

DATE: February 14, 2017

TO: Amy Acosta, Principal

SUBJECT: Timber Creek ES - IAQ - Initial Contact - Media Room, Hallway between Principal Office & Library and Library

On Friday 2/10, I received W.O. #403088: "Overwhelming odor of mold and mildew in the area between Principal's office and Library". On Monday 2/13, I inspected that area, along with the Media Room (right off the hallway), and the Library. I found 5 stained ceiling tiles in the Media Room. In the Library entrance, there was one stained ceiling tile. This morning, I met with Steven Jones, from the West Zone Facility Services. They will replace those ceiling tiles. Today, I am submitting a P.O. request to have those areas Air Tested. Air Tests will be done on a day that is above 60 degrees and not raining. We should have the results of the Air Tests by Feb. 20th.

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

DATE: February 22, 2017

TO: Amy Acosta, Principal

SUBJECT: IAQ - Results report - Timber Creek ES - Media Room, Hallway and Library

On Monday 2/20, Apex-Titan Air tested the Media Room, Hallway and Library (W.O. #403088). 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 Media Room, was **71.8%**, in the Hallway, was **42.5%**, and in the Library, was **39.4%** of the outdoor levels. Utilizing this theory, the indoor concentrations are within the acceptable guidelines for areas with filtered air or air conditioning. We have concerns for the Media Room, so I have requested the West Zone Facility Services to put an Air Scrubber in the Media Room, on Friday 2/24, and let it run all weekend. The West Zone Facility Services will pick it up on Monday, 2/27. I am requesting Apex-Titan to retest after Monday 2/27. We should have the results back by the middle of the week. 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

DATE: March 13, 2017

TO: Amy Acosta, Principal

SUBJECT: Timber Creek ES - IAQ - Results report - Media Room

On Thursday 1/21, Apex-Titan Air tested the Media Room. It is typically assumed that indoor spore levels in an area with filtered or air conditioned air, and activity levels associated with schools average below the outdoor levels. Data from the airborne fungi sampling indicated that the total indoor concentration of mold/fungi in the Media Room, was 2.9% 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



March 22, 2017

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

Re: Limited Mold Assessment Services
Timber Creek Elementary School
Media Room, Library and Hallway Between Principal's Office and Library
1900 Timber Creek Road
Flower Mound, Texas
LISD PO No. 91723254-00
Apex Project No. 725010727061

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 Timber Creek Elementary School located at 1900 Timber Creek Road in Flower Mound, Texas, 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 February 16, 2017 and March 7, 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 media room, the library, and the hallway between the principal's office and library. 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. P725010727067) dated February 15, 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' Mold Assessment Site reconnaissance was performed on February 16, 2017 and March 7, 2017 by Mr. Clinton S. Jech. Apex's visual reconnaissance of the Investigation areas revealed the following:

Temperature and Relative Humidity

February 17, 2017

Temperature readings collected inside the investigation areas ranged from 71.9 to 72.8 degrees Fahrenheit while relative humidity ranged from 29.2 to 29.5 percent. Temperature readings collected outside the building ranged from 67.4 to 68.9 degrees Fahrenheit while outside relative humidity ranged from 20.4 to 20.9 percent.

March 7, 2017

Temperature readings collected inside the media room was reported as 71.2 degrees Fahrenheit while relative humidity was reported as 39.4 percent. Temperature readings collected outside the building ranged from 64.9 to 67.4 degrees Fahrenheit while outside relative humidity ranged from 7.1 to 10.4 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/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 of the investigation areas on February 16, 2017 ranged from 6-12% which is considered normal by the manufacturer.

Moisture meter readings taken from the walls within the media room on March 7, 2017 ranged from 8 to 11% which is considered normal by the manufacturer.

Air Monitoring Results

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.

February 16, 2017

Media Room

Air testing performed using spore traps indicated that total airborne mold spores in the room 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 1,108 counts/m³, while the exterior level ranged from 1,529 to 1,542 counts/m³.

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 the room reported *Aspergillus/Penicillium* as 927 counts/m³ while exterior levels were reported as 367 counts/m³. *Drechslera/Bipolaris* group was reported as 7 counts/m³ while no exterior levels were reported.

Library

Air testing performed using spore traps indicated that total airborne mold spores in the room 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 608 counts/m³, while the exterior level ranged from 1,529 to 1,542 counts/m³.

Five (5) 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 room reported *Hyphal/Spore Fragments* as 280 counts/m³ while exterior levels were reported as 160 counts/m³. *Myxomycete/Rust/Smut* was reported as 60 counts/m³ while exterior levels were reported as 27 counts/m³. *Curvularia* was reported as 13 counts/m³, *Epicoccum* was reported as 7 counts/m³ and *Drechslera/Bipolaris* group was reported as 7 counts/m³ while no exterior levels were reported.

Hallway Between Library and Principal's Office

Air testing performed using spore traps indicated that total airborne mold spores in the room 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 656 counts/m³, while the exterior level ranged from 1,529 to 1,542 counts/m³.

Five (5) 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 room reported Hyphal/Spore Fragments as 307 counts/m³ while exterior levels were reported as 160 counts/m³. Chaetomium was reported as 13 counts/m³, Agaricales group was reported as 7 counts/m³, Drechslera/Bipolaris group was reported as 7 counts/m³ and Curvularia was reported as 7 counts/m³ while no exterior levels were reported.

March 7, 2017

Apex returned to the site on March 7, 2017 to retest the media room.

Air testing performed using spore traps indicated that total airborne mold spores in the media room 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 area was reported as 47 counts/m³, while the exterior level ranged from 813 to 1,595 counts/m³.

One (1) 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 Media room reported Aspergillus/Penicillium as 13 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

On March 7, 2017, no odors were noted during the investigation. However, one stained ceiling tile near the entrance of the media room and possible fungal grown on a ceiling tile in the center of the media room was observed. In addition, moderate dust was noted within the media room.

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 within the library and hallway between the library and Principal's office on February 16, 2017 and in the media room on March 7, 2017. Apex recommends that the ceiling tiles within the media room be removed and replaced.

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



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 : Timber Creek ES, Media Rm., Library & Hallway
Project # : 725010727061
Sample Type: Spore Trap, Non-cultured
Test Method: Mold: ASTM D7391-09 - Standard Profile

Lab Job No. : 17F-02212
Report Date : 02/20/2017 2:16 PM
Sample Date: 02/16/2017
Spore Trap Type: Zefon - Air-O-Cell

Page 1 of 3

On 2/16/2017, 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	Concentration spores/cubic meter
1	150	Exterior, West	Cladosporium	727 47%
			Basidiospores	287 19%
			Aspergillus / Penicillium	180 12%
			Hyphal / Spore Fragments	160 10%
			Ascospores	127 8%
			Myxomycete / Rust / Smut	27 2%
			Paecilomyces	20 1%
			Pithomyces	7 <1%
			Alternaria	7 <1%
2	150	Exterior, Southwest	Cladosporium	620 41%
			Aspergillus / Penicillium	367 24%
			Basidiospores	347 23%
			Hyphal / Spore Fragments	80 5%
			Ascospores	40 3%
			Myxomycete / Rust / Smut	27 2%
			Alternaria	27 2%
			Nigrospora	7 <1%
			Cercospora	7 <1%
			Torula	7 <1%
			Total:	1529 100%



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 : Timber Creek ES, Media Rm., Library & Hallway
Project # : 725010727061
Sample Type: Spore Trap, Non-cultured
Test Method: Mold: ASTM D7391-09 - Standard Profile

Lab Job No. : 17F-02212
Report Date : 02/20/2017 2:16 PM
Sample Date: 02/16/2017
Spore Trap Type: Zefon - Air-O-Cell

