

2351 W. Northwest Hwy., Suite 3321 Dallas, Texas 75220 Ph: (214) 350-5469 Fax: (214) 350-2914

July 8, 2013

Lewisville Independent School District 340 Lake Haven Lewisville, Texas 75057 Attn: Mr. Paul Siddall

Re: Limited Mold Assessment Services Textbook Warehouse Room B204 521 E. Business 121 Lewisville, Texas. SWG Project No. 0113H175

Introduction

Southwest Geoscience (SWG) conducted limited mold assessment activities for the Lewisville Independent School District (Lewisville I.S.D.) within the Textbook Warehouse located at 521 E. Business 121 in Lewisville, Texas (hereinafter referred to as the "Site"). The investigation was limited to areas of the Site identified by Lewisville I.S.D. as described below. The assessment was performed by Mr. Clinton S. Jech, a State of Texas licensed Mold Technician (License # MAT1075), on July 2, 2013. SWG's mold services definitions and limitations are included as an attachment to this report.

Investigation Areas

Lewisville I.S.D. identified the following physical portions of the Site as the target investigation areas ("Investigation Areas") for mold assessment: readily accessible areas within Room B204. SWG's mold assessment services were limited to the Investigation Area(s) identified by Lewisville, I.S.D. Additional areas or portions of the Site were out-of-scope and not included in SWG's mold assessment or this report at this time.

Scope of Work

As set forth in SWG's Mold Assessment Proposal No. P0113H1258 dated July 2, 2013. SWG's scope-of-work was to provide visual and/or analytical mold assessment and related services in the Investigation Areas which included:

Visual Reconnaissance: SWG performed a visual reconnaissance of the Investigation Areas for visible indications of moisture intrusion (as indicated by staining or visible moisture) and/or suspect mold growth. SWG's visual reconnaissance only included readily accessible or visible portions of the Investigation Areas.

Suspect Mold Growth Sampling and Analysis: SWG collected limited ambient air samples for nonviable mold spores utilizing Air-O-Cell cassettes. "Air-O-Cell" refers to slit impaction air sampling cassettes manufactured by Zefon Analytical Accessories, St. Petersburg, Florida.

Site Reconnaissance Observations/Findings and Recommendations

SWG's Mold Assessment Site reconnaissance was performed on July 2, 2013 by Mr. Clinton S. Jech. SWG's visual reconnaissance of the Investigation areas revealed the following:

Temperature and Relative Humidity

Temperature readings collected inside the room were reported as 73.9 degrees Fahrenheit while relative humidity was reported as 36.3 percent. Temperature readings collected outside the building ranged from 89.7 to 91.5 degrees Fahrenheit while outside relative humidity ranged from 20.4 to 22.9 percent.



Relative humidity is a measure of the moisture content of air and is closely tied to the comfort of the office/workplace temperature. As with temperature, there are no regulations governing acceptable office/workplace humidity ranges. Humidity levels in the office/work place are not only related to health effects, but also have operational impacts on modern office equipment.

Workplace/office temperatures have historically been considered a subjective factor because the perception of uncomfortable temperature levels is specific to each individual. There are no regulations governing acceptable office/workplace temperature ranges, but significant research has been conducted which indicates that there are temperature ranges that are not only comfortable but also result in optimum performance. ASHRAE (American Society of Heating, Refrigerating & Air Conditioning Engineers) has published guidelines describing thermal environmental conditions that at least 80% of the persons who occupy that environment will find acceptable or "comfortable." Table I below explains the applicable limits and guidelines.

	Table I					
/	Acceptable Ranges Of Temperature A	And Humidity				
Relative Humidity	Winter Temperatures	Summer Temperatures				
30%	68.5 to 76°F	74 to 80°F				
40%	68.5 to 75.5°F	73 to 79.5°F				
50%	68.5 to 74.5°F	73 to 79°F				
60%	68 to 74°F	72.5 to 78°F				

SWG utilized a Protimeter Moisture Measurement System (MMS) instrument (Model No. BLD2000) to measure and diagnose dampness in the drywall within random areas. The MMS is a battery powered handheld unit that is equipped with hydrostick probes to measure moisture content in wood, drywall and other and non-conductive materials. The device measures electrical conductivity of building materials and compares the conductivity readings to an internal, electronic standard reading for normal or "dry" materials.

