February 22, 2011

Mr. Leonard Costable
Director of Facilities
Mahopac Central School District
179 East Lake Boulevard
Mahopac, NY 10541

E Mail Address: costablel@mahopac.k12.ny.us

Telephone: (845) 628 3415

Re: Air Quality Screening Inspection Inspection of Classroom 217 Austin Road Elementary School 390 Austin Rd, Mahopac, NY

Dear Mr. Costable:

At the request of the Mahopac Central School District (Mahopac), Louis Berger Group, Inc. (Berger) performed an air quality screening inspection at the above referenced address (hereafter referred to as "the School"). The purpose of the inspection was to assess conditions which could potentially impact classroom and/or School Indoor Air Quality (IAQ) through a combination of real time air testing and visual inspection methods within the above referenced class room. This site inspection was performed on January 20, 2011 by Berger Industrial Hygienist; Ms. Chawinie Miller.

#### **History**

Room 217 is located on the second floor and utilized as a regular classroom. Based on discussions with Austin Road Head Custodian Mr. Tom Wellington, Berger is not aware of any standard air quality issues related to odor, water infiltration or visible mold. No faculty or student complaints were reported.

#### Methodology

Berger performed real time testing utilizing a TSI, Inc. (TSI) Q-TRAC<sup>®</sup> IAQ Meter, measuring carbon dioxide, carbon monoxide, relative humidity and temperature. This meter was calibrated/field challenged immediately prior to the site visit as per manufacturer recommendations.

Analytical sampling for mold spores was performed utilizing Air O Cell cassettes fitted to Gast<sup>®</sup> high flow pumps. Samples were collected at a flow rate of approximately fifteen (15) liters per minute such that a total volume of one hundred fifty (150) liters was achieved. Two (2) samples were collected within Room 217 with one (1) sample being on each the east and west sides of the room. In additional two (2) references samples were collected outdoors at the time of the site visit. These results are presented as an attachment at the end of this report for further review.

As a proactive measure, Berger also performed moisture screening of accessible wall and floor surfaces through the use of a Protimeter Moisture Measurement System (MMS). The Protimeter MMS provides percent moisture content values in wood or wood moisture equivalent (WME) and other non-conductive materials (e.g., masonry). The MMS displays the measurements on a relative scale of 0 - 1,000. Additionally, the instrument indicates whether the material sampled is

"dry", "at risk", or "wet". A "dry" result indicates that the material has a WME of  $\geq$  5% but < 17%. An "at risk" measurement indicates that the material has a WME of  $\geq$  17% but < 20%. A "wet" result indicates that the material has a WME of  $\geq$  20%.

Berger lastly performed a visual screening of the room for additional problems that may play a supporting role in creating conditions conducive to poor building IAQ, such as water damage, microbial growth or neighboring facility processes or activities.

#### **Physical Survey Findings**

#### **Room 217**

In general, the classroom was noted to be clean and well kept. A large amount of school materials was noted within the room. In addition, Berger also did not observe any plants in this classroom that could potentially be responsible for common or potential IAQ odor or sensitivity complaints. A guinea pig was also observed to be present within the room.

This room is equipped with one (1) packaged univent/HVAC unit (installed in approximately 1967) and radiator which was inspected by Berger through the assistance of School Maintenance Staff. Maintenance staff removed HVAC/univent access covers (intake and mixing chamber) for inspection, which revealed that filters were noted to be in fair condition and changed at least three (3) times per year. Radiators interiors were noted to be very dusty. The exterior of the radiators is equipped with a built in book shelf. Wood paneling separates the radiators and the bookshelves; this area was noted to be water damaged (approximately 100 square feet)

A thorough inspection of the ceiling plenum was also performed in this room. The room is equipped with a dropped ceiling and finished with acoustical ceiling tiles, above which is a two (2) foot ceiling plenum space. No odors or rodent droppings, water staining or mold was observed in this area

During inspection, Berger did note chemicals within the room; wet ones wipes, alcohol, expo white board cleaner and cage clean deodorizer. The storage of food was not observed within the room.

Representative moisture meter readings were taken within this room along the floor and walls at the base, 3 feet high and 6 feet high. Moisture mapping of this area did not reveal any elevated moisture readings.

