

# Asbestos Hazard Emergency Response Act (AHERA) Management Plan & Asbestos Inspection Report

For

Ivywood Classical Academy 14356 Genoa Court Plymouth, Michigan 48170

**Prepared By:** 

Northern Analytical Services, LLC.
PO Box 1604
Big Rapids, Michigan 49307

Dated: July 22, 2019

**Project No.: 190185** 

14870 225th Ave., Big Rapids, Michigan 49307 Phone: 231-268-0004 Fax: 866-214-4739 Web: www.northernas.com

### Table of Contents

Introduction	2
Building Summary	3
Company Statement	4
Asbestos Background	5
Inspection Procedures	5
Facility Recommendations	
Management Planner's Recommendations	7
School Building Number 1 - Ivywood Classical Academy	
Signature Page	9
Inspection Statement	9
Management Plan Statement	9
Local Education Information	10
Training Certification	10
LEA Responsibility Certification	11
Annual Notification	12
Appendix A	13
Notifications & Forms	13
Annual AHERA Notification	14
Asbestos Removal Notification	15
Asbestos Acknowledgement	16
Periodic Surveillance	17
Appendix B	19
Inspection Data	19
Material Report	20
Inspection Report	21
Sample Location Report	22
Response Action Report	
Laboratory Report	
Drawing	26

#### Introduction

The following Asbestos management Plan and Inspection Report was completed by Northern Analytical Services, LLC. (NAS) for Ivywood Classical Academy located at 14356 Genoa Court, Plymouth, Michigan 48170.

In accordance with the Asbestos Hazard Emergency Response Act (AHERA), all buildings owned and/or operated by K-12 school districts are required to be incorporated in the district's management plan. These regulations allow for buildings, or portions of buildings, constructed after 1988 to either be inspected for the presence of asbestos containing materials (ACM) or be accompanied by a statement from the architect/construction manager that no ACM was installed during construction activities. It is recommended that acceptable statements be obtained and attached to this report for any future renovation/construction activities.

The following buildings are included:

School Building Number	Building		Address	Re-Inspection Date
	lvywood	Classical	14356 Genoa Court,	
1	Academy		Plymouth, Michigan 48170	7/09/2019

Local Education Agency (LEA) Name
Ivywood Classical Academy

### **Building Summary**

School Building Number	School Building Name
1	Ivywood Classical Academy

### **Building Address**

Street	City	p
14356 Genoa Court	Plymouth	48170

### **Building Contains:**

1. Friable ACBM.	No
2. Non-Friable ACBM	No
3. Friable Material Assumed to be ACM.	No
4. Non-Friable Material Assumed to be ACM.	Yes
5. None of the Above.	

### Form A-2

### **Company Statement**

This Management Plan and Inspection Report was prepared by NAS to assist Ivywood Classical Academy in meeting the requirements set forth by AHERA.

In preparation of this document, every attempt has been made to recommend the least burdensome response actions consistent with protecting human health and the environment as specified by AHERA.

AHERA states that the management plan is the responsibility of the owner/operator of the facility, also called the Local Education Agency (LEA); in this case the LEA is Ivywood Classical Academy. It is the responsibility of the LEA to read and understand the response actions, their obligations, timetables, and to determine if these actions are reasonable actions prior to signing the owner/operator statement. Any changes or additions to this document without written authorization from NAS will automatically void the inspection and management plan statements.

If the LEA decides to make changes to this report without authorization from NAS or decides to make changes which conflict with the advice and/or professional judgment of NAS, a separate statement shall accompany the management plan and should specify which recommended actions the owner/operator has decided to change, the actual changes and rationale for the changes. NAS will not accept any responsibility for changes to any response actions that weren't stated previously by NAS

### **Asbestos Background**

Asbestos is a naturally occurring mineral. It is distinguished from other minerals by the fact that its crystals form long, thin fibers. Deposits of asbestos are found throughout the world. The primary sites of commercial production are Canada, China, Brazil, Zimbabwe, and South Africa. Asbestos is also mined commercially in limited quantities in the United States, in California and Vermont.

Asbestos has been used in thousands of products. Collectively, these are referred to as asbestos-containing material (ACM). Asbestos gained wide-spread use because it was plentiful, readily available and low in cost. Because of its unique properties – fire resistance, high tensile strength, poor heat and electrical conductivity and being generally impervious to chemicals attacks – asbestos proved well-suited for many uses in the construction trades.

Asbestos-related diseases are chronic diseases and symptoms usually do not appear for 15 to 40 years after initial exposures to airborne asbestos fibers. In nearly all cases, many years of exposure to high levels of airborne ACM is necessary for personnel to contract asbestos-related diseases.

The primary exposure route is inhalation. Inhaled fibers may become embedded in the bronchial tubes or alveoli, or they may pass through to the pleura – the lining of the chest cavity. Asbestos-related diseases include asbestosis, lung cancer, mesothelioma and gastrointestinal cancers.

### **Inspection Procedures**

Inspection procedures were conducted by a State of Michigan accredited Asbestos Building Inspector in accordance with AHERA requirements.

To complete this survey, the inspector(s) reviewed any available historic documentation and performed an inspection attempting to identify any suspect asbestos containing materials present. During the inspection, the inspector visually inspected materials for damage or the potential for damage.

### **Facility Recommendations**

Based on the findings of the Inspector, the following general site recommendations have been made:

Careful review of the included Survey Data and Response Actions should be conducted by the Districts Designated Person. The reports titled Homogenous Material Report will provide a detailed description of the suspect ACM found, asbestos content, friability, type of asbestos present, and the total quantity found in each building. Reports titled Survey and Response Action Report will provide a description of what materials were found in each room, comments on the specific location and damage if any was observed and response actions to be taken for each of the known or assumed to contain ACM found in each area. The report titled Periodic Surveillance is intended to assist the Designated Person in completing the required periodic surveillance (at least 1 time every 6 months).

