



# EMSL Analytical, Inc.

307 West 38th Street New York, NY 10018

Phone: (212) 290-0051 Fax: (212) 290-0058 Web: <http://www.emsl.com> Email: [manhattanlab@emsl.com](mailto:manhattanlab@emsl.com)**Attn:**

The Louis Berger Group, Inc.  
48 Wall St.  
16th Floor  
New York, NY 10005

EMSL Order: 031139370  
Customer ID: LOUI56  
Collected: 12/08/2011  
Received: 12/08/2011  
Analyzed: 12/08/2011

**Proj:** CKT 710M2/ MAHOPUC AUSTIN RD RM 21
**Test Report: Air-O - Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (EMSL Method 05-TP-003)**

Lab Sample Number:	031139370-0001			031139370-0002			031139370-0003		
Client Sample ID:	RM 21-1			RM 21-2			HALL-1		
Volume (L):	75			75			75		
Sample Location:	N SIDE OF ROOM			S SIDE OF ROOM			N SIDE OF HALLWAY		
Spore Types	Raw Count	Count/m <sup>3</sup>	% of Total	Raw Count	Count/m <sup>3</sup>	% of Total	Raw Count	Count/m <sup>3</sup>	% of Total
Alternaria	-	-	-	-	-	-	-	-	-
Ascospores	1	42	7.7	-	-	-	-	-	-
Aspergillus/Penicillium	2	84	15.4	3	127	43.1	1	42	100
Basidiospores	2	84	15.4	1	42	14.2	-	-	-
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	6	253	46.3	1	42	14.2	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	1	42	7.7	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	1	42	7.7	1	42	14.2	-	-	-
Pithomyces	-	-	-	-	-	-	-	-	-
Rust	-	-	-	1	42	14.2	-	-	-
Scopulariopsis	-	-	-	-	-	-	-	-	-
Stachybotrys	-	-	-	-	-	-	-	-	-
Torula	-	-	-	-	-	-	-	-	-
Ulocladium	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
<b>Total Fungi</b>	<b>13</b>	<b>547</b>	<b>100</b>	<b>7</b>	<b>295</b>	<b>100</b>	<b>1</b>	<b>42</b>	<b>100</b>
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	42	-	-	42	-	-	42	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	2	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	2	-	-	2	-	-	2	-

Bipolaris++ = Bipolaris/Dreschlera/Exserohilum

Myxomycetes++ = Myxomycetes/Periconia/Smut

Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC--EMLAP Lab 102581

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.

John McCauley, Laboratory Manager  
or Other Approved Signatory

For Information on the fungi listed in this report please visit the Resources section at [www.emsl.com](http://www.emsl.com)



# EMSL Analytical, Inc.

307 West 38th Street New York, NY 10018

Phone: (212) 290-0051 Fax: (212) 290-0058 Web: <http://www.emsl.com> Email: [manhattanlab@emsl.com](mailto:manhattanlab@emsl.com)**Attn:**

The Louis Berger Group, Inc.  
48 Wall St.  
16th Floor  
New York, NY 10005

EMSL Order: 031139370

Customer ID: LOUI56

Collected: 12/08/2011

Received: 12/08/2011

Analyzed: 12/08/2011

**Proj:** CKT 710M2/ MAHOPUC AUSTIN RD RM 21
**Test Report: Air-O - Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (EMSL Method 05-TP-003)**

Lab Sample Number:	031139370-0004			031139370-0005			031139370-0006		
Client Sample ID:	HALL-2			OUT-1			OUT-2		
Volume (L):	75			75			75		
Sample Location:	S SIDE OF HALLWAY			EXTERIOR			EXTERIOR		
Spore Types	Raw Count	Count/m <sup>3</sup>	% of Total	Raw Count	Count/m <sup>3</sup>	% of Total	Raw Count	Count/m <sup>3</sup>	% of Total
Alternaria	1*	13*	3.7	-	-	-	-	-	-
Ascospores	-	-	-	7	295	20.6	2	84	15.3
Aspergillus/Penicillium	3	127	36.3	1	42	2.9	1	42	7.7
Basidiospores	2	84	24	11	464	32.4	7	295	53.8
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	2	84	24	13	549	38.4	3	127	23.2
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	1	42	12	2	84	5.9	-	-	-
Pithomyces	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis	-	-	-	-	-	-	-	-	-
Stachybotrys	-	-	-	-	-	-	-	-	-
Torula	-	-	-	-	-	-	-	-	-
Ulocladium	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
<b>Total Fungi</b>	<b>9</b>	<b>350</b>	<b>100</b>	<b>34</b>	<b>1430</b>	<b>100</b>	<b>13</b>	<b>548</b>	<b>100</b>
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	42	-	-	42	-	-	42	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	2	-	-	1	-	-	1	-

Bipolaris++ = Bipolaris/Dreschlera/Exserohilum

Myxomycetes++ = Myxomycetes/Periconia/Smut

Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC--EMLAP Lab 102581

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.

John McCauley, Laboratory Manager  
or Other Approved Signatory

For Information on the fungi listed in this report please visit the Resources section at [www.emsl.com](http://www.emsl.com)



**EMSL Analytical, Inc.**

307 West 38th Street New York, NY 10018

Phone: (212) 290-0051 Fax: (212) 290-0058 Web: <http://www.emsl.com> Email: [manhattanlab@emsl.com](mailto:manhattanlab@emsl.com)

**Attn:**  
The Louis Berger Group, Inc.  
48 Wall St.  
16th Floor  
New York, NY 10005

EMSL Order: 031139370  
Customer ID: LOUI56  
Collected: 12/08/2011  
Received: 12/08/2011  
Analyzed: 12/08/2011

**Proj:** CKT 710M2/ MAHOPUC AUSTIN RD RM 21

**Test Report: Air-O - Cell(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (EMSL Method 05-TP-003)**

Lab Sample Number:	031139370-0007						
Client Sample ID:	FB1						
Volume (L):	0						
Sample Location:	FIELD BLANK						
<b>Spore Types</b>	<b>Raw Count</b>	<b>Count/m<sup>3</sup></b>	<b>% of Total</b>				
Alternaria	-	-	-				
Ascospores	-	-	-				
Aspergillus/Penicillium	-	-	-				
Basidiospores	-	-	-				
Bipolaris++	-	-	-				
Chaetomium	-	-	-				
Cladosporium	-	-	-				
Curvularia	-	-	-				
Epicoccum	-	-	-				
Fusarium	-	-	-				
Ganoderma	-	-	-				
Myxomycetes++	-	-	-				
Pithomyces	-	-	-				
Rust	-	-	-				
Scopulariopsis	-	-	-				
Stachybotrys	-	-	-				
Torula	-	-	-				
Ulocladium	-	-	-				
Unidentifiable Spores	-	-	-				
Zygomycetes	-	-	-				
<b>Total Fungi</b>	-	<b>No Trace</b>	-				
Hyphal Fragment	-	-	-				
Insect Fragment	-	-	-				
Pollen	-	-	-				
Analyt. Sensitivity 600x	-	0	-				
Analyt. Sensitivity 300x	-	0*	-				
Skin Fragments (1-4)	-	-	-				
Fibrous Particulate (1-4)	-	-	-				
Background (1-5)	-	-	-				

Bipolaris++ = Bipolaris/Dreschlera/Exserohilum

Myxomycetes++ = Myxomycetes/Periconia/Smut

Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC--EMLAP Lab 102581

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.

John McCauley, Laboratory Manager  
or Other Approved Signatory

For Information on the fungi listed in this report please visit the Resources section at [www.emsl.com](http://www.emsl.com)