

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

August 28, 2013

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

Re: Limited Mold Assessment Services Timber Creek Elementary School Rooms 303, 304 & 404 1900 Timber Creek Road Flower Mound, Texas SWG Project No. 0113H211

## **Introduction**

Southwest Geoscience (SWG) conducted limited mold assessment activities for the Lewisville Independent School District (Lewisville I.S.D.) within Timber Creek Elementary School located at 1900 Timber Creek Road in Flower Mound, 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 Consultant (License #MAT1075), on August 21, 2013 and August 23, 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 Rooms 303, 304 and 404. 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. 0113H1295 dated August 15, 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 August 21, 2013 and August 23, 2013 by Mr. Clinton S. Jech. SWG's visual reconnaissance of the Investigation areas revealed the following:

## Temperature and Relative Humidity

Temperature reading collected inside room 404 on August 21, 2013 was 78.8 degrees Fahrenheit while relative humidity was 30.2 percent. Temperature readings collected outside the



building ranged from 83.8 to 88.3 degrees Fahrenheit while outside relative humidity ranged from 46.2 to 50.9 percent.

Temperature readings collected inside rooms 303 and 304 on August 23, 2013 ranged from 73.5 to 74.6 degrees Fahrenheit while relative humidity ranged from 43.8 to 47.6 percent. Temperature readings collected outside the building ranged from 88.5 to 89.4 degrees Fahrenheit while outside relative humidity ranged from 51.7 to 52.4 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						
1	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 room were reported as 8 - 14 % which is considered normal by the manufacturer.



## Air Monitoring Results

SWG collected three (3) samples from the interior of the building and four (4) 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 404

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 800 counts/m<sup>3</sup> reported, while the exterior level ranged from 10,440 to 13,720 counts/m<sup>3</sup>.

Two (2) 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 404 reported Torula as 20 counts/m<sup>3</sup> while no exterior levels where reported. Stachybotrys was reported as 20 counts/m<sup>3</sup> within the room however, higher levels of Stachybotrys were reported outside the building.

### Room 303 and 304

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 ranged from 820 to 980 counts/m<sup>3</sup>, while the exterior level ranged from 12,840 to 13,840 counts/m<sup>3</sup>.

Three (3) 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 rooms 303 and 304 reported Pithomyces as 20 counts/m<sup>3</sup> while no exterior levels were reported, Alternaria was reported as 60 counts/m3 while no exterior levels were reported. Stachybotrys was reported range from 60 counts/m<sup>3</sup> while exterior levels were reported as 40 counts/m<sup>3</sup>.

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 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

Ele

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

0113H211

Sample Type: Spore Trap, Non-cultured

**Project :** Tembercreek ES, Room 404

Project # :

Lab Job No. 13F-09344 **Report Date** 08/22/2013 5:26 PM

Sample Date : 08/21/2013

Spore Trap Type: Zefon - Air-O-Cell

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

On 8/21/2013, three (3) 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
	75	Exterior, Northwest	Agaricus / Agrocybe Alternaria Ascospores Aspergillus / Penicillium Basidiospores Cercospora / Pseudocercospora Cladosporium Coprinus Curvularia Drechslera / Bipolaris group Epicoccum Fusarium Hyphal / Spore Fragments Myxomycete / Periconia / Rust / Smut Nigrospora Pithomyces Scopulariopsis Stachybotrys Total:	200 360 960 680 5280 360 2680 120 80 160 40 120 680 40 120 80 40 120 80 40 120 80 40 120 80 40 120 80 40 120 80 40 120 80 120 80 160 120 80 160 120 1720 680 120 1720 680 120 1720 680 120 1720 680 120 1720 680 120 1720 680 120 1720 680 120 1720 680 120 1720 680 120 1720 680 120 1720 680 120 1720 680 120 1720 680 120 1720 80 120 1720 80 120 1720 80 120 1720 80 120 1720 80 120 1720 80 120 1720 80 120 1720 80 120 1720 80 120 120 80 120 120 120 80 120 120 80 120 80 120 80 120 80 120 80 120 80 120 80 120 13720

DSHS License No.: LAB0117

AIHA EMPAT ID: 102577

Page 1 of 3

# **IAQ Mold Report Summarv**

Steve Moody Micro Services, LLC

0113H211

Sample Type: Spore Trap, Non-cultured

2051 Valley View Lane

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

#### **Client :** Southwest Geoscience - Dallas, TX

**Project :** Tembercreek ES, Room 404

Project # :

