



December 6, 2021

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 December 3-4, 2021. Environmental Maintenance Engineers, a State of Michigan licensed asbestos abatement contractor, installed drywall sheets and unistruts to asbestos ceiling plaster in the 1st Floor Hallway and Main Office. The asbestos ceiling plaster was removed using Class II procedures and wet methods inside of a full negative enclosure. The asbestos ceiling 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 1st Floor Hallway and Main Office at Community High School on December 3-4, 2021, 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



Gary Bosh
Project Consultant II, 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: 12.3.2021	Consultant: Arch Environmental Group, Inc.
Building: Community High School		Project Technician: Thinkh Nguyen
Location: First floor and Main office		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) 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) 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: Yes	Shower operational: Yes	Aggressive: N/A
Conducted by: <x>	Dumpster secure at end of day: Yes	
Lock-down activities: Yes	PPE - Disposable coveralls (Contractor): Yes	Personal Samples Collected On:
Tear-down procedures: Yes	PPE - Respirators (Contractor): Yes	Name(s): Jacob Starr
	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	
Glovebag		
Criticals set-up: Yes	Did Consultant enter enclosure: No	
Shower set-up: Yes	Time (A.M.): <##:## a.m. - ##:## a.m.>	Notification: Yes
AFDs used: Yes	Time (P.M.): <##:## p.m. - ##:## p.m.>	Supervisor/Competent Person Training: Yes
		OSHA Personal Sampling Posting: Yes



ASBESTOS DAILY PROJECT REPORTS Contractor and Materials Information

Client: Ann Arbor Public Schools	Date: 12.3.2021	Consultant: Arch Environmental Group, Inc.
Building: Community High School		Project Technician: Thinh Nguyen
Location: First floor and Main office		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: **[Redacted]**
 Exp. Date: **12/18/2021** Fit test: **[Redacted]**
 Activity: **Supervisor** PWO: **[Redacted]**
 Personal #: **N/A (No abate. activities)**

Name: **Jacob Starr** Type: **Supervisor**
 Accred #: **A57207** Training: **[Redacted]**
 Exp. Date: **5/4/2022** Fit test: **[Redacted]**
 Activity: **Removal of misc. NF** PWO: **[Redacted]**
 Personal #: **PS1**

Name: **Erik Richardson** Type: **Supervisor**
 Accred #: **A52387** Training: **[Redacted]**
 Exp. Date: **6/5/2022** Fit test: **[Redacted]**
 Activity: **Removal of misc. NF** PWO: **[Redacted]**
 Personal #: **[Redacted]**

Name: **Dylan Mexicotte** Type: **Supervisor**
 Accred #: **A57208** Training: **[Redacted]**
 Exp. Date: **5/4/2022** Fit test: **[Redacted]**
 Activity: **Removal of misc. NF** PWO: **[Redacted]**
 Personal #: **[Redacted]**

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 #:

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

Materials Abated - Quantity & Location

Material	sf/lf/#	Locations
Drywall w/ Mud/Tape	2	1st floor hallway, main office
Other Class II	2	1st floor hall, main office 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	Samples Collected By:	Thinh Nguyen
Building:	Community High School	Sample Collection Date:	12.3.2021
Location:	First floor and Main office	Samples Analyzed By:	Thinh Nguyen
Project #:	AE210780	Sample Analysis Date:	12.3.2021

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.	--	--	--	--	--	3.82
FB2	Sample prepared on-site.	--	--	--	--	--	2.55
AS1	First Floor hallway outside Rm	6:40 PM	215	8.580	1845	0.002	14.01
		10:15 PM					
AS2	Second Floor hallway outside main office	6:45 PM	210	8.436	1772	0.002	12.10
		10:15 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

N/A



ASBESTOS DAILY PROJECT REPORTS
OSHA Personal Air Sample Analysis

Client: Ann Arbor Public Schools	Samples Collected By: Tinh Nguyen
Building: Community High School	Sample Collection Date: 12.3.2021
Location: First floor and Main office	Samples Analyzed By: Tinh Nguyen
Project #: AE210780	Sample Analysis Date: 12.3.2021

Sample ID	Sample Location	Start/End	Total Time (min)	Flow Rate (Lpm)	Volume (L)	Concentration (f/cc)	Density (f/mm ²)
PS1 Series	Jacob Starr	6:45 PM	195	2.0	390	0.015	*
		10:00 PM				0.006	
Activity:	removing drywall/plaster from hallway wall						
PS1	Jacob Starr	6:45 PM	30	2.0	60	0.053	11.46
		7:15 PM					
PS1R1	Jacob Starr removing plaster from main office	7:15 PM	165	2.0	330	0.008	9.55
		10:00 PM					

