



Vincent Mascia &lt;masciav@southmoreland.net&gt;

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**air sampling results**

2 messages

Mike Kopar &lt;mike.kopar@psiusa.com&gt;

Wed, Aug 29, 2018 at 2:36 PM

To: "clarad@southmoreland.net" &lt;clarad@southmoreland.net&gt;, Lee Mizwa &lt;mizwal@southmoreland.net&gt;

Cc: "masciav@southmoreland.net" &lt;masciav@southmoreland.net&gt;, "suttonr@southmoreland.net"

&lt;suttonr@southmoreland.net&gt;, "harriss@southmoreland.net" &lt;harriss@southmoreland.net&gt;, Dave Cinciripini

&lt;dave.cinciripini@us.belfor.com&gt;, Doug Finke &lt;doug.finke@psiusa.com&gt;

HI All:

Attached are the air and swab sampling result from yesterday at the High school. As suspected, there were slightly elevated airborne counts in the band and chorus areas. These are the areas where Belfor has contained and is initiating cleaning/drying activities. The air sampling results from the adjacent areas were much lower and what we would expect to find. The mold type that was slightly elevated was Pen/Asp. When you compare the Pen/Asp levels in the band and chorus areas to outside and the other locations, you will see that they are slightly elevated. Based on the air sampling results and Doug's observations, it appears that the visible mold and slightly elevated counts are isolated to the areas that have been contained. The other locations show low counts than outdoors and no molds of concern. Please contact us with any questions.

**Michael Kopar****Project Manager****Building & Construction****Intertek-PSI**

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Intertek-PSI, 850 Poplar Street, Pittsburgh, PA 15220

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**PSI - [www.psiusa.com](http://www.psiusa.com) - Offices Nationwide**  
Environmental Consulting \* Geotechnical Engineering

Construction Materials Testing & Engineering \* Industrial Hygiene  
NDE \* Facilities & Roof Consulting \* Specialty Engineering & Testing

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4 attachments

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107K

 1808789\_816.pdf  
80K

 1808789coc\_816.pdf  
93K

 1808786coc\_816.pdf  
223K

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Lee Mizwa <mizwal@southmoreland.net>  
To: Vincent Mascia <masciav@southmoreland.net>

Wed, Aug 29, 2018 at 2:37 PM

[Quoted text hidden]

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7 attachments

intertek  
**psi** image003.png  
6K

intertek  
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**MICROBIOLOGICAL WORK PLAN/CLEAN-UP SCOPE OF WORK**  
**FOR:**  
**SOUTHMORELAND HIGH SCHOOL**  
**2351 PA-981**  
**ALVERTON, PA 15612**  
**BAND ROOM, CHORUS ROOM AND ADJOINING OFFICES AND STORAGE ROOMS**

**PSI PROJECT No. 08163542-2**  
**AUGUST 28, 2018**

This remediation project will consist of the clean-up and drying activities following the recent mold growth originating in the Band Room Storage, Band Room Electronics Room and Chorus Room in Southmoreland High School located at 2351 PA-951 in Alverton, Pennsylvania. Due to high humidity and temperatures in these rooms, music equipment was impacted by suspect mold growth. Drying activities were initiated immediately after a walkthrough of the impacted areas was conducted.

The Remediation Contractor is responsible for the proper removal/clean-up of impacted building materials in order to prevent microbial growth on surfaces (removal of non-structural/mechanical components or decontamination of permanent building components) in the areas as written in this scope of work. The remediation should be conducted in accordance with the **US EPA Guidance Document: "Microbiological Remediation in Schools and Commercial Buildings,"** dated May 8, 2002 (or most recent). In addition, the **Institute of Inspection, Cleaning, Restoration and Certification (IICRC) Standard and Reference Guides S520 (Mold Remediation Standard) and S500 (Professional Water Damage Restoration)** (most recent) shall apply. In the case of conflicting standards, the more stringent shall apply.

#### **1.0 PROJECT UNDERSTANDING**

The following remediation activities are to be performed throughout the impacted areas of the building in the Band Room and its adjoining offices and storage rooms, as well as the Chorus Room and its adjoining offices. The impacted areas will generally include music equipment, music equipment cases, and music sheet stands. It is possible that other materials may have also been impacted, however, no visible mold was observed or reported on the building materials or furnishings inspected. Impact to these items, if any, would be from settled or residual spores.

