

DATE: April 21, 2017

TO: Eric Cockerham, Principal

SUBJECT: Stewart's Creek ES-IAQ-Initial Contact - Music Room, Room B-118, Room B-114

On Thursday 4/20, Jason Hughes requested that I meet with you and set up areas to Air Test. I have requested a P.O. to Air Test the Music Room, Room B-118 and Room B-114. Apex-Titan will be Air Testing in the first part of week 4/24-4/28 and we should have the results back by Thursday 4/27. 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 75057

Cell: 469-446-8882



DATE: April 28, 2017

TO: Eric Cockerham, Principal

SUBJECT: Stewart's Creek ES - IAQ - Air Test Results - Music Room, Room B-114 & B-118

On Tuesday 4/25, Apex-Titan Air tested the Music Room, and Rooms B-114, and B-118. 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 Music Room, was **11.4%**, in Room B-114 was **5.8%**, and in Room B-118, was **4.7%** 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
340 Lake Haven Rd
Lewisville, TX 75057



April 28, 2017

Lewisville Independent School District 340 Lake Haven Lewisville, Texas 75057

Attn: Mr. Paul Siddall

Re: Limited Mold Assessment Services

Stewart's Creek Elementary School

Music Room, B-114 & B-118

4431 Augusta The Colony, Texas

LISD PO No. 91732329-00 Apex Project No. 725010727072

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 Stewart's Creek Elementary School located at 4431 Augusta in The Colony, 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 April 25, 2017. 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 music room, B-114 and B-118. 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. P725010727082) dated April 24, 2017. 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's Mold Assessment Site reconnaissance was performed on April 25, 2017 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 rooms ranged from 73.4 to 74.6 degrees Fahrenheit while relative humidity ranged from 38.9 to 44.6 percent. Temperature readings collected outside the building ranged from 78.9 to 79.6 degrees Fahrenheit while outside relative humidity ranged from 47.8 to 53.2 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 rooms B-114 and B-118 ranged from 8-11% which is considered normal by the manufacturer. The music room walls consisted of CMU block.



Air Monitoring Results

Apex collected three (3) samples 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 classrooms were 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 areas ranged from 441 to 1,073 counts/m³, while the exterior level ranged from 5,229 to 9,375 counts/m³.

Music Room

Two 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. Air sample(s) collected within the music room reported Drechslera/Bipolaris Group as 93 counts/m³ while exterior levels were reported as 53 counts/m³ and Curvulaira as 33 counts/m³ while exterior levels were reported as 13 counts/m³.

Room B-114

One type of mold was identified at a higher concentration within the investigation area as compared to the samples collected from the exterior of the building. Air sample(s) collected within the room B-114 reported Pyricularia as 7 counts/m³ while no exterior levels were reported.

Room B-118

One type of mold was identified at a higher concentration within the investigation area as compared to the samples collected from the exterior of the building. Air sample(s) collected within the room B-118 reported Spegazzinia 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).

Suspect Mold

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

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

Sand Fords

Texas Mold Assessment Consultant Lic. No. MAC0321

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



ATTACHMENT 1

Analytical Results/Chain of Custody





Summary

2051 Valley View Lane Farmers Branch, TX 75234 Phone: (972) 241-8460 DSHS License No.: LAB0117 AIHA EMPAT ID: 102577

Client: Apex Titan, Inc. - Dallas

Project: Stewart's Creek ES, Music Room B-114 & B-118

Project #: 725010727072

Sample Type: Spore Trap, Non-cultured

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

Lab Job No.: 17F-04999

Report Date: 04/27/2017 3:39 PM

Sample Date: 04/25/2017

Spore Trap Type: Zefon - Air-O-Cell

Page 1 of 4

On 4/25/2017, five (5) 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 ubic meter
1	150	Exterior, Northwest * See Analytical Notes report for further details	Cladosporium Myxomycete / Rust / Smut Ascospores Hyphal / Spore Fragments - Dematiaceous Basidiospores Alternaria Aspergillus / Penicillium Epicoccum Oidium Torula Drechslera / Bipolaris group Pithomyces Cercospora Curvularia	4920 1374 907 660 627 300 267 100 60 60 53 27 13	52% 15% 10% 7% 7% 3% 3% 1% <1% <1% <1% <1% <1% <1%
			Total:		100%



