INDOOR AIR QUALITY ASSESSMENT REPORT
FOR THE
MARTIN AND WILLIAMSON BUILDING LOCATED ON THE EASTERN WASHINGTON UNIVERSITY IN CHENEY, WASHINGTON

MCS Project No: 18-002.3

Prepared for

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1.0 INTRODUCTION

Over the last several months, several complaints from the facility/occupants of the Martin and Williamson buildings have been brought to the attention of the Eastern Washington University (EWU) facilities staff. A site inspection was conducted by the Facilities and Administration representatives on May 29, 2018, and it was decided that an independent IAQ Assessment by an outside consultant was warranted.

Mountain Consulting Services was contacted to provide a sampling plan to assess the potential contaminates associated interior air quality for the Martin and Williamson Buildings. Upon review and acceptance of the Mountain Consulting Sampling Plan, the field work for the IAQ assessment was conducted from July 12 through July 16, 2018. Due to the scope of the work, Mountain Consulting Services has teamed with a Certified Industrial Hygienist (CIH) from a NV5 Global office in Richland, Washington.

2.0 SCOPE OF WORK

2.1 Mold/Fungi

Both buildings have historically had some water leak problems that has resulted in multiple complaints. Several mold spore samples were collected within the building(s) for analysis. As standards are not available for acceptable mold spores within buildings, the results will be compared to standard industry practice and to the ambient outside background levels on each day of sampling.

Mountain Consulting performed mold sampling utilizing Air-o-Cell cassettes. The samples were collected in the *offices* and one conference room where personnel have complained of exposure to/symptoms of mold concerns.

In addition, Mountain Consulting also obtained four samples per floor of general hallway/lecture hall areas for comparison, including one in the custodial area where mold remediation had been conducted and one in the room with brown indoor/outdoor carpet. Mountain Consulting obtained 1-3 outdoor air samples for comparison to indoor levels on each day that mold sampling was conducted.

2.2 Building Thermography

As part of the IAQ investigation, Mountain Consulting conducted a Thermography survey of both the Martin and Williamson Hall Buildings.

Mountain Consulting utilized a FLIR Systems Inferred camera. Exterior walls and wet walls within the buildings were scanned in an attempt to identify significant temperature differentials, which may indicate possible water intrusion issues and/or possible fungal activities. Any areas with significant temperature differentials were photo documented and included in the final report.

2.3 Ventilation Study

Ventilation is a very important aspect of indoor air quality. It was noted during the site walk that many of the room/hall ventilation ceiling supply vents had discharge surface areas that were discolored, a typical indication of ventilation system disorders. Several of the areas were also noted to be "stuffy."

A hot wire anemometer was utilized to determine air speed through the vent to the room. A ventilation survey was conducted throughout both buildings. This information will be compared between readings and also to ASHRAE 62.1, *Ventilation for Acceptable Indoor Air Quality.*

2.4 Lighting

Several of the offices were noted to have less than adequate lighting for an office environment. It has been noted that besides the factors that directly impact the levels of pollutants to which people are exposed, a number of environmental and personal factors can affect how people perceive air quality. One such factor is lighting. Therefore, light measurements were obtained in offices where mold complaints have been received, as well as those areas with low lighting, and the results were compared to the lighting levels cited in the Illuminating Engineering Society of North America (IESNA) Lighting Handbook.

2.5 Asbestos

During the site walk, Mountain Consulting was informed that abatement of asbestos containing ceiling tiles had been conducted on the third-floor of the Williamson Hall Building by an outside contractor. However, there was still some lingering concerns from the staff in this area of the building. Mountain Consulting agreed to collect ambient air quality control samples from within the third-floor area of the Williamson Hall Building.

3.0 ASSESSMENT SURVEY PARAMETERS

3.1 Mold/Fungi

Thirty-Eight (38) Air-o-Cell Spore Trap Samples were collected from the locations identified in the sampling plan. The airborne fungal spore samples were collected using the following equipment:

- Gast Model 1532 High Volume Sample Pump;
- EMS Field Rotometer – Secondary Calibration Source; and
- Air-o-Cell Sampling Cassettes.

Air-o-Cell sampling cassettes were exposed to the ambient air within the identified locations throughout Martin/Williamson Building and were used to collect exterior outdoor comparison samples from the exterior of the building to establish the current environmental airborne fungal spore levels for comparison.

All samples were collected for a period of 5 minutes at a rate of 15 liters of air per minute. An adhesive within the cassette is used to collect airborne fungal spores and particulate on a microscope cover slip. After exposure, the sampling cassettes were sealed in an air tight zip lock bag, numbered

with a unique sampling number, and submitted to EMLab P&K (TestAmerica Environmental Microbiology Laboratory, Inc.) of Bothell, Washington, following proper chain of custody procedures.

Samples were analyzed using an optical microscopy at 400X magnification with the entire trace (100 percent) of the sample being analyzed. The results were reported as total spores, meaning that both viable (living) and non-viable fungal spores are counted. This technique does not allow the mycologist to differentiate between *Aspergillus* and *Penicillium* spores. Additionally, depending on morphology, other non-distinctive spores were reported in categories such as *Ascospores* (produced in an ascus) or *Basidiospores* (including the mushrooms and other microfungi).

Table 1 lists the results of the spore trap sampling for each area listed.

Table 1: Mold Air-O-Cell Sample Results (reported in Spores/m^3)

Room Number	Altern.	Ascosp.	Basidio-spores	Chaet.	Cladoso.	Penicillium/ Aspergillus	Suts, Periconia Myxomycetes	Stachybotrys	Other	Total Spores
M-114A			160			430	130		13	730
M-152D	27	53	53		430		890			1,500
M-152E			53				150			200
M-158			110				160			270
M-249			53				93			150
M-247		53	270		53		93		13	480
M-228	13		53		110	110	490	13	40	830
M-237			160		110	110	67			440
M-253			160				200			360
M-254			370		53		40		26	550
M-258			270			53	150		26	490
M-238 Hall	13		210	13	430		1,300		53	2,100
Mart 2nd Hallway SW end			320		53	110	160			640
Mart. 2nd Hallway NE	13		160				110			280
M-151G		53	270		160	110	440		40	1,100
M-140			160				80			240
M-237 Attic			53		270		230			550
Mart. 1st Hallway NE			53		53					110
Mart. 1st Hallway SE		110	53		53		53		13	280
W-232		53			110	110	1,700	13	39	2,000
W-310			53		110		530			690
W-34B					110	110	270			480
W-314						110	13			120
W-205		53			53		170			280
W-W RR			110		53	160	170			490
W-3rd floor Hallway			53		53	160	350			610

Room Number	Altern.	Ascosp.	Basidio-spores	Chaet.	Cladoso.	Penicillium/ Aspergillus	Suts, Periconia Myxomycetes	Stachybotrys	Other	Total Spores
W-3rd floor Hallway		53	110			160				320
Stairwell Between Buildings			160				53		13	230
W-2nd floor Hallway W							13			13
Outside Courtyard	120	1,100	1,200		3,500	320	1,800		450	8,400
Outside South Side		270	1,100		210	110	440			2,100
Outside East Entry		110	530		53	53	360		13	1,100
W-2nd floor Hallway E			53				13			67
M-224			53				27		27	110
M-151A		53					170			230
W-1st floor Hallway W							13			13
W-1st floor Hallway E					53					53
Outside Martin Main Ent.	13	160	640		850	110	810		26	2,600

3.2 Building Thermography

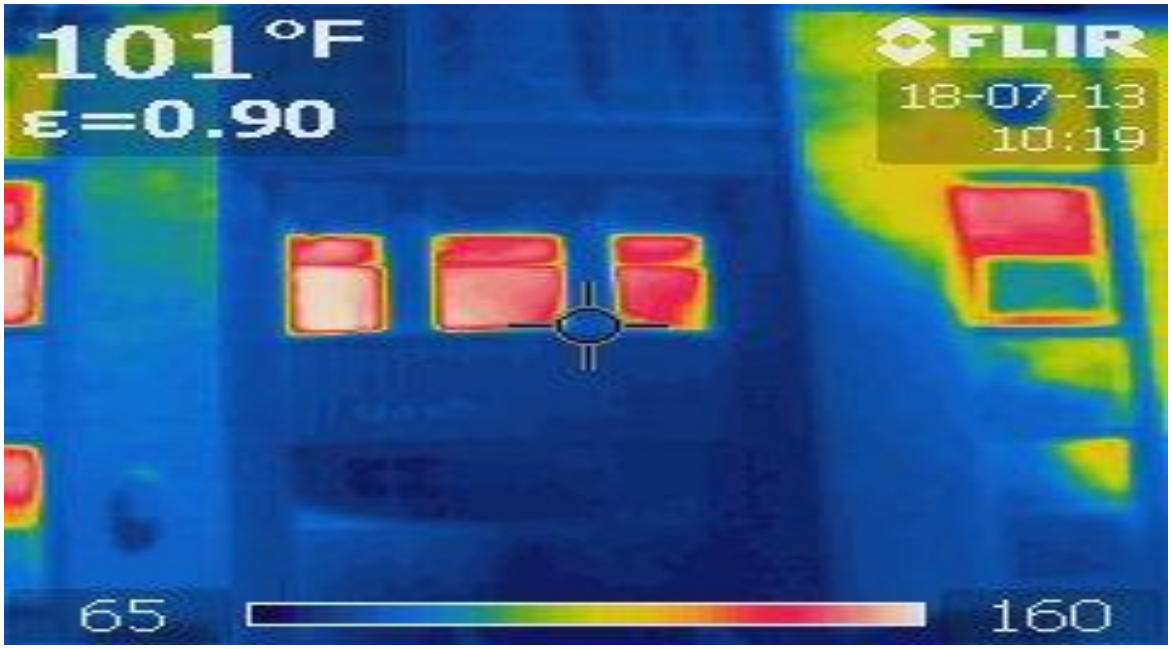
Mountain Consulting conducted a thermography survey of the Martin/Williamson Buildings which utilized the FLIR Systems BCAM SD Inferred camera.

Technical parameters for the FLIR camera are listed below:

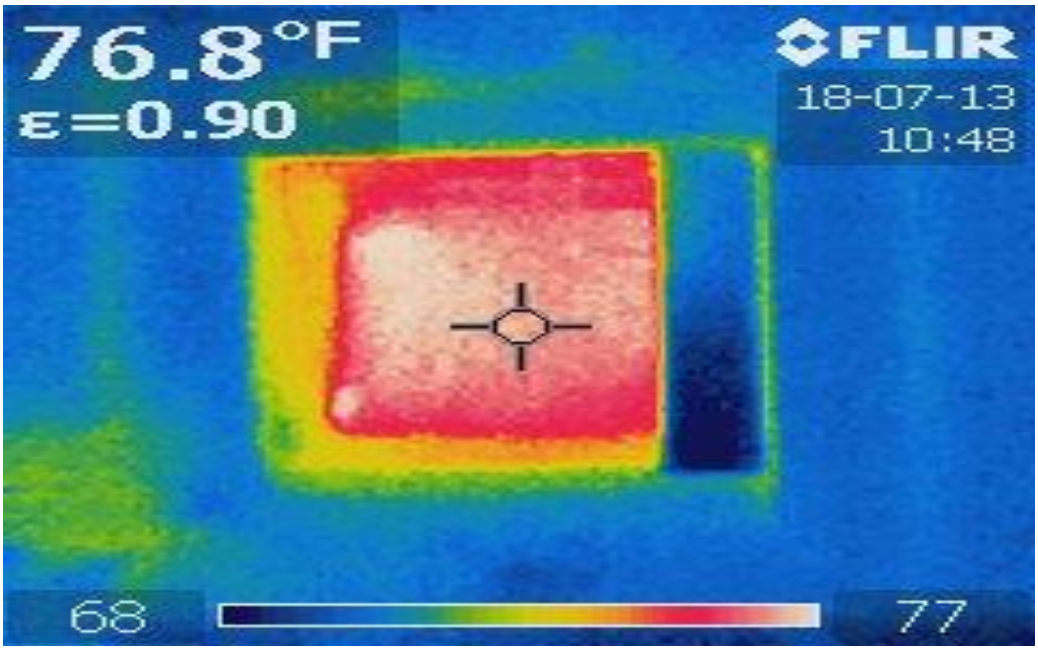
- Spectral Range: 7.5–13µm;
- Detector Type: Focal Plane Array (FPA), uncooled microbolometer 120 × 120 pixels;
- Image Frequency: 9 Hz;
- Accuracy: ± 3.6^0 F or ± 2% of reading;
- Thermal Sensitivity: 0.18 ^oF.

Mountain Consulting scanned the majority of the exterior walls and the interior wet walls of the Martin/Williamson Building. In areas where window damage was noted, either visually or by IR, moisture meter readings were collected utilizing a Delmhorst Instruments Model BD-8 moisture meter. The majority of the moisture meter readings were zero. It should be noted that this survey was conducted during a dry season of the year.

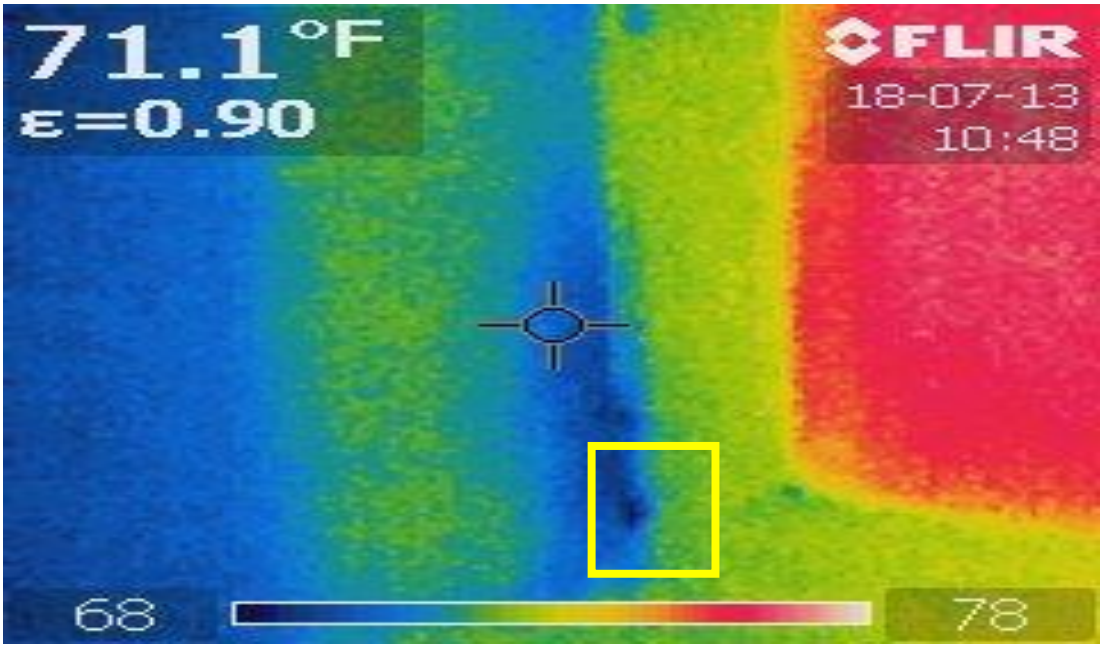
The following anomalies were noted in the Martin Building. No anomalies were noted in the Williamson Building.



Exterior Front of the Martin Building.



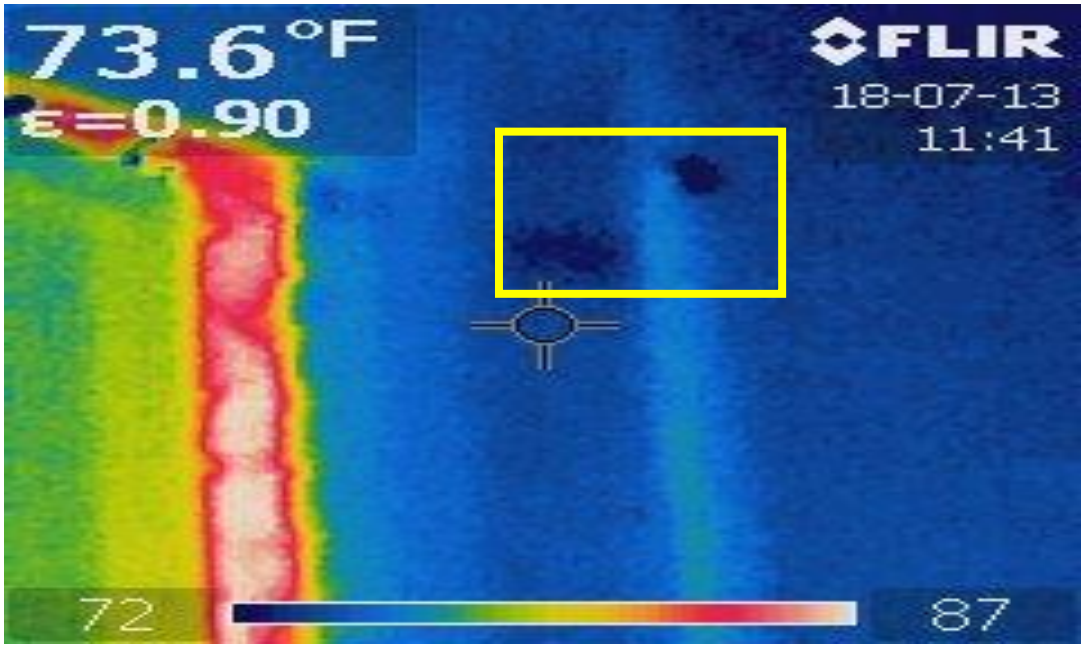
Martin Building, Room 247, left widow taken from door to room.



Martin Building, Room 247, left widow, closeup.

