eurofins | Built Environment Testing

Report for:

Kathy Kees
Eastern Washington University
312 Eagle Lane
EH&S, 002 Martin Hall
Cheney, WA 99004

Regarding: Eurofins Aerotech Built Environment Testing, LLC
Project: JFK Library; Air Quality Sampling
EML ID: 3898754

Approved by:

Business Unit Manager
Joshua Cox

Dates of Analysis:
Spore trap analysis: 01-02-2025

Service SOPs: Spore trap analysis (EB-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 and tested. Information supplied by the client which can affect the validity of results: sample air volume.

Eurofins Aerotech Built Environment Testing, LLC ("the Company"), a member of the Eurofins Built Environment Testing group of companies, 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.
Eurofins Aerotech Built Environment Testing, LLC'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.

Eurofins Aerotech Built Environment Testing, LLC
1501 West Knudsen Drive, Phoenix, AZ 85027
(800) 651-4802 www.eurofinsus.com/Built

Client: Eastern Washington University
C/O: Kathy Kees
Re: JFK Library; Air Quality Sampling

Date of Sampling: 12-27-2024
Date of Receipt: 12-31-2024
Date of Report: 01-02-2025

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	39208567: Desk next to Lectern		39208563: Top of cupboard above microwave		39208569: Ledge behind Door		39208568: Bookshelf near first aid supplies	
Comments (see below)	A		B		A		A	
Lab ID-Version‡:	19326356-1		19326358-1		19326360-1		19326362-1	
Analysis Date:	01/02/2025		01/02/2025		01/02/2025		01/02/2025	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Ascospores								
Basidiospores								
Botrytis								
Chaetomium								
Cladosporium								
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other colorless								
Penicillium/Aspergillus types†								
Pithomyces								
Rusts								
Smuts, Periconia, Myxomycetes			1	53				
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)	2+		3+		2+		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		< 13		53		< 13		< 13

Comments: A) No spores detected. B) Samples were not analyzed in accordance with SOP

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, per spore and per sample.

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.

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Date of Receipt: 12-31-2024
Date of Report: 01-02-2025

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	39208565: Window sill		39208570: Southern Oregon Shelf		39208566: Oversize bookshelf		37628776: Empty bookshelves in corner	
Comments (see below)	A		A		A		A	
Lab ID-Version‡:	19326364-1		19326366-1		19326368-1		19326370-1	
Analysis Date:	01/02/2025		01/02/2025		01/02/2025		01/02/2025	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Ascospores								
Basidiospores								
Botrytis								
Chaetomium								
Cladosporium								
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other colorless								
Penicillium/Aspergillus types†								
Pithomyces								
Rusts								
Smuts, Periconia, Myxomycetes								
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)	2+		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		< 13		< 13		< 13		< 13

Comments: A) No spores detected.

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: JFK Library; Air Quality Sampling

Date of Sampling: 12-27-2024
Date of Receipt: 12-31-2024
Date of Report: 01-02-2025

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	37628761: Glass partition counter		37628835: Air handler near lading dock (AHLD)	
Comments (see below)	A		B	
Lab ID-Version‡:	19326372-1		19326374-1	
Analysis Date:	01/02/2025		01/02/2025	
	raw ct.	spores/m3	raw ct.	spores/m3
Ascospores			1	53
Basidiospores			27	1,400
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium				
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Other colorless				
Penicillium/Aspergillus types†				
Pithomyces				
Rusts				
Smuts, Periconia, Myxomycetes			1	53
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Zygomycetes				
Background debris (1-4+)	2+		2+	
Hyphal fragments/m3	< 13		< 13	
Pollen/m3	< 13		53	
Skin cells (1-4+)	< 1+		< 1+	
Sample volume (liters)	75		75	
§ TOTAL SPORES/m3		< 13		1,500

Comments: A) No spores detected. B) Samples were not analyzed in accordance with SOP

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SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

PROJECT ANALYST AND SIGNATORY REPORT

Project Analyst

Analyst: Diamond Woodfill

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Regarding: Eurofins Aerotech Built Environment Testing, LLC
Project: JFK Library; Air Quality Sampling
EML ID: 3898754

Approved by:

Business Unit Manager
Joshua Cox

Dates of Analysis:
Spore trap analysis: 01-02-2025

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

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Date of Sampling: 12-27-2024
Date of Receipt: 12-31-2024
Date of Report: 01-02-2025

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	39208567: Desk next to Lectern				39208563: Top of cupboard above microwave				39208569: Ledge behind Door				39208568: Bookshelf near first aid supplies			
Comments (see below)	A				B				A				A			
Lab ID-Version‡:	19326356-1				19326358-1				19326360-1				19326362-1			
Analysis Date:	01/02/2025				01/02/2025				01/02/2025				01/02/2025			
Sample volume (liters)	75				75				75				75			
Background debris (1-4+)	2+				3+				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																
Pollen																
§ TOTAL FUNGAL SPORES		< 13	n/a	100	1	53	n/a	100		< 13	n/a	100		< 13	n/a	100
Ascospores																
Basidiospores																
Chaetomium																
Cladosporium																
Penicillium/Aspergillus types																
Pithomyces																
Rusts																
Smuts, Periconia, Myxomycetes					1	53	53	100								
Stachybotrys																
Stemphylium																
Torula																
Ulocladium																

Comments: A) No spores detected. B) Samples were not analyzed in accordance with SOP

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 is the spores/m^3 divided by the raw count, expressed in spores/m^3, per spore and per sample.

*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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SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	39208565: Window sill				39208570: Southern Oregon Shelf				39208566: Oversize bookshelf				37628776: Empty bookshelves in corner			
Comments (see below)	A				A				A				A			
Lab ID-Version‡:	19326364-1				19326366-1				19326368-1				19326370-1			
Analysis Date:	01/02/2025				01/02/2025				01/02/2025				01/02/2025			
Sample volume (liters)	75				75				75				75			
Background debris (1-4+)	2+				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																
§ TOTAL FUNGAL SPORES		< 13	n/a	100		< 13	n/a	100		< 13	n/a	100		< 13	n/a	100
Ascospores																
Basidiospores																
Chaetomium																
Cladosporium																
Other colorless																
Penicillium/Aspergillus types																
Pithomyces																
Rusts																
Smuts, Periconia, Myxomycetes																
Stachybotrys																
Stemphylium																
Torula																
Ulocladium																

Comments: A) No spores detected.

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SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	37628761: Glass partition counter				37628835: Air handler near lading dock (AHLD)			
Comments (see below)	A				B			
Lab ID-Version‡:	19326372-1				19326374-1			
Analysis Date:	01/02/2025				01/02/2025			
Sample volume (liters)	75				75			
Background debris (1-4+)	2+				2+			
	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%
Hyphal fragments								
Pollen					1	53	53	n/a
§ TOTAL FUNGAL SPORES		< 13	n/a	100	29	1,500	n/a	100
Ascospores					1	53	53	3
Basidiospores					27	1,400	53	93
Chaetomium								
Cladosporium								
Other colorless								
Penicillium/Aspergillus types								
Pithomyces								
Rusts								
Smuts, Periconia, Myxomycetes					1	53	53	3
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								

Comments: A) No spores detected. B) Samples were not analyzed in accordance with SOP

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PROJECT ANALYST AND SIGNATORY REPORT

Project Analyst

Analyst: Diamond Woodfill

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Approved by:

Business Unit Manager
Joshua Cox

Dates of Analysis:
Spore trap analysis other particles-Supplement: 01-02-2025

Service SOPs: Spore trap analysis other particles-Supplement (EM-MY-S-1038)
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Date of Sampling: 12-27-2024
Date of Receipt: 12-31-2024
Date of Report: 01-02-2025

