



October 18, 2023

Mr. Steve Aldrich  
Director of Facilities and Grounds  
Liberty Public Schools  
Liberty, Missouri

AHERA Pre-Renovation Asbestos Sampling  
Date Performed: **9/14/2023**  
Location: **Alexander Doniphan Elementary School**  
Address: **1900 Clay Drive, Liberty, Missouri 64068**  
Area Description: **Summer 2024 Renovations**  
Requested By: **Steve Aldrich**  
Reason for Request: **Pre-Renovation Survey**  
Performed By: **Glenn Robinson**  
Certification #: **7011040623MOIR4804**

Dear Mr. Aldrich:

On September 14, 2023, Glenn Robinson of Axiom Service Professionals (ASP) conducted limited asbestos sampling from the subject site detailed above Alexander Doniphan Elementary School. The sampling was conducted to determine the potential asbestos content of any suspect materials identified by the inspector, to be disturbed in areas of planned renovations. Mr. Robinson's certification is provided in Appendix A.

Asbestos samples were collected in accordance with Environmental Protection Agency's AHERA regulations (40 CFR Part 763, subpart E) and other applicable local, state, and federal asbestos guidelines and regulations. The samples were submitted to Asbestos Consulting and Testing for analysis. The lab is accredited by the National Institute of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP) and the NVLAP Lab code number is 101649-0. The bulk samples were analyzed by polarized light microscopy (PLM) using EPA Method Reference 600/M4-82-020 and 600/R-93/116.

A material is considered to be an asbestos-containing material (ACM) if at least one sample collected from the suspect material as identified by a qualified laboratory indicates asbestos present in an amount greater than one percent (>1%), in accordance with the definition of ACM per the Environmental Protection Agency (EPA).

The sampling was performed on suspect materials that comprised of locations where renovations anticipated. The suspect materials sampled during this pre-renovation inspection are listed in the table below. Laboratory results and the chain of custody can be found attached as Appendix B.

Sample #	Sample Description	Area Description	Approximate Quantity	Friability	% Asbestos
1	Plaster Ceiling	Nurses Station	N/A	Friable	NAD
2	Pipe Fitting Insulation	Nurses Station	N/A	Friable	NAD
3	Pipe Run Jacketing	Nurses Station	N/A	Friable	NAD
4	Grey 2'X4' Ceiling Tiles Deep Fissures & Tiny holes	Nurses Station	N/A	Friable	NAD
5	Pipe Fitting Insulation	Nurse Station/Teachers' Lounge	N/A	Friable	5% Chrysotile
6	Drywall & Joint Compound	Office	N/A	Non-Friable	NAD
7	Drywall & Joint Compound	Office	N/A	Non-Friable	NAD
8	Grey 2'x4' Ceiling Tiles Small Fissures & Tiny Holes	Office	N/A	Friable	NAD
9	Ceiling Plaster	Office Restroom	N/A	Friable	NAD
10	Drywall and Joint Compound	Teacher's Lounge	N/A	Non-Friable	NAD
11	White 2'x4' Ceiling Tiles Small Fissures & Tiny Holes	Teacher's Lounge	N/A	Friable	NAD
12	White 12" Floor Tile w/ Yellow Adhesive	Teacher's Lounge	N/A	Non-Friable	NAD
13	Linoleum	Teacher's Lounge/Restroom	N/A	Non-Friable	NAD
14	Tan 9" Floor Tile w/Yellow Mastic	Teacher's Data Room/Work Room	N/A	Non-Friable	3% Chrysotile (Floor tile) 4% Chrysotile (Black Mastic)
15	Pipe Jacketing	Teacher's Data/Work Room	N/A	Friable	NAD

16	White Sink Undercoating	Teachers Data/Work Room	N/A	Non-Friable	3% Chrysotile
----	-------------------------	-------------------------	-----	-------------	---------------

