



August 28, 2021

Mr. Jason Bing, RA, LEED AP
Construction Projects Auditor, Physical Properties
Ann Arbor Public Schools
2555 South State Street
Ann Arbor, Michigan 48104

RE: **Project #AE210718**
Asbestos Bulk Sample Results
Angell Elementary School

Dear Mr. Bing:

Attached are the results of the bulk samples, collected by Arch Environmental Group, Inc. (AEG), from the above referenced site for asbestos analysis. The samples were analyzed utilizing Polarized Light Microscopy (PLM), according to the EPA-600/M4-82-020 Interim Method.

The materials were collected from locations associated with occupant concerns. The following materials were sampled and analyzed as ASBESTOS-CONTAINING.

- NONE

All other suspect materials were sampled and analyzed as non-asbestos-containing. The sample result information is attached for your review. AEG will include copies of this bulk sample report in the school's management plan.

Arch Environmental Group, Inc. looks forward to working with you in the future and helping you to address any concerns regarding environmental health and safety. If you have any questions regarding this report, or if I can be of further assistance please feel free to contact me at (248) 426-0165.

Sincerely,

Arch Environmental Group, Inc.
Environmental Services

A handwritten signature in black ink, appearing to read 'Gary Bosh', is written over a light blue horizontal line.

Gary Bosh
Project Consultant II, healthAIR

Attachments: Bulk Sampling and Laboratory Information
Asbestos Bulk Sample Analysis Report
Official Laboratory Sample Results

File: AE210718

BULK SAMPLING and LABORATORY INFORMATION

The information listed below is provided to summarize pertinent information regarding the collection and analysis of the bulk sample(s).

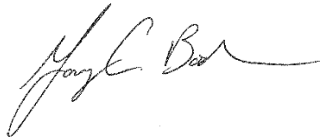
BULK SAMPLING INFORMATION

Date of Sampling: August 27, 2021

Name of Accredited Inspector who collected Bulk Sample(s):

Name: Gary Bosh
Accreditation Number: A33379
State of Accredited: Michigan
Accred. Exp. Date: March 1, 2022
Training Exp. Date: May 13, 2022

Signature of Accredited Inspector who collected Bulk Sample(s):



LABORATORY INFORMATION

Name of Laboratory: APEX Research Laboratories

Address of Laboratory: 11054 Hi Tech Drive
Whitmore Lake, Michigan 48189

Name of Analyst: Robert T. Letarte

Signature of Analyst: See Attached Laboratory Results Sheet

NVLAP Number: 102118

Laboratory Statement of Accreditation:

All samples collected by Arch Environmental Group, Inc. are analyzed for asbestos by laboratories accredited under the National voluntary Laboratory Accreditation Program (NVLAP), in accordance with 40 CFR, Part 763.87(a). This program is provided under the auspices of the United States Department of Commerce National Institute of Standards and Technology. The NVLAP Accreditation Number for the laboratory which performed the asbestos bulk analysis on the samples collected is provided above and noted on the Official Laboratory Results.



ASBESTOS BULK SAMPLE ANALYSIS RESULTS

Client: Ann Arbor Public Schools
Building: Angell Elementary School
Location: Multiple Locations
Project #: AE210718

Samples Collected By: Gary Bosh
Sample Collection Date: August 27, 2021
Samples Analyzed By: APEX Research, Inc.
Sample Analysis Date: August 28, 2021

