



National Econ Corporation

4515 Poplar Ave. # 425
Memphis, Tennessee 38117
Phone 901-761-5431 / Fax 901-767-2466

CONFIDENTIAL AND PRIVILEGED

Limited Asbestos Survey Roofing

Bolton High School
7323 Brunswick Road
Memphis, TN

August 28, 2024

Volume 1 of 1

Prepared for:

Shelby County B.O.E Maintenance Department
1364 Farmville Road
Memphis, TN

This report was prepared for **MSCS**, by independent consultants and is based, in part on information not within the control of either **MSCS**, or consultants. While it is believed that all information contained herein will be reliable under conditions and subject to the limitations set forth herein, neither **MSCS**, nor the consultants guarantee the accuracy thereof. The use of this report, or any information contained herein, shall be at the user's sole risk, regardless of any fault or negligence **MSCS**, or the consultants. Use of this report or any **MSCS**, and consultants from and against all liability (including, but not limited to, liability for special, indirect or consequential damages) whether arising in contract or due to **MSCS**, and/or consultant's negligence, strict liability or otherwise.

Executive Summary

This report has been prepared for Memphis Shelby County Schools. Our intent is to provide documentation that will inform you of asbestos containing materials (ACM) used in construction of Bolton High School located at 7323 Brunswick Road in Arlington, Tennessee.

A limited asbestos survey was conducted at the above address. Survey protocols, as established by the Environmental Protection Agency (EPA) were strictly followed. Nine (9) bulk samples were collected and transported under chain of custody protocol by Cordell Cooper, to a pre-qualified laboratory for microscopic analysis. Samples were analyzed by Polarized Light Microscopy (PLM) coupled with dispersion staining to determine the content and type of asbestos.

Primary Analysis was provided by National Econ Corporation, Memphis, Tennessee. National Econ Corporation participates in the American Industrial Hygiene Association (AIHA) - Bulk Asbestos PAT Program (BAPAT) with an accreditation number- 102259.

Suspect ACM are categorized under the Asbestos Hazardous Emergency Response Act (AHERA) as:

- 1) Surface Materials (SM), 2) Thermal System Insulation (TSI), and 3) Miscellaneous Materials (MM). Suspect asbestos containing material (ACM) at the subject location are indicated in the following:

SM

TSI

MM

Non- Penetrating Flashing
EPDM Roofing
Roofing Material
Flashing

***Non – Friable asbestos containing material**

**** Friable asbestos containing material**

National Econ Corporation assumes no responsibility for identification of “**atypical**” ACM, used in the construction trade.

Sincerely,

National Econ Corporation

Chester Ervin

Chester Ervin / Manager
General Manager

Marvinetta Cooper

Marvinetta Cooper
Industrial Hygienist

No Asbestos containing material(s) were detected during an inspection of Bolton High School located at 7323 Brunswick Road in Arlington, Tennessee, as supported by the laboratory reports contained herein.

NO ASBESTOS DETECTED

LIMITATIONS

The conclusions presented in this report are the professional opinions of National Econ Corporation. These opinions are based solely upon visual observations at the site and laboratory analysis of the tested samples. They are intended exclusively for the purpose outlined herein, and for the site location and project indicated.

This report is intended for the sole use of Memphis Shelby County Schools. The use or re-use of this document or the findings, conclusion or recommendations presented herein, by any other party or parties is at the sole risk of said user. Recognizing that even the most comprehensive survey may fail to detect ACMF at a particular site, this study was not intended to identify all potential ACMF present in the building or at the site for such reasons as (1) the possible existence of buried, covered and inaccessible areas and features; and (2) the limited number of samples collected. Samples were collected from materials of similar appearance, age, use, type, color and/or texture. However, this does not guarantee that they are of the same composition. No guarantee is expressed or implied that all ACMF has been identified. National Econ Corporation assumes no responsibility for the identification of suspect asbestos containing materials which are concealed and/or inaccessible (i.e., carpet mastic under carpet, locked rooms, etc.)

Services performed by National Econ Corporation were conducted in a manner consistent with that of the care and skill ordinarily and currently exercised by members of the same profession that even the most comprehensive Scope of Services may fail to detect environmental liabilities on a particular site. Therefore, National Econ Corporation cannot act as insurers and cannot "certify" that a site is free of environmental contamination. No expressed or implied representation or warranty is included or intended in our reports, except that our services were performed, within the limits prescribed by the Scope of Services, with the customary thoroughness and competence of our profession.

