



1511 Route 22, Suite C24
Brewster, NY 10509 845.278.7710
90 State Street, Suite 700
Albany, NY 12207 518.874.0617
1967 Wehrle Drive, Suite One
Buffalo, NY 14221 716.402.4580
E-mail: adelaidemail@adelaidellc.com
Fax: 845.278.7750

INDOOR AIR QUALITY CLEARANCE SAMPLING

PERFORMED AT:

PS 15
175 Westchester Avenue
Yonkers, New York 10707
Adelaide Project#YONK:18392.01-PM

PREPARED FOR:

Yonkers Public Schools
One Larkin Center
Yonkers, New York 10701

PREPARED BY:

Jason Fullum
October 9, 2018

REVIEWED BY:

A handwritten signature in blue ink, appearing to read "Stephanie A. Soter".

Stephanie A. Soter
President



TABLE OF CONTENTS

1.0	Introduction	1
1.1	Scope of Work / Project Personnel	1
1.2	Executive Summary	1
1.2.1	Conclusions and Recommendations	1
1.2.2	Indoor Air Quality	1
1.3	Observations	1
2.0	Sampling Methodology	2
3.0	Disclaimers	3

APPENDICES

Sample Location Map(s)	A
Analytical Results	B
Personnel and Laboratory Certifications	C

1.0 Introduction

1.1 Scope of Work / Project Personnel

Adelaide Environmental Health Associates, Inc. (**Adelaide**) performed an Indoor Air Quality Clearance Sampling, in conformance with ALL Federal, State and Local regulations, on October 1, 2018 for Yonkers Public Schools throughout all rooms located at PS 15 in Yonkers, New York. The clearance sampling included 1) a visual inspection/assessment throughout accessible interior and/or exterior spaces of the building/structure identified to be affected; and, 2) collecting of various air, tape, swab and/or bulk sample(s) at the discretion of the mold assessor; Certified **Adelaide** personnel (Appendix C), Jason Fullum (NYS Mold Assessor/Cert. #MA00056), performed the visual assessment throughout affected area(s) identified.

1.2 Executive Summary

Following the scope of work that was provided to us, **Adelaide** performed an indoor air quality clearance sampling of all the rooms on all floors for post abatement clearance. **Adelaide** collected one hundred and thirty five (135) air samples from the above-mentioned area(s). For testing locations, refer to the sample location maps (Appendix A).

1.2.1 Conclusions and Recommendations

The following conclusions and recommendations are prepared by **Adelaide** as per the provided scope of work. Should the scope of work change, it is recommended that the findings be revisited to determine if additional sampling will be required to satisfy ALL Federal, State and Local regulations.

1.2.2 Indoor Air Quality

Air samples were collected in each space throughout the basement, first, second and third floors of the building after mold abatement was completed. The abatement included removals of the visible mold, removal of water stained areas and fogging of the duct work to kill any mold that may be remaining.

The air samples all showed acceptable levels and the area can be reoccupied. Even though *Stachybotrys* was found in the air samples in rooms 106, storage room 112A , 1st floor hallway south and room 209 it was a minimal amount of one or two spores at the highest.

1.3 Observations

The following observations were made during the assessment:

- No visible mold was observed during the final clearance.

2.0 Sampling Methodology

Yeasts and Molds:

Adelaide uses 14.4mm, .37 micron Air-O-Cell cassettes at 15.0L/min to sample airborne mold. Samples of unused filters, handled in the same manner as the sample cassettes, are analyzed as blanks to ensure no contamination was from the process of taking the sample.

The filters from the samples are then diluted and redeposited on malt extract agar (for fungi and mold) and tryptic soy agar (for bacteria). The agar is then incubated from four to seven days. The growth is both counted and identified. This is very important. "Counts", alone, are only half the story. The other half is whether the mold present is an opportunistic pathogen or just an allergen. Yeast and mold concentrations vary outdoors based on rainfall, temperature, vegetation, soil disturbance, wind and other factors. There are no "regulatory standard" methods at this time. The method used was provided by Dr. Chin Yang, Consulting Mycologist, formerly with the U.S. Public Health Service, Division of Federal Occupational Health.

Bulk samples collected are sent to the laboratory in a 4 mil poly bag. The sample(s) received by the laboratory are matched with the information provided on the Chain of Custody (COC). A laboratory Identification Number is assigned and the project and sample information is logged. Analysis begins with an inspection of the bulk material and any areas of discoloration or potential fungal presence are noted. Clear tape is used to take representative samples from the material and the tape(s) are reviewed microscopically and any detected fungi are identified and estimated amounts are noted in our reporting system.

In evaluating **microbiological** test data (air samples, wipes, swipes, vacuum swipes, swabs, etc.), there are several assumptions and guidelines we follow, and we list them below:

1. Our reference guide for interpreting microbiological analytical results is the *Proceedings of the International Conference of Fungi and Bacteria in Indoor Air Environments*, Edited by Drs. Eckardt Johanning and Chin S. Yang. Additional references include:

- a. *Aerobiology*, edited by Muilenberg and Burge, CRC Press (1996)
- b. *Field Guide for the Determination of Biological Contaminants in Environmental Samples*, Dillon, Heinsohn, Miller, AIHA Publications (1996)
- c. *Biosafety Reference Manual*, Heinsohn, Jacobs, Concoby, AIHA Publications (1995)
- d. *Indoor Air and Human Health*, Gammage, Kaye, Lewis Publishers, (1985)
- e. *Indoor Air and Human Health Second Edition*, Gammage, Berven, CRC Press (1996)

2. The values we use to interpret **air sample data** was provided by Dr. Chin Yang. He is a consulting Mycologist, and presently performs consulting work for the U.S. Public Health Service concerning Bioaerosols and Indoor Air Quality.

Low:	0 to 100 CFU/m ³ (limited or no effect level)
Moderate:	100 to 250 CFU/M ³ (minor effect level; persons with hypersensitivity, allergies or immunosuppressed may experience an "effect".)
High:	250 to 1000 CFU/m ³ (effect level for the average or normal healthy adult; the effects vary from minor discomfort to lost job time)

Very High: 1000 CFU/m³ and above (noticeable odor, growth, illness etc.; a decontamination strategy is normally required.)

The levels are guideline levels. There is NO law or legal requirement to do anything based on the above levels. They are OPINIONS.

3. Why perform microbiological testing if it is so inaccurate, the data is subject to "opinion", and there is no legal requirement? Again, all we can offer is another opinion. When it comes to a person's health and well-being, we like having as much data as possible to determine if a person is "at risk" from the conditions in the workplace. Microbiological testing provides enough data to determine if there is a potential risk from exposure to bioaerosols. When the numbers are above "low", you then take into account the individuals affected, i.e., their medical history, and make a judgment.

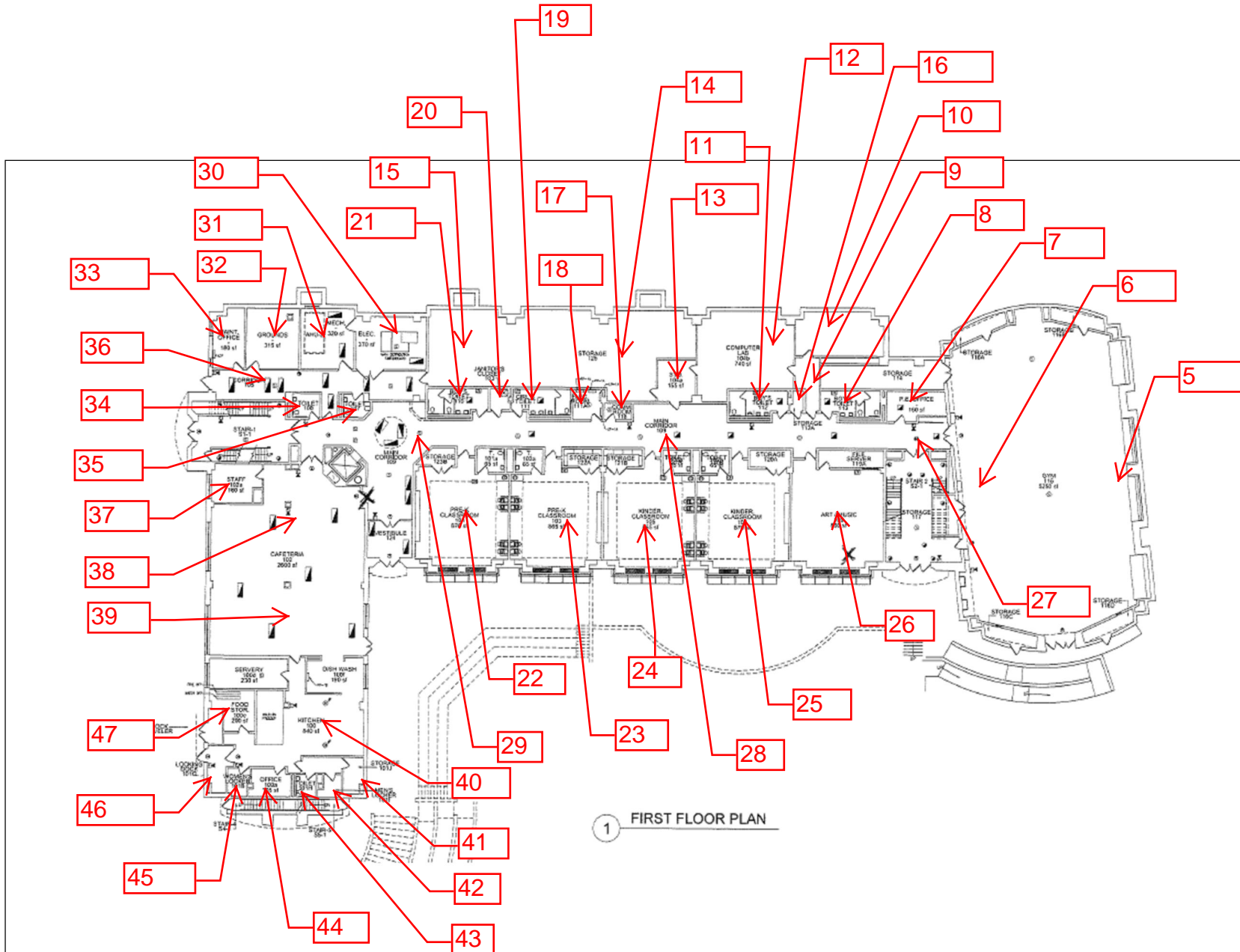
Although bodies such as the ACGIH do not give numerical guidelines, a Canadian guide on office buildings based on five years of investigation of 50 air-conditioned federal government buildings (Nathanson, 1993) includes some guidance on numbers. The following are the main points:

- a. The "normal" air flora should be quantitatively lower than, but qualitatively similar to, that of outdoor air.
- b. The presence of one or more fungal species at significant levels in indoor but not outdoor samples is evidence of an indoor amplifier.
- c. Pathogenic fungi such as *Aspergillus fumigatus*, *Histoplasma* and *Cryptococcus* should not be present in significant numbers.
- d. The persistence of toxigenic molds such as *Stachybotrys atra* and *Aspergillus versicolor* in significant numbers requires investigation /action.
- e. More than 50 CFU/m³ (10,000 CFU/g) may be of concern if there is only a single species present (other than certain common outdoor phylloplane fungi); up to 150 CFU/m³ (30,000 CFU/g) is acceptable if the species present reflect the flora outdoors; up to 500 CFU/m³ (50,000) is acceptable in summer if outdoor leaf-inhabiting fungi are the main components.

3.0 Disclaimers

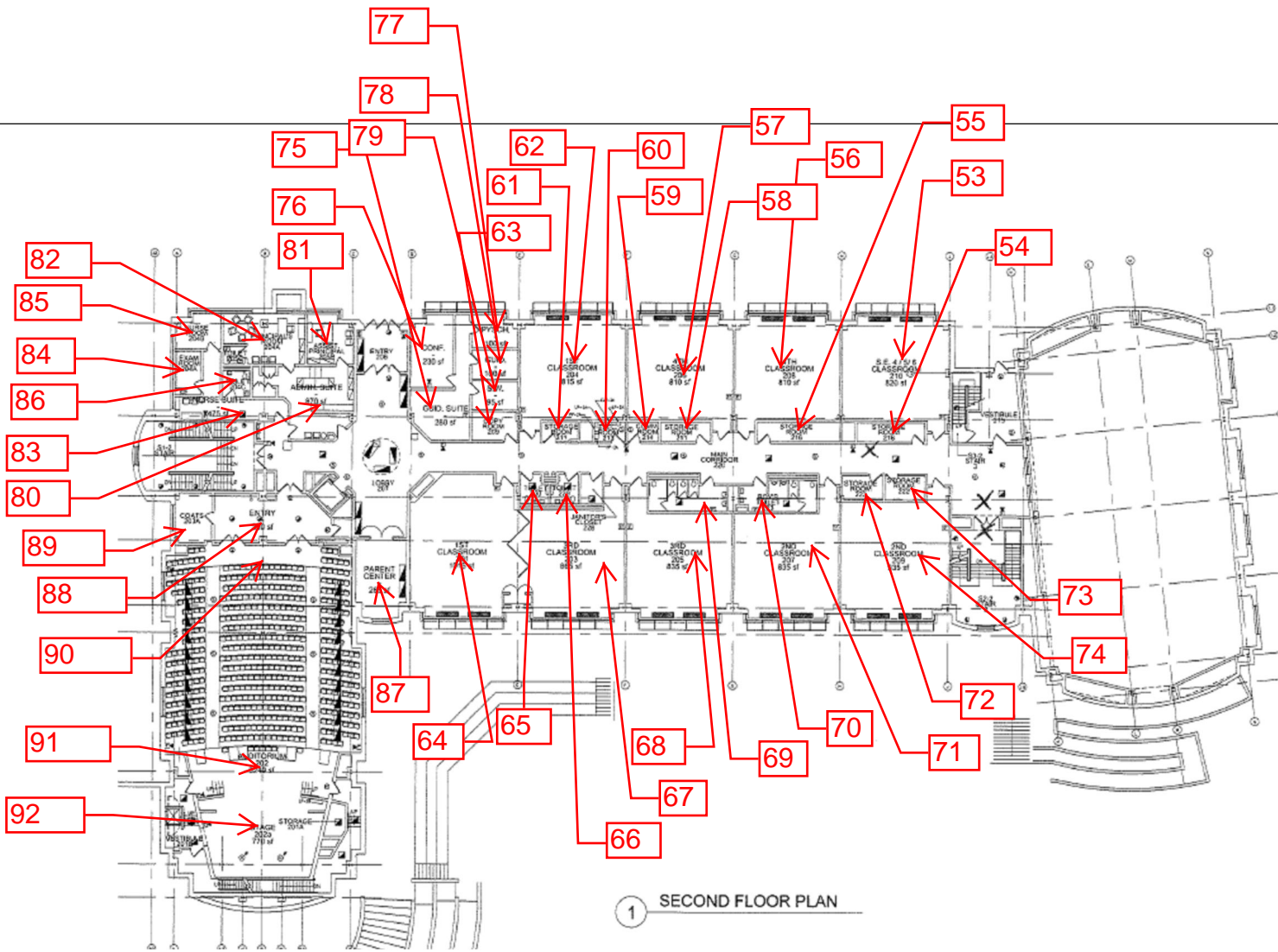
Adelaide certifies that the information contained within this report is based solely upon site observations and the results of laboratory analysis for samples collected during this survey/assessment. These observations and results are time dependent, subject to changing site conditions and revisions to Federal, State and Local regulations. **Adelaide** warrants that these findings have been promulgated after being prepared in general accordance with generally accepted practices in the abatement industries. **Adelaide** also recognizes that inspection laboratory data is not usually sufficient to make all abatement and management decisions. No other warranties are expressed or implied.

