

Report for:

Mr. Chad Johnson Eastern Washington University EH&S, 002 Martin Hall Cheney, WA 99004

Regarding:

Project: WLM 310-312 EML ID: 2307148

Approved by:

Operations Manager Joshua Cox Dates of Analysis:

Spore trap analysis: 12-03-2019

Service SOPs: Spore trap analysis (EM-MY-S-1038) AIHA-LAP, LLC accredited service, Lab ID #102297

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 samples as received. Sample air volume is supplied by the client.

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Client: Eastern Washington University

C/O: Mr. Chad Johnson Re: WLM 310-312

Date of Sampling: 11-14-2019 Date of Receipt: 11-29-2019 Date of Report: 12-03-2019

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	28133671: WLM 310			33652: M 310D	_	33651: M 312	28133648: WLM Outside	
Comments (see below)	None			lone		Vone	***************************************	A
Lab ID-Version‡:	1097	79470-1	9470-1 1097		10979474-1		1097	79476-1
Analysis Date:	12/0	3/2019	12/0	3/2019	12/0	3/2019	12/0	3/2019
·	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	1	13				•		
Ascospores					1	53		
Basidiospores							9	480
Chaetomium								
Cladosporium	1	53	1	53			18	440
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other colorless								
Penicillium/Aspergillus types†	3	160			4	210	7	370
Pithomyces								
Rusts								
Smuts, Periconia, Myxomycetes			6	80	1	13	6	80
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	1+		2+		2+		2+	
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		230		130		280		1,400

Comments: A) 13 of the raw count *Cladosporium* spores were present as a single clump.

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

The analytical sensitivity is the spores/m³ divided by the raw count, expressed in spores/m³. The limit of detection is the analytical sensitivity (in spores/m³) multiplied by the sample volume (in liters) divided by 1000 liters.

[†] 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.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory. ‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

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



Report for:

Mr. Chad Johnson Eastern Washington University EH&S, 002 Martin Hall Cheney, WA 99004

Regarding:

Project: WLM 310-312 EML ID: 2307148

Approved by:

Operations Manager Joshua Cox Dates of Analysis:

Spore trap analysis: 12-03-2019

Service SOPs: Spore trap analysis (EM-MY-S-1038) AIHA-LAP, LLC accredited service, Lab ID #102297

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Client: Eastern Washington University

C/O: Mr. Chad Johnson Re: WLM 310-312

Date of Sampling: 11-14-2019 Date of Receipt: 11-29-2019 Date of Report: 12-03-2019

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:		2813367 WLM 3			28133652: WLM 310D			28133651: WLM 312			28133648: WLM Outside					
Comments (see below)		None				None				None			A			
Lab ID-Version‡:		10979470	0-1			1097947	2-1			10979474	-1		10979476-1			
Analysis Date:		12/03/20	19			12/03/20)19		12/03/2019				12/03/2019			
Sample volume (liters)		75				75				75			75			
Background debris (1-4+)††		1+				2+				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	5	230	n/a	100	7	130	n/a	100	6	280	n/a	100	40	1,400	n/a	100
Alternaria	1	13	13	6												
Ascospores									1	53	53	19				
Basidiospores													9	480	53	35
Chaetomium																
Cladosporium	1	53	53	24	1	53	53	40					18	440	24	32
Penicillium/Aspergillus types	3	160	53	71					4	210	53	76	7	370	53	27
Rusts																
Smuts, Periconia, Myxomycetes					6	80	13	60	1	13	13	5	6	80	13	6
Stachybotrys																
Stemphylium																
Torula																
Ulocladium																
Zygomycetes																

Comments: A) 13 of the raw count *Cladosporium* spores were present as a single clump.

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/m³ divided by the raw count, expressed in Count/m³.

Aerotech Laboratories, Inc EMLab ID: 2307148, Page 2 of 2

^{*}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.

[‡] A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x". § Total Fungal Spores has been rounded to two significant figures to reflect analytical precision.



