

DATE: October 25, 2016

TO: Trish Cuckler, Principal

SUBJECT: Hedrick ES - IAQ - Air Test Results - Nurses' Office

On Friday 10/21, Apex-Titan Air tested the Nurses' office. It is typically assumed that indoor spore levels in an area with filtered or air conditioned air, and activity levels associated with schools average below the outdoor levels. Data from the airborne fungi sampling indicated that the total indoor concentration of mold/fungi in the Nurses' office, was **5.3**% of the outdoor levels. Utilizing this theory, the indoor concentrations are well 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



DATE: October 27, 2016

TO: Trish Cuckler, Principal

SUBJECT: Hedrick ES - IAQ - Tape Lift results - Nurses' Office

On Friday, 10/21, Apex TITAN did a tape lift in the Nurses' office:

Apex collected one (1) tape lift sample from the top of the filing cabinet within the nurse's office. The microbial samples were analyzed by Steve Moody Micro Services, LLC (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.

Tape lift samples collected from the top of the filing cabinet reported Basidiospores and Hyphal/Spore Fragments each with a prevalence level of 1 (trace mold).

Debris Rating Key

- 0 No linear trace detected
- 1 Trace particulate/debris
- 2 Light particulate/debris
- 3 Moderate particulate/debris.
- 4 Substantial particulate/debris
- 5 Extensive particulate/debris
- 6 Field blank
- 10 Hold Sample
- 11 Modified Analysis per Client Instructions

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

Suspect Mold

No visible mold was observed during the assessment. No odors or excessive dust were noted. **Conclusions and Recommendations**

Based on Apex's limited assessment and the analytical results collected, it appears that the indoor air quality, as it relates to airborne fungi was within recommended guidelines on the day of the assessment.

If you have any questions, please contact me. Thanks, Paul

Paul Siddall Maintenance Energy Auditor (IAQ) Facility Services Lewisville ISD 340 Lake Haven Rd Lewisville, TX 7505



October 25, 2016

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

Re: Limited Mold Assessment Services Hedrick Elementary School Nurse's Office 1532 Bellaire Boulevard Lewisville, Texas LISD PO No. 91707872-00 Apex Project No. 725010727035

Introduction

Apex TITAN, Inc., a subsidiary of Apex Companies, LLC (APEX) conducted limited mold assessment activities for the Lewisville Independent School District (Lewisville I.S.D.) within Hedrick Elementary School located at 1532 Bellaire Boulevard 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 (Lic. No. MAT1075) on October 21, 2016 Apex'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 the nurse's office. Apex'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 Apex's mold assessment or this report at this time.

Scope of Work

As set forth in Apex's Mold Assessment Proposal (No. P725010727040) dated October 20, 2016. Apex's scope-of-work was to provide visual and/or analytical mold assessment and related services in the Investigation Areas which included:

Visual Reconnaissance: Apex 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. Apex's visual reconnaissance only included readily accessible or visible portions of the Investigation Areas.

Suspect Mold Growth Sampling and Analysis: Apex 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

Apex' Mold Assessment Site reconnaissance was performed on October 21, 2016 by Mr. Clinton S. Jech. Apex's visual reconnaissance of the Investigation areas revealed the following:

Temperature and Relative Humidity

Temperature readings collected inside the room was reported as 74.1degrees Fahrenheit while relative humidity was reported as 37.2 percent. Temperature readings collected outside the building ranged from 60.8 to 63.5 degrees Fahrenheit while outside relative humidity ranged from 43.6 to 49.9 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/workplace 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					

Apex 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 ranged from 6 to 8% which is considered normal by the manufacturer.



Air Monitoring Results

Apex collected one (1) sample from the interior of the investigation area and two (2) samples from the exterior of the building. The microbial samples were analyzed by Steve Moody Micro Services, LLC (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 indicated that total airborne mold spores in the classroom was lower as compared to those measured outside of the building at the time the sampling was performed. The total fungal spore concentration within the investigation area was reported as 228 counts/m³, while the exterior level ranged from 3,869 to 4,285 counts/m³.