Moisture content readings were obtained by pushing the moisture probe pins into surfaces. The measured values were then displayed on a colored scale depicting if the materials measured were normal (dry), higher than normal but not critical (at risk) or contained excessive moisture levels (wet). Based on the manufacturer's guidelines, the instrument measurement values are described below:

< 5%	Out of Range
> 5% but < 16%	Normal
> 17% but < 20%	Higher than Normal but Not Critical
> 20%	Excessive Moisture Levels

Moisture meter readings taken from the walls within the room were reported as 10 - 12% which is considered normal by the manufacturer.

Air Monitoring Results

SWG collected one (1) sample from the interior of the building and two (2) samples from the exterior of the building. The microbial samples were analyzed by Steve Moody Micro Services, Inc. (SMMS) in Farmers Branch, Texas; SMMS is a State of Texas licensed mold analysis laboratory and accredited under the AIHA Laboratory Quality Assurance Program for Environmental Microbiology.



Air testing performed using spore traps found that airborne mold spores in the room were considerably lower and were qualitatively similar to those measured outside of the building at the time the sampling was performed. Total fungal spore concentration within the investigation area was reported as 1,300 counts/m³, while the exterior level ranged from 17,520 to 20,060 counts/m³. Two types of mold were identified at a higher concentration within the investigation area as compared to the sample collected from the exterior of the building. Air sample(s) collected within Room B204 reported Epicoccum as 20 counts/m³ while no exterior levels where reported and Stachybotrys was reported as 20 counts/m³ while no exterior levels where reported.

The American Conference of Governmental Industrial Hygienists (ACGIH) sets forth assessment criteria related to the "indoor/outdoor" relationship where the indoor air quality should be at or below that of outdoor air quality with regard to fungal spores (see ACGIH Bioaerosols, Assessment and Controls publication, 1999).

Suspect Mold

SWG observed no visible mold during the assessment. No odors or excessive dust were noted.

Conclusions and Recommendations

Based on SWG's limited assessment and the analytical results, it appears that the indoor air quality, as it relates to airborne fungi, was within recommended guidelines. However, due to the presence of Stachybotrys additional testing may be considered for a higher level of confidence.

If you have any questions regarding this report or if we can assist you with any other matter, please contact the undersigned at (214) 350-5469.

Sincerely, Southwest Geoscience

Darren G. Bowden Corporate Director Industrial Hygiene Services Texas Mold Assessment Consultant Lic. No. MAC0321

Attachments: Analytical Results/Chain of Custody Mold Services Definitions & Limitations/Standard of Care and Reliance



Analytical Results/Chain of Custody

		IAQ	viola Report		
Steve Moody M	icro Serv	vices, LLC	Summary DS	SHS License	e No.: LAB0117
2051 Valley View	v Lane			AIHA EM	PAT ID: 102577
Farmers Branch,	TX 75234	4 Phone: (972) 241-8460			
Client : So	outhwest	Geoscience - Dallas, TX	Lab Job No. 1	3F-07298	
Project : T	extbook V	Warehouse Room B204	Report Date 0 ⁷	7/03/2013	1:40 PM
Project # : 0	113H175	Sample Date: 07	7/02/2013		
Sample Type: S	pore Trap	, Non-cultured	Spore Trap Type: Zefon - Air-0	O-Cell	
Test Method: M	Iold: AST	M D7391-09 - Standard Profile			Page 1 of 2
			oscience - Dallas, TX (located at 2351 W NV ree sections; a summary section, a data detail		
Sample Number	Volume (liters)	Sample Description	Identification		Concentration spores/cubic meter
1	75	Exterior, West	Alternaria		520
1	15	* See Analytical Notes report for	Ascospores		1120
		further details	Aspergillus / Penicillium		360
			Basidiospores		10560
			Cladosporium		2480
			Coprinus		280
			Drechslera / Bipolaris group		40
			Ganoderma		80
			Hyphal / Spore Fragments		1320
			Myxomycete / Rust / Smut		720
			Pithomyces		40
				Total:	17520
2	75	Exterior, Northwest	Agrocybe		80
		* See Analytical Notes report for	Alternaria		360
		further details	Ascospores		680
			Aspergillus / Penicillium		840
			Basidiospores		11700
			Cladosporium		2920
			Coprinus		240
			Curvularia		40
			Drechslera / Bipolaris group		120
			Ganoderma		40
			Hyphal / Spore Fragments		1960
			Myxomycete / Rust / Smut		1040
			Nigrospora		40
			,	Total:	20060

