



EMSL Analytical, Inc.

3303 PARKWAY CENTER COURT Orlando, FL 32808

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<http://www.EMSL.com> / orlandolab@emsl.com

EMSL Order: 341811878
Customer ID: COAS80
Customer PO:
Project ID:

Attn: Marylee Morinelli Coastal Environmental Compliance, LLC PO Box 167 Hammonton, NJ 08037-0167	Phone: (609) 685-9984 Fax: (609) 625-2644 Collected: 08/31/2018 Received: 08/31/2018 Analyzed: 09/01/2018
Project: Pleasantville Middle School	

Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

Lab Sample Number: Client Sample ID: Volume (L): Sample Location	341811878-0001			341811878-0002			341811878-0003		
	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
1 75 Ambient				2 75 Room 106			3 75 Room 108		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	28	1100	6	2	80	12.5	1	40	25
Aspergillus/Penicillium	17	700	3.8	3	100	15.6	1	40	25
Basidiospores	384	15800	85.6	10	410	64.1	2	80	50
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	5	200	1.1	-	-	-	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	15	620	3.4	-	-	-	-	-	-
Myxomycetes++	1	40	0.2	-	-	-	-	-	-
Pithomyces++	-	-	-	1	40	6.3	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Myrothecium/Paramyrothec	-	-	-	1*	10*	1.6	-	-	-
Total Fungi	450	18460	100	17	640	100	4	160	100
Hyphal Fragment	1	40	-	-	-	-	-	-	-
Insect Fragment	1	40	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	41	-	-	41	-	-	41	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	1	-	-	2	-	-	2	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	2	-	-	1	-

Bipolaris++ = Bipolaris/Drechslera/Exserohilum
Myxomycetes++ = Myxomycetes/Periconia/Smut


 Yessica Martinez Seeman, Microbiology Technical Manager, Central Florida
 or other approved signatory

No discernable field blank was submitted with this group of samples.

High levels of background particulate can obscure spores and other particulates leading to underestimation. Background levels of 5 indicate an overloading of background particulates, prohibiting accurate detection and quantification. Present = Spores detected on overloaded samples. Results are not blank corrected unless otherwise noted. The detection limit is equal to one fungal spore, structure, pollen, fiber particle or insect fragment. "*" Denotes particles found at 300X. "-" Denotes not detected. Due to method stopping rules, raw counts in excess of 100 are extrapolated based on the percentage analyzed. EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Orlando, FL AIHA-LAP, LLC EMLAP 163563

Initial report from: 09/01/2018 13:46:38

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Project: Pleasantville Middle School	

Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

Lab Sample Number: Client Sample ID: Volume (L): Sample Location	341811878-0004			341811878-0005			341811878-0006		
	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
4 75 A206				5 75 C105 A			6 75 B101		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	3	100	3.2	2	80	4.7	1	40	8.3
Aspergillus/Penicillium	4	200	6.4	13	530	30.8	9	400	83.3
Basidiospores	69	2800	89.2	15	620	36	1	40	8.3
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	1	40	2.3	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	1	40	1.3	-	-	-	-	-	-
Myxomycetes++	-	-	-	1	40	2.3	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	10	410	23.8	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Myrothecium/Paramyrothec	-	-	-	-	-	-	-	-	-
Total Fungi	77	3140	100	42	1720	100	11	480	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	41	-	-	41	-	-	41	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	2	-	-	2	-	-	2	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	2	-	-	1	-

Bipolaris++ = Bipolaris/Drechslera/Exserohilum
Myxomycetes++ = Myxomycetes/Periconia/Smut


 Yessica Martinez Seeman, Microbiology Technical Manager, Central Florida
 or other approved signatory

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Lab Sample Number: Client Sample ID: Volume (L): Sample Location	341811878-0007			341811878-0008			341811878-0009		
	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total
7 A102	7	75	A102	8 E113	75	E113	9 C102	75	C102
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	1*	10*	0.7	-	-	-	-	-	-
Ascospores	4	200	13.6	-	-	-	-	-	-
Aspergillus/Penicillium	11	450	30.6	-	-	-	4	200	41.7
Basidiospores	15	620	42.2	2	80	66.7	4	200	41.7
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	2	80	5.4	3*	40*	33.3	2	80	16.7
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	1	40	2.7	-	-	-	-	-	-
Myxomycetes++	5*	70*	4.8	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Myrothecium/Paramyrothec	-	-	-	-	-	-	-	-	-
Total Fungi	39	1470	100	5	120	100	10	480	100
Hypchal Fragment	-	-	-	1*	10*	-	1*	10*	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	2	80	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	41	-	-	41	-	-	41	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	3	-	-	1	-	-	2	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	2	-	-	1	-	-	2	-

Bipolaris++ = Bipolaris/Drechslera/Exserohilum
Myxomycetes++ = Myxomycetes/Periconia/Smut

Yessica Martinez Seeman, Microbiology Technical Manager, Central Florida
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Lab Sample Number: Client Sample ID: Volume (L): Sample Location	341811878-0010			341811878-0011					
	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total
Spore Types									
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	1	40	7.3	-	-	-	-	-	-
Aspergillus/Penicillium	10	410	74.5	4	200	62.5	-	-	-
Basidiospores	3	100	18.2	1	40	12.5	-	-	-
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	2	80	25	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Myrothecium/Paramyrothec	-	-	-	-	-	-	-	-	-
Total Fungi	14	550	100	7	320	100	-	-	-
Hyphal Fragment	-	-	-	2	80	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	1*	10*	-	-	-	-
Analyt. Sensitivity 600x	-	41	-	-	41	-	-	-	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	-	-
Skin Fragments (1-4)	-	2	-	-	3	-	-	-	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	-	-
Background (1-5)	-	2	-	-	2	-	-	-	-

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