

September 12, 2019

Mars Area School District

545 Route 228

Mars, Pennsylvania 16046

Attn: Mr. Randy Smith

Assistant Director of Buildings & Grounds

RE: Baseline Fungal Assessment Report

Mars Area School District

545 Route 228

Mars, Pennsylvania 16046

PSI Project No. 08164073-1

Dear Mr. Smith:

Enclosed please find the Baseline Fungal Assessment Report for the airborne bioaerosol sampling conducted by Professional Service Industries, Inc. (PSI), an Intertek company, at the above-referenced site on September 5, 2019.

SUMMARY OF FINDINGS

At your request and authorization, PSI conducted Baseline Fungal Assessments on September 5, 2019 in select classroom locations in the Primary Center; Centennial School; the Elementary School; and the High School buildings. Sampling in the Middle School will be conducted in the near future following the completion of renovation activities. In all, twenty-one (21) airborne bioaerosol (mold) samples were collected, including one (1) exterior comparison sample. The findings of the assessment activities are provided below:

- PSI's August 22, 2019 and September 5, 2019 walkthrough assessments did not appear to indicate a building-wide or district-wide mold issue.
- The baseline assessment and sampling were conducted on September 5, 2019 and included airborne bioaerosol (mold) sampling and a visual assessment for suspect mold. The Middle School was under renovation at the time of the assessment and was not included in the September 5th assessment and will be assessed upon completion of renovation activities.
- Total airborne counts in the Primary Center; Elementary School, Centennial School and the High School were very low compared to outdoors with no target molds indicative of a wet environment detected. Total indoor airborne bioaerosol (mold) concentrations throughout the four (4) schools ranged between 22 spores/m³ and 120 spores/m³, compared to 4,400 spores/m³ outdoors.



Fungal Assessment

Mars Area School District
Fungal Assessment Summary Report
PSI Project #08164073-1
September 12, 2019

CONCLUSIONS

Based on site observations and air sampling results, no evidence of an interior fungal amplification at the four (4) schools assessed was noted. As a precautionary measure, PSI recommends the following:

- Unit ventilators should remain operating in order to provide an adequate amount of fresh, outside air.
- Periodic (at least annually) cleaning of the HVAC unit ventilators should be conducted.
- Relative humidity levels should be monitored during the summer months to ensure levels remain within the recommended limits. If necessary, the use of dehumidifiers in locations where elevated relative humidity levels are noted is recommended.
- Carpets should be cleaned and dried in accordance with recommended procedures.
- Water stained ceiling tile should be replaced and the water source(s) repaired.

WARRANTY

PSI warrants that the findings contained herein have been prepared with the level of care and skill ordinarily exercised by professionals practicing in the community. The scope of work addressed readily accessible and exposed interior building areas. Observation or sampling of inaccessible areas such as behind walls was not performed. PSI's investigation did not address determining the source of moisture intrusion into the structure.

The sampling methods utilized by PSI in performing its services may have resulted in the disturbance or dispersal of mold spores. While we attempted to minimize such dispersal, we cannot eliminate it entirely. The Client acknowledges that mold is ubiquitous to the environment with mold amplification occurring when building materials are impacted by moisture. The Client further acknowledges that site conditions are outside of PSI's control, and that mold amplification will likely occur, or continue to occur, in the presence of moisture. As such, PSI cannot and shall not be held responsible for the occurrence or reoccurrence of mold amplification. No other warranties are implied or expressed.



Fungal Assessment

Mars Area School District
Fungal Assessment Summary Report
PSI Project #08164073-1
September 12, 2019

USE BY THIRD PARTIES

This report was prepared pursuant to the contract PSI has with the Mars Area School District. That contractual relationship included an exchange of information about the subject site that was unique and between PSI and its client and serves as the basis upon which this report was prepared. Because of the importance of the communication between PSI and its client, reliance or any use of this report by anyone other than the Mars Area School District, for whom it was prepared, is prohibited and therefore not foreseeable to PSI.

