



February 14, 2022

Mr. Bernie Rice
Executive Director, Physical Properties
Ann Arbor Public Schools
2555 South State Street
Ann Arbor, Michigan 48104

RE: **Project #AE210780**
Asbestos Abatement Report
Community High School

Dear Mr. Rice:

Per your request, Arch Environmental Group, Inc. (AEG) conducted project coordination and air monitoring activities for a small-scale, short duration asbestos abatement project at Community High School on February 11-12, 2022. Environmental Maintenance Engineers, a State of Michigan licensed asbestos abatement contractor, removed and disposed of asbestos plaster in the East Stairway Corridors. The asbestos ceiling plaster was removed using Class II procedures and wet methods inside of a full negative enclosure. The asbestos plaster was properly disposed of as asbestos waste.

AEG conducted air monitoring during abatement activities during the abatement activities. The collected air samples have been analyzed utilizing Phase Contrast Microscopy (PCM) in accordance with NIOSH 7400 Methodologies. AEG uses the following nomenclature for referencing different types of air samples:

FB	Field Blank
AS	Area Sample
PS	Personal Sample
PA	Clearance (Post-Abatement) Sample

Following a thorough visual inspection of the project area, the PCM clearance samples collected in the East Stairway Corridors at Community High School on February 11-12, 2022, were analyzed below the AHERA PCM Clearance Level of 0.01 fibers per cubic centimeter (f/cc). The project areas shall be considered safe for re-occupancy.

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.

Project #AE210780

Asbestos Abatement Project Report

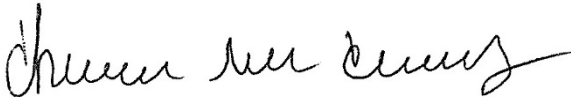
Ann Arbor Public Schools

Community High School

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Sincerely,

Arch Environmental Group, Inc.
Environmental Services



Christina Neis Crossley
Field Technician, healthAIR

Attachments: Asbestos Daily Project Reports
Contractor Documentation

File: AE210780

Attachment
Asbestos Daily Project Reports



ASBESTOS DAILY PROJECT REPORTS On-Site Activity Summary

Client: Ann Arbor Public Schools	Date: 2.11.2022	Consultant: Arch Environmental Group, Inc.
Building: Community High School		Project Technician: Thinkh Nguyen
Location: East Corridors/Stairways		Abatement Contractor: Environmental Maintenance Engineers, Inc.
Project #: AE210780		Competent Person: Shane Niblock

Abatement Information	Regulated Area Information	Air Sample Information
OSHA Work Class II	Enclosure Integrity Check (start of work shift): Yes	Air samples collected: Yes
	Corrections necessary: No	Calibrated pumps: Yes
Contractor Activities	Corrections made: no	Baseline samples (BL): No
Set-up procedures conducted: Yes	Enclosure Integrity Check (middle of work shift): Yes	Set-up samples (SS): Yes
Abatement procedures conducted:	Corrections necessary: No	Personal samples (8 hr TWA) (PS): No
Removal: Yes	Corrections made: No	Above/Below PEL: N/A
Encapsulation: No	Enclosure Integrity Check (end of work shift): Yes	Personal samples (STEL) (PS): No
Repair: No	Corrections necessary: No	Above/Below PEL: N/A
Enclosure: No	Corrections made: No	Above/Below STEL: N/A
Wet methods used: Yes	Negative air maintained: Yes	Area samples (AS): No
Clean up procedures: Yes	Manometer reading: <#>	PCM Clearance samples (PA): No
Waste bags checked: Yes	Smoke testing conducted: Yes	Passed: N/A
Conducted by: <x>	Conducted by: <x>	Aggressive: N/A
# of Waste Bags: <#>	Asbestos signs in place: Yes	TEM Clearance samples (PA): No
Final cleaning procedures: Yes	Asbestos banner tape in place: Yes	Passed: N/A
Visual inspection: No - Per Contractor	Shower operational: Yes	Aggressive: N/A
Conducted by:	Dumpster secure at end of day: Yes	
Lock-down activities:	PPE - Disposable coveralls (Contractor): Yes	Personal Samples Collected On:
Tear-down procedures: No	PPE - Respirators (Contractor): Yes	Name(s): <x>
	Type: HFNPR	
Abatement Method(s)	PPE - Disposable coveralls (Consultant): Yes	
Full Enclosure	PPE - Respirators (Consultant): Yes	
Non-Friable Project	Type: HFNPR	
		Required Postings
Criticals set-up: Yes	Did Consultant enter enclosure: No	Notification: Yes
Shower set-up: No - Per Contractor	Time (A.M.): <##:## a.m. - ##:## a.m.>	Supervisor/Competent Person Training: Yes
AFDs used: Yes	Time (P.M.): <##:## p.m. - ##:## p.m.>	OSHA Personal Sampling Posting: Yes