APPENDIX A
SAMPLE LOCATION MAP(S)




First Floor Key Plan - Sample Locations
 Drawing Not to Scale

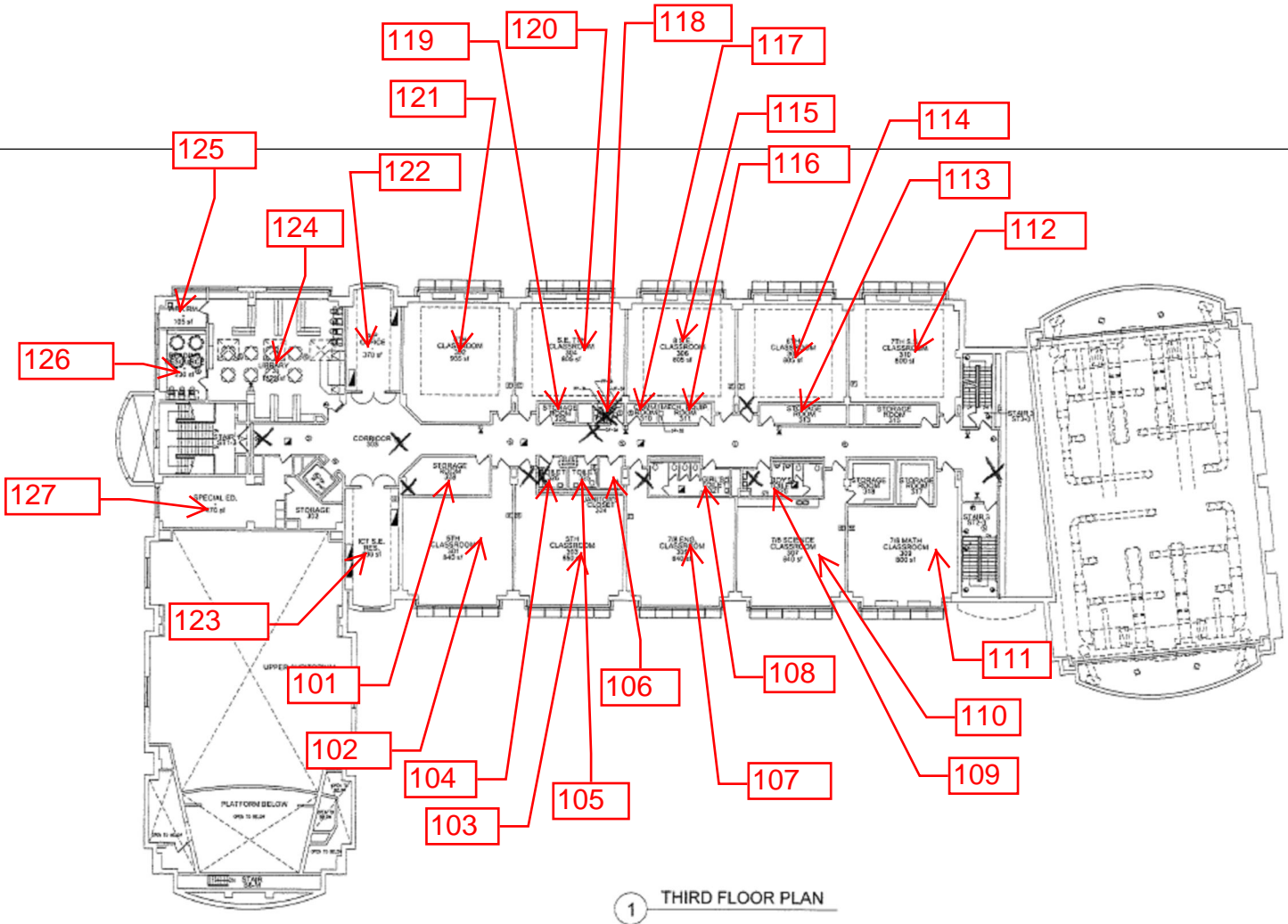
Peirce School 15 175 Westchester Avenue Yonkers, New York 10707		Yonkers Public Schools One Larkin Center Yonkers, New York 10701	
Client Project No.			
 Adelaide Environmental Health Resources, Inc.		1511 Route 22 Brewster, NY 10509 Phone: (845) 278-7710 Fax: (845) 278-7750	
Date:	Version #	Issued For:	Drawing Prepared By:
10/4/2018	1	Mold Survey	JPF
Adelaide Project NO. YONK18392.01-AQ			
SLM -01			



1 SECOND FLOOR PLAN


Second Floor Key Plan - Sample Locations
 Drawing Not to Scale

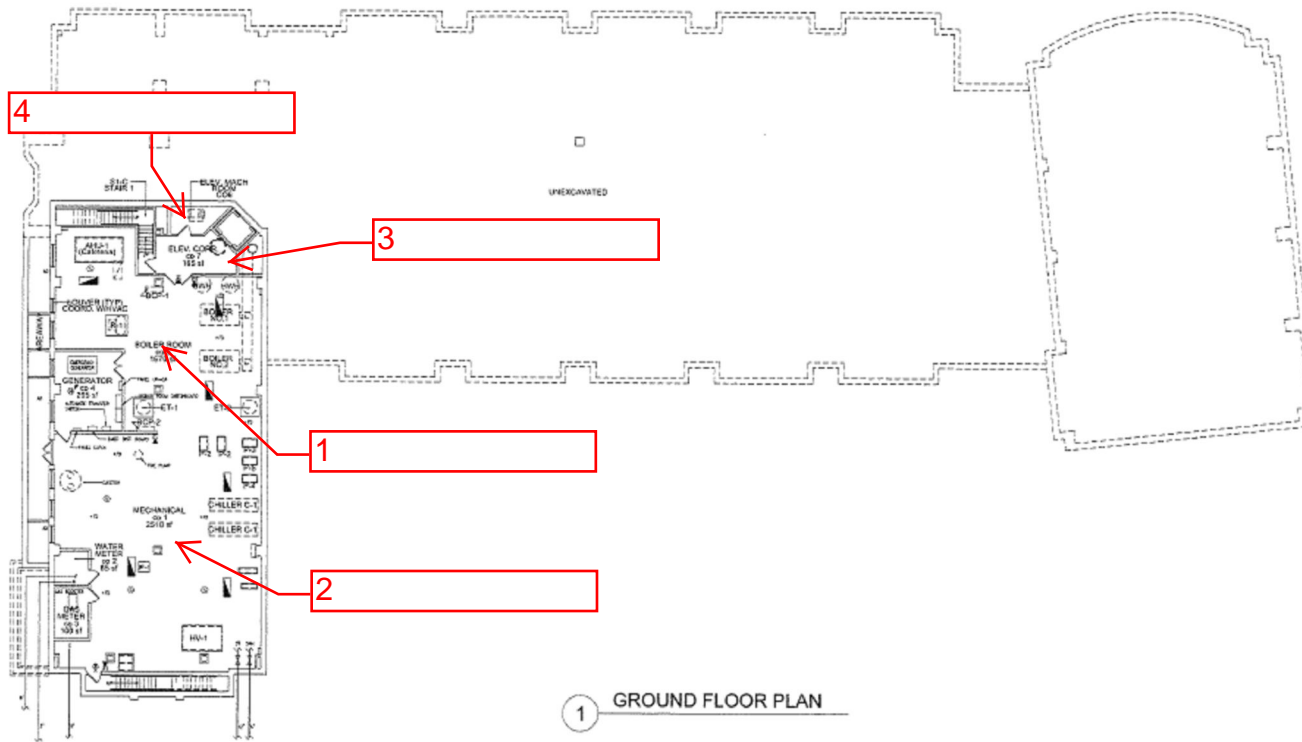
Peirce School 15 175 Westchester Avenue Yonkers, New York 10707		Yonkers Public Schools One Larkin Center Yonkers, New York 10701	
Client Project No.			
 Adelaide Environmental Health Services, Inc. 1511 Route 22 Brewster, NY 10509 Phone: (845) 278-7710 Fax: (845) 278-7750			
Date:	Version #	Issued For:	Drawing Prepared By:
10/4/2018	1	Mold Survey	JPF
Adelaide Project NO.		YONK18392.01-AQ	
SLM -02			



1 THIRD FLOOR PLAN

Third Floor Key Plan - Sample Locations
 Drawing Not to Scale

Peirce School 15 175 Westchester Avenue Yonkers, New York 10707		Yonkers Public Schools One Larkin Center Yonkers, New York 10701	
Client Project No.			
 Adelaide <small>Environmental Health Technology, Inc.</small>		1511 Route 22 Brewster, NY 10509 Phone: (845) 278-7710 Fax: (845) 278-7750	
Date:	Version #	Issued For:	Adelaide Project NO. YONK18392.01-AQ Drawing Prepared By: JPF
10/4/2018	1	Mold Survey	
SLM -03			



Basement Floor Key Plan - Sample Locations

Drawing Not to Scale

Palisades School 15
175 Westchester Avenue
Yonkers, New York 10707

Yonkers Public Schools
One Larkin Center
Yonkers, New York 10701

Client Project No.

Adelaide
Environmental Health Consultants, Inc.
1511 Route 22
Brewster, NY 10570
Phone: (845) 278-7710
Fax: (845) 278-7750

Date: 10/4/2018

Version # 1

Issued For:

Mold Survey

Adelaide Project NO.

YONK18392.01-AQ

Drawing Prepared By:

JPF

SLM -04

APPENDIX B
ANALYTICAL RESULTS



contact@hayesmicrobial.com
http://hayesmicrobial.com/

Analysis Report prepared for

Adelaide Environmental Health Associates, Inc.

1511 Route 22 Suite #C24
Brewster, NY. 10509
Phone: (845) 278-7710 Fax: (845) 278-7750

Job Number: 18392.01-PM
Job Name: PS 15
175 Westchester Avenue
Yonkers, New York 10707
Date Sampled: 10-01-2018
Date Analyzed: 10-02-2018
Report Date: 10-02-2018

EPA Laboratory ID# VA01419



AIHA EMPAT Lab ID# 188863



Mold License: LAB1021



License: #PH-0198



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

HMC #18034617

Adelaide Environmental Health Associates, Inc.
1511 Route 22
Suite #C24
Brewster, NY 10509

October 2, 2018

Client Job Number: 18392.01-PM
Client Job Name: PS 15
175 Westchester Avenue
Yonkers, New York 10707

Dear Adelaide Environmental Health Associates, Inc.,

We would like to thank you for trusting Hayes Microbial for your analytical needs. On October 2, 2018 we received 52 samples by FedEx for the job referenced above. 52 samples were received in good condition.

The results in this analysis pertain only to this job, collected on the stated date and should not be used in the interpretation of any other job. This report may not be duplicated, except in full, without the written consent of Hayes Microbial Consulting, LLC.

This laboratory bears no responsibility for sample collection activities, analytical method limitations, or your use of the test results. Interpretation and use of test results are your responsibility. Any reference to health effects or interpretation of mold levels is strictly the opinion of Hayes Microbial Consulting. In no event, shall Hayes Microbial Consulting or any of its employees be liable for lost profits or any special, incidental or consequential damages arising out of your use of the test results.

Steve Hayes, BSMT(ASCP)
Laboratory Director
Hayes Microbial Consulting, LLC



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.
1511 Route 22, Suite #C24
Brewster, NY 10509
Phone: (845) 278-7710 Fax: (845) 278-7750

Spore Trap Analysis
SOP #HMC101

HMC #18034617

Job Number: 18392.01-PM	Job Name: PS 15	Date Collected: 10/01/2018
Collected by: John Soter	175 Westchester Avenue	Date Received: 10/02/2018
Email: adelaidelabresults@adelaidellc.com	Yonkers, New York 10707	Date Reported: 10/02/2018

HMC ID Number	18034617 - 1	18034617 - 2	18034617 - 3	18034617 - 4
Sample ID#	1	2	3	4
Sample Name	Bsmt - Boiler Room by Door	Bsmt - Boiler Room Chiller #1	Bsmt - Lobby by Elevator	Bsmt - Elevator Machine Room
Sample Volume	75 liters	75 liters	75 liters	75 liters
Reporting Limit	13 spores/M3	13 spores/M3	13 spores/M3	13 spores/M3
Background	2	2	3	2
Fragments	ND	ND	ND	ND

Organism	18034617 - 1			18034617 - 2			18034617 - 3			18034617 - 4		
	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total
Alternaria												
Ascospores	4	53	20.9%	2	27	11.9%	2	27	14.4%	3	40	15.8%
Aspergillus Penicillium							6	80	42.8%	1	13	5.1%
Basidiospores	15	200	79.1%	14	187	82.4%	5	67	35.8%	10	133	52.6%
Bipolaris Drechslera												
Cercospora												
Chaetomium												
Cladosporium				1	13	5.7%	1	13	7.0%	5	67	26.5%
Curvularia												
Epicoccum												
Memnoniella												
Myxomycetes												
Nigrospora												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	19	253		17	227		14	187		19	253	

Water Damage Indicator Common Allergen Slightly Higher than Outside Air Significantly Higher than Outside Air Ratio Abnormality

Signature: P. Ramesh

Date: 10/02/2018

Reviewed by: Stephen A. Hayes

Date: 10/02/2018



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.
1511 Route 22, Suite #C24
Brewster, NY 10509
Phone: (845) 278-7710 Fax: (845) 278-7750

Spore Trap Analysis
SOP #HMC101

HMC #18034617

Job Number: 18392.01-PM	Job Name: PS 15	Date Collected: 10/01/2018
Collected by: John Soter	175 Westchester Avenue	Date Received: 10/02/2018
Email: adelaidelabresults@adelaidellc.com	Yonkers, New York 10707	Date Reported: 10/02/2018

HMC ID Number	18034617 - 5	18034617 - 6	18034617 - 7	18034617 - 8
Sample ID#	5	6	7	8
Sample Name	1st Fl - Gym South	1st Fl - Gym North	1st Fl - Room 106	1st Fl - Girls Bathroom
Sample Volume	75 liters	75 liters	75 liters	75 liters
Reporting Limit	13 spores/M3	13 spores/M3	13 spores/M3	13 spores/M3
Background	2	2	2	2
Fragments	ND	ND	ND	ND

Organism	18034617 - 5			18034617 - 6			18034617 - 7			18034617 - 8		
	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total
Alternaria												
Ascospores	5	67	16.8%	3	40	21.5%	2	27	16.9%	1	13	19.7%
Aspergillus Penicillium												
Basidiospores	24	320	80.0%	10	133	71.5%	8	107	66.9%	4	53	80.3%
Bipolaris Drechslera												
Cercospora												
Chaetomium												
Cladosporium				1	13	7.0%						
Curvularia												
Epicoccum												
Memnoniella												
Myxomycetes							1	13	8.1%			
Nigrospora												
Pithomyces	1	13	3.3%									
Stachybotrys							1	13	8.1%			
Stemphylium												
Torula												
Ulocladium												
Total	30	400		14	186		12	160		5	66	

Water Damage Indicator Common Allergen Slightly Higher than Outside Air Significantly Higher than Outside Air Ratio Abnormality

Signature: P. Ramesh

Date: 10/02/2018

Reviewed by: Stephen A. Hayes

Date: 10/02/2018



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.
1511 Route 22, Suite #C24
Brewster, NY 10509
Phone: (845) 278-7710 Fax: (845) 278-7750

Spore Trap Analysis
SOP #HMC101

HMC #18034617

Job Number: 18392.01-PM	Job Name: PS 15	Date Collected: 10/01/2018
Collected by: John Soter	175 Westchester Avenue	Date Received: 10/02/2018
Email: adelaidelabresults@adelaidellc.com	Yonkers, New York 10707	Date Reported: 10/02/2018

HMC ID Number	18034617 - 9	18034617 - 10	18034617 - 11	18034617 - 12
Sample ID#	9	10	11	12
Sample Name	1st Fl - Computer Room Hallway	1st Fl - Storage	1st Fl - Boys Bathroom	1st Fl - Computer Room
Sample Volume	75 liters	75 liters	75 liters	75 liters
Reporting Limit	13 spores/M3	13 spores/M3	13 spores/M3	13 spores/M3
Background	2	2	2	2
Fragments	ND	ND	ND	ND

Organism	18034617 - 9			18034617 - 10			18034617 - 11			18034617 - 12		
	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total
Alternaria												
Ascospores	1	13	14.0%	1	13	12.3%	3	40	25.0%	4	53	20.9%
Aspergillus Penicillium												
Basidiospores	4	53	57.0%	7	93	87.7%	1	13	8.1%	14	187	73.9%
Bipolaris Drechslera												
Cercospora												
Chaetomium												
Cladosporium	2	27	29.0%				8	107	66.9%	1	13	5.1%
Curvularia												
Epicoccum												
Memnoniella												
Myxomycetes												
Nigrospora												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	7	93		8	106		12	160		19	253	

Water Damage Indicator Common Allergen Slightly Higher than Outside Air Significantly Higher than Outside Air Ratio Abnormality

Signature: P. Ramesh

Date: 10/02/2018

Reviewed by: Stephen A. Hayes

Date: 10/02/2018



HAYES

MICROBIAL CONSULTING
 3005 East Boundary Terrace, #F
 Midlothian, VA 23112, USA
 804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.
 1511 Route 22, Suite #C24
 Brewster, NY 10509
 Phone: (845) 278-7710 Fax: (845) 278-7750

Spore Trap Analysis
 SOP #HMC101

HMC #18034617

Job Number: 18392.01-PM	Job Name: PS 15	Date Collected: 10/01/2018
Collected by: John Soter	175 Westchester Avenue	Date Received: 10/02/2018
Email: adelaidelabresults@adelaidellc.com	Yonkers, New York 10707	Date Reported: 10/02/2018

HMC ID Number	18034617 - 13	18034617 - 14	18034617 - 15	18034617 - 16
Sample ID#	13	14	15	16
Sample Name	1st Fl - Room 1046	1st Fl - Storage 125 West	1st Fl - Storage 125 East	1st Fl - Storage 112A
Sample Volume	75 liters	75 liters	75 liters	75 liters
Reporting Limit	13 spores/M3	13 spores/M3	13 spores/M3	13 spores/M3
Background	2	2	2	3
Fragments	ND	ND	ND	ND