For materials that have been identified as damaged, it is recommended that a licensed abatement contractor be contacted to make any repairs or to conduct any removal activities needed.

In accordance with CFR 1910.1200, it is recommended that each ACM be properly labeled as asbestos containing. Warning labels should contain the following information:

Danger
Contains Asbestos Fibers
Avoid Creating Dust
Cancer and Lung Disease Hazard

Labels should be placed in various locations on each material in a manner to avoid accidental disturbance.

Prior to any renovation or maintenance activity, review the Management Plan to ensure materials being impacted by the renovation/activity do not contain asbestos. Should materials likely to be disturbed not be accurately described in the inspection reports, contact a licensed Asbestos Building Inspector to collect samples. Do not disturb materials not described in the Management Plan or materials identified as asbestos containing or assumed to contain asbestos.

If a disturbance occurs, either accidental or planned (abatement project), area air monitoring should be conducted to establish the airborne concentration of asbestos fibers present. Both State and Federal Agency strictly govern disturbance activities and exposure to employees and building occupants. Proper air sampling can determine if area contamination has occurred as well as help assure employees and building occupants in adjacent areas are not being exposed. In addition to area monitoring, AHERA requires third party area air clearance testing whenever a disturbance occurs.

Records of future renovation activities should be kept. These records should include what materials where disturbed and to what extent. Also, information on replacement materials is vital in keeping this survey up to date. Often Architects or Design Engineers can provide legal statements indicating that replacement materials do not contain asbestos. Other documentation of this sort would be material or product safety data sheets. If proper documentation is not available for suspect ACM's located in building constructed prior to 1986, sample collection and analysis is required by State and Federal Regulations.

Both CFR 1910.110 and CFR 1926.110 require that employers provide awareness training to all employees that are expected to come in contact with or required to work in the general vicinity of ACM. In accordance with regulatory requirements, it is recommended that all housekeeping and maintenance employees receive, at a minimum, 2-hour asbestos awareness training. In addition, employees that are required to conduct minor cleanup projects shall be provided additional training.

#### **Management Planner's Recommendations**

All of the ACM or suspect ACM identified in this report was noted by the inspector as being in good condition unless specifically mentioned below under each building name. Continue the facility's operations and maintenance program and conduct periodic assessments (at least every 6 months) of all known or assumed asbestos containing materials.

The following recommendations (not all inclusive, see Response Actions for additional recommendations) are based on the inspector's findings, laboratory results and the management planner's opinion. Please note that all work described below must be completed either by in house properly trained 16-hour asbestos operations and maintenance personnel or a licensed asbestos abatement contractor. Third-party air clearance testing should be conducted following any repair/removal actions described below:

### **School Building Number 1 - Ivywood Classical Academy**

1. No damaged ACM or SACM was discovered during this inspection.

### **Signature Page**

#### **Inspection Statement**

The person(s) listed below hereby attest(s) that he/she/they did inspect, assess and perform sampling of suspect asbestos containing building materials (ACBM) at the buildings/portions of buildings listed in this report in accordance with AHERA regulations set forth in 40 CFR Section 763.85(a):

Name Accreditation No. Signature Date

Juston Rehkopf A36980 July 22, 2019

### **Management Plan Statement**

The person(s) listed below hereby attest(s) that he/she/they did review the asbestos reinspection data collected by the asbestos building inspector for this re-inspection. Any recommendations are based on the above referenced inspection in accordance with AHERA regulations set forth in 40 CFR Section 763.93 (12), (ii).

Name Accreditation No. Signature Date

John Rehkopf A16809 John J. Relkett July 22, 2019

#### **Local Education Information**

Local Education Agency (LEA): Ivywood Classical Academy LEA Address: 14356 Genoa Court, Plymouth, Michigan 48170

Designated Person: Stephanie Kooiker

Designated Person Address: 14356 Genoa Court, Plymouth, Michigan 48170

Designated Person Telephone: 248-207-1757

### **Training Certification**

The Designated Person(s) listed above attests that he/she/they received adequate training covering the Local Education Agency's (LEA) responsibilities for Designated Person in accordance with 763.93 (e)(4). This training included:

- The health effects of asbestos exposure
- Detection, identification and assessment of ACBM
- Options for controlling ACBM
- Asbestos management programs
- Relevant State and Federal regulations regarding asbestos
- The LEA/Designated Person responsibilities.

raining was provided by:		
Under the course titled:		
on:	, and was hours in length.	
Designated Person Signature: _	Stephanie Kooiker	 Date

### **LEA Responsibility Certification**

The Designated Person listed above certifies that the general LEA responsibilities as required by 763.84 have been or will be satisfied. This includes the following actions:

- 1. Anyone who conducts any inspections, re-inspections or abatement projects; develops or updates management plans; or performs operations and maintenance that will disturb ACM are licensed asbestos professionals.
- 2. All custodial and maintenance staff have received two-hour asbestos awareness training and 14 hours of operations and maintenance training (along with annual refreshers) as described in AHERA.
- 3. The parents, teachers and employee organizations are notified on an annual basis of all inspections, response actions and periodic surveillance that are planned or in progress in regard to asbestos in each school building.
- 4. Short-term workers (e.g., telephone repair workers, utility workers or exterminators) are informed of the locations of ACBM in school buildings.
- 5. Warning signs are posted immediately adjacent to ACM in routine maintenance areas that state:

Danger. Asbestos. Hazardous.