Lab Job No. 13F-09344

**Report Date** 08/22/2013

Sample Date : 08/21/2013

Spore Trap Type: Zefon - Air-O-Cell

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

On 8/21/2013, three (3) 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
2	75	Exterior, Northeast	Agaricus / Agrocybe Alternaria Ascospores Aspergillus / Penicillium Basidiospores Cercospora / Pseudocercospora Cladosporium Coprinus Curvularia Drechslera / Bipolaris group Epicoccum Fusarium Hyphal / Spore Fragments Myxomycete / Periconia / Rust / Smut Nigrospora Stachybotrys	$\begin{array}{c} 280 \\ 120 \\ 160 \\ 480 \\ 4240 \\ 80 \\ 1480 \\ 680 \\ 160 \\ 200 \\ 40 \\ 80 \\ 920 \\ 1400 \\ 80 \\ 40 \end{array}$
3	150	Room 404	Total: Ascospores Aspergillus / Penicillium Basidiospores Cladosporium Drechslera / Bipolaris group Hyphal / Spore Fragments Myxomycete / Periconia / Rust / Smut Stachybotrys Torula Total:	10440 20 60 280 60 60 180 100 20 20 20 800

5:26 PM

Page 2 of 3

DSHS License No.: LAB0117 AIHA EMPAT ID: 102577

		IA	Q Mold Report	t	
Steve Moody Ma 2051 Valley View		ices, LLC	Summarv		se No.: LAB0117 PAT ID: 102577
Farmers Branch,	ГХ 75234	Phone: (972) 241-8460			
Client : So	outhwest (	Geoscience - Dallas, TX		Lab Job No. 13F-09344	
Project : To	embercree	ek ES, Room 404		<b>Report Date</b> 08/22/2013	5:26 PM
U U	13H211	-	e: 08/21/2013		
Sample Type: S <sub>1</sub>	-			ype: Zefon - Air-O-Cell	
		M D7391-09 - Standard Profil			Page 3 of 3
		vere submitted by Clint Jech of South red mold analysis. This report consis			
Sample Number	Volume (liters)	Sample Description	1	dentification	Concentration spores/cubic meter
the results contained her Steve Moody Micro Ser	ein. Interpret	n full. Data contained in this test report i tation should be made by a qualified pro- es no responsibility for the manner in wh	fessional.	d or handled prior to being received a	
Analyst(s): Rob	Greene				
Lab Director: Stev	e Moody	— — — Thank you for choosing	Approved Signator Steve Moody Micro Services		

				IAQ	Mol	d Repo	ort				
Steve Moody Micro Servi	ces, LLC	7		]	Data I	Detail			DSHS	License I	No.: LAB0117
2051 Valley View Lane									AI	HA EMPA	AT ID: 102577
Farmers Branch, TX 75234	41-8460										
Client : Southwest Geoscience - Dallas, TX Lab Job No. : 13									No. : 13F-	09344	
Project : Tembercreek	KES, Ro	om 404	4				Re	port D	ate: 08/2	2/2013	5:26 PM
<b>Project # :</b> 0113H211			Sample I	Date: (	)8/21/2	2013					
Sample Type: Spore Trap,	Non-cult	ured	-		S	oore Trap	o Type:	Zefon	- Air-O-C	Cell	
Test Method: Mold: ASTN	/I D7391-	-09 - St	andard Pi	ofile	-	-					Page 1 of 2
This report consists of three section					n, and a	n analytical	notes sect	ion. Res	ults may not		•
Sample ID:		1	· · · · · · · · · · · · · · · · · · ·		2	•		3		1	
Location:	Exter	rior, No	rthwest	Exte	rior, No	rtheast		Room 4	04		
Debris Rating:		3			3		:	3			
Media Expires On:		Apr 20	14		Apr 20	14		Apr 20	14		
Notes Included?:											-
Volume:	1	75			75			150			
	raw ct.	MDL	spores/m <sup>3</sup>	raw ct.	MDL	spores/m <sup>3</sup>	raw ct.	MDL	spores/m <sup>3</sup>		
Agaricus / Agrocybe	5	40.00	200	7	40.00	280					
Alternaria	9	40.00	360	3	40.00	120					
Ascospores	24	40.00	960	4	40.00	160	1	20.00	20		
Aspergillus / Penicillium	17	40.00	680	12	40.00	480	3	20.00	60		
Basidiospores	132	40.00	5280	106	40.00	4240	14	20.00	280		
Cercospora / Pseudocercospora	9	40.00	360	2	40.00	80					
Chaetomium											
Cladosporium	67	40.00	2680	37	40.00	1480	3	20.00	60		
Coprinus	3	40.00	120	17	40.00	680					
Curvularia	2	40.00	80	4	40.00	160					
Drechslera / Bipolaris group	4	40.00	160	5	40.00	200	3	20.00	60		
Epicoccum	1	40.00	40	1	40.00	40					
Fusarium	3	40.00	120	2	40.00	80					
Hyphal / Spore Fragments	43	40.00	1720	23	40.00	920	9	20.00	180		
Memnoniella											
Myxomycete / Periconia / Rust / Smut	17	40.00	680	35	40.00	1400	5	20.00	100		
Nigrospora	1	40.00	40	2	40.00	80					
Pithomyces	3	40.00	120								
Scopulariopsis	2	40.00	80								
Stachybotrys	1	40.00	40	1	40.00	40	1	20.00	20		
Torula							1	20.00	20		
TOTALS	343		13720	261		10440	40		800		
Analyst		Rob Gre			Rob Gre			lob Gre			
Analysis Date		8/22/20	13		8/22/20	13		8/22/20	13		

