bulk asbestos analyses utilizing polarized light microscopy (PLM).
- Preparations of this findings report presenting identified asbestos containing materials, bulk asbestos analysis, pertinent QA/QC information and any conclusions and recommendations.

### **Asbestos Inspection**

CEA asbestos inspectors performed a site visit on June 9, 2023 to identify and collect samples of suspected asbestos containing materials (ACM) within Store 2654. CEA identified the sampling areas as homogenous and sampled accordingly. Materials identified and sampled in the study area included floor tile, floor tile mastic, drop ceiling tile, dry wall/joint compound, hardboard ceiling tile, caulking, ceramic tile grout, vinyl baseboard mastic, HVAC caulking and stucco. The white vinyl roof was not sampled per the client's request. The materials collected during this study and the associated laboratory analysis are presented as Table 1 in Attachment A. Materials noted at the site and not sampled during this study included plastics, natural wood products, silicon, foam, glass and concrete.

### <u>Laboratory Analysis</u>

CEA submitted the twenty-one (21) samples collected within the study area of Store 2654 to Eurofins CEI located in Cary, North Carolina for PLM analysis. Including the laboratory separated layers, twenty-seven (27) samples were analyzed during this study. Of the twenty-seven (27) samples analyzed, none were reported to contain asbestos. The EPA defines asbestos containing materials as any material containing 1% or greater asbestos fiber content. OSHA defines asbestos containing material as any material containing any detectable percentage of asbestos. Certificates of Analysis are presented as Attachment B. Sample locations are illustrated on the sample location map presented as Attachment C.

#### Conclusions and Recommendations

Based on CEA's inspection on June 9, 2023 of the area of Store 2654 slated for possible future renovation, and laboratory analysis of the suspected ACM samples collected at the site, asbestos was identified in none of the twenty-one (21) samples collected from the materials identified as suspect ACM and analyzed during this study.

Commonwealth Environmental Associates, Inc. appreciates the opportunity to provide limited asbestos inspection services for this project. If you should have any questions, please do not hesitate to contact our office at (804) 275-9320.

Sincerely,

COMMONWEALTH ENVIRONMENTAL ASSOCIATES, INC.

William F. Mayes, Asbestos Inspector North Carolina License Number 11265

Attachments: A – Tables

W.Cymy

B - Certificates of Analyses

## Asbestos Limitations for Inspection, Bulk Sampling and Analysis Reports

This report has been prepared for the exclusive use of Food Lion, Inc. and/or their agents. This report has been prepared in accordance with generally accepted environmental practices. No other warranty, expressed or implied, is made. Our conclusions and recommendations are based, in part, upon information provided to us by others and our site observations. We have not verified the completeness or accuracy of the information provided by others.

Our observations and recommendations are based upon conditions readily visible during the site at the time of our site visit, and upon current industry standards. During CEA's inspection, all accessible areas were visually surveyed for the presence of suspect asbestos-containing materials. Inaccessible areas, such as behind solid ceilings or behind solid walls were not surveyed. Areas inspected for suspect asbestos-containing materials were limited to those designated by the scope of services. All samples were collected by individuals who have completed EPA approved asbestos inspector/management planner courses. Samples were collected and submitted for analysis via polarized light microscopy at CEA's NVLAP accredited laboratory.

CEA, by the virtue of providing the services described in this report, does not assume the responsibility of the person(s) in charge of the site, or otherwise undertake responsibility for reporting to any local, State, or Federal public agencies any conditions at the site that may present a potential danger to public health, safety, or the environment. It is the Client's responsibility to notify the appropriate local, state, or federal public agencies as required by law, or otherwise to disclose, in a timely manner, any information that may be necessary to prevent any danger to public health, safety, or the environment.

Under this scope of services, CEA assumes no responsibility regarding response actions (O&M plan, encapsulation, abatement, removal, etc.) initiated as a result of these findings. Response actions are the sole responsibility of the Client and should be conducted in accordance with local, State, and/or Federal requirements, and should be performed by appropriate licensed asbestos personnel, as warranted.