Page 2 of 3

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Sample Number	Volume (liters)	Sample Description	Identification	Concentration spores/cubic meter
3	150	Media Room	Aspergillus / Penicillium	927 84%
			Hyphal / Spore Fragments	87 8%
			Basidiospores	47 4%
			Cladosporium	20 2%
			Myxomycete / Rust / Smut	13 1%
			Drechslera / Bipolaris group	7 <1%
			Alternaria	7 <1%
			Total:	1108 100%
4	150	Library	Hyphal / Spore Fragments	280 46%
			Basidiospores	93 15%
			Cladosporium	67 11%
			Myxomycete / Rust / Smut	60 10%
			Aspergillus / Penicillium	40 7%
			Alternaria	27 4%
			Curvularia	13 2%
			Nigrospora	7 1%
			Epicoccum	7 1%
			Drechslera / Bipolaris group	7 1%
			Ascospores	7 1%
			Total:	608 100%



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 : Timber Creek ES, Media Rm., Library & Hallway
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Page 3 of 3

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Sample Number	Volume (liters)	Sample Description	Identification	Concentration spores/cubic meter
5	150	Hallway Between Library and Principal's Office	Hyphal / Spore Fragments	307 47%
			Basidiospores	113 17%
			Cladosporium	67 10%
			Aspergillus / Penicillium	67 10%
			Myxomycete / Rust / Smut	27 4%
			Ascospores	27 4%
			Chaetomium	13 2%
			Agaricales group	7 1%
			Nigrospora	7 1%
			Drechslera / Bipolaris group	7 1%
			Curvularia	7 1%
			Alternaria	7 1%

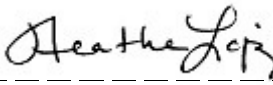
Results may not be reported except in full. Data contained in this test report relates only to the samples tested. This report does not express or imply interpretation of the results contained herein. Interpretation should be made by a qualified professional.


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): Rebecca Lutz

Lab Manager : Heather Lopez

Lab Director : Bruce Crabb

Approved Signatory : 

Approved Signatory : 

Thank you for choosing Moody Labs

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IAQ Mold Report

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
Project : Timber Creek ES, Media Rm., Library & Hallway
Project # : 725010727061
Sample Type: Spore Trap, Non-cultured
Test Method: Mold: ASTM D7391-09 - Standard Profile

Lab Job No. : 17F-02212
Report Date : 02/20/2017 2:16 PM
Sample Date: 02/16/2017
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:	Exterior, West				Exterior, Southwest				Media Room			
Media Expires On:	Nov 2017				Nov 2017				Nov 2017			
Notes Included:												
Volume:	150				150				150			
	raw ct.	MDL	spores/m ³		raw ct.	MDL	spores/m ³		raw ct.	MDL	spores/m ³	
Agaricales group												
Alternaria	1	6.67	7	<1%	4	6.67	27	2%	1	6.67	7	<1%
Ascospores	19	6.67	127	8%	6	6.67	40	3%				
Aspergillus / Penicillium	27	6.67	180	12%	55	6.67	367	24%	139	6.67	927	84%
Basidiospores	43	6.67	287	19%	52	6.67	347	23%	7	6.67	47	4%
Cercospora					1	6.67	7	<1%				
Chaetomium												
Cladosporium	109	6.67	727	47%	93	6.67	620	41%	3	6.67	20	2%
Curvularia												
Drechslera / Bipolaris group									1	6.67	7	<1%
Epicoccum												
Hyphal / Spore Fragments	24	6.67	160	10%	12	6.67	80	5%	13	6.67	87	8%
Memnoniella												
Myxomycete / Rust / Smut	4	6.67	27	2%	4	6.67	27	2%	2	6.67	13	1%
Nigrospora					1	6.67	7	<1%				
Paecilomyces	3	6.67	20	1%								
Pithomyces	1	6.67	7	<1%								
Stachybotrys												
Torula					1	6.67	7	<1%				
TOTALS	231		1542	100%	229		1529	100%	166		1108	100%
Analyst	Rebecca Lutz				Rebecca Lutz				Rebecca Lutz			
Analysis Date	2/20/2017				2/20/2017				2/20/2017			
Debris Rating	3				2				2			
Debris Composition												
Fibers	1/5				1/5				1/5			
Inorganic/Other	3/5				2/5				2/5			
Insect Parts	1/5				0/5				0/5			
Pollen	2/5				2/5				0/5			
Skin/Dander	1/5				1/5				2/5			



IAQ Mold Report

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
Project : Timber Creek ES, Media Rm., Library & Hallway
Project # : 725010727061
Sample Type: Spore Trap, Non-cultured
Test Method: Mold: ASTM D7391-09 - Standard Profile

Lab Job No. : 17F-02212
Report Date : 02/20/2017 2:16 PM
Sample Date: 02/16/2017
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:	4				5								
Location:	Library				Hallway Between Library and Principal's Office								
Media Expires On:	Nov 2017				Nov 2017								
Notes Included:													
Volume:	150				150								
	raw ct.	MDL	spores/m ³		raw ct.	MDL	spores/m ³						
Agaricales group					1	6.67	7	1%					
Alternaria	4	6.67	27	4%	1	6.67	7	1%					
Ascospores	1	6.67	7	1%	4	6.67	27	4%					
Aspergillus / Penicillium	6	6.67	40	7%	10	6.67	67	10%					
Basidiospores	14	6.67	93	15%	17	6.67	113	17%					
Cercospora													
Chaetomium					2	6.67	13	2%					
Cladosporium	10	6.67	67	11%	10	6.67	67	10%					
Curvularia	2	6.67	13	2%	1	6.67	7	1%					
Drechslera / Bipolaris group	1	6.67	7	1%	1	6.67	7	1%					
Epicoccum	1	6.67	7	1%									
Hyphal / Spore Fragments	42	6.67	280	46%	46	6.67	307	47%					
Memnoniella													
Myxomycete / Rust / Smut	9	6.67	60	10%	4	6.67	27	4%					
Nigrospora	1	6.67	7	1%	1	6.67	7	1%					
Paecilomyces													
Pithomyces													
Stachybotrys													
Torula													
TOTALS	91		608	100%	98		656	100%					
Analyst	Rebecca Lutz				Rebecca Lutz								
Analysis Date	2/20/2017				2/20/2017								
Debris Rating	4				4								
Debris Composition													
Fibers	2/5				3/5								
Inorganic/Other	4/5				4/5								
Insect Parts	0/5				0/5								
Pollen	0/5				1/5								
Skin/Dander	3/5				4/5								

End of Data Detail section
17F-02212

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IAQ Mold Report

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-02212

Project : Timber Creek ES, Media Rm., Library & Hallway

Report Date : 02/20/2017 2:16 PM

Project # : 725010727061

Sample Date : 02/16/2017

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.

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

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.