Report for:

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Regarding:

Project: WLM 310-312 EML ID: 2307148

Approved by:

Operations Manager Joshua Cox Dates of Analysis:

Spore trap analysis other particles-Supplement: 12-03-2019

Service SOPs: Spore trap analysis other particles-Supplement (EM-MY-S-1038) AIHA-LAP, LLC accredited service, Lab ID #102297

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Client: Eastern Washington University

C/O: Mr. Chad Johnson Re: WLM 310-312

Date of Sampling: 11-14-2019 Date of Receipt: 11-29-2019 Date of Report: 12-03-2019

OTHER BIOLOGICAL PARTICLES REPORT: NON-VIABLE METHODOLOGY

28133671: WLM 310						28133648: WLM Outside		
						None		
						10979477-1		
							particles/m3	
Taw Ct.	particles/iii3	1aw Ct.	particles/iii3	Taw Ct.	particles/iii3	Taw Ct.	particles/1113	
						1	12	
						1	13	
1	13	1	13	2	27	1	13	
52	690	95	1,300	124	1,700	16	210	
9	120	25	330	43	570	9	120	
1							-20	
		1	13	3	40	1	13	
		1				1	15	
1+			15			2+		
	WL 1097 raw ct.	WLM 310 None 10979471-1 raw ct. particles/m3	WLM 310 None 10979471-1 1097 raw ct. particles/m3 raw ct. 1	WLM 310 WLM 310D None None 10979471-1 10979473-1 raw ct. particles/m3 raw ct. particles/m3 1 13 1 13 52 690 95 1,300 9 120 25 330 1 13 1 13 1 13 1 13 1 13 1 13 1 13 1 13 1 13 1 13 1 13	WLM 310 WLM 310D None WL None NONE </td <td>WLM 310 WLM 310D None WLM 312 None None None 10979471-1 10979473-1 10979475-1 raw ct. particles/m3 raw ct. particles/m3 1 13 1 13 2 27 52 690 95 1,300 124 1,700 9 120 25 330 43 570 1 13 1 13 2 27 1+ 2+ 2+ 2+ 2+ 2+</td> <td>WLM 310 WLM 310D None WLM 312 None WLM 310 None 1097 raw ct. particles/m3 particles/m3 particles/m3</td>	WLM 310 WLM 310D None WLM 312 None None None 10979471-1 10979473-1 10979475-1 raw ct. particles/m3 raw ct. particles/m3 1 13 1 13 2 27 52 690 95 1,300 124 1,700 9 120 25 330 43 570 1 13 1 13 2 27 1+ 2+ 2+ 2+ 2+ 2+	WLM 310 WLM 310D None WLM 312 None WLM 310 None 1097 raw ct. particles/m3 particles/m3 particles/m3	

Comments:

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

Carbonaceous particles include soot and other combustion products. In most instances a detailed analysis of soot can be accomplished using

Note: Interpretation is left to the company and/or persons who conducted the field work.

[†] Background debris is an indication of the amounts of non-biological particulate matter present on the slide (dust in the air) and is graded from 1+ to 4+ with 4+ indicating the largest amounts. To evaluate dust levels it is important to account for differences in sample volume.

[‡] A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

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Date of Sampling: 11-14-2019 Date of Receipt: 11-29-2019 Date of Report: 12-03-2019

MoldRANGETM, Local Climate; Extended Outdoor Comparison

Outdoor Location: 28133648, WLM Outside

Fungi Identified	Outdoor data		Nove EML	ember in ab Local , A Elev. (n‡:	Washing Climate	gton† code¹			The en EMLa	tire year ab Local , A Elev	in Washi Climate , B Rain 1038)	ington† code¹	p. Range
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	-	-	-	-	-	-	22	13	13	27	53	92	27
Bipolaris/Drechslera group	-	-	-	-	-	-	1	7	7	13	23	27	2
Chaetomium	-	-	-	-	-	-	< 1	7	13	13	25	40	6
Cladosporium	440	110	130	640	2,800	3,700	81	53	110	370	1,200	2,400	83
Curvularia	-	-	-	-	-	-	3	13	13	13	23	30	2
Nigrospora	-	-	-	-	-	-	1	-	-	-	-	-	2
Penicillium/Aspergillus types	370	53	110	270	600	1,500	84	53	53	160	460	800	83
Stachybotrys	-	-	-	-	-	-	3	-	-	-	-	-	1
Torula	-	-	-	-	-	-	1	13	13	17	48	73	4
Seldom found growing indoors**													
Ascospores	-	110	160	590	1,600	2,300	82	53	89	270	1,000	1,700	77
Basidiospores	480	220	430	1,500	8,400	19,000	93	53	130	530	1,900	3,900	90
Rusts	-	-	-	-	-	-	18	13	13	27	53	94	18
Smuts, Periconia, Myxomycetes	80	13	22	40	120	290	66	13	27	160	940	2,000	67
§ TOTAL SPORES/m3	1,400												