PSI conducted a limited inspection of each section, so conditions the information presented herein is considered to be general in nature. Unique conditions may apply to some areas. If a situation arises that was not addressed in this protocol, PSI should be contacted to discuss.



## **2.0 IMPACTED AREAS**

For the purposes of the microbiological remediation/clean-up, the impacted areas are considered to consist of the following:

- Suspect mold impacted music instruments, music equipment cases, music sheet stands.
- Water and/or mold impacted carpet and flooring.
- Suspended ceiling tile (not suspected to be part of this impact but should be taken care of to ensure a clean area)

## **3.0 SCOPE OF WORK**

The remediation scope of work consists of the following for items with or near visible mold:

- Removal of mold impacted folders in hallway outside Chorus Room.
- Cleaning of the impacted music instruments, music equipment cases and music sheet stands
- Remove and replace the water stained ceiling tile
- Drying and cleaning of the water impacted carpet.
- Cleaning of porous materials in the impacted areas
- PSI recommends HEPA vacuuming and wet wiping all remaining building materials that have not been water damaged to remove residual mold spores resulting from the construction activity.
- Wet-wiping and/or HEPA vacuuming of contents in the subject area
- In order to aid in the prevention of mold spore migration, the use of HEPA-filtered air scrubbers placed in the general area being cleaned is recommended.

It is the responsibility of the Mold Remediation Contractor to identify and remove or clean any hidden mold discovered during the remediation.



## 4.0 WORK PROCEDURES

### 4.1 GENERAL

The following section is a General Remediation/Clean-Up Protocol for addressing indoor fungal contamination. The protocol outlines the basic steps to be taken in order to mitigate the microbiological hazard while minimizing the spread of mold particles and, at the same time, ensuring that the workers are properly protected.

This guideline is for the use of the Mold Remediation Contractor. It is intended to provide general guidance for controlled removal, biocide treatment and disposal of grossly affected structural materials and contents as well as the cleaning of areas prior to re-occupancy. Additional, site-specific measures may be warranted for personnel safety. PSI assumes no liability for worker safety, which shall remain the sole responsibility of the contractor.

As a general guidance document, this protocol cannot and does not address every microbiological remediation scenario that may arise. Unique circumstances may exist which will require alternative approaches. When such circumstances develop during the course of remediation activities, PSI should be consulted for advice on the appropriate action.

### 4.2 PRIOR TO BEGINNING WORK

The remediation area will be isolated and removal will be conducted in the isolated work area. Upon completion of the work and the owner's representative's sampling meeting the clearance criteria, the work area containment barriers will be removed. If the clearance criteria is not met prior to the occupants returning, the isolated work area will remain in place until the clearance criteria is met.

Warning signs with the following language may be posted at each approach to each work area:

**NOTICE:**  
Mold/Moisture Remediation Project in Progress  
Authorized Personnel Only  
Respirators & Protective Clothing are required in This Area



### 4.3 PERSONAL PROTECTIVE EQUIPMENT

If elevated air counts or visible mold is encountered, all personnel employed in demolition and/or removal/clean-up activities of contaminated building contents and structural materials, and the fungicidal treatment of the structure will be required to use, at a minimum, the following OSHA Level C Personal Protective Equipment.

1. Half-face respirators equipped with Organic Vapor and P-100 HEPA filter cartridges (minimum).
2. Disposable coveralls with booties (or rubber outer boots over work boots) and hood.
3. Rubber latex or leather work gloves.
4. Work boots.
5. Eye Goggles

At the end of each day's work, the disposable gear will be discarded; the respirators and goggles will be wiped down with 70 percent rubbing alcohol sponges (or equivalent) wherever contact with the skin occurs. Work gloves and boots will be HEPA-vacuumed then sprayed with aerosol Lysol® disinfectant spray (or equivalent) to kill any viable microbes.

Respirators will be worn until remediators are outside the remediation zone. PPE must be worn throughout the final stages of HEPA vacuuming and damp-wiping of the contained area. PPE must also be worn during HEPA vacuum filter changes or cleanup of the HEPA vacuum.

The health and safety of site workers is the responsibility of the Mold Remediation Contractor.