IAQ Mold Report

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-02212

Project : Timber Creek ES, Media Rm., Library & Hallway

Report Date : 02/20/2017 2:16 PM

Project # : 725010727061

Sample Date : 02/16/2017

Sample Type: Spore Trap, Non-cultured

Spore Trap Type: Zefon - Air-O-Cell

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

Page 2 of 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-02212

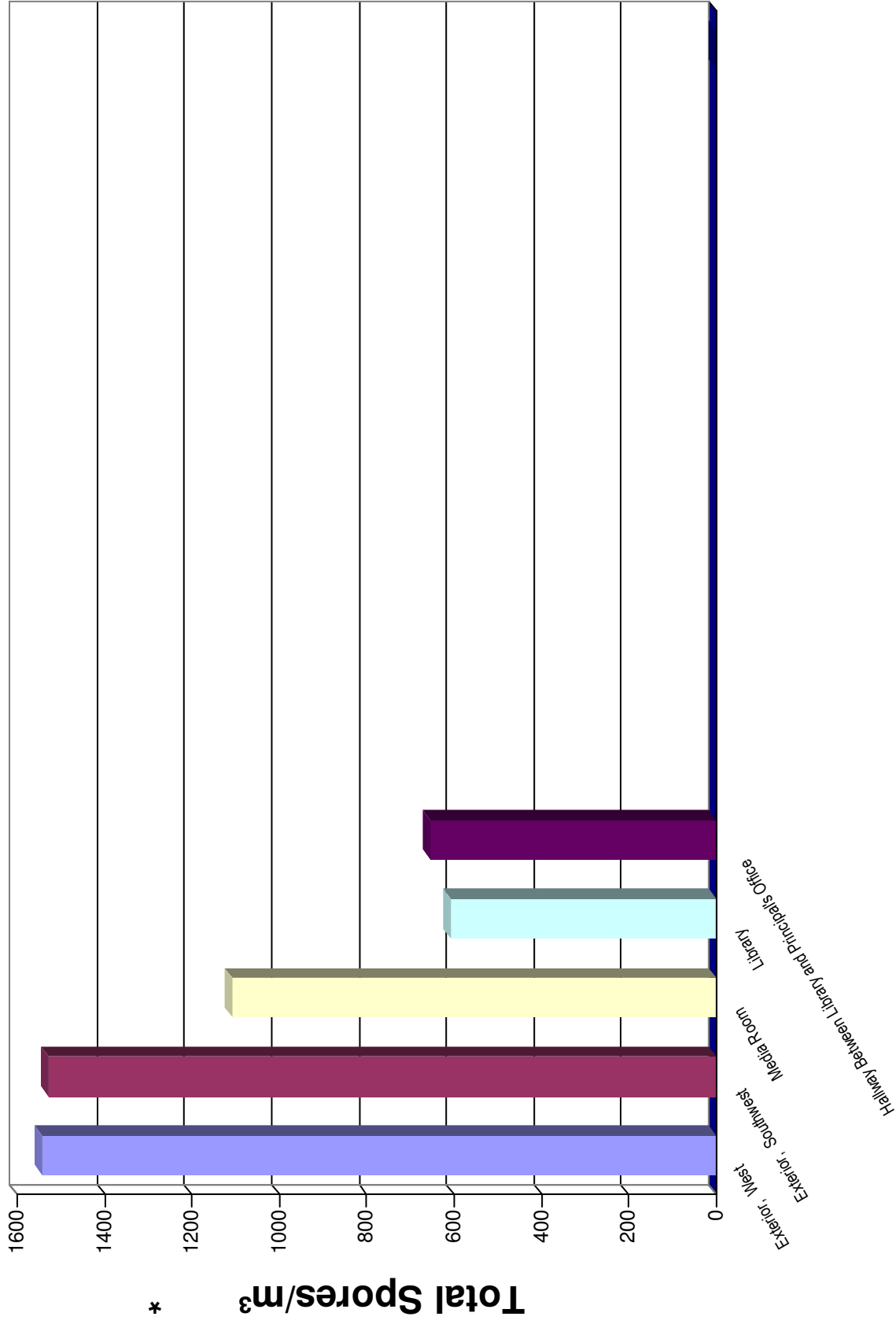
Moody Labs
2051 Valley View Lane
Farmers Branch, TX 75234 Phone: (972) 241-8460

IAQ Mold Report Supplemental Overview

DSHS License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Apex Titan, Inc. - Dallas
Project : Timber Creek ES, Media Rm., Library & Hallway
Project # : 725010727061

Lab Job No. 17F-02212
Report Date 02/20/2017 2:16 PM
Sample Date : 02/16/2017





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

IAQ Mold Report

Supplemental Overview

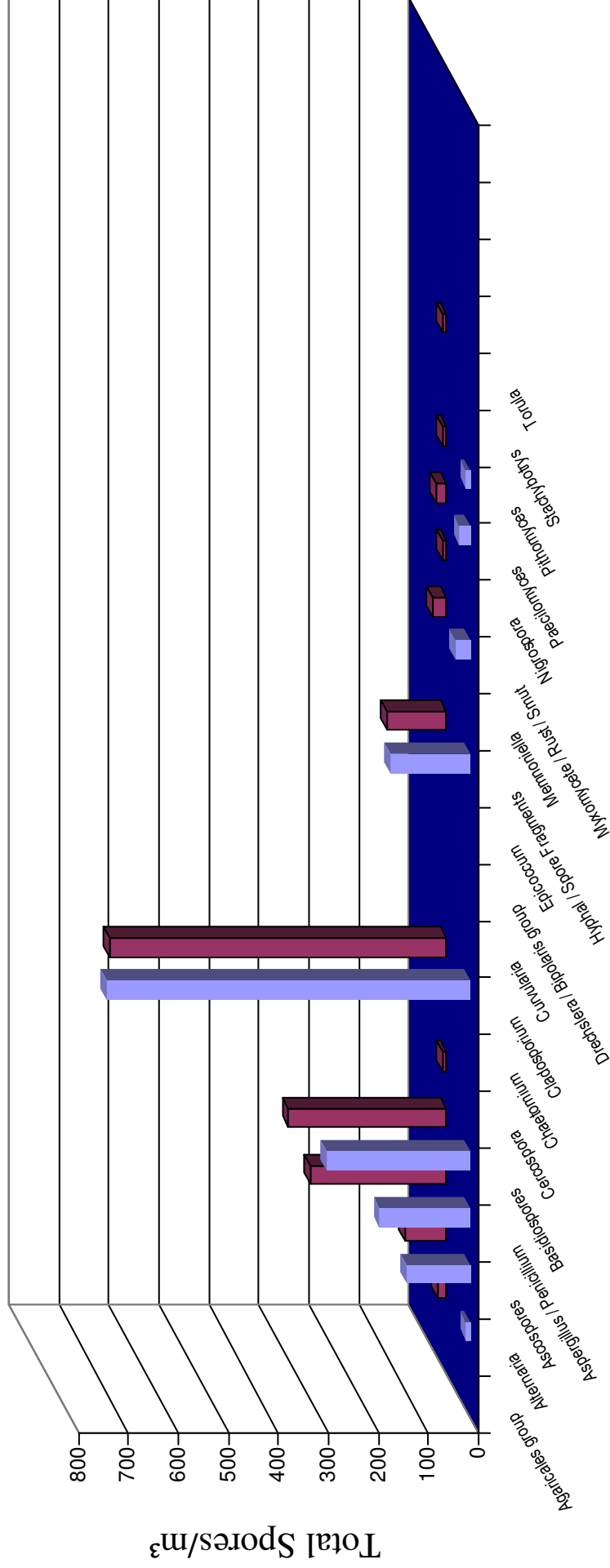
DSHS License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Apex Titan, Inc. - Dallas
Project : Timber Creek ES, Media Rm., Library & Hallway
Project # : 725010727061

