

**DATE:** June 25, 2015

**TO:** Dulia Longoria, Principal

**SUBJECT:** Lillie Jackson EC - IAQ - Air Test results - Kitchen Dressing room

On Friday 6/19, Apex-Titan Air tested the Dressing room in the Kitchen. It is typically assumed that indoor spore levels in an area with filtered or air conditioned air, and activity levels associated with schools average 10% to 40% of the outdoor levels. Data from the airborne fungi sampling indicated that the total indoor concentration of mold/fungi in the Dressing room in the Kitchen, was 0.3% of the outdoor levels. Utilizing this theory, the indoor concentrations are well within the acceptable guidelines for areas with filtered air or air conditioning. If you have any questions, please call me. Thanks,  
Paul

Paul Siddall  
Maintenance Energy Auditor (IAQ)  
Facility Services  
Lewisville ISD  
469-446-8882



June 23, 2015

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

Re: Limited Mold Assessment Services  
Lillie Jackson ECC  
Kitchen Dressing Room  
1651 Valley Parkway  
Lewisville, Texas  
LISD PO No. 91536616-00  
Apex Project No. 7250115176

### **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 Lillie Jackson ECC located at 1651 Valley Parkway 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 June 19, 2015. 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 kitchen dressing room. 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. P01151254) dated May 29, 2015. 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 June 19, 2015 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 71.0 degrees Fahrenheit while relative humidity ranged was 46.0 percent. Temperature readings collected outside the building ranged from 78.4 to 87.6 degrees Fahrenheit while outside relative humidity ranged from 59.5 to 71.5 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

### **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 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 188 counts/m<sup>3</sup>, while the exterior level ranged from 37,065 to 74,227 counts/m<sup>3</sup>.

The American Conference of Governmental Industrial Hygienists (ACGIH) sets forth assessment criteria related to the “indoor/outdoor” relationship where the indoor air quality should be at or below that of outdoor air quality with regard to fungal spores (see ACGIH Bioaerosols, Assessment and Controls publication, 1999).

### **Suspect Mold**

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

### **Conclusions and Recommendations**

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

If you have any questions regarding this report or if we can assist you with any other matter, please contact the undersigned at (214) 350-5469.

Sincerely,  
**Apex TITAN, Inc.**



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, TX  
**Project :** Lillie Jackson, Kitchen Dressing Room  
**Project # :** 7250115176  
**Sample Type:** Spore Trap, Non-cultured  
**Test Method:** Mold: ASTM D7391-09 - Standard Profile

**Lab Job No.** 15F-07824  
**Report Date** 06/23/2015 12:53 PM  
**Sample Date :** 06/19/2015  
**Spore Trap Type:** Zefon - Air-O-Cell

Page 1 of 3

On 6/19/2015, three (3) samples were submitted by Clint Jech of Apex TITAN, Inc. - Dallas, TX (located at 2351 W. NW Highway #3321, Dallas, TX 75220) for Spore Trap, Non-cultured mold analysis. This report consists of three sections; a summary section, a data detail section, and an analytical notes section.

Sample Number	Volume (liters)	Sample Description	Identification	Concentration spores/cubic meter
1	75	Exterior, Southwest * See Analytical Notes report for further details	Basidiospores Cladosporium Ascospores Coprinus group Aspergillus / Penicillium Myxomycete / Rust / Smut Agaricales group Alternaria Hyphal / Spore Fragments Pyricularia Cercospora Ganoderma Fusarium Epicoccum Drechslera / Bipolaris group Cerebella / Monodictys Fusicladium Periconia Pithomyces	30400 82% 2173 6% 1733 5% 1013 3% 653 2% 413 1% 173 <1% 107 <1% 80 <1% 67 <1% 53 <1% 53 <1% 27 <1% 27 <1% 27 <1% 27 <1% 13 <1% 13 <1% 13 <1%  Total: 37065 100%



