

DATE: December 11, 2013

TO: Julie Sheriff, Principal

SUBJECT: Southridge ES - IAQ - Room 402 & Data Room

Last night 12/10, Shawn Barr told me about the water on the floors of Room 402 & the Data Room. I inspected the rooms this morning and requested the Central Zone to remove the base boards in both rooms, and drill holes in the bottom of the wall, to have air circulation. As soon as the rooms are dry, I will request an Air Test be done in both rooms. If you have any questions, please contact me. Thanks, Paul

Paul Siddall Maintenance Energy Auditor (IAQ) Facility Services Lewisville ISD 469-446-8882



DATE: December 20, 2013

TO: Julie Sheriff, Principal

SUBJECT: Southridge ES - IAQ - Air Test Results - Room 402 & Data Room

On Wednesday 12/18, SWG Air tested the Room 402 and the Data Room. It is typically assumed that indoor spore levels in an area with filtered or air conditioned air, and activity levels associated with schools average 10% to 40% of the outdoor levels. Data from the airborne fungi sampling indicated that the total indoor concentration of mold/fungi in the Room 402, was **31.8**%, and in the Data Room **3.8%** of the outdoor levels. Utilizing this theory, the indoor concentrations are within the acceptable guidelines for areas with filtered air or air conditioning. If you have any questions, please call me. Thanks,

Paul

Paul Siddall Maintenance Energy Auditor (IAQ) Facility Services Lewisville ISD 469-446-8882



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

December 20, 2013

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

Re: Limited Mold Assessment Services Southridge Elementary School Room 402 and Data Room 495 W. Corporate Drive Lewisville, Texas LISD PO# P253387 SWG Project No. 0113H299

Introduction

Southwest Geoscience (SWG) conducted limited mold assessment activities for the Lewisville Independent School District (Lewisville I.S.D.) within Southridge Elementary School located at 495 W. Corporate Drive 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 Assessment Technician (License #MAT1075), on December 18, 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 402 and the Data Room. 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. 0113H1445 dated December 18, 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 December 18, 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 investigation areas on December 18, 2013 ranged from 73.9 to 74.1 degrees Fahrenheit while relative humidity ranged from 30.8 to 32.3 percent.



Temperature readings collected outside the building ranged from 70.8 to 75.4 degrees Fahrenheit while outside relative humidity ranged from 23.0 to 27.0 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 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 investigations areas ranged from 8-22% which is considered normal/excessive by the manufacturer.

Air Monitoring Results

SWG collected two (2) samples 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.

Room 402

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 1,500 counts/m³, while the exterior level ranged from 3,640 to 4,720 counts/m³.

Two (2) types of mold were identified at a higher concentration within the investigation area as compared to the samples collected from the exterior of the building. Alternaria reported as 20 counts/m³ and Drechslera/Bipolaris group reported as 20 counts/m³ while no exterior levels were reported.

Stachybotrys was reported as 20 counts/m³ within the room; however, higher levels of Stachybotrys were reported outside the building.

Technology Data Room

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 180 counts/m³, while the exterior level ranged from 3,640 to 4,720 counts/m³.

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

No visible mold was observed 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 presence of Stachybotrys, additional testing may be considered for a higher level of confidence. SWG recommends removing the wet sheetrock.



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

Barle

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 Mold Report

Summarv

Steve Moody Micro Services, LLC

2051 Valley View Lane

Farmers Branch, TX 75234 Phone: (972) 241-8460

Client : Southwest Geoscience - Dallas, TX

Sample Type: Spore Trap, Non-cultured

Southridge E.S., Room 402 and Data Room **Project :**

Project # : 0113H Sample Date : 12/18/2013 Spore Trap Type: Zefon - Air-O-Cell

Test Method: Mold: ASTM D7391-09 - Standard Profile

On 12/18/2013, four (4) samples were submitted by Clint Jech of Southwest Geoscience - Dallas, TX (located at 2351 W NW Hwy #3321, Dallas, TX 75220) for Spore Trap, Non-cultured mold analysis. This report consists of three sections; a summary section, a data detail section, and an analytical notes section.

Sample Number	Volume (liters)	Sample Description	Identification	Concentration spores/cubic meter
1	75	Exterior, South	Ascospores Aspergillus / Penicillium Basidiospores Cladosporium Epicoccum Fusarium Hyphal / Spore Fragments Myxomycete / Rust / Smut	40 240 600 2080 40 40 560 1120
			Total:	4720
2	75	Exterior, Southwest	Ascospores Aspergillus / Penicillium Basidiospores Cladosporium Curvularia Hyphal / Spore Fragments Myxomycete / Rust / Smut Nigrospora Pithomyces Stachybotrys	$240 \\ 80 \\ 1000 \\ 680 \\ 40 \\ 600 \\ 880 \\ 40 \\ 40 \\ 40 \\ 40 \\ 40 \\ 40 \\ 40 \\ 4$
			Total:	3640