Organism	18034617 - 13			18034617 - 14			18034617 - 15			18034617 - 16		
	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total
Alternaria												
Ascospores	3	40	16.7%	3	40	4.5%	8	107	6.3%	1	13	5.1%
Aspergillus Penicillium							20	267	15.8%			
Basidiospores	12	160	66.7%	64	853	95.5%	96	1280	75.6%	5	67	26.5%
Bipolaris Drechslera												
Cercospora												
Chaetomium												
Cladosporium	3	40	16.7%				3	40	2.4%	12	160	63.2%
Curvularia												
Epicoccum												
Memnoniella												
Myxomycetes												
Nigrospora												
Pithomyces												
Stachybotrys										1	13	5.1%
Stemphylium												
Torula												
Ulocladium												
Total	18	240		67	893		127	1694		19	253	

Water Damage Indicator Common Allergen Slightly Higher than Outside Air Significantly Higher than Outside Air Ratio Abnormality

Signature: P. Ramesh

Date: 10/02/2018

Reviewed by: Stephen A. Hayes

Date: 10/02/2018



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.
1511 Route 22, Suite #C24
Brewster, NY 10509
Phone: (845) 278-7710 Fax: (845) 278-7750

Spore Trap Analysis
SOP #HMC101

HMC #18034617

Job Number: 18392.01-PM	Job Name: PS 15	Date Collected: 10/01/2018
Collected by: John Soter	175 Westchester Avenue	Date Received: 10/02/2018
Email: adelaidelabresults@adelaidellc.com	Yonkers, New York 10707	Date Reported: 10/02/2018

HMC ID Number	18034617 - 17	18034617 - 18	18034617 - 19	18034617 - 20
Sample ID#	17	18	19	20
Sample Name	1st Fl - Comm Room 118	1st Fl - Elec Room 111A	1st Fl - Boys Bathroom	1st Fl - Custodial Closet
Sample Volume	75 liters	75 liters	75 liters	75 liters
Reporting Limit	13 spores/M3	13 spores/M3	13 spores/M3	13 spores/M3
Background	2	3	2	2
Fragments	ND	27/M3	ND	13/M3

Organism	18034617 - 17			18034617 - 18			18034617 - 19			18034617 - 20		
	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total
Alternaria				2	27	6.1%						
Ascospores	2	27	7.8%	3	40	9.1%	1	13	10.9%	3	40	17.7%
Aspergillus Penicillium	6	80	23.1%	5	67	15.2%						
Basidiospores	10	133	38.3%	8	107	24.3%	7	93	78.2%	11	147	65.0%
Bipolaris Drechslera												
Cercospora												
Chaetomium												
Cladosporium	8	107	30.8%	12	160	36.3%	1	13	10.9%	1	13	5.8%
Curvularia				1	13	2.9%						
Epicoccum												
Memnoniella												
Myxomycetes				2	27	6.1%				1	13	5.8%
Nigrospora												
Pithomyces										1	13	5.8%
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	26	347		33	441		9	119		17	226	

Water Damage Indicator Common Allergen Slightly Higher than Outside Air Significantly Higher than Outside Air Ratio Abnormality

Signature: P. Ramesh

Date: 10/02/2018

Reviewed by: Stephen A. Hayes

Date: 10/02/2018



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.
1511 Route 22, Suite #C24
Brewster, NY 10509
Phone: (845) 278-7710 Fax: (845) 278-7750

Spore Trap Analysis
SOP #HMC101

HMC #18034617

Job Number: 18392.01-PM	Job Name: PS 15	Date Collected: 10/01/2018
Collected by: John Soter	175 Westchester Avenue	Date Received: 10/02/2018
Email: adelaidelabresults@adelaidellc.com	Yonkers, New York 10707	Date Reported: 10/02/2018

HMC ID Number	18034617 - 21	18034617 - 22	18034617 - 23	18034617 - 24
Sample ID#	21	22	23	24
Sample Name	1st Fl - Girls Bathroom	1st Fl - Room 101	1st Fl - Room 103	1st Fl - Room 105
Sample Volume	75 liters	75 liters	75 liters	75 liters
Reporting Limit	13 spores/M3	13 spores/M3	13 spores/M3	13 spores/M3
Background	2	2	2	2
Fragments	ND	ND	ND	ND

Organism	18034617 - 21			18034617 - 22			18034617 - 23			18034617 - 24		
	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total
Alternaria												
Ascospores	1	13	14.0%	3	40	20.0%	2	27	11.9%	1	13	8.1%
Aspergillus Penicillium												
Basidiospores	5	67	72.0%	10	133	66.5%	15	200	88.1%	8	107	66.9%
Bipolaris Drechslera												
Cercospora												
Chaetomium												
Cladosporium	1	13	14.0%	2	27	13.5%				3	40	25.0%
Curvularia												
Epicoccum												
Memnoniella												
Myxomycetes												
Nigrospora												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	7	93		15	200		17	227		12	160	

Water Damage Indicator	Common Allergen	Slightly Higher than Outside Air	Significantly Higher than Outside Air	Ratio Abnormality
------------------------	-----------------	----------------------------------	---------------------------------------	-------------------

Signature: P. Ramesh

Date: 10/02/2018

Reviewed by: Stephen A. Hayes

Date: 10/02/2018



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.
1511 Route 22, Suite #C24
Brewster, NY 10509
Phone: (845) 278-7710 Fax: (845) 278-7750

Spore Trap Analysis
SOP #HMC101

HMC #18034617

Job Number: 18392.01-PM	Job Name: PS 15	Date Collected: 10/01/2018
Collected by: John Soter	175 Westchester Avenue	Date Received: 10/02/2018
Email: adelaidelabresults@adelaidellc.com	Yonkers, New York 10707	Date Reported: 10/02/2018

HMC ID Number	18034617 - 25	18034617 - 26	18034617 - 27	18034617 - 28
Sample ID#	25	26	27	28
Sample Name	1st Fl - Room 107	1st Fl - Room 109	1st Fl - Hallway S	1st Fl - Hallway C
Sample Volume	75 liters	75 liters	75 liters	75 liters
Reporting Limit	13 spores/M3	13 spores/M3	13 spores/M3	13 spores/M3
Background	2	2	2	2
Fragments	ND	ND	ND	ND

Organism	18034617 - 25			18034617 - 26			18034617 - 27			18034617 - 28		
	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total
Alternaria												
Ascospores	1	13	7.5%	5	67	9.5%	5	67	21.9%	10	133	11.2%
Aspergillus Penicillium										2	27	2.3%
Basidiospores	12	160	92.5%	48	640	90.5%	16	213	69.6%	64	853	71.9%
Bipolaris Drechslera												
Cercospora												
Chaetomium												
Cladosporium							1	13	4.2%	13	173	14.6%
Curvularia												
Epicoccum												
Memnoniella												
Myxomycetes												
Nigrospora												
Pithomyces												
Stachybotrys							1	13	4.2%			
Stemphylium												
Torula												
Ulocladium												
Total	13	173		53	707		23	306		89	1186	

Water Damage Indicator Common Allergen Slightly Higher than Outside Air Significantly Higher than Outside Air Ratio Abnormality

Signature: P. Ramesh

Date: 10/02/2018

Reviewed by: Stephen A. Hayes

Date: 10/02/2018



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.
1511 Route 22, Suite #C24
Brewster, NY 10509
Phone: (845) 278-7710 Fax: (845) 278-7750

Spore Trap Analysis
SOP #HMC101

HMC #18034617

Job Number: 18392.01-PM	Job Name: PS 15	Date Collected: 10/01/2018
Collected by: John Soter	175 Westchester Avenue	Date Received: 10/02/2018
Email: adelaidelabresults@adelaidellc.com	Yonkers, New York 10707	Date Reported: 10/02/2018

HMC ID Number	18034617 - 29	18034617 - 30	18034617 - 31	18034617 - 32
Sample ID#	29	30	31	32
Sample Name	1st Fl - Hallway N	1st Fl - Electric Room	1st Fl - Mech Room	1st Fl - Grands Room
Sample Volume	75 liters	75 liters	75 liters	75 liters
Reporting Limit	13 spores/M3	13 spores/M3	13 spores/M3	13 spores/M3
Background	2	2	2	2
Fragments	ND	ND	ND	ND

Organism	18034617 - 29			18034617 - 30			18034617 - 31			18034617 - 32		
	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total
Alternaria				1	13	1.5%						
Ascospores	7	93	5.1%	12	160	19.0%	7	93	8.0%	5	67	17.3%
Aspergillus Penicillium												
Basidiospores	128	1707	93.4%	48	640	76.2%	80	1067	92.0%	24	320	82.7%
Bipolaris Drechslera												
Cercospora												
Chaetomium												
Cladosporium	2	27	1.5%	2	27	3.2%						
Curvularia												
Epicoccum												
Memnoniella												
Myxomycetes												
Nigrospora												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	137	1827		63	840		87	1160		29	387	

Water Damage Indicator	Common Allergen	Slightly Higher than Outside Air	Significantly Higher than Outside Air	Ratio Abnormality
------------------------	-----------------	----------------------------------	---------------------------------------	-------------------

Signature: P. Ramesh

Date: 10/02/2018

Reviewed by: Stephen A. Hayes

Date: 10/02/2018



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.
1511 Route 22, Suite #C24
Brewster, NY 10509
Phone: (845) 278-7710 Fax: (845) 278-7750

Spore Trap Analysis
SOP #HMC101

HMC #18034617

Job Number: 18392.01-PM	Job Name: PS 15	Date Collected: 10/01/2018
Collected by: John Soter	175 Westchester Avenue	Date Received: 10/02/2018
Email: adelaidelabresults@adelaidellc.com	Yonkers, New York 10707	Date Reported: 10/02/2018

HMC ID Number	18034617 - 33	18034617 - 34	18034617 - 35	18034617 - 36
Sample ID#	33	34	35	36
Sample Name	1st Fl - Maint. Office	1st Fl - Toilet 108	1st Fl - Toilet 109	1st Fl - Hallway 105
Sample Volume	75 liters	75 liters	75 liters	75 liters
Reporting Limit	13 spores/M3	13 spores/M3	13 spores/M3	13 spores/M3
Background	2	2	2	2
Fragments	13/M3	ND	13/M3	ND

Organism	18034617 - 33			18034617 - 34			18034617 - 35			18034617 - 36		
	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total
Alternaria												
Ascospores	6	80	3.8%	2	27	16.9%	4	53	24.9%	7	93	15.2%
Aspergillus Penicillium										9	120	19.6%
Basidiospores	144	1920	90.0%	10	133	83.1%	12	160	75.1%	30	400	65.3%
Bipolaris Drechslera												
Cercospora												
Chaetomium												
Cladosporium	9	120	5.6%									
Curvularia												
Epicoccum												
Memnoniella												
Myxomycetes	1	13	< 1%									
Nigrospora												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	160	2133		12	160		16	213		46	613	

Water Damage Indicator	Common Allergen	Slightly Higher than Outside Air	Significantly Higher than Outside Air	Ratio Abnormality
------------------------	-----------------	----------------------------------	---------------------------------------	-------------------

Signature: P. Ramesh

Date: 10/02/2018

Reviewed by: Stephen A. Hayes

Date: 10/02/2018



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.
1511 Route 22, Suite #C24
Brewster, NY 10509
Phone: (845) 278-7710 Fax: (845) 278-7750

Spore Trap Analysis
SOP #HMC101

HMC #18034617

Job Number: 18392.01-PM	Job Name: PS 15	Date Collected: 10/01/2018
Collected by: John Soter	175 Westchester Avenue	Date Received: 10/02/2018
Email: adelaidelabresults@adelaidellc.com	Yonkers, New York 10707	Date Reported: 10/02/2018

HMC ID Number	18034617 - 37	18034617 - 38	18034617 - 39	18034617 - 40
Sample ID#	37	38	39	40
Sample Name	1st Fl - Room 102E Staff	1st Fl - Cafeteria East	1st Fl - Cafeteria West	1st Fl - Kitchen
Sample Volume	75 liters	75 liters	75 liters	75 liters
Reporting Limit	13 spores/M3	13 spores/M3	13 spores/M3	13 spores/M3
Background	2	2	2	2
Fragments	ND	ND	ND	ND

Organism	18034617 - 37			18034617 - 38			18034617 - 39			18034617 - 40		
	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total
Alternaria												
Ascospores	12	160	6.7%	11	147	5.9%	30	400	18.3%	3	40	15.8%
Aspergillus Penicillium												
Basidiospores	160	2133	89.4%	176	2347	93.6%	128	1707	78.1%	16	213	84.2%
Bipolaris Drechslera												
Cercospora	1	13	< 1%				1	13	< 1%			
Chaetomium												
Cladosporium	6	80	3.4%				3	40	1.8%			
Curvularia												
Epicoccum												
Memnoniella												
Myxomycetes							2	27	1.2%			
Nigrospora												
Pithomyces				1	13	< 1%						
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	179	2386		188	2507		164	2187		19	253	

Water Damage Indicator Common Allergen Slightly Higher than Outside Air Significantly Higher than Outside Air Ratio Abnormality

Signature: P. Ramesh

Date: 10/02/2018

Reviewed by: Stephen A. Hayes

Date: 10/02/2018



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.
1511 Route 22, Suite #C24
Brewster, NY 10509
Phone: (845) 278-7710 Fax: (845) 278-7750

Spore Trap Analysis
SOP #HMC101

HMC #18034617

Job Number: 18392.01-PM	Job Name: PS 15	Date Collected: 10/01/2018
Collected by: John Soter	175 Westchester Avenue	Date Received: 10/02/2018
Email: adelaidelabresults@adelaidellc.com	Yonkers, New York 10707	Date Reported: 10/02/2018

HMC ID Number	18034617 - 41	18034617 - 42	18034617 - 43	18034617 - 44
Sample ID#	41	42	43	44
Sample Name	1st Fl - 101J Storage	1st Fl - Women's Locker	1st Fl - Toilet	1st Fl - Office
Sample Volume	75 liters	75 liters	75 liters	75 liters
Reporting Limit	13 spores/M3	13 spores/M3	13 spores/M3	13 spores/M3
Background	2	2	2	2
Fragments	ND	ND	ND	ND

Organism	18034617 - 41			18034617 - 42			18034617 - 43			18034617 - 44		
	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total
Alternaria												
Ascospores	16	213	12.2%	8	107	16.7%	1	13	32.5%	2	27	28.7%
Aspergillus Penicillium												
Basidiospores	112	1493	85.5%	40	533	83.3%	2	27	67.5%	5	67	71.3%
Bipolaris Drechslera												
Cercospora												
Chaetomium												
Cladosporium	3	40	2.3%									
Curvularia												
Epicoccum												
Memnoniella												
Myxomycetes												
Nigrospora												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	131	1746		48	640		3	40		7	94	

Water Damage Indicator Common Allergen Slightly Higher than Outside Air Significantly Higher than Outside Air Ratio Abnormality

Signature: P. Ramesh

Date: 10/02/2018

Reviewed by: Stephen A. Hayes

Date: 10/02/2018



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.
1511 Route 22, Suite #C24
Brewster, NY 10509
Phone: (845) 278-7710 Fax: (845) 278-7750

Spore Trap Analysis
SOP #HMC101

HMC #18034617

Job Number: 18392.01-PM	Job Name: PS 15	Date Collected: 10/01/2018
Collected by: John Soter	175 Westchester Avenue	Date Received: 10/02/2018
Email: adelaidelabresults@adelaidellc.com	Yonkers, New York 10707	Date Reported: 10/02/2018

HMC ID Number	18034617 - 45	18034617 - 46	18034617 - 47	18034617 - 48
Sample ID#	45	46	47	48
Sample Name	1st Fl - Men's Locker	1st Fl - Receiving	1st Fl - Food Storage	Exterior - North
Sample Volume	75 liters	75 liters	75 liters	75 liters
Reporting Limit	13 spores/M3	13 spores/M3	13 spores/M3	13 spores/M3
Background	2	2	2	2
Fragments	ND	ND	ND	40/M3

Organism	18034617 - 45			18034617 - 46			18034617 - 47			18034617 - 48		
	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total
Alternaria										1	13	< 1%
Ascospores	5	67	7.2%	3	40	17.6%	5	67	21.8%	144	1920	17.4%
Aspergillus Penicillium										18	240	2.2%
Basidiospores	64	853	91.4%	14	187	82.4%	18	240	78.2%	640	8533	77.5%
Bipolaris Drechslera												
Cercospora												
Chaetomium												
Cladosporium										16	213	1.9%
Curvularia												
Epicoccum												
Memnoniella												
Myxomycetes										6	80	< 1%
Nigrospora										1	13	< 1%
Pithomyces												
Stachybotrys												
Stemphylium												
Torula	1	13	1.4%									
Ulocladium												
Total	70	933		17	227		23	307		826	11012	

Water Damage Indicator Common Allergen Slightly Higher than Outside Air Significantly Higher than Outside Air Ratio Abnormality

Signature: P. Ramesh

Date: 10/02/2018

Reviewed by: Stephen A. Hayes

Date: 10/02/2018



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.
1511 Route 22, Suite #C24
Brewster, NY 10509
Phone: (845) 278-7710 Fax: (845) 278-7750

Spore Trap Analysis
SOP #HMC101

HMC #18034617

Job Number: 18392.01-PM	Job Name: PS 15	Date Collected: 10/01/2018
Collected by: John Soter	175 Westchester Avenue	Date Received: 10/02/2018
Email: adelaidelabresults@adelaidellc.com	Yonkers, New York 10707	Date Reported: 10/02/2018