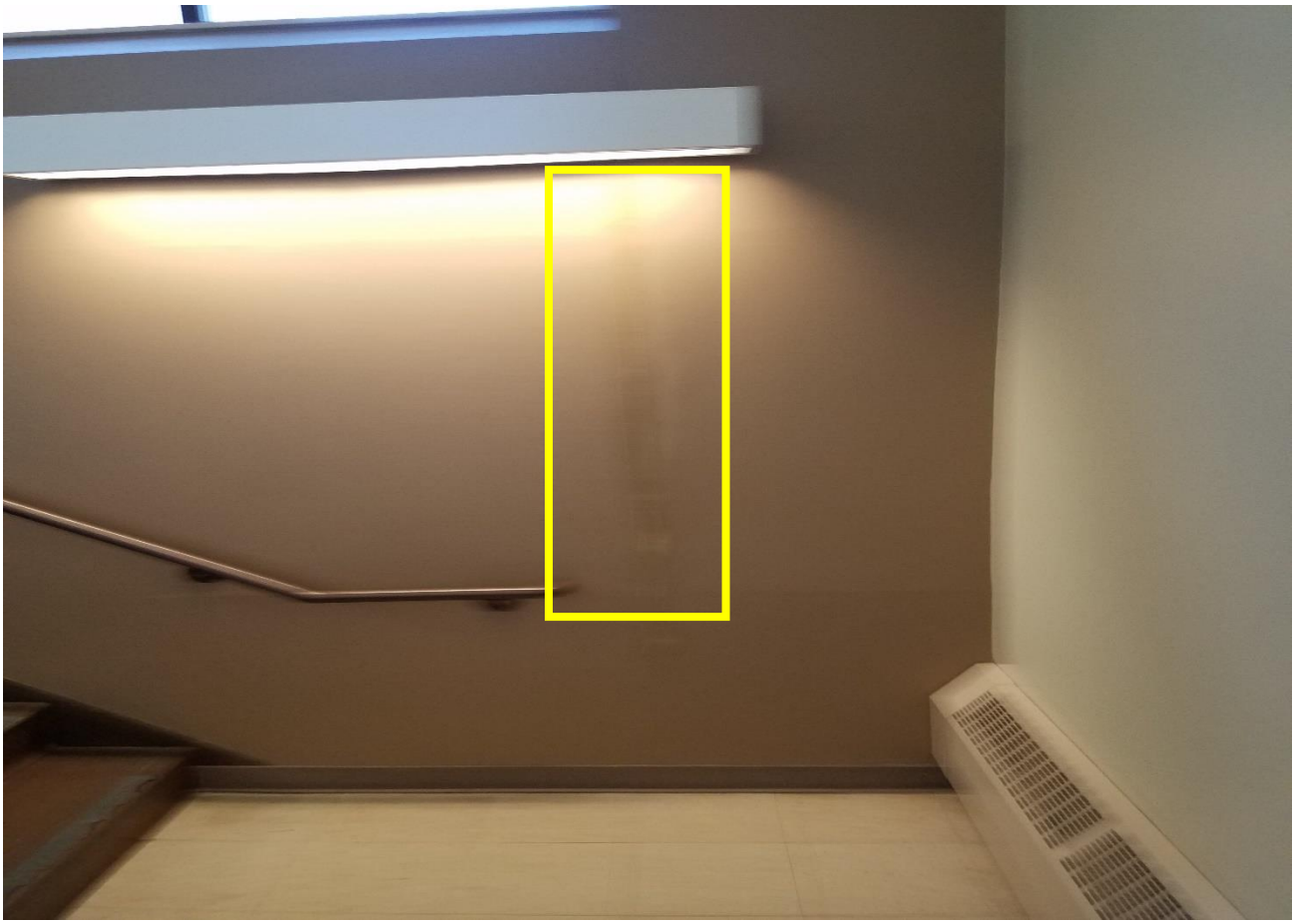
Anomaly noted in the lower corner of window. Seal to the window damage noted in this window.

Martin Building Room 247, window damage



Anomaly in Martin Building room 225N, left side of left window.

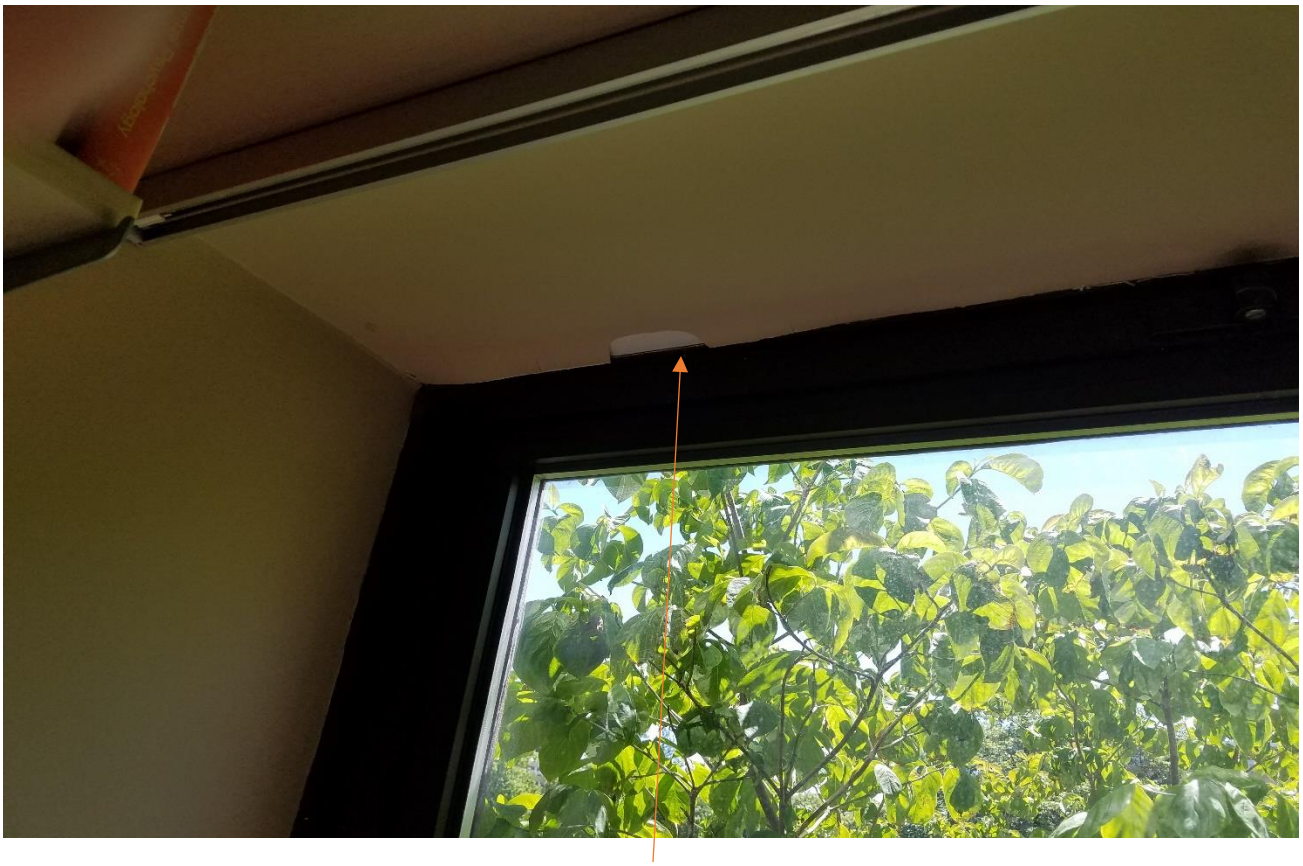
Moisture level in this area was zero percent. Additional investigation may be warranted.



Previous water damage noted in SW 1-2 Stairway on South Exterior Wall of the Martin Building.

No IR anomalies noted with this wall. Moisture level in this area was zero percent. Additional investigation may be warranted.

Damage to window wills in the Martin Building were noted in several rooms.



Typical window damage noted in Martin Building, Room 225J.

3.3 Ventilation

Face velocities at the room grilles were obtained throughout both buildings utilizing a TSI thermal anemometer. This instrument was utilized to gain information about the relative air movement in a room compared to a general manufacturer/industry recommendation and to other grilles in the same area. A minimum of four readings for each grille were obtained and an average reported.

The manufacturers of supply grilles recommend 500 to 800 feet minimum for a face velocity. These numbers take into account noise and air throw. Therefore, if the velocity is greater, there may be more noise but if it is too low, room circulation is inadequate. Imbalances often result in temperatures that are "too hot" or "too cold."

Some of the offices were noted to have partially obstructed grilles (Rooms M-237 and M-152D). Room M-237 appeared "stuffy," which may be due to the partially obstructed or poorly located grille. As a general rule, the air returns are through open air plenums above the ceiling tile. At least one of the slot hoods in the 310 Suites was not attached tightly at one end, resulting in a loss of flow through the slot. The following table identifies the results of the velocity testing.

Table 2: Air Velocity Results

LOCATION	VELOCITY (ft/min) [Note 1]	NOTES
Martin Building		
114A	***200***	
114C	700	
114D		
114	***350***	Some soiling at supply inlet
152D	750	Supply grille must be unobstructed/ Rug and carpet cleanliness must be maintained
152E	***190***	
152C	***1030***	
152	***400***	
152F	***1170***	
158	***200***	
247, Hall	450	
247	500	
249	700	Attention to floor cleanliness is needed
237	***400***	Room is noted to be "stuffy"
254	***180***	
254-8	***290***	Glare
254-7	***200***	
254-1	***190***	
254-5	***200***	
253	500	
238	430	Previous moisture runs noted on wall
251G	***1200***	Rug and carpet cleanliness must be maintained
228	***400***	
Williamson Building		
232	520	
310	500*	*The supply over the desk was 200 ft/min. Others were 500 f/min
311B	700	
314	***400***	Water penetration area, hall
3rd floor ladies room	**	** Air supply is door

Note 1 – Bold/Italics indicates Face velocities that are either lower/higher than standard practice and merit further evaluation.

3.4 Lighting

The lighting measurements were obtained at a height of approximately 29 inches (desk height) with an Extech 30 EasyView light meter. The results were compared to the IESNA handbook, the accepted standard for non-residential buildings. The IES recommended lighting levels are found in the following table.

Table 3: Recommended Foot Candle Levels by Area

IES Foot Candle (fc) Recommendations 2016	
Audio-visual Areas	20–50 fc
Conference Areas	20–70 fc
Corridors, Stairways	20(k) fc
General and Private Offices	50–100 fc
Lobbies, Lounges and Reception Areas	0–20 fc
Spaces with VDTs	75 fc
(k) or not less than 20 percent of the level in adjacent areas.	

As noted in the following table, several of the offices were noted to have less than adequate lighting for an office. This would include rooms 152D, 152F, 247,249, 237,254-8, 254-5, 253, 228, 251G, and 232. Room 228 was noted to be especially dim. Seven lamps were located in this room, but they were not switched on during the survey. It was also noted that the "can" lights in the 254 Suites created substantial glare.

Table 4: Foot Candle Levels

Location	Lighting Foot Candle (fc)	Notes
First Floor Hallway, Martin	24.8	
114A	60.5	
114C	62	
114	75	
152D	34.2	
152E	52.2	
152C	50	
152	50.4	
152F	***35***	
158	39 – 55.6	
247, Hall	19	
247	***40***	
249	***40.2***	
237	***45.9***	
254	70.1	
254-8	***14.2***	Glare
254-7		
254-1		
254-5	***13.9***	
253	***29.9***	
238	57.4	
251G	***39.2***	
228	***8***	
Williamson Building		
232	***40.1***	
310	60.2	
311B	50.1	
314	30.6	
3rd floor ladies room	60	

Note 1 – Bold/Italics indicates Lighting values that are less than the recommended standard.

3.5 Asbestos

During the site walk, Mountain Consulting was informed that a complete abatement of asbestos containing ceiling tiles had been conducted on the third-floor of the Williamson Hall Building by an outside contractor. However, there was still some concerns from the staff in this area of the building. Mountain Consulting collected ambient air quality control samples for asbestos fibers from within the third-floor area of the Williamson Hall Building.

Ambient Air Environmental Area Phase Contrast Microscopy (PCM) air monitoring was performed within two offices of the 3rd Floor of the Williamson Building. During the sampling Mountain Consulting collected a total of three PCM environmental area air samples.

PCM air samples were collected by NIOSH 582 certified personnel Todd Lewis, and employee of Mountain Consulting. The PCM air samples were submitted to Mountain Laboratories of Spokane Valley, Washington, for analysis. The PCM clearance air samples were analyzed according to NIOSH Method 7400, *Fibers, May 15, 1989 revision.* Mountain Laboratories participates in the Industrial Hygiene Proficiency Analytical Testing Program.

A summary of PCM air sample results is shown in the following table. Specific air sample information such as start and stop times, flow rates, etc. can be found attached to the PCM Air Sample Analysis Reports.

Table 5: Asbestos Air Sample Results

PCM Air Sample Results			
Date	**Sample #**	**Sample Type / Location**	**Result in fc**
07/13/2018	18-002.3-01	Williamson 3rd Floor, Room 314	<0.002
07/13/2018	18-002.3-02	Williamson 3rd Floor, Room 318	<0.002
07/13/2018	18-002.3-03	Field Blank	Not Applicable

All air sample collection equipment was calibrated against a secondary calibration device (rotometer) before and after sample intervals. The secondary standard is semi-annually calibrated against a primary standard (bubble burette).

4.0 CONCLUSIONS AND RECOMMENDATIONS

All findings are based strictly on information obtained from site observations during survey activities and from sample analysis. Consistent with our knowledge and understanding of environmental regulations, particularly as they apply to the potential liabilities associated with indoor air-quality issues, we present the following conclusions and recommendations.

Generally, the inspectors felt that the overall condition of the Martin/Williamson Building appeared to be good, however, the following conclusions and recommendation are provided for each topic address within this study.

4.1 Mold/Fungal

EWU requested assistance in responding to personnel complaints of mold exposure in the Martin/Williamson buildings. The university Environmental Health and Safety Staff reported finding some mold due to water pipe damage and leakage and, in another area, poor custodial practices. As stated by this staff, there have been water intrusions in the past due to roof leakage and steam condensate collection. Staff also noted that when problems are brought to their attention, they are remedied.

During a walk through and ventilation study on June 12, 2018, mold growth was not evident upon inspection. Mold growth can only occur if: (1) moisture is present, (2) there is a food source, and (3) there is a lack of air movement. If the moisture sources and wet materials have been removed, mold growth cannot occur or will remain dormant.

The air sampling that was conducted both in April and July only collected material and did not discriminate on whether it was living (viable) or non-living. These types of studies are useful as they can be used an indicator of an "atypical" concentrations of mold/fungi or other airborne aerosols that can be found in the environment (e.g., pollens, synthetic fibers, HVAC residues, combustion products). However, they cannot be used to evaluate whether the results are safe or unsafe. Other types of sampling can be conducted that culture viable mold. These studies are usually conducted when indicated by preliminary, non-viable testing and high spore counts of mold types that can proliferate in the indoors are present or if personnel respiratory symptoms are formally documented.

Presently, no U.S. Environmental Protection Agency (EPA) or other federal limits have been set for mold, so sampling cannot be used to compare to acceptable levels for compliance purposes. Prevention is the key to mitigating this indoor air quality problem.

An in-depth review was conducted of data collected in April and July. The data was compared between these two months and the results were not consistent. In other words, some of the mold types that were found in some rooms in April were not noted in July and some that were found in the same room in July were not found in April. Variability is normal in outdoor air as mold concentrations and types can change due to such factors as weather and time of day. This type of variability indoors indicates mold amplification (growth) is not occurring. Indoor overall gross fungal counts were very low in both months.

The results for both months were also compared to typical outdoor spore levels in the United States as well as by state, as compiled by EMLab P&K. The results of each month (April and July) were found to be comparable for the typical outdoor spore levels stated by EMLab P&K. Additionally, the concentrations of fungal spores in the building were compared to the concentrations obtained outside on the same day and were found to be much less, which indicates: (1) a minimal risk that indoor amplification is occurring, and (2) the air is filtered to the building. The fungal types found inside and outside were very similar but magnitudes were less inside.

The fungi that were consistently found in the results included ascospores (produced by morels, truffles, cup fungi, ergot and some micro-fungi), basidiospores (found in gardens, forests and woodlands and are spread via wind), rust (only infect living plants and are harmful pathogens to

agriculture, horticulture and forestry crops), smut (primarily affect grasses, including corn, sugarcane and sorghum), periconia (found in dead vegetation and is usually always associated with other fungi), and myxomycetes (slime molds and are found in forested regions). The above listed fungi are rarely found growing indoors but are ubiquitous. Since EW is located an area that is dry and has an abundance of agriculture, the findings described above would be within the realm of plausibility, especially considering they are outdoor contaminants that are coming in through a ventilation system and doors/windows.

The air inside the building is brought in from the outside, filtered and ducted throughout the building, or enters through open doors and windows. The air through doors and windows is not filtered so if particulate matter is on the outside, it is brought in with individuals on their shoes and clothing or on air currents. The filters that are utilized at this building have a minimum efficiency value that is the standard accepted for industrial/commercial buildings. Once particulate matter is on the inside, it will settle out and stay within the building, leaving on shoes or clothing or through disposal by way of good housekeeping.

4.2 Observations

1. EWU stated that the housekeeping policy in private office space is that it is to be cleaned by the occupant. They provide housekeeping for the classrooms and hallways. Several of the offices were noted to have rugs, cluttered/dusty or non-swept floors (Room 238 was dusty and cobwebbed; Room 228 had furniture that had just been brought in). There were also several offices that contained large amounts of "old" book at may also be contributing to the poor air quality. The overall fungal counts were found to be consistently less in the hallways than classrooms and offices.

2. The base of the air intake for Martin Hall is slightly above ground level and a tree obscures the intake. The courtyard area is unkempt with dry grass and vegetation growing next to the building. The other outdoor fungal counts were less in the other locations. Given the types of fungi that were found inside the building, it is very plausible the tree and plant detritus contribute substantially to the overall indoor counts.

3. During the initial inspection of June 12, 2018, the filters in Martin Hall intake were noted to be heavily loaded. Although the filters become more efficient collectors as they load, there is the possibility of air seepage whereby the filters will be by-passed.

Through anecdotal conversation, it was noted that many of the voiced concerns are not based on science. Although much information is available from the media, science-based information is still the most accurate. Information regarding health effects and mold and when one should be concerned can be found through the EPA (www.epa.gov/iaq), EM Lab P&K (https://emlab.com), NIOSH (https://www.cdc.gov/mold/default.htm), or the *Air-O-Cell Method Interpretation Guide, January, 2011*, (https://ehs.umass.edu/sites/default/files/IAQ%20Interpretation%20Document_0.pdf).

4.3 Recommendations

1. A thorough cleaning of the buildings should occur. This would include offices as well as classrooms, hallways and restrooms. Floors, carpets and rugs should be vacuumed/cleaned

on a regular basis. The number of old books should be limited in the office environments. Walls where water intrusion was noted (as in Room 238), should be washed.

2. The filtration systems for the building should be reviewed. EWU is located in an agricultural area that is dry and at many times of the year, dusty. It would be advantageous for the University to review the filter change schedule to ensure air seepage is not occurring and care is taken when changing out the filters so the dust is not entrained into the system.

3. To minimize the entrainment of plant detritus, trees and vegetation should be removed from the courtyard area. The area at least 10 feet from the wall where the air intakes are located should be graveled and maintained free of vegetation. An additional cage of wire mesh could be added in front of the intake to further minimize the opportunity of detritus becoming entrained into the system.