Four (4) 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 the nurse's office reported Aspergillus/Pencillium as 73 counts/m³, Scopulariopsis as 27 counts/m³, Curvularia as 13 counts/m³ and Coprinus group as 7 counts/m³ while no exterior levels were 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).

Tape Lift Results

Apex collected one (1) tape lift sample from the top of the filing cabinet within the nurse's office. The microbial samples were analyzed by Steve Moody Micro Services, LLC (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.

Two (2) types of mold were identified within the investigation area collected from the exterior of the building. Tape lift samples collected from the top of the filing cabinet reported Basidiospores and Hyphal/Spore Fragments each with a prevalence level of 1 (trace mold).

Suspect Mold

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

Conclusions and Recommendations

Based on Apex's limited assessment and the analytical results collected, it appears that the indoor air quality, as it relates to airborne fungi was within recommended guidelines on the day of the assessment.



If you have any questions regarding this report or if we can assist you with any other matter, please contact the undersigned at (469) 365-1140.

Sincerely, **Apex TITAN, Inc.**

Clinton S. Jech Manager, Field Services Texas Mold Assessment Technician Lic. No. MAT1075

Darren G. Bowden Senior Program Manager Texas Mold Assessment Consultant Lic. No. MAC0321

Attachments: Analytical Results/Chain of Custody, Mold Services Definitions & Limitations



ATTACHMENT 1

Analytical Results/Chain of Custody



Moody	Labs
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Summary

DSHS License No.: LAB0117 AIHA EMPAT ID: 102577

2051 Valley View Lane

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

Client : Apex Titan, Inc. - Dallas

Project : Hedrick Elementary School, Nurse's Office

Project # : 725010727035

Sample Type: Spore Trap, Non-cultured

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

Lab Job No. : 16F-13413 Report Date : 10/24/2016 4:10 PM Sample Date : 10/21/2016

Spore Trap Type: Zefon - Air-O-Cell

Page 1 of 2

On 10/21/2016, three (3) samples were submitted by Clint Jech of Apex Titan, Inc. - Dallas (located at 12100 Ford. Rd., Suite 401, Farmers Branch, TX 75234) 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			ntration ibic meter
1	150	Exterior, Northwest * See Analytical Notes report for further details	Cladosporium Basidiospores Ascospores Torula Hyphal / Spore Fragments Myxomycete / Rust / Smut Alternaria Nigrospora Cercospora Pithomyces		2040 1750 374 33 27 27 13 7 7 7	48% 41% 9% <1% <1% <1% <1% <1% <1%
2	150	Exterior, Northeast * See Analytical Notes report for further details	Cladosporium Basidiospores Ascospores Cercospora Myxomycete / Rust / Smut Hyphal / Spore Fragments Ganoderma Pithomyces Drechslera / Bipolaris group	Total:	4285 1982 1373 354 53 47 33 13 7 7	100% 51% 35% 9% 1% 1% <1% <1% <1% <1%
				Total:		100%

Moody Labs

Summary

DSHS License No.: LAB0117 AIHA EMPAT ID: 102577

2051 Valley View Lane

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

Client : Apex Titan, Inc. - Dallas

Project : Hedrick Elementary School, Nurse's Office

Project # : 725010727035

Sample Type: Spore Trap, Non-cultured

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

Lab Job No.: 16F-13413 **Report Date :** 10/24/2016 4:10 PM Sample Date : 10/21/2016