### 4.4 REMEDIATION ZONE ISOLATION

Where necessary, the Mold Remediation Contractor will construct a containment. Fire-rated polyethylene sheeting will be used to create a barrier between the active work area and other parts of the building. All windows and exterior doors within the isolated work area will be closed, except for the one door used to remove materials and contents for disposal and/or cleaning and storage. The remediation areas will include the band, chorus and associated corridors, storage rooms and offices where water-impacted building materials were identified.

A decontamination chamber or airlock may be constructed for entry into and exit from the remediation area. The entryways to the airlock from the outside and from the airlock to the main containment area will consist of a slit entry with covering flaps on the outside surface of each slit entry. The chamber will be large enough to hold a waste container and allow a person to put on and remove



personal protective equipment (PPE). All contaminated PPE, except respirators, will be placed in a sealed bag while in this chamber.

To maintain a negative pressure within the interior, a high volume HEPA filtration unit is installed in the structure with its discharge duct leading to the outside through a convenient window or door, if feasible. The discharge duct must be sealed into the window or door opening with plastic sheeting and duct tape. The negative pressure produced by the HEPA machine will trap and hold dust (which will contain mold spores and fragments, bacterial and other potential allergens, etc.) and minimize its spread throughout the interior during remediation.

Periodic inspections and evaluation of the containment areas should be performed by the contractor and independent industrial hygienist.

All return air vents will be covered with an approved filter to prevent spore migration.

The Mold Remediation Contractor will ensure the structural integrity of the containment area(s). The Mold Consultant (MC) may also conduct periodic inspections of the containment area(s).

#### 4.5 REMEDIATION OF BUILDING COMPONENTS & FURNISHINGS

All debris will be bagged or wrapped in plastic and placed in a covered waste cart for disposal in a dumpster located in a secured area. The dumpster shall be covered while not in use. This material is not considered hazardous waste.

All affected surfaces are to be HEPA vacuumed then wet wiped with an approved sanitizer. (If there is no visible mold, only HEPA-vacuuuming is required to prevent potential damage from cleaning chemicals). The sanitizer/biocide must be applied using adequate ventilation in accordance with the manufacturer's recommended guidelines. The use of dehumidifiers to allow proper timely drying is also recommended. The Mold Remediation Contractor will utilize EPA approved sanitizing materials. Any biocides or coatings must meet the following requirements: they must have an EPA approval number; must be used for the approved purpose; and must be used in accordance with label instructions. Adequate ventilation must be maintained and proper PPE worn during use of any chemical biocides and cleaners.

Prior to the removal of the containment area, a visual examination of all remediated areas will be conducted by the owner's representative (qualified consultant) to ensure that the decontamination and clean-up has been successful. The owner's representative (qualified consultant) may collect air and/or surface swab samples from remediated areas for microbial analysis (refer to Section 5.0).



#### 4.6 CLEANING

All remaining horizontal and vertical surfaces in the impacted areas will be HEPA vacuumed. Germicidal wiping with a bleach/water solution (or equivalent) may also be warranted on all walls/floors to kill existing residual spores.

### **5.0 Inspection & Post-Remediation Testing**

During the remediation process, periodic inspections may be conducted by the owner's representative. These inspections will be conducted to verify that the work procedures are being followed, to check the progress of the remediation, and to provide guidance and consulting as to the extent and nature of the contamination.

Upon completion of remediation activities, the subject area(s) will be visually inspected for evidence of visible mold and mold-like odors. Post-remediation air sampling may be conducted. If no evidence of visible mold, mold-like odors or surface moisture is detected, then the subject area may be deemed as safe for re-occupancy.

For "post-remediation" sampling:

- Post-remediation sampling may be conducted by the owner's representative. A minimum of 3 interior samples are recommended.
- The remediation containment will be evaluated for the presence of total (viable and non-viable) fungal spores using Air-O-Cell® or equivalent cassettes. The calibration of the air sampling pump will be checked before each sampling event to ensure the pump is operating at the appropriate flow rate. The air samples will be submitted to an AIHA accredited and licensed analytical laboratory for analysis.
- An estimated 3 surface swab samples will be collected to verify post-cleaning conditions. The surface swab samples will be analyzed via direct exam. Surfaces with 3+ or 4+ ratings shall be deemed unacceptable.
- Indoor airborne microbial levels should not be significantly elevated compared to those of the outdoor control sample(s).
- Generally, similar mold types should be detected indoors and outside.
- No "target" species of concern that are indicators of wet interior conditions (i.e. *Stachybotrys*, *Ulocladium* or *Chaetomium*) should be present. Indicator molds such as *Pen/Asp* should also be at a minimum.