IAO Mold Da

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Steve Moody Micro Services, LLC Summary	DSHS License No.: LAB0117
2051 Valley View Lane	AIHA EMPAT ID: 102577
Farmers Branch, TX 75234 Phone: (972) 241-8460	
Client : Southwest Geoscience - Dallas, TX	Lab Job No. 13F-07298
Project : Textbook Warehouse Room B204	Report Date 07/03/2013 1:40 PM
Project # : 0113H175 Sample Date : 07/02/2013	
	Type: Zefon - Air-O-Cell
Test Method: Mold: ASTM D7391-09 - Standard Profile	Page 2 of 2
On 7/2/2013, three (3) samples were submitted by Clint Jech of Southwest Geoscience - Dallas, 75220) for Spore Trap, Non-cultured mold analysis. This report consists of three sections; a sun notes section.	FX (located at 2351 W NW Hwy #3321, Dallas, TX
Sample Number Volume Sample Description (liters) (liters)	Identification Concentration spores/cubic meter
3 150 Room B204 Alternaria	100
* See Analytical Notes report for Aspergillus /	
further details Basidiospore	
Cladosporiur	
	Bipolaris group 40
Epicoccum	20
Hyphal / Spo	
	/ Rust / Smut 80
Stachybotrys	20
	Total: 1300
Results may not be reported except in full. Data contained in this test report relates only to the samples the results contained herein. Interpretation should be made by a qualified professional.	ested. This report does not express or imply interpretation of
Steve Moody Micro Services assumes no responsibility for the manner in which these samples were coll SMMS assumes no responsibility for the qualifications of personnel performing sampling and/or interpre-	
Analyst(s): Rebecca Lutz	
Lab Director: Steve Moody Approved Signa	tory: Mart
Thank you for choosing Steve Moody Micro Server	

IAO Mold Report

				IAQ	Mol	d Repo	ort					
Steve Moody Micr 2051 Valley View L		7]	Data I	Detail						LAB0117): 102577
Farmers Branch, TX		972) 24	41-8460									
Client : Sout	hwest Geoscience	e - Dal	las TX				La	h Iob	No. : 13F-	07298		
	book Warehouse							-	ate : 07/03		1.4() PM
Ū.	H175		Sample I	Data • (<i>רו רחו</i> דר	013	I.C.	port D	ate : 0770.	5/2015	1.40) I IVI
0			Sample L	Jale.			True	7.6		- 11		
Sample Type: Spor	-		1 1 1 1	C 1	Sŀ	ore Irap	i ype:	Zelon	- Air-O-C	en	P	1 6 1
Test Method: Mole											U	e 1 of 1
This report consists of thr	ee sections; a summa	-	on, a data de	tail sectio		n analytical 1	notes sect		ults may not	be report	ed exce	pt in full.
Sample ID:		1			2			3				
Location:		terior,	West		rior, No	rthwest		Room B2	204			
Debris Rating:		4			5			5				
Media Expires On:		Feb 20			Feb 20			Feb 20 ⁻	14			
Notes Included?:	See A	-	al Notes	See A		al Notes						
Volume:		75			75			150				
	raw ct.	MDL	spores/m ³	raw ct.	MDL	spores/m ³	raw ct.	MDL	spores/m ³			
Agrocybe				2	40.00	80						
Alternaria	13	40.00	520	9	40.00	360	5	20.00	100			
Ascospores	28	40.00	1120	17	40.00	680						
Aspergillus / Penicilli	um ⁹	40.00	360	21	40.00	840	7	20.00	140			
Basidiospores	132	80.00	10560	117	100.00	11700	14	20.00	280			
Chaetomium												
Cladosporium	62	40.00	2480	73	40.00	2920	19	20.00	380			
Coprinus	7	40.00	280	6	40.00	240						
Curvularia				1	40.00	40						
Drechslera / Bipolaris	group 1	40.00	40	3	40.00	120	2	20.00	40			
Epicoccum							1	20.00	20			
Ganoderma	2	40.00	80	1	40.00	40						
Hyphal / Spore Fragm	nents ³³	40.00	1320	49	40.00	1960	12	20.00	240			
Memnoniella												
Myxomycete / Rust /	Smut 18	40.00	720	26	40.00	1040	4	20.00	80			
Nigrospora				1	40.00	40						
Pithomyces	1	40.00	40									
Stachybotrys							1	20.00	20			
TOTALS	306		17520	326		20060	65		1300			
Analyst	R	ebecca	Lutz	R	ebecca	Lutz	Re	ebecca	Lutz			
Analysis Date		7/3/201	3		7/3/201	3		7/3/201	3			