Do Not Disturb

Without Proper Training and Equipment

- 6. Parents, teachers and employee organizations are notified in writing on an annual basis of the availability of the school's asbestos management plan.
- 7. The management plans are available for inspection in each school and the district office.
- 8. Records are properly maintained.
- Each management plan contains a statement, signed by the designated person that certifies the LEA's responsibilities have been or will be met. The statement needs to be amended for each new designated person chosen by the LEA.
- 10. Re-inspections are conducted at least once every three years after a management plan is in effect.

As the Designated Person for <u>Ivywood Classical Academy</u>, I will ensure that the above items are completed in accordance with AHERA.

Signature of Designated Person	Stephanie Kooiker	Date

#### **Annual Notification**

Annual AHERA Notifications to Employees, Students, and Parents.

The Asbestos Hazard Emergency Response Act (AHERA) requires schools to "ensure that workers and building occupants, or their legal guardians, are informed at least once each school year about inspections, response actions, and post-response action activities, including periodic reinspection and surveillance activities that are planned or in progress (763.84(c)). Such notification must be done in writing and a copy placed in the management plan. Suggested notification methods may be through the publication of an article in a school district newsletter or through a separate written notice distributed to staff and sent home to a student's parent or legal guardian.

In addition, schools "shall make management plans available for inspection to representatives of EPA and the State, the public, including parents, teachers, and other school personnel within 5 working days after receiving a request for inspection (763.93(g)(3)). Furthermore, "the local education agency shall notify in writing parent, teacher, and employee organizations of the availability of management plans and shall include in the management plan a description of steps to notify such organizations, and a dated copy of the notification. In the absence of any such organizations for parents, teachers, or employees, the local education agency shall provide written notice to that relevant group of the availability of management plans and shall include in the management plan a description of the steps taken to notify such groups and a dated copy of the notification" (763.93(g)(4).

The LEA asbestos designated person for the school district is to ensure that these AHERA required notifications occur each school year. The school may determine when to do AHERA notification, as long as it occurs at least once each school year.

A copy of the annual notification can be found in Appendix A.

Appendix A Notifications & Forms

#### **Annual AHERA Notification**

Ivywood Classical Academy has an Asbestos Management Plan in place in accordance with the Asbestos Hazard Emergency Response Act (AHERA). The plan is available for review in the main office. Please call Mrs. Stephanie Kooiker at (248-207-1757) to view during normal operational hours, 8AM to 4PM Monday through Friday with the exception of holidays.

In accordance with AHERA requirements, Ivywood Classical Academy has contracted Northern Analytical Services, LLC. (NAS) to perform all re-inspections of known asbestos containing materials present, to prepare written project designs for all response actions and to perform all post response action testing. As part of this plan, NAS performed the most recent 3-year re-inspection on 7/09/2019.

Over the past 12 months, the following materials were removed from our buildings:
In the next 12 months we are planning to remove the following materials from our buildings:
Prior to conducting any work that disturbs asbestos, Ivywood Classical Academy will notify all parents and building staff in advance.
Sincerely,
Stephanie Kooiker

ivywood Classical Academy

#### **Asbestos Removal Notification**

In an effort to provide our students with the best learning environment possible, lyywood Classical Academy is planning a building improvement project that will require the disturbance of asbestos containing materials. We have retained the services of a State of Michigan accredited Asbestos Project Designer to prepare written specifications to help ensure the work is completed in the safest manner possible. All removal work will be performed by a State of Michigan licensed asbestos abatement contractor and overseen by a qualified third-party air quality testing firm.

Third party air clearance testing will be performed before the areas affected by the asbestos removal are returned to normal use.

Asbestos Removal is scheduled to be removed from the following buildings:

Building Name	Start Date	Completion Date

Please contact our District's Designated Person, Mrs. Stephanie Kooiker at 248-207-1757 with any questions.

### **Asbestos Acknowledgement**

Asbestos containing materials (ACM)'s are located in various areas of Ivywood Classical Academy. All short-term workers (anyone performing work that may disturb any building materials) must first have received asbestos awareness training within the past 12 months and be made aware of the types, locations, and quantities of ACM present in our District. Training shall be in accordance with Part 602 Asbestos Standards for Construction-1926.1101, be at least 2 hours in length, and include the contents of our District's asbestos building survey.

A copy of the asbestos survey reports can be obtained by contacting the Asbestos Designated Person for Ivywood Classical Academy, Mrs. Stephanie Kooiker at 248-207-1757.

All short-term workers must return a signal building materials.	gned copy of this form to Mrs. Kooiker be	fore disturbing any
associated with repairing, cleaning, and contractor(s) improperly disturb any asb employees, sub-contractors and their enthat causes the disturbance of building materials.	treas of Ivywood Classical Academy and testing should any representative of our contestor containing material. In addition, I amployees who perform services at Ivywood naterials have been provided asbestos aware ded information regarding the presence, local	ompany, or our sub- attest that all of our Classical Academy eness training within
Company Representative Legally Authoriz	zea to Sign this form.	
	Title Date you have received asbestos awareness trai arding the presence, location, and quantity	-
Individual's name	Signature	Date of Training

	1-Ivywood Classical Academy	
Period	ic Surveillance	
Name of Person Performing the Surveillan	ice:	
Last	First	M.I.
Date of the Surveillance:		
Date of the ourvemance.		
Description of any Changes in the Condition	on of the Materials:	
	Name of Person Performing the Surveillan  Last  Date of the Surveillance:	Periodic Surveillance  Name of Person Performing the Surveillance:  Last First  Date of the Surveillance:

Local Education Agency (LEA) Name

Ivywood Classical Academy

School Building Number/Name

Periodic Surveillance Forms F-4

Appendix B Inspection Data



### Northern Analytical Services, LLC.

14870 225th Avenue, Big Rapids, MI 49307 - (231) 268-0004 - Fax (866) 214-4739

Customer: Building: Address: Choice Schools Associates Ivywood Classical Academy 14356 Genoa Court Plymouth, MI July 22, 2019