		IAQ	Mold Repo	rt	
Steve Moody	Micro Services, LL	С	Data Detail	DSHS License	No.: LAB0117
2051 Valley View Lane			AIHA EMP	AT ID: 102577	
Farmers Branc	h, TX 75234 Phone:	(972) 241-8460			
Client :	Southwest Geoscien	ce - Dallas, TX		Lab Job No. : 13F-09344	
Project :	Tembercreek ES, R	oom 404		Report Date : 08/22/2013	5:26 PM
Project # :	0113H211	Sample Date :	08/21/2013		
Sample Type:	Spore Trap, Non-cul	tured	Spore Trap	Type: Zefon - Air-O-Cell	
Test Method:	Mold: ASTM D739	-09 - Standard Profile			Page 2 of 2
This report consist	s of three sections; a sumn	ary section, a data detail secti	on, and an analytical n	otes section. Results may not be reported	ed except in full.
Debris Rating Ke 0 - No debris detec 1 - Trace debris. 2 - Light debris. 3 - Moderate debri 4 - Substantial det	is.				

- 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

Steve Moody	Micro Services, LLC	Analytical Notes	DSHS License No.: LAB0117
2051 Valley V	iew Lane		AIHA EMPAT ID: 102577
Farmers Branc	ch, TX 75234 Phone: (972) 241-8460		
Client :	Southwest Geoscience - Dallas, TX	Lab Job N	l <b>o. :</b> 13F-09344
Project :	Tembercreek ES, Room 404	Report Da	te:08/22/2013 5:26 PM
Project # :	0113H211 Sample Dat	te: 08/21/2013	
Sample Type:	Spore Trap, Non-cultured	Spore Trap Type: Zefon	- Air-O-Cell
<b>Test Method:</b>	Mold: ASTM D7391-09 - Standard Prof	ïle	Page 1 of 1
This report consist	s of three sections; a summary section, a data detail	section, and an analytical notes section. Resul	ts may not be reported except in full.
NOTE: No abn	ormalities or exceptions noted during a	nalysis. All samples suitable for an	alysis.
NOTE: No disc	ernable field blanks were included with	n this sample set.	

## Methods

Method: ASTM D7391-09: Categorization and Quantification of Airborne Fungal Structures in an Inertial Impaction Sample by Optical Microscopy.

Calculation: Spores/cubic meter = (Raw spore count)\*(MDL)

Note: MDL (Minimum Detection Limit) is calculated based upon 1 raw spore count.

Steve Moody Micro Services recommends two significant figures for calculated values based on ASTM D7391-09.

This report must not be used by the customer to claim product certification, approval, or endorsement by AIHA, ISO, or any agency of the Federal Government.