Reliance or use by any such third party without explicit written authorization does not make said third party a third-party beneficiary to PSI's contract with the Mars Area School District. Any such unauthorized reliance on or use of this report, including any of its information or conclusions, will be at third party's risk. For the same reasons, no warranties or representations, expressed or implied in this report, are made to any such third party.

UNIDENTIFIABLE CONDITIONS

This report is necessarily limited to the conditions observed and to the information available at the time of the work. Due to the nature of the work, there is a possibility that there may exist conditions which could not be identified within the scope of work or which were not apparent at the time of our site work. This report is also limited to information available from the client at the time it was conducted. The report may not represent all conditions at the subject site as it only reflects the information gathered from specific locations.

Respectfully Submitted,
PROFESSIONAL SERVICE INDUSTRIES, INC.



Michael N. Kopar, CIE
Environmental Project Manager

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Attachments:

- A. Microbiological Sampling - Analytical Results
- B. Inspector & Laboratory Certifications



ATTACHMENTS

ATTACHMENT A
ANALYTICAL RESULTS



SPORE TRAP REPORT

PSI, Inc.
850 Poplar Street
Pittsburgh, PA 15220

Attn: Mike Kopar

DATE

Reported: 9/11/19
Analyzed: 9/11/19
Received: 9/6/19
Sampled: 9/5/19

Work Order: 1909135

Project Number: 08164073
Project Name: Mars Area

Analyst: JM

AIHA-LAP, LLC. Lab #100373

TX License: LAB0145

TEST METHOD: PSI-WI-620-816

LAB NUMBER:	001A			002A			003A		
Client ID:	4771			4742			0699		
Location:	Outside @ Admin			PC - 406			PC - 305		
Comments:									
Detection Limit(spores/m ³):	13			13			13		
Hyphal Fragments	3	40		1	13		2	27	
Pollen	1	13							
Sample Description:	Air-O-Cell			Air-O-Cell			Air-O-Cell		
	raw ct.	spores/m ³	%	raw ct.	spores/m ³	%	raw ct.	spores/m ³	%
Cladosporium sp.	57	760	17.54				1	13	33.33
Ascospores	148	2000	45.54	3	40	60.00			
Basidiospores	72	960	22.15						
Smuts/Myxomycetes	16	210	4.92	1	13	20.00			
Peronospora/Oidium sp.									
Pen./Asp. Group	4	53	1.23						
Alternaria sp.	1	13	0.31						
Drechslera/Bipolaris	1	13	0.31						
Spegazzinia sp.	1	13	0.31						
Tetraploa sp.									
Curvularia sp.									
Stachybotrys sp.									
Unknown/Brown*	3	40	0.92	1	13	20.00	1	13	33.33
Torula sp.	1	13	0.31						
Ulocladium sp.									
Chaetomium sp.									
Pithomyces sp.							1	13	33.33
Epicoccum sp.									
Polythrincium sp.									
Pestalotia sp.									
Cercospora sp.									
Rusts	2	27	0.62						
Nigrospora sp.									
Ganoderma sp.	19	250	5.85						
Background debris (1-5)**	3			3			3		
Sample Volume (liters)	75			75			75		
TOTAL †	325	4,400	100	5	66	100	3	39	100

Total % may not equal 100 due to rounding.



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PSI, Inc.
850 Poplar Street
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Work Order: 1909135
Project Number: 08164073
Project Name: Mars Area