Spore Trap Type: Zefon - Air-O-Cell

Page 2 of 2

On 10/21/2016, three (3) samples were submitted by Clint Jech of Apex Titan, Inc. - Dallas (located at 12100 Ford. Rd., Suite 401, Farmers Branch, TX 75234) 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	
3	150	Nurse's Office	Aspergillus / Penicillium	73	32%	
	100		Cladosporium	40	18%	
			Scopulariopsis	27	12%	
			Basidiospores	27	12%	
			Hyphal / Spore Fragments	13	6%	
			Curvularia	13	6%	
			Ganoderma	7	3%	
			Coprinus group	7	3%	
			Cercospora	7	3%	
			Ascospores	7	3%	
			Alternaria	7	3%	
			Tota	ıl: 228	100%	
		I. Data contained in this test report relates only to the n should be made by a qualified professional.	e samples tested. This report does not express or imply interp	pretation of		
		or the manner in which these samples were collected ations of personnel performing sampling and/or inte	or handled prior to being received at this laboratory. Moody pretations of this data.	Labs		
Analyst(s): Musl	htaq Khan			p.		
Lab Manager : He	eather Loj	pez	Approved Signatory : Approved Signatory : g Moody Labs	ACR		
Lab Director : Bru	uce Crabb)	Approved Signatory :	Ø.		
		Thank you for choosin	g Moody Labs - Line Cre	s	MLMS v11.88	

	Moody Labs	5
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Data Detail

2051 Valley View Lane

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

Client : Apex Titan, Inc. - Dallas

Project : Hedrick Elementary School, Nurse's Office

Project # : 725010727035

Sample Type: Spore Trap, Non-cultured

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

DSHS License No.: LAB0117 AIHA EMPAT ID: 102577

Lab Job No. : 16F-13413 Report Date : 10/24/2016 4:10 PM Sample Date : 10/21/2016

Spore Trap Type: Zefon - Air-O-Cell

This report consists of three sections; a summary section, a data detail section, and an analytical notes section. Results may not be reported except in full.

Sample ID:			1		2			3				
Location:	E	Exterior, Northwest			Exterior, Northeast			Nurse's Office				
Media Expires On:												
Notes Included:	See Analytical Notes			S	ee Ana	lytical Notes	6					
Volume:			150				150				150	
	raw ct.	MDL	spores/m ³		raw ct.	MDL	spores/m ³		raw ct.	MDL	spores/m ³	
Alternaria	2	6.67	13	<1%					1	6.67	7	3%
Ascospores	56	6.67	374	9%	53	6.67	354	9%	1	6.67	7	3%
Aspergillus / Penicillium									11	6.67	73	32%
Basidiospores	105	16.67	1750	41%	103	13.33	1373	35%	4	6.67	27	12%
Cercospora	1	6.67	7	<1%	8	6.67	53	1%	1	6.67	7	3%
Chaetomium												
Cladosporium	102	20.00	2040	48%	109	18.18	1982	51%	6	6.67	40	18%
Coprinus group									1	6.67	7	3%
Curvularia									2	6.67	13	6%
Drechslera / Bipolaris group					1	6.67	7	<1%				
Ganoderma					2	6.67	13	<1%	1	6.67	7	3%
Hyphal / Spore Fragments	4	6.67	27	<1%	5	6.67	33	<1%	2	6.67	13	6%
Memnoniella												
Myxomycete / Rust / Smut	4	6.67	27	<1%	7	6.67	47	1%				
Nigrospora	1	6.67	7	<1%								
Pithomyces	1	6.67	7	<1%	1	6.67	7	<1%				
Scopulariopsis									4	6.67	27	12%
Stachybotrys												
Torula	5	6.67	33	<1%								
TOTALS	281		4285	100%	289		3869	100%	34		228	100%
Analyst		Mush	taq Khan		Mushtaq Khan		Mushtaq Khan					
Analysis Date		10/2	24/2016		10/24/2016			10/24/2016				
Debris Rating		3		3				3				
Debris Composition												
Fibers	1/5			1/5		1/5						
Inorganic/Other			2/5		2/5			2/5				
Insect Parts			1/5		1/5			0/5				
Pollen			1/5				1/5				0/5	
Skin/Dander			0/5				1/5				2/5	