Summary

DSHS License No.: LAB0117 2051 Valley View Lane AIHA EMPAT ID: 102577

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

Client: Apex Titan, Inc. - Dallas **Lab Job No.:** 17F-04999

Stewart's Creek ES, Music Room B-114 & B-118 **Project: Report Date:** 04/27/2017 3:39 PM

725010727072 Project #: **Sample Date:** 04/25/2017

Sample Type: Spore Trap, Non-cultured Spore Trap Type: Zefon - Air-O-Cell

Test Method: Mold: ASTM D7391-09 - Standard Profile Page 2 of 4

On 4/25/2017, five (5) 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		entration ubic meter
2	150	Exterior, Southwest	Cladosporium	1974	38%
			Myxomycete / Rust / Smut	1214	23%
			Hyphal / Spore Fragments - Dematiaceous	687	13%
			Ascospores	634	12%
			Basidiospores	220	4%
			Alternaria	133	3%
			Aspergillus / Penicillium	127	2%
			Epicoccum	80	2%
			Pithomyces	53	1%
			Torula	40	<1%
			Curvularia	13	<1%
			Nigrospora	13	<1%
			Oidium	13	<1%
			Stachybotrys	7	<1%
			Cercospora	7	<1%
			Tetraploa	7	<1%
			Fusarium	7	<1%
			Tota	al: 5229	100%



Summary

DSHS License No.: LAB0117 2051 Valley View Lane AIHA EMPAT ID: 102577

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

Client: Apex Titan, Inc. - Dallas **Lab Job No.:** 17F-04999

Stewart's Creek ES, Music Room B-114 & B-118 **Project: Report Date:** 04/27/2017 3:39 PM

725010727072 Project #: **Sample Date:** 04/25/2017

Sample Type: Spore Trap, Non-cultured Spore Trap Type: Zefon - Air-O-Cell

Test Method: Mold: ASTM D7391-09 - Standard Profile Page 3 of 4

On 4/25/2017, five (5) 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
3	150	Music Room	Hyphal / Spore Fragments - Dematiaceous		354	33%
			Myxomycete / Rust / Smut		213	20%
			Cladosporium		120	11%
			Aspergillus / Penicillium		100	9%
			Drechslera / Bipolaris group		93	9%
			Ascospores		80	7%
			Alternaria		53	5%
			Curvularia		33	3%
			Pithomyces		13	1%
			Epicoccum		7	<1%
			Basidiospores		7	<1%
				Total:	1073	100%
4	150	B-114	Cladosporium		173	32%
			Hyphal / Spore Fragments - Dematiaceous		153	28%
			Aspergillus / Penicillium		93	17%
			Myxomycete / Rust / Smut		60	11%
			Ascospores		33	6%
			Drechslera / Bipolaris group		13	2%
			Alternaria		13	2%
			Pyricularia		7	1%
				Total:	545	100%



Summary

2051 Valley View Lane

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

Client: Apex Titan, Inc. - Dallas **Lab Job No.:** 17F-04999

Project: Stewart's Creek ES, Music Room B-114 & B-118 **Report Date:** 04/27/2017 3:39 PM

Project #: 725010727072 **Sample Date:** 04/25/2017

Sample Type: Spore Trap, Non-cultured Spore Trap Type: Zefon - Air-O-Cell

Test Method: Mold: ASTM D7391-09 - Standard Profile Page 4 of 4

On 4/25/2017, five (5) 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
5 150		B-118	Ascospores	120	27%
			Myxomycete / Rust / Smut	93	21%
			Aspergillus / Penicillium	87	20%
			Cladosporium	53	12%
			Hyphal / Spore Fragments - Dematiaceous	47	11%
			Drechslera / Bipolaris group	20	5%
			Spegazzinia	7	2%
			Curvularia	7	2%
			Alternaria	7	2%
			Total:	441	100%

Results may not be reported except in full. Data contained in this test report relates only to the samples tested. This report does not express or imply interpretation of

Moody Labs assumes no responsibility for the manner in which these samples were collected or handled prior to being received at this laboratory. Moody Labs assumes no responsibility for the qualifications of personnel performing sampling and/or interpretations of this data.