Debris Rating Key:

0 - No debris detected.

- 1 Trace debris.
- 2 Light debris.
- 3 Moderate debris.

4 - Substantial debris.

5 - Extensive debris.

6 - Field blank.

NOTE: Debris defined as skin, fibers, pollen grains, insect parts, and/or other non-fungal particles.

		IAQ Mold Report	
<i>Steve Moody</i> 2051 Valley V	<i>Micro Services, LLC</i> iew Lane	Analytical Notes	DSHS License No.: LAB0117 AIHA EMPAT ID: 102577
Farmers Branc	h, TX 75234 Phone: (972) 241-8460	1	
Client : Project : Project # :	Southwest Geoscience - Dallas, TX Textbook Warehouse Room B204 0113H175 Sample		b Job No. : 13F-07298 port Date : 07/03/2013 1:40 PM
÷	Spore Trap, Non-cultured		Zefon - Air-O-Cell
	Mold: ASTM D7391-09 - Standard as of three sections; a summary section, a data of		Page 1 of 2 ion. Results may not be reported except in full.
Samples An	alyzed		
Sample No:	1 : Exterior, West		
Notes:	e i	1	Limit is 80 spores / cubic meter for lculated results, not raw numbers.
Sample No:	2: Exterior, Northwest		
Notes:			num Detection Limit is 100 spores / samples, use calculated results, not
Sample No:	3 : Room B204		
Notes:	50% Occluded.		
Field Blanks	5		
No discernabl Methods	e field blanks were submitted with thi	s set of samples.	
	TM D7391-09: Categorization and Quatical Microscopy.	uantification of Airborne Fungal S	tructures in an Inertial Impaction
Calculation:	Spores/cubic meter = (Raw spore cour	nt)*(MDL)	
Note: MDL (Minimum Detection Limit) is calcula	ted based upon 1 raw spore count	
Steve Moody	Micro Services recommends two sign	ificant figures for calculated value	es based on ASTM D7391-09.
	ust not be used by the customer to clait the Federal Government.	im product certification, approval	, or endorsement by AIHA, ISO, or