# ATTACHMENT A TABLES

TABLE 1 Asbestos Sample Results Store 2654 Kings Mountain, NC

Sample	Sample Description	Sample Location	Condition	Friable	Asbestos (%)
2654 -1	Ceiling Tile	Display Area/Office	N/A	N/A	No Asbestos
2654 -2	Ceiling Tile	"	N/A	N/A	No Asbestos
2654 -3	Drywall	Interior Walls	N/A	N/A	No Asbestos
2654 -4	Drywall	"	N/A	N/A	No Asbestos
2654 -5	Joint Compound	Interior Walls	N/A	N/A	No Asbestos
2654 -6	Joint Compound	"	N/A	N/A	No Asbestos
2654 -7	Joint Compound	"	N/A	N/A	No Asbestos
2654 -8	Floor Tile (tan)	Display Area	N/A	N/A	No Asbestos
2654 -8	Mastic (yellow)	"	N/A	N/A	No Asbestos
2654 -9	Floor Tile (tan)	"	N/A	N/A	No Asbestos
2654 -9	Mastic (yellow)	"	N/A	N/A	No Asbestos
2654 -10	Floor Tile (gray)	Display Area/Break Room	N/A	N/A	No Asbestos
2654 -10	Mastic (yellow)	"	N/A	N/A	No Asbestos
2654 -11	Floor Tile (gray)	"	N/A	N/A	No Asbestos
2654 -11	Mastic (yellow)	"	N/A	N/A	No Asbestos
2654 -12	Floor Tile (white)	Beneath Periodic Shelves/Coolers	N/A	N/A	No Asbestos
2654 -12	Mastic (yellow)	"	N/A	N/A	No Asbestos
2654 -13	Floor Tile (white)	"	N/A	N/A	No Asbestos
2654 -13	Mastic (yellow)	"	N/A	N/A	No Asbestos
2654 -14	Hardboard Ceiling Tile	Deli	N/A	N/A	No Asbestos
2654 -15	Hardboard Ceiling Tile	"	N/A	N/A	No Asbestos
2654 -16	Ceramic Tile Grout	Deli/Bathrooms	N/A	N/A	No Asbestos
2654 -17	Ceramic Tile Grout	"	N/A	N/A	No Asbestos
2654 -18	Caulking (gray)	Exterior Windows/Doors	N/A	N/A	No Asbestos
2654 -19	Caulking (gray)	"	N/A	N/A	No Asbestos
2654 -20	Stucco	Façade	N/A	N/A	No Asbestos
2654 -21	Stucco	"	N/A	N/A	No Asbestos

# ATTACHMENT B CERTIFICATES OF ANALYSES



June 21, 2023

Commonwealth Environmental Associates, Inc. 7411 Iron Bridge Road Richmond, VA 23237

**CLIENT PROJECT:** Store 2654 - 610 E. King St - Kings Mountain NC, 25823

CEI LAB CODE: B2312644

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on June 14, 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