¹EMLab 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 MoldRANGETM Local Climate data summarized in the table.

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

^{*} 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.

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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 Eurofins 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 MoldRANGETM data by month and year within each EMLab Local Climate code.

References:

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

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by Eurofins EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, Eurofins EMLab P&K may not have received and tested a representative number of samples for every region or time period. Eurofins EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

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EMLab ID: 2307148, Page 2 of 2

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Client: Eastern Washington University

Date of Sampling: 11-14-2019 C/O: Mr. Chad Johnson Date of Receipt: 11-29-2019 Re: WLM 310-312 Date of Report: 12-03-2019

MoldSTATTM: Supplementary Statistical Spore Trap Report

Outdoor Summary: 28133648: WLM Outside

Species detected		Outdoo	r sample sj	Typical outdoor ranges	Freq.	
	<100	1K	10K	>100K	(North America)	%
Ascospores				< 13	13 - 270 - 6,600	78
Basidiospores				480	20 - 510 - 24,000	91
Cladosporium				440	27 - 530 - 8,700	89
Penicillium/Aspergillus types				370	13 - 200 - 2,800	65
Smuts, Periconia, Myxomycetes				80	7 - 53 - 1,100	67
Total				1,400		

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurrence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples

Location: 28133671: WLM 310

% of outdoor total spores/m3	Friedman chi- square* (indoor variation)	Agreement ratio** (indoor/outdoor)		(indoor/outdoor) correlation*** (in			MoldSCORE**** (indoor/outdoor)
Result: 16%	dF: 2 Result: 0.1000 Critical value: 5.9915 Inside Similar: Yes	Result: 0.5714		dF: 5 Result: -0.0250 Critical value: 0.8000 Outside Similar: No	Score: 119 Result: Low		
Species 1	Detected			Spores/m3			
		<100	1K	10K	>100K		
	Alternaria				13		
Cladosporium					53		
Penicillium/Aspergillus types					160		
	Total				230		

Location: 28133652: WLM 310D

% of outdoor total spores/m3	Friedman chi- square* (indoor variation)	Agreement ratio** (indoor/outdoor)		Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 9%	dF: 2 Result: 0.1000 Critical value: 5.9915 Inside Similar: Yes	Result: 0.6667		dF: 4 Result: -0.5500 Critical value: N/A Outside Similar: N/A	Score: 115 Result: Low
Species 1	Detected			Spores/m3	
		<100	1K	10K	>100K
	Cladosporium				53
Smuts, Periconia, Myxomycetes					80
	Total				130

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MoldSTATTM: Supplementary Statistical Spore Trap Report

Location: 28133651: WLM 312

% of outdoor total spores/m3	Friedman chi- square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 20%	dF: 2 Result: 0.1000 Critical value: 5.9915 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: -0.6250 Critical value: 0.8000 Outside Similar: No	Score: 125 Result: Low
Species 1	Detected		Spores/m3	
		<100 1K	10K	>100K
	Ascospores			53
Penicillium/Aspergillus types				210
Smuts, Periconia, Myxomycetes				13
	Total			280

^{*} The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

- *** The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.
- **** MoldSCORETM is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. Eurofins EMLab P&Kreserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor ranges" are based on the results of the analysis of samples delivered to and analyzed by Eurofins EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. Eurofins EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

^{**} An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.