Analyst: JM

Attn: Mike Kopar

AIHA-LAP, LLC. Lab #100373

TX License: LAB0145

TEST METHOD: PSI-WI-620-816

LAB NUMBER:	004A			005A			006A		
Client ID:	4760			4773			4782		
Location:	PC - Hall Outside Cafeteria			PC - 112			Cent - 114		
Comments:									
Detection Limit(spores/m ³):	13			13			13		
Hyphal Fragments	1	13		2	27				
Pollen									
Sample Description:	Air-O-Cell			Air-O-Cell			Air-O-Cell		
	raw ct.	spores/m ³	%	raw ct.	spores/m ³	%	raw ct.	spores/m ³	%
Cladosporium sp.									
Ascospores	2	27	33.33	3	40	37.50	1	13	25.00
Basidiospores				1	13	12.50	2	27	50.00
Smuts/Myxomycetes	1	13	16.67						
Peronospora/Oidium sp.									
Pen./Asp. Group				2	27	25.00			
Alternaria sp.									
Drechslera/Bipolaris									
Spegazzinia sp.									
Tetraploa sp.									
Curvularia sp.									
Stachybotrys sp.									
Unknown/Brown*	1	13	16.67	1	13	12.50	1	13	25.00
Torula sp.									
Ulocladium sp.									
Chaetomium sp.									
Pithomyces sp.	2	27	33.33						
Epicoccum sp.									
Polythrincium sp.									
Pestalotia sp.									
Cercospora sp.									
Rusts									
Nigrospora sp.									
Ganoderma sp.				1	13	12.50			
Background debris (1-5)**	3			3			3		
Sample Volume (liters)	75			75			75		
TOTAL †	6	80	100	8	110	100	4	53	100

Total % may not equal 100 due to rounding.



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Attn: Mike Kopar

AIHA-LAP, LLC. Lab #100373

TX License: LAB0145

TEST METHOD: PSI-WI-620-816

LAB NUMBER:	007A			008A			009A		
Client ID:	4751			4758			4762		
Location:	Cent - Library			Cent - 403			Cent - 213 (Sensory)		
Comments:									
Detection Limit(spores/m ³):	13			13			13		
Hyphal Fragments	1	13		1	13				
Pollen									
Sample Description:	Air-O-Cell			Air-O-Cell			Air-O-Cell		
	raw ct.	spores/m ³	%	raw ct.	spores/m ³	%	raw ct.	spores/m ³	%
Cladosporium sp.	2	27	40.00	1	13	25.00			
Ascospores							2	27	66.67
Basidiospores	1	13	20.00	2	27	50.00	1	13	33.33
Smuts/Myxomycetes	1	13	20.00						
Peronospora/Oidium sp.									
Pen./Asp. Group									
Alternaria sp.									
Drechslera/Bipolaris									
Spegazzinia sp.									
Tetraploa sp.									
Curvularia sp.									
Stachybotrys sp.									
Unknown/Brown*	1	13	20.00	1	13	25.00			
Torula sp.									
Ulocladium sp.									
Chaetomium sp.									
Pithomyces sp.									
Epicoccum sp.									
Polythrincium sp.									
Pestalotia sp.									
Cercospora sp.									
Rusts									
Nigrospora sp.									
Ganoderma sp.									
Background debris (1-5)**	3			3			2		
Sample Volume (liters)	75			75			75		
TOTAL †	5	66	100	4	53	100	3	40	100

Total % may not equal 100 due to rounding.



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Work Order: 1909135
Project Number: 08164073
Project Name: Mars Area

Analyst: JM

Attn: Mike Kopar

AIHA-LAP, LLC. Lab #100373

TX License: LAB0145

TEST METHOD: PSI-WI-620-816

LAB NUMBER:	010A			011A			012A		
Client ID:	4852			3995			0729		
Location:	ES - Library			ES - Boil			HS - Room 137		
Comments:									
Detection Limit(spores/m ³):	13			13			13		
Hyphal Fragments	1	13		1	13		1	13	
Pollen									
Sample Description:	Air-O-Cell			Air-O-Cell			Air-O-Cell		
	raw ct.	spores/m ³	%	raw ct.	spores/m ³	%	raw ct.	spores/m ³	%
Cladosporium sp.	1	13	14.29						
Ascospores	4	53	57.14						
Basidiospores	1	13	14.29						
Smuts/Myxomycetes				1	13	50.00			
Peronospora/Oidium sp.									
Pen./Asp. Group									
Alternaria sp.									
Drechslera/Bipolaris									
Spegazzinia sp.									
Tetraploa sp.									
Curvularia sp.							1	13	50.00
Stachybotrys sp.									
Unknown/Brown*	1	13	14.29	1	13	50.00	1	13	50.00
Torula sp.									
Ulocladium sp.									
Chaetomium sp.									
Pithomyces sp.									
Epicoccum sp.									
Polythrincium sp.									
Pestalotia sp.									
Cercospora sp.									
Rusts									
Nigrospora sp.									
Ganoderma sp.									
Background debris (1-5)**	3			3			3		
Sample Volume (liters)	75			75			75		
TOTAL †	7	92	100	2	26	100	2	26	100

Total % may not equal 100 due to rounding.