HMC ID Number	18034617 - 49	18034617 - 50	18034617 - 51	18034617 - 52
Sample ID#	49	50	51	52
Sample Name	Exterior - East	Exterior - South	Exterior - West	Field Blank
Sample Volume	75 liters	75 liters	75 liters	0 liters
Reporting Limit	13 spores/M3	13 spores/M3	13 spores/M3	0 spores/M3
Background	2	2	2	ND
Fragments	13/M3	27/M3	13/M3	ND

Organism	18034617 - 49			18034617 - 50			18034617 - 51			18034617 - 52		
	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total
Alternaria				1	13	< 1%						
Ascospores	160	2133	19.4%	192	2560	18.7%	112	1493	18.3%			
Aspergillus Penicillium	6	80	< 1%	4	53	< 1%	5	67	< 1%			
Basidiospores	640	8533	77.8%	800	10667	77.9%	480	6400	78.6%			
Bipolaris Drechslera												
Cercospora	2	27	< 1%	2	27	< 1%	1	13	< 1%			
Chaetomium												
Cladosporium	10	133	1.2%	12	160	1.2%	8	107	1.3%			
Curvularia	1	13	< 1%									
Epicoccum				2	27	< 1%						
Memnoniella												
Myxomycetes	4	53	< 1%	7	93	< 1%	5	67	< 1%			
Nigrospora												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula				7	93	< 1%						
Ulocladium												
Total	823	10972		1027	13693		611	8147		ND	ND	

Water Damage Indicator Common Allergen Slightly Higher than Outside Air Significantly Higher than Outside Air Ratio Abnormality

Signature: P. Ramesh

Date: 10/02/2018

Reviewed by: Stephen A. Hayes

Date: 10/02/2018



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.
1511 Route 22, Suite #C24
Brewster, NY 10509
Phone: (845) 278-7710 Fax: (845) 278-7750

Spore Trap Information

HMC #18034617

Reporting Limit	The Reporting Limit is the lowest number of spores that can be detected based on the total volume of the sample collected and the percentage of the slide that is counted. At Hayes Microbial, 100% of the slide is read so the LOD is based solely on the total volume. Raw spore counts that exceed 500 spores will be estimated.
Blanks	Results have not been corrected for field or laboratory blanks.
Background	<p>The Background is the amount of debris that is present in the sample. This debris consists of skin cells, dirt, dust, pollen, drywall dust and other organic and non-organic matter. As the background density increases, the likelihood of spores, especially small spores such as those of Aspergillus and Penicillium may be obscured. The background is rated on a scale of 1 to 4 and each level is determined as follows:</p> <p>ND : No background detected. (Pump or cassette malfunction.) Recollect sample.</p> <p>1 : <5% of field occluded. No spores will be uncountable.</p> <p>2 : 5-25% of field occluded.</p> <p>3 : 25-75% of field occluded.</p> <p>4 : 75-90% of field occluded.</p> <p>5 : >90% of field occluded. Suggest recollection of sample.</p>
Fragments	Fragments are small pieces of fungal mycelium or spores. They are not identifiable as to type and when present in very large numbers, may indicate the presence of mold amplification.
Indoor/Outdoor Comparisons	There are no national standards for the numbers of fungal spores that may be present in the indoor environment. As a general rule and guideline that is widely accepted in the indoor air quality field, the numbers and types of spores that are present in the indoor environment should not exceed those that are present outdoors at any given time. There will always be some mold spores present in "normal" indoor environments. The purpose of sampling and counting spores is to help determine whether an abnormal condition exists within the indoor environment and if it does, to help pinpoint the area of contamination. Spore counts should not be used as the sole determining factor of mold contamination. There are many factors that can cause anomalies in the comparison of indoor and outdoor samples due to the dynamic nature of both of those environments.
Water Damage Indicators	These molds are commonly seen in conditions of prolonged water intrusion and usually indicate a problem.
Common Allergens	Although all molds are potential allergens, these are the most common allergens that may be found indoors.
Slightly Higher than Outside Air	The spore count is slightly higher than the outside count and may or may not indicate a source of contamination.
Significantly Higher than Outside Air	The spore count is significantly higher than the outdoor count and probably indicates a source of contamination.
Ratio Abnormality	The types of spores found indoors should be similar to the ones that were identified in the outdoor sample. Significant increases (more than 25%) in the ratio of a particular spore type may indicate the presence of abnormal levels of mold, even if the total number of spores of that type is lower in the indoor environment than it was outdoors.
Color Note	Fungi that are present in indoor samples at levels lower than 200 per cubic meter are not color coded on the report, unless they are one of the water damage indicators.



Alternaria

Habitat: Commonly found outdoors in soil and decaying plants. Indoors, it is commonly found on window sills and other horizontal surfaces.

Health Effects: A common allergen and has been associated with hypersensitivity pneumonitis. Alternaria is capable of producing toxic metabolites which may be associated with disease in humans or animals. Occasionally an agent of onychomycosis, ulcerated cutaneous infection and chronic sinusitis, principally in the immunocompromised patient.

Ascospores

Habitat: A large group consisting of more than 3000 species of fungi. Common plant pathogens and outdoor numbers become very high following rain. Most of the genera are indistinguishable by spore trap analysis and are combined on the report.

Health Effects: Health affects are poorly studied, but many are likely to be allergenic.

Aspergillus|Penicillium

Habitat: The most common fungi isolated from the environment. Very common in soil and on decaying plant material. Are able to grow well indoors on a wide variety of substrates.

Health Effects: This group contains common allergens and many can cause hypersensitivity pneumonitis. They may cause extrinsic asthma, and many are opportunistic pathogens. Many species produce mycotoxins which may be associated with disease in humans and other animals. Toxin production is dependent on the species, the food source, competition with other organisms, and other environmental conditions.

Basidiospores

Habitat: A common group of Fungi that includes the mushrooms and bracket fungi. They are saprophytes and plant pathogens. In wet conditions they can cause structural damage to buildings.

Health Effects: Common allergens and are also associated with hypersensitivity pneumonitis.

Cercospora

Habitat: Found on wood and decaying plant matter.

Health Effects: Health effects are poorly studied.

Cladosporium

Habitat: One of the most common genera worldwide. Found in soil and plant debris and on the leaf surfaces of living plants. The outdoor numbers are lower in the winter and often relatively high in the summer, especially in high humidity. The outdoor numbers often spike in the late afternoon and evening. Indoors, it can be found growing on textiles, wood, sheetrock, moist window sills and in HVAC supply ducts.

Health Effects: A common allergen, producing more than 10 allergenic antigens and a common cause of hypersensitivity pneumonitis.

Curvularia

Habitat: They exist in soil and plant debris, and are plant pathogens.

Health Effects: They are allergenic and a common cause of allergic fungal sinusitis. An occasional cause of human infection, including keratitis, sinusitis, onychomycosis, mycetoma, pneumonia, endocarditis and disseminated infection, primarily in the immunocompromised.



Epicoccum

Habitat: It is found in soil and plant litter and is a plant pathogen. It can grow indoors on a variety of substrates, including paper and textiles and is commonly found on wet drywall.

Health Effects: It is a common allergen. No cases of infection have been reported in humans.

Myxomycetes

Habitat: Found on decaying plant material and as a plant pathogen.

Health Effects: Some allergenic properties reported, but generally pose no health concerns to humans.

Nigrospora

Habitat: Found on wood, soil and decaying plant matter.

Health Effects: Health effects are poorly studied.

Pithomyces

Habitat: Common fungus isolated from soil, decaying plant material. Rarely found indoors.

Health Effects: Allergenic properties are poorly studied. No cases of infection in humans.

Stachybotrys

Habitat: Commonly found in soil and on decaying plant material. It is cellulolytic, and can be found indoors on wet materials containing cellulose, such as wallboard, ceiling tile, and other paper-based materials. It is found outdoors on decaying plant material although it is rarely detected on outdoor air samples.

Health Effects: Allergenic properties are poorly studied and no cases of infection have been reported in humans. They are capable of producing potent tricothecene mycotoxins. The toxins produced by this fungus can suppress the immune system affecting the lymphoid tissue and the bone marrow. The mycotoxin is also reported to be a liver and kidney carcinogen.

Torula

Habitat: Found in soil and on wood and grasses. Occasionally found growing indoors on cellulose containing materials.

Health Effects: A known allergen. No known cases of human infection.



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.

1511 Route 22 Suite #C24
Brewster, NY 10509
(845) 278-7710
Fax: (845) 278-7750

Chain of Custody

Form v.2101208.1

HMC #
034617

Job Number: **18392.01-PM** Job Name: **PS 15** Collector: John Soter Email: **adelaidelabresults@adelaidellc.com**

Date Collected: **9/29/18** **175 Westchester Avenue** Notes:

Mobile: **10/1/18** **Yonkers, New York 10707**

Sample #	Sample Name	Analysis Type	Volume	TAT	Notes
1	Bsmt - Boiler Room - By Door	S	75 L	RUSH	
2	↓ - Chiller #1	S	75 L	RUSH	
3	↓ - Lobby - By Elevator	S	75 L	RUSH	
4	↓ - Elevator Machine Room	S	75 L	RUSH	
5	1st Fl. - Gym - South	S	75 L	RUSH	
6	↓ - North	S	75 L	RUSH	
7	↓ - Room 106	S	75 L	RUSH	
8	↓ - Girls Bathroom	S	75 L	RUSH	
9	- Computer Room Hallway	S	75 L	RUSH	
10	- Storage	S	75 L	RUSH	
11	- Boys Bathroom	S	75 L	RUSH	
12	- Computer Room	S	75 L	RUSH	

Analysis Type	Description	TAT	Acceptable Sample Types
Spore Trap S	Identification & Enumeration of Fungal Spores	24 Hour	Spore Trap cassettes, Impact slides
S+	I & E of Fungal Spores + total dander, fiber and pollen count	24 Hour	Spore Trap cassettes, Impact slides
Direct ID D	ID and Semi-quantitative enumeration of spores and mycelium	24 Hour	Tape, Bio-tape, swab, bulk, agar plate for ID only
D+	ID and Enumeration with spores count	24 Hour	Tape, Bio-tape, swab, bulk, agar plate for ID only
Culture	C1	7 Day	Anderson Air Plate, Swab, Bulk
	C2	4 Day	Anderson Air Plate, Swab, Bulk
	C3	7 Day	Anderson Air Plate, Swab, Bulk
	C3	7 Day	Anderson Air Plate, Swab, Bulk
	C5	2 Day	Anderson Air Plate, Swab, Bulk
Dust Mite A1	Semi-quantitative analysis of dust mite allergen	24 Hour	Bulk Dust
Particle P	Total Particulate Analysis	24 Hour	Spore Trap cassettes, Impact slides, Bio-Tape

Relinquished by: *[Signature]* Date: **10/1/18** Rcvd By: *[Signature]* Date: **10/2/18** Time:



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.

1511 Route 22 Suite #C24
Brewster, NY 10509
(845) 278-7710
Fax: (845) 278-7750

Chain of Custody

Form v.2101208.1

HMC #

034617

Job Number: 18392.01-PM	Job Name: PS 15	Collector: John Soter	Email: adelaidelabresults@adelaidellc.com
Date Collected: 9/29/18 10/1/18	175 Westchester Avenue	Notes:	
Mobile:	Yonkers, New York 10707		

Sample #	Sample Name	Analysis Type	Volume	TAT	Notes
13	1st Floor - Room 1046	S	75 L	RUSH	
14	- Storage 125 - West	S	75 L	RUSH	
15	- Storage 125 - East	S	75 L	RUSH	
16	- Storage 112A	S	75 L	RUSH	
17	- Comm. Room 118	S	75 L	RUSH	
18	- Elec. Room 111A	S	75 L	RUSH	
19	- Boys Bathroom	S	75 L	RUSH	
20	- Custodial Closet	S	75 L	RUSH	
21	- Girls Bathroom	S	75 L	RUSH	
22	- Room 101	S	75 L	RUSH	
23	- Room 103	S	75 L	RUSH	
24	- Room 105	S	75 L	RUSH	

Analysis Type	Description	TAT	Acceptable Sample Types
Spore Trap S	Identification & Enumeration of Fungal Spores	24 Hour	Spore Trap cassettes, Impact slides
S+	I & E of Fungal Spores + total dander, fiber and pollen count	24 Hour	Spore Trap cassettes, Impact slides
Direct ID D	ID and Semi-quantitative enumeration of spores and mycelium	24 Hour	Tape, Bio-tape, swab, bulk, agar plate for ID only
D+	ID and Enumeration with spores count	24 Hour	Tape, Bio-tape, swab, bulk, agar plate for ID only
Culture C1	Identification & Enumeration of Mold only	7 Day	Anderson Air Plate, Swab, Bulk
	Identification & Enumeration of Bacteria only	4 Day	Anderson Air Plate, Swab, Bulk
	Identification & Enumeration of Mold and Bacteria	7 Day	Anderson Air Plate, Swab, Bulk
	Colliform Screen for Sewage Bacteria	2 Day	Anderson Air Plate, Swab, Bulk
Dust Mite A1	Semi-quantitative analysis of dust mite allergen	24 Hour	Bulk Dust
Particle P	Total Particulate Analysis	24 Hour	Spore Trap cassettes, Impact slides, Bio-Tape

Relinquished by:	Date: 10/1/18	Rcvd By:	Date: 10/2/18	Time:
------------------	---------------	----------	---------------	-------

Hayes Microbial Consulting :: 3005 East Boundary Terrace, Suite F :: Midlothian, VA 23112 :: USA :: www.hayesmicrobial.com :: info@hayesmicrobial.com



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.

1511 Route 22 Suite #C24
Brewster, NY 10509
(845) 278-7710
Fax: (845) 278-7750

Chain of Custody

Form v.2101208.1

HMC #
034617

Job Number: 18392.01-PM	Job Name: PS 15	Collector: John Soter	Email: adelaidelabresults@adelaidellc.com
Date Collected: 9/29/18	175 Westchester Avenue	Notes:	
Mobile: 10/1/18	Yonkers, New York 10707		

Sample #	Sample Name	Analysis Type	Volume	TAT	Notes
25	1 st Floor - Room 107	S	75 L	RUSH	
26	- Room 109	S	75 L	RUSH	
27	- Hallway - S	S	75 L	RUSH	
28	- C	S	75 L	RUSH	
29	- N	S	75 L	RUSH	
30	- Electric Room	S	75 L	RUSH	
31	- Mech. Room	S	75 L	RUSH	
32	- Grand's Room	S	75 L	RUSH	
33	- Maint. office	S	75 L	RUSH	
34	- Toilet 108	S	75 L	RUSH	
35	- Toilet 109	S	75 L	RUSH	
36	- Hallway 105	S	75 L	RUSH	

Analysis Type	Description	TAT	Acceptable Sample Types
Spore Trap S	Identification & Enumeration of Fungal Spores	24 Hour	Spore Trap cassettes, Impact slides
	I & E of Fungal Spores + total dander, fiber and pollen count	24 Hour	Spore Trap cassettes, Impact slides
Direct ID D	ID and Semi-quantative enumeration of spores and mycelium	24 Hour	Tape, Bio-tape, swab, bulk, agar plate for ID only
	ID and Enumeration with spores count	24 Hour	Tape, Bio-tape, swab, bulk, agar plate for ID only
Culture C1	Identification & Enumeration of Mold only	7 Day	Anderson Air Plate, Swab, Bulk
	Identification & Enumeration of Bacteria only	4 Day	Anderson Air Plate, Swab, Bulk
	Identification & Enumeration of Mold and Bacteria	7 Day	Anderson Air Plate, Swab, Bulk
	Coliform Screen for Sewage Bacteria	2 Day	Anderson Air Plate, Swab, Bulk
Dust Mite A1	Semi-quantative analysis of dust mite allergen	24 Hour	Bulk Dust
Particle P	Total Particulate Analysis	24 Hour	Spore Trap cassettes, Impact slides, Bio-Tape

Relinquished by:	Date: 10/1/18	Rcvd By:	Date: 10/2/18	Time:
------------------	----------------------	----------	----------------------	-------



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.