Sample #	HA Description	Sample Location	Results
AE210718-AES001	Tape	Room 108 Teacher's Desk	No Asbestos Observed
AE210718-AES002	Tape	Room 108 Lab Counter	No Asbestos Observed
AE210718-AES003	Tape	Room 108 N. Student Desk	No Asbestos Observed
AE210718-AES004	Tape	Room 108 Sink Counter	No Asbestos Observed
AE210718-AES005	Tape	Room 145 Teacher's Desk	No Asbestos Observed
AE210718-AES006	Tape	Room 145 Bookshelf	No Asbestos Observed
AE210718-AES007	Tape	Room 145 C. Student Desk	No Asbestos Observed
AE210718-AES008	Tape	Room 145 Sink Counter	No Asbestos Observed
AE210718-AES009	Tape	Room 219 Teacher's Desk	No Asbestos Observed
AE210718-AES010	Tape	Room 219 Bookshelf	No Asbestos Observed
AE210718-AES011	Tape	Room 219 Craft Shelf	No Asbestos Observed
AE210718-AES012	Tape	Room 219 N. Desk	No Asbestos Observed
AE210718-AES013	Tape	Room 207 Teacher's Table	No Asbestos Observed
AE210718-AES014	Tape	Room 207 Bookshelf	No Asbestos Observed
AE210718-AES015	Tape	Room 207 Sink Counter	No Asbestos Observed
AE210718-AES016	Tape	Room 207 S. Student Table	No Asbestos Observed
AE210718-AES021	Tape	Cafeteria – Sink Counter	No Asbestos Observed
AE210718-AES022	Tape	Cafeteria – Serving Area	No Asbestos Observed
AE210718-AES023	Tape	Cafeteria N. – Table	No Asbestos Observed
AE210718-AES024	Tape	Cafeteria – Desk	No Asbestos Observed

Official Laboratory Results are attached.

Asbestos-Containing Materials (ACM) means "Any material or product which contains more than 1% asbestos" (40 CFR 763.83)

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)



Project : Angell Elementary School
Project # :AE210718

Report To:

Mr. Gary Bosh
Arch Environmental Group
37720 Interchange Drive
Farmington Hills, MI 48335

ARI Report # 21-95862
Date Collected: 08/27/21
Date Received: 08/28/21
Date Analyzed: 08/28/21
Date Reported: 08/28/21

Sample Information**Asbestos Type/Percent****Non-Asbestos Material**

Lab ID #: 95862 - 16
Cust. #: AE210718-AES016
Material: Tape
Location: Room 207 S. Student Table
Appearance: white, fibrous, nonhomogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Lab ID #: 95862 - 17
Cust. #: AE210718-AES017
Material: Tape
Location: Reading Intervention Teacher's Desk
Appearance: white, fibrous, nonhomogenous
Layer: of

Asbestos Present:
NO SAMPLE RECEIVED

Lab ID #: 95862 - 18
Cust. #: AE210718-AES018
Material: Tape
Location: Reading Intervention Book Desk
Appearance: white, fibrous, nonhomogenous
Layer: of

Asbestos Present:
NO SAMPLE RECEIVED

For Layered Samples, each component will be analyzed and reported separately.

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false/negative results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples tested and to insure the integrity of the results, may only be reproduced in full. This certificate must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)



Project : Angell Elementary School
Project # :AE210718

Report To:

Mr. Gary Bosh
Arch Environmental Group
37720 Interchange Drive
Farmington Hills, MI 48335

ARI Report # 21-95862
Date Collected: 08/27/21
Date Received: 08/28/21
Date Analyzed: 08/28/21
Date Reported: 08/28/21

Sample Information**Asbestos Type/Percent****Non-Asbestos Material**

Lab ID #: 95862 - 19
Cust. #: AE210718-AES019
Material: Tape
Location: Reading Intervention Student Desk
Appearance: white, fibrous, nonhomogenous
Layer: of

Asbestos Present:
NO SAMPLE RECEIVED

Lab ID #: 95862 - 20
Cust. #: AE210718-AES020
Material: Tape
Location: Reading Intervention Supply Desk
Appearance: white, fibrous, nonhomogenous
Layer: of

Asbestos Present:
NO SAMPLE RECEIVED

Lab ID #: 95862 - 21
Cust. #: AE210718-AES021
Material: Tape
Location: Cafeteria - Sink Counter
Appearance: white, fibrous, nonhomogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

For Layered Samples, each component will be analyzed and reported separately.