OTHER BIOLOGICAL PARTICLES REPORT: NON-VIABLE METHODOLOGY

Location:	39208567: Desk next to Lectern		39208563: Top of cupboard above microwave		39208569: Ledge behind Door		39208568: Bookshelf near first aid supplies	
Comments (see below)	A		A		A		A	
Lab ID-Version‡:	19326357-1		19326359-1		19326361-1		19326363-1	
	raw ct.	particles/m3	raw ct.	particles/m3	raw ct.	particles/m3	raw ct.	particles/m3
POLLEN								
Grass (Poaceae)								
Mulberry (Morus)								
Oak (Quercus)								
Other								
Pine (Pinaceae)								
Ragweed (Ambrosieae)								
Sycamore (Platanus)								
OTHER PLANT								
Algae								
Diatoms								
Fern, moss, etc. spores								
Other (wood, trichomes, etc.)								
OTHER PARTICLES:								
ANIMAL								
Epithelial (skin) cells	14	750	103	5,500	14	750	56	3,000
Hair								
Insect parts								
Mites								
FUNGI								
Hyphal fragments								
NON-BIOLOGICAL								
Cellulose fibers	2	110	12	640	2	110	6	320
Glass fiber			1	53				
Starch particles					1	53	1	53
Synthetic fibers	1	53			1	53	1	53
Background debris (1-4+)†	2+		3+		2+		3+	
Sample volume (liters)	75		75		75		75	

Comments: A) Samples were not analyzed in accordance with SOP

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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OTHER BIOLOGICAL PARTICLES REPORT: NON-VIABLE METHODOLOGY

Location:	39208565: Window sill		39208570: Southern Oregon Shelf		39208566: Oversize bookshelf		37628776: Empty bookshelves in corner	
Comments (see below)	A		A		A		A	
Lab ID-Version‡:	19326365-1		19326367-1		19326369-1		19326371-1	
	raw ct.	particles/m3	raw ct.	particles/m3	raw ct.	particles/m3	raw ct.	particles/m3
POLLEN								
Grass (Poaceae)								
Mulberry (Morus)								
Oak (Quercus)								
Other								
Pine (Pinaceae)								
Ragweed (Ambrosieae)								
Sycamore (Platanus)								
OTHER PLANT								
Algae								
Diatoms								
Fern, moss, etc. spores								
Other (wood, trichomes, etc.)								
OTHER PARTICLES:								
ANIMAL								
Epithelial (skin) cells	29	1,500	20	1,100	5	270	37	2,000
Hair								
Insect parts								
Mites								
FUNGI								
Hyphal fragments								
NON-BIOLOGICAL								
Cellulose fibers	3	160			1	53	5	270
Glass fiber								
Starch particles	1	53						
Synthetic fibers	1	53	2	110			2	110
Background debris (1-4+)†	2+		2+		2+		2+	
Sample volume (liters)	75		75		75		75	

Comments: A) Samples were not analyzed in accordance with SOP

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.

‡ 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".

Eurofins Aerotech Built Environment Testing, LLC
1501 West Knudsen Drive, Phoenix, AZ 85027
(800) 651-4802 www.eurofinsus.com/Built

Client: Eastern Washington University
C/O: Kathy Kees
Re: JFK Library; Air Quality Sampling

Date of Sampling: 12-27-2024
Date of Receipt: 12-31-2024
Date of Report: 01-02-2025

OTHER BIOLOGICAL PARTICLES REPORT: NON-VIABLE METHODOLOGY

Location:	37628761: Glass partition counter		37628835: Air handler near lading dock (AHLD)	
Comments (see below)	A		A	
Lab ID-Version‡:	19326373-1		19326375-1	
	raw ct.	particles/m3	raw ct.	particles/m3
POLLEN				
Eucalyptus (Eucalyptus)				
Grass (Poaceae)				
Mulberry (Morus)				
Oak (Quercus)				
Other			1	53
Pine (Pinaceae)				
Ragweed (Ambrosieae)				
Sycamore (Platanus)				
OTHER PLANT				
Algae				
Diatoms				
Fern, moss, etc. spores				
Other (wood, trichomes, etc.)				
OTHER PARTICLES:				
ANIMAL				
Epithelial (skin) cells	16	850	7	370
Hair				
Insect parts				
Mites				
FUNGI				
Hyphal fragments				
NON-BIOLOGICAL				
Cellulose fibers			2	110
Glass fiber				
Starch particles				
Synthetic fibers				
Background debris (1-4+)†	2+		2+	
Sample volume (liters)	75		75	

Comments: A) Samples were not analyzed in accordance with SOP

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.

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PROJECT ANALYST AND SIGNATORY REPORT

Project Analyst

Analyst: Diamond Woodfill

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