1511 Route 22 Suite #C24
Brewster, NY 10509
(845) 278-7710
Fax: (845) 278-7750

Chain of Custody

Form v.2101208.1

HMC #

034617

Job Number: 18392.01-PM	Job Name: PS 15	Collector: John Soter	Email: adelaidelabresults@adelaidell.com
Date Collected: 9/29/18	175 Westchester Avenue	Notes:	
Mobile: 10/1/18	Yonkers, New York 10707		

Sample #	Sample Name	Analysis Type	Volume	TAT	Notes
37	1st Fl. - Room 1024 - Staff	S	75 L	RUSH	
38	- Cafeteria - East	S	75 L	RUSH	
39	- West	S	75 L	RUSH	
40	- Kitchen	S	75 L	RUSH	
41	- 101 - Storage	S	75 L	RUSH	
42	- Women's Locker	S	75 L	RUSH	
43	- Toilet	S	75 L	RUSH	
44	- Office	S	75 L	RUSH	
45	- Men's Locker	S	75 L	RUSH	
46	- Receiving	S	75 L	RUSH	
47	- Food Storage	S	75 L	RUSH	
48	Exterior - North	S	75 L	RUSH	

Analysis Type	Description	TAT	Acceptable Sample Types
Spore Trap S	Identification & Enumeration of Fungal Spores	24 Hour	Spore Trap cassettes, Impact slides
	I & E of Fungal Spores + total dander, fiber and pollen count	24 Hour	Spore Trap cassettes, Impact slides
Direct ID D	ID and Semi-quantative enumeration of spores and mycelium	24 Hour	Tape, Bio-tape, swab, bulk, agar plate for ID only
	ID and Enumeration with spores count	24 Hour	Tape, Bio-tape, swab, bulk, agar plate for ID only
Culture C	Identification & Enumeration of Mold only	7 Day	Anderson Air Plate, Swab, Bulk
	Identification & Enumeration of Bacteria only	4 Day	Anderson Air Plate, Swab, Bulk
	Identification & Enumeration of Mold and Bacteria	7 Day	Anderson Air Plate, Swab, Bulk
	Coliform Screen for Sewage Bacteria	2 Day	Anderson Air Plate, Swab, Bulk
Dust Mite A1	Semi-quantative analysis of dust mite allergen	24 Hour	Bulk Dust
Particle P	Total Particulate Analysis	24 Hour	Spore Trap cassettes, Impact slides, Bio-Tape

Relinquished by:	Date: 10/1/18	Rcvd By: TP	Date: 10/2/18	Time:
------------------	---------------	-------------	---------------	-------



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.

1511 Route 22 Suite #C24
Brewster, NY 10509
(845) 278-7710
Fax: (845) 278-7750

Chain of Custody

Form v.2101208.1

HMC #
034617

Job Number: 18392.01-PM	Job Name: PS 15	Collector: John Soter	Email: adelaidelabresults@adelaidellc.com
Date Collected: 9/29/18	175 Westchester Avenue	Notes:	
Mobile: 10/1/18	Yonkers, New York 10707		

Sample #	Sample Name	Analysis Type	Volume	TAT	Notes
49	Exterior - East	S	75 L	RUSH	
50	- South	S	75 L	RUSH	
51	- West	S	75 L	RUSH	
52	Field Blank	S	75 L	RUSH	
		S	75 L	RUSH	
		S	75 L	RUSH	
		S	75 L	RUSH	
		S	75 L	RUSH	
		S	75 L	RUSH	
		S	75 L	RUSH	
		S	75 L	RUSH	
		S	75 L	RUSH	

Analysis Type	Description	TAT	Acceptable Sample Types
Spore Trap S	Identification & Enumeration of Fungal Spores	24 Hour	Spore Trap cassettes, Impact slides
S+	I & E of Fungal Spores + total dander, fiber and pollen count	24 Hour	Spore Trap cassettes, Impact slides
Direct ID D	ID and Semi-quantative enumeration of spores and mycelium	24 Hour	Tape, Bio-tape, swab, bulk, agar plate for ID only
D+	ID and Enumeration with spores count	24 Hour	Tape, Bio-tape, swab, bulk, agar plate for ID only
Culture C1	Identification & Enumeration of Mold only	7 Day	Anderson Air Plate, Swab, Bulk
C2	Identification & Enumeration of Bacteria only	4 Day	Anderson Air Plate, Swab, Bulk
C3	Identification & Enumeration of Mold and Bacteria	7 Day	Anderson Air Plate, Swab, Bulk
C5	Coliform Screen for Sewage Bacteria	2 Day	Anderson Air Plate, Swab, Bulk
Dust Mite A1	Semi-quantative analysis of dust mite allergen	24 Hour	Bulk Dust
Particle P	Total Particulate Analysis	24 Hour	Spore Trap cassettes, Impact slides, Bio-Tape

Relinquished by: <i>[Signature]</i>	Date: 10/1/18	Rcvd By: <i>[Signature]</i>	Date: 10/2/18	Time:
-------------------------------------	---------------	-----------------------------	---------------	-------



contact@hayesmicrobial.com
http://hayesmicrobial.com/

Analysis Report prepared for

Adelaide Environmental Health Associates, Inc.

1511 Route 22 Suite #C24
Brewster, NY. 10509
Phone: (845) 278-7710 Fax: (845) 278-7750

Job Number: 18392.01-PM
Job Name: PS 15
175 Westchester Avenue
Yonkers, New York 10707
Date Sampled: 10-01-2018
Date Analyzed: 10-02-2018
Report Date: 10-02-2018

EPA Laboratory ID# VA01419



AIHA EMPAT Lab ID# 188863



Mold License: LAB1021



License: #PH-0198



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

HMC #18034658

Adelaide Environmental Health Associates, Inc.
1511 Route 22
Suite #C24
Brewster, NY 10509

October 2, 2018

Client Job Number: 18392.01-PM
Client Job Name: PS 15
175 Westchester Avenue
Yonkers, New York 10707

Dear Adelaide Environmental Health Associates, Inc.,

We would like to thank you for trusting Hayes Microbial for your analytical needs. On October 2, 2018 we received 48 samples by FedEx for the job referenced above. 48 samples were received in good condition.

The results in this analysis pertain only to this job, collected on the stated date and should not be used in the interpretation of any other job. This report may not be duplicated, except in full, without the written consent of Hayes Microbial Consulting, LLC.

This laboratory bears no responsibility for sample collection activities, analytical method limitations, or your use of the test results. Interpretation and use of test results are your responsibility. Any reference to health effects or interpretation of mold levels is strictly the opinion of Hayes Microbial Consulting. In no event, shall Hayes Microbial Consulting or any of its employees be liable for lost profits or any special, incidental or consequential damages arising out of your use of the test results.

Steve Hayes, BSMT(ASCP)
Laboratory Director
Hayes Microbial Consulting, LLC



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.
1511 Route 22, Suite #C24
Brewster, NY 10509
Phone: (845) 278-7710 Fax: (845) 278-7750

Spore Trap Analysis
SOP #HMC101

HMC #18034658

Job Number: 18392.01-PM	Job Name: PS 15	Date Collected: 10/01/2018
Collected by: John Soter	175 Westchester Avenue	Date Received: 10/02/2018
Email: adelaidelabresults@adelaidellc.com	Yonkers, New York 10707	Date Reported: 10/02/2018

HMC ID Number	18034658 - 1	18034658 - 2	18034658 - 3	18034658 - 4
Sample ID#	53	54	55	56
Sample Name	2nd Fl - Room 210	2nd Fl - Storage 218	2nd Fl - Storage 216	2nd Fl - Room 208
Sample Volume	75 liters	75 liters	75 liters	75 liters
Reporting Limit	13 spores/M3	13 spores/M3	13 spores/M3	13 spores/M3
Background	2	2	2	2
Fragments	13/M3	ND	ND	ND

Organism	18034658 - 1			18034658 - 2			18034658 - 3			18034658 - 4		
	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total
Alternaria												
Ascospores	1	13	3.5%	2	27	8.8%				1	13	10.8%
Aspergillus Penicillium												
Basidiospores	3	40	10.7%	3	40	13.0%	1	13	8.9%	3	40	33.3%
Bipolaris Drechslera												
Cercospora												
Chaetomium												
Cladosporium	24	320	85.8%	14	187	60.9%	7	93	63.7%	5	67	55.8%
Curvularia												
Epicoccum												
Memnoniella												
Myxomycetes				3	40	13.0%	3	40	27.4%			
Nigrospora												
Pithomyces				1	13	4.2%						
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	28	373		23	307		11	146		9	120	

Water Damage Indicator Common Allergen Slightly Higher than Outside Air Significantly Higher than Outside Air Ratio Abnormality

Signature: P. Ramesh

Date: 10/02/2018

Reviewed by: Stephen A. Hayes

Date: 10/02/2018



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.
1511 Route 22, Suite #C24
Brewster, NY 10509
Phone: (845) 278-7710 Fax: (845) 278-7750

Spore Trap Analysis
SOP #HMC101

HMC #18034658

Job Number: 18392.01-PM	Job Name: PS 15	Date Collected: 10/01/2018
Collected by: John Soter	175 Westchester Avenue	Date Received: 10/02/2018
Email: adelaidelabresults@adelaidellc.com	Yonkers, New York 10707	Date Reported: 10/02/2018

HMC ID Number	18034658 - 5	18034658 - 6	18034658 - 7	18034658 - 8
Sample ID#	57	58	59	60
Sample Name	2nd Fl - Room 206	2nd Fl - Storage 211	2nd Fl - Comm Rm 214	2nd Fl - Elec Room
Sample Volume	75 liters	75 liters	75 liters	75 liters
Reporting Limit	13 spores/M3	13 spores/M3	13 spores/M3	13 spores/M3
Background	2	2	2	2
Fragments	ND	13/M3	ND	ND

Organism	18034658 - 5			18034658 - 6			18034658 - 7			18034658 - 8		
	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total
Alternaria												
Ascospores	1	13	2.5%				1	13	7.0%	1	13	10.8%
Aspergillus Penicillium	28	373	71.9%									
Basidiospores	3	40	7.7%	2	27	12.6%	7	93	50.0%	2	27	22.5%
Bipolaris Drechslera	1	13	2.5%									
Cercospora												
Chaetomium												
Cladosporium	5	67	12.9%	11	147	68.7%	5	67	36.0%	5	67	55.8%
Curvularia												
Epicoccum												
Memnoniella												
Myxomycetes	1	13	2.5%	3	40	18.7%	1	13	7.0%	1	13	10.8%
Nigrospora												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	39	519		16	214		14	186		9	120	

Water Damage Indicator Common Allergen Slightly Higher than Outside Air Significantly Higher than Outside Air Ratio Abnormality

Signature: P. Ramesh

Date: 10/02/2018

Reviewed by: Stephen A. Hayes

Date: 10/02/2018



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.
1511 Route 22, Suite #C24
Brewster, NY 10509
Phone: (845) 278-7710 Fax: (845) 278-7750

Spore Trap Analysis
SOP #HMC101

HMC #18034658

Job Number: 18392.01-PM	Job Name: PS 15	Date Collected: 10/01/2018
Collected by: John Soter	175 Westchester Avenue	Date Received: 10/02/2018
Email: adelaidelabresults@adelaidellc.com	Yonkers, New York 10707	Date Reported: 10/02/2018

HMC ID Number	18034658 - 9	18034658 - 10	18034658 - 11	18034658 - 12
Sample ID#	61	62	63	64
Sample Name	2nd Fl - Staff Only	2nd Fl - Room 204	2nd Fl - Staff Only 209	2nd Fl - Room 201
Sample Volume	75 liters	75 liters	75 liters	75 liters
Reporting Limit	13 spores/M3	13 spores/M3	13 spores/M3	13 spores/M3
Background	2	2	2	2
Fragments	ND	ND	ND	ND

Organism	18034658 - 9			18034658 - 10			18034658 - 11			18034658 - 12		
	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total
Alternaria												
Ascospores				2	27	13.5%	4	53	26.5%	1	13	10.8%
Aspergillus Penicillium												
Basidiospores	6	80	60.2%	13	173	86.5%	7	93	46.5%	8	107	89.2%
Bipolaris Drechslera												
Cercospora												
Chaetomium												
Cladosporium	4	53	39.8%				2	27	13.5%			
Curvularia												
Epicoccum												
Memnoniella												
Myxomycetes												
Nigrospora												
Pithomyces												
Stachybotrys							2	27	13.5%			
Stemphylium												
Torula												
Ulocladium												
Total	10	133		15	200		15	200		9	120	

Water Damage Indicator Common Allergen Slightly Higher than Outside Air Significantly Higher than Outside Air Ratio Abnormality

Signature: P. Ramesh Date: 10/02/2018 Reviewed by: Stephen A. Hayes Date: 10/02/2018



HAYES

MICROBIAL CONSULTING
 3005 East Boundary Terrace, #F
 Midlothian, VA 23112, USA
 804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.
 1511 Route 22, Suite #C24
 Brewster, NY 10509
 Phone: (845) 278-7710 Fax: (845) 278-7750

Spore Trap Analysis
 SOP #HMC101

HMC #18034658

Job Number: 18392.01-PM	Job Name: PS 15	Date Collected: 10/01/2018
Collected by: John Soter	175 Westchester Avenue	Date Received: 10/02/2018
Email: adelaidelabresults@adelaidellc.com	Yonkers, New York 10707	Date Reported: 10/02/2018

HMC ID Number	18034658 - 13	18034658 - 14	18034658 - 15	18034658 - 16
Sample ID#	65	66	67	68
Sample Name	2nd Fl - Staff Bathroom 230	2nd Fl - Staff Bathroom 229	2nd Fl - Room 203	2nd Fl - Room 205
Sample Volume	75 liters	75 liters	75 liters	75 liters
Reporting Limit	13 spores/M3	13 spores/M3	13 spores/M3	13 spores/M3
Background	2	2	2	2
Fragments	ND	ND	ND	ND

Organism	18034658 - 13			18034658 - 14			18034658 - 15			18034658 - 16		
	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total
Alternaria												
Ascospores	1	13	6.5%	1	13	6.5%	3	40	21.5%	3	40	17.6%
Aspergillus Penicillium				3	40	20.1%						
Basidiospores	12	160	80.4%	6	80	40.2%	10	133	71.5%	14	187	82.4%
Bipolaris Drechslera												
Cercospora												
Chaetomium												
Cladosporium	1	13	6.5%	4	53	26.6%						
Curvularia												
Epicoccum												
Memnoniella												
Myxomycetes	1	13	6.5%	1	13	6.5%	1	13	7.0%			
Nigrospora												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	15	199		15	199		14	186		17	227	

Water Damage Indicator	Common Allergen	Slightly Higher than Outside Air	Significantly Higher than Outside Air	Ratio Abnormality
------------------------	-----------------	----------------------------------	---------------------------------------	-------------------

Signature: P. Ramesh

Date: 10/02/2018

Reviewed by: Stephen A. Hayes

Date: 10/02/2018



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.
1511 Route 22, Suite #C24
Brewster, NY 10509
Phone: (845) 278-7710 Fax: (845) 278-7750

Spore Trap Analysis
SOP #HMC101

HMC #18034658

Job Number: 18392.01-PM	Job Name: PS 15	Date Collected: 10/01/2018
Collected by: John Soter	175 Westchester Avenue	Date Received: 10/02/2018
Email: adelaidelabresults@adelaidellc.com	Yonkers, New York 10707	Date Reported: 10/02/2018

HMC ID Number	18034658 - 17	18034658 - 18	18034658 - 19	18034658 - 20
Sample ID#	69	70	71	72
Sample Name	2nd Fl - Girls Toilet	2nd Fl - Boys Toilet	2nd Fl - Room 207	2nd Fl - Storage 223
Sample Volume	75 liters	75 liters	75 liters	75 liters
Reporting Limit	13 spores/M3	13 spores/M3	13 spores/M3	13 spores/M3
Background	2	2	2	2
Fragments	ND	ND	13/M3	ND

Organism	18034658 - 17			18034658 - 18			18034658 - 19			18034658 - 20		
	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total
Alternaria												
Ascospores	5	67	27.9%	1	13	12.3%	1	13	8.2%	1	13	9.8%
Aspergillus Penicillium												
Basidiospores	12	160	66.7%	5	67	63.2%	7	93	58.5%	3	40	30.1%
Bipolaris Drechslera												
Cercospora												
Chaetomium												
Cladosporium	1	13	5.4%	1	13	12.3%	4	53	33.3%	6	80	60.2%
Curvularia												
Epicoccum												
Memnoniella												
Myxomycetes				1	13	12.3%						
Nigrospora												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	18	240		8	106		12	159		10	133	

Water Damage Indicator Common Allergen Slightly Higher than Outside Air Significantly Higher than Outside Air Ratio Abnormality

Signature: P. Ramesh

Date: 10/02/2018

Reviewed by: Stephen A. Hayes

Date: 10/02/2018



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.
1511 Route 22, Suite #C24
Brewster, NY 10509
Phone: (845) 278-7710 Fax: (845) 278-7750

Spore Trap Analysis
SOP #HMC101

HMC #18034658

Job Number: 18392.01-PM	Job Name: PS 15	Date Collected: 10/01/2018
Collected by: John Soter	175 Westchester Avenue	Date Received: 10/02/2018
Email: adelaidelabresults@adelaidellc.com	Yonkers, New York 10707	Date Reported: 10/02/2018

HMC ID Number	18034658 - 21	18034658 - 22	18034658 - 23	18034658 - 24
Sample ID#	73	74	75	76
Sample Name	2nd Fl - Storage 222	2nd Fl - Room 209	2nd Fl - Guidance Suite	2nd Fl - Guidance Conference
Sample Volume	75 liters	75 liters	75 liters	75 liters
Reporting Limit	13 spores/M3	13 spores/M3	13 spores/M3	13 spores/M3
Background	2	2	3	3
Fragments	ND	ND	ND	13/M3