Lab Job No. 17F-02212
Report Date 02/20/2017 2:16 PM
Sample Date : 02/16/2017

Exterior, West

■ Sample ■ Average Reference 1 □ Average Reference 2



Average Reference 1 = Exterior, West, Exterior, Southwest



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

IAQ Mold Report

Supplemental Overview

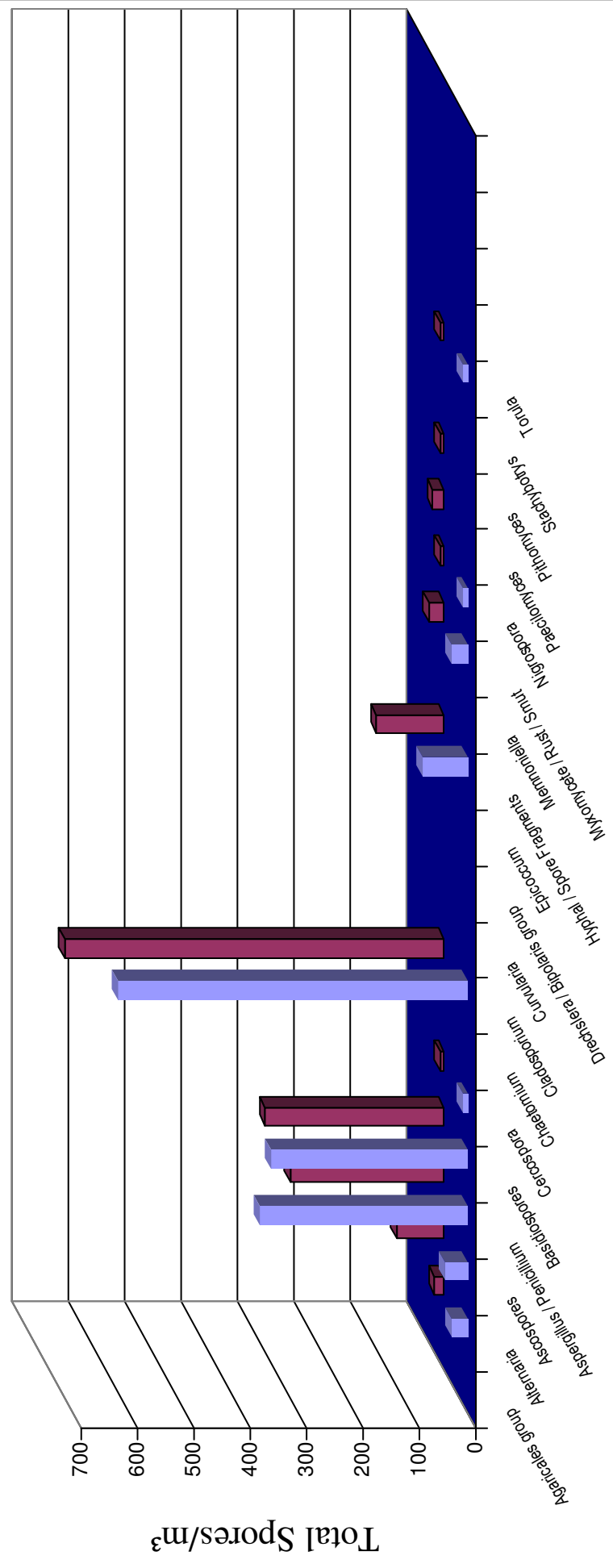
DSHS License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Apex Titan, Inc. - Dallas
Project : Timber Creek ES, Media Rm., Library & Hallway
Project # : 725010727061

Lab Job No. 17F-02212
Report Date 02/20/2017 2:16 PM
Sample Date : 02/16/2017

Exterior, Southwest

■ Sample ■ Average Reference 1 □ Average Reference 2



Average Reference 1 = Exterior, West, Exterior, Southwest

IAQ Mold Report

Supplemental Overview

DSHS License No.: LAB0117
 AIHA EMPAT ID: 102577



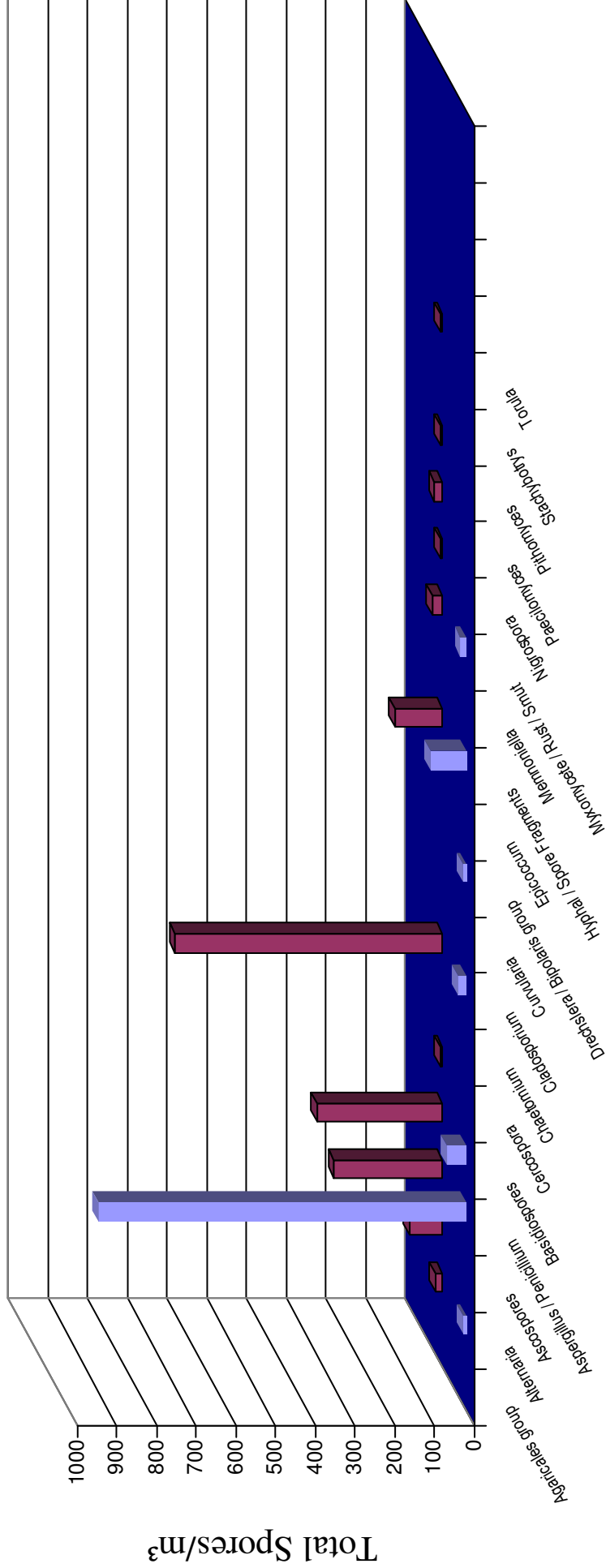
2051 Valley View Lane
 Farmers Branch, TX 75234 Phone: (972) 241-8460

Client : Apex Titan, Inc. - Dallas
Project : Timber Creek ES, Media Rm., Library & Hallway
Project # : 725010727061