Analyst(s): Nina Mims

Lab Manager: Heather Lopez

Lab Director: Bruce Crabb

Approved Signatory: Bene Cult Thank you for choosing Moody Labs

SMLMS v12.14

DSHS License No.: LAB0117

AIHA EMPAT ID: 102577



Data Detail

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 Lab Job No.: 17F-04999

Project: Stewart's Creek ES, Music Room B-114 & B-118 Report Date: 04/27/2017 3:39 PM

Project #: 725010727072 **Sample Date:** 04/25/2017

Sample Type: Spore Trap, Non-cultured Spore Trap Type: Zefon - Air-O-Cell

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

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:	Exterior, Northwest				Exterior, Southwest				Music Room				
Media Expires On:	Nov 2017				Nov 2017				Nov 2017				
Notes Included:	S	lytical Notes											
Volume:			150				150				150		
	raw ct.	MDL	spores/m³		raw ct.	MDL	spores/m³		raw ct.	MDL	spores/m³		
Alternaria	45	6.67	300	3%	20	6.67	133	3%	8	6.67	53	5%	
Ascospores	136	6.67	907	10%	95	6.67	634	12%	12	6.67	80	7%	
Aspergillus / Penicillium	40	6.67	267	3%	19	6.67	127	2%	15	6.67	100	9%	
Basidiospores	94	6.67	627	7%	33	6.67	220	4%	1	6.67	7	<1%	
Cercospora	2	6.67	13	<1%	1	6.67	7	<1%					
Chaetomium													
Cladosporium	123	40.00	4920	52%	296	6.67	1974	38%	18	6.67	120	11%	
Curvularia	1	6.67	7	<1%	2	6.67	13	<1%	5	6.67	33	3%	
Drechslera / Bipolaris group	8	6.67	53	<1%					14	6.67	93	9%	
Epicoccum	15	6.67	100	1%	12	6.67	80	2%	1	6.67	7	<1%	
Fusarium					1	6.67	7	<1%					
Hyphal / Spore Fragments - Dematiac	99	6.67	660	7%	103	6.67	687	13%	53	6.67	354	33%	
Hyphal / Spore Fragments - Hyaline													
Memnoniella													
Myxomycete / Rust / Smut	206	6.67	1374	15%	182	6.67	1214	23%	32	6.67	213	20%	
Nigrospora					2	6.67	13	<1%					
Oidium	9	6.67	60	<1%	2	6.67	13	<1%					
Pithomyces	4	6.67	27	<1%	8	6.67	53	1%	2	6.67	13	1%	
Pyricularia													
Spegazzinia													
Stachybotrys					1	6.67	7	<1%					
Tetraploa					1	6.67	7	<1%					
Torula	9	6.67	60	<1%	6	6.67	40	<1%					
TOTALS	791		9375	100%	784		5229	100%	161		1073	100%	
Analyst		Nin	a Mims			Nin	a Mims			Nin	a Mims		
Analysis Date		4/2	7/2017			4/2	27/2017			4/2	7/2017		
Debris Rating			3				3				4		
Debris Composition													
Fibers			1/5		1/5						3/5		
Inorganic/Other			3/5				3/5				3/5		
Insect Parts	0/5			1/5						1/5			
Pollen			1/5		1/5						1/5		
Skin/Dander			0/5				0/5				4/5		



Data Detail

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 Lab Job No.: 17F-04999

Project: Stewart's Creek ES, Music Room B-114 & B-118 Report Date: 04/27/2017 3:39 PM