Robert T. Letarte Jr., Laboratory Director

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Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)



Project : Angell Elementary School
Project # :AE210718

Report To:

Mr. Gary Bosh
Arch Environmental Group
37720 Interchange Drive
Farmington Hills, MI 48335

ARI Report # 21-95862
Date Collected: 08/27/21
Date Received: 08/28/21
Date Analyzed: 08/28/21
Date Reported: 08/28/21

Sample Information**Asbestos Type/Percent****Non-Asbestos Material**

Lab ID #: 95862 - 22
Cust. #: AE210718-AES022
Material: Tape
Location: Cafeteria - Serving Area
Appearance: white, fibrous, nonhomogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Lab ID #: 95862 - 23
Cust. #: AE210718-AES023
Material: Tape
Location: Cafeteria N. - Table
Appearance: white, fibrous, nonhomogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Lab ID #: 95862 - 24
Cust. #: AE210718-AES024
Material: Tape
Location: Cafeteria - Desk
Appearance: white, fibrous, nonhomogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

For Layered Samples, each component will be analyzed and reported separately.

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false/negative results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples tested and to insure the integrity of the results, may only be reproduced in full. This certificate must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

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(734) 449-9990, Fax (734) 449-9991

95862

APEX Research, Inc.

11054 HI Tech Drive, Whitmore Lake, MI 48189. Phone: (734) 449 - 9990, Fax (734) 449 - 9991 www.ApexMI.com



Customer Name: Arch Environmental Group, Inc.
 Address: 37720 Interchange Drive
 City, St., Zip: Farmington hills, Michigan 48335
 Phone: (248)426-0165 Fax: (248)427-0305

Date of Survey: 8/27/21
 Project: Ange li ES
 Project # AE210718
 Contact Person: Gary BSR
 Email: labs@archenvygroup.com

Lab Use Only
 Log-In: _____
 Report: _____
 Fax: _____
 Verbal: _____
 Email: _____

Rush 24 hour
 48 hour
 72 hour

Asbestos: Bulk _____ Wipe _____ Point Count _____ PCM _____
 Lead / Cad / Chrome: Wipe ASTM E1792? circle YES or NO _____ Air _____ Paint _____ Bulk _____

Other: _____ TTP yes / no _____
 Samples received after 3pm (Test Till Positive)
 logged in next morning

Mold: Bulk _____ Air/Zefon/AlergenCO2 _____ BioSIS _____ Tape _____
 TEM: Bulk/NOB _____ NIOSH 7402 _____ EPA Level II _____ Other _____

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
	AE210718 AE5001	DUST wipe / Room 145 - Teachers Desk			
	062	DUST wipe / Room 108 Lab Counter			
	063	DUST wipe / Room 108 N Street Desk			
	064	DUST wipe / Room 108 Sink Counter			
	065	DUST Wipe / Room 145 - Teachers Desk			
	066	DUST Wipe / Room 145 Book Shelf			
	067	DUST Wipe / Room 145 C. Smart Desk			
	068	DUST Wipe / Room 145 Sink Counter			
	069	DUST Wipe / Room 219 Teachers Desk			
	070	DUST Wipe / Room 219 Book Shelf			
	071	DUST wipe / Room 219 Craft Shelf			
	072	DUST wipe / Room 219 N Desk			

Relinquished By: [Signature]
 Date: 8/27/21
 Revision R5 Date: Nov/2017

Received By: [Signature]
 Time/Date: 9:30am AUG 28 2021

Relinquished By: _____
 Date: _____

Received By: _____
 Time/Date: _____

RECEIVED

11054 Hi Tech Drive, Whitmore Lake, MI 48189, Phone: (734) 449 - 9990, Fax (734) 449 - 9991 www.ApexMI.com



APEX Research, Inc.

