

U.S. Micro-Solutions, Inc. * 302 Unity Plaza * Latrobe, PA 15650 Phone: (724) 853-4047 Fax: (724) 853-4049 AIHA-LAP, LLC EMLAP # 103009 www.usmslab.com



Customer Name:	AGX Inc.				Sample Date:				August 18, 2020							
Customer Address:	207 Pine Creek Road						Date Received:					August 19, 2020				
	Wexf	ord, P	A 150)90			Date of Report:				August 24, 2020					
												U		•		
Customer Phone:	(724)	934-4	249					Fax:				(724)	934-5	5677		
PO Number:	(1-1)		2.10					Atter	tion			• •		ncolir	ni -	
Project Name/Number:	Conto			Elemer	story	Saha	a l	Allei	nuon.					meom		
Froject Name/Number.	Cente			leme	ilai y	SCHO	01									
Customer sample numbers below a	are uni	quely	ident	tified b	oy pre	fixing	g Lab	orator	y #		8677	1-20				
	Di	rect N	licroso	copic E	xamir	nation	-	Swab								
		A	nalyti	cal Met	thod:	MIC ()2									
Customer Sample Number		(CAE-0	6												
Sample Description/ Location	F	Room	6 Cork	Board	1											
Particle ID	Rare	Few	Mod	Many	Num	Rare	Few	Mod	Many	Num	Rare	Few	Mod	Many	Num	
Alternaria conidia	Amt					Amt					Amt					
Ascospores																
Aspergillus fruiting structures																
Aspergillus/Penicillium-like conidia Basidiospores																
Bipolaris/Drechslera conidia																
Chaetomium ascospores																
Cladosporium conidia																
Curvularia conidia																
Epicoccum conidia																
Hyphal Fragments																
Insect fragments																
Penicillium fruiting structures																
Pithomyces/Ulocladium conidia																
Plant fragments																
Pollen (unidentified)																
Rusts																
Smuts/ Myxomycetes																
Stachybotrys conidia																
Stachybotrys fruiting structures																
<i>Torula</i> conidia																
Unidentified dematiaceous conidia																
Unidentified hyaline conidia																
Skin Cell Fragments			1													
Debris			1													
No fungal conidia/hyphal fragments noted			Χ													
Analyst Initials			ARP													
Date Analyzed			8/21/2													
Lot # / Exp Date:Swab		1909	527 09	/2020												

Results relate only to the samples tested. The Aspergillus/Penicillium-like category cannot be differentiated by non-viable sampling methods.

Mod = Moderate; Num = Numerous

When providing duplicates of this report, the document should be provided in total and not in section in accordance with AIHA-LAP, LLC. Any unauthorized or improper disclosure, copying, distribution, use, or falsification of these results is prohibited. USMS shall have no liability to the Customer or the Customer's customer for opinions stated, recommendations made, actions taken, or conduct implemented based on the test results reported.