Organism	18034658 - 21			18034658 - 22			18034658 - 23			18034658 - 24		
	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total
Alternaria												
Ascospores	2	27	14.4%	2	27	8.1%	2	27	11.2%	1	13	8.9%
Aspergillus Penicillium												
Basidiospores	9	120	64.2%	16	213	64.0%	5	67	27.8%	3	40	27.4%
Bipolaris Drechslera												
Cercospora												
Chaetomium												
Cladosporium	3	40	21.4%	7	93	27.9%	8	107	44.4%	7	93	63.7%
Curvularia												
Epicoccum												
Memnoniella												
Myxomycetes							2	27	11.2%			
Nigrospora												
Pithomyces							1	13	5.4%			
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	14	187		25	333		18	241		11	146	

Water Damage Indicator Common Allergen Slightly Higher than Outside Air Significantly Higher than Outside Air Ratio Abnormality

Signature: P. Ramesh

Date: 10/02/2018

Reviewed by: Stephen A. Hayes

Date: 10/02/2018



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.
1511 Route 22, Suite #C24
Brewster, NY 10509
Phone: (845) 278-7710 Fax: (845) 278-7750

Spore Trap Analysis
SOP #HMC101

HMC #18034658

Job Number: 18392.01-PM	Job Name: PS 15	Date Collected: 10/01/2018
Collected by: John Soter	175 Westchester Avenue	Date Received: 10/02/2018
Email: adelaidelabresults@adelaidellc.com	Yonkers, New York 10707	Date Reported: 10/02/2018

HMC ID Number	18034658 - 25	18034658 - 26	18034658 - 27	18034658 - 28
Sample ID#	77	78	79	80
Sample Name	2nd Fl - Psych	2nd Fl - Guidance Office	2nd Fl - SW Office	2nd Fl - Admin Suite
Sample Volume	75 liters	75 liters	75 liters	75 liters
Reporting Limit	13 spores/M3	13 spores/M3	13 spores/M3	13 spores/M3
Background	2	2	3	2
Fragments	ND	ND	ND	13/M3

Organism	18034658 - 25			18034658 - 26			18034658 - 27			18034658 - 28		
	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total
Alternaria												
Ascospores	3	40	11.1%	1	13	5.8%	1	13	6.1%	64	853	28.1%
Aspergillus Penicillium				2	27	11.9%						
Basidiospores	15	200	55.6%	4	53	23.5%	3	40	18.8%	160	2133	70.2%
Bipolaris Drechslera							1	13	6.1%			
Cercospora												
Chaetomium												
Cladosporium	9	120	33.3%	10	133	58.8%	11	147	69.0%	3	40	1.3%
Curvularia												
Epicoccum												
Memnoniella												
Myxomycetes										1	13	< 1%
Nigrospora												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	27	360		17	226		16	213		228	3039	

Water Damage Indicator Common Allergen Slightly Higher than Outside Air Significantly Higher than Outside Air Ratio Abnormality

Signature: P. Ramesh

Date: 10/02/2018

Reviewed by: Stephen A. Hayes

Date: 10/02/2018



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.
1511 Route 22, Suite #C24
Brewster, NY 10509
Phone: (845) 278-7710 Fax: (845) 278-7750

Spore Trap Analysis
SOP #HMC101

HMC #18034658

Job Number: 18392.01-PM	Job Name: PS 15	Date Collected: 10/01/2018
Collected by: John Soter	175 Westchester Avenue	Date Received: 10/02/2018
Email: adelaidelabresults@adelaidellc.com	Yonkers, New York 10707	Date Reported: 10/02/2018

HMC ID Number	18034658 - 29	18034658 - 30	18034658 - 31	18034658 - 32
Sample ID#	81	82	83	84
Sample Name	2nd Fl - Assist Principal	2nd Fl - Principal	2nd Fl - Nurses Office	2nd Fl - Exam Room
Sample Volume	75 liters	75 liters	75 liters	75 liters
Reporting Limit	13 spores/M3	13 spores/M3	13 spores/M3	13 spores/M3
Background	2	2	2	2
Fragments	ND	ND	ND	13/M3

Organism	18034658 - 29			18034658 - 30			18034658 - 31			18034658 - 32		
	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total
Alternaria	1	13	< 1%									
Ascospores	48	640	10.9%	30	400	7.7%	16	213	10.5%	10	133	8.0%
Aspergillus Penicillium	3	40	< 1%									
Basidiospores	224	2987	51.0%	224	2987	57.4%	128	1707	84.3%	112	1493	90.3%
Bipolaris Drechslera												
Cercospora				2	27	< 1%	1	13	< 1%			
Chaetomium												
Cladosporium	160	2133	36.4%	128	1707	32.8%	3	40	2.0%	2	27	1.6%
Curvularia				1	13	< 1%						
Epicoccum												
Memnoniella												
Myxomycetes	3	40	< 1%	5	67	1.3%	4	53	2.6%			
Nigrospora												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	439	5853		390	5201		152	2026		124	1653	

Water Damage Indicator Common Allergen Slightly Higher than Outside Air Significantly Higher than Outside Air Ratio Abnormality

Signature: P. Ramesh

Date: 10/02/2018

Reviewed by: Stephen A. Hayes

Date: 10/02/2018



HAYES

MICROBIAL CONSULTING
 3005 East Boundary Terrace, #F
 Midlothian, VA 23112, USA
 804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.
 1511 Route 22, Suite #C24
 Brewster, NY 10509
 Phone: (845) 278-7710 Fax: (845) 278-7750

Spore Trap Analysis
 SOP #HMC101

HMC #18034658

Job Number: 18392.01-PM	Job Name: PS 15	Date Collected: 10/01/2018
Collected by: John Soter	175 Westchester Avenue	Date Received: 10/02/2018
Email: adelaidelabresults@adelaidellc.com	Yonkers, New York 10707	Date Reported: 10/02/2018

HMC ID Number	18034658 - 33	18034658 - 34	18034658 - 35	18034658 - 36
Sample ID#	85	86	87	88
Sample Name	2nd Fl - Nurses Room 204B	2nd Fl - Nurses Bathroom	2nd Fl - Parent Center	2nd Fl - Auditorium Lobby
Sample Volume	75 liters	75 liters	75 liters	75 liters
Reporting Limit	13 spores/M3	13 spores/M3	13 spores/M3	13 spores/M3
Background	2	2	2	2
Fragments	ND	ND	ND	13/M3

Organism	18034658 - 33			18034658 - 34			18034658 - 35			18034658 - 36		
	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total
Alternaria												
Ascospores	8	107	5.2%	14	187	9.8%	3	40	9.4%	3	40	14.3%
Aspergillus Penicillium												
Basidiospores	144	1920	93.5%	128	1707	89.5%	24	320	74.9%	16	213	76.1%
Bipolaris Drechslera												
Cercospora				1	13	< 1%						
Chaetomium												
Cladosporium	1	13	< 1%				5	67	15.7%	2	27	9.6%
Curvularia												
Epicoccum												
Memnoniella												
Myxomycetes	1	13	< 1%									
Nigrospora												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	154	2053		143	1907		32	427		21	280	

Water Damage Indicator Common Allergen Slightly Higher than Outside Air Significantly Higher than Outside Air Ratio Abnormality

Signature: P. Ramesh

Date: 10/02/2018

Reviewed by: Stephen A. Hayes

Date: 10/02/2018



HAYES

MICROBIAL CONSULTING
 3005 East Boundary Terrace, #F
 Midlothian, VA 23112, USA
 804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.
 1511 Route 22, Suite #C24
 Brewster, NY 10509
 Phone: (845) 278-7710 Fax: (845) 278-7750

Spore Trap Analysis
 SOP #HMC101

HMC #18034658

Job Number: 18392.01-PM	Job Name: PS 15	Date Collected: 10/01/2018
Collected by: John Soter	175 Westchester Avenue	Date Received: 10/02/2018
Email: adelaidelabresults@adelaidellc.com	Yonkers, New York 10707	Date Reported: 10/02/2018

HMC ID Number	18034658 - 37	18034658 - 38	18034658 - 39	18034658 - 40
Sample ID#	89	90	91	92
Sample Name	2nd Fl - Room 203A Coats	2nd Fl - Auditorium Back	2nd Fl - Auditorium Front	2nd Fl - Stage
Sample Volume	75 liters	75 liters	75 liters	75 liters
Reporting Limit	13 spores/M3	13 spores/M3	13 spores/M3	13 spores/M3
Background	2	2	2	2
Fragments	ND	ND	ND	ND

Organism	18034658 - 37			18034658 - 38			18034658 - 39			18034658 - 40		
	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total
Alternaria												
Ascospores	5	67	23.9%	1	13	14.0%	6	80	27.3%	1	13	6.1%
Aspergillus Penicillium	1	13	4.6%									
Basidiospores	12	160	57.1%	2	27	29.0%	10	133	45.4%	12	160	75.1%
Bipolaris Drechslera												
Cercospora												
Chaetomium												
Cladosporium	3	40	14.3%	4	53	57.0%	5	67	22.9%	3	40	18.8%
Curvularia												
Epicoccum												
Memnoniella												
Myxomycetes							1	13	4.4%			
Nigrospora												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	21	280		7	93		22	293		16	213	

Water Damage Indicator Common Allergen Slightly Higher than Outside Air Significantly Higher than Outside Air Ratio Abnormality

Signature: P. Ramesh

Date: 10/02/2018

Reviewed by: Stephen A. Hayes

Date: 10/02/2018



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.
1511 Route 22, Suite #C24
Brewster, NY 10509
Phone: (845) 278-7710 Fax: (845) 278-7750

Spore Trap Analysis
SOP #HMC101

HMC #18034658

Job Number: 18392.01-PM	Job Name: PS 15	Date Collected: 10/01/2018
Collected by: John Soter	175 Westchester Avenue	Date Received: 10/02/2018
Email: adelaidelabresults@adelaidellc.com	Yonkers, New York 10707	Date Reported: 10/02/2018

HMC ID Number	18034658 - 41	18034658 - 42	18034658 - 43	18034658 - 44
Sample ID#	93	94	95	96
Sample Name	2nd Fl - Hallway North	2nd Fl - Hallway Center	2nd Fl - Hallway South	Exterior North
Sample Volume	75 liters	75 liters	75 liters	75 liters
Reporting Limit	13 spores/M3	13 spores/M3	13 spores/M3	13 spores/M3
Background	2	2	2	2
Fragments	ND	ND	ND	13/M3

Organism	18034658 - 41			18034658 - 42			18034658 - 43			18034658 - 44		
	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total
Alternaria										1	13	< 1%
Ascospores	8	107	20.1%	3	40	15.0%	5	67	13.6%	160	2133	18.0%
Aspergillus Penicillium										4	53	< 1%
Basidiospores	30	400	75.0%	16	213	80.1%	30	400	81.0%	480	6400	54.1%
Bipolaris Drechslera										1	13	< 1%
Cercospora										3	40	< 1%
Chaetomium												
Cladosporium	1	13	2.4%				2	27	5.5%	224	2987	25.3%
Curvularia										1	13	< 1%
Epicoccum				1	13	4.9%						
Memnoniella												
Myxomycetes	1	13	2.4%							12	160	1.4%
Nigrospora												
Pithomyces										1	13	< 1%
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	40	533		20	266		37	494		887	11825	

Water Damage Indicator Common Allergen Slightly Higher than Outside Air Significantly Higher than Outside Air Ratio Abnormality

Signature: P. Ramesh

Date: 10/02/2018

Reviewed by: Stephen A. Hayes

Date: 10/02/2018



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.
1511 Route 22, Suite #C24
Brewster, NY 10509
Phone: (845) 278-7710 Fax: (845) 278-7750

Spore Trap Analysis
SOP #HMC101

HMC #18034658

Job Number: 18392.01-PM	Job Name: PS 15	Date Collected: 10/01/2018
Collected by: John Soter	175 Westchester Avenue	Date Received: 10/02/2018
Email: adelaidelabresults@adelaidellc.com	Yonkers, New York 10707	Date Reported: 10/02/2018

HMC ID Number	18034658 - 45	18034658 - 46	18034658 - 47	18034658 - 48
Sample ID#	97	98	99	100
Sample Name	Exterior - East	Exterior South	Exterior West	Field Blank
Sample Volume	75 liters	75 liters	75 liters	0 liters
Reporting Limit	13 spores/M3	13 spores/M3	13 spores/M3	0 spores/M3
Background	2	2	2	ND
Fragments	13/M3	40/M3	53/M3	ND

Organism	18034658 - 45			18034658 - 46			18034658 - 47			18034658 - 48		
	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total
Alternaria				1	13	< 1%						
Ascospores	192	2560	18.4%	320	4267	28.9%	144	1920	15.1%			
Aspergillus Penicillium	7	93	< 1%	4	53	< 1%	2	27	< 1%			
Basidiospores	576	7680	55.3%	640	8533	57.9%	704	9387	73.9%			
Bipolaris Drechslera												
Cercospora	1	13	< 1%				1	13	< 1%			
Chaetomium												
Cladosporium	256	3413	24.6%	128	1707	11.6%	96	1280	10.1%			
Curvularia	1	13	< 1%									
Epicoccum												
Memnoniella												
Myxomycetes	7	93	< 1%	10	133	< 1%	5	67	< 1%			
Nigrospora	1	13	< 1%	1	13	< 1%						
Pithomyces	1	13	< 1%	1	13	< 1%	1	13	< 1%			
Stachybotrys												
Stemphylium												
Torula				1	13	< 1%						
Ulocladium												
Total	1042	13891		1106	14745		953	12707		ND	ND	

Water Damage Indicator	Common Allergen	Slightly Higher than Outside Air	Significantly Higher than Outside Air	Ratio Abnormality
------------------------	-----------------	----------------------------------	---------------------------------------	-------------------

Signature: P. Ramesh

Date: 10/02/2018

Reviewed by: Stephen A. Hayes

Date: 10/02/2018



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.
1511 Route 22, Suite #C24
Brewster, NY 10509
Phone: (845) 278-7710 Fax: (845) 278-7750

Spore Trap Information

HMC #18034658

Reporting Limit The Reporting Limit is the lowest number of spores that can be detected based on the total volume of the sample collected and the percentage of the slide that is counted. At Hayes Microbial, 100% of the slide is read so the LOD is based solely on the total volume. Raw spore counts that exceed 500 spores will be estimated.

Blanks Results have not been corrected for field or laboratory blanks.

Background The Background is the amount of debris that is present in the sample. This debris consists of skin cells, dirt, dust, pollen, drywall dust and other organic and non-organic matter. As the background density increases, the likelihood of spores, especially small spores such as those of Aspergillus and Penicillium may be obscured. The background is rated on a scale of 1 to 4 and each level is determined as follows:
ND : No background detected. (Pump or cassette malfunction.) Recollect sample.
1 : <5% of field occluded. No spores will be uncountable.
2 : 5-25% of field occluded.
3 : 25-75% of field occluded.
4 : 75-90% of field occluded.
5 : >90% of field occluded. Suggest recollection of sample.

Fragments Fragments are small pieces of fungal mycelium or spores. They are not identifiable as to type and when present in very large numbers, may indicate the presence of mold amplification.

Indoor/Outdoor Comparisons There are no national standards for the numbers of fungal spores that may be present in the indoor environment. As a general rule and guideline that is widely accepted in the indoor air quality field, the numbers and types of spores that are present in the indoor environment should not exceed those that are present outdoors at any given time. There will always be some mold spores present in "normal" indoor environments. The purpose of sampling and counting spores is to help determine whether an abnormal condition exists within the indoor environment and if it does, to help pinpoint the area of contamination. Spore counts should not be used as the sole determining factor of mold contamination. There are many factors that can cause anomalies in the comparison of indoor and outdoor samples due to the dynamic nature of both of those environments.

Water Damage Indicators	These molds are commonly seen in conditions of prolonged water intrusion and usually indicate a problem.
Common Allergens	Although all molds are potential allergens, these are the most common allergens that may be found indoors.
Slightly Higher than Outside Air	The spore count is slightly higher than the outside count and may or may not indicate a source of contamination.
Significantly Higher than Outside Air	The spore count is significantly higher than the outdoor count and probably indicates a source of contamination.
Ratio Abnormality	The types of spores found indoors should be similar to the ones that were identified in the outdoor sample. Significant increases (more than 25%) in the ratio of a particular spore type may indicate the presence of abnormal levels of mold, even if the total number of spores of that type is lower in the indoor environment than it was outdoors.

Color Note Fungi that are present in indoor samples at levels lower than 200 per cubic meter are not color coded on the report, unless they are one of the water damage indicators.



Alternaria

Habitat: Commonly found outdoors in soil and decaying plants. Indoors, it is commonly found on window sills and other horizontal surfaces.

Health Effects: A common allergen and has been associated with hypersensitivity pneumonitis. Alternaria is capable of producing toxic metabolites which may be associated with disease in humans or animals. Occasionally an agent of onychomycosis, ulcerated cutaneous infection and chronic sinusitis, principally in the immunocompromised patient.

Ascospores

Habitat: A large group consisting of more than 3000 species of fungi. Common plant pathogens and outdoor numbers become very high following rain. Most of the genera are indistinguishable by spore trap analysis and are combined on the report.

Health Effects: Health affects are poorly studied, but many are likely to be allergenic.

