

**DATE:** April 5, 2017

**TO:** Trish Cuckler, Principal

**SUBJECT:** Hedrick ES - IAQ - Initial Contact - Room 311

I received W.O. #406757: "teacher in room 311 is requesting air quality in her room as she feels nauseous a lot of the times by 2pm every time she is in there all day. She says she has tried to figure out what is causing her to feel this way since the BOY." This morning 4/5 – 6:50 AM, I inspected Room 311. There was no noticeable signs of water intrusion. I have submitted a P.O. request to have Room 311 Air Tested. We should have the room Air Tested by the end of the week and have the results back by Tuesday 4/11. 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 13, 2017

**TO:** Trish Cuckler, Principal

**SUBJECT:** IAQ - Air Test Results report - Hedrick ES - Room 311

On Friday 4/7, Apex-Titan Air tested Room 311. 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 Room 311, was **13.9%** 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



April 13, 2017

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

Re: Limited Mold Assessment Services  
Hedrick Elementary School  
Room 311  
1532 Bellaire Boulevard  
Lewisville, Texas  
LISD PO No. 91730029-00  
Apex Project No. 725010727069

### **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 April 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 room 311. 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. P725010727079) dated April 5, 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 5, 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 room was reported as 74.4 degrees Fahrenheit while relative humidity was reported as 36.5 percent. Temperature readings collected outside the building ranged from 67.6 to 73.9 degrees Fahrenheit while outside relative humidity ranged from 25.1 to 32.1 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 rooms ranged from 8-11% 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 461 counts/m<sup>3</sup>, while the exterior level ranged from 3,314 to 3,101 counts/m<sup>3</sup>.

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 room 311 reported Drechslera/Bipolaris group as 133 counts/m<sup>3</sup> while exterior levels were reported as 40 counts/m<sup>3</sup> and Pithomyces as 7 counts/m<sup>3</sup> 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 or excessive dust were noted was observed during the assessment. However, a mild odor was present within the classroom 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  
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

**Lab Job No. :** 17F-04315

**Project :** Hedrick ES Room 311

**Report Date :** 04/11/2017 9:05 AM

**Project # :** 725010727069

**Sample Date:** 04/07/2017

**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 4/7/2017, 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, Northwest	Cladosporium	2621 79%		
			Ascospores	267 8%		
			Basidiospores	167 5%		
			Aspergillus / Penicillium	120 4%		
			Alternaria	53 2%		
			Drechslera / Bipolaris group	40 1%		
			Oidium	33 <1%		
			Epicoccum	13 <1%		
			Total:			3314 100%
			2	150	Exterior, Northeast	Cladosporium
Ascospores	260 8%					
Aspergillus / Penicillium	233 8%					
Basidiospores	193 6%					
Hyphal / Spore Fragments - Dematiaceous	180 6%					
Myxomycete / Rust / Smut	127 4%					
Alternaria	113 4%					
Paecilomyces	67 2%					
Fusarium	40 1%					
Epicoccum	20 <1%					
Drechslera / Bipolaris group	20 <1%					
Nigrospora	13 <1%					
Torula	13 <1%					
Pestalotia / Pestalotiopsis	7 <1%					
Cercospora	7 <1%					
Total:						3101 100%



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Page 2 of 2

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Sample Number	Volume (liters)	Sample Description	Identification	Concentration spores/cubic meter
3	150	Room 311	Hyphal / Spore Fragments - Dematiaceous	107 23%
			Ascospores	107 23%
			Cladosporium	73 16%
			Basidiospores	53 11%
			Drechslera / Bipolaris group	47 10%
			Myxomycete / Rust / Smut	27 6%
			Aspergillus / Penicillium	13 3%
			Alternaria	13 3%
			Nigrospora	7 2%
			Pithomyces	7 2%
			Epicoccum	7 2%
			Total:	461 100%

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): Nina Mims

Lab Manager : Heather Lopez

Approved Signatory :

Lab Director : Bruce Crabb

Approved Signatory :

Thank you for choosing Moody Labs





# IAQ Mold Report

## Data Detail

DSHS License No.: LAB0117

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

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**Lab Job No. :** 17F-04315

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**Report Date :** 04/11/2017 9:05 AM