LAB # 102577

Page of La	b Job # _/ <b>3F-09344 Aoc 3</b> b Job # b Job #
urnaround of Culture Samples subject to Culture Growth**	
ASBESTOS PLM         Bulk       1 day       2 day       3 day       5 day       Immediate         Analyze All       Positive Stop         PCM       Air (7400)       1 day       2 day       3 day       5 day       Immediate         TOTAL DUST       (0500/0600)       1 day       2 day       2 day       3 day       5 day       Immediate	ASBESTOS TEM         Air AHERA Method       6 hr       12hr       24 hr         Air 7402 (Modified)       1 day       2 day       3 day         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 (Air) [] 1 day 2 day [] Immediate Air Standard Profile [] Air Expanded Profile Analyze Blanks [] Yes [] No Culture (Swab / Bulk / Plate) [] 7-14 day OTHER:	BACTERIAHeterotrophic Plate Count (HPC)3 dayHPC + Gram Stain3 dayHPC + 3 Gram Neg ID6-8 dayHPC + 5 Gram Neg ID6-8 dayFecal Coliform (MPN)3 dayTotal Coliform & E Coli (P/A)2-3 day
Billing Company / City:	# of Samples: 3
Submitter's Company:	Sample Date: \$/21/2013
Submitter's Name: <u>Clinton 5. Jech</u>	Project #: 6131421
Project: Tembercreek ES Room 404	Phone #:
Contact Information: Name: Clinton S. Jech	Mobile #: (772) 989- 1031
E-mail Results to: <u>Clint/Darren/Veronica</u>	Fax #:
Invoice Address: Veronica	P.O. #:

Sample #	Sample Description	Vol. / Area if applicable	Location / Notes
1	Exterior, Northwest	75	T: 88.3° H= 46.2 %
2	Exterior, Northwest Exterior, Northeast	75	T= 83.8 H= 50.9 7.
3	Room 404	150	T=78.2 " H= 30.2 "10 M=9.14
			Ceiling = Lay - in Ceiling Jile
			Walls = Corkboard + Drywood (
			Flores = Canpet
Released By:	Date / Time: Bks 12013 160	Received By:	C 8/21/13 Date/Time: 4:10Pm,
Released By:	C Date / Time:	Received By:	Date / Time:

Steve Moody Micro Services, LLC - 2051 Valley View Ln. - Farmers Branch, TX 75234 - Phone (972) 241-8460 / Fax (972) 241-8461 Q-00134-2013

# **IAQ Mold Report**

Steve Moody Micro Services, LLC

2051 Valley View Lane

Project # :

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

Client : Southwest Geoscience - Dallas, TX

**Project :** Timber Creek ES, Rooms 303 and 304

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

Lab Job No. 13F-09432

**Report Date** 08/27/2013 9:06 AM

Spore Trap Type: Zefon - Air-O-Cell

0113H211 Sample Date : 08/23/2013

Sample Type: Spore Trap, Non-cultured

Page 1 of 3

On 8/23/2013, 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, Northeast	Agaricus / Agrocybe Ascospores Aspergillus / Penicillium Basidiospores Cercospora / Pseudocercospora Chaetomium Cladosporium Coprinus Drechslera / Bipolaris group Epicoccum Fusarium Hyphal / Spore Fragments Myxomycete / Periconia / Rust / Smut Nigrospora Spegazzinia Stachybotrys Total:	240 1240 600 4920 160 40 4000 80 120 40 120 840 200 160 40 40 12840

DSHS License No.: LAB0117

AIHA EMPAT ID: 102577

Summarv

# IAQ Mold Report Summary

Steve Moody Micro Services, LLC

2051 Valley View Lane

Project # :

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

Client : Southwest Geoscience - Dallas, TX

**Project :** Timber Creek ES, Rooms 303 and 304

Lab Job No. 13F-09432 Report Date 08/27/2013 9:06 AM

0113H211 Sample Date : 08/23/2013

Sample Type: Spore Trap, Non-cultured

Spore Trap Type: Zefon - Air-O-Cell

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

Page 2 of 3

On 8/23/2013, 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.

			spores/cubic meter
75	Exterior, Northwest	Agaricus / Agrocybe Ascospores Aspergillus / Penicillium Basidiospores Cercospora / Pseudocercospora Cladosporium Coprinus Curvularia Drechslera / Bipolaris group Epicoccum Fusarium Hyphal / Spore Fragments Myxomycete / Periconia / Rust / Smut Nigrospora Stachybotrys	160 920 440 5280 80 4840 120 120 80 40 240 920 400 160 40
150	Room 303 * See Analytical Notes report for further details	Total: Ascospores Aspergillus / Penicillium Basidiospores Cladosporium Drechslera / Bipolaris group Hyphal / Spore Fragments Myxomycete / Periconia / Rust / Smut Pithomyces Stachybotrys Total:	13840 80 60 300 160 20 180 100 20 60 980
	150	* See Analytical Notes report for	<ul> <li>Aspergillus / Penicillium Basidiospores Cercospora / Pseudocercospora Cladosporium Coprinus Curvularia Drechslera / Bipolaris group Epicoccum Fusarium Hyphal / Spore Fragments Myxomycete / Periconia / Rust / Smut Nigrospora Stachybotrys</li> <li>Total:</li> <li>150 Room 303 * See Analytical Notes report for further details</li> <li>Ascospores Aspergillus / Penicillium Basidiospores Cladosporium Drechslera / Bipolaris group Hyphal / Spore Fragments Myxomycete / Periconia / Rust / Smut Pithomyces Stachybotrys</li> </ul>

port

DSHS License No.: LAB0117 AIHA EMPAT ID: 102577

AIHA EMPAT ID: 102577

# IAQ Mold Report

Steve Moody Micro Services, LLC

2051 Valley View Lane

Project # :