A visual inspection, air and/or surface sampling will be used to establish "clearance" of the remediated areas. If elevated air levels are obtained and no visible source detected, the contractor will be instructed to complete additional demolition or cleaning activities to try and determine the contamination source. Once all contamination sources have been identified and addressed, the post-remediation results will be reviewed and a determination will be made if the area is cleared for re-occupancy. At no time will the containment area be removed without achieving clean air.





All other work aspects not specifically addressed by this scope shall be conducted in accordance with the US EPA Guidance Document: "Microbiological Remediation in Schools and Commercial Buildings," dated May 8, 2002 (or latest revision), and/or IICRC Standard and Reference Guides S520 and S500.

#### **6.0 Additional Demolition and Cleaning (If necessary)**

Due to the nature of this type of remediation project, additional areas of impact may be encountered during site work, or additional cleaning and post-remediation sampling may be required at additional cost. No additional work shall be performed without prior authorization by the client.

**Note: If clearance criteria as outlined in this remediation protocol are considered to be unacceptable, the remediation contractor (RC) shall re-sanitize the needed areas and shall perform necessary corrective action, as determined by the owner and their designated representative. Additional sampling will be conducted and sent to the laboratory for analysis with a rush turn-around-time (TAT) frame. The additional sampling costs shall be the responsibility of the RC.**

#### **7.0 Disposal of Material**

If mold-impacted waste is removed, it must be placed into a disposal container promptly. Disposal containers, at a minimum, shall consist of double-bagging using 6-mil polyethylene bags. Bags will be taped to form an airtight seal and labeled appropriately. Waste from HEPA-filtered vacuums and other cleaning items shall be double bagged in 6-mil polyethylene bags.

Workers shall wear PPE as indicated in Section 4.3 prior to and during removal and transportation of disposable materials from the building. The poly surfaces shall be HEPA-vacuumed, and damp wiped with an appropriate cleaning agent just prior to being removed from the contaminated area or decontamination chamber. Also to prevent dust aerosolization during transportation, the bags shall remain sealed and shall not be dropped, thrown or handled roughly. If debris must be staged on site for a short period of time prior to disposal, it shall be stored in a secured location.

Generally, mold contaminated materials have no special disposal requirements; however, materials shall be properly disposed of in accordance to federal, state and local regulations. If regulated materials are present (e.g. those containing asbestos, lead or other restricted waste), they must be abated and disposed in accordance with federal, state or local disposal laws and regulations.

**END OF DOCUMENT**







## SPORE TRAP REPORT

PSI, Inc.  
850 Poplar Street  
Pittsburgh, PA 15220

Attn: Will Nicastro

DATE  
Reported: 8/29/18  
Analyzed: 8/29/18  
Received: 8/28/18  
Sampled: 8/28/18

Work Order: 1808786  
Project Number: 8163542-2  
Project Name: Southmoreland H.S.