4. The University's current method of treating water intrusion is to respond when they are notified of a leak or possible leak. In most instances, this is very acceptable. However, those areas where there has been repeated water intrusion problems or areas where the risk of water intrusion is greater (water collection drains on flat roofs) should be inspected on a regular basis and added to the building PM list.

5. When the University has implemented the recommendations, additional sampling should be completed to document the efficacy of the recommendations. If the recommendations appear to be inadequate, an additional, in-depth study must occur.

4.4 Building Thermography

Several of the exterior windows of the Martin Building have shown signs of seal failure. The only thermographic anomalies identified during this survey were in Martin Hall in Rooms 247 and 225N, which would warrant further structural investigation. There was historical damage noted to a significant number of exterior windows for Martin Hall. We recommend that the existing windows be properly repaired and maintained or replaced.

Significant water damage from a historic water leak in the southwest stairwell of the Martin Building was observed on the south exterior wall. Although the moisture readings in this area indicated that the gypsum wall system was dry at this time, it is not unreasonable to assume that a future water leak will continue to damage the wall and pose a water intrusion hazard unless the point of intrusion is identified and repaired. We recommend that attention be paid to the flat roof deck to the south of this area. We also recommend that the damage gypsum be removed as "assumed" fungal contaminated materials.

4.5 Ventilation

Many of the offices were noted to have air supply grilles in ceiling corners. This may result in inadequate air throws due to wall encumbrance. A more detailed ventilation study, especially with the capabilities of visual air current inspection, may be beneficial. Objects obstructing the ceiling grilles or hindering air circulation should be moved. In addition, grilles should be inspected to verify a good, solid connection has been made between the grille and the ductwork.

The airflow within Room 237 of Martin Hall appears to have some source of blockage to the system. The system should be inspected within the immediate area to ensure that the system is free of a blockage.

The recommendation is made to the University, that due to their geographical location, it may be advantageous for the University to review their filter change schedule. Waiting six months between changes may not be adequate during the times of the year the outdoor particulate level is increased, such as during planting season in the spring and harvest in the fall, not to mention the dust storms in early summer. They may need to change the schedule to three times a year. The frequency of filter checks should be increased to determine if filter by pass is occurring. Additionally, to minimize the amount of material that is re-entrained into the system, care should be taken when changing out the filters.

4.6 Lighting

Many of the areas appear to have inadequate lighting. This may be remedied by changing the types of lights and/or their fixtures. The recessed "can" lights may not be the best choices, especially those that have a shiny interior finish. A reputable lighting vendor should be consulted to determine the best fixture choice for each situation.

4.7 Asbestos

The fiber levels within the 3rd floor of the Williamson Hall was below the limit of detection for the analytical method. The fiber levels within Williamson Hall at the time of sampling was very low and well within acceptable limits.

5.0 LIMITING CONDITIONS

During this indoor air quality assessment, Mountain Consulting Services/NV5 endeavored to observe, inventory, and sample (if appropriate) potentially regulated and or hazardous materials associated with the structure which may adversely affect the air quality. However, samples collected on July 12 and July 13, 2018, must be considered to be snapshots in time. We cannot identify the fungal levels prior to our inspections nor can we state with scientific certainty that the conditions today are what they will be in the future. Due to the nature of the survey, we also did not access all areas of the buildings and cannot make recommendations for any areas other than Martin/Williamson Halls.

STATEMENT OF PROFESSIONALISM

Mountain Consulting Services/NV5 hereby certifies that the samples collected during this Indoor Air Quality Assessment of the Martin/Williamson Halls on EWU campus were conducted/collected and analyzed utilizing professionally accepted protocols.

Inspector: Ronald A. Knutson Date: July 25, 2018

Ronald A. Knutson
President/Senior Industrial Hygienist
Mountain Consulting Services, LLC

Inspector: Dalene Zabel, CIH Date: July 25, 2018

Dalene Zabel,
Certified Industrial Hygienist
NV5

APPENDIX A
AIR-O-CELL SPORE TRAP LABORATORY REPORT

EMLab P&K
A TestAmerica Company

Report for:

Mr. Ron Knutson
Mountain Consulting Services, LLC
9922 E. Montgomery Drive, Ste. 9
Spokane, WA 99206

Regarding: Project: Martin/Williamson Building-EWL; IAQ Survey
EML ID: 1961901

Approved by:

Technical Manager
Joyce Van Ommen

Dates of Analysis:
Spore trap analysis: 07-17-2018 and 07-18-2018

Service SOPs: Spore trap analysis (EM-MY-S-1038)
AIHA-LAP, LLC accredited service, Lab ID #179768

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the items tested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

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EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Mountain Consulting Services, LLC
C/O: Mr. Ron Knutson
Re: Martin/Williamson Building-EWL; IAQ Survey

Date of Sampling: 07-12-2018
Date of Receipt: 07-16-2018
Date of Report: 07-18-2018

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	26172397: Rm 114A		26172384: Rm 152D		26172350: Rm 152E		26172349: Rm 158	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	9239932-1		9239933-1		9239934-1		9239935-1	
Analysis Date:	07/17/2018		07/17/2018		07/17/2018		07/17/2018	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria			2	27				
Ascospores			1	53				
Basidiospores	3	160	1	53	1	53	2	110
Botrytis								
Chaetomium								
Cladosporium			8	430				
Epicoccum			1	13				
Nigrospora								
Oidium								
Other brown								
Other colorless								
Penicillium/Aspergillus types†	8	430						
Pithomyces								
Rusts								
Smuts, Periconia, Myxomycetes	10	130	67	890	11	150	12	160
Stachybotrys								
Stemphylium								
Torula								
Trichocladium	1	13						
Ulocladium								
Background debris (1-4+)††	3+		3+		2+		2+	
Hyphal fragments/m3	13		53		< 13		13	
Pollen/m3	27		< 13		< 13		< 13	
Skin cells (1-4+)	< 1+		1+		1+		< 1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		730		1,500		200		270

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium, Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m^3 divided by the raw count, expressed in spores/m^3. The limit of detection is the analytical sensitivity (in spores/m^3) multiplied by the sample volume (in liters) divided by 1000 liters.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.
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Date of Sampling: 07-12-2018
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SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	26172409: Rm 249		26172368: Rm 247		26172345: Rm 228		26172377: Rm 237	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	9239936-1		9239937-1		9239938-1		9239939-1	
Analysis Date:	07/17/2018		07/17/2018		07/17/2018		07/17/2018	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria					1	13		
Ascospores			1	53				
Basidiospores	1	53	5	270	1	53	3	160
Botrytis								
Chaetomium								
Cladosporium			1	53	2	110	2	110
Epicoccum								
Nigrospora								
Oidium								
Other brown			1	13	1	13		
Other colorless								
Penicillium/Aspergillus types†					2	110	2	110
Pithomyces								
Rusts					2	27		
Smuts, Periconia, Myxomycetes	7	93	7	93	37	490	5	67
Stachybotrys					1	13		
Stemphylium								
Torula								
Trichocladium								
Ulocladium								
Background debris (1-4+)††	3+		3+		3+		3+	
Hyphal fragments/m3	< 13		13		13		13	
Pollen/m3	13		40		13		13	
Skin cells (1-4+)	1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		150		480		830		440

Comments:

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† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium, Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
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SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	26172347: Rm 253		26172374: Rm 254		26172366: Rm 258		26172344: Rm 238-Martin Hall	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	9239940-1		9239941-1		9239942-1		9239943-1	
Analysis Date:	07/17/2018		07/17/2018		07/17/2018		07/17/2018	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria							1	13
Ascospores								
Basidiospores	3	160	7	370	5	270	4	210
Botrytis								
Chaetomium							1	13
Cladosporium			1	53			8	430
Epicoccum								
Nigrospora			1	13				
Oidium								
Other brown			1	13			3	40
Other colorless								
Penicillium/Aspergillus types†			1	53	1	53		
Pithomyces								
Rusts								
Smuts, Periconia, Myxomycetes	15	200	3	40	11	150	101	1,300
Stachybotrys								
Stemphylium					1	13		
Torula							1	13
Trichocladium								
Ulocladium					1	13		
Background debris (1-4+)††	3+		3+		3+		3+	
Hyphal fragments/m3	13		< 13		13		40	
Pollen/m3	< 13		13		< 13		67	
Skin cells (1-4+)	< 1+		1+		1+		2+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		360		550		490		2,100

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium, Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
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Date of Sampling: 07-12-2018
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SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	26172348: Hallway SW end 2nd		26172429: Hallway NE 2nd Floor		26172372: Room 151G-Martin Hall		26172359: Room 140-Cust. rm	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	9239944-1		9239945-1		9239946-1		9239947-1	
Analysis Date:	07/17/2018		07/17/2018		07/17/2018		07/17/2018	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria			1	13				
Ascospores					1	53		
Basidiospores	6	320	3	160	5	270	3	160
Botrytis								
Chaetomium								
Cladosporium	1	53			3	160		
Epicoccum								
Nigrospora								
Oidium								
Other brown					3	40		
Other colorless								
Penicillium/Aspergillus types†	2	110			2	110		
Pithomyces								
Rusts								
Smuts, Periconia, Myxomycetes	12	160	8	110	33	440	6	80
Stachybotrys								
Stemphylium								
Torula								
Trichocladium								
Ulocladium								
Background debris (1-4+)††	3+		3+		3+		3+	
Hyphal fragments/m3	< 13		< 13		13		< 13	
Pollen/m3	13		13		13		< 13	
Skin cells (1-4+)	< 1+		< 1+		1+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		640		280		1,100		240

Comments:

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SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	26172355: Room 237-Attic		26172396: Hallway 1st Floor NE		26172373: Hallway 1st Floor SE		26172354: Room 232-Williamson Hall	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	9239948-1		9239949-1		9239950-1		9239951-1	
Analysis Date:	07/17/2018		07/17/2018		07/17/2018		07/17/2018	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Ascospores					2	110	1	53
Basidiospores	1	53	1	53	1	53		
Botrytis							1	13
Chaetomium								
Cladosporium	5	270	1	53	1	53	2	110
Epicoccum								
Nigrospora								
Oidium								
Other brown					1	13	1	13
Other colorless								
Penicillium/Aspergillus types†							2	110
Pithomyces								
Rusts							1	13
Smuts, Periconia, Myxomycetes	17	230			4	53	127	1,700
Stachybotrys							1	13
Stemphylium								
Torula								
Trichocladium								
Ulocladium								
Background debris (1-4+)††	3+		2+		2+		3+	
Hyphal fragments/m3	27		< 13		< 13		53	
Pollen/m3	< 13		< 13		< 13		< 13	
Skin cells (1-4+)	1+		< 1+		1+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		550		110		280		2,000

Comments:

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SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	26172393: Room 310- Williamson Hall		26172378: Room 34B- Williamson Hall		26172356: Rm 314- Williamson Hall		26172352: Rm 205- Martin Hall	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	9239952-1		9239953-1		9239954-1		9239955-1	
Analysis Date:	07/17/2018		07/17/2018		07/17/2018		07/17/2018	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Ascospores							1	53
Basidiospores	1	53						
Botrytis								
Chaetomium								
Cladosporium	2	110	2	110			1	53
Epicoccum								
Nigrospora								
Oidium								
Other brown								
Other colorless								
Penicillium/Aspergillus types†			2	110	2	110		
Pithomyces								
Rusts								
Smuts, Periconia, Myxomycetes	10	530	20	270	1	13	13	170
Stachybotrys								
Stemphylium								
Torula								
Trichocladium								
Background debris (1-4+)††	3+		3+		3+		3+	
Hyphal fragments/m3	< 13		13		< 13		< 13	
Pollen/m3	160		< 13		27		13	
Skin cells (1-4+)	< 1+		< 1+		2+		< 1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		690		480		120		280

Comments:

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SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	26172353: Womens RR-Williamson Hall		26172358: Hallway 3rd Floor-Williamson Hall		26172360: Hallway 3rd Floor-Williamson Hall		26172362: Stairwell between bldgs	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	9239956-1		9239957-1		9239958-1		9239959-1	
Analysis Date:	07/17/2018		07/17/2018		07/17/2018		07/17/2018	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Ascospores					1	53		
Basidiospores	2	110	1	53	2	110	3	160
Botrytis								
Chaetomium								
Cladosporium	1	53	1	53				
Epicoccum								
Nigrospora								
Oidium								
Other brown							1	13
Other colorless								
Penicillium/Aspergillus types†	3	160	3	160	3	160		
Pithomyces								
Rusts								
Smuts, Periconia, Myxomycetes	13	170	26	350			4	53
Stachybotrys								
Stemphylium								
Torula								
Trichocladium								
Ulocladium								
Background debris (1-4+)††	3+		3+		2+		2+	
Hyphal fragments/m3	< 13		< 13		< 13		< 13	
Pollen/m3	13		< 13		< 13		< 13	
Skin cells (1-4+)	2+		< 1+		< 1+		< 1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		490		610		320		230

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.
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SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	26172391: Hallway 2nd floor-Williamson		26172420: Outside courtyard		26172425: Outside south end		26172361: Outside east entry	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	9239960-1		9239961-1		9239962-1		9239963-1	
Analysis Date:	07/17/2018		07/18/2018		07/17/2018		07/17/2018	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria			9	120				
Ascospores			21	1,100	5	270	2	110
Basidiospores			22	1,200	20	1,100	10	530
Botrytis								
Chaetomium								
Cladosporium			65	3,500	4	210	1	53
Epicoccum			5	67				
Nigrospora								
Oidium			3	40				
Other brown			1	13	1	13	1	13
Other colorless			10	130				
Penicillium/Aspergillus types†			6	320	2	110	1	53
Pithomyces			3	40				
Rusts			10	130				
Smuts, Periconia, Myxomycetes	1	13	133	1,800	33	440	27	360
Stachybotrys								
Stemphylium								
Torula			2	27				
Trichocladium								
Ulocladium								
Background debris (1-4+)††	1+		3+		2+		2+	
Hyphal fragments/m3	13		< 13		< 13		< 13	
Pollen/m3	< 13		120		40		< 13	
Skin cells (1-4+)	< 1+		< 1+		< 1+		< 1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		13		8,400		2,100		1,100

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium, Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m^3 divided by the raw count, expressed in spores/m^3. The limit of detection is the analytical sensitivity (in spores/m^3) multiplied by the sample volume (in liters) divided by 1000 liters.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.
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§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Mountain Consulting Services, LLC
C/O: Mr. Ron Knutson
Re: Martin/Williamson Building-EWL; IAQ Survey

Date of Sampling: 07-12-2018
Date of Receipt: 07-16-2018
Date of Report: 07-18-2018

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	26172376: Hallway 2nd Floor-Williamson		26172357: Rm 224- Martin Hall		26172379: Rm 151A- Martin Hall		26172426: Hallway 1st Floor-Williamson	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	9239964-1		9239965-1		9239966-1		9239967-1	
Analysis Date:	07/17/2018		07/17/2018		07/17/2018		07/17/2018	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Ascospores					1	53		
Basidiospores	1	53	1	53				
Botrytis								
Chaetomium								
Cladosporium								
Epicoccum								
Nigrospora								
Oidium								
Other brown								
Other colorless								
Penicillium/Aspergillus types†								
Pithomyces								
Rusts								
Smuts, Periconia, Myxomycetes	1	13	2	27	13	170	1	13
Stachybotrys								
Stemphylium								
Torula			2	27				
Trichocladium								
Ulocladium								
Background debris (1-4+)††	1+		1+		3+		1+	
Hyphal fragments/m3	< 13		< 13		< 13		< 13	
Pollen/m3	< 13		40		< 13		13	
Skin cells (1-4+)	< 1+		< 1+		< 1+		< 1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		67		110		230		13

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium, Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
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For more information regarding analytical sensitivity, please contact QA by calling the laboratory.
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C/O: Mr. Ron Knutson
Re: Martin/Williamson Building-EWL; IAQ Survey

Date of Sampling: 07-12-2018
Date of Receipt: 07-16-2018
Date of Report: 07-18-2018

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	26172386: Hallway 1st Floor-Williamson		26172395: Outside-Martin Hall	
Comments (see below)	None		None	
Lab ID-Version‡:	9239968-1		9239969-1	
Analysis Date:	07/17/2018		07/17/2018	
	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria			1	13
Ascospores			3	160
Basidiospores			12	640
Botrytis				
Chaetomium				
Cladosporium	1	53	16	850
Epicoccum				
Nigrospora				
Oidium				
Other brown				
Other colorless			1	13
Penicillium/Aspergillus types†			2	110
Pithomyces				
Rusts				
Smuts, Periconia, Myxomycetes			61	810
Stachybotrys				
Stemphylium				
Torula				
Trichocladium				
Ulocladium			1	13
Background debris (1-4+)††	1+		3+	
Hyphal fragments/m3	< 13		40	
Pollen/m3	< 13		27	
Skin cells (1-4+)	< 1+		< 1+	
Sample volume (liters)	75		75	
§ TOTAL SPORES/m3		53		2,600

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.
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§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

EMLab P&K
A TestAmerica Company

Report for:

Mr. Ron Knutson
Mountain Consulting Services, LLC
9922 E. Montgomery Drive, Ste. 9
Spokane, WA 99206

Regarding: Project: Martin/Williamson Building-EWL; IAQ Survey
EML ID: 1961901

Approved by:

Technical Manager
Joyce Van Ommen

Dates of Analysis:
Spore trap analysis: 07-17-2018 and 07-18-2018

Service SOPs: Spore trap analysis (EM-MY-S-1038)
AIHA-LAP, LLC accredited service, Lab ID #179768

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the items tested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

EMLab P&K's LabServe® reporting system includes automated fail-safes to ensure that all AIHA-LAP, LLC quality requirements are met and notifications are added to reports when any quality steps remain pending.

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Date of Sampling: 07-12-2018
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SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	26172397: Rm 114A				26172384: Rm 152D				26172350: Rm 152E				26172349: Rm 158			
Comments (see below)	None				None				None				None			
Lab ID-Version‡:	9239932-1				9239933-1				9239934-1				9239935-1			
Analysis Date:	07/17/2018				07/17/2018				07/17/2018				07/17/2018			
Sample volume (liters)	75				75				75				75			
Background debris (1-4+)††	3+				3+				2+				2+			
	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%
Hyphal fragments	1	13	13	n/a	4	53	13	n/a					1	13	13	n/a
Pollen	2	27	13	n/a												
§ TOTAL FUNGAL SPORES	22	730	n/a	100	80	1,500	n/a	100	12	200	n/a	100	14	270	n/a	100
Alternaria					2	27	13	2								
Ascospores					1	53	53	4								
Basidiospores	3	160	53	22	1	53	53	4	1	53	53	27	2	110	53	40
Botrytis																
Chaetomium																
Cladosporium					8	430	53	29								
Epicoccum					1	13	13	1								
Nigrospora																
Oidium																
Penicillium/Aspergillus types	8	430	53	58												
Smuts, Periconia, Myxomycetes	10	130	13	18	67	890	13	61	11	150	13	73	12	160	13	60
Stachybotrys																
Trichocladium	1	13	13	2												

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

The analytical sensitivity/limit of detection is the Count/m^3 divided by the raw count, expressed in Count/m^3.