#### **Real Time Screening Findings**

Please see below for a summary of data:

### **QTRAC IAQ Meter:**

A QTRAC ® IAQ Meter was utilized to measure carbon monoxide, carbon dioxide, relative humidity and temperature. Data was collected for a twenty four (24) hour period and is summarized in the following table and discussed in the following sections.

Location	Temperature	Relative Humidity	Carbon Monoxide	Carbon Dioxide
	60.1 to 73.9°F	4.9 to 16.2 %	ND to 0.2 ppm	309 to 1133 ppm
Room 217	68.0°F (average)	9.0% (average)	0.0 ppm (average)	370 ppm (average)

**ND** = **Not Detected** 

Please see guidelines on the following page summarizing OSHA, ACGIH and the American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE) Standard 55-1992, Thermal Environmental Conditions for Human Occupancy and ASHRAE Standard 62-1999/2000, Ventilation for Acceptable Indoor Air Quality:

Comfort Parameter	Acceptable Value
Carbon Dioxide	ASHRAE: $CO_{2 \text{ (Outside Air)}} + 700 = 1,100 \text{ ppm}$ NIOSH Guideline: 1,000 ppm
Temperature	ASHRAE: 73.0°F – 79.0°F (Summer Season)  ASHRAE: 68°F – 75.0°F (Winter Season)  OSHA Technical Guideline: 68°F – 76.0°F (Year Round)
Relative Humidity	ASHRAE: 30% – 60% OSHA Technical Guideline: 20% – 60%
Carbon Monoxide	ACGIH TLV: 25 ppm; OSHA TWA: 50 ppm

A review of the data for carbon monoxide, temperature and carbon dioxide, indicate that averaged levels are within the applicable standards, although transient exceedance of carbon dioxide guidelines will occasionally occur in a classroom setting. A review of the relative humidity and temperature data indicated that levels were below OSHA and ASHRAE minimum *recommended* relative humidity and temperature values. Although this is the case, these conditions are reflective of outside conditions at this time of year and therefore should not be regarded as a cause for concern. In addition, temperature readings below the OSHA and ASHRAE recommended minimum values occurred during period when the room was unoccupied.

### **Analytical Results/Mold Spores**

At the request of the Mahopac School District Berger collected total mold spore samples did not reveal the presence of particular genera in concentrations that could indicate a concern as compared to outside air or other School classrooms. A copy of laboratory results and Chain of Custody are present at the end of this report in Attachment A.

#### Recommendations

Although the physical inspection and real time air sampling did not reveal any conditions of concern, and in order to promote good IAQ, Berger would like to offer the following recommendations:

- ➤ Based in the visual inspection of the radiator area, Berger recommends the removal of the wooden paneling due to presence of water damage and suspect mold growth. In addition, Berger recommends a cleaning of the radiator for the removal of dust and debris noted on the interior. If identified during inspection efforts, potential mold impacted materials should be addressed as per the United States Environmental Protection Agency (USEPA) document, "Mold Abatement in Schools and Commercial Buildings". Investigative activities should be performed when School is not in session.
- ➤ Consider removal and storage of the excessive amount of materials identified in the classroom. Numerous classroom surfaces allow for the build-up of dust which has the potential of becoming entrained in classroom air once disturbed.
- ➤ Habitation of animals within the classroom is not recommended due to the potential for generation of allergens and odors. Consider removing the animal as conditions or complaints warrant.
- Remove chemicals from the classroom if not approved for use. For approved chemicals, and as required by federal regulations; Berger recommends that an accessible copy of each Material Safety Data Sheet (MSDS) for each chemical be kept on site.
- ➤ Berger recommends the proper disposal of all chemicals not in compliance with Mahopac Central School District Policy.

If you have any questions concerning this information, please feel free to contact me at (212)-612-7991.

Sincerely,

LOUIS BERGER & ASSOCIATES, P.C.