Project #: 725010727072 **Sample Date:** 04/25/2017

Sample Type: Spore Trap, Non-cultured Spore Trap Type: Zefon - Air-O-Cell

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

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:		4			5		.,	1	 		
Location:	B-114					Е	3-118				
Media Expires On:		No	v 2017			No	v 2017				
Notes Included:											
Volume:			150				150				
	raw ct.	MDL	spores/m³		raw ct.	MDL	spores/m³				
Alternaria	2	6.67	13	2%	1	6.67	7	2%			
Ascospores	5	6.67	33	6%	18	6.67	120	27%			
Aspergillus / Penicillium	14	6.67	93	17%	13	6.67	87	20%			
Basidiospores											
Cercospora											
Chaetomium											
Cladosporium	26	6.67	173	32%	8	6.67	53	12%			
Curvularia					1	6.67	7	2%			
Drechslera / Bipolaris group	2	6.67	13	2%	3	6.67	20	5%			
Epicoccum											
Fusarium											
Hyphal / Spore Fragments - Dematiac	23	6.67	153	28%	7	6.67	47	11%			
Hyphal / Spore Fragments - Hyaline											
Memnoniella											
Myxomycete / Rust / Smut	9	6.67	60	11%	14	6.67	93	21%			
Nigrospora											
Oidium											
Pithomyces											
Pyricularia	1	6.67	7	1%							
Spegazzinia					1	6.67	7	2%			
Stachybotrys											
Tetraploa											
Torula											
TOTALS	82			100%	66			100%			
Analyst			a Mims				a Mims				
Analysis Date		4/2	7/2017			4/2	7/2017				
Debris Rating			4				4				
Debris Composition											
Fibers			1/5		1/5						
Inorganic/Other			2/5		2/5						
Insect Parts			0/5		1/5						
Pollen			1/5				1/5				
Skin/Dander			4/5		4/5						

End of Data Detail section

17F-04999 SMLMS v12.14



Analytical Notes

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 Lab Job No.: 17F-04999

Project: Stewart's Creek ES, Music Room B-114 & B-118 Report Date: 04/27/2017 3:39 PM

Sample Type: Spore Trap, Non-cultured Spore Trap Type: Zefon - Air-O-Cell

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

Samples Analyzed

Sample No 1: Exterior, Northwest

Notes: Please note: the minimum detection limit for Cladosporium is 40 spores / cubic meter. When comparing

results to other samples, use calculated results, not raw numbers.

Field Blanks

No discernable field blanks were submitted with this set of samples.

NOTE: All remaining samples suitable for analysis.

Methods

Method: ASTM D7391-09. A standard spore trap reading consists of a 30% reading for small spores; 100% of the sample is read for medium and large spores. A 100% reading is provided for containment samples, upon request, or otherwise as noted. Use final spore concentrations, not raw spore counts, for interpretation of results.

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

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

Moody Labs 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.

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.



Analytical Notes

2051 Valley View Lane

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

Client: Apex Titan, Inc. - Dallas

Project: Stewart's Creek ES, Music Room B-114 & B-118 Report

Project #: 725010727072

Sample Type: Spore Trap, Non-cultured

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

Lab Job No.: 17F-04999

Report Date: 04/27/2017 3:39 PM

DSHS License No.: LAB0117

AIHA EMPAT ID: 102577

Sample Date: 04/25/2017

Spore Trap Type: Zefon - Air-O-Cell

Page 2 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.