		IAQ Mold Re	port
2051 Valley Vi	<i>Micro Services, LLC</i> iew Lane h, TX 75234 Phone: (972)	Analytical Not	tes DSHS License No.: LAB0117 AIHA EMPAT ID: 102577
Test Method:	Southwest Geoscience - D Textbook Warehouse Roo 0113H175 Spore Trap, Non-cultured Mold: ASTM D7391-09 - s of three sections; a summary sec	m B204 Sample Date: 07/02/2013 Spore T Standard Profile	Lab Job No. : 13F-07298 Report Date : 07/03/2013 1:40 PM Frap Type: Zefon - Air-O-Cell Page 2 of 2 cal notes section. Results may not be reported except in full.
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<u>Chain o</u>	<u>f Custody</u>		Lab Jo	b#_13F-0720	98 AOC3
Page 1 o				<i>b</i> #	1
e call in advan	ce for immediate, after-hour, & week	kend pricing & availability.		<i>bb</i> #	
**••urnaround of Cu	lture Samples subject to Culture Gro				
<u>ASBESTOS</u> Bulk	PLM 1 day 2 day 3 d Analyze All		nediate	ASBESTOS TEM Air AHERA Method 6 hr Air 7402 (Modified) 1 da Bulk/Wipe/Micro Vac 1 da	ay $\Box 2 day \Box 3 day$
<u>PCM</u> Air (74 <u>TOTAL DUS</u>	00) 🗍 1 day 🗍 2 day 🗍 ST (0500/0600) 🗍 1 day 🗍		Immediate	Water 1 da Analyze Blanks 1	iy 2 day 3 day Yes No
	e (Tape / Bulk / (ir) [] 1 da Z Air Standard Profile e Blanks [] Yes [] 1	e 🗌 Air Expanded F		BACTERIA Heterotrophic Plate Count (HF HPC + Gram Stain HPC + 3 Gram Neg ID	PC) □3 day □3 day □5 day □6-8 day
Culture (Sv	vab / Bulk / Plate) 7-14 da			HPC + 5 Gram Neg ID Fecal Coliform (MPN)	☐6-8 day ☐3 day
<u>OTHER</u> :				Total Coliform & E Coli (P/A)	
	pany / City: <u>SWC</u>			# of Samples:	
Submitter's (7/2/2013
	Name: <u>Clinton S.</u>			Project #: Phone #:	011.3H175
	Albert Warehouse				72] 989-1031
	prmation: Name: <u>Clinton</u>				
	ts to: <u>Clint/Darcer</u> ress: Vcronica	~ /Veronia		P.O. #:	
				<u> </u>	
•				ired samples or excessive administrative ro	equests may incur additional fees—
•	nsulted Dud was		on Stil	by Tile	equests may incur additional fees-
•		condinsating		Location /	
Notes: <u>Uni</u>	nsulted Dud was	condinsating	Vol. / Area	Location /	Notes
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Notes: <u>Uni</u> Sample #	Sample Descr	ription	Vol. / Area if applicable 75	Location /	Notes
Notes: <u>Uni</u> Sample # L Z	Sample Dost was Sample Descr Extension, West Extension, North M	ription	Vol. / Area if applicable 75 .75	$T = 89.7 \cdot H = 20$ $T = 91.5 \cdot H = 20$ $T = 87.7 \cdot H = 20$ $T = 87.7 \cdot H = 20$ $M = 10 - 12 \cdot 1$	Notes 7.9 %- 0.4 %- 13 %
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Steve Moody Micro Services, LLC - 2051 Valley View Ln. - Farmers Branch, TX 75234 - Phone (972) 241-8460 / Fax (972) 241-8461 Q-00134-2013



Mold Services Definitions & Limitations/ Standard of Care and Reliance

Mold Services Definitions & Limitations

"Mold" defined. Mold is a general term used to describe various types of singledcelled naturally occurring biological organisms occurring worldwide. For purposes of this report (and the Texas Mold Assessment & Remediation Rules), the term "mold" is broadly defined to include any living or dead fungi or related products or parts, including spores, hyphae, and mycotoxins.

Limited Scope of Mold Assessment. The scope of SWG's mold assessment services as reflected in the Proposal and this report are limited in that (i) they were physically limited to certain portions of the building structure (e.g., the Client identified Investigation Areas); and (ii) limited by accessibility to building materials or components within the Investigation Area(s). In contrast to a Limited Assessment" is a comprehensive assessment, which involves destructive sampling methods and the scope of the assessment typically extending to the entire building structure.

Time sensitive. Mold assessments are essentially a *"snap shot in time,"* and the results are only relevant at the time of site reconnaissance. Because mold, when biologically active, is a living organism, its presence is influenced and controlled by environmental conditions. Mold assessments, therefore, are "time sensitive" in that the presence and concentration of mold and similar organisms in building structures or in the air is directly influenced by environmental conditions (such as humidity, moisture, nutrients and substrates), whether natural or caused by man, which conditions may vary significantly over relatively short periods of time.