End of Data Detail section 16F-13413

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Moody La	IAQ N	Aold Report
	Anal	lytical Notes DSHS License No.: LAB011
2051 Valley Vi	ew Lane	AIHA EMPAT ID: 10257
Farmers Branch	n, TX 75234 Phone: (972) 241-8460	
Client :	Apex Titan, Inc Dallas	Lab Job No.: 16F-13413
,	Hedrick Elementary School, Nurse's Office	Report Date : 10/24/2016 4:10 PM
0	725010727035	Sample Date : 10/21/2016
	Spore Trap, Non-cultured	Spore Trap Type: Zefon - Air-O-Cell
	Mold: ASTM D7391-09 - Standard Profile	Page 1 of 3 and an analytical notes section. Results may not be reported except in full
_	· · · · · · · · · · · · · · · · · · ·	
Samples Ana	-	
Sample No:	1 : Exterior, Northwest	
Notes:	Please note: the minimum detection limit for results to other samples, use calculated result	Basidiospores is 17 spores / cubic meter. When comparing
		Cladosporium is 20 spores / cubic meter. When comparing
	results to other samples, use calculated result	is, not raw numbers.
Sample No:	2 : Exterior, Northeast	
Notes:		Basidiospores is 13 spores / cubic meter. When comparing
	results to other samples, use calculated result Please note: the minimum detection limit for	ts, not raw numbers. Cladosporium is 18 spores / cubic meter. When comparing
	results to other samples, use calculated result	
Field Blanks		
No discernable	e field blanks were submitted with this set of sam	
		1
NOTE: All rem	aining samples suitable for analysis.	
	ming samples suitable for analysis.	

Moodulaha	d Report
Moody Labs Analytica	al Notes DSHS License No.: LAB011
2051 Valley View Lane	AIHA EMPAT ID: 10257
Farmers Branch, TX 75234 Phone: (972) 241-8460	
Client : Apex Titan, Inc Dallas	Lab Job No.: 16F-13413
Project : Hedrick Elementary School, Nurse's Office	Report Date : 10/24/2016 4:10 PM
Project # : 725010727035	Sample Date : 10/21/2016
Sample Type:Spore Trap, Non-culturedSpore Spore Sp	pore Trap Type: Zefon - Air-O-Cell
Test Method: Mold: ASTM D7391-09 - Standard Profile	Page 2 of 3
This report consists of three sections; a summary section, a data detail section, and an	analytical notes section. Results may not be reported except in full.
Methods	
otherwise as noted. Use final spore concentrations, not raw spore co Calculation: Spores/cubic meter = (Raw spore count)*(MDL) Note: MDL (Minimum Detection Limit) is calculated based upon Moody Labs recommends two significant figures for calculated val	1 raw spore count.
This report must not be used by the customer to claim product certif any agency of the Federal Government.	ication, approval, or endorsement by AIHA, ISO, or
Debris Rating Key	
0 - No linear trace detected	
1 - Trace particulate/debris	
2 - Light particulate/debris	
3 - Moderate particulate/debris.	
3 - Moderate particulate/debris.4 - Substantial particulate/debris	
3 - Moderate particulate/debris.4 - Substantial particulate/debris5 - Extensive particulate/debris	
 3 - Moderate particulate/debris. 4 - Substantial particulate/debris 5 - Extensive particulate/debris 6 - Field blank 	
3 - Moderate particulate/debris.4 - Substantial particulate/debris5 - Extensive particulate/debris	
 3 - Moderate particulate/debris. 4 - Substantial particulate/debris 5 - Extensive particulate/debris 6 - Field blank 10 - Hold Sample 11 - Modified Analysis per Client Instructions 	nsect parts, fungal and/or other non-fungal particles.
 3 - Moderate particulate/debris. 4 - Substantial particulate/debris 5 - Extensive particulate/debris 6 - Field blank 10 - Hold Sample 	nsect parts, fungal and/or other non-fungal particles.
 3 - Moderate particulate/debris. 4 - Substantial particulate/debris 5 - Extensive particulate/debris 6 - Field blank 10 - Hold Sample 11 - Modified Analysis per Client Instructions 	nsect parts, fungal and/or other non-fungal particles.
 3 - Moderate particulate/debris. 4 - Substantial particulate/debris 5 - Extensive particulate/debris 6 - Field blank 10 - Hold Sample 11 - Modified Analysis per Client Instructions 	nsect parts, fungal and/or other non-fungal particles.
 3 - Moderate particulate/debris. 4 - Substantial particulate/debris 5 - Extensive particulate/debris 6 - Field blank 10 - Hold Sample 11 - Modified Analysis per Client Instructions 	nsect parts, fungal and/or other non-fungal particles.