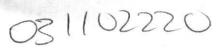
Jum Willer

Chawinie Miller Industrial Hygienist

C: J. Cupriks, R. Almonacy

Attachment

**Attachment A** 



## Environmental Microbiology Chain of Custody



EMSL Order Number(Lab Use Only):

Westmont, NJ 3 Cooper Street Westmont, NJ 08108 PHONE: 1-800-220-3675 FAX: (856) 858-4960

mpany: the louis be		Third Part	y Billing requir	nt note instructions in res written authori	zation from third party
eet: 199 water st 23					
y/State/Zip: ny , N`	Y 10038	Fax:			
port To (Name): ch			dress: icupri	ks@louisberger	.com
lephone: 212 612 7	991	Linaii Ad			
oject Name/Numbe	er: KT710 GZ		State Samp	les Taken: NY	
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3 Hour 6	Hour 24 Hour 48 Hour ordance with EMSL's Terms and Conditions local	ted in the Analy	tical Price Guide.	. TATs are subject t	o methodology requirements
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M001 Air-O-Cell M049 BioSIS	• M173 Allegro M2 • M004 Alle • M003 Burkard • M043 Cyc	rgenco lex	<ul> <li>M032 Allerg</li> <li>M002 Cycle</li> <li>M130 Via-C</li> </ul>	ex-d	
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Prominent M013 Sewage Cont Preservation Method	Mo26 Re     amination in Buildings     Mo27 My	creational Wa cotoxin Analy: Signat	ter Screen sis	Other See  r:	Analytical Price Guide
Prominent  Mo13 Sewage Cont  Preservation Method  Name of Sampler:	M026 Re amination in Buildings     M027 My  (Water):	creational Wa cotoxin Analys Signat Sample	ter Screen sis	Other See	Date/Time Collected
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Prominent M013 Sewage Cont Preservation Method Name of Sampler: Sample #	• M026 Re amination in Buildings • M027 My  (Water):  Sample Location  H.S rm 247	creational Wa cotoxin Analys Signat Sample	ure of Sample Test Code	Other See  r:  Volume/Area	Date/Time Collected
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# 031102220.



## Environmental Microbiology Chain of Custody

EMSL Order Number(Lab Use Only):

Westmont, NJ 3 Cooper Street Westmont, NJ 08108 PHONE: 1-800-220-3675 FAX: (856) 858-4960

Sample #	Sample Location	Sample Type	Test Code	Volume/Area	Date/Time Collected
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ius	11				V 4:41
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217-2	. 1			A 100 March 1 100	4:30
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Comments/Special Instructions: please call 646 660 1263 with any questions; please also e-mail cmiller@louisberger.com as well with results

2011 JAN 28 15:8

Controlled Document - Environmental Microbiology COC - EM1.0 - 11/23/2009

Page \_\_\_ of \_\_\_ Pages

Ears/ snasone7



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

Attn:

The Louis Berger Group, Inc.

Customer ID: LOUI56

199 Water Street

Collected: 1/11/2011

23rd Floor

EMSL Order: 031102220

Customer ID: LOUI56

1/28/2011

 23rd Floor
 Received:
 1/28/2011

 New York, NY 10038
 Analyzed:
 1/29/2011

Proj: KT710G2

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

Lab Sample Number: Client Sample ID: Volume (L): Sample Location:		031102220-0001 247-1 150 H.S RM 247			31102220-0002 247-2 150 H.S RM 247			031102220-0003 OWA-1 150 OUTSIE H.S	
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	-	-	-	-	-	-
Aspergillus/Penicillium	-	-	-	-	-	-	1	21	33.3
Basidiospores	-	-	-	2	42	50	-	-	-
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	-	-	-	2	42	66.7
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	2	42	50	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis	-	-	-	-	-	-	-	-	-
Stachybotrys	-	-	-	-	-	-	-	-	-
Torula	-	-	-	-	-	-	-	-	-
Ulocladium	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	-	-	-	4	84	100	3	63	100
Hyphal Fragment	1	21	-	-	-	-	1*	7*	-
Insect Fragment	-	-	-	-	-	-	1*	7*	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-
Skin Fragments (1-4)	-	2	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	2	-	-	2	-

Bipolaris++ = Bipolaris/Dreschlera/Exserohilum

Myxomycetes++ = Myxomycetes/Periconia/Smut

Samples analyzed by EMSL Analytical, Inc. 307 West 38th Street, 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 othewise 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. 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

LOUI56

1/11/2011



## EMSL Analytical, Inc.

307 West 38th Street New York, NY 10018

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

Attn:

EMSL Order: The Louis Berger Group, Inc. Customer ID: 199 Water Street Collected:

23rd Floor Received: 1/28/2011 New York, NY 10038 1/29/2011 Analyzed:

Proj: KT710G2

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

Lab Sample Number: Client Sample ID: Volume (L): Sample Location:	OWA-2 150			031102220-0005 208-1 150 AUSTIN RD RM 208			031102220-0006 208-2 150 AUSTIN RD RM 208			
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	
Alternaria	-	-	-	-	-	-	-	-	-	
Ascospores	-	-	-	-	-	-	-	-	-	
Aspergillus/Penicillium	2	42	66.7	2	42	66.7	1	21	50	
Basidiospores	-	-	-	-	-	-	1	21	50	
Bipolaris++	-	-	-	-	-	-	-	-	-	
Chaetomium	-	-	-	-	-	-	-	-	-	
Cladosporium	1	21	33.3	-	-	-	-	-	-	
Curvularia	-	-	-	-	-	-	-	-	-	
Epicoccum	-	-	-	-	-	-	-	-	-	
Fusarium	-	-	-	-	-	-	-	-	-	
Ganoderma	-	-	-	-	-	-	-	-	-	
Myxomycetes++	-	-	-	-	-	-	-	-	-	
Pithomyces	-	-	-	1	21	33.3	-	-	-	
Rust	-	-	-	-	-	-	-	-	-	
Scopulariopsis	-	-	-	-	-	-	-	-	-	
Stachybotrys	-	-	-	-	-	-	-	-	-	
Torula	-	-	-	-	-	-	-	-	-	
Ulocladium	-	-	-	-	-	-	-	-	-	
Unidentifiable Spores	-	-	-	-	-	-	-	-	-	
Zygomycetes	-	-	-	-	-	-	-	-	-	
Total Fungi	3	63	100	3	63	100	2	42	100	
Hyphal Fragment	-	-	-	-	-	-	-	-	-	
Insect Fragment	-	-	-	-	-	-	-	-	-	
Pollen	-	-	-	-	-	-	-	-	-	
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-	
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-	
Skin Fragments (1-4)	-	1	-	-	2	-	-	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. 307 West 38th Street, 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 othewise 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. 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



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23rd Floor

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Lab Sample Number: Client Sample ID: Volume (L): Sample Location:	OWA-3 150				031102220-0008 OWA-4 150 OUTSIDE AUSTIN RD			031102220-0009 GYM 150 GUSTINED RD GYM			
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total		
Alternaria	-	-	-	- '	-	-	-	-	· -		
Ascospores	-	-	-	-	-	-	-	-	-		
Aspergillus/Penicillium	-	-	-	-	-	-	-	-	-		
Basidiospores	-	-	-	-	-	-	-	-	-		
Bipolaris++	-	-	-	-	-	-	-	-	-		
Chaetomium	-	-	-	-	-	-	-	-	-		
Cladosporium	-	-	-	-	-	-	-	-	-		
Curvularia	-	-	-	-	-	-	-	-	-		
Epicoccum	-	-	-	-	-	-	-	-	-		
Fusarium	-	-	-	-	-	-	-	-	-		
Ganoderma	-	-	-	-	-	-	-	-	-		
Myxomycetes++	-	-	-	-	-	-	-	-	-		
Pithomyces	-	-	-	-	-	-	-	-	-		
Rust	-	-	-	-	-	-	-	-	-		
Scopulariopsis	-	-	-	-	-	-	-	-	-		
Stachybotrys	-	-	-	-	-	-	-	-	-		
Torula	-	-	-	-	-	-	-	-	-		
Ulocladium	-	-	-	-	-	-	-	-	-		
Unidentifiable Spores	-	-	-	-	-	-	-	-	-		
Zygomycetes	-	-	-	-	-	-	-	-	-		
Total Fungi	-	None Detected	-	-	-	-	-	None Detected	-		
Hyphal Fragment	-	-	-	1	21	-	-	-	-		
Insect Fragment	-	-	-	-	-	-	-	-	-		
Pollen	-	-	-	-	-	-	-	-	-		
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-		
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-		
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-		
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-		
Background (1-5)	-	1	-	-	1	-	-	1	-		