Lab Job No. 17F-02212
Report Date 02/20/2017 2:16 PM
Sample Date : 02/16/2017

Media Room

■ Sample ■ Average Reference 1 □ Average Reference 2



Average Reference 1 = Exterior, West, Exterior, Southwest



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

IAQ Mold Report

Supplemental Overview

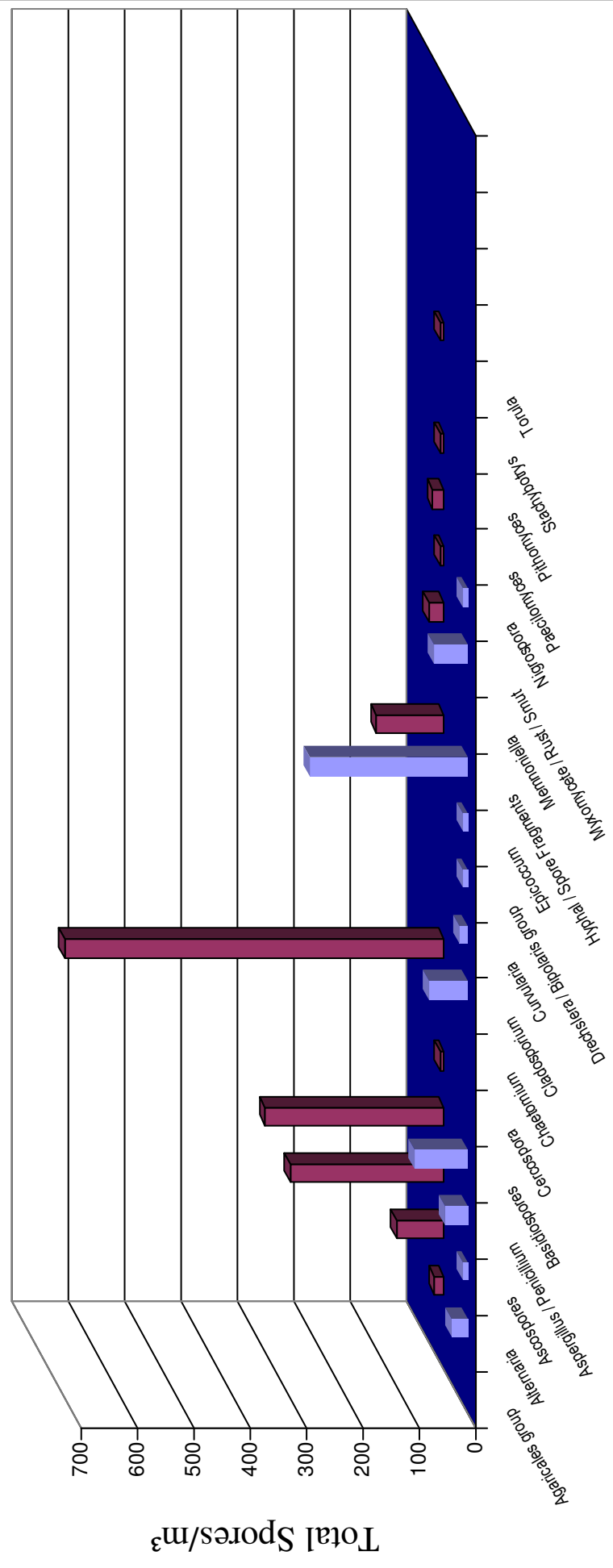
DSHS License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Apex Titan, Inc. - Dallas
Project : Timber Creek ES, Media Rm., Library & Hallway
Project # : 725010727061

Lab Job No. 17F-02212
Report Date 02/20/2017 2:16 PM
Sample Date : 02/16/2017

Library

■ Sample ■ Average Reference 1 □ Average Reference 2



Average Reference 1 = Exterior, West, Exterior, Southwest



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

IAQ Mold Report

Supplemental Overview

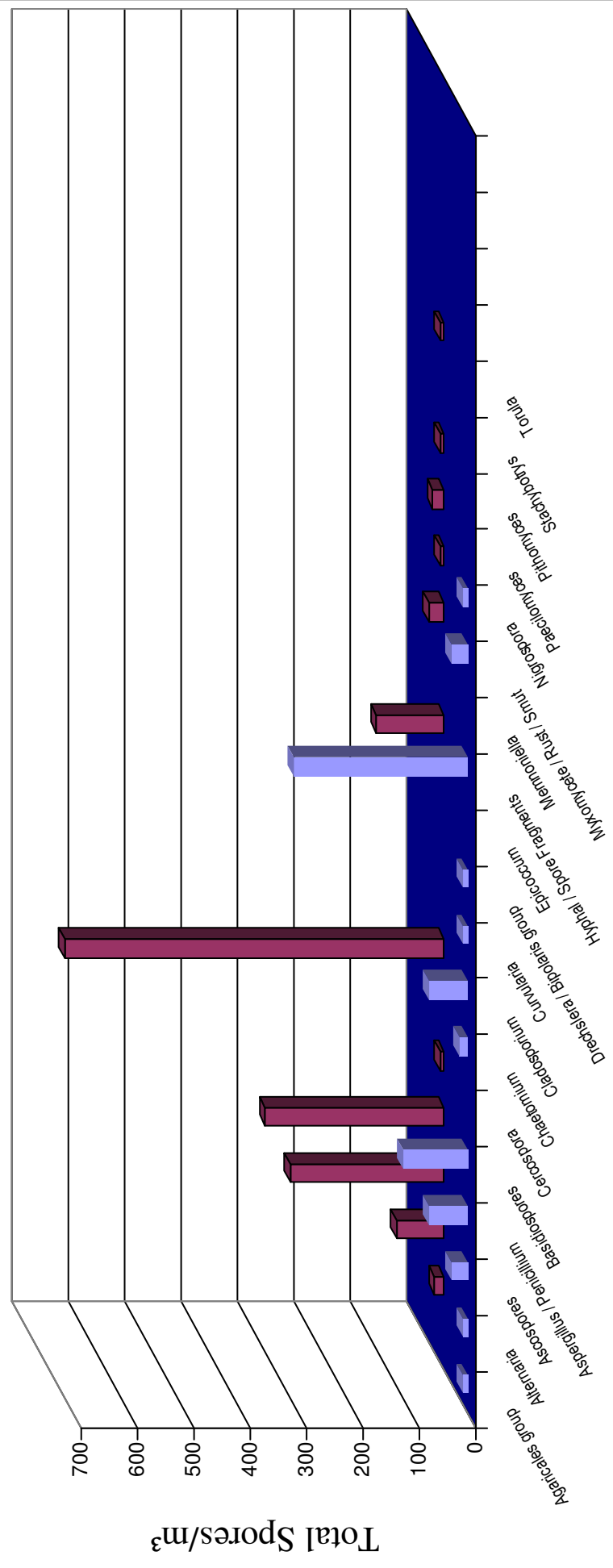
DSHS License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Apex Titan, Inc. - Dallas
Project : Timber Creek ES, Media Rm., Library & Hallway
Project # : 725010727061

Lab Job No. 17F-02212
Report Date 02/20/2017 2:16 PM
Sample Date : 02/16/2017

Hallway Between Library and Principal's Office

■ Sample ■ Average Reference 1 □ Average Reference 2



Average Reference 1 = Exterior, West, Exterior, Southwest



Chain of Custody

Lab Job # 17F-02212 A005
Lab Job #
Lab Job #

Please call in advance for immediate, after-hour, & weekend pricing & availability.

Page 1 of

ASBESTOS PLM

Bulk Immediate 1 day 2 day 3 day 5 day
Analyze All Positive Stop

PCM Air (7400)

Immediate 1 day 2 day 3 day 5 day

TOTAL DUST(0500/0600)

1 day 2 day

ASBESTOS TEM

Air AHERA Method Late Night* 6 hr 12 hr 24 hr
Air 7402 (Modified) 1 day 2 day 3 day
Bulk 1 day 2 day 3 day 5 day
Water/Wipe/Micro Vac 1 day 2 day 3 day
Analyze Blanks Yes No

*Late night analysis surcharges apply

MOLD

Direct Exam Immediate 1 day 2 day
Standard Air Immediate 1 day 2 day
Expanded Air Immediate 1 day 2 day
Culture** 10-14 days
Analyze Blanks Yes No

Turnaround of Culture Samples subject to Culture Growth

BACTERIA**

Colony Counts (CC) 3 day 5 day
CC + Gram Stain 3 day 5 day
Coliform & E. coli (P/A) 2-3 day
Legionella 14 days

OTHER:

Billing Company / City: Apex Titan, Inc.

of Samples: 5

Submitter's Company:

Sample Date: 2/16/2017

Submitter's Name: Clinton S. Jech

Project #: 725010727-061

Project: Tember Creek ES, Media Room, Library & Hallway outside library and Principals office

Phone #:

Contact Information: Name: Clint Jech

Mobile #: (972) 989-1031

E-mail Results to: Clint/Darren/Veronica

Fax #:

Invoice Address: Veronica

P.O. #:

Please review paperwork and samples before submitting to lab. Unsealed / improperly packaged / damaged / expired samples or excessive administrative requests may incur additional fees

Notes:

Table with 4 columns: Sample #, Sample Description, Vol. / Area (if applicable), Location / Notes. Contains 5 rows of sample data with handwritten notes on location and materials.