Faron Danko

Inc.	Phor			Solutions, Inc 047 Fax: (7 <u>w</u>		4049	AIHA-				And In		158
Customer Name:	AGX	(Inc.				Samp	le Date	e.	Αυσυ	st 18, 2	2020		
Customer Address:		Pine C	rook E	Pood		-	Receiv			st 19, 2			
Customer Address:	-								•				
	vvex	ford, F	A 150	90		Date of	of Rep	ort:	Augu	st 24, 2	2020		
Customer Phone:	(724) 934-4	249			Fax:			(724)	934-56	77		
PO Number:	•	,				Attent	tion:			r Bran			
Project Name/Number:	Cen	ter Ave	nue F	Elementary S	chool								
	0011				011001								
Customer samp	ole ni	umber	s belov	w are unique	ly iden	tified I	by pret	fixing Labora	atory #		86771	1-20	
				Trap Analysis		-		AllergencoD					
				Analytical M			MIC 01						
Total Volume (L)				75				75				75	
Sample Number				CAE-01				CAE-02				CAE-03	
	1												
Location:				Room 11				Room 6			Multi I	Purpose Room	
Particle ID		Raw	AS	Spores/m ³	%	Raw	AS	Spores/m ³	%	Raw	AS	Spores/m ³	%
		ct.		-		ct.		-		ct.		-	
Alternaria					=0/								
Ascospores		3	13	39	7%					3	13	39	9%
Aspergillus/Penicillium-like		13	13	169	31%					3	13	39	9%
Basidiospores		9	13	117	21%	3	13	39	43%	18	13	234	51%
Bipolaris/Drechslera													
Cercospora										1	13	13	3%
Chaetomium													
Cladosporium		14	13	182	33%	4	13	52	57%	10	13	130	29%
Curvularia													
Epicoccum													
Helicomyces													
Nigrospora													
Oidium													
Pithomyces/Ulocladium		2	13	26	5%								
Polythrincium													
Rusts													
Smuts/ Myxomycetes		1	13	13	2%								
Stachybotrys													
Torula													
Trichoderma													
Unidentified dematiaceous conidia													
Unidentified hyaline conidia													
Total Mold (Spores/m³ of air)		42		546		7		91		35		455	
		72		340				51		- 55		400	
Pollen						0	13	< 13		0	13	< 13	
		2	13	26									
Hyphal Fragments													
Insect Fragments Plant Fragments													
Skin Cell Fragments				1	<u> </u>			1	·			1	
Debris				1				1		1			
Analyst Initials				ARP				ARP				ARP	
Date Analyzed	I			08/21/20				08/21/20				08/21/20	
Cassette Serial # / Exp Date:	I	3220372 10/2020			3220381 10/2020				3220362 10/2020				

Entire trace analyzed. Results relate only to the samples tested. Results are reported as calculated. For biological data, the first and/or second digit should be considered significant. Total percentage may not equal 100% due to rounding. Percentages reported as 0% are greater than 0 and less than 0.5%. The Aspergillus/Penicllium-like category cannot be differentiated by non-viable sampling methods.

AS=Analytical Sensitivity (spores/m³); Blank Lines = None Detected

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Technical Manager:	Haron Damko
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Sharon Danko, AS, MLT (ASCP)

Southors Inc.				Solutions, Inc 1047 Fax: (7) <u>w</u>		4049					And A		1158
Customer Name:	AGX	Inc.				Samp	le Dat	e:	Augu	st 18, :	2020		
Customer Address:	207	Pine C	reek F	Road		Date I	Receiv	/ed:	Augu	st 19, :	2020		
	Wex	ford, F	PA 150	90		Date of	of Rep	ort:	Augu	st 24, :	2020		
Customer Phone: PO Number: Project Name/Number:	•) 934-4 ter Ave		Elementary S	chool	Fax: Attent	tion:		• •	934-56 er Brar	677 ncolini		
Customer.com		mbor	o holo		huidan	titical		fiving Lobor	oton/#		8677 [.]	1_20	
Customer sam				Trap Analysis		tified	by pre	AllergencoD			0077	1-20	
	AI	rborne	Shore	Analytical M		-	MIC 0						
Total Volume (L)	1			75	etnoù.		MIC U	75		1			
Sample Number				CAE-04				CAE-05					
Location:				Library				Outside					
		Raw	AS	Spores/m ³	%	Raw	AS	Spores/m ³	%	Raw	AS	Spores/m ³	%
Particle ID		ct.	AS	Spores/III*	70	ct.	AS	Spores/III-	70	ct.	AS	Spores/III*	70
Alternaria						11	13	143	1%				
Ascospores						24	13	312	3%				
Aspergillus/Penicillium-like		37	13	481	80%	19	13	247	2%				
Basidiospores		5	13	65	11%	102	76	7,752	66%				
Bipolaris/Drechslera													
Cercospora													
Chaetomium													
Cladosporium		3	13	39	7%	237	13	3,081	26%				
Curvularia						1	13	13	0%				
Epicoccum		1	13	13	2%	7	13	91	1%				
Helicomyces													
Nigrospora						1	13	13	0%				
Oidium													
Pithomyces/Ulocladium													
Polythrincium						1	13	13	0%				
Rusts													
Smuts/ Myxomycetes						6	13	78	1%				
Stachybotrys													
Torula													
Trichoderma													
Unidentified dematiaceous conidia													
Unidentified hyaline conidia													
Total Mold (Spores/m³ of air)		46		598		409		11,743					
· · · /					1					<u>.</u> [· · · · · ·		1
Pollen		1	13	13		6	13	78					
Hyphal Fragments						2	13	26					
Insect Fragments Plant Fragments													
Fiant Flayments													
Skin Cell Fragments				1				0					
Debris				1				1					
Analyst Initials				ARP		ARP				I			
Date Analyzed			000	08/21/20			000	08/21/20		I			
Cassette Serial # / Exp Date: Entire trace analyzed. Results relate or		L		20347 10/2020				20349 10/2020					