		IAO Mold Donom	
Moody L	abs	IAQ Mold Report	
		Analytical Notes	DSHS License No.: LAB0117
2051 Valley V			AIHA EMPAT ID: 102577
Farmers Branc	h, TX 75234 Phone: (972) 24	1-8460	
Client :	Apex Titan, Inc Dallas	I	ab Job No.: 16F-13413
Project :	Hedrick Elementary School,	Nurse's Office	Report Date: 10/24/2016 4:10 PM
Project # :	725010727035	S	ample Date : 10/21/2016
Sample Type:	Spore Trap, Non-cultured	Spore Trap Typ	e: Zefon - Air-O-Cell
Test Method:	Mold: ASTM D7391-09 - Sta	ndard Profile	Page 3 of 3
This report consist	s of three sections; a summary section,	, a data detail section, and an analytical notes se	ction. Results may not be reported except in full.
		AIHA LAP, LLC ACCREDITED LABORATORY ENVIRONMENTAL MICROBIOLOGY ISO/IEC 17025:2005 WWW.AIHAACCREDITEDLABS.ORG LAB # 102577	
Statewide Historica	HUNDERUTHIZED BUSINESS Program	TEXAS Department of State Health Services License # LAB0117	Certified WBEN Women's Business Enterprise

SMLMS v11.88

Moody Labs

IAQ Mold Report

Summary

DSHS License No.: LAB0117 AIHA EMPAT ID: 102577

2051 Valley View Lane

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

Client : Apex Titan, Inc. - Dallas

Project : Hedrick Elementary School, Nurse's Office

Project # : 725010727035

Sample Type: Solid Surface - Swab, Tape Lift, Bulk

Test Method: Mold: Qualitative Direct Examination (with stain)

Lab Job No. : 16F-13412 Report Date : 10/24/2016 2:55 PM Sample Date : 10/21/2016

Page 1 of 1

On 10/21/2016, one (1) samples was submitted by Clint Jech of Apex Titan, Inc. - Dallas (located at 12100 Ford. Rd., Suite 401, Farmers Branch, TX 75234) for Solid Surface - Swab, Tape Lift, Bulk mold analysis. This report consists of three sections; a summary section, a data detail section, and an analytical notes section.

Sample Number	Sample Description	Identification	Prevalence
TLS-1	Top of File Cabinet	Basidiospores Hyphal / Spore Fragments	1 1
	ted except in full. Data contained in this test report relates onl ein. Interpretation should be made by a qualified professional.	y to the samples tested. This report does not express or imply interpretation	n of
	responsibility for the manner in which these samples were col y for the qualifications of personnel performing sampling and/	· · · · · · · · · · · · · · · · · · ·	
	ishtaq Khan	Approved Signatory : Approved Signatory : Doosing Moody Labs	in
Lab Manager : H		Approved Signatory :	
Lab Director : B		Approved Signatory :	
	Thank you for en		SMLMS v11.88

Moody Labs		IAQ	Mold R	Report				
moouy Labs		I	Data Deta	nil		DSHS Licens	e No · I AB	20117
2051 Valley View Lane							PAT ID: 10	
Farmers Branch, TX 75234	Phone: $(072) 241_{-8}$	460					1 AT ID. 10	12311
	· /	400						
Client : Apex Titan, I	nc Dallas			I	Lab Job No.	: 16F-13412	2	
Project : Hedrick Elem	entary School, Nu	rse's Office		I	Report Date	: 10/24/201	6 2:55 P	Μ
Project # : 72501072703	5			5	Sample Date	: 10/21/201	6	
Sample Type: Solid Surface	- Swab. Tape Lift.	Bulk			-			
Test Method: Mold: Qualita	-		ain)					
						. 1	. 1	C 11
This report consists of three sections	; a summary section, a c		i, and an anal	lytical notes s	ection. Results n	hay not be report	ted except in	Tull.
Sample ID:		TLS-1						
Location:	Гор	of File Cabinet						
Media Expires On:								
Notes Included: Volume:								
volume.	Score MI						1	
Alternaria								-
Aspergillus / Penicillium								
Basidiospores	1							
Chaetomium								
Cladosporium								
Curvularia								
Drechslera / Bipolaris group								
Hyphal / Spore Fragments	1							
Memnoniella								
Myxomycete / Rust / Smut								
Stachybotrys								
Analyst		Mushtaq Khan						
Analysis Date	1	10/24/2016						
Debris Rating		1						
Debris Composition		0/5						
Fibers		0/5						
Inorganic/Other		1/5						
Insect Parts		0/5						
Pollen		0/5						