Mansao Bi





# ASBESTOS ANALYTICAL REPORT By: Polarized Light Microscopy

## **Prepared for**

# Commonwealth Environmental Associates, Inc.

CLIENT PROJECT: Store 2654 - 610 E. King St - Kings Mountain NC, 25823

LAB CODE: B2312644

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

REPORT DATE: 06/21/23

TOTAL SAMPLES ANALYZED: 21

# SAMPLES > 1% ASBESTOS:



## **Asbestos Report Summary**

LAB CODE: B2312644

By: POLARIZING LIGHT MICROSCOPY

**PROJECT:** Store 2654 - 610 E. King St - Kings

Mountain NC, 25823

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

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
2654-1		B2312644.01	White,Tan	Ceiling Tile	None Detected
2654-2		B2312644.02	White,Tan	Ceiling Tile	None Detected
2654-3		B2312644.03	Gray	Drywall	None Detected
2654-4		B2312644.04	Gray,White	Drywall/Mud	None Detected
2654-5		B2312644.05	Gray,White	Mud	None Detected
2654-6		B2312644.06	White	Non- Fibrous Material	None Detected
2654-7		B2312644.07	White	Non- Fibrous Material	None Detected
2654-8		B2312644.08A	Cream,Tan	Floor Tile	None Detected
		B2312644.08B	Yellow	Mastic	None Detected
2654-9		B2312644.09A	Cream,Tan	Floor Tile	None Detected
		B2312644.09B	Yellow	Mastic	None Detected
2654-10		B2312644.10A	Gray	Floor Tile	None Detected
		B2312644.10B	Yellow	Mastic	None Detected
2654-11		B2312644.11A	Gray	Floor Tile	None Detected
		B2312644.11B	Yellow	Mastic	None Detected
2654-12		B2312644.12A	White,Cream	Floor Tile	None Detected
		B2312644.12B	Yellow	Mastic	None Detected
2654-13		B2312644.13A	White,Cream	Floor Tile	None Detected
		B2312644.13B	Yellow	Mastic	None Detected
2654-14		B2312644.14	Gray,Brown	Drywall	None Detected
2654-15		B2312644.15	Gray,Brown	Drywall	None Detected
2654-16		B2312644.16	Yellow,Tan	Cementitious Material	None Detected
2654-17		B2312644.17	Yellow,Tan	Cementitious Material	None Detected
2654-18		B2312644.18	Gray	Caulking	None Detected
2654-19		B2312644.19	Gray	Caulking	None Detected
2654-20		B2312644.20	Gray,Orange	Cementitious Material	None Detected
2654-21		B2312644.21	Gray,Orange	Cementitious Material	None Detected



Lab Code:

By: POLARIZING LIGHT MICROSCOPY

Client: Commonwealth Environmental Associates, Inc.

B2312644 Date Received: 06-14-23 7411 Iron Bridge Road Richmond, VA 23237 Date Analyzed: 06-21-23 **Date Reported:** 06-21-23

**Project:** Store 2654 - 610 E. King St - Kings Mountain NC, 25823

## ASBESTOS BULK PLM, EPA 600 METHOD

Client ID	Lab	Lab	NENTS	ASBESTOS			
Lab ID	Description	Attributes	Fibrous		Non-F	ibrous	%
<b>2654-1</b> B2312644.01	Ceiling Tile	Heterogeneous White,Tan Fibrous Loosely Bound	60% 20%	Cellulose Fiberglass	15% 5%	Perlite Paint	None Detected
<b>2654-2</b> B2312644.02	Ceiling Tile	Heterogeneous White,Tan Fibrous Loosely Bound	60% 20%	Cellulose Fiberglass	15% 5%	Perlite Paint	None Detected
<b>2654-3</b> B2312644.03	Drywall	Homogeneous Gray Non-fibrous Bound			100%	Gypsum	None Detected
<b>2654-4</b> B2312644.04	Drywall/Mud	Heterogeneous Gray,White Non-fibrous Bound			95% 5% <1%	Gypsum Calc Carb Paint	None Detected
<b>2654-5</b> B2312644.05	Mud	Heterogeneous Gray,White Non-fibrous Bound			55% 40% 5%	Binder Calc Carb Paint	None Detected
<b>2654-6</b> B2312644.06	Non- Fibrous Material	Homogeneous White Non-fibrous Bound			100%	Binder	None Detected
<b>2654-7</b> B2312644.07	Non- Fibrous Material	Homogeneous White Non-fibrous Bound			100%	Binder	None Detected



By: POLARIZING LIGHT MICROSCOPY

**Client:** Commonwealth Environmental Associates, Inc.

Lab Code: B2312644
Date Received: 06-14-23
Date Analyzed: 06-21-23
Date Reported: 06-21-23