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Date of Sampling: 07-12-2018
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Date of Report: 07-18-2018

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	26172409: Rm 249				26172368: Rm 247				26172345: Rm 228				26172377: Rm 237			
Comments (see below)	None				None				None				None			
Lab ID-Version‡:	9239936-1				9239937-1				9239938-1				9239939-1			
Analysis Date:	07/17/2018				07/17/2018				07/17/2018				07/17/2018			
Sample volume (liters)	75				75				75				75			
Background debris (1-4+)††	3+				3+				3+				3+			
	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%
Hyphal fragments					1	13	13	n/a	1	13	13	n/a	1	13	13	n/a
Pollen	1	13	13	n/a	3	40	13	n/a	1	13	13	n/a	1	13	13	n/a
§ TOTAL FUNGAL SPORES	8	150	n/a	100	15	480	n/a	100	47	830	n/a	100	12	440	n/a	100
Alternaria									1	13	13	2				
Ascospores					1	53	53	11								
Basidiospores	1	53	53	36	5	270	53	56	1	53	53	6	3	160	53	36
Botrytis																
Chaetomium																
Cladosporium					1	53	53	11	2	110	53	13	2	110	53	24
Epicoccum																
Nigrospora																
Other brown					1	13	13	3	1	13	13	2				
Penicillium/Aspergillus types									2	110	53	13	2	110	53	24
Rusts									2	27	13	3				
Smuts, Periconia, Myxomycetes	7	93	13	64	7	93	13	19	37	490	13	60	5	67	13	15
Stachybotrys									1	13	13	2				

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

The analytical sensitivity/limit of detection is the Count/m^3 divided by the raw count, expressed in Count/m^3.

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Date of Sampling: 07-12-2018
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SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	26172347: Rm 253				26172374: Rm 254				26172366: Rm 258				26172344: Rm 238-Martin Hall			
Comments (see below)	None				None				None				None			
Lab ID-Version‡:	9239940-1				9239941-1				9239942-1				9239943-1			
Analysis Date:	07/17/2018				07/17/2018				07/17/2018				07/17/2018			
Sample volume (liters)	75				75				75				75			
Background debris (1-4+)††	3+				3+				3+				3+			
	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%
Hyphal fragments	1	13	13	n/a					1	13	13	n/a	3	40	13	n/a
Pollen					1	13	13	n/a					5	67	13	n/a
§ TOTAL FUNGAL SPORES	18	360	n/a	100	14	550	n/a	100	19	490	n/a	100	119	2,100	n/a	100
Alternaria													1	13	13	1
Ascospores																
Basidiospores	3	160	53	44	7	370	53	68	5	270	53	54	4	210	53	10
Chaetomium													1	13	13	1
Cladosporium					1	53	53	10					8	430	53	21
Nigrospora					1	13	13	2								
Other brown					1	13	13	2					3	40	13	2
Penicillium/Aspergillus types					1	53	53	10	1	53	53	11				
Smuts, Periconia, Myxomycetes	15	200	13	56	3	40	13	7	11	150	13	30	101	1,300	13	65
Stachybotrys																
Stemphylium									1	13	13	3				
Torula													1	13	13	1
Ulocladium									1	13	13	3				

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

The analytical sensitivity/limit of detection is the Count/m^3 divided by the raw count, expressed in Count/m^3.

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Re: Martin/Williamson Building-EWL; IAQ Survey

Date of Sampling: 07-12-2018
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Date of Report: 07-18-2018

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	26172348: Hallway SW end 2nd				26172429: Hallway NE 2nd Floor				26172372: Room 151G-Martin Hall				26172359: Room 140-Cust. rm			
Comments (see below)	None				None				None				None			
Lab ID-Version‡:	9239944-1				9239945-1				9239946-1				9239947-1			
Analysis Date:	07/17/2018				07/17/2018				07/17/2018				07/17/2018			
Sample volume (liters)	75				75				75				75			
Background debris (1-4+)††	3+				3+				3+				3+			
	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%
Hyphal fragments									1	13	13	n/a				
Pollen	1	13	13	n/a	1	13	13	n/a	1	13	13	n/a				
§ TOTAL FUNGAL SPORES	21	640	n/a	100	12	280	n/a	100	47	1,100	n/a	100	9	240	n/a	100
Alternaria					1	13	13	5								
Ascospores									1	53	53	5				
Basidiospores	6	320	53	50	3	160	53	57	5	270	53	25	3	160	53	67
Botrytis																
Chaetomium																
Cladosporium	1	53	53	8					3	160	53	15				
Epicoccum																
Nigrospora																
Oidium																
Other brown									3	40	13	4				
Penicillium/Aspergillus types	2	110	53	17					2	110	53	10				
Smuts, Periconia, Myxomycetes	12	160	13	25	8	110	13	38	33	440	13	41	6	80	13	33
Stachybotrys																

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

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Re: Martin/Williamson Building-EWL; IAQ Survey

Date of Sampling: 07-12-2018
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SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	26172355: Room 237-Attic				26172396: Hallway 1st Floor NE				26172373: Hallway 1st Floor SE				26172354: Room 232-Williamson Hall			
Comments (see below)	None				None				None				None			
Lab ID-Version‡:	9239948-1				9239949-1				9239950-1				9239951-1			
Analysis Date:	07/17/2018				07/17/2018				07/17/2018				07/17/2018			
Sample volume (liters)	75				75				75				75			
Background debris (1-4+)††	3+				2+				2+				3+			
	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%
Hyphal fragments	2	27	13	n/a									4	53	13	n/a
Pollen																
§ TOTAL FUNGAL SPORES	23	550	n/a	100	2	110	n/a	100	9	280	n/a	100	136	2,000	n/a	100
Alternaria																
Ascospores									2	110	53	38	1	53	53	3
Basidiospores	1	53	53	10	1	53	53	50	1	53	53	19				
Botrytis													1	13	13	1
Chaetomium																
Cladosporium	5	270	53	49	1	53	53	50	1	53	53	19	2	110	53	5
Epicoccum																
Nigrospora																
Other brown									1	13	13	5	1	13	13	1
Penicillium/Aspergillus types													2	110	53	5
Rusts													1	13	13	1
Smuts, Periconia, Myxomycetes	17	230	13	41					4	53	13	19	127	1,700	13	84
Stachybotrys													1	13	13	1

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

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SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	26172393: Room 310-Williamson Hall				26172378: Room 34B-Williamson Hall				26172356: Rm 314-Williamson Hall				26172352: Rm 205- Martin Hall			
Comments (see below)	None				None				None				None			
Lab ID-Version‡:	9239952-1				9239953-1				9239954-1				9239955-1			
Analysis Date:	07/17/2018				07/17/2018				07/17/2018				07/17/2018			
Sample volume (liters)	75				75				75				75			
Background debris (1-4+)††	3+				3+				3+				3+			
	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%
Hyphal fragments					1	13	13	n/a								
Pollen	3	160	53	n/a					2	27	13	n/a	1	13	13	n/a
§ TOTAL FUNGAL SPORES	13	690	n/a	100	24	480	n/a	100	3	120	n/a	100	15	280	n/a	100
Alternaria																
Ascospores													1	53	53	19
Basidiospores	1	53	53	8												
Botrytis																
Chaetomium																
Cladosporium	2	110	53	15	2	110	53	22					1	53	53	19
Epicoccum																
Nigrospora																
Oidium																
Other brown																
Penicillium/Aspergillus types					2	110	53	22	2	110	53	89				
Smuts, Periconia, Myxomycetes	10	530	53	77	20	270	13	56	1	13	13	11	13	170	13	62
Stachybotrys																

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

The analytical sensitivity/limit of detection is the Count/m^3 divided by the raw count, expressed in Count/m^3.

*The detection limit/limit of detection (DL) per cubic meter (m3) has been rounded to two significant figures to reflect analytical precision.

††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

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§ Total Fungal Spores has been rounded to two significant figures to reflect analytical precision.

EMLab P&K
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Client: Mountain Consulting Services, LLC
C/O: Mr. Ron Knutson
Re: Martin/Williamson Building-EWL; IAQ Survey

Date of Sampling: 07-12-2018
Date of Receipt: 07-16-2018
Date of Report: 07-18-2018

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	26172353: Womens RR- Williamson Hall				26172358: Hallway 3rd Floor-Williamson Hall				26172360: Hallway 3rd Floor-Williamson Hall				26172362: Stairwell between bldgs			
Comments (see below)	None				None				None				None			
Lab ID-Version‡:	9239956-1				9239957-1				9239958-1				9239959-1			
Analysis Date:	07/17/2018				07/17/2018				07/17/2018				07/17/2018			
Sample volume (liters)	75				75				75				75			
Background debris (1-4+)††	3+				3+				2+				2+			
	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%
Hyphal fragments																
Pollen	1	13	13	n/a												
§ TOTAL FUNGAL SPORES	19	490	n/a	100	31	610	n/a	100	6	320	n/a	100	8	230	n/a	100
Alternaria																
Ascospores									1	53	53	17				
Basidiospores	2	110	53	22	1	53	53	9	2	110	53	33	3	160	53	71
Botrytis																
Chaetomium																
Cladosporium	1	53	53	11	1	53	53	9								
Epicoccum																
Nigrospora																
Other brown													1	13	13	6
Penicillium/Aspergillus types	3	160	53	32	3	160	53	26	3	160	53	50				
Smuts, Periconia, Myxomycetes	13	170	13	35	26	350	13	57					4	53	13	24
Stachybotrys																

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

The analytical sensitivity/limit of detection is the Count/m^3 divided by the raw count, expressed in Count/m^3.

*The detection limit/limit of detection (DL) per cubic meter (m3) has been rounded to two significant figures to reflect analytical precision.

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§ Total Fungal Spores has been rounded to two significant figures to reflect analytical precision.

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Date of Sampling: 07-12-2018
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Date of Report: 07-18-2018

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	26172391: Hallway 2nd floor-Williamson				26172420: Outside courtyard				26172425: Outside south end				26172361: Outside east entry			
Comments (see below)	None				None				None				None			
Lab ID-Version‡:	9239960-1				9239961-1				9239962-1				9239963-1			
Analysis Date:	07/17/2018				07/18/2018				07/17/2018				07/17/2018			
Sample volume (liters)	75				75				75				75			
Background debris (1-4+)††	1+				3+				2+				2+			
	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%
Hyphal fragments	1	13	13	n/a												
Pollen					9	120	13	n/a	3	40	13	n/a				
§ TOTAL FUNGAL SPORES	1	13	n/a	100	290	8,400	n/a	100	65	2,100	n/a	100	42	1,100	n/a	100
Alternaria					9	120	13	1								
Ascospores					21	1,100	53	13	5	270	53	13	2	110	53	10
Basidiospores					22	1,200	53	14	20	1,100	53	51	10	530	53	48
Chaetomium																
Cladosporium					65	3,500	53	41	4	210	53	10	1	53	53	5
Epicoccum					5	67	13	1								
Oidium					3	40	13	< 1								
Other brown					1	13	13	< 1	1	13	13	1	1	13	13	1
Other colorless					10	130	13	2								
Penicillium/Aspergillus types					6	320	53	4	2	110	53	5	1	53	53	5
Pithomyces					3	40	13	< 1								
Rusts					10	130	13	2								
Smuts, Periconia, Myxomycetes	1	13	13	100	133	1,800	13	21	33	440	13	21	27	360	13	32
Stachybotrys																
Torula					2	27	13	< 1								

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

The analytical sensitivity/limit of detection is the Count/m^3 divided by the raw count, expressed in Count/m^3.

*The detection limit/limit of detection (DL) per cubic meter (m3) has been rounded to two significant figures to reflect analytical precision.

††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

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Date of Report: 07-18-2018

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	26172376: Hallway 2nd Floor-Williamson				26172357: Rm 224- Martin Hall				26172379: Rm 151A- Martin Hall				26172426: Hallway 1st Floor-Williamson			
Comments (see below)	None				None				None				None			
Lab ID-Version‡:	9239964-1				9239965-1				9239966-1				9239967-1			
Analysis Date:	07/17/2018				07/17/2018				07/17/2018				07/17/2018			
Sample volume (liters)	75				75				75				75			
Background debris (1-4+)††	1+				1+				3+				1+			
	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%
Hyphal fragments																
Pollen					3	40	13	n/a					1	13	13	n/a
§ TOTAL FUNGAL SPORES	2	67	n/a	100	5	110	n/a	100	14	230	n/a	100	1	13	n/a	100
Alternaria																
Ascospores									1	53	53	24				
Basidiospores	1	53	53	80	1	53	53	50								
Botrytis																
Chaetomium																
Cladosporium																
Epicoccum																
Nigrospora																
Oidium																
Penicillium/Aspergillus types																
Smuts, Periconia, Myxomycetes	1	13	13	20	2	27	13	25	13	170	13	76	1	13	13	100
Stachybotrys																
Torula					2	27	13	25								

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

The analytical sensitivity/limit of detection is the Count/m^3 divided by the raw count, expressed in Count/m^3.

*The detection limit/limit of detection (DL) per cubic meter (m3) has been rounded to two significant figures to reflect analytical precision.

††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

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SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	26172386: Hallway 1st Floor-Williamson				26172395: Outside-Martin Hall			
Comments (see below)	None				None			
Lab ID-Version‡:	9239968-1				9239969-1			
Analysis Date:	07/17/2018				07/17/2018			
Sample volume (liters)	75				75			
Background debris (1-4+)††	1+				3+			
	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%
Hyphal fragments					3	40	13	n/a
Pollen					2	27	13	n/a
§ TOTAL FUNGAL SPORES	1	53	n/a	100	97	2,600	n/a	100
Alternaria					1	13	13	1
Ascospores					3	160	53	6
Basidiospores					12	640	53	24
Botrytis								
Chaetomium								
Cladosporium	1	53	53	100	16	850	53	33
Epicoccum								
Nigrospora								
Other colorless					1	13	13	1
Penicillium/Aspergillus types					2	110	53	4
Smuts, Periconia, Myxomycetes					61	810	13	31
Stachybotrys								
Ulocladium					1	13	13	1

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

The analytical sensitivity/limit of detection is the Count/m^3 divided by the raw count, expressed in Count/m^3.

*The detection limit/limit of detection (DL) per cubic meter (m3) has been rounded to two significant figures to reflect analytical precision.

††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

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Date of Sampling: 07-12-2018
Date of Receipt: 07-16-2018
Date of Report: 07-18-2018

MoldRANGE™, Local Climate; Extended Outdoor Comparison

Outdoor Location: 26172420, Outside courtyard

Fungi Identified	Outdoor data	Typical Outdoor Data for: July in Washington† EMLab Local Climate code¹ A Annual Temp, A Elev., B Rain, A Temp. Range (n‡=104)						Typical Outdoor Data for: The entire year in Washington† EMLab Local Climate code¹ A Annual Temp, A Elev., B Rain, A Temp. Range (n‡=905)					
Project zip code 99004	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	120	13	13	27	53	110	49	13	13	27	53	93	28
Bipolaris/Drechslera group	-	-	-	-	-	-	4	7	7	13	27	50	2
Chaetomium	-	-	-	-	-	-	4	7	13	13	23	40	6
Cladosporium	3,500	160	240	530	1,100	1,800	98	53	110	400	1,300	2,500	83
Curvularia	-	-	-	-	-	-	5	8	13	13	19	39	2
Epicoccum	67	-	-	-	-	-	18	7	13	13	40	65	13
Nigrospora	-	-	-	-	-	-	4	-	-	-	-	-	2
Other brown	13	7	9	22	40	53	42	7	13	24	53	53	30
Other colorless	130	-	-	-	-	-	12	9	13	22	53	53	6
Penicillium/Aspergillus types	320	53	110	270	590	900	92	53	53	160	480	840	84
Pithomyces	40	-	-	-	-	-	2	7	7	13	27	40	3
Stachybotrys	-	-	-	-	-	-	2	-	-	-	-	-	2
Stemphylium	-	-	-	-	-	-	4	-	-	-	-	-	2
Torula	27	-	-	-	-	-	7	13	13	13	53	66	4
Trichocladium	-	-	-	-	-	-	< 1	-	-	-	-	-	< 1
Ulocladium	-	-	-	-	-	-	4	-	-	-	-	-	2
Seldom found growing indoors**													
Ascospores	1,100	53	99	210	1,100	1,500	89	53	89	270	1,000	1,700	78
Basidiospores	1,200	160	270	710	2,400	4,200	> 99	53	130	530	1,900	4,100	91
Botrytis	-	-	-	-	-	-	10	7	13	27	53	80	4
Oidium	40	13	13	27	64	130	22	13	13	27	78	150	17
Rusts	130	13	13	20	53	67	35	13	13	26	53	100	18
Smuts, Periconia, Myxomycetes	1,800	110	200	700	1,400	2,800	94	13	27	160	1,000	2,000	67
§ TOTAL SPORES/m3	8,400												

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Date of Sampling: 07-12-2018
Date of Receipt: 07-16-2018
Date of Report: 07-18-2018

MoldRANGE™, Local Climate; Extended Outdoor Comparison

Outdoor Location: 26172425, Outside south end

Fungi Identified	Outdoor data	Typical Outdoor Data for: July in Washington† EMLab Local Climate code¹ A Annual Temp, A Elev., B Rain, A Temp. Range (n‡=104)						Typical Outdoor Data for: The entire year in Washington† EMLab Local Climate code¹ A Annual Temp, A Elev., B Rain, A Temp. Range (n‡=905)					
Project zip code 99004	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	-	13	13	27	53	110	49	13	13	27	53	93	28
Bipolaris/Drechslera group	-	-	-	-	-	-	4	7	7	13	27	50	2
Chaetomium	-	-	-	-	-	-	4	7	13	13	23	40	6
Cladosporium	210	160	240	530	1,100	1,800	98	53	110	400	1,300	2,500	83
Curvularia	-	-	-	-	-	-	5	8	13	13	19	39	2
Epicoccum	-	-	-	-	-	-	18	7	13	13	40	65	13
Nigrospora	-	-	-	-	-	-	4	-	-	-	-	-	2
Other brown	13	7	9	22	40	53	42	7	13	24	53	53	30
Other colorless	-	-	-	-	-	-	12	9	13	22	53	53	6
Penicillium/Aspergillus types	110	53	110	270	590	900	92	53	53	160	480	840	84
Pithomyces	-	-	-	-	-	-	2	7	7	13	27	40	3
Stachybotrys	-	-	-	-	-	-	2	-	-	-	-	-	2
Stemphylium	-	-	-	-	-	-	4	-	-	-	-	-	2
Torula	-	-	-	-	-	-	7	13	13	13	53	66	4
Trichocladium	-	-	-	-	-	-	< 1	-	-	-	-	-	< 1
Ulocladium	-	-	-	-	-	-	4	-	-	-	-	-	2
Seldom found growing indoors**													
Ascospores	270	53	99	210	1,100	1,500	89	53	89	270	1,000	1,700	78
Basidiospores	1,100	160	270	710	2,400	4,200	> 99	53	130	530	1,900	4,100	91
Botrytis	-	-	-	-	-	-	10	7	13	27	53	80	4
Oidium	-	13	13	27	64	130	22	13	13	27	78	150	17
Rusts	-	13	13	20	53	67	35	13	13	26	53	100	18
Smuts, Periconia, Myxomycetes	440	110	200	700	1,400	2,800	94	13	27	160	1,000	2,000	67
§ TOTAL SPORES/m3	2,100												