Printed:

### **Material Report**

Material Number	Homogeneous Material Description	Category	Friability*	RACM**	Asbestos Detected	Percent Asbestos	Asbestos Type	Quantity	Units
1	Caulk - Soft white on interior side of exterior steel door frame	Misc.	No	No	No	0	None Detected	0	Sq.Ft.
2	Caulk - Soft tan on exterior side of exterior steel door frame	Misc.	No	No	No	0	None Detected	0	Sq.Ft.
3	Caulk - Soft tan on exterior roll up door	Misc.	No	No	No	0	None Detected	0	Sq.Ft.
4	Caulk - Soft tan on exterior expansion joint	Misc.	No	No	No	0	None Detected	0	Sq.Ft.
5	Cove Base - 4 inch black	Misc.	No	No	No	0	None Detected	0	Sq.Ft.
6	Caulk - Soft black on exterior aluminum window frame	Misc.	No	No	No	0	None Detected	0	Sq.Ft.
7	Caulk - Soft white on interior expansion joint	Misc.	No	No	No	0	None Detected	0	Sq.Ft.
8	Drywall & Joint Compound -	Misc.	No	No	No	0	None Detected	0	Sq.Ft.
9	Caulk - Soft white on interior steel door frame	Misc.	No	No	No	0	None Detected	0	Sq.Ft.
10	Mastic - Black	Misc.	No	No	No	0	None Detected	0	Sq.Ft.
11	Floor Tile - 12 inch grey	Misc.	No	No	No	0	None Detected	0	Sq.Ft.
12	Ceramic Tile & Grout - 5 inch grey	Misc.	No	No	No	0	None Detected	0	Sq.Ft.
13	Stair Tread - Black with 1 inch circles	Misc.	No	No	No	0	None Detected	0	Sq.Ft.
14	Floor Tile - 12 inch grey with grey flecks	Misc.	No	No	No	0	None Detected	0	Sq.Ft.
15	Ceramic Tile & Grout - 4 inch white	Misc.	No	No	No	0	None Detected	0	Sq.Ft.

<sup>\*</sup> Non-Friable materials may become friable when damaged.

Misc. = miscelleaneous material
Surfacing = surfacing material

Surfacing = surfacing material Thermal = thermal system insulation

RACM = regulated asbestos containing material

<sup>\*\*</sup> May become regulated asbestos containing material (RACM) when damaged.

### Northern Analytical Services, LLC.

14870 225th Avenue, Big Rapids, MI 49307 - (231) 268-0004 - Fax (866) 214-4739

Customer: Building: Address: Choice Schools Associates Ivywood Classical Academy 14356 Genoa Court Plymouth, MI July 22, 2019

Printed:

### **Material Report**

Material Number	Homogeneous Material Description	Category	Friability*	RACM**	Asbestos Detected	Percent Asbestos	Asbestos Type	Quantity	Units
16	Ceramic Tile & Grout - 2 inch grey	Misc.	No	No	No	0	None Detected	0	Sq.Ft.
17	Sink Undercoating - White	Surfacing	No	No	No	0	None Detected	0	Sq.Ft.
18	Ceiling Tile - 2x4 random punctures and pinholes	Misc.	Yes	No	No	0	None Detected	0	Sq.Ft.
19	Fire Rated Door - steel with 1 ft slit window	Misc.	Category II Non-Friable	Yes	Yes	0	Assumed	7	Each
20	Ceiling Tile - 2x2 random punctures and pinholes	Misc.	Yes	No	No	0	None Detected	0	Sq.Ft.
21	Dampener Clothe - Black	Misc.	Yes	No	No	0	None Detected	0	Sq.Ft.
22	Fire Rated Door - Interior steel	Misc.	Category II Non-Friable	Yes	Yes	0	Assumed	4	Each
23	Floor Tile - 12 inch white with grey and black flecks	Misc.	No	No	No	0	None Detected	0	Sq.Ft.
24	Floor Tile - 12 inch grey with tiny bumps	Misc.	No	No	No	0	None Detected	0	Sq.Ft.

Misc. = miscelleaneous material

Surfacing = surfacing material Thermal = thermal system insulation

RACM = regulated asbestos containing material

<sup>\*</sup> Non-Friable materials may become friable when damaged.

 $<sup>** \</sup>textit{May become regulated asbestos containing material (RACM) when damaged.}$ 



Customer: Building: Address:

Choice Schools Associates **Ivywood Classical Academy** 14356 Genoa Court Plymouth, MI July 22, 2019

Printed:

### **Inspection Report**

Room	Material		Asbestos				
Number	Number	Homogeneous Material Description	Detected	Asbestos Type	Quantity	Units	Comments
206	22	Fire Rated Door - Interior steel	Yes	Assumed	2	Each	2 doors
222	22	Fire Rated Door - Interior steel	Yes	Assumed	2	Each	2 doors
C5	19	Fire Rated Door - steel with 1 ft slit window	Yes	Assumed	1	Each	1 door
E. Stair	19	Fire Rated Door - steel with 1 ft slit window	Yes	Assumed	3	Each	3 doors
W. stair	19	Fire Rated Door - steel with 1 ft slit window	Yes	Assumed	3	Each	3 doors



Customer: Building: Address:

Choice Schools Associates **Ivywood Classical Academy** 14356 Genoa Court Plymouth, MI July 22, 2019

