



# Liberty OHM

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March 11<sup>th</sup>, 2016

Mr. Marty Foutch  
Facilities Director  
Bixby Public Schools  
109 N. Armstrong  
Bixby, OK 74008

**CC: Mr. Richard Walters  
Maintenance Department**

**RE: Bixby Public Schools Administration Building - 25% IAQ  
Liberty OHM File Number 15-183**

Dear Mr. Foutch:

On February 24<sup>th</sup>, 2016, Liberty OHM conducted quality assurance testing at the Bixby Public Schools Administration Building. A total of 25% of the rooms were selected and tested at random for indoor air quality (spore count).

## **Findings**

On February 24<sup>th</sup>, 6 rooms, for a total of 25% of the Bixby Public Schools Administration Building, were selected at random and tested. The ratio of total indoor/outdoor airborne mold concentrations was not elevated on the day of testing.

The following observations were noted:

- No visible mold or water intrusion/damage was found on the day of testing.

Table 1 shows the results of the air samples taken from the selected rooms on February 24<sup>th</sup> during normal school hours.

## **Recommendations**

1. No recommendations are provided at this time.

## **Disclaimer**

Liberty OHM makes no assertion as to the health risks associated with the levels reported in this report. We make no correlation that the levels reported are safe for occupancy or do not pose a risk from exposure. We advise you, our client to consult with an Occupational Health or other qualified physician for additional information and guidance.

IAQ Results – Quality Assurance Testing – Bixby Public Schools Administration Building

Survey Date: February 24<sup>th</sup>, 2016

Report Date: March 11<sup>th</sup>, 2016

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If you have questions or need additional information, please let me know.

Sincerely,

A handwritten signature in black ink, appearing to read "Jack Kerr". The signature is written in a cursive style with a large initial "J" and "K".

Jack Kerr, B.S.  
EH&S Project Manager  
Liberty OHM

<b>Table 1</b> <b>Bixby Public Schools Administration Building</b> <b>25% Random Air Monitoring</b> <b>Survey Date: February 24<sup>th</sup>, 2016</b>					
<b>Location</b>	<b>Total spores/m3</b>	<b>Species</b>	<b>Raw count</b>	<b>Calc. count</b>	<b>% of total</b>
1: Eddie Burns Office	N/A				
2: Helen Hemphill	20	Penicillium/Aspergillus types	1	7	33
		Other brown	1	7	33
		Alternaria	1	7	33
3: Enrollment Center	N/A				
4: Daniel Ortiz	13	Cladosporium	1	7	50
		Alternaria	1	7	50
5: Virginia Barnett	13	Other brown	1	7	50
		Curvularia	1	7	50
6: Upstairs Lobby	7	Smuts, Periconia, Myxomycetes	1	7	100
7: Outside Reference	73	Rusts	3	20	27
		Cladosporium	2	13	18
		Basidiospores	2	13	18
		Smuts, Periconia, Myxomycetes	1	7	9
		Other brown	1	7	9
		Bipolaris/Drechslera group	1	7	9
		Ascospores	1	7	9



Liberty OHM

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## **APPENDIX A**

## **LABORATORY RESULTS**



Report for:

**Dylan Albert**  
**Liberty OHM**  
1211 E 39th St  
Tulsa, OK 74105

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Regarding: Project: 15-183; Bixby Admin 25%  
EML ID: 1499258

Approved by:

Dates of Analysis:  
Spore trap analysis: 02-26-2016

Operations Manager  
Joshua Cox

Service SOPs: Spore trap analysis (EM-MY-S-1038)  
AIHA-LAP, LLC accredited service, Lab ID #102297

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All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the items tested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

EMLab P&K's LabServe® reporting system includes automated fail-safes to ensure that all AIHA-LAP, LLC quality requirements are met and notifications are added to reports when any quality steps remain pending.

Client: Liberty OHM  
C/O: Dylan Albert  
Re: 15-183; Bixby Admin 25%

Date of Sampling: 02-24-2016  
Date of Receipt: 02-25-2016  
Date of Report: 02-26-2016

### SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	1: Eddie Burns Office				2: Helen Hemphill				3: Enrollment Center				4: Daniel Ortiz			
Comments (see below)	A				None				A				None			
Lab ID-Version‡:	6932577-1				6932578-1				6932579-1				6932580-1			
Analysis Date:	02/26/2016				02/26/2016				02/26/2016				02/26/2016			
Sample volume (liters)	150				150				150				150			
Background debris (1-4+)††	3+				3+				2+				3+			
	Count	Count/m3	DL/m3*	%	Count	Count/m3	DL/m3*	%	Count	Count/m3	DL/m3*	%	Count	Count/m3	DL/m3*	%
Hyphal fragments	8	53	7	n/a	1	7	7	n/a	1	7	7	n/a	3	20	7	n/a
Pollen	1	7	7	n/a	1	7	7	n/a	1	7	7	n/a				
<b>§ TOTAL FUNGAL SPORES</b>		< 7	n/a	100	3	20	n/a	100		< 7	n/a	100	2	13	n/a	100
Alternaria					1	7	7	33					1	7	7	50
Ascospores																
Basidiospores																
Bipolaris/Drechslera group																
Chaetomium																
Cladosporium													1	7	7	50
Curvularia																
Other brown					1	7	7	33								
Penicillium/Aspergillus types					1	7	7	33								
Rusts																
Smuts, Periconia, Myxomycetes																
Stachybotrys																
Ulocladium																

**Comments:** A) No spores detected.

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

\*The DL/m3 has been rounded to a whole number.