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Date of Sampling: 07-12-2018
Date of Receipt: 07-16-2018
Date of Report: 07-18-2018

MoldRANGE™, Local Climate; Extended Outdoor Comparison

Outdoor Location: 26172361, Outside east entry

Fungi Identified	Outdoor data	Typical Outdoor Data for: July in Washington† EMLab Local Climate code¹ A Annual Temp, A Elev., B Rain, A Temp. Range (n‡=104)						Typical Outdoor Data for: The entire year in Washington† EMLab Local Climate code¹ A Annual Temp, A Elev., B Rain, A Temp. Range (n‡=905)					
Project zip code 99004	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	-	13	13	27	53	110	49	13	13	27	53	93	28
Bipolaris/Drechslera group	-	-	-	-	-	-	4	7	7	13	27	50	2
Chaetomium	-	-	-	-	-	-	4	7	13	13	23	40	6
Cladosporium	53	160	240	530	1,100	1,800	98	53	110	400	1,300	2,500	83
Curvularia	-	-	-	-	-	-	5	8	13	13	19	39	2
Epicoccum	-	-	-	-	-	-	18	7	13	13	40	65	13
Nigrospora	-	-	-	-	-	-	4	-	-	-	-	-	2
Other brown	13	7	9	22	40	53	42	7	13	24	53	53	30
Other colorless	-	-	-	-	-	-	12	9	13	22	53	53	6
Penicillium/Aspergillus types	53	53	110	270	590	900	92	53	53	160	480	840	84
Pithomyces	-	-	-	-	-	-	2	7	7	13	27	40	3
Stachybotrys	-	-	-	-	-	-	2	-	-	-	-	-	2
Stemphylium	-	-	-	-	-	-	4	-	-	-	-	-	2
Torula	-	-	-	-	-	-	7	13	13	13	53	66	4
Trichocladium	-	-	-	-	-	-	< 1	-	-	-	-	-	< 1
Ulocladium	-	-	-	-	-	-	4	-	-	-	-	-	2
Seldom found growing indoors**													
Ascospores	110	53	99	210	1,100	1,500	89	53	89	270	1,000	1,700	78
Basidiospores	530	160	270	710	2,400	4,200	> 99	53	130	530	1,900	4,100	91
Botrytis	-	-	-	-	-	-	10	7	13	27	53	80	4
Oidium	-	13	13	27	64	130	22	13	13	27	78	150	17
Rusts	-	13	13	20	53	67	35	13	13	26	53	100	18
Smuts, Periconia, Myxomycetes	360	110	200	700	1,400	2,800	94	13	27	160	1,000	2,000	67
§ TOTAL SPORES/m3	1,100												

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Date of Sampling: 07-12-2018
Date of Receipt: 07-16-2018
Date of Report: 07-18-2018

MoldRANGE™, Local Climate; Extended Outdoor Comparison

Outdoor Location: 26172395, Outside-Martin Hall

Fungi Identified	Outdoor data	Typical Outdoor Data for: July in Washington† EMLab Local Climate code¹ A Annual Temp, A Elev., B Rain, A Temp. Range (n‡=104)						Typical Outdoor Data for: The entire year in Washington† EMLab Local Climate code¹ A Annual Temp, A Elev., B Rain, A Temp. Range (n‡=905)					
Project zip code 99004	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	13	13	13	27	53	110	49	13	13	27	53	93	28
Bipolaris/Drechslera group	-	-	-	-	-	-	4	7	7	13	27	50	2
Chaetomium	-	-	-	-	-	-	4	7	13	13	23	40	6
Cladosporium	850	160	240	530	1,100	1,800	98	53	110	400	1,300	2,500	83
Curvularia	-	-	-	-	-	-	5	8	13	13	19	39	2
Epicoccum	-	-	-	-	-	-	18	7	13	13	40	65	13
Nigrospora	-	-	-	-	-	-	4	-	-	-	-	-	2
Other brown	-	7	9	22	40	53	42	7	13	24	53	53	30
Other colorless	13	-	-	-	-	-	12	9	13	22	53	53	6
Penicillium/Aspergillus types	110	53	110	270	590	900	92	53	53	160	480	840	84
Pithomyces	-	-	-	-	-	-	2	7	7	13	27	40	3
Stachybotrys	-	-	-	-	-	-	2	-	-	-	-	-	2
Stemphylium	-	-	-	-	-	-	4	-	-	-	-	-	2
Torula	-	-	-	-	-	-	7	13	13	13	53	66	4
Trichocladium	-	-	-	-	-	-	< 1	-	-	-	-	-	< 1
Ulocladium	13	-	-	-	-	-	4	-	-	-	-	-	2
Seldom found growing indoors**													
Ascospores	160	53	99	210	1,100	1,500	89	53	89	270	1,000	1,700	78
Basidiospores	640	160	270	710	2,400	4,200	> 99	53	130	530	1,900	4,100	91
Botrytis	-	-	-	-	-	-	10	7	13	27	53	80	4
Oidium	-	13	13	27	64	130	22	13	13	27	78	150	17
Rusts	-	13	13	20	53	67	35	13	13	26	53	100	18
Smuts, Periconia, Myxomycetes	810	110	200	700	1,400	2,800	94	13	27	160	1,000	2,000	67
§ TOTAL SPORES/m3	2,600												

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MoldRANGE™, Local Climate; Extended Outdoor Comparison

[1]EMLab Local Climate codes are a climate classification scheme for statewide geographic areas. The MoldRANGE™ Local Climate report uses the sampling location zip code to identify the EMLab Local Climate code in that area. Using information available from the NOAA weather database, the EMLab Local Climate code sharpens the precision of the MoldRANGE™reporting system, providing more reliable estimates of the range and average concentrations of the different airborne fungal spore types for each region. Additional information on the EMLab Local Climate code system can be found on the last page of this report.

†The Typical Outdoor Data represents the typical outdoor spore levels across the state for the time period and EMLab Local Climate code indicated. The last column represents the frequency of occurrence. The very low, low, med, high, and very high values represent the 10, 20, 50, 80, and 90 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 20% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically and if not enough data is available to make a statistically meaningful assessment, it is indicated with a dash.

‡ n is the sample size used to calculate the MoldRANGE™ Local Climate data summarized in the table.

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

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Understanding EMLab Local Climate Codes

Outdoor airborne spore concentrations are strongly influenced by climate and weather patterns, often resulting in pronounced seasonal and diurnal cycles (Burge 1995). The seasonal climatic changes directly affect the growth cycle of plants, thereby influencing fungal growth, spore maturation, and release cycles. By evaluating outdoor spore concentrations across similar climatic zones rather than for the state as a whole, it is possible to provide a more representative estimate of typical outdoor spore levels and frequency of occurrence for different airborne fungal spore types in a given area.

The EMLab Local Climate code system is a novel and patent pending classification system that uses data from the NOAA - National Oceanic and Atmospheric Administration database to define unique climate regions by state. The following local climate variables, for each statewide zip code, are obtained from NOAA and assigned a letter code of A (above the statewide average for that variable) or B (below the statewide average for that variable):

1. Annual High Temperature
2. Elevation
3. Rainfall/Precipitation
4. Monthly Temperature Range

The result is a 4-character code assigned to each statewide zip code, referred to as the Local Climate Code. Below are some examples of decoded Local Climate Codes:

AAAA = Above avg. Annual High Temperature, Above avg. Elevation, Above avg. Rainfall/Precipitation, Above avg. Monthly Temperature Range
AABB = Above avg. Annual High Temperature, Above avg. Elevation, Below avg. Rainfall/Precipitation, Below avg. Monthly Temperature Range
BBAA = Below avg. Annual High Temperature, Below avg. Elevation, Above avg. Rainfall/Precipitation, Above avg. Monthly Temperature Range

The actual outdoor air sample data from matching local climate codes in each state are then compiled in a manner relating typical spore concentrations and frequency of occurrence.

The NOAA local climate variables were selected by mapping data points from a subset of approximately 145,000 weather and geographic database entries to over 80,000 outdoor spore trap samples with known zip codes and assessing them using orthogonal array experimental design techniques. The results were then compared to the typical ranges of spore types found when grouping zip codes using the Koppen-Geiger climatic classification system; a commonly used climatic system that provides an objective numerical definition in terms of climatic elements such as temperature, rainfall, and other seasonal characteristics . The EMLab Local Climate codes showed improved granularity and refinement of the zip code groupings, implying a better representation of the expected range of spore types to be found within an individual zip code.

The values on this report were calculated by obtaining the four variables listed above from the over 585 million data points of weather and geographic information available in the NOAA database, and determining the frequencies and percentile values of spore types by utilizing over 180,000 EMLab P&K outdoor spore trap samples with known zip codes.

This report groups statewide zip codes in relation to these EMLab Local Climate codes and summarizes MoldRANGE™ data by month and year within each EMLab Local Climate code.

References:

Burge, Harriet, A. Bioaerosols: Boca Raton: Lewis Publishers, pp. 163-171, 1995.

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MoldSCORE™: Spore Trap Report

Outdoor Sample: 26172420 Outside courtyard

Fungi Identified	Outdoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3
Generally able to grow indoors*			
Alternaria		9	120
Bipolaris/Drechslera group		ND	< 13
Chaetomium		ND	< 13
Cladosporium		65	3,500
Curvularia		ND	< 13
Epicoccum		5	67
Nigrospora		ND	< 13
Other brown		1	13
Other colorless		10	130
Penicillium/Aspergillus types†		6	320
Pithomyces		3	40
Stachybotrys		ND	< 13
Torula		2	27
Seldom found growing indoors**			
Ascospores		21	1,100
Basidiospores		22	1,200
Oidium		3	40
Rusts		10	130
Smuts, Periconia, Myxomycetes		133	1,800
Total			**8,427**

Location: 26172397 Rm 114A

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		8	430		162
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Trichocladium		1	13		105
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		3	160		106
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		10	130		100
Total			**733**	**Final MoldSCORE**	**162**

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MoldSCORE™: Spore Trap Report

Location: 26172384 Rm 152D

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		2	27		102
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		8	430		100
Curvularia		ND	< 13		100
Epicoccum		1	13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		1	53		100
Basidiospores		1	53		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		67	890		206
Total			**1,467**	**Final MoldSCORE**	**207**

Location: 26172350 Rm 152E

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		103
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		11	150		121
Total			**200**	**Final MoldSCORE**	**121**

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MoldSCORE™: Spore Trap Report

Location: 26172349 Rm 158

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		2	110		108
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		12	160		120
Total			**267**	**Final MoldSCORE**	**120**

Location: 26172409 Rm 249

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		103
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		7	93		112
Total			**147**	**Final MoldSCORE**	**112**

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MoldSCORE™: Spore Trap Report

Location: 26172368 Rm 247

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Other brown		1	13		105
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		1	53		100
Basidiospores		5	270		121
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		7	93		100
Total			**480**	**Final MoldSCORE**	**121**

Location: 26172345 Rm 228

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		1	13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		2	110		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Other brown		1	13		105
Penicillium/Aspergillus types†		2	110		113
Stachybotrys		1	13		121
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		100
Rusts		2	27		106
Smuts, Periconia, Myxomycetes		37	490		161
Total			**827**	**Final MoldSCORE**	**164**

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MoldSCORE™: Spore Trap Report

Location: 26172377 Rm 237

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		2	110		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		2	110		115
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		3	160		110
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		5	67		100
Total			**440**	**Final MoldSCORE**	**115**

Location: 26172347 Rm 253

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		3	160		112
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		15	200		124
Total			**360**	**Final MoldSCORE**	**124**

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MoldSCORE™: Spore Trap Report

Location: 26172374 Rm 254

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		100
Curvularia		ND	< 13		100
Nigrospora		1	13		105
Other brown		1	13		105
Penicillium/Aspergillus types†		1	53		105
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		7	370		131
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		3	40		100
Total			**547**	**Final MoldSCORE**	**131**

Location: 26172366 Rm 258

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		1	53		105
Stachybotrys		ND	< 13		100
Stemphylium		1	13		105
Torula		ND	< 13		100
Ulocladium		1	13		105
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		5	270		121
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		11	150		109
Total			**493**	**Final MoldSCORE**	**121**

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MoldSCORE™: Spore Trap Report

Location: 26172344 Rm 238-Martin Hall

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		1	13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		1	13		121
Cladosporium		8	430		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Other brown		3	40		115
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		1	13		102
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		4	210		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		101	1,300		243
Total			**2,067**	**Final MoldSCORE**	**248**

Location: 26172348 Hallway SW end 2nd

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		2	110		114
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		6	320		124
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		12	160		105
Total			**640**	**Final MoldSCORE**	**124**

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MoldSCORE™: Spore Trap Report

Location: 26172429 Hallway NE 2nd Floor

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		1	13		104
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		3	160		113
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		8	110		110
Total			**280**	**Final MoldSCORE**	**113**

Location: 26172372 Room 151G-Martin Hall

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		3	160		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Other brown		3	40		115
Penicillium/Aspergillus types†		2	110		111
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		1	53		100
Basidiospores		5	270		113
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		33	440		142
Total			**1,067**	**Final MoldSCORE**	**154**

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MoldSCORE™: Spore Trap Report

Location: 26172359 Room 140-Cust. rm

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		3	160		113
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		6	80		106
Total			**240**	**Final MoldSCORE**	**113**

Location: 26172355 Room 237-Attic

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		5	270		103
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		17	230		122
Total			**547**	**Final MoldSCORE**	**122**

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Client: Mountain Consulting Services, LLC
C/O: Mr. Ron Knutson
Re: Martin/Williamson Building-EWL; IAQ Survey

Date of Sampling: 07-12-2018
Date of Receipt: 07-16-2018
Date of Report: 07-18-2018

MoldSCORE™: Spore Trap Report

Location: 26172396 Hallway 1st Floor NE

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		101
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		104
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**107**	**Final MoldSCORE**	**104**

Location: 26172373 Hallway 1st Floor SE

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Other brown		1	13		105
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		2	110		129
Basidiospores		1	53		101
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		4	53		100
Total			**280**	**Final MoldSCORE**	**105**

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Date of Sampling: 07-12-2018
Date of Receipt: 07-16-2018
Date of Report: 07-18-2018

MoldSCORE™: Spore Trap Report

Location: 26172354 Room 232-Williamson Hall

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		2	110		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Other brown		1	13		104
Penicillium/Aspergillus types†		2	110		105
Stachybotrys		1	13		121
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		1	53		100
Basidiospores		ND	< 13		100
Botrytis		1	13		105
Rusts		1	13		100
Smuts, Periconia, Myxomycetes		127	1,700		278
Total			**2,013**	**Final MoldSCORE**	**278**

Location: 26172393 Room 310-Williamson Hall

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		2	110		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		10	530		173
Total			**693**	**Final MoldSCORE**	**173**

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MoldSCORE™: Spore Trap Report

Location: 26172378 Room 34B-Williamson Hall

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		2	110		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		2	110		115
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		20	270		133
Total			**480**	**Final MoldSCORE**	**133**

Location: 26172356 Rm 314-Williamson Hall

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		2	110		117
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		1	13		100
Total			**120**	**Final MoldSCORE**	**117**

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Date of Sampling: 07-12-2018
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MoldSCORE™: Spore Trap Report

Location: 26172352 Rm 205- Martin Hall

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		1	53		106
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		13	170		122
Total			**280**	**Final MoldSCORE**	**122**

Location: 26172353 Womens RR- Williamson Hall

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		3	160		122
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		2	110		104
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		13	170		113
Total			**493**	**Final MoldSCORE**	**122**

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Date of Sampling: 07-12-2018
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MoldSCORE™: Spore Trap Report

Location: 26172358 Hallway 3rd Floor-Williamson Hall

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		3	160		122
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		26	350		143
Total			**613**	**Final MoldSCORE**	**143**

Location: 26172360 Hallway 3rd Floor-Williamson Hall

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		3	160		124
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		1	53		104
Basidiospores		2	110		107
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**320**	**Final MoldSCORE**	**124**

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MoldSCORE™: Spore Trap Report

Location: 26172362 Stairwell between bldgs

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Other brown		1	13		105
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		3	160		114
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		4	53		101
Total			**227**	**Final MoldSCORE**	**114**

Location: 26172391 Hallway 2nd floor-Williamson

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		1	13		102
Total			**13**	**Final MoldSCORE**	**102**

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Date of Sampling: 07-12-2018
Date of Receipt: 07-16-2018
Date of Report: 07-18-2018

MoldSCORE™: Spore Trap Report

Location: 26172376 Hallway 2nd Floor-Williamson

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		105
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		1	13		100
Total			**67**	**Final MoldSCORE**	**105**

Location: 26172357 Rm 224- Martin Hall

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		2	27		111
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		104
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		2	27		101
Total			**107**	**Final MoldSCORE**	**112**

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Date of Sampling: 07-12-2018
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MoldSCORE™: Spore Trap Report

Location: 26172379 Rm 151A- Martin Hall

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		1	53		109
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		13	170		124
Total			**227**	**Final MoldSCORE**	**124**

Location: 26172426 Hallway 1st Floor-Williamson

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		1	13		102
Total			**13**	**Final MoldSCORE**	**102**

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Date of Sampling: 07-12-2018
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Date of Report: 07-18-2018

MoldSCORE™: Spore Trap Report

Location: 26172386 Hallway 1st Floor-Williamson

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		102
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**53**	**Final MoldSCORE**	**102**

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

†The spores of Aspergillus and Penicillium (and others such as Acremonium, Paecilomyces) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods.

‡Rated on a scale from 100 to 300. A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate likelihood of indoor fungal growth. MoldSCORE is NOT intended for wall cavity samples. It is intended for ambient air samples in residences. Using the analysis on other samples (like wall cavity samples) will lead to misleading results.