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

Client : Southwest Geoscience - Dallas, TX

**Project :** Timber Creek ES, Rooms 303 and 304

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

**Report Date** 08/27/2013 9:06 AM

Lab Job No. 13F-09432

0113H211 Sample Date : 08/23/2013

Sample Type: Spore Trap, Non-cultured

ultured Spore Trap Type: Zefon - Air-O-Cell

Page 3 of 3

On 8/23/2013, 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.

* See Analytical Notes report for further detailsAspergillus / Penicillium40Basidiospores240Cladosporium140Curvularia60Drechslera / Bipolaris group20Epicoccum40Hyphal / Spore Fragments80Myxomycete / Periconia / Rust / Smut100Stachybotrys40	Sample Number	Volume (liters)	Sample Description	Identification	Concentration spores/cubic meter
	4		* See Analytical Notes report for	Aspergillus / Penicillium Basidiospores Cladosporium Curvularia Drechslera / Bipolaris group Epicoccum Hyphal / Spore Fragments Myxomycete / Periconia / Rust / Smut Stachybotrys	60 40 240 140 60 20 40 80 100 40 820
Steve Moody Micro Services assumes no responsibility for the manner in which these samples were collected or handled prior to being received at this laboratory.         SMMS assumes no responsibility for the qualifications of personnel performing sampling and/or interpretations of this data.         Analyst(s):       Rob Greene         Lab Director:       Steve Moody         Approved Signatory :       Steve Moody	the results contained he Steve Moody Micro Se SMMS assumes no resp Analyst(s): Rob	rein. Interpre rvices assume oonsibility fo Greene	tation should be made by a qualified professiona es no responsibility for the manner in which thes r the qualifications of personnel performing sam	al. e samples were collected or handled prior to being received a pling and/or interpretations of this data.	t this laboratory.

Summarv

DSHS License No.: LAB0117 AIHA EMPAT ID: 102577

				IAQ	Mol	d Repo	ort					
<i>Steve Moody Micro Serv</i> 2051 Valley View Lane Farmers Branch, TX 75234			41-8460	]	Data I	Detail						AB0117 : 102577
Client : Southwest	Geoscienc	e - Dal	las, TX				La	b Job	No.:13F-	09432		
<b>Project :</b> Timber Cre	ek ES, Ro	ooms 3	03 and 30	4			Re	port D	ate:08/2	7/2013	9:06	AM
<b>Project # :</b> 0113H211			Sample I		)8/23/2	2013		•				
Sample Type: Spore Trap	. Non-cult		L.				Type:	Zefon	- Air-O-C	Cell		
<b>Test Method:</b> Mold: AST			tandard Pr	ofile	~1	·····	-51				Page	1 of 2
This report consists of three section					n and a	n analytical :	notes sect	ion Res	ults may not	he report	e	
Sample ID:		1 secur	n, a data de	an sectio	1, and a	ii anaiyticai	notes seet	3	uns may not	be report	<b>Δ</b>	n in tun.
Location:	Exte	rior, No	ortheast	Exte	-	rthwest		Room 3	03		Room 3	04
Debris Rating:		3	inioaot		3			5			5	
Media Expires On:		Apr 20	14		Apr 20 <sup>-</sup>	14		Apr 20	14		Apr 20	14
Notes Included?:		7.01 20						7.01 20			7.01 20	
Volume:		75			75			150			150	
volumo.	raw ct.	MDL	spores/m <sup>3</sup>	raw ct.	MDL	spores/m <sup>3</sup>	raw ct.	MDL	spores/m <sup>3</sup>	raw ct.	MDL	spores/m <sup>3</sup>
Agaricus / Agrocybe	6	40.00	. 240	4	40.00	160						
Alternaria										3	20.00	60
Ascospores	31	40.00	1240	23	40.00	920	4	20.00	80			
Aspergillus / Penicillium	15	40.00	600	11	40.00	440	3	20.00	60	2	20.00	40
Basidiospores	123	40.00	4920	132	40.00	5280	15	20.00	300	12	20.00	240
Cercospora / Pseudocercospora	4	40.00	160	2	40.00	80						
Chaetomium	1	40.00	40									
Cladosporium	100	40.00	4000	121	40.00	4840	8	20.00	160	7	20.00	140
Coprinus	2	40.00	80	3	40.00	120						
Curvularia				3	40.00	120				3	20.00	60
Drechslera / Bipolaris group	3	40.00	120	2	40.00	80	1	20.00	20	1	20.00	20
Epicoccum	1	40.00	40	1	40.00	40				2	20.00	40
Fusarium	3	40.00	120	6	40.00	240						
Hyphal / Spore Fragments	21	40.00	840	23	40.00	920	9	20.00	180	4	20.00	80
Memnoniella												
Myxomycete / Periconia / Rust / Smut	5	40.00	200	10	40.00	400	5	20.00	100	5	20.00	100
Nigrospora	4	40.00	160	4	40.00	160						
Pithomyces							1	20.00	20			
Spegazzinia	1	40.00	40									
Stachybotrys	1	40.00	40	1	40.00	40	3	20.00	60	2	20.00	40
TOTALS	321		12840	346		13840	49		980	41		820
Analyst	F	Rob Gre	ene	F	lob Gre	ene	F	lob Gre	ene	F	Rob Gre	ene
Analysis Date		8/27/20	13		8/27/20	13		8/27/20	13		8/27/20	13