ASBESTOS DAILY PROJECT REPORTS Contractor and Materials Information

Client: Ann Arbor Public Schools	Date: 2.11.2022	Consultant: Arch Environmental Group, Inc.
Building: Community High School		Project Technician: Tinh Nguyen
Location: East Corridors/Stairways		Abatement Contractor: Environmental Maintenance Engineers, Inc.
Project #: AE210780		Competent Person: Shane Niblock

Abatement Personnel Information

Workers / Accreditation Numbers

Name: Shane Niblock Type: Supervisor
 Accred #: A43597 Training: 10/24/2021
 Exp. Date: 12/18/2022 Fit test: 7/15/2021
 Activity: Set-up Only PWO: 6/24/2022
 Personal #: N/A (No abate. activities)

Name: Bradley Altherr Type: Worker
 Accred #: A45730 Training: 5/15/2021
 Exp. Date: 6/4/2022 Fit test: 7/15/2021
 Activity: Set-up Only PWO: 5/14/2021
 Personal #: N/A (No abate. activities)

Name: Type:
 Accred #: Training:
 Exp. Date: Fit test:
 Activity: PWO:
 Personal #:

Abatement Personnel Information

Workers / Accreditation Numbers

Name: Type:
 Accred #: Training:
 Exp. Date: Fit test:
 Activity: PWO:
 Personal #:

Name: Type:
 Accred #: Training:
 Exp. Date: Fit test:
 Activity: PWO:
 Personal #:

Name: Type:
 Accred #: Training:
 Exp. Date: Fit test:
 Activity: PWO:
 Personal #:

Materials Abated - Quantity & Location

Material	sf/lf/#	Locations
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Set Up

Additional Work Activities

Were work activities conducted that were not included in original scope-of-work or that need to be tracked on a T&M basis?

No



ASBESTOS DAILY PROJECT REPORTS
Air Sample Analysis Information

Client:	Ann Arbor Public Schools	Samples Collected By:	Thinh Nguyen
Building:	Community High School	Sample Collection Date:	2.11.2022
Location:	East Corridors/Stairways	Samples Analyzed By:	Thinh Nguyen
Project #:	AE210780	Sample Analysis Date:	2.11.2022

Sample ID	Sample Location	Start/End	Total Time (min)	Flow Rate (Lpm)	Volume (L)	Concentration (f/cc)	Density (f/mm ²)
FB1	Sample prepared on-site.	--	--	--	--	--	1.27
FB2	Sample prepared on-site.	--	--	--	--	--	3.82
S1	Outside Northeast Stairway on first floor	6:00 PM	120	8.580	1030	0.003	7.64
		8:00 PM					
S2	Outside Northeast Stairway on first floor	8:00 PM	150	8.580	1287	0.002	9.55
		10:30 PM					