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MoldSCORE™: Spore Trap Report

Outdoor Sample: 26172425 Outside south end

Fungi Identified	Outdoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3
Generally able to grow indoors*			
Alternaria		ND	< 13
Bipolaris/Drechslera group		ND	< 13
Chaetomium		ND	< 13
Cladosporium		4	210
Curvularia		ND	< 13
Nigrospora		ND	< 13
Other brown		1	13
Penicillium/Aspergillus types†		2	110
Stachybotrys		ND	< 13
Torula		ND	< 13
Seldom found growing indoors**			
Ascospores		5	270
Basidiospores		20	1,100
Rusts		ND	< 13
Smuts, Periconia, Myxomycetes		33	440
Total			**2,107**

Location: 26172397 Rm 114A

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		8	430		161
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Trichocladium		1	13		105
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		3	160		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		10	130		100
Total			**733**	**Final MoldSCORE**	**161**

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MoldSCORE™: Spore Trap Report

Location: 26172384 Rm 152D

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		2	27		111
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		8	430		118
Curvularia		ND	< 13		100
Epicoccum		1	13		105
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		1	53		100
Basidiospores		1	53		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		67	890		207
Total			**1,467**	**Final MoldSCORE**	**214**

Location: 26172350 Rm 152E

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		11	150		121
Total			**200**	**Final MoldSCORE**	**121**

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Client: Mountain Consulting Services, LLC
C/O: Mr. Ron Knutson
Re: Martin/Williamson Building-EWL; IAQ Survey

Date of Sampling: 07-12-2018
Date of Receipt: 07-16-2018
Date of Report: 07-18-2018

MoldSCORE™: Spore Trap Report

Location: 26172349 Rm 158

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		2	110		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		12	160		121
Total			**267**	**Final MoldSCORE**	**121**

Location: 26172409 Rm 249

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		7	93		112
Total			**147**	**Final MoldSCORE**	**112**

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Date of Sampling: 07-12-2018
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MoldSCORE™: Spore Trap Report

Location: 26172368 Rm 247

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Other brown		1	13		104
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		1	53		100
Basidiospores		5	270		102
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		7	93		100
Total			**480**	**Final MoldSCORE**	**104**

Location: 26172345 Rm 228

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		1	13		105
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		2	110		102
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Other brown		1	13		103
Penicillium/Aspergillus types†		2	110		111
Stachybotrys		1	13		121
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		100
Rusts		2	27		111
Smuts, Periconia, Myxomycetes		37	490		162
Total			**827**	**Final MoldSCORE**	**167**

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MoldSCORE™: Spore Trap Report

Location: 26172377 Rm 237

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		2	110		104
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		2	110		114
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		3	160		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		5	67		100
Total			**440**	**Final MoldSCORE**	**114**

Location: 26172347 Rm 253

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		3	160		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		15	200		125
Total			**360**	**Final MoldSCORE**	**125**

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MoldSCORE™: Spore Trap Report

Location: 26172374 Rm 254

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		100
Curvularia		ND	< 13		100
Nigrospora		1	13		105
Other brown		1	13		104
Penicillium/Aspergillus types†		1	53		104
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		7	370		109
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		3	40		100
Total			**547**	**Final MoldSCORE**	**109**

Location: 26172366 Rm 258

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		1	53		104
Stachybotrys		ND	< 13		100
Stemphylium		1	13		105
Torula		ND	< 13		100
Ulocladium		1	13		105
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		5	270		101
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		11	150		109
Total			**493**	**Final MoldSCORE**	**119**

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Date of Sampling: 07-12-2018
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Date of Report: 07-18-2018

MoldSCORE™: Spore Trap Report

Location: 26172344 Rm 238-Martin Hall

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		1	13		105
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		1	13		121
Cladosporium		8	430		114
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Other brown		3	40		111
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		1	13		105
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		4	210		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		101	1,300		244
Total			**2,067**	**Final MoldSCORE**	**250**

Location: 26172348 Hallway SW end 2nd

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		2	110		112
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		6	320		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		12	160		105
Total			**640**	**Final MoldSCORE**	**112**

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Date of Report: 07-18-2018

MoldSCORE™: Spore Trap Report

Location: 26172429 Hallway NE 2nd Floor

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		1	13		105
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		3	160		101
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		8	110		110
Total			**280**	**Final MoldSCORE**	**115**

Location: 26172372 Room 151G-Martin Hall

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		3	160		103
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Other brown		3	40		113
Penicillium/Aspergillus types†		2	110		109
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		1	53		100
Basidiospores		5	270		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		33	440		143
Total			**1,067**	**Final MoldSCORE**	**153**

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Re: Martin/Williamson Building-EWL; IAQ Survey

Date of Sampling: 07-12-2018
Date of Receipt: 07-16-2018
Date of Report: 07-18-2018

MoldSCORE™: Spore Trap Report

Location: 26172359 Room 140-Cust. rm

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		3	160		104
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		6	80		106
Total			**240**	**Final MoldSCORE**	**106**

Location: 26172355 Room 237-Attic

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		5	270		114
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		17	230		123
Total			**547**	**Final MoldSCORE**	**123**

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MoldSCORE™: Spore Trap Report

Location: 26172396 Hallway 1st Floor NE

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		103
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**107**	**Final MoldSCORE**	**103**

Location: 26172373 Hallway 1st Floor SE

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		102
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Other brown		1	13		104
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		2	110		129
Basidiospores		1	53		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		4	53		100
Total			**280**	**Final MoldSCORE**	**104**

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Date of Report: 07-18-2018

MoldSCORE™: Spore Trap Report

Location: 26172354 Room 232-Williamson Hall

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		2	110		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Other brown		1	13		100
Penicillium/Aspergillus types†		2	110		101
Stachybotrys		1	13		121
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		1	53		100
Basidiospores		ND	< 13		100
Botrytis		1	13		105
Rusts		1	13		105
Smuts, Periconia, Myxomycetes		127	1,700		278
Total			**2,013**	**Final MoldSCORE**	**278**

Location: 26172393 Room 310-Williamson Hall

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		2	110		103
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		10	530		174
Total			**693**	**Final MoldSCORE**	**174**

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MoldSCORE™: Spore Trap Report

Location: 26172378 Room 34B-Williamson Hall

Fungi Identified	Indoor sample spores/m3 (<100 / 1K / 10K / >100K)	Raw count	Spores/ m3	MoldSCORE‡ (100 / 200 / 300) Score
Generally able to grow indoors*				
Alternaria		ND	< 13	100
Bipolaris/Drechslera group		ND	< 13	100
Chaetomium		ND	< 13	100
Cladosporium		2	110	104
Curvularia		ND	< 13	100
Nigrospora		ND	< 13	100
Penicillium/Aspergillus types†		2	110	114
Stachybotrys		ND	< 13	100
Torula		ND	< 13	100
Seldom found growing indoors**				
Ascospores		ND	< 13	100
Basidiospores		ND	< 13	100
Rusts		ND	< 13	100
Smuts, Periconia, Myxomycetes		20	270	134
Total			**480**	**Final MoldSCORE** **134**

Location: 26172356 Rm 314-Williamson Hall

Fungi Identified	Indoor sample spores/m3 (<100 / 1K / 10K / >100K)	Raw count	Spores/ m3	MoldSCORE‡ (100 / 200 / 300) Score
Generally able to grow indoors*				
Alternaria		ND	< 13	100
Bipolaris/Drechslera group		ND	< 13	100
Chaetomium		ND	< 13	100
Cladosporium		ND	< 13	100
Curvularia		ND	< 13	100
Nigrospora		ND	< 13	100
Penicillium/Aspergillus types†		2	110	117
Stachybotrys		ND	< 13	100
Torula		ND	< 13	100
Seldom found growing indoors**				
Ascospores		ND	< 13	100
Basidiospores		ND	< 13	100
Rusts		ND	< 13	100
Smuts, Periconia, Myxomycetes		1	13	100
Total			**120**	**Final MoldSCORE** **117**

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Date of Report: 07-18-2018

MoldSCORE™: Spore Trap Report

Location: 26172352 Rm 205- Martin Hall

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		102
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		1	53		107
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		13	170		122
Total			**280**	**Final MoldSCORE**	**122**

Location: 26172353 Womens RR- Williamson Hall

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		3	160		121
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		2	110		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		13	170		113
Total			**493**	**Final MoldSCORE**	**121**

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C/O: Mr. Ron Knutson
Re: Martin/Williamson Building-EWL; IAQ Survey

Date of Sampling: 07-12-2018
Date of Receipt: 07-16-2018
Date of Report: 07-18-2018

MoldSCORE™: Spore Trap Report

Location: 26172358 Hallway 3rd Floor-Williamson Hall

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		3	160		120
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		26	350		144
Total			**613**	**Final MoldSCORE**	**144**

Location: 26172360 Hallway 3rd Floor-Williamson Hall

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		3	160		123
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		1	53		105
Basidiospores		2	110		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**320**	**Final MoldSCORE**	**123**

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MoldSCORE™: Spore Trap Report

Location: 26172362 Stairwell between bldgs

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Other brown		1	13		105
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		3	160		104
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		4	53		101
Total			**227**	**Final MoldSCORE**	**106**

Location: 26172391 Hallway 2nd floor-Williamson

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		1	13		102
Total			**13**	**Final MoldSCORE**	**102**

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MoldSCORE™: Spore Trap Report

Location: 26172376 Hallway 2nd Floor-Williamson

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		102
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		1	13		100
Total			**67**	**Final MoldSCORE**	**102**

Location: 26172357 Rm 224- Martin Hall

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		2	27		111
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		2	27		101
Total			**107**	**Final MoldSCORE**	**112**

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MoldSCORE™: Spore Trap Report

Location: 26172379 Rm 151A- Martin Hall

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		1	53		110
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		13	170		124
Total			**227**	**Final MoldSCORE**	**124**

Location: 26172426 Hallway 1st Floor-Williamson

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		1	13		102
Total			**13**	**Final MoldSCORE**	**102**

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MoldSCORE™: Spore Trap Report

Location: 26172386 Hallway 1st Floor-Williamson

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		103
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**53**	**Final MoldSCORE**	**103**

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

†The spores of Aspergillus and Penicillium (and others such as Acremonium, Paecilomyces) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods.

‡Rated on a scale from 100 to 300. A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate likelihood of indoor fungal growth. MoldSCORE is NOT intended for wall cavity samples. It is intended for ambient air samples in residences. Using the analysis on other samples (like wall cavity samples) will lead to misleading results.

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MoldSCORE™: Spore Trap Report

Outdoor Sample: 26172361 Outside east entry

Fungi Identified	Outdoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3
Generally able to grow indoors*			
Alternaria		ND	< 13
Bipolaris/Drechslera group		ND	< 13
Chaetomium		ND	< 13
Cladosporium		1	53
Curvularia		ND	< 13
Nigrospora		ND	< 13
Other brown		1	13
Penicillium/Aspergillus types†		1	53
Stachybotrys		ND	< 13
Torula		ND	< 13
Seldom found growing indoors**			
Ascospores		2	110
Basidiospores		10	530
Rusts		ND	< 13
Smuts, Periconia, Myxomycetes		27	360
Total			**1,120**

Location: 26172397 Rm 114A

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		8	430		164
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Trichocladium		1	13		105
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		3	160		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		10	130		100
Total			**733**	**Final MoldSCORE**	**164**

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MoldSCORE™: Spore Trap Report

Location: 26172384 Rm 152D

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		2	27		111
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		8	430		125
Curvularia		ND	< 13		100
Epicoccum		1	13		105
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		1	53		100
Basidiospores		1	53		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		67	890		222
Total			**1,467**	**Final MoldSCORE**	**228**

Location: 26172350 Rm 152E

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		11	150		123
Total			**200**	**Final MoldSCORE**	**123**

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MoldSCORE™: Spore Trap Report

Location: 26172349 Rm 158

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		2	110		104
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		12	160		122
Total			**267**	**Final MoldSCORE**	**122**

Location: 26172409 Rm 249

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		101
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		7	93		113
Total			**147**	**Final MoldSCORE**	**113**

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MoldSCORE™: Spore Trap Report

Location: 26172368 Rm 247

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		103
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Other brown		1	13		104
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		1	53		111
Basidiospores		5	270		115
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		7	93		101
Total			**480**	**Final MoldSCORE**	**115**

Location: 26172345 Rm 228

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		1	13		105
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		2	110		106
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Other brown		1	13		103
Penicillium/Aspergillus types†		2	110		114
Stachybotrys		1	13		121
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		100
Rusts		2	27		111
Smuts, Periconia, Myxomycetes		37	490		166
Total			**827**	**Final MoldSCORE**	**172**

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MoldSCORE™: Spore Trap Report

Location: 26172377 Rm 237

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		2	110		106
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		2	110		116
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		3	160		105
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		5	67		100
Total			**440**	**Final MoldSCORE**	**116**

Location: 26172347 Rm 253

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		3	160		107
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		15	200		127
Total			**360**	**Final MoldSCORE**	**127**

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MoldSCORE™: Spore Trap Report

Location: 26172374 Rm 254

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		102
Curvularia		ND	< 13		100
Nigrospora		1	13		105
Other brown		1	13		104
Penicillium/Aspergillus types†		1	53		106
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		7	370		124
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		3	40		100
Total			**547**	**Final MoldSCORE**	**124**

Location: 26172366 Rm 258

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		1	53		106
Stachybotrys		ND	< 13		100
Stemphylium		1	13		105
Torula		ND	< 13		100
Ulocladium		1	13		105
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		5	270		115
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		11	150		112
Total			**493**	**Final MoldSCORE**	**122**

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Mountain Consulting Services, LLC
C/O: Mr. Ron Knutson
Re: Martin/Williamson Building-EWL; IAQ Survey

Date of Sampling: 07-12-2018
Date of Receipt: 07-16-2018
Date of Report: 07-18-2018

MoldSCORE™: Spore Trap Report

Location: 26172344 Rm 238-Martin Hall

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		1	13		105
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		1	13		121
Cladosporium		8	430		125
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Other brown		3	40		113
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		1	13		105
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		4	210		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		101	1,300		266
Total			**2,067**	**Final MoldSCORE**	**270**

Location: 26172348 Hallway SW end 2nd

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		102
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		2	110		115
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		6	320		116
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		12	160		109
Total			**640**	**Final MoldSCORE**	**116**

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Date of Sampling: 07-12-2018
Date of Receipt: 07-16-2018
Date of Report: 07-18-2018

MoldSCORE™: Spore Trap Report

Location: 26172429 Hallway NE 2nd Floor

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		1	13		105
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		3	160		109
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		8	110		112
Total			**280**	**Final MoldSCORE**	**117**

Location: 26172372 Room 151G-Martin Hall

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		3	160		108
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Other brown		3	40		113
Penicillium/Aspergillus types†		2	110		113
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		1	53		100
Basidiospores		5	270		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		33	440		149
Total			**1,067**	**Final MoldSCORE**	**159**

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Re: Martin/Williamson Building-EWL; IAQ Survey

Date of Sampling: 07-12-2018
Date of Receipt: 07-16-2018
Date of Report: 07-18-2018

MoldSCORE™: Spore Trap Report

Location: 26172359 Room 140-Cust. rm

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		3	160		110
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		6	80		107
Total			**240**	**Final MoldSCORE**	**110**

Location: 26172355 Room 237-Attic

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		5	270		116
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		17	230		126
Total			**547**	**Final MoldSCORE**	**126**

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Date of Sampling: 07-12-2018
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Date of Report: 07-18-2018

MoldSCORE™: Spore Trap Report

Location: 26172396 Hallway 1st Floor NE

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		103
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		103
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**107**	**Final MoldSCORE**	**103**

Location: 26172373 Hallway 1st Floor SE

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		103
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Other brown		1	13		104
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		2	110		138
Basidiospores		1	53		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		4	53		101
Total			**280**	**Final MoldSCORE**	**105**

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Date of Sampling: 07-12-2018
Date of Receipt: 07-16-2018
Date of Report: 07-18-2018

MoldSCORE™: Spore Trap Report

Location: 26172354 Room 232-Williamson Hall

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		2	110		105
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Other brown		1	13		102
Penicillium/Aspergillus types†		2	110		113
Stachybotrys		1	13		121
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		1	53		100
Basidiospores		ND	< 13		100
Botrytis		1	13		105
Rusts		1	13		105
Smuts, Periconia, Myxomycetes		127	1,700		288
Total			**2,013**	**Final MoldSCORE**	**288**

Location: 26172393 Room 310-Williamson Hall

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		2	110		106
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		10	530		177
Total			**693**	**Final MoldSCORE**	**177**

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Date of Report: 07-18-2018

MoldSCORE™: Spore Trap Report

Location: 26172378 Room 34B-Williamson Hall

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		2	110		106
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		2	110		115
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		20	270		136
Total			**480**	**Final MoldSCORE**	**136**

Location: 26172356 Rm 314-Williamson Hall

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		2	110		117
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		1	13		100
Total			**120**	**Final MoldSCORE**	**117**

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Date of Sampling: 07-12-2018
Date of Receipt: 07-16-2018
Date of Report: 07-18-2018

MoldSCORE™: Spore Trap Report

Location: 26172352 Rm 205- Martin Hall

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		103
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		1	53		115
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		13	170		124
Total			**280**	**Final MoldSCORE**	**124**

Location: 26172353 Womens RR- Williamson Hall

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		103
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		3	160		123
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		2	110		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		13	170		116
Total			**493**	**Final MoldSCORE**	**123**

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Date of Sampling: 07-12-2018
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Date of Report: 07-18-2018

MoldSCORE™: Spore Trap Report

Location: 26172358 Hallway 3rd Floor-Williamson Hall

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		102
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		3	160		123
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		26	350		147
Total			**613**	**Final MoldSCORE**	**147**

Location: 26172360 Hallway 3rd Floor-Williamson Hall

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		3	160		124
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		1	53		114
Basidiospores		2	110		103
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**320**	**Final MoldSCORE**	**124**

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MoldSCORE™: Spore Trap Report

Location: 26172362 Stairwell between bldgs

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Other brown		1	13		105
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		3	160		111
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		4	53		102
Total			**227**	**Final MoldSCORE**	**111**

Location: 26172391 Hallway 2nd floor-Williamson

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		1	13		102
Total			**13**	**Final MoldSCORE**	**102**

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MoldSCORE™: Spore Trap Report

Location: 26172376 Hallway 2nd Floor-Williamson

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		104
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		1	13		100
Total			**67**	**Final MoldSCORE**	**104**

Location: 26172357 Rm 224- Martin Hall

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		2	27		111
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		103
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		2	27		102
Total			**107**	**Final MoldSCORE**	**112**

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MoldSCORE™: Spore Trap Report

Location: 26172379 Rm 151A- Martin Hall

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		1	53		116
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		13	170		126
Total			**227**	**Final MoldSCORE**	**126**

Location: 26172426 Hallway 1st Floor-Williamson

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		1	13		102
Total			**13**	**Final MoldSCORE**	**102**

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Mountain Consulting Services, LLC
C/O: Mr. Ron Knutson
Re: Martin/Williamson Building-EWL; IAQ Survey

Date of Sampling: 07-12-2018
Date of Receipt: 07-16-2018
Date of Report: 07-18-2018

MoldSCORE™: Spore Trap Report

Location: 26172386 Hallway 1st Floor-Williamson

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		103
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**53**	**Final MoldSCORE**	**103**

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

†The spores of Aspergillus and Penicillium (and others such as Acremonium, Paecilomyces) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods.