Information and opinions presented herein apply to the existing and reasonably foreseeable site conditions at the time of our investigation. They cannot necessarily apply to site changes of which this office is unaware and has not had the opportunity to review. Changes in the conditions of this property may occur with time due to natural processes or works of man on the subject property or on adjacent properties. Changes in applicable standards may also occur as a result of legislation for the broadening of knowledge. Accordingly, the findings of this report may be invalidated, wholly or in part, by changes beyond our control. National Econ Corporation trusts that the information presented herein provides the data you require. Should you have any questions or comments, please contact National Econ Corporation.

ASBESTOS SURVEY- PLM Table

Client / Project Name: MSCS/ Bolton High School 7323 Brunswick Rd.; Arlington, TN

Date: August 28, 2024

Sample Numbers	Material	Location	Approx. Quantity of ACM Material	Results
1	Flashing	Gravel Roof	N/A	No Asbestos Detected
2	EPDM Roofing	Gravel Roof	N/A	No Asbestos Detected
3	Roofing Material	North Bldg.	N/A	No Asbestos Detected
4	Roofing Material	East Bldg.	N/A	No Asbestos Detected
5	Flashing	East Bldg.	N/A	No Asbestos Detected
6	Roofing Material	Northwest of Auditorium	N/A	No Asbestos Detected
7	Non- Penetrating Flashing	N/A	N/A	No Asbestos Detected
8	EPDM Roofing	Near Auditorium	N/A	No Asbestos Detected
9	EPDM Roofing	Near Auditorium	N/A	No Asbestos Detected

National Econ Corporation
4515 Poplar Avenue, Suite 425 - Memphis, Tennessee 38117
(901) 761-5431
Bulk Sample Test Report

Date Analyzed: August 28, 2024

Lab I.D. Number: 20240828

Client / Project Name: MSCS/ Bolton High School 7323 Brunswick Rd.; Arlington, TN

Analyst: Netta Cooper

Sample Number	1	2	3
	Black Layered	Black Layered	Black Layered
<u>Asbestos Minerals</u>			
Chrysotile			
Anthophyllite			
Crocidolite			
Actinolite/ Tremolite			
<u>Non-Asbestos</u>			
Cellulose / Wood Fibers			
Fibrous Glass	10	8	25
Tar			
Styrofoam	20	15	10
Vermiculite			
Filler / Binder	20	15	10
Granular Minerals			
Other	50	62	55
Comments:	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected

Analyst: *Marvinetta Cooper*

Approved Signatory: *Marvinetta Cooper*

Comments: National Econ Corporation participates in the American Industrial Hygiene Association (AIHA) - Bulk Asbestos PAT Program (BAPAT). For all obviously heterogeneous samples easily separated into sub-samples, and for layered samples, each component was analyzed separately. Disclaimer: Difficult samples such as floor tile, roofing material and samples containing < 1% asbestos, may require additional analysis by TEM or SEM if No Asbestos Detected is reported. The above test report relates only to the items tested. This test report relates only to the material analyzed. This sample was analyzed using the technique contained in 40 CFR 763, Subpart F, Appendix A (AHERA). Results from this report must not be reproduced, except in full, with the approval of National Econ Corporation.

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Client / Project Name: MSCS/ Bolton High School 7323 Brunswick Rd.; Arlington, TN

Analyst: Netta Cooper

Sample Number	4	5	6
	Black Layered	Black Layered	Black Layered
<u>Asbestos Minerals</u>			
Chrysotile			
Anthophyllite			
Crocidolite			
Actinolite/ Tremolite			
<u>Non-Asbestos</u>			
Cellulose / Wood Fibers	20	15	20
Fibrous Glass			20
Tar	10	12	
Styrofoam			
Vermiculite			
Filler / Binder	60	61	
Granular Minerals	10	12	5
Other			30
Comments:	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected

Analyst: *Marvinetta Cooper*

Approved Signatory: *Marvinetta Cooper*

Comments: National Econ Corporation participates in the American Industrial Hygiene Association (AIHA) - Bulk Asbestos PAT Program (BAPAT). For all obviously heterogeneous samples easily separated into sub-samples, and for layered samples, each component was analyzed separately. Disclaimer: Difficult samples such as floor tile, roofing material and samples containing < 1% asbestos, may require additional analysis by TEM or SEM if No Asbestos Detected is reported. The above test report relates only to the items tested. This test report relates only to the material analyzed. This sample was analyzed using the technique contained in 40 CFR 763, Subpart F, Appendix A (AHERA). Results from this report must not be reproduced, except in full, with the approval of National Econ Corporation.