Aspergillus|Penicillium

Habitat: The most common fungi isolated from the environment. Very common in soil and on decaying plant material. Are able to grow well indoors on a wide variety of substrates.

Health Effects: This group contains common allergens and many can cause hypersensitivity pneumonitis. They may cause extrinsic asthma, and many are opportunistic pathogens. Many species produce mycotoxins which may be associated with disease in humans and other animals. Toxin production is dependent on the species, the food source, competition with other organisms, and other environmental conditions.

Basidiospores

Habitat: A common group of Fungi that includes the mushrooms and bracket fungi. They are saprophytes and plant pathogens. In wet conditions they can cause structural damage to buildings.

Health Effects: Common allergens and are also associated with hypersensitivity pneumonitis.

Bipolaris|Drechslera

Habitat: They are found in soil and as plant pathogens. Can grow indoors on a variety of substrates.

Health Effects: They may be allergenic and are very commonly involved in allergic fungal sinusitis. They are opportunistic pathogens but occasionally infect healthy individuals, causing keratitis, sinusitis and osteomyelitis.

Cercospora

Habitat: Found on wood and decaying plant matter.

Health Effects: Health effects are poorly studied.

Cladosporium

Habitat: One of the most common genera worldwide. Found in soil and plant debris and on the leaf surfaces of living plants. The outdoor numbers are lower in the winter and often relatively high in the summer, especially in high humidity. The outdoor numbers often spike in the late afternoon and evening. Indoors, it can be found growing on textiles, wood, sheetrock, moist window sills and in HVAC supply ducts.

Health Effects: A common allergen, producing more than 10 allergenic antigens and a common cause of hypersensitivity pneumonitis.



Curvularia

Habitat: They exist in soil and plant debris, and are plant pathogens.

Health Effects: They are allergenic and a common cause of allergic fungal sinusitis. An occasional cause of human infection, including keratitis, sinusitis, onychomycosis, mycetoma, pneumonia, endocarditis and disseminated infection, primarily in the immunocompromised.

Epicoccum

Habitat: It is found in soil and plant litter and is a plant pathogen. It can grow indoors on a variety of substrates, including paper and textiles and is commonly found on wet drywall.

Health Effects: It is a common allergen. No cases of infection have been reported in humans.

Myxomycetes

Habitat: Found on decaying plant material and as a plant pathogen.

Health Effects: Some allergenic properties reported, but generally pose no health concerns to humans.

Nigrospora

Habitat: Found on wood, soil and decaying plant matter.

Health Effects: Health effects are poorly studied.

Pithomyces

Habitat: Common fungus isolated from soil, decaying plant material. Rarely found indoors.

Health Effects: Allergenic properties are poorly studied. No cases of infection in humans.

Stachybotrys

Habitat: Commonly found in soil and on decaying plant material. It is cellulolytic, and can be found indoors on wet materials containing cellulose, such as wallboard, ceiling tile, and other paper-based materials. It is found outdoors on decaying plant material although it is rarely detected on outdoor air samples.

Health Effects: Allergenic properties are poorly studied and no cases of infection have been reported in humans. They are capable of producing potent tricothecene mycotoxins. The toxins produced by this fungus can suppress the immune system affecting the lymphoid tissue and the bone marrow. The mycotoxin is also reported to be a liver and kidney carcinogen.

Torula

Habitat: Found in soil and on wood and grasses. Occasionally found growing indoors on cellulose containing materials.

Health Effects: A known allergen. No known cases of human infection.



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.

1511 Route 22 Suite #C24
Brewster, NY 10509
(845) 278-7710
Fax: (845) 278-7750

Chain of Custody

Form v.2101208.1

HMC #
034658

61

Job Number: 18392.01-PM	Job Name: PS 15	Collector: John Soter	Email: adelaidelabresults@adelaidellc.com
Date Collected: 9/29/18	175 Westchester Avenue	Notes:	
Mobile: 10/1/18	Yonkers, New York 10707		

Sample #	Sample Name	Analysis Type	Volume	TAT	Notes
53	2nd Floor - Room 210	S	75 L	RUSH	
54	- Storage 218	S	75 L	RUSH	
55	- Storage 216	S	75 L	RUSH	
56	- Room 208	S	75 L	RUSH	
57	- Room 206	S	75 L	RUSH	
58	- Storage 211	S	75 L	RUSH	
59	- Comm. Rm 214	S	75 L	RUSH	
60	- Elev. Room	S	75 L	RUSH	
61	- Staff Only	S	75 L	RUSH	
62	- Room 204	S	75 L	RUSH	
63	- Staff Only 209	S	75 L	RUSH	
64	- Room 201	S	75 L	RUSH	

Analysis Type	Description	TAT	Acceptable Sample Types
Spore Trap S	Identification & Enumeration of Fungal Spores	24 Hour	Spore Trap cassettes, Impact slides
S+	I & E of Fungal Spores + total dander, fiber and pollen count	24 Hour	Spore Trap cassettes, Impact slides
Direct ID D	ID and Semi-quantative enumeration of spores and mycelium	24 Hour	Tape, Bio-tape, swab, bulk, agar plate for ID only
D+	ID and Enumeration with spores count	24 Hour	Tape, Bio-tape, swab, bulk, agar plate for ID only
Culture C1	Identification & Enumeration of Mold only	7 Day	Anderson Air Plate, Swab, Bulk
C2	Identification & Enumeration of Bacteria only	4 Day	Anderson Air Plate, Swab, Bulk
C3	Identification & Enumeration of Mold and Bacteria	7 Day	Anderson Air Plate, Swab, Bulk
C5	Coliform Screen for Sewage Bacteria	2 Day	Anderson Air Plate, Swab, Bulk
Dust Mite A1	Semi-quantative analysis of dust mite allergen	24 Hour	Bulk Dust
Particle P	Total Particulate Analysis	24 Hour	Spore Trap cassettes, Impact slides, Bio-Tape

Relinquished by:	Date: 10/1/18	Rcvd By:	Date: 10/1/18	Time:
------------------	---------------	----------	---------------	-------



HAYES

MICROBIAL CONSULTING
 3005 East Boundary Terrace, #F
 Midlothian, VA 23112, USA
 804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.

1511 Route 22 Suite #C24
 Brewster, NY 10509
 (845) 278-7710
 Fax: (845) 278-7750

Chain of Custody

Form v.2101208.1

HMC #

034658

Job Number: 18392.01-PM Job Name: PS 15 Collector: John Soter Email: adelaidelabresults@adelaidell.com

Date Collected: 9/29/18 175 Westchester Avenue Notes:

Mobile: 10/1/18 Yonkers, New York 10707

Sample #	Sample Name	Analysis Type	Volume	TAT	Notes
65	2nd Floor - Staff Bathroom 230	S	75 L	RUSH	
66	↓ 229	S	75 L	RUSH	
67	↓ - Room 203	S	75 L	RUSH	
68	↓ - Room 205	S	75 L	RUSH	
69	↓ - Girls Toilet	S	75 L	RUSH	
70	↓ - Boys Toilet	S	75 L	RUSH	
71	↓ - Room 207	S	75 L	RUSH	
72	↓ - Storage 223	S	75 L	RUSH	
73	↓ - Storage 222	S	75 L	RUSH	
74	↓ - Room 209	S	75 L	RUSH	
75	↓ - Guidance Suite	S	75 L	RUSH	
76	↓ - Guidance Conference	S	75 L	RUSH	

Analysis Type	Description	TAT	Acceptable Sample Types
Spore Trap S	Identification & Enumeration of Fungal Spores	24 Hour	Spore Trap cassettes, Impact slides
S+	I & E of Fungal Spores + total dander, fiber and pollen count	24 Hour	Spore Trap cassettes, Impact slides
Direct ID D	ID and Semi-quantative enumeration of spores and mycelium	24 Hour	Tape, Bio-tape, swab, bulk, agar plate for ID only
D+	ID and Enumeration with spores count	24 Hour	Tape, Bio-tape, swab, bulk, agar plate for ID only
Culture C1	Identification & Enumeration of Mold only	7 Day	Anderson Air Plate, Swab, Bulk
C2	Identification & Enumeration of Bacteria only	4 Day	Anderson Air Plate, Swab, Bulk
C3	Identification & Enumeration of Mold and Bacteria	7 Day	Anderson Air Plate, Swab, Bulk
C5	Coliform Screen for Sewage Bacteria	2 Day	Anderson Air Plate, Swab, Bulk
Dust Mite A1	Semi-quantative analysis of dust mite allergen	24 Hour	Bulk Dust
Particle P	Total Particulate Analysis	24 Hour	Spore Trap cassettes, Impact slides, Bio-Tape

Relinquished by: [Signature] Date: 10/1/18 Rcvd By: [Signature] Date: 10/1/18 Time:



HAYES

MICROBIAL CONSULTING
 3005 East Boundary Terrace, #F
 Midlothian, VA 23112, USA
 804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.

1511 Route 22 Suite #C24
 Brewster, NY 10509
 (845) 278-7710
 Fax: (845) 278-7750

Chain of Custody

Form v.2101208.1

HMC #

034658

Ag³

Job Number: 18392.01-PM	Job Name: PS 15	Collector: John Soter	Email: adelaidelabresults@adelaidellc.com
Date Collected: 9/29/18	175 Westchester Avenue	Notes:	
Mobile: 10/1/18	Yonkers, New York 10707		

Sample #	Sample Name	Analysis Type	Volume	TAT	Notes
77	2 nd Floor - Psych	S	75 L	RUSH	
78	- Guidance Office	S	75 L	RUSH	
79	- S.W. Office	S	75 L	RUSH	
80	- Admin Suite	S	75 L	RUSH	
81	- Assist Principals	S	75 L	RUSH	
82	- Principals	S	75 L	RUSH	
83	- Nurses Office	S	75 L	RUSH	
84	- Exam Room	S	75 L	RUSH	
85	- Nurses Room 204B	S	75 L	RUSH	
86	- Nurses Bathroom	S	75 L	RUSH	
87	- Parent Center	S	75 L	RUSH	
88	- Auditorium Lobby	S	75 L	RUSH	

Analysis Type	Description	TAT	Acceptable Sample Types
Spore Trap S	Identification & Enumeration of Fungal Spores	24 Hour	Spore Trap cassettes, Impact slides
S+	I & E of Fungal Spores + total dander, fiber and pollen count	24 Hour	Spore Trap cassettes, Impact slides
Direct ID D	ID and Semi-quantative enumeration of spores and mycelium	24 Hour	Tape, Bio-tape, swab, bulk, agar plate for ID only
D+	ID and Enumeration with spores count	24 Hour	Tape, Bio-tape, swab, bulk, agar plate for ID only
Culture C1	Identification & Enumeration of Mold only	7 Day	Anderson Air Plate, Swab, Bulk
C2	Identification & Enumeration of Bacteria only	4 Day	Anderson Air Plate, Swab, Bulk
C3	Identification & Enumeration of Mold and Bacteria	7 Day	Anderson Air Plate, Swab, Bulk
C5	Coliform Screen for Sewage Bacteria	2 Day	Anderson Air Plate, Swab, Bulk
Dust Mite A1	Semi-quantative analysis of dust mite allergen	24 Hour	Bulk Dust
Particle P	Total Particulate Analysis	24 Hour	Spore Trap cassettes, Impact slides, Bio-Tape

Relinquished by: <i>[Signature]</i>	Date: 10/1/18	Rcvd By: <i>[Signature]</i>	Date: 10/1/18	Time:
-------------------------------------	---------------	-----------------------------	---------------	-------



HAYES

MICROBIAL CONSULTING
 3005 East Boundary Terrace, #F
 Midlothian, VA 23112, USA
 804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.

1511 Route 22 Suite #C24
 Brewster, NY 10509
 (845) 278-7710
 Fax: (845) 278-7750

Chain of Custody

Form v.2101208.1

HMC #

034658

Job Number: 18392.01-PM Job Name: PS 15 Collector: John Soter Email: adelaidelabresults@adelaidellc.com

Date Collected: 9/29/18 175 Westchester Avenue Notes:

Mobile: 10/1/18 Yonkers, New York 10707

Sample #	Sample Name	Analysis Type	Volume	TAT	Notes
89	2nd Floor - Room 203A - Coats	S	75 L	RUSH	
90	↓ - Auditorium - Back	S	75 L	RUSH	
91	↓ - Front	S	75 L	RUSH	
92	↓ - Stage	S	75 L	RUSH	
93	↓ - Hallway - North	S	75 L	RUSH	
94	↓ - Center	S	75 L	RUSH	
95	↓ - South	S	75 L	RUSH	
96	Exterior - North	S	75 L	RUSH	
97	↓ - East	S	75 L	RUSH	
98	↓ - South	S	75 L	RUSH	
99	↓ - West	S	75 L	RUSH	
100	Field Blank	S	75 L	RUSH	

Analysis Type	Description	TAT	Acceptable Sample Types
Spore Trap S	Identification & Enumeration of Fungal Spores	24 Hour	Spore Trap cassettes, Impact slides
S+	I & E of Fungal Spores + total dander, fiber and pollen count	24 Hour	Spore Trap cassettes, Impact slides
Direct ID D	ID and Semi-quantative enumeration of spores and mycelium	24 Hour	Tape, Bio-tape, swab, bulk, agar plate for ID only
D+	ID and Enumeration with spores count	24 Hour	Tape, Bio-tape, swab, bulk, agar plate for ID only
Culture C1	Identification & Enumeration of Mold only	7 Day	Anderson Air Plate, Swab, Bulk
C2	Identification & Enumeration of Bacteria only	4 Day	Anderson Air Plate, Swab, Bulk
C3	Identification & Enumeration of Mold and Bacteria	7 Day	Anderson Air Plate, Swab, Bulk
C5	Coliform Screen for Sewage Bacteria	2 Day	Anderson Air Plate, Swab, Bulk
Dust Mite A1	Semi-quantative analysis of dust mite allergen	24 Hour	Bulk Dust
Particle P	Total Particulate Analysis	24 Hour	Spore Trap cassettes, Impact slides, Bio-Tape

Relinquished by: [Signature] Date: 10/1/18 Rcvd By: [Signature] Date: 10/1/18 Time:



contact@hayesmicrobial.com
http://hayesmicrobial.com/

Analysis Report prepared for

Adelaide Environmental Health Associates, Inc.

1511 Route 22 Suite #C24
Brewster, NY. 10509
Phone: (845) 278-7710 Fax: (845) 278-7750

Job Number: 18392.01-PM
Job Name: PS 15
175 Westchester Avenue
Yonkers, New York 10707
Date Sampled: 10-01-2018
Date Analyzed: 10-02-2018
Report Date: 10-02-2018

EPA Laboratory ID# VA01419



AIHA EMPAT Lab ID# 188863



Mold License: LAB1021



License: #PH-0198



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

HMC #18034657

Adelaide Environmental Health Associates, Inc.
1511 Route 22
Suite #C24
Brewster, NY 10509

October 2, 2018

Client Job Number: 18392.01-PM
Client Job Name: PS 15
175 Westchester Avenue
Yonkers, New York 10707

Dear Adelaide Environmental Health Associates, Inc.,

We would like to thank you for trusting Hayes Microbial for your analytical needs. On October 2, 2018 we received 35 samples by FedEx for the job referenced above. 35 samples were received in good condition.

The results in this analysis pertain only to this job, collected on the stated date and should not be used in the interpretation of any other job. This report may not be duplicated, except in full, without the written consent of Hayes Microbial Consulting, LLC.

This laboratory bears no responsibility for sample collection activities, analytical method limitations, or your use of the test results. Interpretation and use of test results are your responsibility. Any reference to health effects or interpretation of mold levels is strictly the opinion of Hayes Microbial Consulting. In no event, shall Hayes Microbial Consulting or any of its employees be liable for lost profits or any special, incidental or consequential damages arising out of your use of the test results.