‡Rated on a scale from 100 to 300. A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate likelihood of indoor fungal growth. MoldSCORE is NOT intended for wall cavity samples. It is intended for ambient air samples in residences. Using the analysis on other samples (like wall cavity samples) will lead to misleading results.

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Date of Sampling: 07-12-2018
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Date of Report: 07-18-2018

MoldSCORE™: Spore Trap Report

Outdoor Sample: 26172395 Outside-Martin Hall

Fungi Identified	Outdoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3
Generally able to grow indoors*			
Alternaria		1	13
Bipolaris/Drechslera group		ND	< 13
Chaetomium		ND	< 13
Cladosporium		16	850
Curvularia		ND	< 13
Nigrospora		ND	< 13
Other colorless		1	13
Penicillium/Aspergillus types†		2	110
Stachybotrys		ND	< 13
Torula		ND	< 13
Ulocladium		1	13
Seldom found growing indoors**			
Ascospores		3	160
Basidiospores		12	640
Rusts		ND	< 13
Smuts, Periconia, Myxomycetes		61	810
Total			**2,613**

Location: 26172397 Rm 114A

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300 Score
Generally able to grow indoors*				
Alternaria		ND	< 13	100
Bipolaris/Drechslera group		ND	< 13	100
Chaetomium		ND	< 13	100
Cladosporium		ND	< 13	100
Curvularia		ND	< 13	100
Nigrospora		ND	< 13	100
Penicillium/Aspergillus types†		8	430	162
Stachybotrys		ND	< 13	100
Torula		ND	< 13	100
Trichocladium		1	13	105
Seldom found growing indoors**				
Ascospores		ND	< 13	100
Basidiospores		3	160	100
Rusts		ND	< 13	100
Smuts, Periconia, Myxomycetes		10	130	100
Total			**733**	**Final MoldSCORE** **162**

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Date of Sampling: 07-12-2018
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Date of Report: 07-18-2018

MoldSCORE™: Spore Trap Report

Location: 26172384 Rm 152D

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		2	27		108
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		8	430		100
Curvularia		ND	< 13		100
Epicoccum		1	13		105
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		1	53		100
Basidiospores		1	53		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		67	890		183
Total			**1,467**	**Final MoldSCORE**	**190**

Location: 26172350 Rm 152E

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		11	150		118
Total			**200**	**Final MoldSCORE**	**118**

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Date of Sampling: 07-12-2018
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MoldSCORE™: Spore Trap Report

Location: 26172349 Rm 158

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		2	110		105
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		12	160		115
Total			**267**	**Final MoldSCORE**	**115**

Location: 26172409 Rm 249

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		102
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		7	93		109
Total			**147**	**Final MoldSCORE**	**109**

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Date of Sampling: 07-12-2018
Date of Receipt: 07-16-2018
Date of Report: 07-18-2018

MoldSCORE™: Spore Trap Report

Location: 26172368 Rm 247

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Other brown		1	13		105
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		1	53		110
Basidiospores		5	270		116
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		7	93		100
Total			**480**	**Final MoldSCORE**	**116**

Location: 26172345 Rm 228

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		1	13		104
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		2	110		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Other brown		1	13		105
Penicillium/Aspergillus types†		2	110		112
Stachybotrys		1	13		121
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		100
Rusts		2	27		111
Smuts, Periconia, Myxomycetes		37	490		146
Total			**827**	**Final MoldSCORE**	**153**

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Date of Sampling: 07-12-2018
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MoldSCORE™: Spore Trap Report

Location: 26172377 Rm 237

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		2	110		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		2	110		115
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		3	160		106
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		5	67		100
Total			**440**	**Final MoldSCORE**	**115**

Location: 26172347 Rm 253

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		3	160		108
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		15	200		118
Total			**360**	**Final MoldSCORE**	**118**

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Date of Sampling: 07-12-2018
Date of Receipt: 07-16-2018
Date of Report: 07-18-2018

MoldSCORE™: Spore Trap Report

Location: 26172374 Rm 254

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		100
Curvularia		ND	< 13		100
Nigrospora		1	13		105
Other brown		1	13		105
Penicillium/Aspergillus types†		1	53		105
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		7	370		125
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		3	40		100
Total			**547**	**Final MoldSCORE**	**125**

Location: 26172366 Rm 258

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		1	53		105
Stachybotrys		ND	< 13		100
Stemphylium		1	13		105
Torula		ND	< 13		100
Ulocladium		1	13		104
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		5	270		116
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		11	150		100
Total			**493**	**Final MoldSCORE**	**116**

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Date of Sampling: 07-12-2018
Date of Receipt: 07-16-2018
Date of Report: 07-18-2018

MoldSCORE™: Spore Trap Report

Location: 26172344 Rm 238-Martin Hall

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		1	13		101
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		1	13		121
Cladosporium		8	430		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Other brown		3	40		116
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		1	13		105
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		4	210		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		101	1,300		218
Total			**2,067**	**Final MoldSCORE**	**227**

Location: 26172348 Hallway SW end 2nd

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		2	110		113
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		6	320		117
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		12	160		100
Total			**640**	**Final MoldSCORE**	**117**

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Date of Sampling: 07-12-2018
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Date of Report: 07-18-2018

MoldSCORE™: Spore Trap Report

Location: 26172429 Hallway NE 2nd Floor

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		1	13		105
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		3	160		110
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		8	110		105
Total			**280**	**Final MoldSCORE**	**110**

Location: 26172372 Room 151G-Martin Hall

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		3	160		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Other brown		3	40		116
Penicillium/Aspergillus types†		2	110		110
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		1	53		100
Basidiospores		5	270		101
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		33	440		122
Total			**1,067**	**Final MoldSCORE**	**136**

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MoldSCORE™: Spore Trap Report

Location: 26172359 Room 140-Cust. rm

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		3	160		111
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		6	80		101
Total			**240**	**Final MoldSCORE**	**111**

Location: 26172355 Room 237-Attic

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		5	270		106
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		17	230		112
Total			**547**	**Final MoldSCORE**	**112**

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Date of Sampling: 07-12-2018
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MoldSCORE™: Spore Trap Report

Location: 26172396 Hallway 1st Floor NE

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		101
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		103
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**107**	**Final MoldSCORE**	**103**

Location: 26172373 Hallway 1st Floor SE

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Other brown		1	13		105
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		2	110		137
Basidiospores		1	53		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		4	53		100
Total			**280**	**Final MoldSCORE**	**105**

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Mountain Consulting Services, LLC
C/O: Mr. Ron Knutson
Re: Martin/Williamson Building-EWL; IAQ Survey

Date of Sampling: 07-12-2018
Date of Receipt: 07-16-2018
Date of Report: 07-18-2018

MoldSCORE™: Spore Trap Report

Location: 26172354 Room 232-Williamson Hall

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		2	110		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Other brown		1	13		105
Penicillium/Aspergillus types†		2	110		104
Stachybotrys		1	13		121
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		1	53		100
Basidiospores		ND	< 13		100
Botrytis		1	13		105
Rusts		1	13		105
Smuts, Periconia, Myxomycetes		127	1,700		264
Total			**2,013**	**Final MoldSCORE**	**265**

Location: 26172393 Room 310-Williamson Hall

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		2	110		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		10	530		161
Total			**693**	**Final MoldSCORE**	**161**

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Client: Mountain Consulting Services, LLC
C/O: Mr. Ron Knutson
Re: Martin/Williamson Building-EWL; IAQ Survey

Date of Sampling: 07-12-2018
Date of Receipt: 07-16-2018
Date of Report: 07-18-2018

MoldSCORE™: Spore Trap Report

Location: 26172378 Room 34B-Williamson Hall

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		2	110		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		2	110		114
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		20	270		124
Total			**480**	**Final MoldSCORE**	**124**

Location: 26172356 Rm 314-Williamson Hall

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		2	110		117
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		1	13		100
Total			**120**	**Final MoldSCORE**	**117**

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Client: Mountain Consulting Services, LLC
C/O: Mr. Ron Knutson
Re: Martin/Williamson Building-EWL; IAQ Survey

Date of Sampling: 07-12-2018
Date of Receipt: 07-16-2018
Date of Report: 07-18-2018

MoldSCORE™: Spore Trap Report

Location: 26172352 Rm 205- Martin Hall

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		1	53		114
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		13	170		117
Total			**280**	**Final MoldSCORE**	**117**

Location: 26172353 Womens RR- Williamson Hall

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		3	160		122
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		2	110		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		13	170		103
Total			**493**	**Final MoldSCORE**	**122**

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Client: Mountain Consulting Services, LLC
C/O: Mr. Ron Knutson
Re: Martin/Williamson Building-EWL; IAQ Survey

Date of Sampling: 07-12-2018
Date of Receipt: 07-16-2018
Date of Report: 07-18-2018

MoldSCORE™: Spore Trap Report

Location: 26172358 Hallway 3rd Floor-Williamson Hall

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		3	160		121
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		26	350		132
Total			**613**	**Final MoldSCORE**	**132**

Location: 26172360 Hallway 3rd Floor-Williamson Hall

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		3	160		123
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		1	53		113
Basidiospores		2	110		103
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**320**	**Final MoldSCORE**	**123**

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Client: Mountain Consulting Services, LLC
C/O: Mr. Ron Knutson
Re: Martin/Williamson Building-EWL; IAQ Survey

Date of Sampling: 07-12-2018
Date of Receipt: 07-16-2018
Date of Report: 07-18-2018

MoldSCORE™: Spore Trap Report

Location: 26172362 Stairwell between bldgs

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Other brown		1	13		105
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		3	160		111
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		4	53		100
Total			**227**	**Final MoldSCORE**	**111**

Location: 26172391 Hallway 2nd floor-Williamson

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		1	13		102
Total			**13**	**Final MoldSCORE**	**102**

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Client: Mountain Consulting Services, LLC
C/O: Mr. Ron Knutson
Re: Martin/Williamson Building-EWL; IAQ Survey

Date of Sampling: 07-12-2018
Date of Receipt: 07-16-2018
Date of Report: 07-18-2018

MoldSCORE™: Spore Trap Report

Location: 26172376 Hallway 2nd Floor-Williamson

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		104
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		1	13		100
Total			**67**	**Final MoldSCORE**	**104**

Location: 26172357 Rm 224- Martin Hall

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		2	27		111
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		103
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		2	27		100
Total			**107**	**Final MoldSCORE**	**111**

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
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Client: Mountain Consulting Services, LLC
C/O: Mr. Ron Knutson
Re: Martin/Williamson Building-EWL; IAQ Survey

Date of Sampling: 07-12-2018
Date of Receipt: 07-16-2018
Date of Report: 07-18-2018

MoldSCORE™: Spore Trap Report

Location: 26172379 Rm 151A- Martin Hall

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		1	53		116
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		13	170		120
Total			**227**	**Final MoldSCORE**	**120**

Location: 26172426 Hallway 1st Floor-Williamson

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		1	13		102
Total			**13**	**Final MoldSCORE**	**102**

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Client: Mountain Consulting Services, LLC
C/O: Mr. Ron Knutson
Re: Martin/Williamson Building-EWL; IAQ Survey

Date of Sampling: 07-12-2018
Date of Receipt: 07-16-2018
Date of Report: 07-18-2018

MoldSCORE™: Spore Trap Report

Location: 26172386 Hallway 1st Floor-Williamson

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		102
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**53**	**Final MoldSCORE**	**102**

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

†The spores of Aspergillus and Penicillium (and others such as Acremonium, Paecilomyces) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods.

‡Rated on a scale from 100 to 300. A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate likelihood of indoor fungal growth. MoldSCORE is NOT intended for wall cavity samples. It is intended for ambient air samples in residences. Using the analysis on other samples (like wall cavity samples) will lead to misleading results.

CHAIN OF CUSTODY

www.EMLabPK.com

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A TestAmerica Company

New Jersey: 3000 Lincoln Drive East, Suite A, Marlton, NJ 08053 * (866) 871-1984
Phoenix, AZ: 1501 West Knudson drive, Phoenix, AZ 85027 * (800) 651-4802
SSF, CA: 6000 Shoreline Court, Suite 205, South San Francisco, CA 94080 * (866) 888-6653

Weather	Fog	Rain	Snow	Wind	Clear
Level: None	☐	☐	☐	☐	
Light	☐	☐	☐	☐	
Moderate	☐	☐	☐	☐	
Heavy	☐	☐	☐	☐	☑

001961901

CONTACT INFORMATION

Co / Ci / Pl

Mountain Consulting Services
9922 E Montgomery Dr; Suite 9
Spokane Valley, WA. 99206
509-924-9236

Address:

Special Instructions: Please email results rKnudson@mountainconsulting llc.com

PROJECT INFORMATION

Project ID:	Martin/Williamson Building - EWU		
Project Description:	IAQ Survey		
Project Zip Code:	99004	Sampling Date & Time:	7-12-18
PO Number:	18-0023	Sampled By:	T. Lewis

TURN AROUND TIME CODES (TAT)

STD – Standard (DEFAULT)
ND – Next Business Day
SD – Same Business Day Rush
WH – Weekend / Holiday

Rushes received after 2 pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.

REQUESTED SERVICES

(see below)

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume / Area (as applicable)	Notes (Time of day, Temp, RH, etc.)
26172377	Rm 114A	ST	STD	75L	
26172384	Rm 152D				
26172350	Rm 152E				
26172345	Rm 158				
26172409	Rm 249				
26172368	Rm 247				
26172345	Rm 228				
26172377	Rm 237				
26172347	Rm 253				
26172374	Rm 254				
26172366	Rm - 2548				

Non-Culturable: Spore Trap	Non-Culturable: Tape Swat Bul	Fungi – Spore Trap Analysis	Spore Trap Analysis – Other particles	Direct Microscopic Exam (Qualitative)	Quantitative Spore Count Direct Exam	1-Media Surface Fungi (Genus ID + Asp. spp.)	2-Media Surface Fungi (Genus ID + Asp. spp.)	3-Media Surface Fungi (Genus ID + Asp. spp.)	Culturable Air Fungi (Genus ID + Asp. spp.)	Gram Stain & Counts (Culturable Air & Surface Bacteria)	Legionella culture	Total Coliform, E. coli (Presence/Absence)	Membrane Filtration (specify organism):	MPN Bacteria (specify organism):	QuantiTray – Sewage Screen	Other Requests: Asbestos Analysis – PCM Airborne Fiber Count (NIOSH 7400)	Asbestos Analysis – PLM (EPA method 600/R-93-116)	PCR (specify test):
☑	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
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SAMPLE TYPE CODES

BC – BioCassette ™	ST – Spore Trap: Zefon, Allergenco, Burkard ...	T – Tape	D – Dust
AS – Anderson		SW – Swab	SO – Soil
SAS – Surface Air Sampler	P – Potable Water	B – Bulk	
CP – Contact Plate	NP – Non-Potable Water	O – Other:	

RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME
Leigh Lewis	7-13-18		7/16/18 10:0

CHAIN OF CUSTODY

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Phoenix, AZ: 1501 West Knudsen drive, Phoenix, AZ 85027 * (800) 651-4802
SSF, CA: 6000 Shoreline Court, Suite 205, South San Francisco, CA 94080 * (866) 888-6653

Weather	Fog	Rain	Snow	Wind	Clear
Level: None	☐	☐	☐	☐	☑
Light	☐	☐	☐	☐	
Moderate	☐	☐	☐	☐	
Heavy	☐	☐	☐	☐	

001961901

CONTACT INFORMATION

Mountain Consulting Services
9922 E Montgomery Dr; Suite 9
Spokane Valley, WA. 99206
509-924-9236

Address:

Special Instructions: Please email results rKnutson@mountainconsultingllc.com

PROJECT INFORMATION

Project ID:	Martin/Williamson Building - EWU
Project Description:	IAQ Survey
Project Zip Code:	99004
Sampling Date & Time:	7-12-18
PO Number:	18-002.3
Sampled By:	T. Lewis

TURN AROUND TIME CODES (TAT)

- STD – Standard (DEFAULT)
- ND – Next Business Day
- SD – Same Business Day Rush
- WH – Weekend / Holiday

Rushes received after 2 pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.