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Sample Number	Volume (liters)	Sample Description	Identification	Concentration spores/cubic meter
2	75	Exterior, West * See Analytical Notes report for further details	Basidiospores Cladosporium Ascospores Coprinus group Aspergillus / Penicillium Agaricales group Alternaria Myxomycete / Rust / Smut Cercospora Hyphal / Spore Fragments Pyricularia Diatrypaceae Drechslera / Bipolaris group Paecilomyces Fusarium Fusicladium Ganoderma Pithomyces Curvularia Epicoccum Periconia Asteromyces Torula  <div style="text-align: right;">Total:</div>	59600 80% 6285 8% 3612 5% 1933 3% 693 <1% 373 <1% 320 <1% 293 <1% 227 <1% 213 <1% 120 <1% 107 <1% 93 <1% 93 <1% 80 <1% 53 <1% 40 <1% 27 <1% 13 <1% 13 <1% 13 <1% 13 <1%  74227 100%



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Sample Number	Volume (liters)	Sample Description	Identification	Concentration spores/cubic meter
3	150	Kitchen Dressing Room	Basidiospores Hyphal / Spore Fragments Cladosporium Aspergillus / Penicillium Myxomycete / Rust / Smut  <div style="text-align: right;">Total:</div>	100 53% 27 14% 27 14% 27 14% 7 4%  188 100%

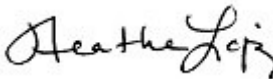
Results may not be reported except in full. Data contained in this test report relates only to the samples tested. This report does not express or imply interpretation of the results contained herein. Interpretation should be made by a qualified professional.


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): Rebecca Lutz

Lab Manager : Heather Lopez

Lab Director : Bruce Crabb

Approved Signatory : 

Approved Signatory : 

Thank you for choosing Moody Labs





# IAQ Mold Report

## Data Detail

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

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**Lab Job No. :** 15F-07824

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**Sample Date :** 06/19/2015

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

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Sample ID:	1				2				3			
Location:	Exterior, Southwest				Exterior, West				Kitchen Dressing Room			
Media Expires On:	Mar 2016				Mar 2016				Mar 2016			
Notes Included:	See Analytical Notes				See Analytical Notes							
Volume:	75				75				150			
	raw ct.	MDL	spores/m <sup>3</sup>		raw ct.	MDL	spores/m <sup>3</sup>		raw ct.	MDL	spores/m <sup>3</sup>	
Agaricales group	13	13.33	173	<1%	28	13.33	373	<1%				
Alternaria	8	13.33	107	<1%	24	13.33	320	<1%				
Ascospores	130	13.33	1733	5%	271	13.33	3612	5%				
Aspergillus / Penicillium	49	13.33	653	2%	52	13.33	693	<1%	4	6.67	27	14%
Asteromyces					1	13.33	13	<1%				
Basidiospores	152	200.00	30400	82%	149	400.00	59600	80%	15	6.67	100	53%
Cercospora	4	13.33	53	<1%	17	13.33	227	<1%				
Cerebella / Monodictys	2	13.33	27	<1%								
Chaetomium												
Cladosporium	163	13.33	2173	6%	110	57.14	6285	8%	4	6.67	27	14%
Coprinus group	76	13.33	1013	3%	145	13.33	1933	3%				
Curvularia					1	13.33	13	<1%				
Diatrypaceae					8	13.33	107	<1%				
Drechslera / Bipolaris group	2	13.33	27	<1%	7	13.33	93	<1%				
Epicoccum	2	13.33	27	<1%	1	13.33	13	<1%				
Fusarium	2	13.33	27	<1%	6	13.33	80	<1%				
Fusicladium	1	13.33	13	<1%	4	13.33	53	<1%				
Ganoderma	4	13.33	53	<1%	3	13.33	40	<1%				
Hyphal / Spore Fragments	6	13.33	80	<1%	16	13.33	213	<1%	4	6.67	27	14%
Memnoniella												
Myxomycete / Rust / Smut	31	13.33	413	1%	22	13.33	293	<1%	1	6.67	7	4%
Paecilomyces					7	13.33	93	<1%				
Periconia	1	13.33	13	<1%	1	13.33	13	<1%				
Pithomyces	1	13.33	13	<1%	2	13.33	27	<1%				
Pyricularia	5	13.33	67	<1%	9	13.33	120	<1%				
Stachybotrys												
Torula					1	13.33	13	<1%				
<b>TOTALS</b>	652		37065	100%	885		74227	100%	28		188	100%
Analyst	Rebecca Lutz				Rebecca Lutz				Rebecca Lutz			
Analysis Date	6/23/2015				6/23/2015				6/23/2015			
Debris Rating	3				4				4			
Debris Composition												
Fibers	1/5				2/5				1/5			
Inorganic/Other	3/5				4/5				3/5			
Insect Parts	0/5				0/5				0/5			
Pollen	1/5				0/5				0/5			
Skin/Dander	1/5				4/5				4/5			