### Printed: **Sample Location Report**

Sample Number	Material Number	Homogeneous Material Description	Room Number	Sample Location
101	1	Caulk - Soft white on interior side of exterior steel door frame	111	11 ft west of ne corner
102	1	Caulk - Soft white on interior side of exterior steel door frame	C5	3 ft west of ne
201	2	Caulk - Soft tan on exterior side of exterior steel door frame	111	14 ft west of ne corner
202	2	Caulk - Soft tan on exterior side of exterior steel door frame	C5	2 ft east of nw corner
301	3	Caulk - Soft tan on exterior roll up door	111	4 ft east of nw corner
302	3	Caulk - Soft tan on exterior roll up door	110	10 ft north of sw corner
401	4	Caulk - Soft tan on exterior expansion joint	111	Northwest corner outside
501	5	Cove Base - 4 inch black	111	Northwest corner
502	5	Cove Base - 4 inch black	115	19 ft west 18 ft south of ne corner
601	6	Caulk - Soft black on exterior aluminum window frame	111	14 ft east of nw corner
602	6	Caulk - Soft black on exterior aluminum window frame	129	4 ft south of ne corner
701	7	Caulk - Soft white on interior expansion joint	111	12 ft north of sw corner
801	8	Drywall & Joint Compound -	109	2 ft south of nw corner
802	8	Drywall & Joint Compound -	201	3 ft south 3 ft east of nw corner
901	9	Caulk - Soft white on interior steel door frame	111	17 ft west of se corner
902	9	Caulk - Soft white on interior steel door frame	125	5 ft east of sw corner

Customer: Building: Address:

Choice Schools Associates **Ivywood Classical Academy** 14356 Genoa Court Plymouth, MI July 22, 2019

Printed:

### **Sample Location Report**

Sample Number	Material Number	Homogeneous Material Description	Room Number	Sample Location
1001	10	Mastic - Black	109	3 ft east 8 ft south of nw corner
1002	10	Mastic - Black	106	4 ft west of ne corner
1101	11	Floor Tile - 12 inch grey	109	7 ft west 2 ft north of se corner
1102	11	Floor Tile - 12 inch grey	125	5 ft south of nw corner
1201	12	Ceramic Tile & Grout - 5 inch grey	C6	3 ft south 5 ft west of ne corner
1301	13	Stair Tread - Black with 1 inch circles	W. stair	17 ft east 3 ft south of nw corner
1401	14	Floor Tile - 12 inch grey with grey flecks	115	17 ft south of ne corner
1501	15	Ceramic Tile & Grout - 4 inch white	130	Northeast corner
1601	16	Ceramic Tile & Grout - 2 inch grey	201	5 ft south of nw corner
1701	17	Sink Undercoating - White	129	7 ft west of ne corner
1801	18	Ceiling Tile - 2x4 random punctures and pinholes	102	3 ft south 2 ft east of nw corner
2001	20	Ceiling Tile - 2x2 random punctures and pinholes	200	10 ft north 17 ft west of se corner
2101	21	Dampener Clothe - Black	222	12 ft south 9 ft west of ne corner
2301	23	Floor Tile - 12 inch white with grey and black flecks	230	6 ft east of sw corner
2401	24	Floor Tile - 12 inch grey with tiny bumps	205	23 ft south 4 ft east of nw corner



### Northern Analytical Services, LLC.

14870 225th Avenue, Big Rapids, MI 49307 - (231) 268-0004 - Fax (866) 214-4739

LEA: Building: Building No.: Address:

Printed:

Choice Schools Associates Ivywood Classical Academy

> 14356 Genoa Court Plymouth, MI

> > July 22, 2019

### **Response Action Report**

Room Number	Material Number	Homogeneous Material Description	Quantity	Units	Comments	Response Action (AHERA Ranking)
206	22	Fire Rated Door - Interior steel	2	Each	2 doors	maintain with O&M plan. (7)
222	22	Fire Rated Door - Interior steel	2	Each	2 doors	maintain with O&M plan. (7)
C5	19	Fire Rated Door - steel with 1 ft slit window	1	Each	1 door	maintain with O&M plan. (7)
E. Stair	19	Fire Rated Door - steel with 1 ft slit window	3	Each	3 doors	maintain with O&M plan. (7)
W. stair	19	Fire Rated Door - steel with 1 ft slit window	3	Each	3 doors	maintain with O&M plan. (7)



Customer: Building: Address:

Choice Schools Associates **Ivywood Classical Academy** 14356 Genoa Court Plymouth, MI July 22, 2019

Printed:

### **Asbestos Liability Report**

Material Number	Homogeneous Material Description	Asbestos Detected	Abatement Rate	Abatement Cost	Total Asbestos Liability for Building
19	Fire Rated Door - steel with 1 ft slit window	Yes - 7 Each	\$100.00	\$700.00	\$1,100.00
22	Fire Rated Door - Interior steel	Yes - 4 Each	\$100.00	\$400.00	





## The Identification Specialists

Analysis Report prepared for Northern Analytical Services, LLC

Report Date: 7/15/2019

**Project Name: Ivywood Academy** 

**Project #: 190185** 

SanAir ID#: 19033671



NVLAP LAB CODE 200870-0

1551 Oakbridge Dr. Suite B I Powhatan, Virginia 23139-8061 888.895.1177 804.897.1177 fax: 804.897.0070 I IAQ@SanAir.com SanAir.com



Name: Northern Analytical Services, LLC

Address: 14870 225th Avenue

Big Rapids, MI 49307

Phone: 231-679-0005

**Project Number:** 190185

P.O. Number:

Project Name: Ivywood Academy

Collected Date: 7/9/2019

Received Date: 7/11/2019 9:35:00 AM

Dear Juston Rehkopf,

We at SanAir would like to thank you for the work you recently submitted. The 31 sample(s) were received on Thursday, July 11, 2019 via FedEx. The final report(s) is enclosed for the following sample(s): 101, 102, 201, 202, 301, 302, 401, 501, 502, 601, 602, 701, 801, 802, 901, 902, 1001, 1002, 1101, 1102, 1201, 1301, 1401, 1501, 1601, 1701, 1801, 2001, 2101, 2301, 2401.