AHERA PCM Clearance Level = 0.010 f/cc

AHERA TEM Clearance Level = 70 AS/mm²

State of Michigan PCM Clearance Level = 0.050 f/cc

Project Area Clearance Information

N/A



ASBESTOS DAILY PROJECT REPORTS On-Site Activity Summary

Client: Ann Arbor Public Schools	Date: 2.12.2022	Consultant: Arch Environmental Group, Inc.
Building: Community High School		Project Technician: Thinkh Nguyen
Location: East Corridors/Stairways		Abatement Contractor: Environmental Maintenance Engineers, Inc.
Project #: AE210780		Competent Person: Shane Niblock

Abatement Information	Regulated Area Information	Air Sample Information
OSHA Work Class II	Enclosure Integrity Check (start of work shift): Yes	Air samples collected: Yes
	Corrections necessary: No	Calibrated pumps: Yes
Contractor Activities	Corrections made: no	Baseline samples (BL): No
Set-up procedures conducted: Yes	Enclosure Integrity Check (middle of work shift): Yes	Set-up samples (SS): No
Abatement procedures conducted:	Corrections necessary: No	Personal samples (8 hr TWA) (PS): Yes
Removal: Yes	Corrections made: No	Above/Below PEL: Below
Encapsulation: No	Enclosure Integrity Check (end of work shift): Yes	Personal samples (STEL) (PS): Yes
Repair: No	Corrections necessary: No	Above/Below PEL: Below
Enclosure: No	Corrections made: No	Above/Below STEL: Below
Wet methods used: Yes	Negative air maintained: Yes	Area samples (AS): Yes
Clean up procedures: Yes	Manometer reading: <#>	PCM Clearance samples (PA): Yes
Waste bags checked: Yes	Smoke testing conducted: Yes	Passed: Yes
Conducted by: <x>	Conducted by: <x>	Aggressive: Yes
# of Waste Bags: <#>	Asbestos signs in place: Yes	TEM Clearance samples (PA): No
Final cleaning procedures: Yes	Asbestos banner tape in place: Yes	Passed: N/A
Visual inspection: Yes	Shower operational: Yes	Aggressive: N/A
Conducted by:	Dumpster secure at end of day: Yes	
Lock-down activities: No - Per Contractor	PPE - Disposable coveralls (Contractor): Yes	Personal Samples Collected On:
Tear-down procedures: Yes	PPE - Respirators (Contractor): Yes	Name(s): Bradley Altherr
	Type: HFNPR	A worker/workers who is/are representative of all workers
Abatement Method(s)	PPE - Disposable coveralls (Consultant): Yes	within the work area (all workers are conducting similar
Full Enclosure	PPE - Respirators (Consultant): Yes	activities)
Non-Friable Project	Type: HFNPR	
		Required Postings
Criticals set-up: Yes	Did Consultant enter enclosure: No	Notification: Yes
Shower set-up: No - Per Contractor	Time (A.M.): <###:## a.m. - ##:## a.m.>	Supervisor/Competent Person Training: Yes
AFDs used: Yes	Time (P.M.): <###:## p.m. - ##:## p.m.>	OSHA Personal Sampling Posting: Yes



ASBESTOS DAILY PROJECT REPORTS Contractor and Materials Information

Client: Ann Arbor Public Schools	Date: 2.12.2022	Consultant: Arch Environmental Group, Inc.
Building: Community High School		Project Technician: Thinh Nguyen
Location: East Corridors/Stairways		Abatement Contractor: Environmental Maintenance Engineers, Inc.
Project #: AE210780		Competent Person: Shane Niblock

Abatement Personnel Information

Workers / Accreditation Numbers

Name: Shane Niblock Type: Supervisor
 Accred #: A43597 Training: 10/24/2021
 Exp. Date: 12/18/2022 Fit test: 7/15/2021
 Activity: Supervisor PWO: 6/24/2022
 Personal #: PS1

Name: Bradley Altherr Type: Worker
 Accred #: A45730 Training: 5/15/2021
 Exp. Date: 6/4/2022 Fit test: 7/15/2021
 Activity: Removal of misc. NF PWO: 5/14/2021
 Personal #: PS1