# IAQ Mold Report

## Analytical Notes

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**Lab Job No. :** 15F-07824

**Project :** Lillie Jackson, Kitchen Dressing Room

**Report Date :** 06/23/2015 12:53 PM

**Project # :** 7250115176

**Sample Date :** 06/19/2015

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

Page 1 of 3

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

### Samples Analyzed

Sample No 1 : Exterior, Southwest

Notes: Due to a high presence of Basidiospores, the Minimum Detection Limit is 200 spores / cubic meter for this fungal group. When comparing results to other samples, use calculated results, not raw numbers.

Sample No 2 : Exterior, West

Notes: Due to a high presence of Basidiospores, the Minimum Detection Limit is 400 spores / cubic meter for this fungal group. When comparing results to other samples, use calculated results, not raw numbers.  
Due to a high presence of Cladosporium, the Minimum Detection Limit is 57 spores / cubic meter for this fungal group. 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.**



# IAQ Mold Report

## Analytical Notes

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### Methods

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

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

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

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

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



# IAQ Mold Report

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LAB # 102577



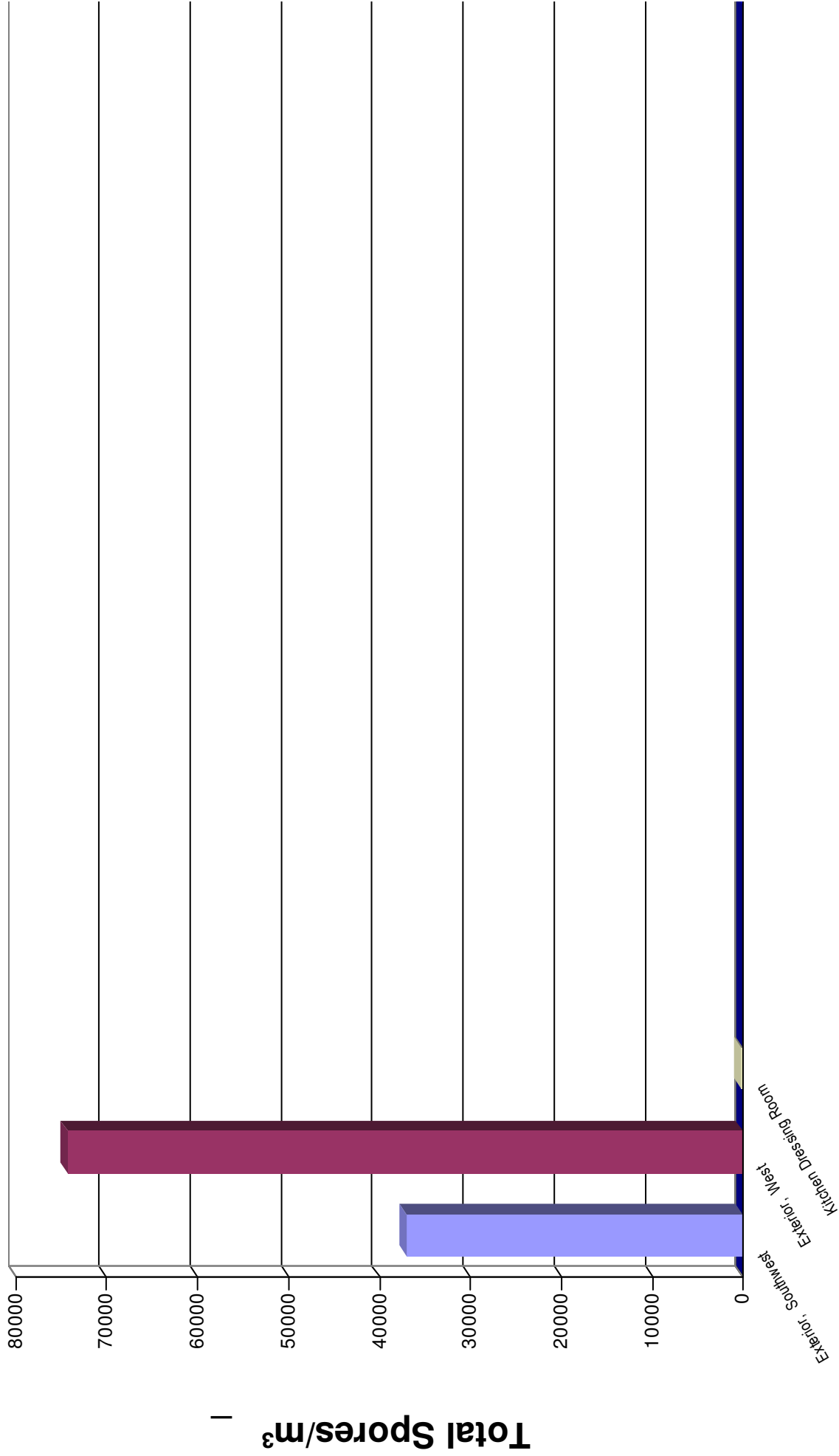
Moody Labs  
2051 Valley View Lane  
Farmers Branch, TX 75234 Phone: (972) 241-8460