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

OSHA STEL Limit = 1.0 f/cc

* = 8 hr Time Weighted Average



ASBESTOS DAILY PROJECT REPORTS On-Site Activity Summary

Client: Ann Arbor Public Schools	Date: 12.4.2021	Consultant: Arch Environmental Group, Inc.
Building: Community High School		Project Technician: Thinkh Nguyen
Location: First floor and Main office		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) 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: N/A (≤25 lf/10 sf/Intact)	Aggressive: N/A
Conducted by: <x>	Dumpster secure at end of day: Yes	
Lock-down activities: Yes	PPE - Disposable coveralls (Contractor): Yes	Personal Samples Collected On:
Tear-down procedures: Yes	PPE - Respirators (Contractor): Yes	Name(s): Jacob Starr
	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	
Glovebag		
Criticals set-up: Yes	Did Consultant enter enclosure: No	
Shower set-up: N/A (≤25 lf/10 sf/Intact)	Time (A.M.): <##:## a.m. - ##:## a.m.>	Notification: Yes
AFDs used: Yes	Time (P.M.): <##:## p.m. - ##:## p.m.>	Supervisor/Competent Person Training: Yes
		OSHA Personal Sampling Posting: Yes

Required Postings

Notification:	Yes
Supervisor/Competent Person Training:	Yes
OSHA Personal Sampling Posting:	Yes



ASBESTOS DAILY PROJECT REPORTS Contractor and Materials Information

Client: Ann Arbor Public Schools	Date: 12.4.2021	Consultant: Arch Environmental Group, Inc.
Building: Community High School		Project Technician: Thinkh Nguyen
Location: First floor and Main office		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: **[Redacted]**
 Exp. Date: **12/18/2021** Fit test: **[Redacted]**
 Activity: **Supervisor** PWO: **[Redacted]**
 Personal #: **N/A (No abate. activities)**

Name: **Jacob Starr** Type: **Supervisor**
 Accred #: **A57207** Training: **[Redacted]**
 Exp. Date: **5/4/2022** Fit test: **[Redacted]**
 Activity: **Removal of misc. NF** PWO: **[Redacted]**
 Personal #: **PS1**

Name: **Erik Richardson** Type: **Supervisor**
 Accred #: **A52387** Training: **[Redacted]**
 Exp. Date: **6/5/2022** Fit test: **[Redacted]**
 Activity: **Removal of misc. NF** PWO: **[Redacted]**
 Personal #: **[Redacted]**

Name: **Dylan Mexicotte** Type: **Supervisor**
 Accred #: **A57208** Training: **[Redacted]**
 Exp. Date: **5/4/2022** Fit test: **[Redacted]**
 Activity: **Removal of misc. NF** PWO: **[Redacted]**
 Personal #: **[Redacted]**

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 #:

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

Materials Abated - Quantity & Location

Material	sf/lf/#	Locations
Drywall w/ Mud/Tape	2	First floor hallway, Rm 116

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: First floor and Main office Project #: AE210780	Samples Collected By: Tinh Nguyen Sample Collection Date: 12.4.2021 Samples Analyzed By: Tinh Nguyen Sample Analysis Date: 12.4.2021
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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.	--	--	--	--	--	3.82
FB2	Sample prepared on-site.	--	--	--	--	--	2.55
PA1	2nd Floor Main office	9:15 AM	135	14.56	1966	0.002	14.01
		11:30 AM					
PA2	First floor hallway	11:00 AM	135	14.2	1917	0.001	6.37
		1:15 PM					
PA3	Rm 116	11:15 AM	135	14.62	1974	0.001	6.37
		1:30 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

Passed



ASBESTOS DAILY PROJECT REPORTS
OSHA Personal Air Sample Analysis

Client: Ann Arbor Public Schools	Samples Collected By: Tinh Nguyen
Building: Community High School	Sample Collection Date: 12.4.2021
Location: First floor and Main office	Samples Analyzed By: Tinh Nguyen
Project #: AE210780	Sample Analysis Date: 12.4.2021

Sample ID	Sample Location	Start/End	Total Time (min)	Flow Rate (Lpm)	Volume (L)	Concentration (f/cc)	Density (f/mm ²)
PS1 Series	Erik Richardson	10:00 AM	90	2.0	180	0.030	*
		11:30 AM				0.006	
Activity:	removing drywall/plaster from hallway wall and ceiling plaster						
PS1	Erik Richardson	10:00 AM	30	2.0	60	0.045	10.19
		10:30 AM					
PS1R1	Erik Richardson	10:30 AM	60	2.0	120	0.022	5.73
		11:30 AM					

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