HMS, Inc.

HAZARD MANAGEMENT SERVICES, INC.

PO Box 576848 Modesto, CA 95357-6848 (209) 551-2000 • (209) 575-5657 Fax

March 4, 2009

Stan Dobbs, Interim Bond Director Solano County Community College 4000 Suisun Valley Road Fairfield, CA 94534

Dear Mr. Dobbs,

This reports lists the results of an exercise to determine mold spore populations in various locations of Building 1200. Several members of the college staff had reported odors in the buildings, and, since some water intrusion was apparent, the possibility of mold concentrations was an issue. On 2/25/09 James E Sharp and Tina Markley of Hazard Management Services, Inc. collected mold spore trap samples in an effort to determine the extent of mold contamination.

Observations

The ventilation system for the building was operating and the average temperature inside the building was 68°F. The outside temperature was about 60°F. Outside conditions were mostly sunny with a 10-15 mph wind. The samples were collected between 10:00 AM and noon. The Control Room attic where two samples were collected was very dusty but no particular odors were detected. Air movement was detectable. The seating area was very clean with no detectable water intrusion on the floors and walls. There was a six to eight foot diameter water damaged area on the ceiling area in the back of the seating area. The Green Room had a substantial water leak in one corner of the room. Three 2' X 4' false ceiling panels were saturated from the recent rain. The walls above the ceiling panels were wet and there was a water stain on the wall under the level of the panels. See Picture No. 1. There was a detectable musty odor at the ceiling level. Mold growth was seen on a wall above the panels but due to the geometry of the area a tape-lift sample could not be safely collected.

Procedures

A high volume vacuum pump was used to aspirate air through Zefon Air-O-Cell cassettes. The cassettes are designed to capture mold spores, pollen, dust and other particulates. The pump was calibrated at 10.0 liters of air per minute and each sample ran for exactly 15 minutes so that a total of 150 liters of air passed through each cassette.

One sample was set up on a ventilation duct in the Control Room attic near the damaged plaster shown in Picture No. 3. Another sample was also collected in the Control Room attic but was placed near the center edge of this level close to the edge. A sample was also set up in the auditorium area, stage left. The last interior sample was taken at the level of the ceiling panels in the Green Room.

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Two outside samples were taken for comparative purposes. One was taken outside the backstage area. It was collected prior to the interior samples. Another outside sample was collected outside an emergency exit door in the seating area. It was taken after the interior samples were collected.

All samples were uniquely identified and were sent along with a Chain of Custody to Forensic Analytical Specialties, Inc. for analysis by FASI Method IAQ 101. See attached laboratory accreditations.

Results

Following is a table which lists the results from each location.

Location	Spores/Cubic Meter of Air
Attic above Control Room - near leak	96
Stage left- seating area	260
Center - Control Room Attic	73
Outside- Backstage area	3300
Outside-Auditorium emergency exit	3600
Green Room -at false ceiling panels	820

The average outside total mold spore level was 3450 spores per cubic meter of air. The two samples collected in the Control Room attic and the one in the seating area were all very low when compared to outside levels. The sample taken in the Green Room was low when compared to outside levels but was about 5.7 times higher than the average of the other three interior samples. It also contained a couple of species (Ascospores and Penicillium/Aspergillus) that were not seen in the other interior samples although they were found in the outside samples.

When evaluating mold spore sample results it is a common practice to look at two issues. First, the interior samples should not significantly exceed outside levels. In this evaluation interior samples were significantly lower than outside spore levels.

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The second means to evaluate results is to compare species found inside and outside. If there are populations of given species found inside that are not also found outside there is a possibility for a reservoir of growth inside. In this evaluation there were no significant species found inside that were not also found outside.

Conclusion

Except for the fact that the Green Room sample was significantly higher than the other interior samples, there is no evidence of a current mold problem. However, the two major water leaks detected and shown in the attached pictures are conditions of concern. Mold spore levels will undoubtedly increase as the drywall and ceiling panels provide nutrient sources. In saturated areas dryrot of wood may also occur. It is imperative that water intrusion, which is apparently caused by roof leaks, be stopped or mold levels will undoubtedly increase.

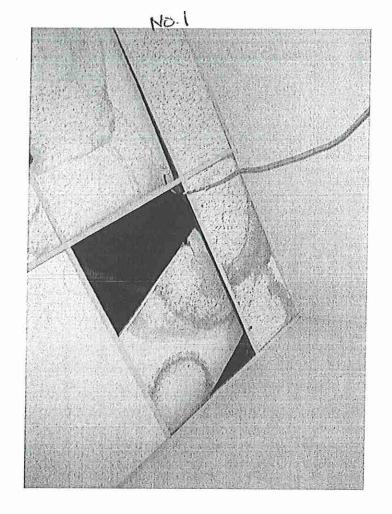
If you have any questions please call (209) 551-2000.