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**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, Northeast				Room 311			
Media Expires On:	Nov 2017				Nov 2017				Nov 2017			
Notes Included:												
Volume:	150				150				150			
	raw ct.	MDL	spores/m <sup>3</sup>		raw ct.	MDL	spores/m <sup>3</sup>		raw ct.	MDL	spores/m <sup>3</sup>	
Agaricales group												
Alternaria	8	6.67	53	2%	17	6.67	113	4%	2	6.67	13	3%
Ascospores	40	6.67	267	8%	39	6.67	260	8%	16	6.67	107	23%
Aspergillus / Penicillium	18	6.67	120	4%	35	6.67	233	8%	2	6.67	13	3%
Basidiospores	25	6.67	167	5%	29	6.67	193	6%	8	6.67	53	11%
Cercospora					1	6.67	7	<1%				
Chaetomium												
Cladosporium	393	6.67	2621	79%	271	6.67	1808	58%	11	6.67	73	16%
Coprinus group												
Curvularia												
Diatrypaceae												
Drechslera / Bipolaris group	6	6.67	40	1%	3	6.67	20	<1%	7	6.67	47	10%
Epicoccum	2	6.67	13	<1%	3	6.67	20	<1%	1	6.67	7	2%
Fusarium					6	6.67	40	1%				
Ganoderma												
Hyphal / Spore Fragments - Dematiac					27	6.67	180	6%	16	6.67	107	23%
Hyphal / Spore Fragments - Hyaline												
Memnoniella												
Myxomycete / Rust / Smut					19	6.67	127	4%	4	6.67	27	6%
Nigrospora					2	6.67	13	<1%	1	6.67	7	2%
Oidium	5	6.67	33	<1%								
Paecilomyces					10	6.67	67	2%				
Periconia												
Peronospora												
Pestalotia / Pestalotiopsis					1	6.67	7	<1%				
Pithomyces									1	6.67	7	2%
Pyricularia												
Scopulariopsis												
Spegazzinia												
Stachybotrys												
Tetraploa												
Torula					2	6.67	13	<1%				
Ulocladium / Stemphylium												
Zygothia												
<b>TOTALS</b>	497		3314	100%	465		3101	100%	69		461	100%
Analyst	Nina Mims				Nina Mims				Nina Mims			
Analysis Date	4/10/2017				4/10/2017				4/11/2017			
Debris Rating	2				2				2			
Debris Composition												



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**Client :** Apex Titan, Inc. - Dallas

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**Project # :** 725010727069

**Sample Type:** Spore Trap, Non-cultured

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

**Lab Job No. :** 17F-04315

**Report Date :** 04/11/2017 9:05 AM

**Sample Date:** 04/07/2017

**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.

Fibers	1/5	1/5	1/5
Inorganic/Other	2/5	2/5	2/5
Insect Parts	1/5	1/5	1/5
Pollen	1/5	1/5	1/5
Skin/Dander	0/5	0/5	2/5

End of Data Detail section

17F-04315

SMLMS v12.11



# 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-04315

**Project :** Hedrick ES Room 311

**Report Date :** 04/11/2017 9:05 AM

**Project # :** 725010727069

**Sample Date :** 04/07/2017

**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

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**Project :** Hedrick ES Room 311

