

DATE: February 28, 2014

TO: Toby Maxson, Principal

SUBJECT: Heritage ES - IAQ - Air Test - Room B-18

I received an E-mail from Dianna Clark, in regards to Room B-18, on February 27: <u>"I</u> *just visited with Mr. Maxson. We have a parent that is wanting to know what type of allergens are in room B18 since her daughter says she is sick all the time when in her classroom, but feels better when she gets out of B18. Can you please put that room on the schedule to be tested? I did look and the last time B18 had any kind of "report" done was the school year of 2009-2010."* Yesterday afternoon 2/27, I inspected the room. There were no visible water intrusions. I am requesting a P.O. to Air Test that room. The weather needs to be above 60 degrees and no rain. If you have any questions, please contact me. Thanks,

Paul

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



DATE: April 4, 2014

TO: Toby Maxson, Principal

SUBJECT: Heritage ES - IAQ - Air Test results - Room B-18

On Monday 3/31, SWG Air tested the Room B-18. 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 Room B-18, was <u>4.4%</u> of the outdoor levels. Utilizing this theory, the indoor concentrations are within the acceptable guidelines for areas with filtered air or air conditioning. <u>Even</u> though the mold count was very low, we had 7% of Stachybotrys. I am requesting Custodial to Shampoo the carpet tonight 4/4, and Southwest GeoScience will retest on Tuesday 4/8 or Wednesday 4/9. Weather conditions should be favorable for testing. If you have any questions, please call me. Thanks, Paul

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



DATE: April 11, 2014

TO: Toby Maxson, Principal

SUBJECT: Heritage ES - IAQ - Air Test results - Room B-18

On Tuesday 4/8/14, SWG Air tested the Room B-18. 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 Room B-18, was **3.8**% 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



April 14, 2014

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

Re: Limited Mold Assessment Services Heritage Elementary School Room B18 100 Barnett Boulevard Highland Village, Texas Project No. 7210114H056A LISD PO# P268081

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 Heritage Elementary School located at 100 Barnett Boulevard in Highland Village, 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 8, 2014. 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 B18. 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. P0114H1145) dated April 8, 2014. 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 8, 2014 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 74.1 degrees Fahrenheit while relative humidity was reported as 43.5 percent. Temperature readings collected outside the building ranged from 73.0 to 74.4 degrees Fahrenheit while outside relative humidity ranged from 16.2 to 18.3 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	
ŀ	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 7 to 12% which is considered normal by the manufacturer.



<u>Air Monitoring Results</u>

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, Inc. (SMMS) in Farmers Branch, Texas; SMMS is a State of Texas licensed mold analysis laboratory and accredited under the AIHA Laboratory Quality Assurance Program for Environmental Microbiology.

Air testing performed using spore traps indicated that total airborne mold spores in the classrooms were lower as compared to those measured outside of the building at the time the sampling was performed. The total fungal spore concentration within the investigation area was reported as 547 counts/m³, while the exterior level ranged from 9,385 to 14,355 counts/m³. However, the air sample collected within the investigation area reported Stachybotrys as 20 counts/m³ while no exterior levels were reported. Chaetomium was reported as 7 counts/m³ while no exterior levels were reported.

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

Suspect Mold

No visible mold was observed during the assessment. No 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. Apex recommends that the areas be cleaned and further testing be performed. However due to the report of Stachybotrys additional investigation may be considered.

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 Industrial Hygiene Services 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

Steve Moody Micro Services, LLC

2051 Valley View Lane

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

Client : Apex TITAN, Inc. - Dallas, TX

Project : Heritage ES Room B18

Project # : 7210114H056

Summarv

DSHS License No.: LAB0117 AIHA EMPAT ID: 102577

Lab Job No. 14F-04162 Report Date 04/10/2014 1:39 PM

Spore Trap Type: Zefon - Air-O-Cell

Sample Date : 04/08/2014

Sample Type: Spore Trap, Non-cultured

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

Page 1 of 2

On 4/9/2014, 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, Southeast	Alternaria Ascospores Aspergillus / Penicillium Basidiospores Cladosporium Coprinus Hyphal / Spore Fragments Scopulariopsis	320 467 1266 3133 3572 40 560 27
2	75	Exterior, South	Total: Alternaria Ascospores Aspergillus / Penicillium Basidiospores Cladosporium Coprinus Hyphal / Spore Fragments Myxomycete / Periconia / Rust / Smut	9385 693 1053 2239 4199 5092 13 613 453
3	150	Room B18	Total: Aspergillus / Penicillium Basidiospores Chaetomium Cladosporium Hyphal / Spore Fragments Myxomycete / Periconia / Rust / Smut Stachybotrys Total:	14355 213 60 7 107 80 60 20 547

		IA	Q Mold Report		
Steve Moody Mi 2051 Valley View Farmers Branch, 7	Lane	<i>ices, LLC</i> Phone: (972) 241-8460	Summarv		e No.: LAB0117 PAT ID: 102577
Client : A	bex TITA	N, Inc Dallas, TX		Lab Job No. 14F-04162	
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Project # : 72	210114H0	56 Sample Date	e: 04/08/2014		
Sample Type: Sp	-			pe: Zefon - Air-O-Cell	
		M D7391-09 - Standard Profil			Page 2 of 2
		ere submitted by Clint Jech of Apex T red mold analysis. This report consis			
Sample Number	Volume (liters)	Sample Description	Ic	lentification	Concentration spores/cubic meter
the results contained her Steve Moody Micro Ser SMMS assumes no respo Analyst(s): Rob	ein. Interpret vices assume onsibility for Greene	n full. Data contained in this test report is ation should be made by a qualified pro- ss no responsibility for the manner in wh the qualifications of personnel performi	fessional.	or handled prior to being received at ns of this data.	this laboratory.
Lab Director: Bruc	e Crabb	— — — Thank you for choosing	Approved Signatory Steve Moody Micro Services	Bene Cull	•