DSHS License No.: LAB0117

AIHA EMPAT ID: 102577

Lab Job No. 13F-13813

Report Date 12/20/2013 12:53 PM

Page 1 of 2

IAQ Mold Report								
Steve Moody Mi 2051 Valley View Farmers Branch, 7	/ Lane	<i>vices, LLC</i> 54 Phone: (972) 241-8460	Summarv DSHS License No.: LAB0117 AIHA EMPAT ID: 102577					
Client : So	outhwest	Geoscience - Dallas, TX	Lab Job No	. 13F-13813				
		E.S., Room 402 and Data Room	Report Date	e 12/20/2013	12:53 PM			
Project # : 01	13H	Sample Date: 12	2/18/2013					
Sample Type: Sp	oore Trap	, Non-cultured	Spore Trap Type: Zefon - A	ir-O-Cell				
Test Method: M	old: AST	M D7391-09 - Standard Profile			Page 2 of 2			
		were submitted by Clint Jech of Southwest C ired mold analysis. This report consists of th						
Sample Number	Volume (liters)	Sample Description	Identification		Concentration spores/cubic meter			
3	150	Room 402	Alternaria		20			
-		* See Analytical Notes report for	Aspergillus / Penicillium		200			
		further details	Basidiospores		680			
			Cladosporium		260			
			Drechslera / Bipolaris group		20			
			Hyphal / Spore Fragments		240			
			Myxomycete / Rust / Smut		60 20			
			Stachybotrys		20			
				Total:	1500			
4	150	Data Room	Basidiospores		140			
			Hyphal / Spore Fragments		40			
		in full. Data contained in this test report relates of the tailor should be made by a qualified profession.		Total:	180 ly interpretation of			
	-	tation should be made by a qualified profession		haing garages in the	this laborate			
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Analyst(s): Rebe	ecca Lutz							
Lab Director: Bruc	e Crabb	A Thank you for choosing Steve M	pproved Signatory : Bune	Cull	• 			

			IAQ	Mo	ld Repo	ort					
Steve Moody Micro Services, LLC 2051 Valley View Lane Farmers Branch, TX 75234 Phone: (972) 241-8460											
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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	t	
Steve Moody	Micro Services, LLC	Analytical Notes	DSHS License	No.: LAB0117
2051 Valley V	iew Lane		AIHA EMP	AT ID: 102577
Farmers Branc	h, TX 75234 Phone: (972)	241-8460		
Client :	Southwest Geoscience - Da	hllas, TX	Lab Job No. : 13F-13813	
Project :	Southridge E.S., Room 40	2 and Data Room	Report Date : 12/20/2013	12:53 PM
Project # :	0113H	Sample Date : 12/18/2013		
Sample Type:	Spore Trap, Non-cultured	Spore Trap	Type: Zefon - Air-O-Cell	
Test Method:	Mold: ASTM D7391-09 -	Standard Profile		Page 1 of 1
This report consist	s of three sections; a summary sect	ion, a data detail section, and an analytical note	es section. Results may not be reporte	d except in full.
Samples An	alyzed			
Sample No:	3 : Room 402			
Notes:	50% Occluded.			
Field Blanks	5			
No discernabl	e field blanks were submitte	d with this set of samples.		
NOTE: All rem	aining samples suitable fo	r analysis.		
Methods				
	M D7391-09: Categorization Categorizatio	on and Quantification of Airborne Fur	gal Structures in an Inertial Ir	npaction
Calculation:	Spores/cubic meter = (Raw s	spore count)*(MDL)		
Note: MDL (Minimum Detection Limit)	is calculated based upon 1 raw spore	count.	
Steve Moody	Micro Services recommends	s two significant figures for calculated	values based on ASTM D739	91-09.
-	ust not be used by the custor the Federal Government.	ner to claim product certification, app	roval, or endorsement by AIH	A, ISO, or
		AIHA LAP, LLC ACCREDITED LABORATORY		

ENVIRONMENTAL MICROBIOLOGY ISO/IEC 17025:2005

WWW.AIHAACCREDITEDLABS.ORG

LAB # 102577

<u>Chain of Custody</u>	Lab Job # 13 F- 13813 Aoc 4
Page 1 of 1 SIVINS	Lab Job #
	Lab Job #
"Please call in advance for immediate, after-hour, & weekend pricing & availability.* **Turnaround of Culture Samples subject to Culture Growth**	
ASBESTOS PLM	ASBESTOS TEM
Bulk 1 day 2 day 3 day 5 day Immedia	te Air AHERA Method 6 hr 12hr 24 hr Air 7402 (Modified) 1 day 2 day 3 day
PCM Air (7400) ☐ 1 day ☐ 2 day ☐ 3 day ☐ 5 day ☐ Imm TOTAL DUST (0500/0600) ☐ 1 day ☐ 2 day	hediate Bulk/Wipe/Micro Vac 1 day 2 day 3 day Water 1 day 2 day 3 day Analyze Blanks Yes No
MOLD Non-culture (Tape / Bulk / kir) 1 day 🔀 2 day 🗌 Immedi Mair Standard Profile Air Expanded Profile Analyze Blanks Yes No Culture (Swab / Bulk / Plate) 7-14 day	
OTHER:	Fecal Coliform (MPN) 3 day Total Coliform & E Coli (P/A) 2-3 day
Billing Company / City: SWG Dallas	# of Samples:
Submitter's Company:	Sample Date: 12/18/2013
Submitter's Name: Clinton S. JECh	Project #: 01/3H
Project: Southridge ES Room 402 + Data Ro	
Contact Information: Name: Clinton S. Jech	
E-mail Results to: Clint/Durcan /Vacanica	
Invoice Address: Veronica	P.O. #:
- Please review paperwork and samples before submitting to lab. Unsealed / improperly packaged / dan	naged / expired samples or excessive administrative requests may incur additional fees-

Notes:							

	Sample #	Sample Descripti	on	Vol. / Area if applicable	Location / Notes
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	2	Exterior Southwest		75	TE 75.4 " H= 23.0 %.
	3	Room 407		150	T= 74.1 · H= 30.8 %.
					M= 8-10
					Caisings = Ceiling Till
					Walls = Shere+rock
	• 4	Data Room			Flowers + Carpet / Hoor Jico
ł				150	T= 73.9 • H= 32.3 %
					M= 10-22-74
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					Flapes + Har Sile
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					a flooded homes
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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.