Analyst: JM

AIHA-LAP, LLC. Lab #100373

TX License: LAB0145

TEST METHOD: PSI-WI-620-816

LAB NUMBER:	001A			002A			003A		
Client ID:	26609253			26609287			26609301		
Location:	Band Room- Electronics			Band Room- Storage			Band Room		
Comments:									
Detection Limit(spores/m <sup>3</sup> ):	13			13			13		
Hyphal Fragments	2	27		2	27		1	13	
Pollen	1	13							
Sample Description:	Air-O-Cell			Air-O-Cell			Air-O-Cell		
	raw ct.	spores/m <sup>3</sup>	%	raw ct.	spores/m <sup>3</sup>	%	raw ct.	spores/m <sup>3</sup>	%
Cladosporium sp.				2	27	1.16			
Ascospores	2	27	0.14				1	13	1.67
Basidiospores	1	13	0.07						
Smuts/Myxomycetes	2	27	0.14	3	40	1.73	1	13	1.67
Peronospora/Oldium sp.									
Pen./Asp. Group	1380	18000	99.14	165	2200	95.38	58	770	96.67
Alternaria sp.									
Drechslera/Bipolaris									
Spegazzinia sp.									
Tetraploa sp.									
Curvularia sp.	3	40	0.22						
Stachybotrys sp.									
Unknown/Brown*	2	27	0.14	2	27	1.16			
Torula sp.									
Ulocladium sp.									
Chaetomium sp.									
Pithomyces sp.	1	13	0.07	1	13	0.58			
Epicoccum sp.									
Polythrincium sp.									
Pestalotia sp.									
Cercospora sp.									
Rusts	1	13	0.07						
Nigrospora sp.									
Ganoderma sp.									
Zygothia sp.									
Background debris (1-5)**	3			3			3		
Sample Volume (liters)	75			75			75		
<b>TOTAL †</b>	<b>1392</b>	<b>18,000</b>	<b>100</b>	<b>173</b>	<b>2,300</b>	<b>100</b>	<b>60</b>	<b>800</b>	<b>100</b>

Total % may not equal 100 due to rounding.





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850 Poplar Street  
Pittsburgh, PA 15220

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Work Order: 1808786  
Project Number: 8163542-2  
Project Name: Southmoreland H.S.

Analyst: JM

AIHA-LAP, LLC. Lab #100373

TX License: LAB0145

TEST METHOD: PSI-WI-620-816

LAB NUMBER:	007A			008A			009A		
Client ID:	26444577			26444596			26444629		
Location:	Auditorium Stage			Hall Outside Rm 235			2nd Level Commons		
Comments:									
Detection Limit(spores/m <sup>3</sup> ):	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 <sup>3</sup>	%	raw ct.	spores/m <sup>3</sup>	%	raw ct.	spores/m <sup>3</sup>	%
Cladosporium sp.									
Ascospores				1	13	20.00	1	13	50.00
Basidiospores				1	13	20.00			
Smuts/Myxomycetes	1	13	5.00				1	13	50.00
Peronospora/Oidium sp.									
Pen./Asp. Group	19	250	95.00						
Alternaria sp.									
Drechslera/Bipolaris									
Spegazzinia sp.									
Tetraploa sp.									
Curvularia sp.				1	13	20.00			
Stachybotrys sp.									
Unknown/Brown*									
Torula sp.									
Ulocladium sp.									
Chaetomium sp.									
Pithomyces sp.				2	27	40.00			
Epicoccum sp.									
Polythrincium sp.									
Pestalotia sp.									
Cercospora sp.									
Rusts									
Nigrospora sp.									
Ganoderma sp.									
Zygothia sp.									
Background debris (1-5)**	2			4			2		
Sample Volume (liters)	75			75			75		
<b>TOTAL †</b>	<b>20</b>	<b>260</b>	<b>100</b>	<b>5</b>	<b>66</b>	<b>100</b>	<b>2</b>	<b>26</b>	<b>100</b>

Total % may not equal 100 due to rounding.



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Pittsburgh, PA 15220

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Work Order: 1808786  
Project Number: 8163542-2  
Project Name: Southmoreland H.S.

Analyst: JM

AIHA-LAP, LLC. Lab #100373

TX License: LAB0145

TEST METHOD: PSI-WI-620-816

LAB NUMBER:	010A			011A			012A		
Client ID:	26444684			26244537			26609293		
Location:	Cafeteria			Gymnasium			Hallway Outside Rm 130		
Comments:									
Detection Limit(spores/m <sup>3</sup> ):	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 <sup>3</sup>	%	raw ct.	spores/m <sup>3</sup>	%	raw ct.	spores/m <sup>3</sup>	%
Cladosporium sp.	1	13	50.00	3	40	15.00			
Ascospores				9	120	45.00			
Basidiospores	1	13	50.00	4	53	20.00			
Smuts/Myxomycetes				1	13	5.00	1	13	20.00
Peronospora/Oidium sp.									
Pen./Asp. Group									
Alternaria sp.									
Drechslera/Bipolaris									
Spegazzinia sp.									
Tetraploa sp.									
Curvularia sp.							1	13	20.00
Stachybotrys sp.									
Unknown/Brown*				2	27	10.00	2	27	40.00
Torula sp.									
Ulocadium sp.									
Chaetomium sp.									
Pithomyces sp.									
Epicoccum sp.									
Polythrincium sp.									
Pestalotia sp.									
Cercospora sp.									
Rusts									
Nigrospora sp.									
Ganoderma sp.				1	13	5.00	1	13	20.00
Zygothiala sp.									
Background debris (1-5)**	2			3			4		
Sample Volume (liters)	75			75			75		
<b>TOTAL †</b>	<b>2</b>	<b>26</b>	<b>100</b>	<b>20</b>	<b>270</b>	<b>100</b>	<b>5</b>	<b>66</b>	<b>100</b>