Signature and date fields for Released By and Received By, including dates and times.



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	Lab Job No. : 17F-02982
Project : Timbercreek Elementary School, Media Room	Report Date : 03/09/2017 12:35 PM
Project # : 725010727061	Sample Date: 03/07/2017
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

On 3/7/2017, 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
1	150	Exterior, Southwest	Hyphal / Spore Fragments	320 39%
			Cladosporium	273 34%
			Alternaria	80 10%
			Basidiospores	47 6%
			Ascospores	33 4%
			Myxomycete / Rust / Smut	27 3%
			Epicoccum	13 2%
			Curvularia	13 2%
			Oidium	7 <1%
2	150	Exterior, West	Cladosporium	967 61%
			Hyphal / Spore Fragments	260 16%
			Basidiospores	100 6%
			Myxomycete / Rust / Smut	60 4%
			Ascospores	60 4%
			Alternaria	40 3%
			Curvularia	33 2%
			Epicoccum	20 1%
			Drechslera / Bipolaris group	20 1%
			Agaricales group	7 <1%
			Coprinus group	7 <1%
			Torula	7 <1%
			Pithomyces	7 <1%
			Chaetomium	7 <1%



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 : Timbercreek Elementary School, Media Room
Project # : 725010727061
Sample Type: Spore Trap, Non-cultured
Test Method: Mold: ASTM D7391-09 - Standard Profile

Lab Job No. : 17F-02982
Report Date : 03/09/2017 12:35 PM
Sample Date: 03/07/2017
Spore Trap Type: Zefon - Air-O-Cell

Page 2 of 2

On 3/7/2017, 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	Media Room	Basidiospores Aspergillus / Penicillium Hyphal / Spore Fragments Cladosporium Alternaria Total:	13 28% 13 28% 7 15% 7 15% 7 15% 47 100%

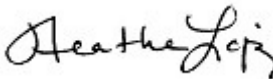
Results may not be reported except in full. Data contained in this test report relates only to the samples tested. This report does not express or imply interpretation of the results contained herein. Interpretation should be made by a qualified professional.


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): Mushtaq Khan

Lab Manager : Heather Lopez

Lab Director : Bruce Crabb

Approved Signatory : 

Approved Signatory : 

Thank you for choosing Moody Labs



IAQ Mold Report

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-02982

Project : Timbercreek Elementary School, Media Room

Report Date : 03/09/2017 12:35 PM

Project # : 725010727061

Sample Date: 03/07/2017

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, Southwest				Exterior, West				Media Room			
Media Expires On:	Nov 2017				Nov 2017				Nov 2017			
Notes Included:												
Volume:	150				150				150			
	raw ct.	MDL	spores/m ³		raw ct.	MDL	spores/m ³		raw ct.	MDL	spores/m ³	
Agaricales group					1	6.67	7	<1%				
Alternaria	12	6.67	80	10%	6	6.67	40	3%	1	6.67	7	15%
Ascospores	5	6.67	33	4%	9	6.67	60	4%				
Aspergillus / Penicillium									2	6.67	13	28%
Basidiospores	7	6.67	47	6%	15	6.67	100	6%	2	6.67	13	28%
Chaetomium					1	6.67	7	<1%				
Cladosporium	41	6.67	273	34%	145	6.67	967	61%	1	6.67	7	15%
Coprinus group					1	6.67	7	<1%				
Curvularia	2	6.67	13	2%	5	6.67	33	2%				
Drechslera / Bipolaris group					3	6.67	20	1%				
Epicoccum	2	6.67	13	2%	3	6.67	20	1%				
Hyphal / Spore Fragments	48	6.67	320	39%	39	6.67	260	16%	1	6.67	7	15%
Memnoniella												
Myxomycete / Rust / Smut	4	6.67	27	3%	9	6.67	60	4%				
Oidium	1	6.67	7	<1%								
Pithomyces					1	6.67	7	<1%				
Stachybotrys												
Torula					1	6.67	7	<1%				
TOTALS	122		813	100%	239		1595	100%	7		47	100%
Analyst	Mushtaq Khan				Mushtaq Khan				Mushtaq Khan			
Analysis Date	3/9/2017				3/9/2017				3/9/2017			
Debris Rating	4				3				2			
Debris Composition												
Fibers	1/5				1/5				1/5			
Inorganic/Other	3/5				3/5				1/5			
Insect Parts	0/5				0/5				0/5			
Pollen	2/5				2/5				1/5			
Skin/Dander	1/5				1/5				2/5			

End of Data Detail section
17F-02982

SMLMS v12.08



IAQ Mold Report

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-02982

Project : Timbercreek Elementary School, Media Room

Report Date : 03/09/2017 12:35 PM

Project # : 725010727061

Sample Date : 03/07/2017

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.

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

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.