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850 Poplar Street
Pittsburgh, PA 15220

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Received: 9/6/19
Sampled: 9/5/19

Work Order: 1909135
Project Number: 08164073
Project Name: Mars Area

Analyst: JM

Attn: Mike Kopar

AIHA-LAP, LLC. Lab #100373

TX License: LAB0145

TEST METHOD: PSI-WI-620-816

LAB NUMBER:	013A			014A			015A		
Client ID:	4745			4768			4876		
Location:	HS - Room 206			HS - Room 234			HS - Room 104		
Comments:									
Detection Limit(spores/m ³):	13			13			11		
Hyphal Fragments	1	13					1	11	
Pollen									
Sample Description:	Air-O-Cell			Air-O-Cell			Air-O-Cell		
	raw ct.	spores/m ³	%	raw ct.	spores/m ³	%	raw ct.	spores/m ³	%
Cladosporium sp.									
Ascospores	2	27	50.00	1	13	50.00	1	11	50.00
Basidiospores	1	13	25.00	1	13	50.00			
Smuts/Myxomycetes	1	13	25.00						
Peronospora/Oidium sp.									
Pen./Asp. Group									
Alternaria sp.									
Drechslera/Bipolaris									
Spegazzinia sp.									
Tetraploa sp.									
Curvularia sp.									
Stachybotrys sp.									
Unknown/Brown*							1	11	50.00
Torula sp.									
Ulocladium sp.									
Chaetomium sp.									
Pithomyces sp.									
Epicoccum sp.									
Polythrincium sp.									
Pestalotia sp.									
Cercospora sp.									
Rusts									
Nigrospora sp.									
Ganoderma sp.									
Background debris (1-5)**	3			3			3		
Sample Volume (liters)	75			75			90		
TOTAL †	4	53	100	2	26	100	2	22	100

Total % may not equal 100 due to rounding.



SPORE TRAP REPORT

PSI, Inc.
850 Poplar Street
Pittsburgh, PA 15220

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Analyzed: 9/11/19
Received: 9/6/19
Sampled: 9/5/19

Work Order: 1909135
Project Number: 08164073
Project Name: Mars Area

Analyst: JM

Attn: Mike Kopar

AIHA-LAP, LLC. Lab #100373

TX License: LAB0145

TEST METHOD: PSI-WI-620-816

LAB NUMBER:	016A			017A			018A		
Client ID:	4833			5170			4856		
Location:	HS - Library			HS - 27			ES - B107		
Comments:									
Detection Limit(spores/m ³):	13			13			13		
Hyphal Fragments	2	27					1	13	
Pollen									
Sample Description:	Air-O-Cell			Air-O-Cell			Air-O-Cell		
	raw ct.	spores/m ³	%	raw ct.	spores/m ³	%	raw ct.	spores/m ³	%
Cladosporium sp.									
Ascospores	4	53	57.14	1	13	50.00	3	40	75.00
Basidiospores	2	27	28.57	1	13	50.00			
Smuts/Myxomycetes							1	13	25.00
Peronospora/Oidium sp.									
Pen./Asp. Group									
Alternaria sp.									
Drechslera/Bipolaris									
Spegazzinia sp.									
Tetraploa sp.									
Curvularia sp.									
Stachybotrys sp.									
Unknown/Brown*	1	13	14.29						
Torula sp.									
Ulocladium sp.									
Chaetomium sp.									
Pithomyces sp.									
Epicoccum sp.									
Polythrincium sp.									
Pestalotia sp.									
Cercospora sp.									
Rusts									
Nigrospora sp.									
Ganoderma sp.									
Background debris (1-5)**	3			3			3		
Sample Volume (liters)	75			75			75		
TOTAL †	7	93	100	2	26	100	4	53	100