**Project # :** 725010727069

**Sample Type:** Spore Trap, Non-cultured

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

**Lab Job No. :** 17F-04315

**Report Date :** 04/11/2017 9:05 AM

**Sample Date :** 04/07/2017

**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-04315

# IAQ Mold Report

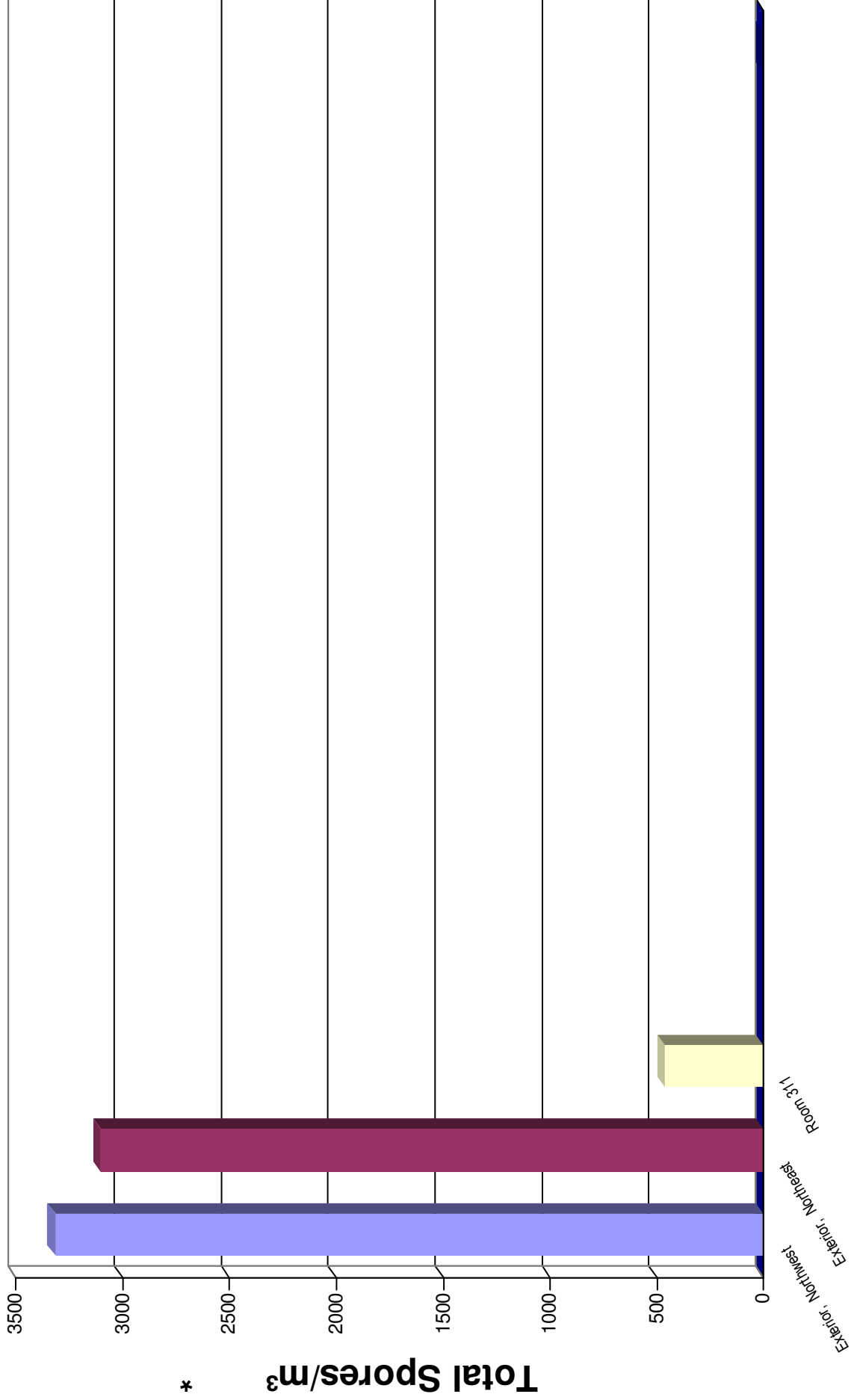
## Supplemental Overview

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 :** Hedrick ES Room 311  
**Project # :** 725010727069