# TAO Mala D

		IAQ	<b>2 Mold Repo</b>	ort	
Steve Moody	Micro Services, LL	С	Data Detail	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 Geoscien	ce - Dallas, TX		Lab Job No. : 13F-09432	
Project :	Timber Creek ES, H	Rooms 303 and 304		Report Date : 08/27/2013	9:06 AM
Project # :	0113H211	Sample Date :	08/23/2013		
Sample Type:	Spore Trap, Non-cu	tured	Spore Trap	Type: Zefon - Air-O-Cell	
Test Method:	Mold: ASTM D739	1-09 - Standard Profile			Page 2 of 2
This report consist	s of three sections; a sumn	nary section, a data detail section	ion, and an analytical	notes section. Results may not be reported	ed except in full.
Debris Rating Ke 0 - No debris detec 1 - Trace debris. 2 - Light debris. 3 - Moderate debri 4 - Substantial det	is.				

- 5 Extensive debris.
- 6 Field blank.

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

2051 Valley V	<i>Micro Services, LLC</i> iew Lane h, TX 75234 Phone: (972) 241-8460	Analytical Notes	DSHS License AIHA EMP.	No.: LAB0117 AT ID: 102577
Client :	Southwest Geoscience - Dallas, TX		Lab Job No. : 13F-09432	
Project :	Timber Creek ES, Rooms 303 and 304		Report Date : 08/27/2013	9:06 AM
Project # :	0113H211 Sample Date	e: 08/23/2013		
Sample Type:	Spore Trap, Non-cultured	Spore Trap Ty	pe: Zefon - Air-O-Cell	
Test Method:	Mold: ASTM D7391-09 - Standard Profil	le		Page 1 of 1
This report consists	s of three sections; a summary section, a data detail s	ection, and an analytical notes s	section. Results may not be reported	d except in full.
Samples Ana	alyzed			
Sample No:	3 : Room 303			
Notes:	20% Occluded.			
Sample No:	4 : Room 304			
Notes:	25% Occluded.			
Field Blanks	5			
No discernable	e field blanks were submitted with this set	of samples.		
NOTE: All rem	aining samples suitable for analysis.			

## Methods

Method: ASTM D7391-09: Categorization and Quantification of Airborne Fungal Structures in an Inertial Impaction Sample by Optical Microscopy.

Calculation: Spores/cubic meter = (Raw spore count)\*(MDL)

Note: MDL (Minimum Detection Limit) is calculated based upon 1 raw spore count.

Steve Moody Micro Services recommends two significant figures for calculated values based on ASTM D7391-09.

This report must not be used by the customer to claim product certification, approval, or endorsement by AIHA, ISO, or any agency of the Federal Government.