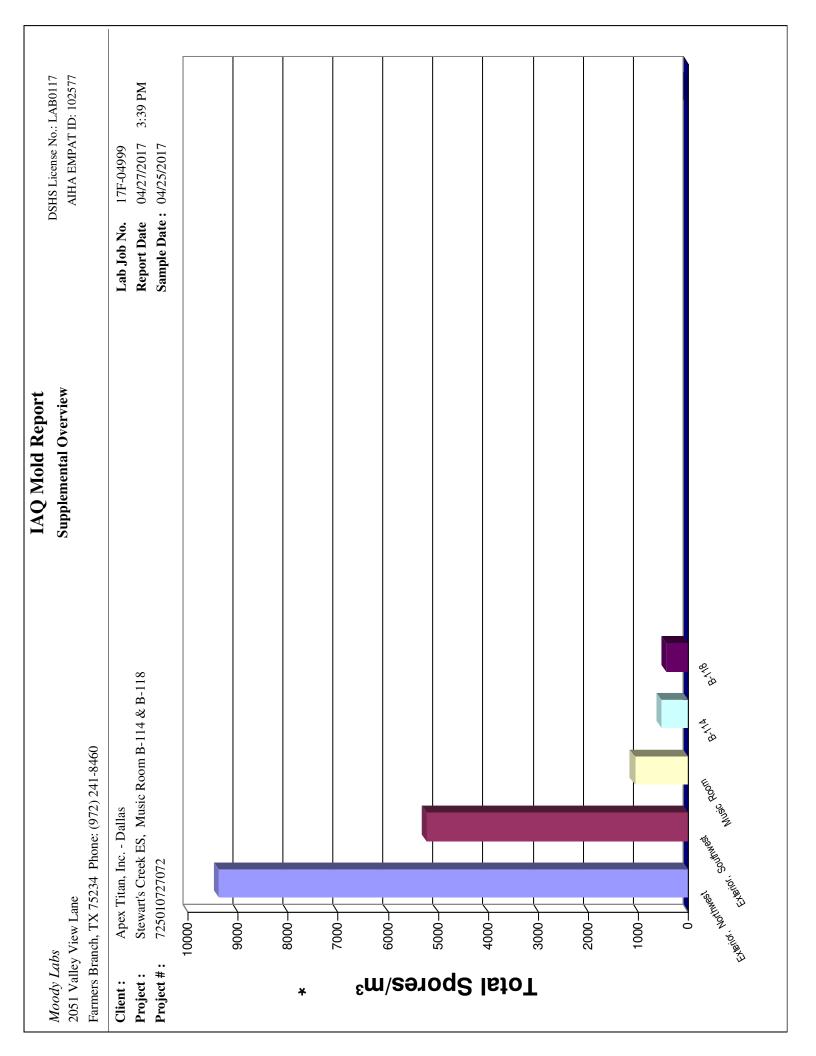
LAB#102577







End of Analytical Notes section 17F-04999





Supplemental Overview

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

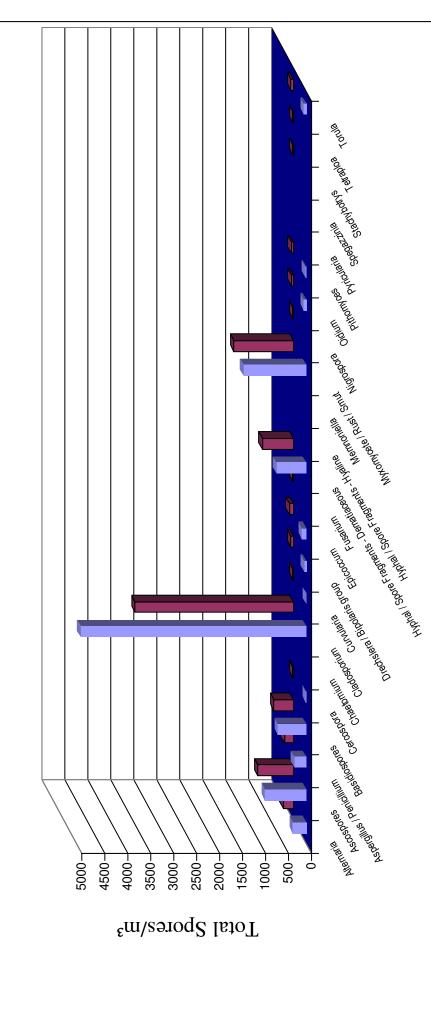
Project:Stewart's Creek ES, Music Room B-114 & B-118Project #:725010727072

Exterior, Northwest

■ Sample ■ Average Reference 1 □ Average Reference 2

Lab Job No. 17F-04999 **Report Date** 04/27/2017 3:39 PM

Sample Date: 04/25/2017



Average Reference 1 = Exterior, Northwest, Exterior, Southwest



Supplemental Overview

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: Stewart's Creek ES, Music Room B-114 & B-118