**NAD - No Asbestos Detected**

**N/A – Not Applicable**

**There was asbestos containing materials (ACM) identified from the samples collected from areas of planned renovations. Pipe fittings were noted in both the Teachers Lounge and Nurses Station above the ceiling and likely in wall chases. The Tan 9" flooring and adhesive in the Teachers work room/Data Room is currently in place below the carpet was also determined to be asbestos containing. Any sinks that resemble the sink located in the Teachers Work Room/Data Room (white undercoat) should also be considered asbestos containing. These materials will need to be removed and disposed of by a licensed Missouri Department of Natural Resources Asbestos Abatement contractor in good standing.**

Axiom Service Professionals appreciates the opportunity to serve you. If you have any questions, please feel free to call or email.

Sincerely,



Glenn Robinson

Senior Project Manager

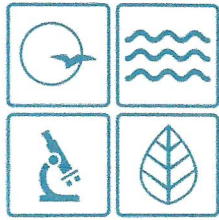
913-579-2657

[glennr@axiomservicepros.com](mailto:glennr@axiomservicepros.com)

#### **Limitations of Inspection**

Axiom Service Professionals collected samples of suspected asbestos materials in planned renovation areas only. Other suspect materials within the facility were not sampled and should be presumed to be asbestos containing until sampling proves otherwise.

## **Appendix A Certification**



# MISSOURI DEPARTMENT OF NATURAL RESOURCES

Michael L. Parson  
Governor

April 25, 2023

Glenn S Robinson  
9065 Waverly Rd  
DeSoto, KS 66018

CERTIFICATION NUMBER:  
**7011040623MOIR4804**

THIS CERTIFIES  
**Glenn S Robinson**  
HAS COMPLETED THE CERTIFICATION  
REQUIREMENTS FOR  
**Inspector**



APPROVED: **04/25/2023**

EXPIRES: **04/25/2024**

TRAINING DATE: **04/06/2023**

  
Director of Air Pollution Control Program

## RE: Missouri Asbestos Occupation Certification Card

Enclosed is your certification card for Asbestos Project Designer, as issued by the Asbestos Unit of the Missouri Department of Natural Resources' Air Pollution Control Program.

Missouri Certification Number: 7011020823MOPDR4804

Course Training Date: February 08, 2023

Missouri Certification Approval Date: April 25, 2023

Missouri Certification Expiration Date: February 08, 2024

### Note:

- All Missouri-certified asbestos personnel must comply with the following statutes and regulations:
  - Sections 643.225 to 643.250, RSMo;
  - 10 CSR 10-6.241 *Asbestos Projects-Registration, Abatement, Notification, Inspection, Demolition, and Performance Requirements; and*
  - 10 CSR 10-6.250 *Asbestos Projects-Certification, Accreditation and Business Exemption Requirements.*
- To keep your occupation certification up-to-date, you must complete an annual refresher course and submit a renewal application each year.
- In order to be eligible to renew your certification, you must successfully complete a refresher course with a Missouri-accredited training provider within 12 months of the expiration date of your current training certificate. If you exceed this grace period, you will be required to retake a Missouri-accredited initial course in order to be eligible for Missouri certification.

To obtain a copy of the certification renewal application, or review regulations and requirements, please visit our website at <http://dnr.mo.gov/env/apcp/asbestos/index.htm>.

If you have any questions please call the Air Pollution Control Program at 573-751-4817.

### AIR POLLUTION CONTROL PROGRAM



Director of Air Pollution Control Program



**Appendix B**  
**Laboratory Analytical Report**



**The Identification Specialists**

Analysis Report  
prepared for  
Axiom Service Professionals, LLC

**Report Date: 10/18/2023**

**Project Name: Alexander Doniphan**

**Project #: L.S.D.**

**SanAir ID#: 23056089**



NVLAP LAB CODE 200870-0

10501 Trade Court | North Chesterfield, Virginia 23236  
888.895.1177 | 804.897.1177 | fax: 804.897.0070 | [IAQ@SanAir.com](mailto:IAQ@SanAir.com) | [SanAir.com](http://SanAir.com)



