

DIRECT MICROSCOPIC EXAMINATION REPORT

PSI, Inc.
850 Poplar Street
Pittsburgh, PA 15220

DATE
Reported: 9/5/18
Analyzed: 9/5/18
Received: 9/4/18
Sampled: 8/31/18

Work Order: 1809013
Project Number: 08163564
Project Name: Brownsville SD- Elementary
Analyst: JM

Specific Sample Comments:

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

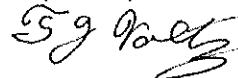
All samples were analyzed at 400x or 600x magnification unless noted.

Results relate only to items tested.

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.

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

1809012 (bulk)

CHAIN OF CUSTODY - MOLD

1809013 (swabs)

Project Information	
Project Name:	Brownsville SD - Elem.
Project No:	08163564
PO Number:	
Sample Date:	8-31-18



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

Send Results To	
Company:	PSI
Attn:	Eric Oldroyd
Address:	850 Poplar Street
Telephone:	412-922-4000
Email:	eric.oldroyd@psiusa.com

Send Invoice To	
Company:	PSI
Attn:	Dept 0816
Address:	
Telephone:	
Email:	

Requested Turn Around Time		
Same Day	1-2 Day	3-5 Day
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Requested Date: ASAP		

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

Sample Type:	
Air	<input type="checkbox"/>
Swab	<input type="checkbox"/>
Tape Lift	<input type="checkbox"/>
Bulk / Dust	<input type="checkbox"/>
Plate	<input type="checkbox"/>
Water	<input type="checkbox"/>
Other:	<input type="checkbox"/>

Sample Analysis:	
Direct Exam	<input checked="" type="checkbox"/>
Fungal Culture & Genus ID (non-speciation)	<input type="checkbox"/>
Fungal Culture & Genus ID Speciation (top 3 species)	<input type="checkbox"/>
Bacteria w/Genus ID (3 most predominant)	<input type="checkbox"/>
Sewage Screen	<input type="checkbox"/>
Legionella Culture	<input type="checkbox"/>
Other:	<input type="checkbox"/>

Sample ID	Description	Total Vol/Area
	See Attached For Samples Swabs and Bulk	

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

Relinquished by:	Date/Time	Received by:	Date/Time
Eric Oldroyd	9-3-18		

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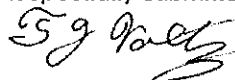
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CHAIN OF CUSTODY - MOLD

1809010

Project Information	
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Project No:	08163564
PO Number:	
Sample Date:	8-31-18



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 850 Poplar Street
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 412-922-4001 ext. 228/313

Send Results To	
Company:	PSI
Attn:	Eric Oldroyd
Address:	850 Poplar Street
Telephone:	412-922-4000
Email:	eric.oldroyd@psiusa.com

Send Invoice To	
Company:	PSI
Attn:	Dept 0816
Address:	
Telephone:	
Email:	

Requested Turn Around Time		
Same Day	1-2 Day	3-5 Day
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Requested Date: ASAP		

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

Sample Type:	
Air	<input type="checkbox"/>
Swab	<input type="checkbox"/>
Tape Lift	<input type="checkbox"/>
Bulk / Dust	<input type="checkbox"/>
Plate	<input type="checkbox"/>
Water	<input type="checkbox"/>
Other:	<input type="checkbox"/>

Sample Analysis:	
Direct Exam	<input checked="" type="checkbox"/>
Fungal Culture & Genus ID (non-speciation)	<input type="checkbox"/>
Fungal Culture & Genus ID Speciation (top 3 species)	<input type="checkbox"/>
Bacteria w/Genus ID (3 most predominant)	<input type="checkbox"/>
Sewage Screen	<input type="checkbox"/>
Legionella Culture	<input type="checkbox"/>
Other:	<input type="checkbox"/>

Sample ID	Description	Total Vol/Area
	See Attached For Samples	
	Air	

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

Relinquished by:	Date/Time	Received by:	Date/Time
Eric Oldroyd	9-3-18	<i>[Signature]</i> 9/4/18 10:13 AM	

Air Sampling Data Sheet

PCM Analysis Lead Analysis TEM Analysis Fungal Spores

Project Name: Branzburgville SA - Elem

Project No.: 08163564

Date Collected: 8-31-18 Date Relinquished to Lab: 9-3-18 Collected By: Eric Daryd
 Collection Media: 25mm MCE 0.8 micron cassette (ACM/RCF) 37mm MCE 0.8 micron cassette (ACM/RCF) 25 mm MCE 0.45 micron (TEM) Air-O-Cell Cassette
 Air Sampling Equipment: (low volume) Gillian BD XII Gillian HFS 513A SKC 224-43 (high volume) EMS 905CA18-097C
 Pump Calibration Method: Rotometer* Buck Calibrator* To Standard Date Calibrated: _____ Calibrated By: _____

Area & Environmental Air Sample Data

Date	Sample No.	Type*	Location & Activity	Total Time (Min)	Flow (l/min.)	Total Volume (L)
8-31	A-01	2	Kitchen	10	15	150 L
	A-02	1	Exterior - outside of Door #3	10	15	150 L
	A-03	1	Exterior - outside of Door #1	5	15	75 L
	A-04	2	Admin Hallway - OS room # 107	5	15	75 L
	A-05	2	Classroom # 301	5	15	75 L
	A-06	2	Classroom # 117	10	15	150 L
	A-07	2	Class room # 119	10	15	150 L
	A-08	2	Class room # 202 - Computer lab	10	15	150 L
	A					

*Baseline = 1; Area = 2; Prep: 3; In Containment = 4; Final Clearance = 5

Signature: 

Date: _____



SPORE TRAP REPORT

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850 Poplar Street
Pittsburgh, PA 15220