**Lab Job No.** 17F-04315  
**Report Date** 04/11/2017 9:05 AM  
**Sample Date :** 04/07/2017





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

# IAQ Mold Report

## Supplemental Overview

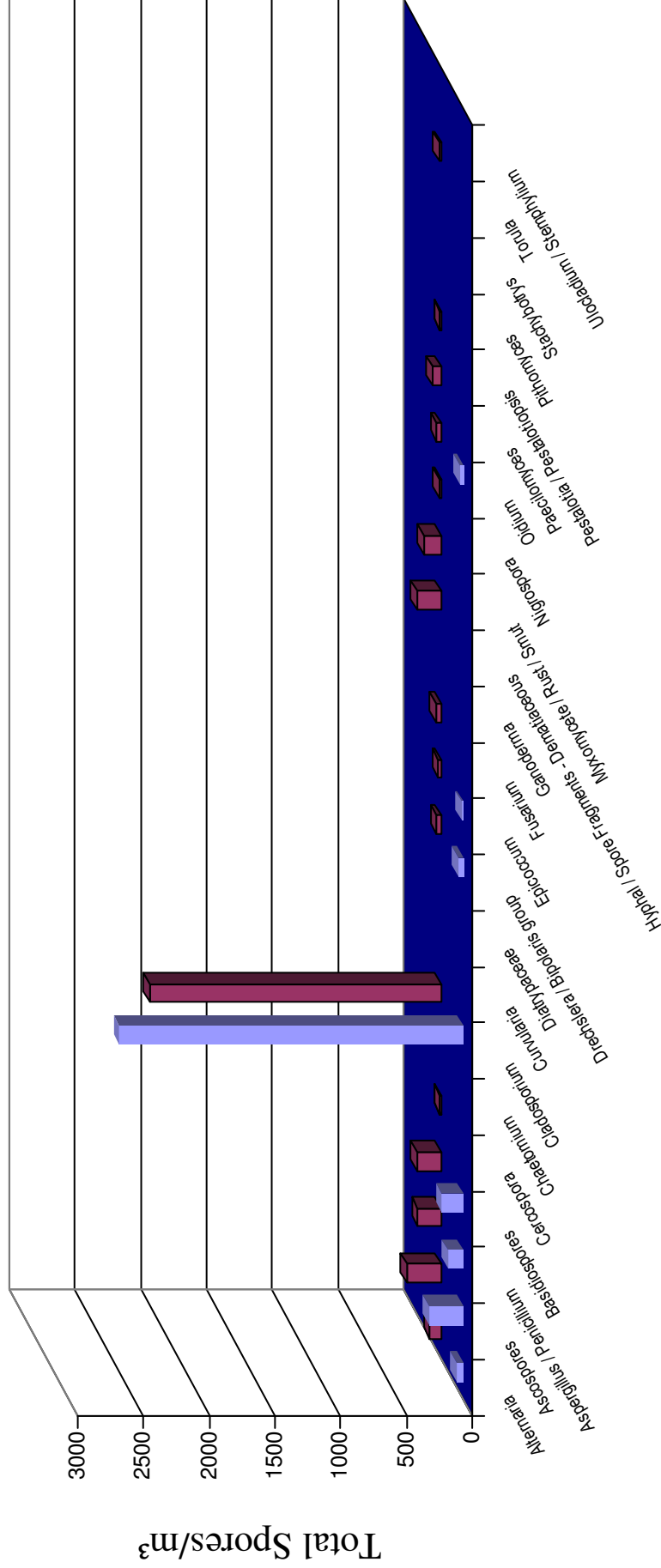
DSHS License No.: LAB0117  
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**Project :** Hedrick ES Room 311  
**Project # :** 725010727069

