



Liberty OHM

April 19th, 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: Post Remediation Verification
Liberty OHM File Number 12-179
Bixby Central Intermediate – SPED Room**

Dear Mr. Foutch:

On April 10th and April 17th, 2013, Liberty OHM visited the SPED Room of Bixby Central Intermediate located at 9401 E. 161st St. S., Bixby, OK. The purpose of these visits was to perform a post remediation verification (PRV) survey, to inspect the remediated areas for any evidence of dust/mold or debris and perform air sampling to verify if the air quality of the area is acceptable for build-back and occupancy.

Inspection Findings

- The visual inspection of the affected areas showed all surfaces to be clear of any construction debris. There was no evidence of visible mold, odors or staining of the remaining building materials, etc.
- On April 10th, a surface sample was taken of the floor where the cabinets were removed. High levels of Penicillium/Aspergillus were found. Results were communicated to Jarred Doubrava and additional cleaning was recommended.
- On April 17th, Liberty OHM visited the Central Intermediate SPED Room once again to verify all recommendations were followed and no surface mold existed.

Samples were taken at the following locations.

April 10th

1. SPED Room (Air)
2. Floor Where Cabinets Were Removed (Tape)
3. Hallway Outside SPED Room (Air)

4. Outside Reference

April 17th

1. SPED Room (Air)
2. Outside Reference (Air)
3. Floor Where Cabinets Were Removed (Tape)

Results and Conclusions

- Air samples were collected to determine the concentration and types of airborne fungi. An outside reference sample is collected as a reference for the basis of comparison. The sampling instruments are calibrated to a flow rate of 10 L/min, prior to use. Air-O-Cell cassettes are used to quantify mold spore concentration. This sampling device is utilized for the rapid collection of a wide range of airborne particles, including fungal spores.
- The results reported include viable and non-viable spores. The unit of measure for fungal counts is colony-forming units per cubic meter of air (i.e. C/m³).
- Laboratory results from the April 17th monitoring showed **normal** environmental mold levels. See Tables 1, 2, 3 and 4 below for additional information. Build back of the affected areas can begin immediately. No further testing is necessary.

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

Sincerely,



Jack Kerr - EHS Consultant – Liberty OHM

TABLE 3 Bixby Central Intermediate SPED Room PRV Spore Trap Analysis Sampling Date: 4/17/13					
Location	Total spores/m3	Species	Raw count	Calc. count	% of total
1: Sped Room	400	Basidiospores	11	110	28
		Penicillium/Aspergillus types	10	100	25
		Ascospores	7	70	18
		Cladosporium	6	60	15
		Other brown	3	30	8
		Alternaria	2	20	5
		Smuts, Periconia, Myxomycetes	1	10	3
2: Outside Reference	3,000	Basidiospores	86	860	29
		Cladosporium	82	820	27
		Ascospores	59	590	20
		Penicillium/Aspergillus types	53	530	18
		Smuts, Periconia, Myxomycetes	10	100	3
		Alternaria	5	50	2
		Oidium	1	10	<1
		Epicoccum	1	10	<1
		Curvularia	1	10	<1
		Chaetomium	1	10	<1

Table 4 Bixby Central Intermediate SPED Room PRV Quantitative Spore Count (Tape Sample) Sample Date: 4/17/13		
Location:	3: Floor Where Cabinets	
Comments (see below)	A	
Sample type	Tape sample	
Lab ID-Version:	4730936-1	
Analysis Date:	04/19/2013	
	raw ct.	spores/unit
Basidiospores		
Bipolaris/Drechslera group		
Botrytis		
Chaetomium		
Cladosporium		
Curvularia		
Epicoccum		
Fusarium		
Myrothecium		
Nigrospora		
Other colorless		
Penicillium/Aspergillus types		
Pithomyces		
Rusts		
Smuts, Periconia, Myxomycetes		
Stachybotrys		
Stemphylium		
Torula		
Ulocladium		
Zygomycetes		
Background debris (1-4+)	2+	
Sample size	1	
Unit	1 cm2	
§ TOTAL SPORES/UNIT		< 1