Liberty OHM

Established 1989

April 9th, 2013

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

CC: Jarred Doubrava
Operations Support Manager/District Safety Coordinator

RE: Revised Protocol for SPED Room Cabinets

Mr. Foutch:

As stated in an earlier phone conversation with you, Bixby Schools is going to perform the removal of the water stained cabinets in the SPED Room at Bixby Central Intermediate. We understand that the wall behind the cabinet is CMU block and should have no mold involvement.

- The removal of the cabinets should be done after hours when school is not in session.
- If once the cabinets are removed, additional effects from water damages are seen, Liberty OHM will conduct a second inspection of the area and provide additional recommendations for remediation.
- After the cabinets are removed the area should be HEPA vacuumed and sanitized with an antimicrobial solution such as Microban® or an equivalent solution. If visible mold is seen beneath the cabinet or in places not originally observable, wrap with poly sheeting and remove to dumpster.

Please contact our office if you have any questions or need any additional information.

Sincerely,

Rob Thompson, CIH, CSP
President – Liberty OHM

1.0 SUMMARY

On April 3rd, 2013, Liberty OHM visited the SPED Room at Bixby Central Intermediate located at 9401 E. 161st St. S., Bixby, OK. The purpose of this visit was to perform a survey and sampling in order to determine the type, concentration and causation of any mold/fungi present.

The ratio of *total* (all species combined) indoor/outdoor airborne mold concentrations **was** elevated on the day of testing. There were higher than outside concentrations of the water intrusion/indicator mold Penicillium/Aspergillus in the SPED Room on the day of testing. See Section 3.0 for detailed analysis and recommendations.

2.0 OBSERVATIONS AND NOTES

Liberty OHM arrived on site and was met by Jarred Doubrava of Bixby Schools. Mr. Doubrava proceeded to escort us throughout the room and show us all affected areas. Water staining was noticed on the south wall cabinet floors due to leaking plumbing pipes. A moisture meter was used to check the percent of moisture on the cabinet floors on the south side of the room. Elevated levels of moisture were found on the cabinet floors on the day of testing. Signs of leaks were observed on the day of testing in the four westernmost cabinets on the south wall.

3.0 ANALYSIS AND RECOMMENDATIONS

The following areas were selected for testing:

1. SPED Room (Air)
2. Cabinet Floor (Tape)
3. Outside Reference (Air)

Results are summarized in Tables 1 and 2 below.

Table 1
Bixby Central Intermediate – SPED Room IAQ
Spore Trap Analysis
Sample Date: 4/3/13

Location	Total spores/m3	Species	Raw count	Calc. count	% of total
1: Sped Room	290	Penicillium/Aspergillus types	32	210	73
		Cladosporium	6	40	14
		Basidiospores	2	13	5
		Smuts, Periconia, Myxomycetes	1	7	2
		Bipolaris/Drechslera group	1	7	2
		Ascospores	1	7	2
		Alternaria	1	7	2
3: Outside Reference	470	Cladosporium	39	260	55
		Penicillium/Aspergillus types	16	110	23
		Basidiospores	8	53	11
		Ascospores	7	47	10
		Epicoccum	1	7	1

Table 2 Bixby Central Intermediate – SPED Room IAQ Quantitative Spore Count (Tape Sample) Sample Date: 4/3/13		
Location:	2: Bottom Of Cabinet	
Comments (see below)	None	
Sample type	Tape sample	
Lab ID-Version:	4704701-1	
Analysis Date:	04/05/2013	
	raw ct.	spores/unit
Basidiospores		
Bipolaris/Drechslera group		
Botrytis		
Chaetomium		
Cladosporium		
Curvularia		
Epicoccum		
Fusarium		
Myrothecium		
Nigrospora		
Other colorless		
Penicillium/Aspergillus types	21	350
Pithomyces		
Rusts		
Smuts, Periconia, Myxomycetes		
Stachybotrys		
Stemphylium		
Torula		
Ulocladium		
Zygomycetes		
Background debris (1-4+)	4+	
Sample size	1	
Unit	1 cm2	
§ TOTAL SPORES/UNIT		350