				IAQ	Mo	ld Repo	ort				
Steve Moody Micro Servia 2051 Valley View Lane Farmers Branch, TX 75234			241-8460		Data	Detail					No.: LAB0117 AT ID: 102577
Client : Apex TITAN	N, Inc	Dallas,	TX				La	ab Job	No.:14F-0	04162	
Project : Heritage ES	Room B	18					R	eport l	Date : 04/10)/2014	1:39 PM
Project # : 7210114H05	56		Sample I	Date :	04/08/	2014					
Sample Type: Spore Trap,	Non-cul	tured			S	pore Trap	Туре	Zefo	n - Air-O-Co	ell	
Test Method: Mold: ASTN	4 D7391	-09 - S	Standard Pr	ofile							Page 1 of 1
This report consists of three section	s; a summ	ary secti	on, a data de	tail section	on, and	an analytical i	notes sec	tion. Re	sults may not l	be reporte	d except in full.
Sample ID:		1			2			3			
Location:	Exte	erior, Se	outheast	E	xterior,	South		Room	B18		
Debris Rating:		3			3			4			
Media Expires On:		Feb 20	015		Feb 20	015		Feb 20	015		
Notes Included?:											
Volume:		75			75			150)		
	raw ct.	MDL	spores/m ³	raw ct.	MDL	spores/m ³	raw ct.	MDL	spores/m ³		
Alternaria	24	13.33	320	52	13.33	693					
Ascospores	35	13.33	467	79	13.33	1053					
Aspergillus / Penicillium	95	13.33	1266	168	13.33	2239	32	6.67	213		
Basidiospores	235	13.33	3133	315	13.33	4199	9	6.67	60		
Chaetomium		10.00	0570	382	10.00	5000	1	6.67	7		
Cladosporium	268	13.33	3572		13.33	5092	16	6.67	107		
Coprinus	3	13.33	40	1	13.33	13	10	0.07			
Hyphal / Spore Fragments	42	13.33	560	46	13.33	613	12	6.67	80		
Memnoniella Myxomycete / Periconia /				34	13.33	453	9	6.67	60		
Rust / Smut				- 34	10.00	403	9	0.07	00		
Scopulariopsis	2	13.33	27								
Stachybotrys							3	6.67	20		
TOTALS	704		9385	1077		14355	82		547		
Analyst		Rob Gre	eene		Rob Gr	eene		Rob Gr	eene		
Analysis Date		4/10/20	014		4/10/2	014		4/10/2	014		

Debris Rating Key:

0 - No debris detected.

1 - Trace debris.

2 - Light debris.

3 - Moderate debris.

4 - Substantial debris.

5 - Extensive debris.

6 - Field blank.

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

IAQ Mold Report Steve Moody Micro Services, LLC **Analytical Notes** DSHS License No.: LAB0117 2051 Valley View Lane AIHA EMPAT ID: 102577 Farmers Branch, TX 75234 Phone: (972) 241-8460 Lab Job No. : 14F-04162 **Client :** Apex TITAN, Inc. - Dallas, TX **Project :** Heritage ES Room B18 **Report Date :** 04/10/2014 1:39 PM **Project # :** 7210114H056 Sample Date : 04/08/2014 Sample Type: Spore Trap, Non-cultured Spore Trap Type: Zefon - Air-O-Cell Test Method: Mold: ASTM D7391-09 - Standard Profile Page 1 of 1 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: 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. Steve Moody Micro Services 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. AIHA LAP, LLC TED LABORA ENVIRONMENTAL MICROBIOLOGY ISO/IEC 17025:2005 WWW.AIHAACCREDITEDLABS.ORG LAB # 102577 Certified partment of State Health Services Statewide Historically Underutilized Business Program Vomen's Business Enterprise icense # LAB0117

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ATTACHMENT 2

Mold Services Definitions & Limitations/Standard of Care and Reliance





Mold Services Definitions & Limitations

"Mold" defined. Mold is a general term used to describe various types of singled-celled naturally occurring biological organisms occurring worldwide. For purposes of this report (and the Texas Mold Assessment & Remediation Rules), 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 in Texas 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.

Texas Licensing Requirements. Apex (and/or its personnel) will render the services set forth in this proposal in the capacity of a Texas licensed Mold Assessor. Apex is not licensed as a Mold Remediation Contractor and does not perform mold remediation. As of January 1, 2005, Texas law has required that Mold Assessors and Mold Remediation Contractors be licensed.

Mold Remediation Certificate. For mold remediation projects (above certain size thresholds), applicable Texas law (i.e., Texas Occupation Code Section 1958.54 and T.A.C. Section 295.397 (the Texas Mold Assessment and Remediation Rules), requires that a "Certificate of Mold Remediation" be issued by the Mold Remediation Contractor upon successful completion of the project. This certificate must be provided to property owners no later than the 10th day after the date on which the mold remediation is completed at a property. The Mold Remediation Certificate issued by the Mold Remediation Contractor must include a certification by the Mold Assessor that the mold remediation project has been successfully completed in accordance with the mold remediation protocol.

Be advised that Apex's issuance of a Mold Remediation Certificate upon successful completion of a Mold Remediation project does not mean, warrant or otherwise guarantee that mold will not be subsequently found in any portion of the Investigation Area or the Site. In the event that Apex is engaged to render services in connection with a mold remediation project, Apex will require *Client to provide to Apex a signed certificate prepared by Client's moisture intrusion specialist or appropriate contractor stating that all sources of moisture which resulted in the presence of mold in the Investigation Area have been fully remediated and corrected.*

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.