**Lab Job No.** 17F-04315  
**Report Date** 04/11/2017 9:05 AM  
**Sample Date :** 04/07/2017

Exterior, Northwest

■ Sample ■ Average Reference 1 □ Average Reference 2



Average Reference 1 = Exterior, Northwest, Exterior, Northeast

# IAQ Mold Report

## Supplemental Overview

DSHS License No.: LAB0117  
 AIHA EMPAT ID: 102577



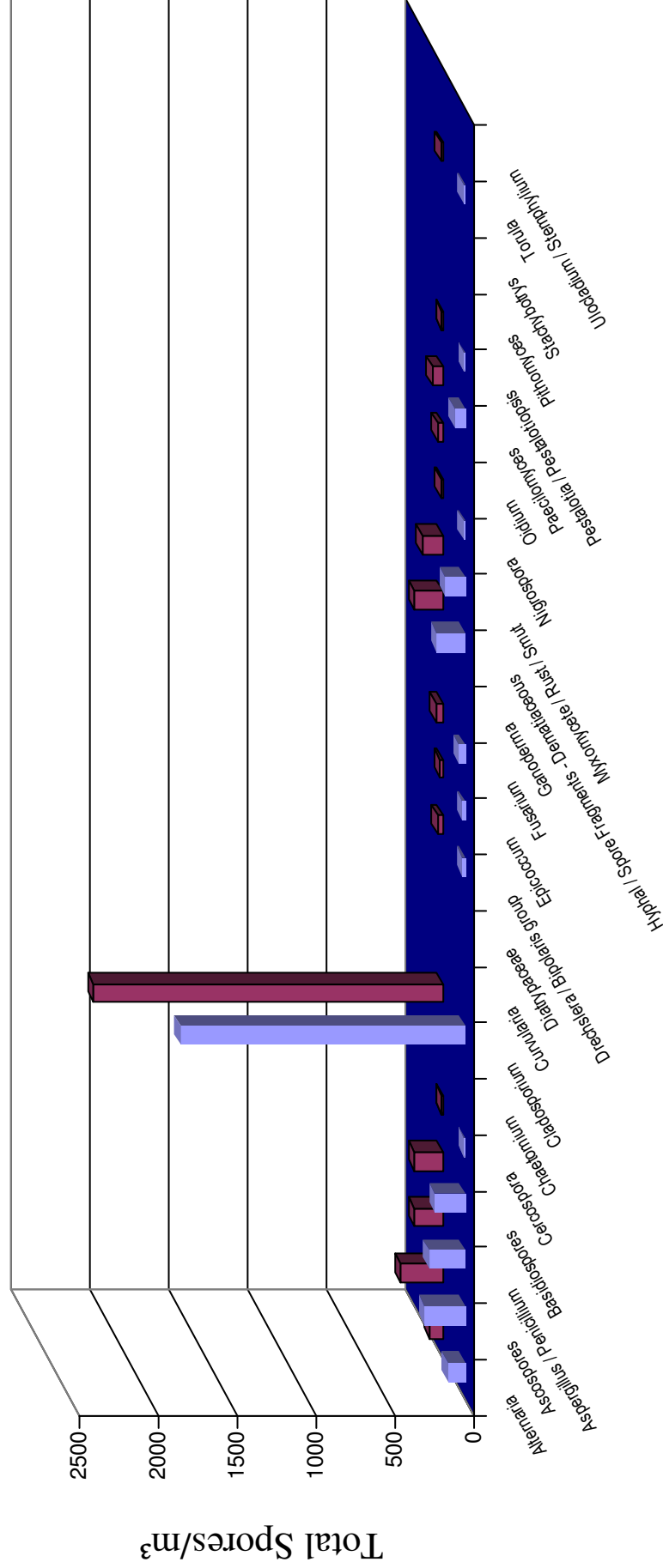
2051 Valley View Lane  
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**Project # :** 725010727069