<u>Chain c</u>	<u>y Custouy</u>					Aoc y
Page [	of 1					
	nce for immediate, after-hour, & weel		lity.*	00#		
arnaround of C <u>ASBESTOS</u>	ulture Samples subject to Culture Gro	owth**				
ASBESTOS Bulk	1 day 2 day 3 d Analyze All		Immediate	Air 7402 (Mod	<u>IEM</u> Aethod ☐6 hr dified) ☐1 da icro Vac ☐1 day	y 🗍 2 day 🗍 3
<u>PCM</u> Air (74 <u>TOTAL DU</u>	400)	] 3 day 🗍 5 day ] 2 day	Immediate	Water Analyze B	$\Box 1 da$	y <b>□</b> 2_day <b>□</b> 3
Analyz	re (Tape / Bulk / (ir) 1 da Air Standard Profile ze Blanks 1 Yes 1 r wab / Bulk / Plate) 7-14 da	e Air Expande		HPC + Gram S HPC + 3 Gram HPC + 5 Gram Fecal Coliform	n Neg ID n Neg ID	☐3 day ☐5 ☐6-8 day ☐6-8 day ☐3 day
Billing Corr	ipany / City: _ <u>Swc</u>		I		# of Samples:	4
	Company:				-	8/23/2013
	Name: Clinton 5. 50	ich			Project #:	SIIBHZII
Project:	embricant FS	Room BOR	+ 304		Phone #:	
	formation: Name: Clinton				Mobile #: <b>(9</b>	72)989-103
	-				Fax #:	
E-mail Resu	Its to: Clint / Darca /	Veranica			$\Gamma a \Lambda \pi$ .	
Invoice Add	Its to: <u>Clint/Derrea</u> ress: <u>Veronica</u> perwork and samples before submitting to lab	b. Unsealed / improperty paci	kaged / damaged / expi		P.O. #:	uests may incur additiona
Invoice Add	ress: <u>Veronica</u> perwork and samples before submitting to lab	b. Unsealed / improperly pack	kaged / damaged / expi	ired samples or excess	P.O. #:	
Invoice Add Vease review pap Notes: <u>30</u>	ress: <u>Veronica</u> perwork and samples before submitting to lab	. Unsealed/improperly pack Last Duy iption	kaged / damaged / expi  Vol. / Area	ired samples or excess	P.O. #:	Votes
Invoice Add Vease review pap Notes: <u>30</u>	ress: <u>Veronica</u> perwork and samples before submitting to lab <u>t Ceunia Curpet</u> Dud Sample Descr	D. Unsealed / improperty pack	kaged / damaged / expi – – Vol. / Area if applicable	T = 88.5	P.O. #:	Notes 4 • 7.
Invoice Add Rease review pap Notes: <u>30</u> Sample #	ress: <u>Veronica</u> perwork and samples before submitting to lab the <u>Ceunid Curpet</u> Dud Sample Descr Extensor, Norther	D. Unsealed / improperty pack	kaged / damaged / expi  Vol. / Area if applicable <b>75</b>	T = 88.5	P.O. #: sive administrative req Location / N	Jotes 4 •). 7 7.
Invoice Add Notes: <u>30</u> Sample #	ress: <u>Veronica</u> perwork and samples before submitting to lab <u>t</u> <u>Ceumed</u> <u>Curpet</u> <u>Dud</u> Sample Descr <u>Exterior</u> , <u>Northee</u> <u>Exterior</u> , <u>Northee</u>	D. Unsealed / improperty pack	Vol. / Area if applicable 75 75	T= 88.5 T~ 89.4 T> 74.20	P.O. #: sive administrative req Location / N f = 52.6 f = 52.6	Notes 4 • 7. 7 • 7. 7 • M=8-11
Invoice Add Notes: <u>30</u> Sample #	ress: <u>Veronica</u> perwork and samples before submitting to lab <u>Extensed Curpet Dud</u> Sample Descr <u>Extensor</u> , Norther <u>Extensor</u> , Norther	D. Unsealed / improperty pack	Vol. / Area if applicable 75 75	T= 88.5 T~ 89.4 T> 74.20	P.O. #: sive administrative req Location / N $(f_1 = 52.6)$ $(f_2 = 51.6)$ H = 43.8 = 6 $G_2(G_2) = 10$	Notes 4 • 7. 7 • 7. 7 • M=8-11
Invoice Add Rease review pap Notes: <u>30</u> Sample # 2 3	ress: <u>Veronica</u> perwork and samples before submitting to lab <u>Extensed Curpet Dud</u> Sample Descr <u>Extensor</u> , Norther <u>Extensor</u> , Norther	D. Unsealed / improperty pack	Vol. / Area if applicable 75 75	T= 88.5 T= 89.4 T= 74.60 Ceikings	P.O. #: sive administrative req Location / N (f + - 52.6) (f - 51.6) H 43.8 - 6 G(f - 51.6) H	Notes 4 • ). 7 • 7. 1. M=8-11