Name: Erik Richardson Type: Supervisor
 Accred #: A52387 Training: 5/15/2021
 Exp. Date: 6/5/2022 Fit test: 7/15/2021
 Activity: Removal of misc. NF PWO: 12/3/2021
 Personal #: PS1

Abatement Personnel Information

Workers / Accreditation Numbers

Name: Christopher Gibson Type:
 Accred #: A37296 Training:
 Exp. Date: 11/12/2022 Fit test:
 Activity: Removal of misc. NF PWO:
 Personal #: PS1

Name: Type:
 Accred #: Training:
 Exp. Date: Fit test:
 Activity: PWO:
 Personal #:

Name: Type:
 Accred #: Training:
 Exp. Date: Fit test:
 Activity: PWO:
 Personal #:

Materials Abated - Quantity & Location

Material	sf/lf/#	Locations
Other Class II	10	East Stairway Corridors, plaster

Additional Work Activities

Were work activities conducted that were not included in original scope-of-work or that need to be tracked on a T&M basis? No



ASBESTOS DAILY PROJECT REPORTS

Air Sample Analysis Information

Client: Ann Arbor Public Schools Building: Community High School Location: East Corridors/Stairways Project #: AE210780	Samples Collected By: Tinh Nguyen Sample Collection Date: 2.12.2022 Samples Analyzed By: Tinh Nguyen Sample Analysis Date: 2.12.2022
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Sample ID	Sample Location	Start/End	Total Time (min)	Flow Rate (Lpm)	Volume (L)	Concentration (f/cc)	Density (f/mm ²)
FB1	Sample prepared on-site.	--	--	--	--	--	1.27
FB2	Sample prepared on-site.	--	--	--	--	--	3.82
AS1	Outside Northeast Stairway on first floor	8:20 AM	160	8.580	1373	0.002	7.64
		11:00 AM					
AS1R1	Outside Northeast Stairway on first floor	11:00 AM	150	8.580	1287	0.002	5.73
		1:30 PM					
AS1R2	Outside Northeast Stairway on first floor	1:30 PM	120	8.580	1030	0.003	10.19
		3:30 PM					
PA1	Northeast Stairway	10:30 AM	135	14.4	1944	0.002	12.10
		12:45 PM					
PA2	Southeast Stairway	1:00 PM	135	14.62	1974	0.002	12.74
		3:15 PM					

AHERA PCM Clearance Level = 0.010 f/cc
AHERA TEM Clearance Level = 70 AS/mm²
State of Michigan PCM Clearance Level = 0.050 f/cc

Project Area Clearance Information

Passed



ASBESTOS DAILY PROJECT REPORTS
OSHA Personal Air Sample Analysis

Client:	Ann Arbor Public Schools	Samples Collected By:	Thinh Nguyen
Building:	Community High School	Sample Collection Date:	2.12.2022
Location:	East Corridors/Stairways	Samples Analyzed By:	Thinh Nguyen
Project #:	AE210780	Sample Analysis Date:	2.12.2022

Sample ID	Sample Location	Start/End	Total Time (min)	Flow Rate (Lpm)	Volume (L)	Concentration (f/cc)	Density (f/mm ²)
PS1 Series	Bradley Altherr	9:00 AM	240	2.0	480	0.036	*
		1:00 PM				0.018	
Activity:	Removing sections of plsater						
PS1	Bradley Altherr	9:00 AM	30	2.0	60	0.074	14.01
		9:30 AM					
PS1R1	Bradley Altherr	9:30 AM	90	2.0	180	0.037	19.75
		11:00 AM					
PS1R2	Bradley Altherr	11:00 AM	120	2.0	240	0.027	19.11
		1:00 PM					

OSHA Permissible Exposure Limit = 0.100 f/cc, 8 hr TWA

OSHA STEL Limit = 1.0 f/cc

* = 8 hr Time Weighted Average

Attachment
Contractor Documentation