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SPORE TRAP REPORT

PSI, Inc.
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Pittsburgh, PA 15220

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Sampled: 9/5/19

Work Order: 1909135
Project Number: 08164073
Project Name: Mars Area

Analyst: JM

Attn: Mike Kopar

AIHA-LAP, LLC. Lab #100373

TX License: LAB0145

TEST METHOD: PSI-WI-620-816

LAB NUMBER:	019A			020A			021A		
Client ID:	3978			4851			4854		
Location:	ES - Room C010			ES - C128			ES - A002 Music		
Comments:									
Detection Limit(spores/m ³):	13			13			13		
Hyphal Fragments	1	13		1	13		1	13	
Pollen									
Sample Description:	Air-O-Cell			Air-O-Cell			Air-O-Cell		
	raw ct.	spores/m ³	%	raw ct.	spores/m ³	%	raw ct.	spores/m ³	%
Cladosporium sp.							6	80	66.67
Ascospores	2	27	40.00	1	13	25.00	2	27	22.22
Basidiospores	1	13	20.00	1	13	25.00			
Smuts/Myxomycetes	1	13	20.00				1	13	11.11
Peronospora/Oidium sp.									
Pen./Asp. Group									
Alternaria sp.									
Drechslera/Bipolaris									
Spegazzinia sp.									
Tetraploa sp.									
Curvularia sp.									
Stachybotrys sp.									
Unknown/Brown*	1	13	20.00	1	13	25.00			
Torula sp.									
Ulocladium sp.									
Chaetomium sp.									
Pithomyces sp.									
Epicoccum sp.									
Polythrincium sp.									
Pestalotia sp.									
Cercospora sp.									
Rusts									
Nigrospora sp.									
Ganoderma sp.				1	13	25.00			
Background debris (1-5)**	3			3			3		
Sample Volume (liters)	75			75			75		
TOTAL †	5	66	100	4	52	100	9	120	100

Total % may not equal 100 due to rounding.

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Project Number: 08164073
Project Name: Mars Area
Analyst: JM

Specific Sample Comments:

General Report Comments:

* Unknown/brown are spores without a distinctive morphology on spore traps and non-viable surface samples.

** Background debris is the amount of particulate matter present on the slide and is graded from 1-5 with 1 being very little, while a debris rating of 5 is unreadable.

The higher the rating the more likelihood spores may be underestimated.

A rating of 4 should be interpreted as minimal counts and may actually be higher than reported.

‡ Total spores/m³ has been rounded to two significant figures to reflect analytical precision.

All samples were analyzed at 400x or 600x magnification unless noted.

The reporting limit is one spore/item adjusted for volume. Entire trace was analyzed unless noted.

Results relate only to items tested. Results are not corrected for blank data.

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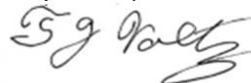
Samples will be disposed of within thirty (30) days unless notified in writing by the client.

Results based on volume measurement provided by the client.

Disclaimer: The laboratory is not responsible for interpretation of test results or for methods used during sampling.

All samples were in acceptable condition unless noted.

Respectfully submitted, PSI, Inc.



Tim Voltz, Approved Signatory

CHAIN OF CUSTODY - MOLD

1909135



IH Laboratory
850 Poplar Street
Pittsburgh, PA 15220
412-922-4001 ext. 228/313

Project Information	
Project Name:	MACS AREA
Project No:	Primary Center + Centennial School
PO Number:	08164073
Sample Date:	9.5.19

Send Results To:	
Company:	
Attn:	
Address:	
Telephone:	
Email:	

Send Invoice To:	
Company:	
Attn:	
Address:	
Telephone:	
Email:	

Requested Turn Around Time		
Same Day	1-2 Day (24-48 hr)	3-5 Day
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Requested Date:		