**Project:** Store 2654 - 610 E. King St - Kings Mountain NC, 25823

## ASBESTOS BULK PLM, EPA 600 METHOD

7411 Iron Bridge Road Richmond, VA 23237

Client ID	Lab	Lab	NON-ASBEST	TOS COMPO	NENTS	ASBESTOS	
Lab ID	Description	Attributes	Fibrous	Non-F	ibrous	%	
2654-8	Floor Tile	Homogeneous		100%	Vinyl	None Detected	
B2312644.08A		Cream,Tan					
		Non-fibrous					
		Tightly Bound					
B2312644.08B	Mastic	Homogeneous		100%	Mastic	None Detected	
		Yellow					
		Non-fibrous					
		Bound					
2654-9	Floor Tile	Homogeneous		100%	Vinyl	None Detected	
B2312644.09A		Cream,Tan					
		Non-fibrous					
		Tightly Bound					
B2312644.09B	Mastic	Homogeneous		100%	Mastic	None Detected	
		Yellow					
		Non-fibrous					
		Bound					
2654-10	Floor Tile	Homogeneous		100%	Vinyl	None Detected	
B2312644.10A		Gray					
		Non-fibrous					
		Tightly Bound					
B2312644.10B	Mastic	Homogeneous		100%	Mastic	None Detected	
		Yellow					
		Non-fibrous	orous				
		Bound					
2654-11	Floor Tile	Homogeneous		100%	Vinyl	None Detected	
B2312644.11A		Gray					
		Non-fibrous					
		Tightly Bound					



By: POLARIZING LIGHT MICROSCOPY

Client: Commonwealth Environmental Associates, Inc.

Lab Code: B2312644

Date Received: 06-14-23

Date Analyzed: 06-21-23

Date Reported: 06-21-23

Project: Store 2654 - 610 E. King St - Kings Mountain NC, 25823

## ASBESTOS BULK PLM, EPA 600 METHOD

7411 Iron Bridge Road Richmond, VA 23237

Client ID	Lab	Lab	NOI	N-ASBESTOS	COMPO	NENTS	ASBESTOS	
Lab ID	Description	Attributes	Fibr	ous	Non-F	ibrous	%	
B2312644.11B	Mastic	Homogeneous Yellow Non-fibrous Bound			100%	Mastic	None Detected	
<b>2654-12</b> B2312644.12A	Floor Tile	Homogeneous White,Cream Non-fibrous Tightly Bound			100%	Vinyl	None Detected	
B2312644.12B	Mastic	Homogeneous Yellow Non-fibrous Bound			100%	Mastic	None Detected	
<b>2654-13</b> B2312644.13A	Floor Tile	Homogeneous White,Cream Non-fibrous Tightly Bound			100%	Vinyl	None Detected	
B2312644.13B	Mastic	Homogeneous Yellow Non-fibrous Bound			100%	Mastic	None Detected	
<b>2654-14</b> B2312644.14	Drywall	Heterogeneous Gray,Brown Fibrous Bound	20%	Cellulose	80%	Gypsum	None Detected	
<b>2654-15</b> B2312644.15	Drywall	Heterogeneous Gray,Brown Fibrous Bound	20%	Cellulose	80%	Gypsum	None Detected	



Lab Code:

By: POLARIZING LIGHT MICROSCOPY

B2312644

**Client:** Commonwealth Environmental Associates, Inc.

7411 Iron Bridge Road
Richmond, VA 23237

Date Received: 06-14-23
Date Analyzed: 06-21-23
Date Reported: 06-21-23

**Project:** Store 2654 - 610 E. King St - Kings Mountain NC, 25823

## ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous Non-Fibrous			ASBESTOS %
<b>2654-16</b> B2312644.16	Cementitious Material	Homogeneous Yellow,Tan Non-fibrous Bound		70% 30%	Binder Silicates	None Detected
<b>2654-17</b> B2312644.17	Cementitious Material	Homogeneous Yellow,Tan Non-fibrous Bound		70% 30%	Binder Silicates	None Detected
<b>2654-18</b> B2312644.18	Caulking	Homogeneous Gray Non-fibrous Bound		100%	Caulk	None Detected
<b>2654-19</b> B2312644.19	Caulking	Homogeneous Gray Non-fibrous Bound		100%	Caulk	None Detected
<b>2654-20</b> B2312644.20	Cementitious Material	Heterogeneous Gray,Orange Non-fibrous Bound		70% 30%	Binder Silicates	None Detected
<b>2654-21</b> B2312644.21	Cementitious Material	Heterogeneous Gray,Orange Non-fibrous Bound		70% 30%	Binder Silicates	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*.

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

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

ANALYST:

Kathryn Wescott

APPROVED BY:

Tianbao Bai, Ph.D., CIH Laboratory Director



B2312644

CEA 25823

Commonwealth Environmental Associates, Inc.

7411 Iron Bridge Rd. • Richmond, VA 23237 • 804.275.9320 • Fax: 804.275.9322

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# ATTACHMENT C SAMPLE LOCATION MAP