# IAQ Mold Report Supplemental Overview

DSHS License No.: LAB0117  
AIHA EMPAT ID: 102577

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**Project # :** 7250115176

**Lab Job No.** 15F-07824  
**Report Date** 06/23/2015 12:53 PM  
**Sample Date :** 06/19/2015



# IAQ Mold Report

## Supplemental Overview

DSHS License No.: LAB0117  
 AIHA EMPAT ID: 102577

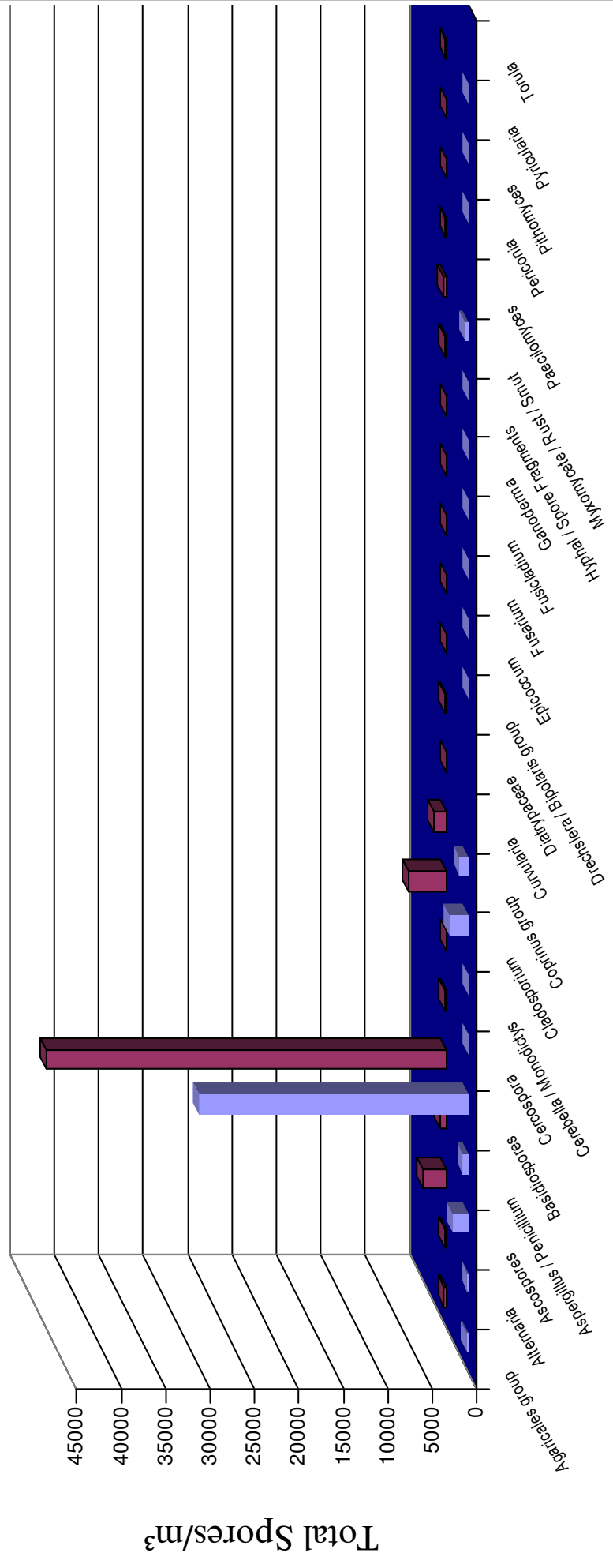
**Moody Labs**  
 2051 Valley View Lane  
 Farmers Branch, TX 75234 Phone: (972) 241-8460

