



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-0262

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

EMSL Order: 371917544

Customer ID: TTIE54

Customer PO: 028809

Project ID:

Attn: Jim Guilardi

TTI Environmental Inc.

1253 North Church Street

Moorestown, NJ 08057

Phone: (856) 840-8800

Fax: (856) 840-8815

Collected: 08/08/2019

Received: 08/08/2019

Analyzed: 08/09/2019

Project: 19-645 / Pinelands H.S.

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	371917544-0001 AOC-01 75 Outside			371917544-0002 AOC-02 75 A119			371917544-0003 AOC-03 75 A105		
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	-	-	-	-	-	-
Ascospores	165	7290	17.2	-	-	-	1	40	9.3
Aspergillus/Penicillium	19	840	2	17	750	81.5	3	100	23.3
Basidiospores	721	31900	75.4	-	-	-	4	200	46.5
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	1	40	4.3	-	-	-
Cladosporium	48	2100	5	2	90	9.8	2	90	20.9
Curvularia	-	-	-	1	40	4.3	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	2	90	0.2	-	-	-	-	-	-
Myxomycetes++	1	40	0.1	-	-	-	-	-	-
Pithomyces++	1*	10*	0	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Sporidesmium-like	1	40	0.1	-	-	-	-	-	-
Total Fungi	959	42320	100	21	920	100	10	430	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	44	-	-	44	-	-	44	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	1	-	-	2	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	1	-	-	1	-

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

Vincent Iuzzolino, M.S., Laboratory Manager
or other approved signatory

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

Samples received in good condition unless otherwise noted. 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. The report reflects the samples as received. When the information supplied by the customer can affect the validity of the result, it will be noted on the report.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC--EMLAP Lab 100194

Initial report from: 08/09/2019 14:48:29

For information on the fungi listed in this report, please visit the Resources section at www.emsl.com



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

Lab Sample Number:	371917544-0004				
Client Sample ID:	AOC-04				
Volume (L):	75				
Sample Location:	D161				
Spore Types	Raw Count	Count/m³	% of Total		
Alternaria (Ulocladium)	-	-	-		
Ascospores	1	40	1.3		
Aspergillus/Penicillium	52	2300	73.2		
Basidiospores	16	710	22.6		
Bipolaris++	-	-	-		
Chaetomium	-	-	-		
Cladosporium	2	90	2.9		
Curvularia	-	-	-		
Epicoccum	-	-	-		
Fusarium	-	-	-		
Ganoderma	-	-	-		
Myxomycetes++	-	-	-		
Pithomyces++	-	-	-		
Rust	-	-	-		
Scopulariopsis/Microascus	-	-	-		
Stachybotrys/Memnoniella	-	-	-		
Unidentifiable Spores	-	-	-		
Zygomycetes	-	-	-		
Sporidesmium-like	-	-	-		
Total Fungi	71	3140	100		
Hyphal Fragment	-	-	-		
Insect Fragment	-	-	-		
Pollen	-	-	-		
Analyt. Sensitivity 600x	-	44	-		
Analyt. Sensitivity 300x	-	13*	-		
Skin Fragments (1-4)	-	1	-		
Fibrous Particulate (1-4)	-	1	-		
Background (1-5)	-	2	-		

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

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