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Date Analyzed: August 28, 2024

Lab I.D. Number: 20240828

Client / Project Name: MSCS/ Bolton High School 7323 Brunswick Rd.; Arlington, TN

Analyst: Netta Cooper

Sample Number	7	8	9
	Black Layered	Black Layered	Black Layered
<u>Asbestos Minerals</u>			
Chrysotile			
Anthophyllite			
Crocidolite			
Actinolite/ Tremolite			
<u>Non-Asbestos</u>			
Cellulose / Wood Fibers	20		
Fibrous Glass	20	10	10
Paint			
Styrofoam		20	20
Vermiculite			
Filler / Binder	25	20	15
Granular Minerals	5		
Other	30	50	55

Analyst: **Marvinetta Cooper**

Approved Signatory: **Marvinetta Cooper**

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Date Analyzed: August 28, 2024

Lab I.D. Number: 20240828

Client / Project Name: MSCS/ Bolton High School 7323 Brunswick Rd.; Arlington, TN

Analyst: Netta Cooper

Comments:	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
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Analyst: *Marvinetta Cooper*

Approved Signatory: *Marvinetta Cooper*

Comments: National Econ Corporation participates in the American Industrial Hygiene Association (AIHA) - Bulk Asbestos PAT Program (BAPAT). For all obviously heterogeneous samples easily separated into sub-samples, and for layered samples, each component was analyzed separately. Disclaimer: Difficult samples such as floor tile, roofing material and samples containing < 1% asbestos, may require additional analysis by TEM or SEM if No Asbestos Detected is reported. The above test report relates only to the items tested. This test report relates only to the material analyzed. This sample was analyzed using the technique contained in 40 CFR 763, Subpart F, Appendix A (AHERA). Results from this report must not be reproduced, except in full, with the approval of National Econ Corporation.

Asbestos Chain-of-Custody Form

~ For Lab Use Only ~

Company Name: National Econ Corporation Account Number: _____

Address: 4515 Poplar Avenue #425 City/State/Zip: Memphis, TN 38117

Phone #: 901-761-5431 Email: Cdervinnec@earthlink.net Fax: _____

Project Name / Testing Address: MSCS/ Bolton High School at 7323 Brunswick Road City/State (Required): Arlington, TN

Collected by: Cordell Cooper P.O. # _____

TURN AROUND TIMES: IF NO TAT IS SPECIFIED, SAMPLE(S) WILL BE PROCESSED AND CHARGED AS 3 - DAY TAT.

		1 Day	2 Day	3 Day	* Same Day – Must Call Ahead				* Weekend – Must Call Ahead	
No.	Client Sample ID	HA Area #	Collection		PLM	PLM Point Count 400	PLM Point Count 1000	PLM NY Protocol	TEM - Bulk	Comments
			Date	Time						
1	1	Gravel Roof		AM / PM						Flashing
2	2	Gravel Roof		AM / PM						EPDM Roofing
3	3	North Bldg.		AM / PM						Roofing Material
4	4	East Bldg.		AM / PM						Roofing Material
5	5	East Bldg.		AM / PM						Flashing
6	6	Northwest of Auditorium		AM / PM						Roofing Material
7	7	N/A		AM / PM						Non- Penetrating Flashing
8	8	Near Auditorium		AM / PM						EPDM Roofing
9	9	Near Auditorium		AM / PM						EPDM Roofing
10				AM / PM						
Released by: Cordell Cooper					Signature: <u>Cordell Cooper</u>				Date/Time: 8/27/2024 10:00 AM	
Received by: Marvioletta Cooper					Signature: <u>Marvioletta Cooper</u>				Date/Time: 8/27/24	

THE STATE OF TENNESSEE

Department of Environment and Conservation
Division of Solid Waste Management

Toxic Substances Program

124020-85718



Cordell C Cooper

DOB 30-Sep-1966 Sex M HGT 5' 6" WGT 215

Discipline	Accreditation	Expiration
Inspector	A-I-157425-160208	Jun-30-2025
Project Monitor	A-PM-157425-160207	Apr-30-2025

Date Issued 6/4/2024

Re-Accreditation

Asbestos Accreditation





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

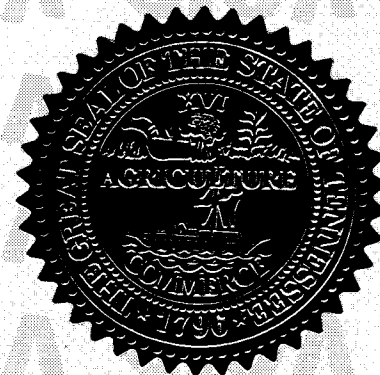
By virtue of the authority vested by the Division of Solid Waste Management, the Company named below is hereby accredited to offer and/or conduct Asbestos activities pursuant to Rule 1200-01-20:

National Econ Corporation

4515 Poplar Avenue Suite 425 Memphis TN, 38117

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-468-138916	September 01, 2023	September 30, 2024



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

This 15th Day of August 2023

Division of Solid Waste Management
Toxic Substance Program

CN-1324 (Rev 6/13)

RDA-3020