SanAir ID Number  
**23056089**  
FINAL REPORT  
10/18/2023 2:58:49 PM

**Name:** Axiom Service Professionals, LLC  
**Address:** PO Box 47166  
Kansas City, MO 64188  
**Phone:** 816-678-7894

**Project Number:** L.S.D.  
**P.O. Number:**  
**Project Name:** Alexander Doniphan  
**Collected Date:** 9/14/2023  
**Received Date:** 10/9/2023 1:14:00 PM

Dear Glenn Robinson,

We at SanAir would like to thank you for the work you recently submitted. The 16 sample(s) were received on Monday, October 09, 2023 via UPS. The final report(s) is enclosed for the following sample(s): 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

A handwritten signature in black ink that reads "Sandra Sobrino".

Sandra Sobrino  
Asbestos & Materials Laboratory Manager  
SanAir Technologies Laboratory

Final Report Includes:

- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

Sample conditions:

- 16 samples in Good condition.



SanAir ID Number  
**23056089**  
FINAL REPORT  
10/18/2023 2:58:49 PM

**Name:** Axiom Service Professionals, LLC  
**Address:** PO Box 47166  
Kansas City, MO 64188  
**Phone:** 816-678-7894

**Project Number:** L.S.D.  
**P.O. Number:**  
**Project Name:** Alexander Doniphan  
**Collected Date:** 9/14/2023  
**Received Date:** 10/9/2023 1:14:00 PM

Analyst: Childress, Susan

### Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
1 / 23056089-001 Nurses Station/Restroom/Plaster Ceiling	White Non-Fibrous Homogeneous			None Detected
2 / 23056089-002 Nurses Station/Pipe Fitting Insul.	Beige Non-Fibrous Homogeneous	10% Glass	90% Other	None Detected
3 / 23056089-003 Nurses Station/Pipe Run Jacketing, Mastic	Black Non-Fibrous Homogeneous		100% Other	None Detected
3 / 23056089-003 Nurses Station/Pipe Run Jacketing, Jacket	Silver Non-Fibrous Homogeneous	45% Cellulose 3% Glass	52% Other	None Detected
4 / 23056089-004 Nurses Station/2'x4' Ceiling Tiles Deep Fissures & Tiny	Grey Fibrous Homogeneous	45% Cellulose 15% Glass	40% Other	None Detected
5 / 23056089-005 Nurses Station/Pipe Fitting Insul.	White Non-Fibrous Homogeneous	10% Glass	85% Other	5% Chrysotile
6 / 23056089-006 Office/Drywall & Joint Compound, Drywall	White Non-Fibrous Homogeneous	10% Cellulose	90% Other	None Detected
6 / 23056089-006 Office/Drywall & Joint Compound, Joint Compound	White Non-Fibrous Homogeneous		100% Other	None Detected
7 / 23056089-007 Office/Drywall & Joint Compound, Drywall	White Non-Fibrous Homogeneous	10% Cellulose	90% Other	None Detected
7 / 23056089-007 Office/Drywall & Joint Compound, Joint Compound	White Non-Fibrous Homogeneous		100% Other	None Detected

Analyst: *Susan P. Childress*

Approved Signatory: *Johnathan Wilson*

Analysis Date: 10/18/2023

Date: 10/18/2023



SanAir ID Number  
**23056089**  
FINAL REPORT  
10/18/2023 2:58:49 PM

**Name:** Axiom Service Professionals, LLC  
**Address:** PO Box 47166  
Kansas City, MO 64188  
**Phone:** 816-678-7894

**Project Number:** L.S.D.  
**P.O. Number:**  
**Project Name:** Alexander Doniphan  
**Collected Date:** 9/14/2023  
**Received Date:** 10/9/2023 1:14:00 PM