Environmental Conditions						
	Fog	Rain	Wind	Snow	Clear	Temperature:
Light	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Inside Outside
Moderate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		72 72
Heavy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Relative Humidity
Notes:						Inside Outside
						/

Laboratory Use Only		Y	N
All Samples In Acceptable Condition:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Shipping Charges Apply:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Sample Analysis	Code
Direct Exam	DE
Fungal Culture & Genus ID (non-speciation)	FC/G
Fungal Culture & Genus ID Speciation (top 3 species)	FC/G sp.
Bacteria w/Genus ID (3 most predominant)	BAC
Sewage Screen	SS
Legionella Culture	LC
Other (list)	Oth

Sample ID	Location Description	Sample Type Code	Total Volume/ Area	Sample Analysis Code	Notes:
4771	OUTSIDE @ Admin	Air	75	DE	
4742	PC-406				
0699	PC-305				
4760	PC- Hall outside Cafeteria				
4773	PC-112				
4782	Cent-114				past roof leaks
4751 4751	Cent- Library				
4758	Cent- 403				
4762	Cent- 213 (Sensory)				
4852	B- Library				

Sample Type	Code
Air	A
Swab	S
Tape Lift	TL
Bulk/Dust	BD
Plate	P
Water	W
Other (list)	O

3948	ES- BOIL	Relinquished by:	Date/Time	Received by:	Date/Time
		Michael Kupar	9/5/19	[Signature]	9/6/19 0800

Special Instructions / Comments:	
----------------------------------	--

CHAIN OF CUSTODY - MOLD

1909135



IH Laboratory
850 Poplar Street
Pittsburgh, PA 15220
412-922-4001 ext. 228/313

Project Information	
Project Name:	MARS ALMA
Project No:	08164073
PO Number:	Hight School + ERM
Sample Date:	9.5.19

Send Results To:	
Company:	
Attn:	
Address:	
Telephone:	
Email:	

Send Invoice To:	
Company:	
Attn:	
Address:	
Telephone:	
Email:	

Requested Turn Around Time		
Same Day	1-2 Day (24-48 hr)	3-5 Day
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Requested Date:		

Environmental Conditions						
	Fog	Rain	Wind	Snow	Clear	Temperature:
Light	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Inside Outside
Moderate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		/
Heavy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Relative Humidity
Notes:						Inside Outside
						/

Sample Analysis	Code
Direct Exam	DE
Fungal Culture & Genus ID (non-speciation)	FC/G
Fungal Culture & Genus ID Speciation (top 3 species)	FC/G sp.
Bacteria w/Genus ID (3 most predominant)	BAC
Sewage Screen	SS
Legionella Culture	LC
Other (list)	Oth

Laboratory Use Only		Y	N
All Samples In Acceptable Condition:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments:	<input checked="" type="checkbox"/>		
Shipping Charges Apply:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Sample ID	Location Description	Sample Type Code	Total Volume/ Area	Sample Analysis Code	Notes:
0729	H5 - Room 137	Air	75	DE	
4745	H5 - ROOM 206		75		
4768	H5 - Room 234		75		
4876	H5 - Room 104		90		
4833	H5 - Library		75		
5170	H3 - 27		75		Basement level
4856	E3 - B107		75		
3978	E3 - C010		75		
4851	E3 - C128		75		
4854	E3 - ADD2 MUSIC		75		

Sample Type	Code
Air	A
Swab	S
Tape Lift	TL
Bulk/Dust	BD
Plate	P
Water	W
Other (list)	O

Relinquished by:	Date/Time	Received by:	Date/Time
Michael Kopin	9/5/19	[Signature]	9/6/19 0800

Special Instructions / Comments:	
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ATTACHMENT B
CERTIFICATIONS



American Council for Accredited Certification

hereby certifies that

Michael N. Kopar

has met all the specific standards and qualifications of the re-certification process,
including continued professional development, and is hereby re-certified as a

CIE

**Council-certified
Indoor Environmentalist**

This certificate expires on June 30, 2020.

Charles F. Wiles, Executive Director

00861

Certificate Number

This certificate remains the property of the American Council for Accredited Certification.