



EMSL Analytical, Inc.

2205 Corporate Plaza Parkway SE, Suite 200 Smyrna, GA 30080

Tel/Fax: (770) 956-9150 / (770) 956-9181

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

EMSL Order: 071702701

Customer ID: PMEN22

Customer PO:

Project ID:

Attn: Amanda Stone
PM Environmental, Inc.
2080 Valleydale Road
Suite 16
Birmingham, AL 35244

Phone: (256) 353-6222

Fax: (256) 353-8123

Collected: 05/09/2017

Received: 05/10/2017

Analyzed: 05/10/2017 - 05/11/2017

Project: 07-3552-0-0003

Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods EMSL 05-TP-003, ASTM D7391)

Lab Sample Number:	071702701-0001			071702701-0002			071702701-0003		
Client Sample ID:	24372960			24371088			24371104		
Volume (L):	150			150			150		
Sample Location	Media Center			Ms. M. Jones 2nd Grade			Preschool Center		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria	18	380	22.6	-	-	-	-	-	-
Ascospores	8	200	11.9	4	80	12.3	7	100	8.3
Aspergillus/Penicillium	-	-	-	3	60	9.2	15	320	26.5
Basidiospores	-	-	-	-	-	-	5	100	8.3
Bipolaris++	4	80	4.8	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	20	420	25	23	490	75.4	30	630	52.2
Curvularia	5	100	6	-	-	-	2*	10*	0.8
Epicoccum	19	400	23.8	-	-	-	1*	7*	0.6
Fusarium	1	20	1.2	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	1	20	3.1	2	40	3.3
Pithomyces	2	40	2.4	-	-	-	-	-	-
Rust	2	40	2.4	-	-	-	-	-	-
Scopulariopsis	-	-	-	-	-	-	-	-	-
Stachybotrys	-	-	-	-	-	-	-	-	-
Torula	-	-	-	-	-	-	-	-	-
Ulocladium	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Helicomyces	-	-	-	-	-	-	-	-	-
Nigrospora	-	-	-	-	-	-	-	-	-
Pestalotia/Pestalotiopsis	-	-	-	-	-	-	-	-	-
Spegazzinia	-	-	-	-	-	-	-	-	-
Total Fungi	79	1680	100	31	650	100	62	1207	100
Hypchal Fragment	9	200	-	2*	10*	-	5	100	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	3	60	-	-	-	-
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-
Skin Fragments (1-4)	-	2	-	-	2	-	-	2	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	4	-	-	2	-	-	4	-

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

Michael Murphy
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 Smyrna, GA AIHA-LAP, LLC --EMLAP Accredited #100662

Initial report from: 05/11/2017 10:31:06

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Project: 07-3552-0-0003

Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods EMSL 05-TP-003, ASTM D7391)

Lab Sample Number:	071702701-0004			071702701-0005			071702701-0006		
Client Sample ID:	23308247			23308260			23310115		
Volume (L):	150			150			150		
Sample Location	Ms. Moseley 4th Grade			Ms. Adams 4th Grade			Ms. Richardson 1st Grade		
Spore Types	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total
Alternaria	1	20	4.7	1	20	1.1	2	40	7.3
Ascospores	5	100	23.3	8	200	10.8	4	80	14.6
Aspergillus/Penicillium	3	60	14	2	40	2.2	4	80	14.6
Basidiospores	-	-	-	-	-	-	-	-	-
Bipolaris++	-	-	-	3	60	3.2	1*	7*	1.3
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	12	250	58.1	66	1400	75.8	8	200	36.6
Curvularia	-	-	-	5	100	5.4	1	20	3.7
Epicoccum	-	-	-	3*	20*	1.1	2	40	7.3
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	1*	7*	0.4	1	20	3.7
Pithomyces	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis	-	-	-	-	-	-	-	-	-
Stachybotrys	-	-	-	-	-	-	-	-	-
Torula	-	-	-	-	-	-	-	-	-
Ulocladium	-	-	-	-	-	-	3	60	11
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Helicomyces	-	-	-	-	-	-	-	-	-
Nigrospora	-	-	-	-	-	-	-	-	-
Pestalotia/Pestalotiopsis	-	-	-	-	-	-	-	-	-
Spegazzinia	-	-	-	-	-	-	-	-	-
Total Fungi	21	430	100	89	1847	100	26	547	100
Hypthal Fragment	1*	7*	-	10	210	-	6	100	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	1	20	-
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-
Skin Fragments (1-4)	-	2	-	-	2	-	-	2	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	2	-	-	4	-	-	4	-