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**Report Date** 06/23/2015 12:53 PM  
**Sample Date** : 06/19/2015

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**Project # :** 7250115176

Exterior, Southwest

■ Sample    ■ Average Reference 1    ■ Average Reference 2



Average Reference 1 = Exterior, Southwest, Exterior, West

# IAQ Mold Report

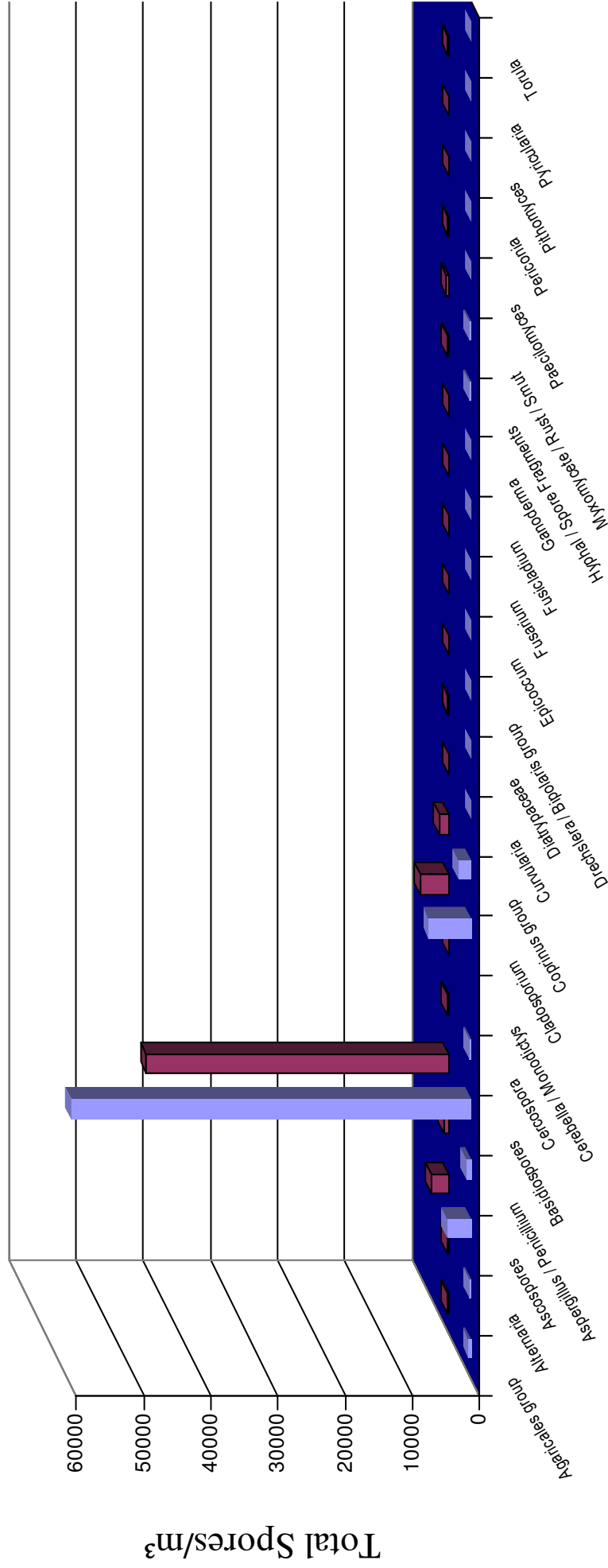
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**Lab Job No.** 15F-07824  
**Report Date** 06/23/2015 12:53 PM  
**Sample Date :** 06/19/2015