Project #: 725010727072

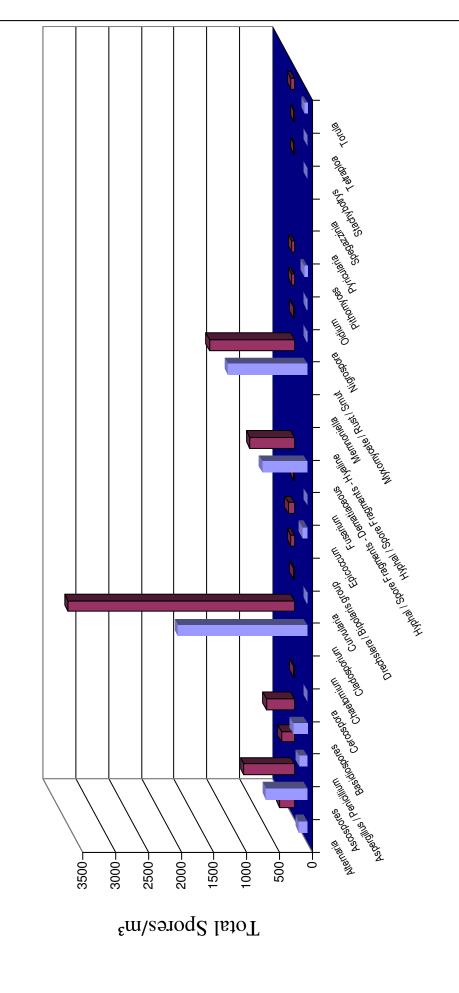
Exterior, Southwest

Lab Job No. 17F-04999 **Report Date** 04/27/2017

port Date 04/27/2017 3:39 PM

Sample Date: 04/25/2017





Average Reference 1 = Exterior, Northwest, Exterior, Southwest



Supplemental Overview

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: Stewart's Creek ES, Music Room B-114 & B-118

Project #: 725010727072

Music Room

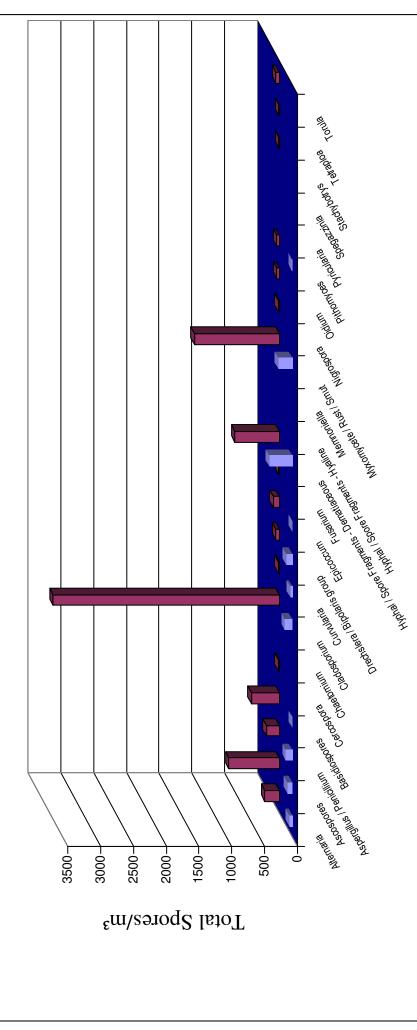
■ Sample ■ Average Reference 1 □ Average Reference 2

Lab Job No. 17F-04999

Report Date 04/27/2017

Report Date 04/27/2017 3:39 PM

Sample Date: 04/25/2017



Average Reference 1 = Exterior, Northwest, Exterior, Southwest



Supplemental Overview

DSHS License No.: LAB0117 AIHA EMPAT ID: 102577

2051 Valley View Lane

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

Apex Titan, Inc. - Dallas Project: Client:

725010727072 Project #:

Stewart's Creek ES, Music Room B-114 & B-118

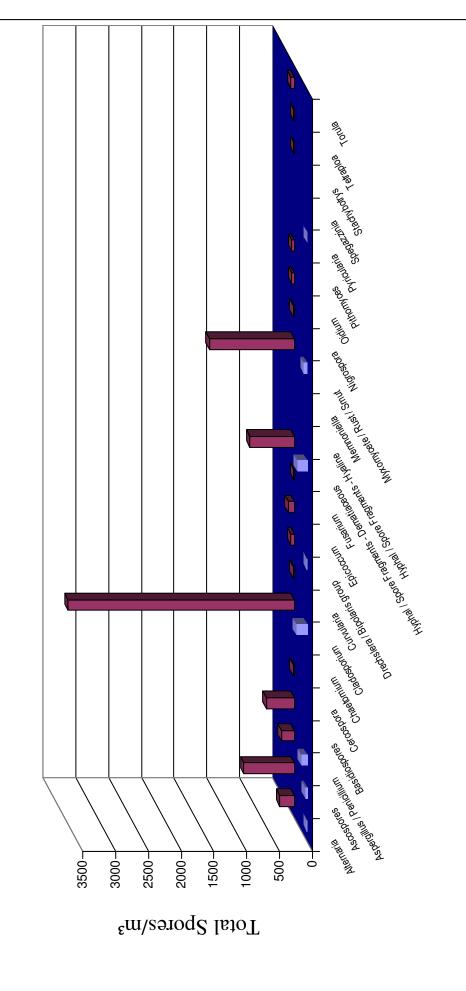
B-114

04/27/2017 17F-04999 Report Date Lab Job No.

3:39 PM

Sample Date: 04/25/2017

■ Sample ■ Average Reference 1 □ Average Reference 2



Average Reference 1 = Exterior, Northwest, Exterior, Southwest



Supplemental Overview

DSHS License No.: LAB0117 AIHA EMPAT ID: 102577

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

Apex Titan, Inc. - Dallas Client:

Project:

725010727072 Project #:

Stewart's Creek ES, Music Room B-114 & B-118

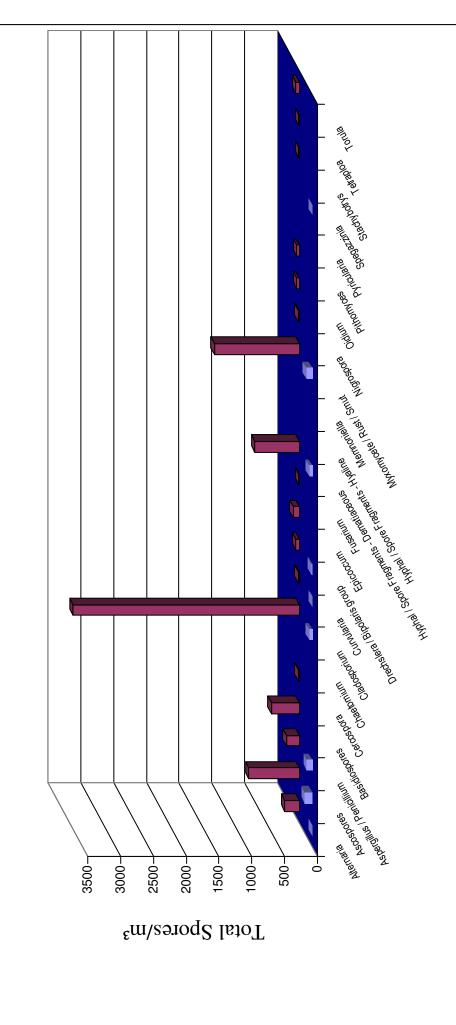
B-118

04/27/2017 17F-04999 Report Date Lab Job No.

3:39 PM

Sample Date: 04/25/2017

■ Sample ■ Average Reference 1 □ Average Reference 2



Average Reference 1 = Exterior, Northwest, Exterior, Southwest

End of Supplemental Overview section

17F-04999

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.