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

Michael Murphy
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Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods EMSL 05-TP-003, ASTM D7391)

Lab Sample Number: Client Sample ID: Volume (L): Sample Location	071702701-0007 24373001 150 Hall Outside JCCDC			071702701-0008 23310117 150 Front Lobby			071702701-0009 23308239 150 Common Area/ Copy Area		
	Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³
Alternaria	1	20	1.5	9	200	9.1	7	100	0.9
Ascospores	6	100	7.5	7	100	4.6	7	100	0.9
Aspergillus/Penicillium	-	-	-	-	-	-	-	-	-
Basidiospores	-	-	-	-	-	-	3	60	0.5
Bipolaris++	4	80	6	7	100	4.6	7	100	0.9
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	46	970	72.9	54	1100	50.3	478	10100	91.1
Curvularia	7	100	7.5	12	250	11.4	8	200	1.8
Epicoccum	6*	40*	3	17	360	16.5	13	270	2.4
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	5*	30*	1.4	4	80	0.7
Pithomyces	-	-	-	1*	7*	0.3	2	40	0.4
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis	-	-	-	-	-	-	-	-	-
Stachybotrys	-	-	-	-	-	-	-	-	-
Torula	-	-	-	-	-	-	1	20	0.2
Ulocladium	1	20	1.5	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Helicomyces	-	-	-	-	-	-	-	-	-
Nigrospora	-	-	-	2	40	1.8	-	-	-
Pestalotia/Pestalotiopsis	-	-	-	-	-	-	-	-	-
Spegazzinia	-	-	-	-	-	-	1	20	0.2
Total Fungi	71	1330	100	114	2187	100	531	11090	100
Hypchal Fragment	10	210	-	6	100	-	5	100	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	1	20	-	1*	7*	-	1	20	-
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-
Skin Fragments (1-4)	-	4	-	-	3	-	-	2	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	4	-	-	4	-	-	3	-

Bipolaris++ = Bipolaris/Drechslera/Exserohilum
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Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods EMSL 05-TP-003, ASTM D7391)

Lab Sample Number:	071702701-0010		
Client Sample ID:	23308234		
Volume (L):	150		
Sample Location	Outside Base- N. Side		
Spore Types	Raw Count	Count/m³	% of Total
Alternaria	3	60	0.6
Ascospores	11	230	2.3
Aspergillus/Penicillium	67	1400	14
Basidiospores	8	200	2
Bipolaris++	1	20	0.2
Chaetomium	-	-	-
Cladosporium	341	7200	72.2
Curvularia	6	100	1
Epicoccum	24	510	5.1
Fusarium	-	-	-
Ganoderma	-	-	-
Myxomycetes++	15*	100*	1
Pithomyces	2*	10*	0.1
Rust	1*	7*	0.1
Scopulariopsis	-	-	-
Stachybotrys	-	-	-
Torula	1	20	0.2
Ulocladium	-	-	-
Unidentifiable Spores	-	-	-
Helicomyces	2	40	0.4
Nigrospora	2	40	0.4
Pestalotia/Pestalotiopsis	1	20	0.2
Spegazzinia	2*	10*	0.1
Total Fungi	487	9967	100
Hypthal Fragment	5	100	-
Insect Fragment	-	-	-
Pollen	2	40	-
Analyt. Sensitivity 600x	-	21	-
Analyt. Sensitivity 300x	-	7*	-
Skin Fragments (1-4)	-	1	-
Fibrous Particulate (1-4)	-	1	-
Background (1-5)	-	3	-

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