Exterior, West

■ Sample ■ Average Reference 1 □ Average Reference 2



Average Reference 1 = Exterior, Southwest, Exterior, West

# IAQ Mold Report

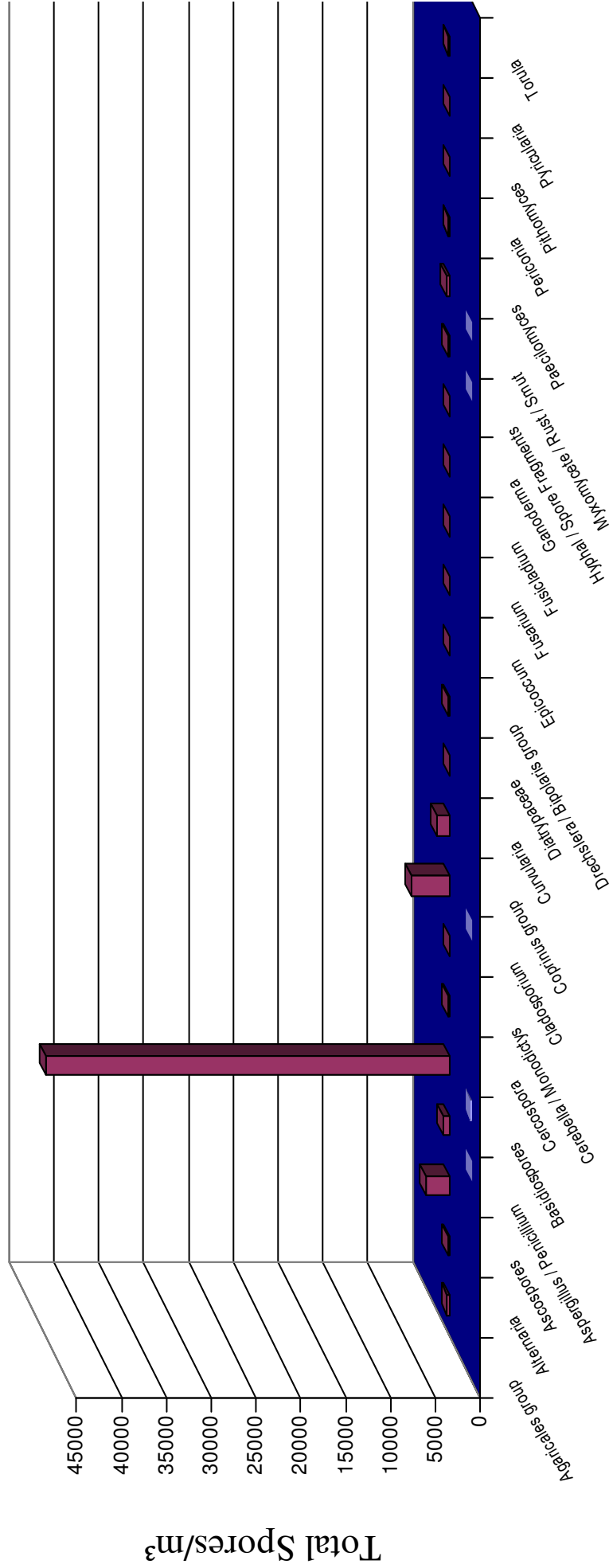
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**Sample Date :** 06/19/2015

Kitchen Dressing Room

■ Sample ■ Average Reference 1 □ Average Reference 2



Average Reference 1 = Exterior, Southwest, Exterior, West





Chain of Custody

Lab Job #	<u>FX-07824 AUG 13</u>
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  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

**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 (Dallas South) # of Samples: 3  
 Submitter's Company: \_\_\_\_\_ Sample Date: 6/19/15  
 Submitter's Name: Clint Jech Project #: 725015176  
 Project: Lillie Jackson, Kitchen Dressing Room Phone #: \_\_\_\_\_  
 Contact Information: Name: Clint Jech Mobile #: (972)989-1031  
 E-mail Results to: Clint/Darren/Vernica Fax #: \_\_\_\_\_  
 Invoice Address: Vernica 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
<u>1</u>	<u>Exterior, Southwest</u>	<u>75</u>	<u>T=76.4° H=71.5%</u>
<u>2</u>	<u>Exterior, West</u>	<u>75</u>	<u>T=87.6° H=59.5%</u>
<u>3</u>	<u>Kitchen Dressing Room</u>	<u>150</u>	<u>T=71.0° H=46.8% RH= %</u>
			<u>Ceilings = Ceiling Tile</u>
			<u>Walls = CMU Block</u>
			<u>Floors = Terrazzo</u>

Released By:	Date / Time: <u>6/19/15 1722</u>	Received By:	Date / Time: <u>6/19/15 5:02 PM</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.