Invoice Add Notes: <u>30</u> Sample #	ress: <u>Veronica</u> perwork and samples before submitting to lab <u>Extensed Curpet Dud</u> Sample Descr <u>Extensor</u> , Norther <u>Extensor</u> , Norther	D. Unsealed / improperty pack	Vol. / Area if applicable 75 75	T = 88.5 T = 89.4 T = 74.50 (e; kings Wealts = Di 9)0015 = (a)	P.O. #: sive administrative req Location / N f = 52.6 f =	Notes 4 • ). 7 • 7. 1. M=8-11
Invoice Add Rease review pap Notes: <u>30</u> Sample # 2 3	ress: <u>Veronica</u> perwork and samples before submitting to lab <u>t</u> <u>Ceened</u> <u>Curpet</u> <u>Dud</u> Sample Descr <u>Extensor</u> , <u>Northee</u> <u>tatestor</u> <u>Northee</u> <u>Room</u> 303	D. Unsealed / improperty pack	Vol. / Area if applicable 75 75 160	$T = 88.5$ $T = 88.5$ $T = 89.4$ $T_{2} = 74.5$ $C_{e,i,k:n,4}$ $K_{e,115} = D_{i}$ $J_{00,15} = C_{i}$ $T_{i} = 73.5$	P.O. #: sive administrative req Location / N f = 52.6 f =	Notes 4 -1. 7 -7. 1 - M=8-11 - - - - - - - - - -
Invoice Add Rease review pap Notes: <u>30</u> Sample # 2 3	ress: <u>Veronica</u> perwork and samples before submitting to lab <u>t</u> <u>Ceened</u> <u>Curpet</u> <u>Dud</u> Sample Descr <u>Extensor</u> , <u>Northee</u> <u>tatestor</u> <u>Northee</u> <u>Room</u> 303	D. Unsealed / improperty pack	Vol. / Area if applicable 75 75 160	$T = 88.5$ $T = 88.5$ $T = 89.4$ $T_{2} = 74.5$ $C_{e,i,k:n,4}$ $K_{e,115} = D_{i}$ $J_{00,15} = C_{i}$ $T_{i} = 73.5$	P.O. #: sive administrative req Location / N $\sim$ 17 = 52. H = 51. H = 43.8 $\sim$ Ceritic Tite $\sim$ 11 $\sim$ 14 = 47.6 $\sim$ 11 $\sim$ 11 $\sim$ 11 $\sim$ 12 $\sim$ 11 $\sim$ 12 $\sim$ 11 $\sim$ 12 $\sim$ 11 $\sim$ 12 $\sim$ 11 $\sim$ 12 $\sim$ 11 $\sim$ 12 $\sim$ 12	Jotes 4 -1. 7 -1. 7 - 1. - M=8-11 - - - - - - - - - -
Invoice Add Rease review pap Notes: <u>30</u> Sample # 2 3	ress: <u>Veronica</u> perwork and samples before submitting to lab <u>t</u> <u>Ceened</u> <u>Curpet</u> <u>Dud</u> Sample Descr <u>Extensor</u> , <u>Northee</u> <u>tatestor</u> <u>Northee</u> <u>Room</u> 303	D. Unsealed / improperly pack	Vol. / Area if applicable 75 75 160	$T = 88.5$ $T = 89.4$ $T_{2} 74.00$ $Ce; hing = 0$ $y 00:5 = Ce$ $T = 73.5$	P.O. #: sive administrative req Location / N f = 52.4 H = 52.4 H = 43.8 H = 43.8	Notes 4 -1. 7 -7. 1 - M=8-11 - - - - - - - - - -
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Invoice Add Notes: <u>30</u> Sample # 1 2 3 4	ress: <u>Veronica</u> perwork and samples before submitting to lab <u>t</u> <u>Ceened</u> <u>Curpet</u> <u>Dud</u> Sample Descr <u>Extensor</u> , <u>Northee</u> <u>tatestor</u> <u>Northee</u> <u>Room</u> 303	b. Unsealed / improperty pack LASST Dry iption 	kaged / damaged / expi	T = 88.5 T = 89.4 T = 74.50 $C_{ei}$ kings $Ments = Di 9)0015 = Ca T = 73.5 C_{ei} kingsC_{ei} kingsT = 73.5$	P.O. #: sive administrative req Location / N f = 52.4 H = 52.4 H = 43.8 H = 43.8	Notes 4 -1. 7 -7. 7 - M=8-11 
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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 10<sup>th</sup> 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.