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,

Sandra Sobrino

Asbestos & Materials Laboratory Manager

Sandra Sobiino

SanAir Technologies Laboratory

Final Report Includes:

- Cover Letter

- Analysis Pages

- Disclaimers and Additional Information

#### Sample conditions:

- 31 samples in Good condition.



Name: Northern Analytical Services, LLC

Address: 14870 225th Avenue

Big Rapids, MI 49307

Phone: 231-679-0005

**Project Number:** 190185

P.O. Number:

Project Name: Ivywood Academy

Collected Date: 7/9/2019

Received Date: 7/11/2019 9:35:00 AM

Analyst: Pisula, Nicholas

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

	Stereoscopic	Com	ponents	
SanAir ID / Description	Appearance	% Fibrous	% Non-fibrous	Asbestos Fibers
101 / 19033671-001 Caulk-On Inside Of Exterior Steel Door Frame	Grey Non-Fibrous Homogeneous		100% Other	None Detected
102 / 19033671-002 Caulk-On Inside Of Exterior Steel Door Frame	Grey Non-Fibrous Homogeneous		100% Other	None Detected
201 / 19033671-003 Caulk-On Ext. Of Exterior Steel Door Frame	Brown Non-Fibrous Homogeneous		100% Other	None Detected
202 / 19033671-004 Caulk-On Ext. Of Exterior Steel Door Frame	Brown Non-Fibrous Homogeneous		100% Other	None Detected
301 / 19033671-005 Caulk-On Ext. Roll Up Door Frame	Brown Non-Fibrous Homogeneous		100% Other	None Detected
302 / 19033671-006 Caulk-On Ext. Roll Up Door Frame	Brown Non-Fibrous Homogeneous		100% Other	None Detected
401 / 19033671-007 Caulk-On Exterior Expansion Joint	Brown Non-Fibrous Homogeneous		100% Other	None Detected
501 / 19033671-008 Cove Base -4 Inch, Cove Base	Black Non-Fibrous Homogeneous		100% Other	None Detected
501 / 19033671-008 Cove Base -4 Inch, Mastic	Brown Non-Fibrous Homogeneous		100% Other	None Detected
502 / 19033671-009 Cove Base -4 Inch, Cove Base	Black Non-Fibrous Homogeneous		100% Other	None Detected

Analyst: Ah lil

Approved Signatory:

Analysis Date:

7/13/2019

7/15/2019 Date:



Name: Northern Analytical Services, LLC

Address: 14870 225th Avenue

Big Rapids, MI 49307

Phone: 231-679-0005

**Project Number:** 190185

P.O. Number:

Project Name: Ivywood Academy

Collected Date: 7/9/2019

Received Date: 7/11/2019 9:35:00 AM

Analyst: Pisula, Nicholas

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

	Stereoscopic	Com	ponents	
SanAir ID / Description	Appearance	% Fibrous	% Non-fibrous	Asbestos Fibers
502 / 19033671-009 Cove Base -4 Inch, Mastic	Brown Non-Fibrous Homogeneous		100% Other	None Detected
601 / 19033671-010 Caulk-On Ext. Aluminum Window Frame	Grey Non-Fibrous Homogeneous		100% Other	None Detected
602 / 19033671-011 Caulk-On Ext. Aluminum Window Frame	Grey Non-Fibrous Homogeneous		100% Other	None Detected
701 / 19033671-012 Caulk-On Int. Expansion Joint	White Non-Fibrous Homogeneous		100% Other	None Detected
801 / 19033671-013 Drywall & Joint Compound, Drywall	Grey Non-Fibrous Homogeneous		100% Other	None Detected
801 / 19033671-013 Drywall & Joint Compound, Joint Compound	White Non-Fibrous Homogeneous		100% Other	None Detected
802 / 19033671-014 Drywall & Joint Compound, Drywall	Grey Non-Fibrous Homogeneous		100% Other	None Detected
802 / 19033671-014 Drywall & Joint Compound, Joint Compound	White Non-Fibrous Homogeneous		100% Other	None Detected
901 / 19033671-015 Caulk-On Int Steel Door Frame	Grey Non-Fibrous Homogeneous		100% Other	None Detected
902 / 19033671-016 Caulk-On Int Steel Door Frame	Grey Non-Fibrous Homogeneous		100% Other	None Detected

Analysis Date:

Analyst: Ah lil

7/13/2019

Approved Signatory:

Date: 7/15/2019



Name: Northern Analytical Services, LLC

Address: 14870 225th Avenue

Big Rapids, MI 49307

Phone: 231-679-0005

**Project Number:** 190185

P.O. Number:

Project Name: Ivywood Academy

Collected Date: 7/9/2019

Received Date: 7/11/2019 9:35:00 AM

Analyst: Pisula, Nicholas

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

	Stereoscopic	Components		
SanAir ID / Description	Appearance	% Fibrous	% Non-fibrous	Asbestos Fibers
1001 / 19033671-017 Mastic	Black Non-Fibrous Homogeneous		100% Other	None Detected
1002 / 19033671-018 Mastic	Black Non-Fibrous Homogeneous		100% Other	None Detected
1101 / 19033671-019 Floor Tile -12Inch, Floor Tile	Grey Non-Fibrous Homogeneous		100% Other	None Detected
1101 / 19033671-019 Floor Tile -12Inch, Mastic	Black Non-Fibrous Homogeneous		100% Other	None Detected
1102 / 19033671-020 Floor Tile -12Inch, Floor Tile	Grey Non-Fibrous Homogeneous		100% Other	None Detected
1102 / 19033671-020 Floor Tile -12Inch, Mastic	Black Non-Fibrous Homogeneous		100% Other	None Detected
1201 / 19033671-021 Ceramic Tile & Grout 5 Inch, Tile	Grey Non-Fibrous Homogeneous		100% Other	None Detected
1201 / 19033671-021 Ceramic Tile & Grout 5 Inch, Grout	Grey Non-Fibrous Homogeneous		100% Other	None Detected
1301 / 19033671-022 Stair Tread, Stair Tread	Black Non-Fibrous Homogeneous		100% Other	None Detected
1301 / 19033671-022 Stair Tread, Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected

Analyst: Ah lil

Approved Signatory:

Analysis Date: 7/13/2019 Date: 7/15/2019



Name: Northern Analytical Services, LLC

Address: 14870 225th Avenue

Big Rapids, MI 49307

Phone: 231-679-0005

**Project Number:** 190185

P.O. Number:

Project Name: Ivywood Academy

Collected Date: 7/9/2019

Received Date: 7/11/2019 9:35:00 AM

Analyst: Pisula, Nicholas

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

	Stereoscopic	Comp	oonents	
SanAir ID / Description	Appearance	% Fibrous	% Non-fibrous	Asbestos Fibers
1401 / 19033671-023 Floor Tile -12 Inch, Floor Tile	Grey Non-Fibrous Homogeneous		100% Other	None Detected
1401 / 19033671-023 Floor Tile -12 Inch, Mastic	Black Non-Fibrous Homogeneous		100% Other	None Detected
1501 / 19033671-024 Ceramic Tile & Grout -4 Inch, Tile	White Non-Fibrous Homogeneous		100% Other	None Detected
1501 / 19033671-024 Ceramic Tile & Grout -4 Inch, Grout	Grey Non-Fibrous Homogeneous		100% Other	None Detected
1501 / 19033671-024 Ceramic Tile & Grout -4 Inch, Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected
1601 / 19033671-025 Ceramic Tile & Grout -2 Inch, Tile	Grey Non-Fibrous Homogeneous		100% Other	None Detected
1601 / 19033671-025 Ceramic Tile & Grout -2 Inch, Grout	Grey Non-Fibrous Homogeneous		100% Other	None Detected
1601 / 19033671-025 Ceramic Tile & Grout -2 Inch, Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected
1701 / 19033671-026 Sink Undercoating	White Non-Fibrous Homogeneous		100% Other	None Detected
1801 / 19033671-027 Ceiling Tile -2x4 Random	White Fibrous Homogeneous	60% Cellulose 15% Glass 15% Min. Wool	10% Other	None Detected

Analyst: Ah lil

Approved Signatory:

Analysis Date: 7/13/2019

Date: 7/15/2019



Name: Northern Analytical Services, LLC

Address: 14870 225th Avenue

Big Rapids, MI 49307

Phone: 231-679-0005

**Project Number:** 190185

P.O. Number:

Project Name: Ivywood Academy

Collected Date: 7/9/2019

Received Date: 7/11/2019 9:35:00 AM

Analyst: Pisula, Nicholas

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

	Stereoscopic	Components		
SanAir ID / Description	Appearance	% Fibrous	% Non-fibrous	Asbestos Fibers
2001 / 19033671-028 Ceiling Tile -2x2 Random	White Fibrous Homogeneous	60% Cellulose 15% Glass 15% Min. Wool	10% Other	None Detected
2101 / 19033671-029 Dampener Cloth	Black Non-Fibrous Homogeneous	20% Glass	80% Other	None Detected
2301 / 19033671-030 Floor Tile -12 Inch, Floor Tile	White Non-Fibrous Homogeneous		100% Other	None Detected
2301 / 19033671-030 Floor Tile -12 Inch, Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected
2401 / 19033671-031 Floor Tile -12 Inch, Floor Tile	Grey Non-Fibrous Homogeneous		100% Other	None Detected
2401 / 19033671-031 Floor Tile -12 Inch, Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected

Analyst: Nich Cil

Analysis Date: 7/13/2019

Approved Signatory:

Date: 7/15/2019

#### **Disclaimer**

The final report cannot be reproduced, except in full, without written authorization from SanAir. Fibers smaller than 5 microns cannot be seen with this method due to scope limitations. The accuracy of the results is dependent upon the client's sampling procedure and information provided to the laboratory by the client. SanAir assumes no responsibility for the sampling procedure and will provide evaluation reports based solely on the sample and information provided by the client. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Samples are held for a period of 60 days.

For NY state samples, method EPA 600/M4-82-020 is performed.

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 Certifications NVLAP lab code 200870 Citv of Philadelphia: ALL-460

PA Department of Environmental Protection Number: 68-05397

California License Number: 2915 Colorado License Number: AL-23143 Connecticut License Number: PH-0105 Massachusetts License Number: AA000222

Maine License Number: LB-0075 New York ELAP lab ID: 11983

Rhode Island License Number: AAL-126

Texas Department of State Health Services License Number: 300440

Commonwealth of Virginia 3333000323 Washington State License Number: C989 West Virginia License Number: LT000566