††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher then reported. It is important to account for samples volumes when evaluating dust levels.

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Fungal Spores has been rounded to two significant figures to reflect analytical precision.

Client: Liberty OHM  
C/O: Dylan Albert  
Re: 15-183; Bixby Admin 25%

Date of Sampling: 02-24-2016  
Date of Receipt: 02-25-2016  
Date of Report: 02-26-2016

**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	5: Virginia Barnett				6: Upstairs Lobby				7: Outside Reference			
Comments (see below)	None				None				None			
Lab ID-Version‡:	6932581-1				6932582-1				6932583-1			
Analysis Date:	02/26/2016				02/26/2016				02/26/2016			
Sample volume (liters)	150				150				150			
Background debris (1-4+)††	3+				3+				3+			
	Count	Count/m3	DL/m3*	%	Count	Count/m3	DL/m3*	%	Count	Count/m3	DL/m3*	%
Hyphal fragments												
Pollen									13	87	7	n/a
<b>§ TOTAL FUNGAL SPORES</b>	2	13	n/a	100	1	7	n/a	100	11	73	n/a	100
Alternaria												
Ascospores									1	7	7	9
Basidiospores									2	13	7	18
Bipolaris/Drechslera group									1	7	7	9
Chaetomium												
Cladosporium									2	13	7	18
Curvularia	1	7	7	50								
Other brown	1	7	7	50					1	7	7	9
Penicillium/Aspergillus types												
Rusts									3	20	7	27
Smuts, Periconia, Myxomycetes					1	7	7	100	1	7	7	9
Stachybotrys												
Ulocladium												

**Comments:**

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

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S. San Francisco, CA:

Shorline Ct. Ste 203, S. San Francisco, CA 94080 • (966) 888-6653

**CONTACT INFORMATION**

Company: Liberty OHM ( 12589)

Address: 1211 E. 39th St. Tulsa, OK 74105

**Contact: Dylan Albert**

Special Instructions: Please E-Mail Results to [Dylan@libertyohm.com](mailto:Dylan@libertyohm.com)

Phone/Email: 918- 845-0122 / Dylan@ilbertvohm.com

## PROJECT INFORMATION

Project ID: 15-143

Project Desc.:	Fix Admin 25%
----------------	---------------

Project	Sampling
izin Code:	Date & Time: 2-26-16

PO Number:

## TURN AROUND TIME CODES : (STAT)

STD - Standard (DEFAULT)

**ND - Next Business Day**

SD - Same Business New Risk

### Weekend Holiday


Rushes received after 2pm on or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume/Area (as)	NOTES (Time of day, Temp, RH, etc.)
1	Eddie Burns office	ST	STD	150L	
2	Helen Hemphill				
3	Enrollment Center				
4	Danielwitz				
5	Virginia Barnett				
6	Upstairs Lobby				
7	Outside Reference	I	I	I	

SAMPLE TYPE CODES		RELINQUISHED BY		DATE & TIME
BC - BioCassette™	ST - Spore Trap; Zefon,	T - Tapo	D - Dust	
A1S - Andersen	Allergenco, Burkard...	SW - Swab	SO - Soil	
SAS - Surface Air Sampler	P - Potable Water	B - Bulk		
CP - Contact Plate	NP - Non-Potable Water	O - Other:		

WEATHER	Fog	Rain	Snow	Wind	Clear
None					
Light					
Moderate					
Heavy					

Non-Culturable		Culturable		Water, Bulk, Dust, Soil, Contact	Request
Spore Trap	Swab Bulk	Tape	Swab Bulk		
Fungal - Spore Trap Analysis					
Spore Trap Analysis - Other particles					
Dried Microscopic Exam (Qualitative)					
Quantitative Spore Count Dried Exam					
1-Media Surface Fungi (Genus ID + Asp. spp.)					
2-Media Surface Fungi (Genus ID + Asp. spp.)					
3-Media Surface Fungi (Genus ID + Asp. spp.)					
Culturable Air Fungi (Genus ID + Asp. spp.)					
Gram Stain and Counts (Culturable Air and Surface Bacteria)					
Legionella culture					
Total Coliform, E. coli (Presence/Absence)					
Membrane Filtration (Please specify organism)					
MPN Bacteria (Please specify organism)					
QuantTray - Sewage Screen					
Asbestos Analysis - PCM Airborne Fiber Count (NIOSH 740)					
Asbestos Analysis - PLM (EPA method 600/R-93-116)					
PCR (Please specify test)					

RECEIVED BY:	DATE & TIME
	

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