IAQ Mold Report

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

Project : Timbercreek Elementary School, Media Room

Project # : 725010727061

Sample Type: Spore Trap, Non-cultured

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

Lab Job No. : 17F-02982

Report Date : 03/09/2017 12:35 PM

Sample Date : 03/07/2017

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-02982

IAQ Mold Report

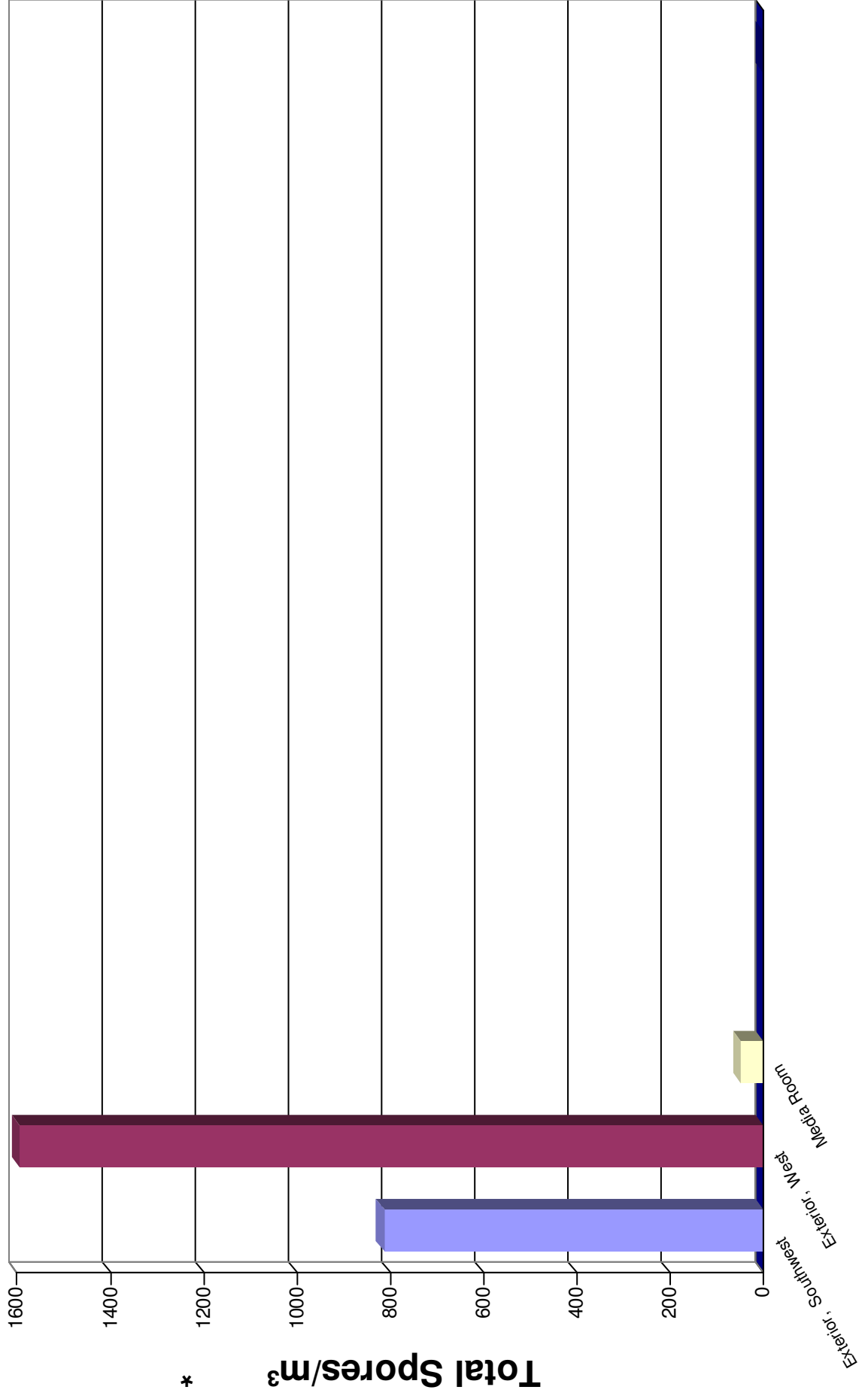
Supplemental Overview

DSHS License No.: LAB0117
AIHA EMPAT ID: 102577

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

Client : Apex Titan, Inc. - Dallas
Project : Timbercreek Elementary School, Media Room
Project # : 725010727061

Lab Job No. 17F-02982
Report Date 03/09/2017 12:35 PM
Sample Date : 03/07/2017



*

Total Spores/m³



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

IAQ Mold Report

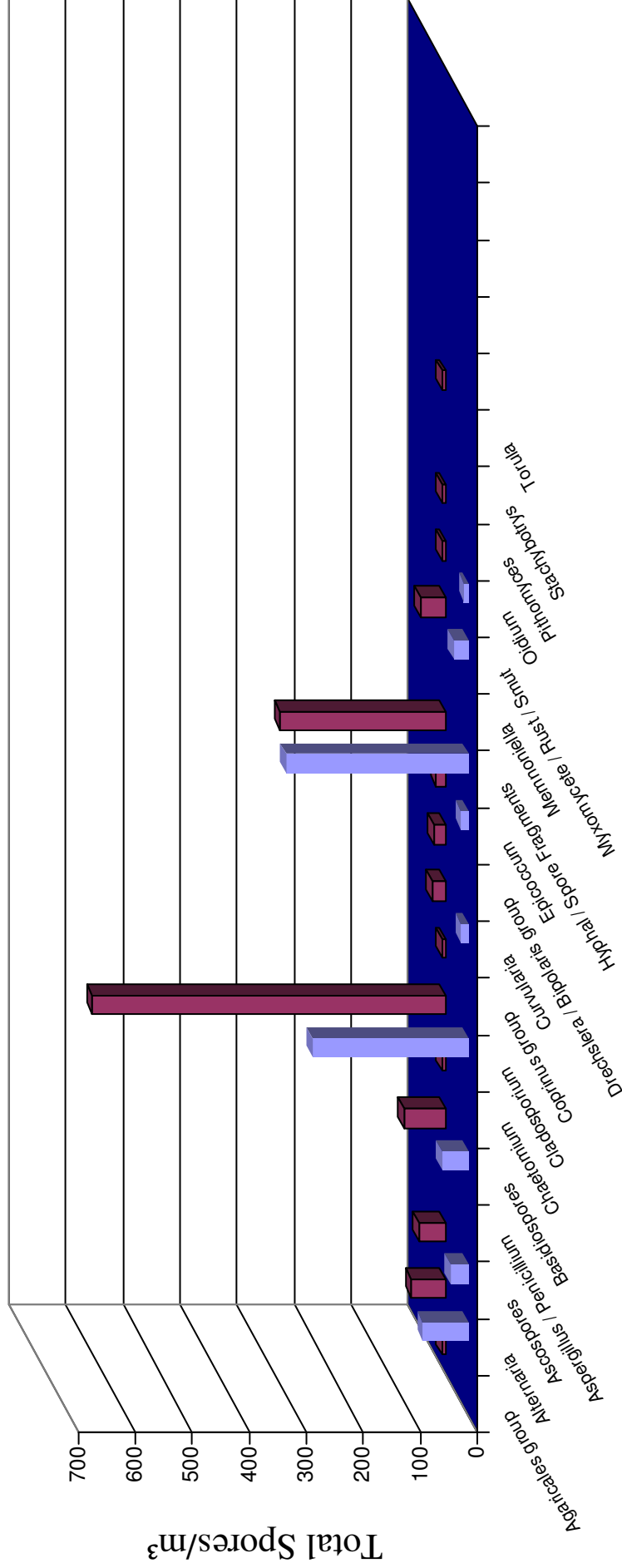
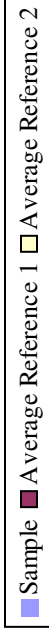
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Project : Timbercreek Elementary School, Media Room
Project # : 725010727061

Lab Job No. 17F-02982
Report Date 03/09/2017 12:35 PM
Sample Date : 03/07/2017

Exterior, Southwest



Average Reference 1 = Exterior, Southwest, Exterior, West

IAQ Mold Report

Supplemental Overview

DSHS License No.: LAB0117
 AIHA EMPAT ID: 102577



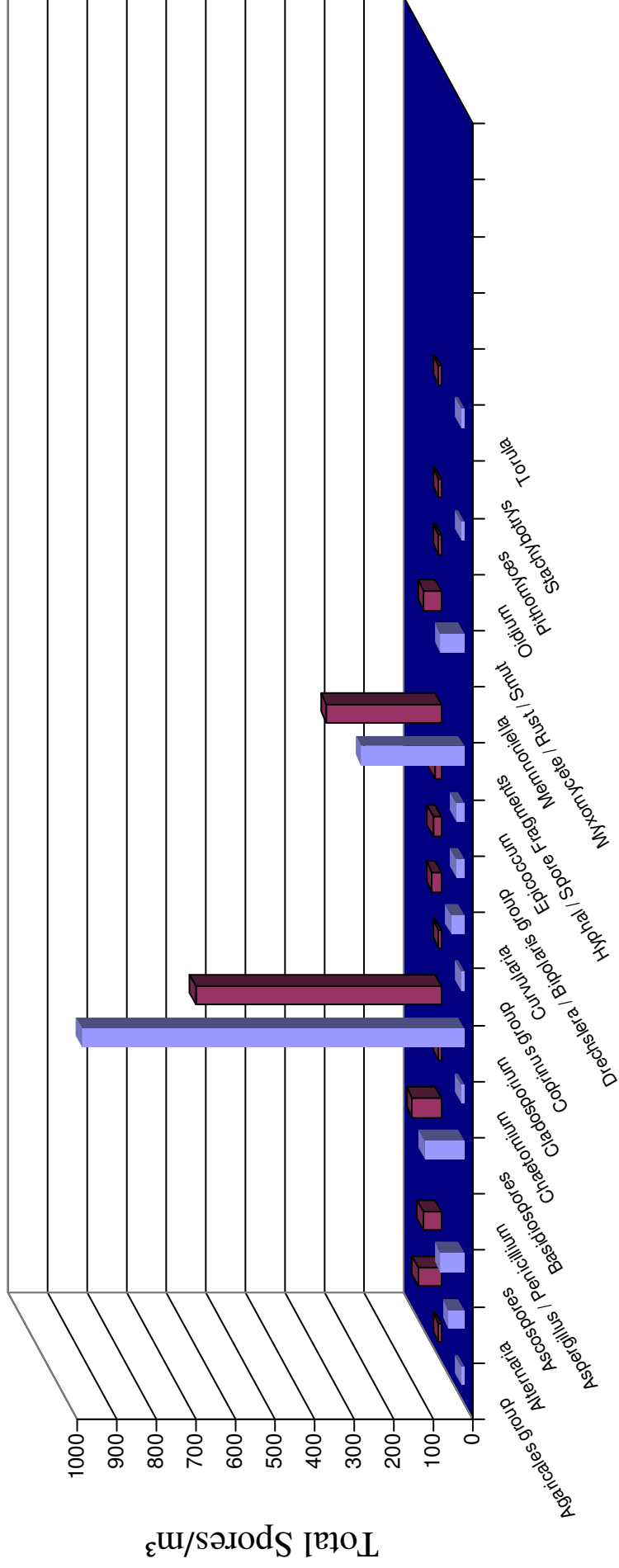
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Project : Timbercreek Elementary School, Media Room
Project # : 725010727061