Attn: Will Nicastro

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Received: 9/4/18
Sampled: 8/31/18

Work Order: 1809010
Project Number: 08163564
Project Name: Brownsville SD- Elementary

Analyst: JM

AIHA-LAP, LLC. Lab #100373

TX License: LAB0145

TEST METHOD: PSI-WI-620-816

LAB NUMBER:	001A			002A			003A		
Client ID:	A-01			A-02			A-03		
Location:	Kitchen			Exterior - outside of Door #3			Exterior - outside of Door #1		
Comments:									
Detection Limit(spores/m ³):	7			7			13		
Hyphal Fragments	3	20		37	250		22	290	
Pollen	1	7		16	110		9	120	
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.	4	27	2.23	548	3700	37.98	386	5100	39.59
Ascospores	1	7	0.56	296	2000	20.51	182	2400	18.67
Basidiospores	3	20	1.68	135	900	9.36	94	1300	9.64
Smuts/Myxomycetes				162	1100	11.23	52	690	5.33
Peronospora/Oidium sp.									
Pen./Asp. Group	164	1100	91.62	8	53	0.55	5	67	0.51
Alternaria sp.				2	13	0.14	3	40	0.31
Drechslera/Bipolaris				33	220	2.29	10	130	1.03
Spegazzinia sp.									
Tetraploa sp.									
Curvularia sp.				18	120	1.25	4	53	0.41
Stachybotrys sp.									
Unknown/Brown*	2	13	1.12	3	20	0.21	2	27	0.21
Torula sp.									
Ulocladium sp.									
Chaetomium sp.									
Pithomyces sp.	5	33	2.79	166	1100	11.50	208	2800	21.33
Epicoccum sp.				27	180	1.87	15	200	1.54
Polythrincium sp.									
Pestalotia sp.				1	7	0.07			
Cercospora sp.				2	13	0.14			
Rusts				3	20	0.21	1	13	0.10
Nigrospora sp.				2	13	0.14	1	13	0.10
Ganoderma sp.				37	250	2.56	12	160	1.23
Background debris (1-5)**	4			4			4		
Sample Volume (liters)	150			150			75		
TOTAL †	179	1,200	100	1443	9,700	100	975	13,000	100

Total % may not equal 100 due to rounding.



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Analyst: JM

Attn: Will Nicastro

AIHA-LAP, LLC. Lab #100373

TX License: LAB0145

TEST METHOD: PSI-WI-620-816

LAB NUMBER:	004A			005A			006A		
Client ID:	A-04			A-05			A-06		
Location:	Admin Hallway - OS room #107			Classroom # 301			Classroom #117		
Comments:									
Detection Limit(spores/m ³):	13			13			7		
Hyphal Fragments	7	93		3	40		3	20	
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	6.25	4	27	5.19
Ascospores	4	53	8.70	1	13	3.13			
Basidiospores	3	40	6.52	1	13	3.13			
Smuts/Myxomycetes	17	230	36.96	9	120	28.13	9	60	11.69
Peronospora/Oidium sp.									
Pen./Asp. Group							46	310	59.74
Alternaria sp.									
Drechslera/Bipolaris									
Spegazzinia sp.									
Tetraploa sp.									
Curvularia sp.	7	93	15.22				5	33	6.49
Stachybotrys sp.									
Unknown/Brown*	2	27	4.35	2	27	6.25	2	13	2.60
Torula sp.									
Ulocladium sp.									
Chaetomium sp.									
Pithomyces sp.	13	170	28.26	16	210	50.00	11	73	14.29
Epicoccum sp.									
Polythrincium sp.									
Pestalotia sp.									
Cercospora sp.									
Rusts									
Nigrospora sp.									
Ganoderma sp.				1	13	3.13			
Background debris (1-5)**	4			4			4		
Sample Volume (liters)	75			75			150		
TOTAL †	46	610	100	32	420	100	77	520	100

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AIHA-LAP, LLC. Lab #100373

TX License: LAB0145

TEST METHOD: PSI-WI-620-816

LAB NUMBER:	007A			008A		
Client ID:	A-07			A-08		
Location:	Classroom #119			Classroom #202 - Computer lab		
Comments:						
Detection Limit(spores/m ³):	7			7		
Hyphal Fragments	6	40		2	13	
Pollen						
Sample Description:	Air-O-Cell			Air-O-Cell		
	raw ct.	spores/m ³	%	raw ct.	spores/m ³	%
Cladosporium sp.	2	13	9.09	3	20	6.52
Ascospores	3	20	13.64	2	13	4.35
Basidiospores	1	7	4.55			
Smuts/Myxomycetes	7	47	31.82	5	33	10.87
Peronospora/Oidium sp.						
Pen./Asp. Group				28	190	60.87
Alternaria sp.						
Drechslera/Bipolaris				1	7	2.17
Spegazzinia sp.						
Tetraploa sp.						
Curvularia sp.	2	13	9.09	1	7	2.17
Stachybotrys sp.						
Unknown/Brown*	2	13	9.09			
Torula sp.						
Ulocladium sp.						
Chaetomium sp.						
Pithomyces sp.	5	33	22.73	6	40	13.04
Epicoccum sp.						
Polythrincium sp.						
Pestalotia sp.						
Cercospora sp.						
Rusts						
Nigrospora sp.						
Ganoderma sp.						
Background debris (1-5)**	4			4		
Sample Volume (liters)	150			150		
TOTAL †	22	150	100	46	310	100

Total % may not equal 100 due to rounding.

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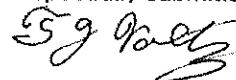
Samples will be disposed of within thirty (30) days unless notified in writing by the client.

Results based on volume measurement provided by the client.

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