REQUESTS – Non-Culturable: Spore Trap; Tape Swab Bulk; Bio Wa[illegible]

Analyses: Fungi – Spore Trap Analysis; Spore Trap Analysis – Other particles; Direct Microscopic Exam (Qualitative); Quantitative Spore Count Direct Exam; 1-Media Surface Fungi (Genus ID + *Asp.* spp.); 2-Media Surface Fungi (Genus ID + *Asp.* spp.); 3-Media Surface Fungi (Genus ID + *Asp.* spp.); Culturable Air Fungi (Genus ID + *Asp.* spp.); Gram Stain & Counts (Culturable Air & Surface Bacteria); Legionella culture; Total Coliform, *E. coli* (Presence/Absence); Membrane Filtration (specify organism): ; MPN Bacteria (specify organism): ; QuantiTray – Sewage Screen; Asbestos Analysis – PCM Airborne Fiber Count (NIOSH 7400); Asbestos Analysis – PLM (EPA method 600/R-93-116); PCR (specify test):

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume / Area (as applicable)	Notes (Time of day, Temp, RH, etc.)	Fungi – Spore Trap Analysis
26172344	Rm 238 Martin Hall	ST	STD	75L		☑
26172348	Hallway S.W. END 2nd	〃	〃	〃		〃 (line)
2617249	Hallway N.E. 2nd Floor	〃	〃	〃		〃 (line)
26172372	Room 151G Martin Hall	〃	〃	〃		〃 (line)
26172359	Room 140 - Cust. Rm	〃	〃	〃		〃 (line)
26172353	Room 237 - ATTIC	〃	〃	〃		〃 (line)
26172396	Hallway 1st Floor N.E.	〃	〃	〃		〃 (line)
26172373	Hallway 1st Floor S.E.	〃	〃	〃		〃 (line)
26172354	Room 232 Williamson Hall	〃	〃	〃		〃 (line)
26172393	Room 310 " "	〃	〃	〃		〃 (line)
26172378	Room 314B " "	〃	〃	〃		〃 (line)

SAMPLE TYPE CODES

BC – BioCassette ™	ST – Spore Trap: Zefon, Allergenco, Burkard ...	T – Tape	D – Dust
A1S – Anderson		SW – Swab	SO – Soil
SAS – Surface Air Sampler	P – Potable Water	B – Bulk	
CP – Contact Plate	NP – Non-Potable Water	O – Other:	

RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME
[signature]	7-13-18	[signature]	7/16/18 10:[illegible]

CHAIN OF CUSTODY

www.EMLabPK.com

EMLab P&K
A TestAmerica Company

New Jersey: 3000 Lincoln Drive East, Suite A, Marlton, NJ 08053 * (866) 871-1964
Phoenix, AZ: 1501 West Knudsen drive, Phoenix, AZ 85027 * (800) 651-4802
SSF, CA: 6000 Shoreline Court, Suite 205, South San Francisco, CA 94080 * (866) 888-6653

Weather	Fog	Rain	Snow	Wind	Clear
Level: None	☐	☐	☐	☐	☒
Light	☐	☐	☐	☐	
Moderate	☐	☐	☐	☐	
Heavy	☐	☐	☐	☐	

REQUESTED SERVICES
(Use checkboxes below)

001961901

Non-Culturable

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume / Area (as applicable)	Notes (Time of day, Temp, RH, etc.)
26172356	Rm 314 - Williamson Hall	ST	STD	75L	
26172352	Rm 205 - Martin Hall				
26172353	Commons R.R. Williamson Hall				
2617 2356	Hallway 3rd Floor - Williamson Hall				
2617 2360	Hallway " " "				
2617 2362	Stairwell Between BLDGS				
26172359	Hallway 2nd Floor Williamson				
2617 2440	OUTSIDE Courtyard				
2617 2435	OUTSIDE South END				
2617 2361	OUTSIDE East Entry				
26172376	Hallway 2nd Floor - Williamson				

Spore Trap | Tape Swab Bulk | BioCas Water, I | ests

Fungi – Spore Trap Analysis | Spore Trap Analysis – Other particles | Direct Microscopic Exam (Qualitative) | Quant/Valve Spore Count Direct Exam | 1-Media Surface Fungi (Genus ID + Asp. spp.) | 2-Media Surface Fungi (Genus ID + Asp. spp.) | 3-Media Surface Fungi (Genus ID + Asp. spp.) | Culturable Air Fungi (Genus ID + Asp. spp.) | Gram Stain & Counts (Culturable Air & Surface Bacter | Legionella culture | Total Coliform, E. coli (Presence/Absence) | Membrane Filtration (specify organism): | MPN Bacteria (specify organism): | QuantiTray – Sewage Screen | Asbestos Analysis – PCM Airborne Fiber Count (NIOSH 7 | Asbestos Analysis – PLM (EPA method 600/R-93-116) | PCR (specify test):

CONTACT INFORMATION

Mountain Consulting Services
9922 E Montgomery Dr; Suite 9
Spokane Valley, WA. 99206
509-924-9236

Address:

Special Instructions: Please email results.
rkeutson@mountainconsultingllc.com

PROJECT INFORMATION

Project ID:	Martin/Williamson Building - EWU		
Project Description:	DAQ Survey		
Project Zip Code:	99004	Sampling Date & Time:	7-12-18
PO Number:	18-002.3	Sampled By:	T. Lewis

TURN AROUND TIME CODES (TAT)

STD – Standard (DEFAULT)
ND – Next Business Day
SD – Same Business Day Rush
WH – Weekend / Holiday

Rushes received after 2 pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.

SAMPLE TYPE CODES			
BC – BioCassette ™	ST – Spore Trap: Zefon, Allergenco, Burkard ...	T – Tape	D – Dust
AIS – Anderson	P – Potable Water	SW – Swab	SO – Soil
SAS – Surface Air Sampler	NP – Non-Potable Water	B – Bulk	
CP – Contact Plate		O – Other:	

RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME
	7-13-18		7/16/18 10:00

CHAIN OF CUSTODY
www.EMLabPK.com

EMLab P&K
A TestAmerica Company

New Jersey: 3000 Lincoln Drive East, Suite A, Marlton, NJ 08053 * (866) 871-1984
Phoenix, AZ: 1501 West Knudson Drive, Phoenix, AZ 85027 * (800) 651-4802
SSF, CA: 6000 Shoreline Court, Suite 205, South San Francisco, CA 94080 * (866) 888-6653

Weather		Fog	Rain	Snow	Wind	Clear
Level	None	☐	☐	☐	☐	☒
	Light	☐	☐	☐	☐	
	Moderate	☐	☐	☐	☐	
	Heavy	☐	☐	☐	☐	

001961901

Mountain Consulting Services
9922 E Montgomery Dr; Suite 9
Spokane Valley, WA. 99206
509-924-9236

CONTACT INFORMATION

Address:

Special Instructions: Please email results rknutson@mountainconsultingllc.com

PROJECT INFORMATION			
Project ID:	Martin Williamson Building - EWU		
Project Description:	IAQ Survey		
Project Zip Code:	99004	Sampling Date & Time:	7-13-18
PO Number:	18-002.3	Sampled By:	T. Lewis

TURN AROUND TIME CODES (TAT)

- **STD** – Standard (DEFAULT)
- **ND** – Next Business Day
- **SD** – Same Business Day Rush
- **WH** – Weekend / Holiday

Rushes received after 2 pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume / Area (as applicable)	Notes (Time of day, Temp, RH, etc.)	Fungi – Spore Trap Analysis
26172357	Rm 224 - Martin Hall	ST	STD	75L		☒
26172375	Rm 151A " "	|	|	|		|
26172426	Hallway 1st Floor Williamson	|	|	|		|
26172386	Hallway 1st Floor Williamson	|	|	|		|
26172395	0415106 - Martin Hall	|	|	|		|

Requested Analyses

Non-Culturable — Spore Trap: Fungi – Spore Trap Analysis; Spore Trap Analysis – Other particles
Tape Swab Bulk: Direct Microscopic Exam (Qualitative); Quantitative Spore Count Direct Exam
BioCa Water: 1-Media Surface Fungi (Genus ID + *Asp.* spp.); 2-Media Surface Fungi (Genus ID + *Asp.* spp.); 3-Media Surface Fungi (Genus ID + *Asp.* spp.); Culturable Air Fungi (Genus ID + *Asp.* spp.); Gram Stain & Counts (Culturable Air & Surface Bacteria); *Legionella* culture; Total Coliform, *E. coli* (Presence/Absence); Membrane Filtration (specify organism); MPN Bacteria (specify organism); QuantiTray – Sewage Screen
Asbestos Analysis – PCM Airborne Fiber Count (NIOSH 7400); Asbestos Analysis – PLM (EPA method 600/R-93-116); PCR (specify test)

SAMPLE TYPE CODES			
BC – BioCassette ™	ST – Spore Trap: Zefon, Allergenco, Burkard ...	T – Tape	D – Dust
A1S – Anderson		SW – Swab	SO – Soil
SAS – Surface Air Sampler	P – Potable Water	B – Bulk	
CP – Contact Plate	NP – Non-Potable Water	O – Other:	

RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME
[signature]	7-13-18	[signature]	7/16/18 1000

By submitting this Chain of Custody, you agree to be bound by the terms and conditions set forth at http://www.emlab.com/s/main/serviceterms.html

APPENDIX B
ASBESTOS AIR SAMPLES ANALYSIS REPORTS

Mountain Laboratories

9922 East Montgomery Suite 13
Spokane Valley, WA 99206
(509) 922-1365 • Fax (509) 922-1380

July 16, 2018

Mountain Consulting Services, LLC
Sam Bailey
9922 E. Montgomery Avenue, Suite 9
Spokane Valley, WA 99206

Project: EWU- Martin & Williamson Halls
Project No: 18-002.3

Dear Mr. Bailey

This report contains results of air sample(s) submitted to us on July 13, 2018 in conjunction with your project. The air samples were analyzed for fiber content and concentration, fibers per square millimeter of filter area (f/mm²) and fibers per cubic centimeter of air sampled (f/cc) using the following methodology:

NIOSH method 7400, "Fibers", August 15, 1987 revision.

Mountain Laboratories participates in the Proficiency Analytical Testing (PAT) Program for air sample analysis, governed by the American Industrial Hygiene Association (AIHA).

This report contains a summary of the laboratory results, chain of custody information and any other sample specific information submitted by the customer. The invoice for this service will be submitted separately.

It has been our pleasure providing you with these analytical services. If you have any questions regarding this report, or if we can provide any additional services, please do not hesitate to call me at (509) 922-1365.

Sincerely,

Heidi L. McCarthy
Laboratory Manager
Mountain Laboratories
Mountain Laboratories NW, Inc.

Enclosure: 1023.5311

PCM ANALYSIS REPORT

Mountain Consulting Services, LLC
Sam Bailey
9922 E. Montgomery Avenue, Suite 9
Spokane Valley, WA 99206

Project: EWU- Martin & Williamson Halls
Project No: 18-002.3

Customer No: 1023

Test Method Niosh 7400

Customer Sample ID	Sample Type	Sample Date	Time (Min)	Flow (L/m)	Volume (Liters)	Fiber/ Fields	F/mm²	F/cc	Lab ID/Analyst Date Analyzed
18-002.3-1	OWA	7/13/2018	140	8.88	1243.2	1/100	1.274	<0.002	A18-5311 KM 7/16/2018
18-002.3-2	OWA	7/13/2018	142	8.88	1260.96	0.5/100	0.637	<0.002	A18-5312 KM 7/16/2018
18-002.3-3	FB	7/13/2018	N/A	N/A	N/A	0.5/100	0.637	N/A	A18-5313 KM 7/16/2018

18-002.3-1 Outside Work Area Sample taken, third floor, room 314.

18-002.3-2 Outside Work Area Sample taken, third floor, room 318.

18-002.3-3 Field Blank.

Results reflect blank samples if submitted.
Samples submitted by the customer for analysis. Mountain Laboratories, Mountain Laboratories NW, Inc., limits warranty to proper analysis methods and takes no responsibility for sample procurement.

Mountain Consulting Services, LLC — Air Sample Data Sheet

Date: 7-13-18 Project #: 18-0023 Project Title: Ewu - Martin & Williamson Halls

Rotometer #: HV-7 Calibration Date: 7-2-18 Analytical Method: NIOSH 7400

Collected By: Todd A. Lewis Analyzed By: Kate McCarthy ECA = 385 mm²

Signature: Todd A. Lewis Signature: Kaitlyn McCarthy Graticule Area = 0.00195

Comments:

Airborne Fiber Concentration = (Fibers/Fields) – Average Blank (Fibers/Fields) x 385 / 1000 x Flow Rate x Time x Graticule Area = F/CC

Sample #:	18-0023-1	Sample Location:	Williamson Hall	Notes:			
Pump #:		Description:	Third Floor Room 314				
Sample Type:	OWA						
Start Flow:	8.88	Time On:	10:15				
Stop Flow:	↓	Time Off:	12:35	Fibers/Field	F/mm²	F/CC	
Flow Rate:		Total Time Min:	140	1/100	1.274	<0.002	
AIB-5311		Total Vol. Liters:	1243.2				
Sample #:	18-0023-2	Sample Location:	Williamson Hall	Notes:			
Pump #:		Description:	Third Floor Room 318				
Sample Type:	OWA						
Start Flow:	8.88	Time On:	10:18				
Stop Flow:	↓	Time Off:	12:40	Fibers/Field	F/mm²	F/CC	
Flow Rate:		Total Time Min:	142	.5/100	0.637	<0.002	
AIB-5312		Total Vol. Liters:	1260.96				
Sample #:	18-0023-3	Sample Location:	Field Blank	Notes:			
Pump #:		Description:	30 Second Exposure				
Sample Type:	FB						
Start Flow:		Time On:	30:53				
Stop Flow:	N/A	Time Off:		Fibers/Field	F/mm²	F/CC	
Flow Rate:		Total Time Min:	N/A	.5/100	0.637	N/A	
AIB-5313		Total Vol. Liters:					
Sample #:		Sample Location:		Notes:			
Pump #:		Description:					
Sample Type:							
Start Flow:		Time On:					
Stop Flow:		Time Off:		Fibers/Field	F/mm²	F/CC	
Flow Rate:		Total Time Min:					
		Total Vol. Liters:					
Sample #:		Sample Location:		Notes:			
Pump #:		Description:					
Sample Type:							
Start Flow:		Time On:					
Stop Flow:		Time Off:		Fibers/Field	F/mm²	F/CC	
Flow Rate:		Total Time Min:					
		Total Vol. Liters:					

Sample Type Abbreviations: CL = Clearance, OWA = Outside Work Area, IWA = Inside Work Area, BAR = Environmental Barrier, PRE = Pre-Abatement, BZP = Breathing Zone Personal, STEL = Short Term Excursion Limit, FB = Field Blank, LB = Lab Blank

9922 Montgomery Suite 9 - Spokane, Washington 99206 • Phone (509) 924-9236 • Fax (509) 924-2287

Liz Templeton 7/13/18 1:30pm

APPENDIX C
CERTIFICATES AND ACCREDITATIONS

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 101890-0

Mountain Laboratories
Spokane Valley, WA

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Asbestos Fiber Analysis

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2017-10-01 through 2018-09-30
Effective Dates

DEPARTMENT OF COMMERCE * UNITED STATES OF AMERICA *

For the National Voluntary Laboratory Accreditation Program

NVLAP® National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

Mountain Laboratories
9922 East Montgomery, Suite 13
Spokane Valley, WA 99206
Ms. Heidi L. McCarthy
Phone: 509-922-1365 Fax: 509-922-1380
Email: heidi@mountainlaboratories.com

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 101890-0

Bulk Asbestos Analysis

Code	*Description*
18/A01	EPA -- Appendix E to Subpart E of Part 763 -- Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

For the National Voluntary Laboratory Accreditation Program

Effective 2017-10-01 through 2018-09-30

AIHA Laboratory Accreditation Programs, LLC

acknowledges that

EMLab P&K, LLC.

Schnitzer North Creek Office Center, 19515 North Creek Parkway N Suite 100, Bothell, WA 98011

Laboratory ID: 178599

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2005 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories* in the following:

LABORATORY ACCREDITATION PROGRAMS

☐	**INDUSTRIAL HYGIENE**	Accreditation Expires:
☐	**ENVIRONMENTAL LEAD**	Accreditation Expires:
✓	**ENVIRONMENTAL MICROBIOLOGY**	Accreditation Expires: May 01, 2020
☐	**FOOD**	Accreditation Expires:
☐	**UNIQUE SCOPES**	Accreditation Expires:

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached **Scope of Accreditation**. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2005 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached **Scope of Accreditation**. Please review the AIHA-LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

Beth Bair

Elizabeth Bair
Chairperson, Analytical Accreditation Board

Cheryl O. Morton

Cheryl O. Morton
Managing Director, AIHA Laboratory Accreditation Programs, LLC

Revision 16: 03/21/2018

Date Issued: 04/30/2018

AIHA
Laboratory Accreditation Programs, LLC

AIHA Laboratory Accreditation Programs, LLC
SCOPE OF ACCREDITATION

EMLab P&K, LLC.
Schnitzer North Creek Office Center
19515 North Creek Parkway N Suite 100, Bothell, WA 98011

Laboratory ID: **178599**
Issue Date: 04/30/2018

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or withdrawal of accreditation.

Environmental Microbiology Laboratory Accreditation Program (EMLAP)

Initial Accreditation Date: 07/01/2005

EMLAP Category	Field of Testing (FoT)	Method	Method Description *(for internal methods only)*
Fungal	Air - Direct Examination	EM-MY-S-1038	Preparation and Analysis of Spore Trap (Air) Samples for Fungal Spores, Other Biological and Non-Biological Particles
	Bulk - Direct Examination	EM-MY-S-1039	Preparation and Analysis of Tape, Swab, Wipe, Bulk and Dust - Soil Samples for Qualitative Direct Microscopic Examination
		EM-MY-S-1041	Preparation and Analysis of Tape, Swab, Wipe, Bulk and Dust - Soil Samples for Quantitative Direct Microscopic Examination
	Surface - Direct Examination	EM-MY-S-1039	Preparation and Analysis of Tape, Swab, Wipe, Bulk and Dust - Soil Samples for Qualitative Direct Microscopic Examination
		EM-MY-S-1041	Preparation and Analysis of Tape, Swab, Wipe, Bulk, and Dust - Soil Samples for Quantitative Dire Microscopic Examination

A complete listing of currently accredited Environmental Microbiology laboratories is available on the AIHA-LAP, LLC website at: http://www.aihaaccreditedlabs.org

ABIH®

american board of industrial hygiene®

organized to improve the practice of industrial hygiene
proclaims that

Dalene C. Zabel

having met all requirements of
education, experience and examination, and
ongoing maintenance,
is hereby certified in the

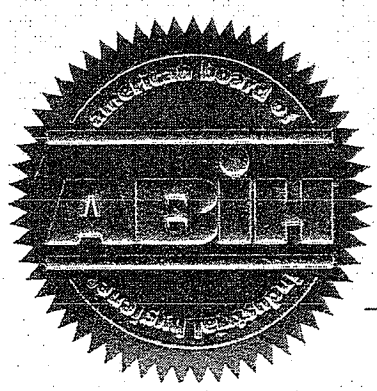
COMPREHENSIVE PRACTICE
of
INDUSTRIAL HYGIENE

and has the right to use the designations

CERTIFIED INDUSTRIAL HYGIENIST

CIH

Certificate Number	**5584 CP**
Awarded:	**July 15, 1992**
Expiration Date:	**December 1, 2018**



Mark B Fenn
Chair ABIH

Lynn C. O'Donnell
Executive Director ABIH

J Tech, Inc.
Industrial Hygiene Services

CERTIFICATE OF COMPLETION

This is to certify that

Todd A. Lewis

Social Security Number: XXX-XX-4910

Has attended and satisfactorily completed the 32 hour training requirements for the
NIOSH 582 – Sampling and Evaluating Airborne Asbestos Dust Equivalency Course
In accordance with OSHA 29CFR 1926.58 and 1910.1001

Richard A. Johnson, CIH
Instructor

THE AMERICAN BOARD OF INDUSTRIAL HYGIENE
INCORPORATED
CERTIFICATION NUMBER
5956 CP
EXPIRES
6-1-2010
PENNSYLVANIA - 1960
RICHARD A. JOHNSON, C.I.H.

Training Dates 24 - 27 April 2007
Certificate Number 7-00112.53.1

J Tech Industrial Hygiene Services, 2293 West Windermere Avenue, Coeur d' Alene, Idaho 83815 208-676-9965