Entire trace analyzed. Results relate only to the samples tested. Results are reported as calculated. For biological data, the first and/or second digit should be considered significant. Total percentage may not equal 100% due to rounding. Percentages reported as 0% are greater than 0 and less than 0.5%. The Aspergillus/Penicllium-like category cannot be differentiated by non-viable sampling methods.

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Technical Manager:	Faron Damko	
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Sharon Danko, AS, MLT (ASCP)

SPORE TRAP INTERPRETATION TIPS

Contains opinions and interpretations

Currently there are no numeric standards for indoor airborne or surface microbial contamination. Suggested guidelines are constantly being reviewed and updated as more information is collected.

Some common denominators should be considered when interpreting results:

1. Comparison of indoor/outdoor concentration ratios.

2. Complaint vs. non-complaint areas or affected vs. non-affected areas.

3. Consider air exchange rates and activity levels in a building structure, weather, and season of the year.

4. Rank order assessment and concentration (e.g. Spores/m³ of air) of the fungi.

5. Predominant fungal genera: Are there water indicator microorganisms present, such as but not limited to: Chaetomium, Stachybotrys, Rhodotorula, Trichoderma, and Scopulariopsis.

6. Generally fungal counts indoors should be lower than outdoor counts and the types of fungi found indoors should be similar to outdoors.

7. There is always a potential bias from infiltration of outdoor air, poor housekeeping, excessive indoor relative humidity, or potential contamination sources (e.g. water intrusion through a basement wall) that may negatively influence post remedial verification (PRV) or clearancelevels.

8. The investigator should look for various patterns among the indoor types of molds detected:

a. Increased levels of primary (1st) colonizers in damp or moisture intrusion areas of homes or commercial buildings: Aspergillus/Penicillium or Cladosporium are usually noted.

b. Chaetomium or Stachybotrys are tertiary (3rd) colonizers of indoor materials and are usually associated with chronic long-standing water/moisture issues in a building.

c. The presence of **hyphal fragments** or **fruiting structures** noted on spore trap samples usually indicates amplification (growth) of fungi on building substrates.

d. Ascospores and basidiospores noted on indoor spore trap samples most often represent the entrance of inadequately filtered outdoor air. During inclement weather, remember to note time, temperature, and season. Most indoor materials will not support the growth of these fungi.

9. When unidentified **hyaline** (clear) or **dematiaceous** (dark-pigmented) conidia are noted on a spore trap sample, it indicates that no particular fungus can be identified. These fungal conidia may represent such yeast-like fungi as *Aureobasidium*, *Sporidiobolus*, unidentifiable *Acremonium* species, Basidiomycetes (basidiospores), and Ascomycetes (ascospores).

10. Keep in mind when interpreting spore trap sample reports, that indoor levels may be higher than corresponding outdoor levels (winter time in the northern U.S.) with a predominance of *Aspergillus/Penicillium* or *Cladosporium* conidia with no significant amplification of any molds.

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DCR 20-079

Effective 06-04-20

	DEBRIS RATING for SPORE TRAP ANALYSIS (Air-O-Cell, Micro 5, Allergenco D, Cyclex	
DEBRIS RATING	CONDITIONS FOR REPORTING DEBRIS RATING	SIGNIFICANCE
0	A visible trace, including particulates and debris, is not observed.	Indicates the sample is a blank, the area is exceptionally clean, or improper sampling occurred.
1	Debris is present and <10% of the average viewing field is obscured.	Minimal amount of debris is observed.
2	Debris is present and 10% to <40% of the average viewing field is obscured.	Low amount of debris is observed, counts may be affecte
3*	Debris is present and 40% to 75% of the average viewing field is obscured.	Moderate amount of debris is observed, counts of conidia/hyphal fragments may be underestimated.
4*	Debris is present and >75% of the average viewing field is obscured.	High amount of debris is observed, counts are estimated
5* See Relative Abundance chart below	Excessive debris is present.	Periphery of trace analyzed. Relative amounts of conidia/hyphal fragments noted. Suggest recollection
6	Slide completely obscured by excessive debris.	Unable to analyze. Recollect sample.