Analyst: Childress, Susan

### Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
8 / 23056089-008 Office/2'x4' Ceiling Tiles Small Fissures & Tiny Holes	Grey Fibrous Homogeneous	45% Cellulose 15% Glass	40% Other	None Detected
9 / 23056089-009 Office Restroom/Ceiling Plaster	White Non-Fibrous Homogeneous		100% Other	None Detected
10 / 23056089-010 Teachers Lounge/Drywall & Joint Compound, Drywall	White Non-Fibrous Homogeneous	6% Cellulose	94% Other	None Detected
10 / 23056089-010 Teachers Lounge/Drywall & Joint Compound, Joint Compound	White Non-Fibrous Homogeneous		100% Other	None Detected
11 / 23056089-011 Teachers Lounge/2'x4' Ceiling Tile/Small Fissures & Tiny	White Fibrous Homogeneous	45% Cellulose 15% Glass	40% Other	None Detected
12 / 23056089-012 Teachers Lounge/12" Floor Tile W/ Adh., Floor Tile	White Non-Fibrous Homogeneous		100% Other	None Detected
12 / 23056089-012 Teachers Lounge/12" Floor Tile W/ Adh., Adhesive	Yellow Non-Fibrous Homogeneous		100% Other	None Detected
13 / 23056089-013 Teachers Lounge/Restroom/Linoleum	Blue Non-Fibrous Homogeneous		100% Other	None Detected
14 / 23056089-014 Teachers Data Room/Work Room/9" Floor Tile W/ Mastic, Mastic	Yellow Non-Fibrous Homogeneous		100% Other	None Detected
14 / 23056089-014 Teachers Data Room/Work Room/9" Floor Tile W/ Mastic, Floor Tile	Tan Non-Fibrous Homogeneous		97% Other	3% Chrysotile

Analyst: *Susan P. Childress*

Approved Signatory:

*Johnathan Wilson*

Analysis Date: 10/18/2023

Date: 10/18/2023



SanAir ID Number  
**23056089**  
FINAL REPORT  
10/18/2023 2:58:49 PM

**Name:** Axiom Service Professionals, LLC  
**Address:** PO Box 47166  
Kansas City, MO 64188  
**Phone:** 816-678-7894

**Project Number:** L.S.D.  
**P.O. Number:**  
**Project Name:** Alexander Doniphan  
**Collected Date:** 9/14/2023  
**Received Date:** 10/9/2023 1:14:00 PM

Analyst: Childress, Susan

### Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
14 / 23056089-014 Teachers Data Room/Work Room/9" Floor Tile W/ Mastic, Mastic	Black Non-Fibrous Homogeneous		96% Other	4% Chrysotile
15 / 23056089-015 Teachers Data/Work Room/Pipe Jacketing, Mastic	Black Non-Fibrous Homogeneous		100% Other	None Detected
15 / 23056089-015 Teachers Data/Work Room/Pipe Jacketing, Jacket	Silver Non-Fibrous Homogeneous	45% Cellulose	55% Other	None Detected
16 / 23056089-016 Teachers Data/Work Room Sink Undercoating	White Non-Fibrous Homogeneous		97% Other	3% Chrysotile

