

November 17th, 2015

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

CC: Jarred Doubrava

Operations Support Manager/District Safety Coordinator

RE: Focused Inspection of:

• Bixby North Elementary – Room 230

Dear Mr. Foutch:

On November 9th, 2015, Liberty OHM visited Bixby North Elementary to conduct quality assurance testing. The testing at the above location was in response to concerns expressed by Bixby Public Schools staff.

The following observations were noted:

- Approval for inspections/sampling was relayed to Liberty OHM through Jarred Doubrava pertaining to Room 230. An inspection of the room was conducted. No signs of water intrusion or damage were present. No staining of building materials (walls, floors, ceilings, etc.) was observed.
- An air sample was taken in the room as well as an outside reference. Lab results from the November 9th sampling revealed normal environmental levels of airborne fungi in the selected room. No elevated concentrations of the water intrusion/indicator molds Penicillium/Aspergillus, Chaetomium, Stachybotrys, or other water intrusion/indicator molds were found in the rooms.

Lab results are provided below.

Recommendations

• No recommendations are provided at this time.

Disclaimer

Bixby North Elementary Room 230 – Focused IAQ Inspection

Liberty OHM File Number 15-183

Survey Date: 11/9/2015

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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.

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

Sincerely,

Jack Kerr, B.S.

EH&S Project Manager

Liberty OHM

Bixby North Elementary Room 230 – Focused IAQ Inspection

Liberty OHM File Number 15-183

Survey Date: 11/9/2015

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Table 1 Bixby North Elementary Spore Trap Analysis Sampling Date: 11/9/2015

Location	Total spores/m3	Species	Raw count	Calc. count	% of total
1: Room 230	190	Basidiospores	14	93	50
		Penicillium/Aspergillus types	6	40	21
		Cladosporium	6	40	21
		Ascospores	2	13	7
2: Outside	4,000	Basidiospores	414	2,800	69
Reference		Cladosporium	80	530	13
		Ascospores	54	360	9
		Penicillium/Aspergillus types	38	250	6
		Smuts, Periconia, Myxomycetes	10	67	2
		Epicoccum	2	13	< 1
		Pithomyces	1	7	< 1
		Bipolaris/Drechslera group	1	7	< 1
		Alternaria	1	7	< 1



APPENDIX A LABORATORY RESULTS



Report for:

Jack Kerr Liberty OHM 1211 E 39th St Tulsa, OK 74105

Regarding: Project: 15-183; Bixby North Elementary

EML ID: 1452960

Approved by:

Operations Manager Joshua Cox

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

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

Dates of Analysis:

Spore trap analysis: 11-13-2015

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.

1501 West Knudsen Drive, Phoenix, AZ 85027 (800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: Liberty OHM C/O: Jack Kerr Re: 15-183; Bixby North Elementary Date of Sampling: 11-09-2015 Date of Receipt: 11-10-2015 Date of Report: 11-13-2015

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	1: Room 230				2: Outside Reference				
Comments (see below)	None				None				
Lab ID-Version‡:		6706754-1				6706755-1			
Analysis Date:		11/13/2015				11/13/2015			
Sample volume (liters)		150				150			
Background debris (1-4+)††	2+				2+				
	Count	Count/m3	DL/m3*	%	Count	Count/m3	DL/m3*	%	
Hyphal fragments					6	40	7	n/a	
Pollen									
§ TOTAL FUNGAL SPORES	28	190	n/a	100	601	4,000	n/a	100	
Alternaria					1	7	7	< 1	
Ascospores	2	13	7	7	54	360	7	9	
Basidiospores	14	93	7	50	414	2,800	7	69	
Bipolaris/Drechslera group					1	7	7	< 1	
Chaetomium									
Cladosporium	6	40	7	21	80	530	7	13	
Epicoccum					2	13	7	< 1	
Penicillium/Aspergillus types	6	40	7	21	38	250	7	6	
Pithomyces					1	7	7	< 1	
Smuts, Periconia, Myxomycetes					10	67	7	2	
Stachybotrys									
Torula									
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.

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.

Aerotech Laboratories, Inc EMLab ID: 1452960, Page 2 of 2

^{*}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.

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San Bruno, CA: 1150 Bayhill Drive, #100, San Bruno, CA 94066 * (866) 888-6653 New Jersey: 3000 Lincoln Crive F.est, Suite A, Marilon, NJ 88053 * (866) 871-1884 Phoenix, AZ: 1501 West Knodsen drive, Phoenix, AZ 85027 * (860) 651-4802

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Project Description: Project Phone: A1S - Anderson CP - Contact Plate SAS - Surface Air Sempler **SC** - BioCassette ™ PO Number: Project ID: Company Zip Cade: Contact Sample IO Ð 918-742-1567 Jack Kerr Liberty OHM (12589) Eixby Nach Elementary Chikide 15-183 PROJECT INFORMATION P - Potable Water NP - Non-Polable Water Allergenco, Burkard ... ST - Spore Trap: Zefon, SAMPLE TYPE CODES Description Reference Sampled By: Zuk Date & Time: CONTACT INFORMATION 0-Other: B-Bulk SW - Swab T -- Tape Special Instructions: Address: 1211 E 39th St Tulse, OK 74105 USA Maker Band Sample Type (Sebw) A A 80 - Soil D-0151 8 TAT (Above) WiH - Weekend / Hofiday SD - Same Business Day Rush ND - Kext Business Day TEMPORAL DESCRIPTION OF THE PROPERTY OF THE PR TURN AROUND TIME CODES (TAT) Total Volume / Area (as applicable) RELINGUISHED BY 100 150 considered received the next business day. Flease pen or on weekends, will be (Sime of day, Temp, RV, otc.) weekend analysis needs Rushes received piler 2 elect us in advance of Notes DATE & TIKE Fungi – Spore Trap Analysis Spore Trap Analysis - Other particles Direct Microscopic Exam (Cualitative) Quantitative Spore Count Olrect Exam 1-Media Surface Fungi (Genus ID + Asp. spp.) RECEIVED BY 3-Media Surface Fungi (Genus ID + Asp., spp.) Culturable Air Fungi (Genus ID + Asp. spp.) Gram Stain & Counts (Culturable Air & Sorface Bacteria Total Conform, E. coli (Presence/Absonce) Membrane Filtration (specify organism): MPN Bacteria (specify organism): ChiantTray – Sewage Screen DATE & TIME Ashestos Anelysis - PCM Airborne Filter Count (NIOSH 7400) \Box Asbestos: Analysis -- PLM (EPA method 600/R-93-116) PCR (specify lest):

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