SPORE TRAP GUIDELINES FOR INDOOR MICROBIAL CONTAMINATION

*A rating of 3 or greater indicates that the accuracy of the analysis is likely affected.

RELATIVE ABUNDANCE of OBSERVED CONIDIA & HYPHAL FRAGMENTS							
RATING	Relative Amounts of Observed Fungal Structures per high power field (600 X)						
Rare	0-1						
Few	2 to 5						
Moderate	6 to 10						
Many	11 to 100						
Numerous	>100						

SKIN CELL ANALYSIS							
SKIN CELL RATING	Relative Amounts of Observed Skin Cells per high power field (600 X)						
0	No skin cells present						
1	0-1						
2	2 to 5						
3	6 to 10						
4	11 to 15						
5	≥16						

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QLT 02 Form 6 v1

DCR 20-079

Effective 06-04-20

End of Report

U.S. Micro-Solutions, Inc. 302 Unity Plaza Latrobe, PA 15650 PH: 724-853-4047 FAX: 724-853-4049

ELITE





supplies@usmslab.com

LABORATORY TEST REQUEST - CHAIN OF CUSTODY

Customer Name	AGX Ir	IC.			Phone #: 724-934-4249 FAX #: 724-934-5677					
Address:	207 Pir	ne Cree	k Road		City: Wexford State: PA Zip: 15090					
Attention To:	Amber	Branco	olini		E-Mail: abrancolin	i@agxinc.com				
Sample Obtained	d By: A	mber B	rancolini		Results: FAX	🗸 E-Mail	PO#	Proposal	#	
Project Name/Nu	umber: Ct	enter	Aven	we EU	mentary	School				
Turn-Around-Tim (Spore Trap & D	ne:		Standard (48		ext Day (24 hr, M-F)	Same Day (6 hr, M	I-F) 3-He	our (M-F)	Saturday	
Comments:										
Sample #	Sam Date /		Sample Code	Analysis Code	Sam	ple Location & Des	cription		Sample Volume/Area	
CAE-01	8/18/20		ST	SPT	Room	1			75L	
CAE -02					Roomle					
CAE-03					multi pur	pose Ro	me			
CAE-04					Library					
CAE-05	¥		1	J	outside				1	
CAE-00			5	PME	Room 6 Cor	k board			Isqin	
Relinquished By	(Customer N	IUST sign)	and	Bra	nealin		100 000	te & Time - 18-20 /	4:40 PM	
Received By – La	ab Use Only		Mu			* Time	30 X	» 11/	20	
Rev. 12-14-17		A	y					<u></u>		

Rev. 12-14-17

Sa	mple Code		Analysis Code						
Α	Air Plate	DME	DME Direct Microscopic Exam		Heterotrophic Plate Count				
В	Bulk	SPT	Spore Trap	MYC	Mycobacteria Culture				
ST	Spore Trap	FUNG	Fungal Culture – Counts w/ ID of top 3 organisms	STA	Staphylococcus / MRSA Culture				
S	Swab	BACT	Bacterial Culture - Counts w/ ID of top 3 organisms	DUO	Duodenoscope Culture				
W	Water	SSQT	Sewage Screen (quant) – Counts w/ Identification E. coli, coliforms, enterococci (fecal streptococci)	нси	Heater/Cooler Water Culture includes mycobacteria, HPC, coliforms, & P. aeruginosa				
Т	Таре	SSQL	Sewage Screen (qualitative) – Identification of E. coli, coliforms, enterococci (fecal streptococci)	PSA	Pseudomonas aeruginosa Culture				
	Other	COL	Colilert – Presence/absence of E. coli, coliforms	IDS	Species Identification by MALDI-TOF				

*All samples received after 1:00 p.m. Monday-Friday will be considered received the NEXT business day.

Same Day and Next Day samples received on Saturday will be reported on Monday and Tuesday, respectively.