

The following samples were collected from the JFK Library, rooms/areas:

- L23 – 2578 5597
- Reference desk – 2599 9409
- Back hallway near exit – 2578

5668

- U18 – 2578 5562
- Roof – 2578 5544



Report for:

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

Regarding: Project: JFK  
EML ID: 1926343

Approved by:

Operations Manager  
Joshua Cox

Dates of Analysis:  
Spore trap analysis: 05-11-2018

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 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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Client: Eastern Washington University  
 C/O: Mr. Chad Johnson  
 Re: JFK

Date of Sampling: 05-09-2018  
 Date of Receipt: 05-11-2018  
 Date of Report: 05-11-2018

**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	1: 2599 9409		2: 2578 5597		3: 2578 5562		4: 2578 5668		5: 2578 5544	
Comments (see below)	None		None		None		None		None	
Lab ID-Version‡:	9058883-1		9058885-1		9058887-1		9058889-1		9058891-1	
Analysis Date:	05/11/2018		05/11/2018		05/11/2018		05/11/2018		05/11/2018	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Ascospores									13	690
Basidiospores									8	430
Botrytis										
Chaetomium										
Cladosporium	1	53	1	53	1	13	1	53	15	800
Curvularia										
Epicoccum										
Fusarium										
Myrothecium										
Nigrospora										
Other colorless										
Penicillium/Aspergillus types†							1	53		
Pithomyces										
Rusts										
Smuts, Periconia, Myxomycetes							11	150	23	310
Stachybotrys							1	13		
Stemphylium									2	27
Torula										
Ulocladium										
Zygomycetes										
Background debris (1-4+)††	3+		3+		1+		3+		2+	
Hyphal fragments/m3	< 13		< 13		< 13		40		< 13	
Pollen/m3	< 13		< 13		< 13		13		40	
Skin cells (1-4+)	1+		1+		< 1+		1+		< 1+	
Sample volume (liters)	75		75		75		75		75	
<b>§ TOTAL SPORES/m3</b>		53		53		13		270		2,300

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

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/m<sup>3</sup> 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: JFK  
EML ID: 1926343

Approved by:

Operations Manager  
Joshua Cox

Dates of Analysis:  
Spore trap analysis: 05-11-2018

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

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 Date of Report: 05-11-2018

**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	1: 2599 9409				2: 2578 5597				3: 2578 5562			
Comments (see below)	None				None				None			
Lab ID-Version‡:	9058883-1				9058885-1				9058887-1			
Analysis Date:	05/11/2018				05/11/2018				05/11/2018			
Sample volume (liters)	75				75				75			
Background debris (1-4+)††	3+				3+				1+			
	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%
Hyphal fragments												
Pollen												
<b>§ TOTAL FUNGAL SPORES</b>	1	53	n/a	100	1	53	n/a	100	1	13	n/a	100
Ascospores												
Basidiospores												
Chaetomium												
Cladosporium	1	53	53	100	1	53	53	100	1	13	13	100
Penicillium/Aspergillus types												
Pithomyces												
Rusts												
Smuts, Periconia, Myxomycetes												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Zygomycetes												

**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<sup>3</sup> divided by the raw count, expressed in Count/m<sup>3</sup>.

\*The detection limit/limit of detection (DL) per cubic meter (m<sup>3</sup>) 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.

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Date of Sampling: 05-09-2018  
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 Date of Report: 05-11-2018

**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	4: 2578 5668				5: 2578 5544			
Comments (see below)	None				None			
Lab ID-Version‡:	9058889-1				9058891-1			
Analysis Date:	05/11/2018				05/11/2018			
Sample volume (liters)	75				75			
Background debris (1-4+)††	3+				2+			
	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%
Hyphal fragments	3	40	13	n/a				
Pollen	1	13	13	n/a	3	40	13	n/a
<b>§ TOTAL FUNGAL SPORES</b>	<b>14</b>	<b>270</b>	<b>n/a</b>	<b>100</b>	<b>61</b>	<b>2,300</b>	<b>n/a</b>	<b>100</b>
Ascospores					13	690	53	31
Basidiospores					8	430	53	19
Chaetomium								
Cladosporium	1	53	53	20	15	800	53	36
Penicillium/Aspergillus types	1	53	53	20				
Pithomyces								
Rusts								
Smuts, Periconia, Myxomycetes	11	150	13	55	23	310	13	14
Stachybotrys	1	13	13	5				
Stemphylium					2	27	13	1
Torula								
Ulocladium								
Zygomycetes								

**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<sup>3</sup> divided by the raw count, expressed in Count/m<sup>3</sup>.

\*The detection limit/limit of detection (DL) per cubic meter (m<sup>3</sup>) 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.



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Regarding: Project: JFK  
EML ID: 1926343

Approved by:

Operations Manager  
Joshua Cox

Dates of Analysis:

Spore trap analysis other particles-Supplement: 05-11-2018

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

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**OTHER BIOLOGICAL PARTICLES REPORT: NON-VIABLE METHODOLOGY**

Location:	1: 2599 9409		2: 2578 5597		3: 2578 5562		4: 2578 5668		5: 2578 5544	
Comments (see below)	None		None		None		None		None	
Lab ID-Version‡:	9058884-1		9058886-1		9058888-1		9058890-1		9058892-1	
	raw ct.	particles/m3	raw ct.	particles/m3	raw ct.	particles/m3	raw ct.	particles/m3	raw ct.	particles/m3
<b>POLLEN</b>										
Eucalyptus (Eucalyptus)										
Grass (Poaceae)										
Mulberry (Morus)										
Oak (Quercus)										
Other							1	13		
Pine (Pinaceae)									3	40
Ragweed (Ambrosieae)										
Sycamore (Platanus)										
<b>OTHER PLANT</b>										
Algae										
Diatoms										
Fern, moss, etc. spores										
Other (wood, trichomes, etc.)										
<b>OTHER PARTICLES:</b>										
<b>ANIMAL</b>										
Epithelial (skin) cells	54	2,900	97	5,200	31	410	68	3,600	45	600
Hair										
Insect parts										
Mites										
<b>FUNGI</b>										
Hyphal fragments							3	40		
<b>NON-BIOLOGICAL</b>										
Cellulose fibers	16	210	18	240			22	290	14	190
Glass fiber							80	1,100	6	80
Starch particles	1	13					5	67		
Synthetic fibers	1	13					2	27		
Background debris (1-4+)†	3+		3+		1+		3+		2+	
Sample volume (liters)	75		75		75		75		75	

**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 scanning electron microscopy.

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.

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 Aerotech Laboratories, Inc