Total % may not equal 100 due to rounding.



## SPORE TRAP REPORT

PSI, Inc.  
850 Poplar Street  
Pittsburgh, PA 15220

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DATE  
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Analyzed: 8/29/18  
Received: 8/28/18  
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Work Order: 1808786  
Project Number: 8163542-2  
Project Name: Southmoreland H.S.

Analyst: JM

AIHA-LAP, LLC. Lab #100373

TX License: LAB0145

TEST METHOD: PSI-WI-620-816

<b>LAB NUMBER:</b>	013A		
<b>Client ID:</b>	26609224		
<b>Location:</b>	Outside		
<b>Comments:</b>			
<b>Detection Limit(spores/m<sup>3</sup>):</b>	13		
<b>Hyphal Fragments</b>	9	120	
<b>Pollen</b>	6	80	
<b>Sample Description:</b>	Air-O-Cell		
	raw ct.	spores/m <sup>3</sup>	%
Cladosporium sp.	48	640	10.64
Ascospores	256	3400	56.76
Basidiospores	82	1100	18.18
Smuts/Myxomycetes	29	390	6.43
Peronospora/Oidium sp.			
Pen./Asp. Group	6	80	1.33
Alternaria sp.	1	13	0.22
Drechslera/Bipolaris	1	13	0.22
Spegazzinia sp.			
Tetraploa sp.	1	13	0.22
Curvularia sp.	3	40	0.67
Stachybotrys sp.			
Unknown/Brown*	2	27	0.44
Torula sp.			
Ulocladium sp.			
Chaetomium sp.			
Pithomyces sp.			
Epicoccum sp.			
Polythrincium sp.	2	27	0.44
Pestalotia sp.			
Cercospora sp.			
Rusts			
Nigrospora sp.	1	13	0.22
Ganoderma sp.	17	230	3.77
Zygophiala sp.	2	27	0.44
<b>Background debris (1-5)**</b>	3		
<b>Sample Volume (liters)</b>	75		
<b>TOTAL †</b>	<b>451</b>	<b>6,000</b>	<b>100</b>

Total % may not equal 100 due to rounding.

**SPORE TRAP REPORT**

PSI, Inc.  
850 Poplar Street  
Pittsburgh, PA 15220

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Received: 8/28/18  
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Work Order: 1808786  
Project Number: 8163542-2  
Project Name: Southmoreland H.S.

Attn: Will Nicaastro

Analyst: JM

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**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/m<sup>3</sup> 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.

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

This report may not be reproduced except in full, without written approval of PSI, Inc.

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.



Cathy McNamee, Approved Signatory





**DIRECT MICROSCOPIC EXAMINATION REPORT**

PSI, Inc.  
850 Poplar Street  
Pittsburgh, PA 15220

DATE  
Reported: 8/29/18  
Analyzed: 8/29/18  
Received: 8/28/18  
Sampled: 8/28/18

Work Order: 1808789  
Project Number: 8163542-2  
Project Name: Southmoreland H.S.

Attn: Will Nicastro

Analyst: JM

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**Specific Sample Comments:**

001A: **Aspergillus conidiophores present.**  
002A: **Aspergillus conidiophores present.**  
003A: **Aspergillus conidiophores present.**

**General Report Comments:**

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

Quantification of fungal spores are graded 1+ through 4+ with:

- 1+ = Occasional spores seen
- 2+ = Few spores seen
- 3+ = Moderate spores seen
- 4+ = Numerous spores seen

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

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Results relate only to items tested.

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

*Cathy McNamee*

Cathy McNamee, Approved Signatory