Lab Job No. 17F-02982
Report Date 03/09/2017 12:35 PM
Sample Date : 03/07/2017

Exterior, West

■ Sample ■ Average Reference 1 □ Average Reference 2



Average Reference 1 = Exterior, Southwest, Exterior, West



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

Client : Apex Titan, Inc. - Dallas
Project : Timbercreek Elementary School, Media Room
Project # : 725010727061

IAQ Mold Report

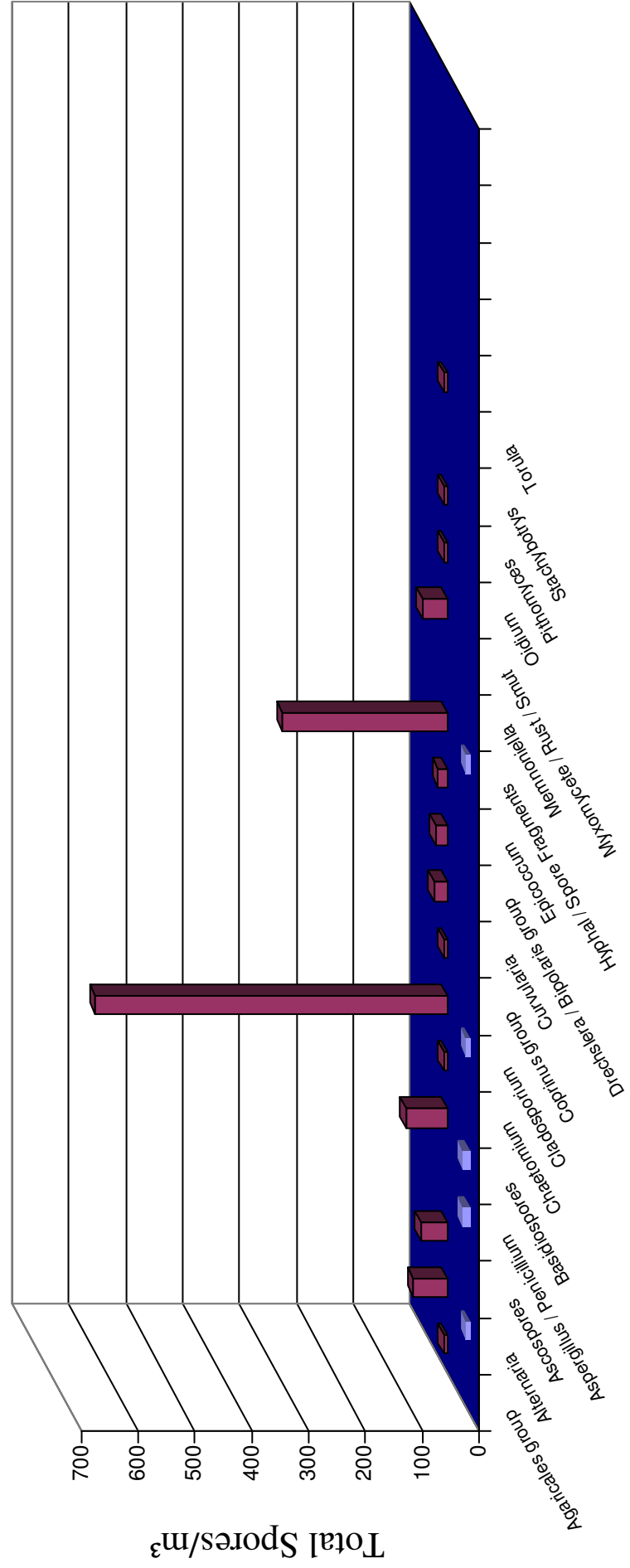
Supplemental Overview

DSHS License No.: LAB0117
AIHA EMPAT ID: 102577

Lab Job No. 17F-02982
Report Date 03/09/2017 12:35 PM
Sample Date : 03/07/2017

Media Room

■ Sample ■ Average Reference 1 □ Average Reference 2



Average Reference 1 = Exterior, Southwest, Exterior, West



Chain of Custody

Lab Job # 17F-02982 AOC 3
 Lab Job # _____
 Lab Job # _____

Please call in advance for immediate, after-hour, & weekend pricing & availability.

ASBESTOS PLM

Bulk Immediate 1 day 2 day 3 day 5 day
 Analyze All Positive Stop

PCM Air (7400)

Immediate 1 day 2 day 3 day 5 day

TOTAL DUST(0500/0600)

1 day 2 day

ASBESTOS TEM

Air AHERA Method Late Night* 6 hr 12 hr 24 hr
 Air 7402 (Modified) 1 day 2 day 3 day
 Bulk 1 day 2 day 3 day 5 day
 Water/Wipe/Micro Vac 1 day 2 day 3 day
 Analyze Blanks Yes No

*Late night analysis surcharges apply

MOLD

Direct Exam Immediate 1 day 2 day
 Standard Air Immediate 1 day 2 day
 Expanded Air Immediate 1 day 2 day
 Culture** 10-14 days
 Analyze Blanks Yes No

Turnaround of Culture Samples subject to Culture Growth

BACTERIA**

Colony Counts (CC) 3 day 5 day
 CC + Gram Stain 3 day 5 day
 Coliform & E. coli (P/A) 2-3 day
 Legionella 14 days

OTHER: _____

Billing Company / City: Apex Titan, Inc

of Samples: 3

Submitter's Company: _____

Sample Date: 3/7/2017

Submitter's Name: Clinton S. Tech

Project #: 72501072701

Project: Timbercreek Elementary School Media Room

Phone #: _____

Contact Information: Name: Clint Tech

Mobile #: (972) 989-1031

E-mail Results to: Clint/Darren/Veronica

Fax #: _____

Invoice Address: Veronica

P.O. #: _____

Please review paperwork and samples before submitting to lab. Unsealed / improperly packaged / damaged / expired samples or excessive administrative requests may incur additional fees

Notes: _____

Sample #	Sample Description	Vol. / Area (if applicable)	Location / Notes
1	Exterior, Southwest	150	T=67.4 ° H=7.1 'A
2	Exterior, West	150	T=64.9 ° H=10.4 'A
3	Media Room	150	T=71.2 ° H=39.4 'A. M=8-11 'A
			Ceiling = Ceiling Tile
			Walls = Sheetrock
			Floors = Floor Tile
			One strand (crack) Ceiling Tile
			Possible mold Growth on another
			Moderated Dust on Server Equipment

Released By: <u>[Signature]</u>	Date / Time: <u>3/7/2017 1:30M</u>	Received By: <u>Veronica Thier</u>	Date / Time: <u>3/7/17 1:30PM</u>
Released By: _____	Date / Time: _____	Received By: _____	Date / Time: _____

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.