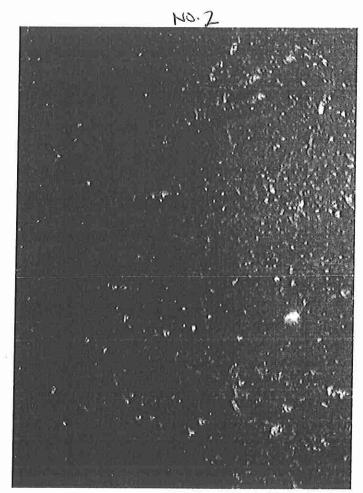
Sincerely,

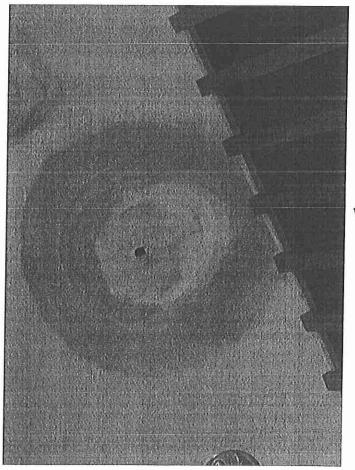
James E Sharp Cal/OSHA 05-3819

PICTURE LOG

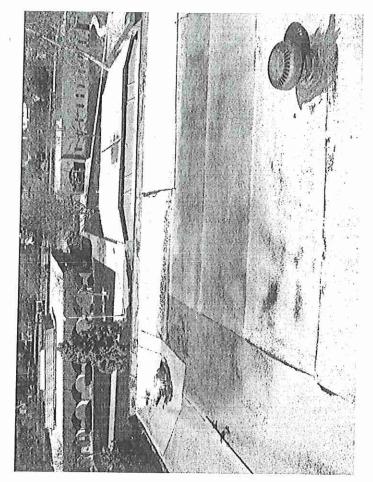
No. 1	Water damaged ceiling tiles in Green Room
No. 2	Mold growth on wall above ceiling panels in Green Room
No. 3	Water damage to plaster in Auditorium seating area.
No. 4/5	Two views of water pooling on roof near area where plaster ceiling is water damaged.



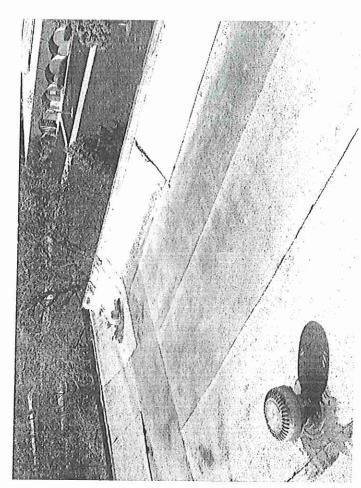




NO.3







NOS



Non-Viable Air Fungal Analysis

Hazard Mgmt Services - Modesto

Mike Sharp PO Box 576848

Modesto, CA 95357-6848

Sample Type: Zefon Sampler

Analysis: Job ID / Site:

Direct Microscopy; FASI Method IAQ 101

Solano County Community College, Bldg. 1200 - Auditorium

Client ID:

1146

Report Number: F077710

FASI Job ID:

1146

Date Received: 02/27/09

Date Analyzed: 03/02/09

Date Printed:

03/03/09

First Reported: 03/03/09

Lab Number		40	097381			40	097382			40	097383	
Sample ID		HMS N	109-024-0	01		HMS N	109-024-02	2	1	HMS N	/109-024-0	3
Location	A	ttic abo	ve contro	l rm	S	tage left	- seating a	area	C	Center - c	control rm	attic
Sample Date			/25/09			02	/25/09		 	02	/25/09	
Volume		18	50.0 L			15	0.0 L			15	50.0 L	
Organism	Spores [†]	%	LOD	S/m ³	Spores*	%	LOD	S/m ³	Spores*	%	LOD	S/m ³
Alternaria	-	+ "		in all the	17.1		-	-		-	-	
Ascospores		÷			-	-	-		-	*	-	
Basidiospores	5	93	18	89	3	20.2	18	53	2	48.5	18	- (
Bipolaris / Dreschlera	-			55. 14	-	-	-		-	-		
Botrytis	-	-	-			-	- 1	-	-	- 4		
Chaetomium	- 1	-	-	JA 14 - 15 -	- 1	2	-		1	9.1	6.7	6
Cladosporium	-	:-		- 5.74	10	67.2	18	180	1	24.2	18	1
Epicoccum	-	//e	940		1	2.5	6.7	6.7	-	-	-	
HYPHAL FRAGMENTS *	-	12	47	Territoria	3		18	53	1	-	18	1
Oidium		-	÷		-	11 5 5	-		- 1	-	-	
Penicillium / Aspergillus	-	•	•	. Tes	-		7-2	-	-	*		
Rusts/smuts/myxomycetes	•			F308 - 27 -	4	10.1	6.7	27	2	18.2	6.7	1
Ulocladium	1	7	6.7	6.7	-	-	121	-		-		
								81.8				
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otal	6			96	18			260	6			73
articulate Density		Mi	nor			Abur	ndant			Ma	ajor	
comments												