0/5

Prevalence Score Key:

1 - Trace mold

Skin/Dander

2 - Light mold

3 - Moderate mold

4 - Substantial mold

5 - Extensive mold

End of Data Detail section 16F-13412

SMLMS v11.88

Analytical Notes

DSHS License No.: LAB0117 AIHA EMPAT ID: 102577

2051 Valley View Lane Farmers Branch, TX 75234 Phone: (972) 241-8460

Moody Labs

Client : Apex Titan, Inc. - Dallas

Project : Hedrick Elementary School, Nurse's Office

Project # : 725010727035

Sample Type: Solid Surface - Swab, Tape Lift, Bulk

Test Method: Mold: Qualitative Direct Examination (with stain)

Lab Job No. : 16F-13412 Report Date : 10/24/2016 2:55 PM Sample Date : 10/21/2016

Page 1 of 2

This report consists of three sections; a summary section, a data detail section, and an analytical notes section. Results may not be reported except in full.

NOTE: No abnormalities or exceptions noted during analysis. All samples suitable for analysis.

NOTE: No discernable field blanks were included with this sample set.

Methods

Methods are based upon accepted industry standards.

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.

Debris Rating Key

- 0 No linear trace detected
- 1 Trace particulate/debris
- 2 Light particulate/debris
- 3 Moderate particulate/debris.
- 4 Substantial particulate/debris
- 5 Extensive particulate/debris
- 6 Field blank
- 10 Hold Sample
- 11 Modified Analysis per Client Instructions

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

Moody L	IAQ Mold Report	· ,
Mobug	Analytical Notes	DSHS License No.: LAB0117
2051 Valley V	'iew Lane	AIHA EMPAT ID: 102577
Farmers Brand	ch, TX 75234 Phone: (972) 241-8460	
Client :	Apex Titan, Inc Dallas	Lab Job No.: 16F-13412
Project :	Hedrick Elementary School, Nurse's Office	Report Date : 10/24/2016 2:55 PM
Project # :	725010727035	Sample Date : 10/21/2016
Sample Type	: Solid Surface - Swab, Tape Lift, Bulk	
	Mold: Qualitative Direct Examination (with stain)	Page 2 of 2
This report consis	ts of three sections; a summary section, a data detail section, and an analytical note	s section. Results may not be reported except in full.
	ACCREDITED LABORATOR ENVIRONMENTAL MICROBIOLOGY ISO/IEC 17025:2005 WWW.AIHAACCREDITEDLABS.ORG LAB # 102577	
Statewide Historica	Ally Underutilized Business Program	Certified WBEN Women's Business Enterprise
End of Analytical N	lotes section	
16F-13412		

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ATTACHMENT 2

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 singled-celled naturally occurring biological organisms occurring worldwide. For purposes of this report 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 Apex'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 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, Apex 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). Apex cannot warrant the accuracy of prior or subsequent information/data, reports and services performed by other firms at the Site. Apex assumes no responsibility or liability for errors in information or data provided by or through the client or third party sources. Apex's services are not to be construed as legal or medical interpretation or advice.

Moisture Intrusion Limitation. Apex 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, Apex will report observed areas of apparent moisture intrusion. Apex does not and will not investigate the cause or causes of such observed moisture intrusion. In the event apparent moisture intrusion is observed, Apex 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.

Standard of Care

Apex 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

Apex'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 Apex 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, Apex 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 Apex.