Methodologies. Currently, mold assessment methodologies and protocols in Texas are governed by persuasive guidelines (rather than promulgated federal/state or local regulations). Presently, there is no data that supports a threshold limit or dose-response relationship for exposure to mold aeroallergens, individual pathogens, opportunistic pathogens and/or mycotoxins. The Occupational Safety and Health Administration (OSHA), the National Institute of Occupational Safety and Health (NIOSH) and other non-governmental associations, have not yet established permissible exposure limits (PELs), recommended exposure limits (RELs), or other limit values for aeroallergens. Because no limit values presently exist, SWG will not and cannot represent that the site contains no harmful microbes, mold, fungi, or their metabolites, or other latent conditions beyond those identified by the limited scope of this mold assessment.

Findings limited. Findings from a limited mold assessment are limited because of the nature of the information obtained (e.g., visual reconnaissance of readily accessible areas of building structures, interview information, anecdotal information, and limited sampling data derived from one or more specific sampling events). SWG cannot warrant the accuracy of prior or subsequent information/data, reports and services performed by other firms at the Site. SWG assumes no responsibility or liability for errors in information or data provided by or through the client or third party sources. SWG's services are not to be construed as legal or medical interpretation or advice.



Moisture Intrusion Limitation. SWG performs mold assessment services and is not a moisture intrusion, HVAC, roofing, plumbing or building envelope specialist. However, during the course of conducting its mold assessment services, SWG will report observed areas of apparent moisture intrusion. SWG does not and will not investigate the cause or causes of such observed moisture intrusion. In the event apparent moisture intrusion is observed, SWG will recommend that the client contact a specialist (i.e., plumbing contractor, building envelope specialist, HVAC contractor, water intrusion specialist, etc.) to assist the client in determining the specific cause or causes of the moisture intrusion and remedial options.

Texas Licensing Requirements. SWG (and/or its personnel) will render the services set forth in this proposal in the capacity of a Texas licensed Mold Assessor. SWG is not licensed as a Mold Remediation Contractor and does not perform mold remediation. As of January 1, 2005, Texas law has required that Mold Assessors and Mold Remediation Contractors be licensed.

Mold Remediation Certificate. For mold remediation projects (above certain size thresholds), applicable Texas law (i.e., Texas Occupation Code Section 1958.54 and T.A.C. Section 295.397 (the Texas Mold Assessment and Remediation Rules), requires that a "Certificate of Mold Remediation" be issued by the Mold Remediation Contractor upon successful completion of the project. This certificate must be provided to property owners no later than the 10th day after the date on which the mold remediation is completed at a property. The Mold Remediation Certificate issued by the Mold Remediation Contractor must include a certification by the Mold Assessor that the mold remediation project has been successfully completed in accordance with the mold remediation protocol.

Be advised that SWG's issuance of a Mold Remediation Certificate upon successful completion of a Mold Remediation project does not mean, warrant or otherwise guarantee that mold will not be subsequently found in any portion of the Investigation Area or the Site. In the event that SWG is engaged to render services in connection with a mold remediation project, SWG will require *Client to provide to SWG a signed certificate prepared by Client's moisture intrusion specialist or appropriate contractor stating that all sources of moisture which resulted in the presence of mold in the Investigation Area have been fully remediated and corrected.*

Standard of Care

SWG performed its Services in accordance with generally accepted practices of the profession undertaken in similar services at the same time and in the same geographical area. No other warranties, expressed or implied, apply to the Services hereunder or this report.

Reliance

SWG's proposal for this project, services and this report have been prepared on behalf of and for the exclusive use of Lewisville Independent School District solely for their use and reliance in assessing the presence of mold in the Investigation Areas of the site. Lewisville Independent School District is the only party to which SWG explained the risks and limitations of the services and was solely involved in shaping the scope of services. Accordingly, reliance on this report by any other party may involve assumptions leading to an unintended interpretation of findings and opinions. With the consent of the client, SWG may offer reliance to third parties



or contract with other parties to develop findings and opinions related to such party's unique risk management concerns. Notwithstanding the foregoing, reliance by any and all third parties upon the proposal, the Services or this report shall be limited in the aggregate to all relying parties to the fair market value of the Services provided by SWG.