Non-Viable Air Fungal Analysis

Hazard Mgmt Services - Modesto

Mike Sharp PO Box 576848

Modesto, CA 95357-6848

Sample Type: Zefon Sampler

Analysis:

Direct Microscopy; FASI Method IAQ 101

Client ID:

1146

Report Number: F077710

FASI Job ID:

1146

Date Received: 02/27/09

Date Analyzed: 03/02/09

Date Printed:

03/03/09

First Reported: 03/03/09

Lab Number		400	97384			400	97385			400	097386	
Sample ID		HMS N	109-024-0)4	1	HMS M	09-024-0	5		HMS N	109-024-0	6
Location	Oi	utside - b	ackstage	area	Oı	utside - e	mergency	exit	Gre	en Rm c	eiling - we	t area
Sample Date		02.	/25/09		4	02	/25/09		 	02	/25/09	
Volume		15	0.0 L		-	15	0.0 L				50.0 L	
Organism	Spores*	%	LOD	S/m ³	Spores [†]	%	LOD	S/m ³	Spores*	%	LOD	S/m ³
Alternaria	1	0.2	6.7	6.7		(2)	+	-	-	*	1-	
Ascospores	21	11.4	18	370	31	15.3	18	550	3	6.5	18	5
Basidiospores	106	57.3	18	1,900	133	65.5	18	2,400	25	54.4	18	44
Bipolaris / Dreschlera	-	-	-	-	1	0.2	6.7	6.7	-	24	~	
Botrytis	1	0.5	18	18	1	0.5	18	18	- 1	- 2	1 <u>2</u> 1	
Chaetomium	-	-		. 2 9	-			T - 1.5)	- 1	- 4	-	-
Cladosporium	47	25.4	18	840	34	16.8	18	600	12	26.1	18	21
Epicoccum	- 1	-			-	-	-					
HYPHAL FRAGMENTS *	-	-	-	-			-	-	1	(m)	18	1
Oidium	6	1.2	6.7	40	1	0.2	6.7	6.7			-	
Penicillium / Aspergillus	7	3.8	18	120	3	1.5	18	53	6	13	18	110
Rusts/smuts/myxomycetes	-	1.41	-			-	-	-	-	-	2	٠,
Ulocladium	1	0.2	6.7	6.7	-	2	-	1.2	-	-		
		-										
			-72- 5									
	100			8377				S ₁₁ 7				
Total	190			3,300	204			3,600	46			820
Particulate Density		Mi	nor			Tra	ace			Mi	nor	



Non-Viable Air Fungal Analysis

Hazard Mgmt Services - Modesto

Mike Sharp PO Box 576848

Modesto, CA 95357-6848

Client ID: 1146

Report Number: F077710

FASI Job ID:

1146 02/27/09

Date Received:

03/02/09 Date Analyzed:

Date Printed:

03/03/09

First Reported: 03/03/09

Sample Type:

Zefon Sampler

Analysis:

Direct Microscopy; FASI Method IAQ 101

Job ID / Site:

Solano County Community College, Bldg. 1200 - Auditorium

Explanations:

Spores*

Actual number of spores counted in portion

of sample examined

%

Percent of Total

LOD

Limit of Detection (Units are the same as result units)

S/m3

Spores per cubic meter of air sampled

Spores/S

Number of spores per sample

Not included in Totals Calculations

TNTC

Too Numerous To Count

ND

None Detected

Particulate Density

Amount of background particulate present

Background Particulate Density Estimated As Follows:

Trace

Very little present

Minor

Present but not in large quantity

Major

Present in most of sample

Abundant Overloaded Covering almost entire sample

Covering entire sample

Guidelines For Interpretation:

No accepted quantitative regulatory standards currently exist by which to assess the health risks related to mold exposure. Molds have been associated with a variety of health effects and sensitivity varies from person to person.

Several organizations, including: the American Conference of Governmental Industrial Hygienists (ACGIH); the American Industrial Hygiene Association (AIHA); the Indoor Air Quality Association (IAQA); the United States Environmental Protection Agency (USEPA); the Centers for Disease Control (CDC), as well as the California Department of Health Services (CADHS), have all published guidelines for assessment and interpretation of mold resulting from water intrusion in buildings.

FALI reports soley the organisms observed on the sample(s). This is not an inclusive list of the fungal types identified in the microbiology laboratory.

Melissa Piercey, Microbiology Laboratory Supervisor, Hayward Laboratory

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