Analyst: *Susan P. Childress*

Approved Signatory: *Johnathan Wilson*

Analysis Date: 10/18/2023

Date: 10/18/2023

## **Disclaimer**

This report is the sole property of the client named on the SanAir Technologies Laboratory chain-of-custody (COC). Results in the report are confidential information intended only for the use by the customer listed on the COC. Neither results nor reports will be discussed with or released to any third party without our client's written permission. The final report shall not be reproduced except in full without written approval of the laboratory to assure that parts of the report are not taken out of context. This report and any information contained within shall not be edited, altered, or modified in any way by any persons or agencies receiving, viewing, distributing, or otherwise possessing a copy of this final report. The laboratory reserves the right to perform amendments to any finalized report, of which shall supersede and make obsolete any previous editions. Such changes, modifications, additions, or deletions shall be effective immediately upon notice thereof, which may be given by means including but not limited to posting on the SanAir client portal website, electronic or conventional mail, or by any other means. The information provided in this report applies only to the samples submitted and is relevant only for the date, time, and location of sampling. The accuracy of the results is dependent upon the client's sampling procedure and information provided to the laboratory by the client on the COC. SanAir assumes no responsibility for the sampling procedure and will provide evaluation reports based solely on the sample(s) in the condition in which they arrived at the laboratory and information provided by the client on the COC, such as: project number, project name, collection dates, po number, special instructions, samples collected by, sample numbers, sample identifications, sample type, selected analysis type, flow rate, total volume or area, and start stop times that may affect the validity of the results in this report. Samples were received in good condition unless otherwise noted on the report. SanAir assumes no responsibility or liability for the manner in which the results are used or interpreted. This report does not constitute nor shall not be used by the client to claim product, process, system, or person certification, approval, or endorsement by NVLAP, NIST, NELAC, AIHA LAP, LLC or any other U.S. governmental agencies and may not be accredited by every local, state, and federal regulatory agencies. Samples are held for a period of 60 days. Fibers smaller than 5 microns cannot be seen with this method due to scope limitations. For NY state samples, method EPA 600/M4-82-020 is performed.

### **NYELAP Disclaimer:**

Polarized- light microscopy is not consistently reliable in detecting asbestos in floor covering and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

### **Asbestos Accreditations**

National Voluntary Laboratory Accreditation Program (NVLAP) Lab Code 200870-0  
City of Philadelphia Department of Public Health Air Management Services, Certification#ALL-460  
Commonwealth of Pennsylvania Department of Environmental Protection Number 68-05397  
California State Environmental Laboratory Accreditation Program Certificate Number 2915  
Colorado Department of Public Health and Environment Registration Number AL-23143  
Connecticut Department of Public Health Environmental Laboratory Registration Number PH-0105  
Massachusetts Department of Labor Standards Asbestos Analytical Services License Number: AA000222  
State of Maine Department of Environmental Protection License Number: LB-0075, LA-0084  
New York State Department of Health Laboratory ID: 11983  
State of Rhode Island Department of Health Certification No.: PCM00126, PLM00126, TEM00126  
Texas Department of State Health Services License Number: 300440  
Commonwealth of Virginia Department of Professional and Occupational Regulation Number: 3333000323  
State of Washington Department of Ecology Laboratory ID: C989  
State of West Virginia Bureau for Public Health Analytical Laboratory Number: LT000616  
Vermont Department of Health License Number: Asb-Co-An-000006  
Louisiana Department of Environmental Quality AI Number 212253, Certificate #05088



10501 Trade Ct., Suite 100  
N. Chesterfield, VA 23236  
804.897.1177 / 888.895.1177  
Fax 804.897.0070  
sanair.com

Asbestos  
Chain of Custody  
Form 140, Rev 7, 10/20/2022

SanAir ID Number

23056089

Company: <b>Axiom Service Professionals</b>		Project #: <b>L.S.D.</b>	Collected by: <b>Glenn Robinson</b>
Address: <b>PO Box 47166</b>		Project Name: <b>ALEXANDER DONIPHAN</b>	Phone #: <b>913 579 2657</b>
City, St., Zip: <b>Kansas City Missouri 64188</b>		Date Collected: <b>9/14/23</b>	Fax #:
State of Collection: <b>MO</b> Account#:		P.O. Number:	Email: <b>Glennr@axiomservicepros.com</b>

**Bulk**

ABB	PLM EPA 600/R-93/116	<input checked="" type="checkbox"/>
	Positive Stop	<input checked="" type="checkbox"/>
ABEPA	PLM EPA 400 Point Count	<input type="checkbox"/>
ABB1K	PLM EPA 1000 Point Count	<input type="checkbox"/>
ABBN	PLM EPA NOB**	<input type="checkbox"/>
ABBCH	TEM Chatfield**	<input type="checkbox"/>
ABBTM	TEM EPA NOB**	<input type="checkbox"/>
ABQ	PLM Qualitative	<input type="checkbox"/>