Bipolaris++ = Bipolaris/Dreschlera/Exserohilum

Myxomycetes++ = Myxomycetes/Periconia/Smut

Samples analyzed by EMSL Analytical, Inc. 307 West 38th Street, 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 othewise 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. EMSL maintains liability limited to cost of anaysis. 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



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

Attn:

The Louis Berger Group, Inc. 199 Water Street 23rd Floor

New York, NY 10038

EMSL Order: 031102220
Customer ID: LOUI56
Collected: 1/11/2011
Received: 1/28/2011

Analyzed: 1/29/2011

Proj: KT710G2

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

Lab Sample Number: Client Sample ID: Volume (L): Sample Location:	COUCH OFFICE 150				031102220-0011 OWA-5 150 OUTSIDE AUSTIN RD			031102220-0012 OWA-6 150 OUTSIDE AUSTIN RD			
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m <sup>3</sup>	% of Total	Raw Count	Count/m³	% of Total		
Alternaria	-	-	-	-	-	-	-	-	-		
Ascospores	-	-	-	-	-	-	-	-	-		
Aspergillus/Penicillium	-	-	-	-	-	-	-	-	-		
Basidiospores	-	-	-	-	-	-	-	-	-		
Bipolaris++	-	-	-	-	-	-	-	-	-		
Chaetomium	-	-	-	-	-	-	-	-	-		
Cladosporium	-	-	-	-	-	-	-	-	-		
Curvularia	-	-	-	-	-	-	-	-	-		
Epicoccum	-	-	-	-	-	-	-	-	-		
Fusarium	-	-	-	-	-	-	-	-	-		
Ganoderma	-	-	-	-	-	-	-	-	-		
Myxomycetes++	-	-	-	-	-	-	-	-	-		
Pithomyces	-	-	-	-	-	-	-	-	-		
Rust	-	-	-	-	-	-	-	-	-		
Scopulariopsis	-	-	-	-	-	-	-	-	-		
Stachybotrys	-	-	-	-	-	-	-	-	-		
Torula	-	-	-	-	-	-	-	-	-		
Ulocladium	-	-	-	-	-	-	-	-	-		
Unidentifiable Spores	-	-	-	-	-	-	-	-	-		
Zygomycetes	-	-	-	-	-	-	-	-	-		
Total Fungi	-	None Detected	-	-	None Detected	-	-	None Detected	-		
Hyphal Fragment	-	-	-	-	-	-	-	-	-		
Insect Fragment	-	-	-	-	-	-	-	-	-		
Pollen	-	-	-	-	-	-	-	-	-		
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-		
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-		
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-		
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-		
Background (1-5)	-	1	-	-	1	-	-	1	-		

Bipolaris++ = Bipolaris/Dreschlera/Exserohilum

Myxomycetes++ = Myxomycetes/Periconia/Smut

Samples analyzed by EMSL Analytical, Inc. 307 West 38th Street, 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 othewise 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. EMSL maintains liability limited to cost of anaysis. 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.

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

Attn:

23rd Floor

The Louis Berger Group, Inc. 199 Water Street

New York, NY 10038

EMSL Order: 031102220 Customer ID: LOUI56 Collected: 1/11/2011 Received: 1/28/2011

1/29/2011 Analyzed:

Proj: KT710G2

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

Lab Sample Number: Client Sample ID: Volume (L): Sample Location:	(	031102220-0013 217-1 150 RM 217			031102220-0014 217-2 150 RM 217			031102220-0015 OWA-7 150 TSIDE AUSTIN R	D
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria	-	-	-	- '	-	-	-	-	-
Ascospores	-	-	-	-	-	-	-	-	-
Aspergillus/Penicillium	-	-	-	-	-	-	1	21	50
Basidiospores	-	-	-	-	-	-	-	-	-
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	1	21	33.3	-	-	-
Cladosporium	1	21	100	2	42	66.7	1	21	50
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis	-	-	-	-	-	-	-	-	-
Stachybotrys	-	-	-	-	-	-	-	-	-
Torula	-	-	-	-	-	-	-	-	-
Ulocladium	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	1	21	100	3	63	100	2	42	100
Hyphal Fragment	-	-	-	1	21	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	2	-	-	2	-	-	1	-