**Lab Job No.** 17F-04315  
**Report Date** 04/11/2017 9:05 AM  
**Sample Date :** 04/07/2017

Exterior, Northeast

■ Sample ■ Average Reference 1 □ Average Reference 2



Average Reference 1 = Exterior, Northwest, Exterior, Northeast

# IAQ Mold Report

## Supplemental Overview

DSHS License No.: LAB0117  
 AIHA EMPAT ID: 102577



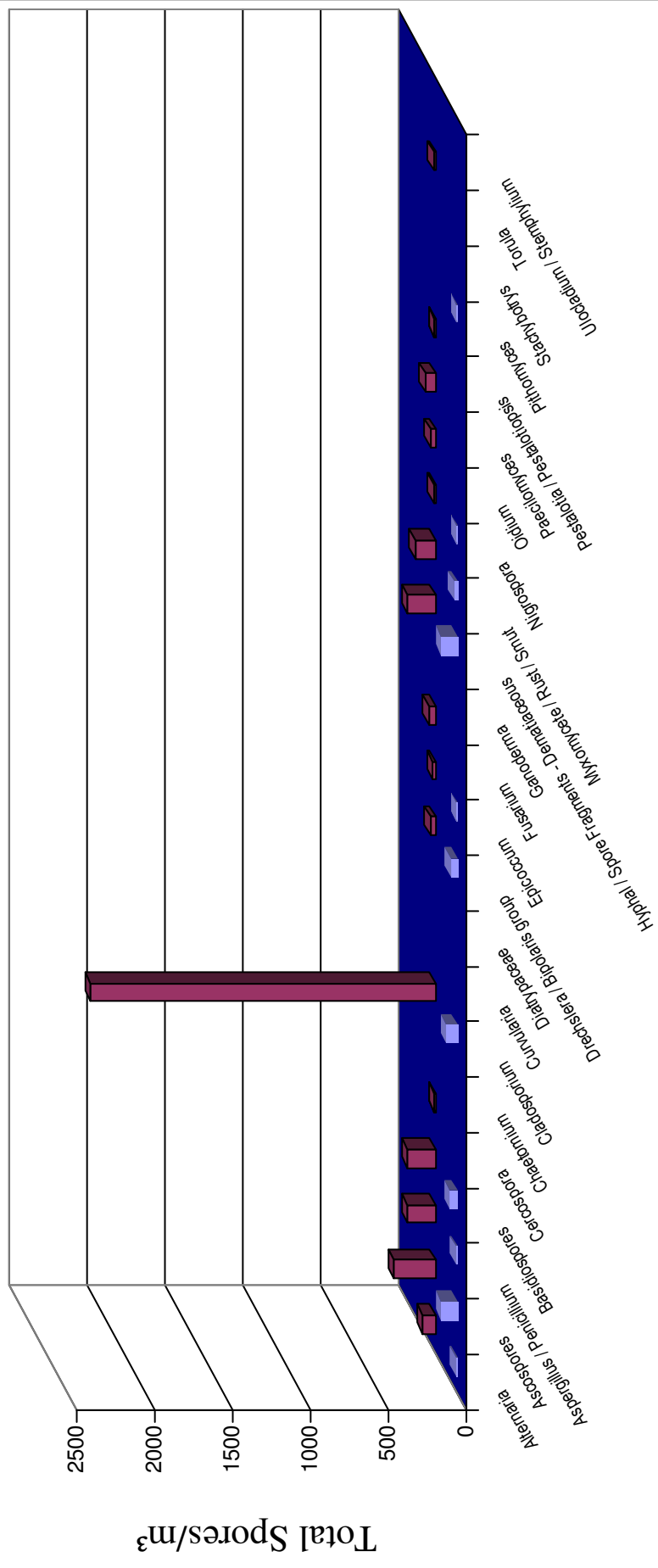
2051 Valley View Lane  
 Farmers Branch, TX 75234 Phone: (972) 241-8460

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**Project # :** 725010727069

**Lab Job No.** 17F-04315  
**Report Date** 04/11/2017 9:05 AM  
**Sample Date :** 04/07/2017

Room 311

■ Sample ■ Average Reference 1 □ Average Reference 2



Average Reference 1 = Exterior, Northwest, Exterior, Northeast





# Chain of Custody

Lab Job # MF-04315 Acc 3  
 Lab Job # \_\_\_\_\_  
 Lab Job # \_\_\_\_\_

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

Page 1 of 1

**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  
 Colliform & E. coli (P/A)  2-3 day  
 Legionella  14 days

**OTHER:** \_\_\_\_\_

Billing Company / City: Apek Titan, Inc. # of Samples: 3  
 Submitter's Company: \_\_\_\_\_ Sample Date: 4/17/2017  
 Submitter's Name: Clinton S. Jech Project #: 725010927019  
 Project: Hedrick ES Room 311 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:

Sample #	Sample Description	Vol. / Area (if applicable)	Location / Notes
1	Exterior, South Northwest	150	T= 67.6 ° H= 32.9 ft.
2	Exterior, Northeast	150	T= 73.9 ° H= 25.1 ft.
3	Room 311	150	T= 74.4 ° H= 30.5 ft. D= 8-11 ft. Ceilings = Ceiling Tile Walls = Sheetrock Floors = Carpet Mild odor No Stained Ceiling tiles

Released By:	Date / Time: <u>4/17/2017 11:09</u>	Received By:	Date / Time: <u>4.17.17 11:09 AM</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.