\*\* Available on 24-hr. to 5-day TAT

**Air**

ABA	PCM NIOSH 7400	<input type="checkbox"/>
ABA-2	OSHA w/ TWA*	<input type="checkbox"/>
ABTEM	TEM AHERA	<input type="checkbox"/>
ABATN	TEM NIOSH 7402	<input type="checkbox"/>
ABT2	TEM Level II	<input type="checkbox"/>
Other:		<input type="checkbox"/>

**New York ELAP**

ABEPA2	NY ELAP 198.1	<input type="checkbox"/>
ABENY	NY ELAP 198.6 PLM NOB	<input type="checkbox"/>
ABBNY	NY ELAP 198.4 TEM NOB	<input type="checkbox"/>

**Soil**

ABSE	PLM EPA 600/R-93/116 (Qual.)	<input type="checkbox"/>
------	------------------------------	--------------------------

**Vermiculite**

ABB	PLM EPA 600/R-93/116	<input type="checkbox"/>
ABEPA3	PLM EPA 400 Point Count	<input type="checkbox"/>
ABCM	Cincinnati Method	<input type="checkbox"/>

**Dust**

ABWA	TEM Wipe ASTM D-6480	<input type="checkbox"/>
ABDMV	TEM Microvac ASTM D-5755	<input type="checkbox"/>

**Water**

ABHE	EPA 100.2	<input type="checkbox"/>
------	-----------	--------------------------

Positive Stop

Matrix

Other

Turn Around Times	3 HR (4 HR TEM) <input type="checkbox"/>	6 HR (8HR TEM) <input type="checkbox"/>	12 HR <input type="checkbox"/>	1 Day <input type="checkbox"/>
	<input type="checkbox"/> 2 Days	<input type="checkbox"/> 3 Days	<input type="checkbox"/> 4 Days	<input type="checkbox"/> 5 Days

**Special Instructions**

Sample #	Sample Identification/Location	Volume or Area	Sample Date	Flow Rate*	Start - Stop Time*
1.	NURSES STATION / RESTROOM / PLASTER CEILING	N/A	9/14/23	N/A	— —
2.	NURSES STATION / PIPE FITTING INSUL.	N/A	9/14/23	N/A	
3.	NURSES STATION / PIPE RUN JACKETING				
4.	NURSES STATION / 2'X4' CEILING TILES				
	DEEP FISSURES & TINY HOLES				
5.	NURSES STATION / PIPE FITTING INSUL.				
6.	OFFICE / DRYWALL & JOINT COMPOUND				
7.	OFFICE / DRYWALL & JOINT COMPOUND				
8.	OFFICE / 2'X4' CEILING TILES				
	SMALL FISSURES & TINY HOLES				
9.	OFFICE RESTROOM / CEILING PLASTER				
10.	TEACHERS LOUNGE / DRYWALL & JOINT COMPOUND				

Relinquished by	Date	Time	Received by	Date	Time
<i>Glenn Robinson</i>	9/25/23		<i>EDR</i>	10/9/23	10:40 a.m.

If no technician is provided, then the primary contact for your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm EST will be logged in the next business day. Weekend or holiday work must be scheduled ahead of time and is charged at 150% of the 3hr TAT or a minimum charge of \$150. A courier charge will be applied for same day and one-day turnaround times for offsite work. SanAir covers Ground and Next Day Air shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges.

[illegible]

### Special Instructions

Relinquished by	Date	Time	Received by	Date	Time
Glenn Belandier	9/25/23		EDR	10/9/23	10:40 a.m.

If no technician is provided, then the primary contact for your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm EST will be logged in the next business day. Weekend or holiday work must be scheduled ahead of time and is charged at 150% of the 3hr TAT or a minimum charge of \$150. A courier charge will be applied for same day and one-day turnaround times for offsite work. SanAir covers Ground and Next Day Air shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges. Page 2 of 2