Bipolaris++ = Bipolaris/Dreschlera/Exserohilum

Myxomycetes++ = Myxomycetes/Periconia/Smut

Samples analyzed by EMSL Analytical, Inc. 307 West 38th Street, New York NY AIHA-LAP, LLC--EMLAP Lab 102581

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John McCauley, Laboratory Manager or Other Approved Signatory

LOUI56

1/11/2011

1/28/2011

1/29/2011



## 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

Attn:

The Louis Berger Group, Inc. 199 Water Street 23rd Floor

New York, NY 10038

Proj: KT710G2

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

EMSL Order:

Customer ID:

Collected:

Received:

Analyzed:

Lab Sample Number: Client Sample ID: Volume (L): Sample Location:		031102220-0016 OWA-8 150 JTSIDE AUSTIN RD			031102220-0017 22-1 150 RM 22	.,		031102220-0018 22-2 150 RM 22	
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	-	-	-	-	-	-
Aspergillus/Penicillium	-	-	-	-	-	-	1	21	100
Basidiospores	-	-	-	-	-	-	-	-	-
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	-	-	-	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis	-	-	-	-	-	-	-	-	-
Stachybotrys	-	-	-	-	-	-	-	-	-
Torula	-	-	-	-	-	-	-	-	-
Ulocladium	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	-	None Detected	-	-	-	-	1	21	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	1	21	-	-	-	-
Analyt. Sensitivity 600x	-	21	-	-	21	-	=	21	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	2	-	=	2	-

Bipolaris++ = Bipolaris/Dreschlera/Exserohilum

Myxomycetes++ = Myxomycetes/Periconia/Smut

Samples analyzed by EMSL Analytical, Inc. 307 West 38th Street, New York NY AIHA-LAP, LLC--EMLAP Lab 102581

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John McCauley, Laboratory Manager or Other Approved Signatory

1/11/2011

1/28/2011

1/29/2011

LOUI56



## EMSL Analytical, Inc.

307 West 38th Street New York, NY 10018

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

Attn:

EMSL Order: The Louis Berger Group, Inc. Customer ID: 199 Water Street Collected: 23rd Floor

Received: New York, NY 10038 Analyzed:

Proj: KT710G2

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

Lab Sample Number: Client Sample ID: Volume (L): Sample Location:	OWA-9 150				031102220-0020 OWA-10 150 OUTSIDE AUSTIN RD			031102220-0021 MAIN-1 150 MAIN OFFICE AUSTIN RD			
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total		
Alternaria	- '	-	-	-	-	-	-	-	-		
Ascospores	-	-	-	-	-	-	-	-	-		
Aspergillus/Penicillium	-	-	-	1	21	100	3	63	75		
Basidiospores	-	-	-	-	-	-	1	21	25		
Bipolaris++	-	-	-	-	-	-	-	-	-		
Chaetomium	-	-	-	-	-	-	-	-	-		
Cladosporium	1	21	100	-	-	-	-	-	-		
Curvularia	-	-	-	-	-	-	-	-	-		
Epicoccum	-	-	-	-	-	-	-	-	-		
Fusarium	-	-	-	-	-	-	-	-	-		
Ganoderma	-	-	-	-	-	-	-	-	-		
Myxomycetes++	-	-	-	-	-	-	-	-	-		
Pithomyces	-	-	-	-	-	-	-	-	-		
Rust	-	-	-	-	-	-	-	-	-		
Scopulariopsis	-	-	-	-	-	-	-	-	-		
Stachybotrys	-	-	-	-	-	-	-	-	-		
Torula	-	-	-	-	-	-	-	-	-		
Ulocladium	-	-	-	-	-	-	-	-	-		
Unidentifiable Spores	-	-	-	-	-	-	-	-	-		
Zygomycetes	-	-	-	-	-	-	-	-	-		
Total Fungi	1	21	100	1	21	100	4	84	100		
Hyphal Fragment	-	-	-	1	21	-	-	-	-		
Insect Fragment	-	-	-	-	-	-	-	-	-		
Pollen	-	-	-	-	-	-	-	-	-		
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-		
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-		
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-		
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. 307 West 38th Street, 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 othewise 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. 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



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Attn:

The Louis Berger Group, Inc. 199 Water Street

23rd Floor

New York, NY 10038

EMSL Order: 031102220
Customer ID: LOUI56
Collected: 1/11/2011

Received: 1/28/2011 Analyzed: 1/29/2011

Proj: KT710G2

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

Lab Sample Number: Client Sample ID: Volume (L): Sample Location:	MAIN-2 150				031102220-0023 OWA-11 150 OUTSIDE AUSTIN RD			031102220-0024 OWA-12 150 OUTSIDE AUSTIN RD			
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total		
Alternaria	-	-	-	-	-	-	-	-	-		
Ascospores	-	-	-	-	-	-	-	-	-		
Aspergillus/Penicillium	2	42	100	-	-	-	-	-	-		
Basidiospores	-	-	-	-	-	-	-	-	-		
Bipolaris++	-	-	-	-	-	-	-	-	-		
Chaetomium	-	-	-	-	-	-	-	-	-		
Cladosporium	-	-	-	1	21	100	1	21	100		
Curvularia	-	-	-	-	-	-	-	-	-		
Epicoccum	-	-	-	-	-	-	-	-	-		
Fusarium	-	-	-	-	-	-	-	-	-		
Ganoderma	-	-	-	-	-	-	-	-	-		
Myxomycetes++	-	-	-	-	-	-	-	-	-		
Pithomyces	-	-	-	-	-	-	-	-	-		
Rust	-	-	-	-	-	-	-	-	-		
Scopulariopsis	-	-	-	-	-	-	-	-	-		
Stachybotrys	-	-	-	-	-	-	-	-	-		
Torula	-	-	-	-	-	-	-	-	-		
Ulocladium	-	-	-	-	-	-	-	-	-		
Unidentifiable Spores	-	-	-	-	-	-	-	-	-		
Zygomycetes	-	-	-	-	-	-	-	-	-		
Total Fungi	2	42	100	1	21	100	1	21	100		
Hyphal Fragment	-	-	-	-	-	-	-	-	-		
Insect Fragment	-	-	-	-	-	-	-	-	-		
Pollen	-	-	-	-	-	-	-	-	-		
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-		
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-		
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. 307 West 38th Street, New York NY AIHA-LAP, LLC--EMLAP Lab 102581

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John McCauley, Laboratory Manager or Other Approved Signatory

LOUI56

1/11/2011

1/28/2011

1/29/2011



Proj:

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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

Attn:

The Louis Berger Group, Inc. 199 Water Street

23rd Floor

New York, NY 10038

KT710G2

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

EMSL Order:

Customer ID:

Collected:

Received:

Analyzed:

Lab Sample Number: Client Sample ID: Volume (L): Sample Location:		031102220-0025 FB1 0 FIELD BLANK	3. 1	0	31102220-0026 FB2 0 FIELD BLANK			,	
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total		-	-
Alternaria	-	-	-	-	-	-		-	-
Ascospores	-	-	-	-	-	-			-
Aspergillus/Penicillium	-	-	-	-	-	-			-
Basidiospores	-	-	-	-	-	-			-
Bipolaris++	-	-	-	-	-	-			-
Chaetomium	-	-	-	-	-	-			-
Cladosporium	-	-	-	-	-	-			-
Curvularia	-	-	-	-	-	-			-
Epicoccum	-	-	-	-	-	-			-
Fusarium	-	-	-	-	-	-			-
Ganoderma	-	-	-	-	-	-			
Myxomycetes++	-	-	-	-	-	-			
Pithomyces	-	-	-	-	-	-			-
Rust	-	-	-	-	-	-			
Scopulariopsis	-	-	-	-	-	-			
Stachybotrys	-	-	-	-	-	-			
Torula	-	-	-	-	-	-			
Ulocladium	-	-	-	-	-	-			
Unidentifiable Spores	-	-	-	-	-	-			-
Zygomycetes	-	-	-	-	-	-			-
Total Fungi	-	No Trace	-	-	No Trace	-			-
Hyphal Fragment	-	-	-	-	-	-			-
Insect Fragment	-	-	-	-	-	-			-
Pollen	-	-	-	-	-	-	_	-	-
Analyt. Sensitivity 600x	-	0	-	-	0	-			
Analyt. Sensitivity 300x	-	0*	-	-	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. 307 West 38th Street, 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 othewise 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. EMSL maintains liability limited to cost of anaysis. 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