Customer Name: Arch Environmental Group, Inc.
Address: 37720 Interchange Drive
City, St., Zip: Farmington hills, Michigan 48335

Phone: (248)426-0165 Fax: (248)427-0305

Date of Survey: 8/27/21
 Project: Angell ES
 Project # AE210718
 Contact Person: Frey Boss
 Email: labs@archenvgroup.com

Lab Use Only
 Log-In: _____
 Report: _____
 Fax: _____
 Verbal: _____
 Email: _____

Circle analyses required, indicate type and quantity

Rush 24 hour
 72 hour
 48 hour

Asbestos: Bulk _____ Wipe _____ Point Count _____ PCM _____ Bulk _____
 Wipe ASTM E1792? circle YES or NO _____ Air _____ Paint _____
 Mold: Bulk _____ Air/Zefon/Alergencod _____ BioSIS _____ Tape _____
 TTP yes / no _____ (Test Till Positive)

Other: _____
 Samples received after 3pm _____
 logged in next morning _____
 TEM: _____ Bulk/NOB _____ NIOSH 7402 _____ EPA Level II _____ Other _____

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
	AE210718-AES013	DUST Wipe / Room 207 - Teachers Table			
	014	DUST Wipe / Room 207 Book Shelf			
	015	DUST Wipe / Room 207 Sink Counter			
	016	DUST Wipe / Room 207 S Stool Table			
	017	DUST Wipe / Reading Intervention - Teachers Desk			
	018	DUST Wipe / Reading Intervention Book Desk			
	019	DUST Wipe / Reading Intervention Student Desk			
	020	DUST Wipe / Reading Intervention Supply Desk			
	021	DUST Wipe / Cafeteria - Sink Counter			
	022	DUST Wipe / Cafeteria - Serving Area			
	023	DUST Wipe / Cafeteria N - Table			
	024	DUST Wipe / Cafeteria Desk			

RECEIVED

Relinquished By: [Signature]
 Date: 8/27/21

Received By: _____
 Time/Date: AUG 28 2021

Relinquished By: _____
 Date: _____

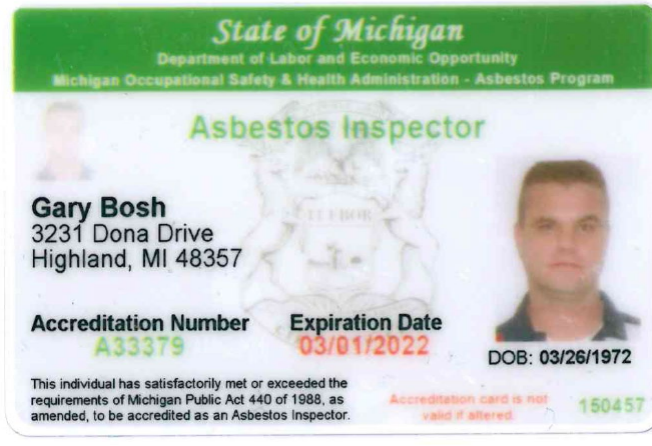
Received By: _____
 Time/Date: _____

Gary Bosh

Accredited Asbestos Inspector

State: Michigan
Accreditation Number: A33379
Accreditation Expiration Date: March 1, 2022
Training Provider: Arch Environmental Group
Training Expiration Date: May 13, 2022

Signature: _____



Certificate of Achievement

This certifies that

GARY C. BOSH

#xxx-xx-6609

has completed Arch Environmental Group, Inc.'s

ASBESTOS INSPECTOR REFRESHER COURSE

Fulfills requirements under TSCA Title II

Compliant with 40 CFR 763 and Michigan Public Act 440 of 1988 as amended

Course Location: AEG Corporate Office

Course Date: May 13, 2021

Expiration Date: May 13, 2022

Certificate No. 21102



Roosevelt Austin III, Course Trainer



37720 Interchange Drive
Farmington Hills, MI 48335
(248) 426-0165 ph / (248) 427-0305 fx
www.archenvgroup.com