Vermont License: AL166318

Revision Date: 11/30/2017



1551 Oakbridge Drive Suite B Powhatan, VA 23139 804-897-1177 / 888-895-1177 Fax 804-897-0070 www.sanair.com

### Asbestos Chain of Custody

SanAir	ID	Number

19033671

						, , ,			
Company: Northe	Analytical Services, LLC Project #: 190 1 85					Collected b	y:505t	nkell	ropf
Address: 14870	225th Avenue Project Name: Ivy word Acad			Academ	7	Phone #:	231-67	9-0005	0
City, St., Zip: Big Ra	pids, MI 49307		Collected: 7-9-19		1	Fax #:	866-21	4-4739	
State of Collection: N	- 1					Email: Tos	tour Qu	orthern.	as. wur
Bu	ilk		Air			Soil/	/Vermic	ulite	
	A 600/R-93/116	4 ABA	PCM NIOSH 7400		ABSE			93/116 (Q	ual.)
	ve Stop	ABA-2	OSHA w/ TWA*		ABSP	PLM CA	RB 435 (l	_OD <1%)	
15-25 389 15-36893-5534	400 Point Count	ABTEM	TEM AHERA		ABSP1		•	OD 0.25%	. 1
	1000 Point Count	ABATN	TEM NIOSH 7402		ABSP2	PLM CA	RB 435 (l	_OD 0.1%)	)
ABBEN PLM EPA		ABT2	TEM Level II			_			
ABBCH TEM Cha		<u> </u>	New York ELAP	ı	ADVACA		Dust	D 0400	
ABBTW TEWERA	NOB L	PLM NY	PLM EPA 600/M4-82		ABWA	TEM Wip			
Wa	iter	ABEPA2		-020	ABDMV	I EIVI IVIIC	rovac AS	TM D-575	°
ABHE EPA 100		ABENY	NY ELAP 198.6 PLM	NOB [	Matrix	0	ther		
ABHE		ABBNY	NY ELAP 198.4 TEM			_			
Turn Around	3 HR (4 HR	TEM)	6 HR (8HR TEM)		12 HR			24 HR	ÀC.
Times 2 Days □ 3 Days □					4 Days			5 Days	
Special Instruction	ons Point count	for less than							
			ו 1%	Volu			Flow		
Special Instruction						Sample Type	Flow Rate*	Tim Start –	e*
	Samp	le Identifica	1 1%	or A	ume (	Sample		Tim	e*
Sample #	Samp coulli-on	ole Identifica	ation/Location	or A	ume (	Sample		Tim	e*
Sample #	Samp coulli-on	ole Identifica	ation/Location	or A	ume (	Sample		Tim	e*
Sample # // // // // // // // // // // // // //	could on	aside of e	ation/Location exterior steel de	or A	ume (	Sample		Tim	e*
Sample #  /0 (  /0 2  20	could on	aside of e	ation/Location	or A	ume (	Sample		Tim	e*
Sample #  /0 (  /0 2  20   20 2	could on	aside of e	ation/Location exterior steel de	or A	ume (	Sample		Tim	e*
Sample #  /0/ /02 20/ 20/ 30/	could-on a	aside of e	ation/Location exterior steel do exterior steel do	or A	ume (	Sample		Tim	e*
Sample #  /0/ /02 20/ 20/ 30/ 302	could-on a	exterior	ation/Location exterior steel de	or A	ume (	Sample		Tim	e*
Sample #  /0/ /02 20/ 20/ 30/ 302 40/	could-on a	exterior	ation/Location exterior steel do	or A	ume (	Sample		Tim	e*
Sample #  101 102 201 202 301 302 401 501	could-on a	est. vo	ation/Location exterior steel do	or A	ume Area	Sample		Tim	e*
Sample #  10( 102 201 201 301 302 401 501	could-on a	est. vo	ation/Location exterior steel do exterior steel do ell up down fr ex expansion un - black	or A	ume Area	Sample		Tim	e*
Sample #  101 102 201 202 301 302 401 501 601	could-on a	exterior exterior	ation/Location exterior steel do exterior steel do ell up down fr ex expansion un - black	or A wor frame ame goint.	ume Area	Sample		Tim	e*
Sample #  101 102 201 201 301 302 401 501 601 602 701	could-on a could-on cove 603	exterior exterior	ation/Location  exterior steel do  exterior steel d	or A wor frame ame goint.	ume Area	Sample		Tim	e*
Sample #  101 102 201 201 301 302 401 501 501 601	could-on	exterior exterior	ation/Location  exterior steel do  exterior steel d	or A wor frame ame goint	ume Area	Sample Type		Tim Start -	e*

Unless scheduled, the turn around time for all samples received after 3 pm EST Friday will begin at 8 am Monday morning. Weekend or Holiday work must be scheduled ahead of time and is charged for rush turn around time. Work with standard turn around time sent Priority Overnight and Billed to Recipient will be charged a \$10 shipping fee.

Page 9 of 10

19033771

Sample #	Sample Identification/Location	Sample Type	Flow Rate*	Time* Start – Stop	
801	drywall + joint compound				
802	,				
901	carlle-on into steel door frame				
902	\				
1001	black mastire				
1002					
(101	Floor Lile- /Lindh-grey				
1102	\ , , ,				
1201	ceramic tile + growt - 5; nch - grey				
(301	stair trend - black				
1401	Floor tile - 12 inch - grey w/ grey fleck	5			
1501	coramiz tile + grout - 4 inch - white				
1601	ceramic tile + growt - 2 inch - grey				
170(	sink underconting- white				
1801	ceiling tile - 2x4 - vandom punctures t	pinh	oles		
2001	ceiling tile - 2×2 - vandour punctures +p	inho	les		
2101	dampner cloth- black				
2301	Floor Lile- White w/ grey flecks				
2401	# Floor tile - 12 indr-gray with 64	mps			
	7	1			
					-2010-0017-0

Special Instructions			

Relinquished by	Relinquished by Date		Time Received by		Time	
peter Meen	7-1049	4:30 pu	110	1111 1 1 2019	435	
		,		302		

Unless scheduled, the turn around time for all samples received after 3 pm Friday will begin at 5 am mound, which weekend or Holiday work must be scheduled ahead of time and is charged for rush turn around time.

Work with standard turn around time sent Priority Overnight and Billed to Recipient will be charged a \$10 shipping fee.

Page 2 of 2