Steve Hayes, BSMT(ASCP)
Laboratory Director
Hayes Microbial Consulting, LLC



HAYES

MICROBIAL CONSULTING
 3005 East Boundary Terrace, #F
 Midlothian, VA 23112, USA
 804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.
 1511 Route 22, Suite #C24
 Brewster, NY 10509
 Phone: (845) 278-7710 Fax: (845) 278-7750

Spore Trap Analysis
 SOP #HMC101

HMC #18034657

Job Number: 18392.01-PM	Job Name: PS 15	Date Collected: 10/01/2018
Collected by: John Soter	175 Westchester Avenue	Date Received: 10/02/2018
Email: adelaidelabresults@adelaidellc.com	Yonkers, New York 10707	Date Reported: 10/02/2018

HMC ID Number	18034657 - 1	18034657 - 2	18034657 - 3	18034657 - 4
Sample ID#	101	102	103	104
Sample Name	3rd Fl - Room 301A	3rd Fl - Rom 301	3rd Fl - Room 303	3rd Fl - Staff Restroom
Sample Volume	75 liters	75 liters	75 liters	75 liters
Reporting Limit	13 spores/M3	13 spores/M3	13 spores/M3	13 spores/M3
Background	2	2	2	2
Fragments	ND	ND	13/M3	ND

Organism	18034657 - 1			18034657 - 2			18034657 - 3			18034657 - 4		
	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total
Alternaria												
Ascospores	15	200	59.9%	13	173	72.4%	9	120	56.1%	4	53	57.0%
Aspergillus Penicillium	2	27	8.1%	1	13	5.4%	2	27	12.6%	3	40	43.0%
Basidiospores	6	80	24.0%	4	53	22.2%						
Bipolaris Drechslera												
Chaetomium												
Cladosporium	2	27	8.1%				5	67	31.3%			
Curvularia												
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Unspecified Spore												
Total	25	334		18	239		16	214		7	93	

Water Damage Indicator Common Allergen Slightly Higher than Outside Air Significantly Higher than Outside Air Ratio Abnormality

Signature: Stephen A. Hayes Date: 10/02/2018 Reviewed by: P. Ramey Date: 10/02/2018



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.
1511 Route 22, Suite #C24
Brewster, NY 10509
Phone: (845) 278-7710 Fax: (845) 278-7750

Spore Trap Analysis
SOP #HMC101

HMC #18034657

Job Number: 18392.01-PM	Job Name: PS 15	Date Collected: 10/01/2018
Collected by: John Soter	175 Westchester Avenue	Date Received: 10/02/2018
Email: adelaidelabresults@adelaidellc.com	Yonkers, New York 10707	Date Reported: 10/02/2018

HMC ID Number	18034657 - 5	18034657 - 6	18034657 - 7	18034657 - 8
Sample ID#	105	106	107	108
Sample Name	3rd Fl - Staff Restroom	3rd Fl - Custodial Closet	3rd Fl - Room 305	3rd Fl - Girls Bathroom
Sample Volume	75 liters	75 liters	75 liters	75 liters
Reporting Limit	13 spores/M3	13 spores/M3	13 spores/M3	13 spores/M3
Background	2	2	2	2
Fragments	ND	13/M3	27/M3	ND

Organism	18034657 - 5			18034657 - 6			18034657 - 7			18034657 - 8		
	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total
Alternaria												
Ascospores	7	93	69.9%	14	187	45.2%	58	773	47.2%	6	80	60.2%
Aspergillus Penicillium	2	27	20.3%	3	40	9.7%	9	120	7.3%	1	13	9.8%
Basidiospores				6	80	19.3%	31	413	25.2%	3	40	30.1%
Bipolaris Drechslera												
Chaetomium												
Cladosporium	1	13	9.8%	8	107	25.8%	22	293	17.9%			
Curvularia												
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes							3	40	2.4%			
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Unspecified Spore												
Total	10	133		31	414		123	1639		10	133	

Water Damage Indicator Common Allergen Slightly Higher than Outside Air Significantly Higher than Outside Air Ratio Abnormality

Signature: Stephen A. Hayes Date: 10/02/2018 Reviewed by: P. Ramesh Date: 10/02/2018



HAYES

MICROBIAL CONSULTING
 3005 East Boundary Terrace, #F
 Midlothian, VA 23112, USA
 804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.
 1511 Route 22, Suite #C24
 Brewster, NY 10509
 Phone: (845) 278-7710 Fax: (845) 278-7750

Spore Trap Analysis
 SOP #HMC101

HMC #18034657

Job Number: 18392.01-PM	Job Name: PS 15	Date Collected: 10/01/2018
Collected by: John Soter	175 Westchester Avenue	Date Received: 10/02/2018
Email: adelaidelabresults@adelaidellc.com	Yonkers, New York 10707	Date Reported: 10/02/2018

HMC ID Number	18034657 - 9	18034657 - 10	18034657 - 11	18034657 - 12
Sample ID#	109	110	111	112
Sample Name	3rd Fl - Boys Bathroom	3rd Fl - Room 307	3rd Fl - Room 309	3rd Fl - Room 310
Sample Volume	75 liters	75 liters	75 liters	75 liters
Reporting Limit	13 spores/M3	13 spores/M3	13 spores/M3	13 spores/M3
Background	2	2	2	2
Fragments	13/M3	ND	ND	ND

Organism	18034657 - 9			18034657 - 10			18034657 - 11			18034657 - 12		
	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total
Alternaria												
Ascospores	9	120	64.2%	11	147	61.3%	23	307	54.8%	12	160	70.8%
Aspergillus Penicillium	1	13	7.0%	3	40	16.7%	4	53	9.5%	1	13	5.8%
Basidiospores	2	27	14.4%	1	13	5.4%	10	133	23.8%	3	40	17.7%
Bipolaris Drechslera												
Chaetomium												
Cladosporium	2	27	14.4%	2	27	11.3%	2	27	4.8%	1	13	5.8%
Curvularia							1	13	2.3%			
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes				1	13	5.4%	2	27	4.8%			
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Unspecified Spore												
Total	14	187		18	240		42	560		17	226	

Water Damage Indicator Common Allergen Slightly Higher than Outside Air Significantly Higher than Outside Air Ratio Abnormality

Signature: Stephen A. Hayes

Date: 10/02/2018

Reviewed by: P. Ramez

Date: 10/02/2018



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.
1511 Route 22, Suite #C24
Brewster, NY 10509
Phone: (845) 278-7710 Fax: (845) 278-7750

Spore Trap Analysis
SOP #HMC101

HMC #18034657

Job Number: 18392.01-PM	Job Name: PS 15	Date Collected: 10/01/2018
Collected by: John Soter	175 Westchester Avenue	Date Received: 10/02/2018
Email: adelaidelabresults@adelaidellc.com	Yonkers, New York 10707	Date Reported: 10/02/2018

HMC ID Number	18034657 - 13	18034657 - 14	18034657 - 15	18034657 - 16
Sample ID#	113	114	115	116
Sample Name	3rd Fl - Stray Room 313	3rd Fl - Room 308	3rd Fl - Room 306	3rd Fl - Mech Room
Sample Volume	75 liters	75 liters	75 liters	75 liters
Reporting Limit	13 spores/M3	13 spores/M3	13 spores/M3	13 spores/M3
Background	2	2	2	2
Fragments	ND	13/M3	13/M3	13/M3

Organism	18034657 - 13			18034657 - 14			18034657 - 15			18034657 - 16		
	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total
Alternaria												
Ascospores	8	107	72.8%	19	253	54.3%	43	573	63.2%	21	280	55.3%
Aspergillus Penicillium				3	40	8.6%	4	53	5.8%	1	13	2.6%
Basidiospores	2	27	18.4%	4	53	11.4%	16	213	23.5%	12	160	31.6%
Bipolaris Drechslera												
Chaetomium												
Cladosporium							2	27	3.0%	3	40	7.9%
Curvularia				9	120	25.8%						
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes	1	13	8.8%				3	40	4.4%	1	13	2.6%
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Unspecified Spore												
Total	11	147		35	466		68	906		38	506	

Water Damage Indicator Common Allergen Slightly Higher than Outside Air Significantly Higher than Outside Air Ratio Abnormality

Signature: Stephen A. Hayes

Date: 10/02/2018

Reviewed by: P. Ramey

Date: 10/02/2018



HAYES

MICROBIAL CONSULTING
 3005 East Boundary Terrace, #F
 Midlothian, VA 23112, USA
 804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.
 1511 Route 22, Suite #C24
 Brewster, NY 10509
 Phone: (845) 278-7710 Fax: (845) 278-7750

Spore Trap Analysis
 SOP #HMC101

HMC #18034657

Job Number: 18392.01-PM	Job Name: PS 15	Date Collected: 10/01/2018
Collected by: John Soter	175 Westchester Avenue	Date Received: 10/02/2018
Email: adelaidelabresults@adelaidellc.com	Yonkers, New York 10707	Date Reported: 10/02/2018

HMC ID Number	18034657 - 17	18034657 - 18	18034657 - 19	18034657 - 20
Sample ID#	117	118	119	120
Sample Name	3rd Fl - Comm Room	3rd Fl - Elec Room	3rd Fl - Storage 306	3rd Fl - Room 304
Sample Volume	75 liters	75 liters	75 liters	75 liters
Reporting Limit	13 spores/M3	13 spores/M3	13 spores/M3	13 spores/M3
Background	2	2	2	1
Fragments	ND	27/M3	13/M3	ND

Organism	18034657 - 17			18034657 - 18			18034657 - 19			18034657 - 20		
	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total
Alternaria												
Ascospores	27	360	67.5%	58	773	55.2%	18	240	47.4%	16	213	69.6%
Aspergillus Penicillium	3	40	7.5%	5	67	4.8%	2	27	5.3%	1	13	4.2%
Basidiospores	9	120	22.5%	29	387	27.6%	4	53	10.5%	6	80	26.1%
Bipolaris Drechslera												
Chaetomium												
Cladosporium	1	13	2.4%	7	93	6.6%	13	173	34.2%			
Curvularia				1	13	< 1%						
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes				5	67	4.8%	1	13	2.6%			
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Unspecified Spore												
Total	40	533		105	1400		38	506		23	306	

Water Damage Indicator Common Allergen Slightly Higher than Outside Air Significantly Higher than Outside Air Ratio Abnormality

Signature: Stephen A. Hayes

Date: 10/02/2018

Reviewed by: P. Ramesh

Date: 10/02/2018



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.
1511 Route 22, Suite #C24
Brewster, NY 10509
Phone: (845) 278-7710 Fax: (845) 278-7750

Spore Trap Analysis
SOP #HMC101

HMC #18034657

Job Number: 18392.01-PM	Job Name: PS 15	Date Collected: 10/01/2018
Collected by: John Soter	175 Westchester Avenue	Date Received: 10/02/2018
Email: adelaidelabresults@adelaidellc.com	Yonkers, New York 10707	Date Reported: 10/02/2018

HMC ID Number	18034657 - 21	18034657 - 22	18034657 - 23	18034657 - 24
Sample ID#	121	122	123	124
Sample Name	3rd Fl - Room 302	3rd Fl - ICT 4	3rd Fl - ICT 3	3rd Fl - Library
Sample Volume	75 liters	75 liters	75 liters	75 liters
Reporting Limit	13 spores/M3	13 spores/M3	13 spores/M3	13 spores/M3
Background	2	2	1	2
Fragments	ND	13/M3	ND	ND

Organism	18034657 - 21			18034657 - 22			18034657 - 23			18034657 - 24		
	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total
Alternaria												
Ascospores	25	333	51.0%	14	187	46.8%	7	93	69.9%	13	173	59.0%
Aspergillus Penicillium	4	53	8.1%	1	13	3.3%				2	27	9.2%
Basidiospores	12	160	24.5%	3	40	10.0%	2	27	20.3%	4	53	18.1%
Bipolaris Drechslera												
Chaetomium												
Cladosporium	8	107	16.4%	11	147	36.8%	1	13	9.8%	1	13	4.4%
Curvularia												
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes				1	13	3.3%				2	27	9.2%
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Unspecified Spore												
Total	49	653		30	400		10	133		22	293	

Water Damage Indicator Common Allergen Slightly Higher than Outside Air Significantly Higher than Outside Air Ratio Abnormality

Signature: Stephen A. Hayes Date: 10/02/2018 Reviewed by: P. Ramey Date: 10/02/2018



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.
1511 Route 22, Suite #C24
Brewster, NY 10509
Phone: (845) 278-7710 Fax: (845) 278-7750

Spore Trap Analysis
SOP #HMC101

HMC #18034657

Job Number: 18392.01-PM	Job Name: PS 15	Date Collected: 10/01/2018
Collected by: John Soter	175 Westchester Avenue	Date Received: 10/02/2018
Email: adelaidelabresults@adelaidellc.com	Yonkers, New York 10707	Date Reported: 10/02/2018

HMC ID Number	18034657 - 25	18034657 - 26	18034657 - 27	18034657 - 28
Sample ID#	125	126	127	128
Sample Name	3rd Fl - Work Room	3rd Fl - Reading Resource	3rd Fl - Staff Lounge	3rd Fl - Hallway North
Sample Volume	75 liters	75 liters	75 liters	75 liters
Reporting Limit	13 spores/M3	13 spores/M3	13 spores/M3	13 spores/M3
Background	2	2	2	2
Fragments	ND	ND	ND	ND

Organism	18034657 - 25			18034657 - 26			18034657 - 27			18034657 - 28		
	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total
Alternaria												
Ascospores	10	133	83.1%	7	93	63.7%	11	147	73.5%	19	253	67.8%
Aspergillus Penicillium				1	13	8.9%	1	13	6.5%	1	13	3.5%
Basidiospores	2	27	16.9%	1	13	8.9%	2	27	13.5%	6	80	21.4%
Bipolaris Drechslera												
Chaetomium												
Cladosporium				2	27	18.5%	1	13	6.5%	2	27	7.2%
Curvularia												
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Unspecified Spore												
Total	12	160		11	146		15	200		28	373	

Water Damage Indicator Common Allergen Slightly Higher than Outside Air Significantly Higher than Outside Air Ratio Abnormality

Signature: Stephen A. Hayes

Date: 10/02/2018

Reviewed by: P. Ramey

Date: 10/02/2018



HAYES

MICROBIAL CONSULTING
 3005 East Boundary Terrace, #F
 Midlothian, VA 23112, USA
 804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.
 1511 Route 22, Suite #C24
 Brewster, NY 10509
 Phone: (845) 278-7710 Fax: (845) 278-7750

Spore Trap Analysis
 SOP #HMC101

HMC #18034657

Job Number: 18392.01-PM	Job Name: PS 15	Date Collected: 10/01/2018
Collected by: John Soter	175 Westchester Avenue	Date Received: 10/02/2018
Email: adelaidelabresults@adelaidellc.com	Yonkers, New York 10707	Date Reported: 10/02/2018

HMC ID Number	18034657 - 29	18034657 - 30	18034657 - 31	18034657 - 32
Sample ID#	129	130	131	132
Sample Name	3rd Fl - Hallway Center	3rd Fl - Hallway South	Exterior North	Exterior East
Sample Volume	75 liters	75 liters	75 liters	75 liters
Reporting Limit	13 spores/M3	13 spores/M3	13 spores/M3	13 spores/M3
Background	2	1	2	2
Fragments	13/M3	ND	40/M3	27/M3

Organism	18034657 - 29			18034657 - 30			18034657 - 31			18034657 - 32		
	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total
Alternaria	1	13	1.0%				2	27	< 1%	3	40	< 1%
Ascospores	49	653	51.6%	6	80	66.7%	308	4107	49.8%	242	3227	47.7%
Aspergillus Penicillium	6	80	6.3%				29	387	4.7%	18	240	3.6%
Basidiospores	28	373	29.5%	2	27	22.5%	176	2347	28.4%	126	1680	24.9%
Bipolaris Drechslera												
Chaetomium												
Cladosporium	7	93	7.4%				54	720	8.7%	94	1253	18.5%
Curvularia							3	40	< 1%			
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes	4	53	4.2%	1	13	10.8%	46	613	7.4%	21	280	4.1%
Pithomyces							1	13	< 1%	3	40	< 1%
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Unspecified Spore												
Total	95	1265		9	120		619	8254		507	6760	

Water Damage Indicator	Common Allergen	Slightly Higher than Outside Air	Significantly Higher than Outside Air	Ratio Abnormality
------------------------	-----------------	----------------------------------	---------------------------------------	-------------------

Signature: Stephen A. Hayes

Date: 10/02/2018

Reviewed by: P. Ramey

Date: 10/02/2018



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.
1511 Route 22, Suite #C24
Brewster, NY 10509
Phone: (845) 278-7710 Fax: (845) 278-7750

Spore Trap Analysis
SOP #HMC101

HMC #18034657

Job Number: 18392.01-PM	Job Name: PS 15	Date Collected: 10/01/2018
Collected by: John Soter	175 Westchester Avenue	Date Received: 10/02/2018
Email: adelaidelabresults@adelaidellc.com	Yonkers, New York 10707	Date Reported: 10/02/2018

HMC ID Number	18034657 - 33	18034657 - 34	18034657 - 35
Sample ID#	133	134	135
Sample Name	Exterior South	Exterior West	Field Blank
Sample Volume	75 liters	75 liters	0 liters
Reporting Limit	13 spores/M3	13 spores/M3	0 spores/M3
Background	2	2	ND
Fragments	53/M3	40/M3	ND

Organism	18034657 - 33			18034657 - 34			18034657 - 35		
	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total
Alternaria				1	13	< 1%			
Ascospores	274	3653	48.8%	280	3733	52.4%			
Aspergillus Penicillium	30	400	5.3%	34	453	6.4%			
Basidiospores	168	2240	30.0%	132	1760	24.7%			
Bipolaris Drechslera									
Chaetomium									
Cladosporium	45	600	8.0%	60	800	11.2%			
Curvularia	3	40	< 1%	1	13	< 1%			
Epicoccum									
Fusarium									
Memnoniella									
Myxomycetes	31	413	5.5%	24	320	4.5%			
Pithomyces	1	13	< 1%	2	27	< 1%			
Stachybotrys									
Stemphylium									
Torula	9	120	1.6%						
Ulocladium									
Unspecified Spore									
Total	561	7479		534	7119		ND	ND	

Water Damage Indicator	Common Allergen	Slightly Higher than Outside Air	Significantly Higher than Outside Air	Ratio Abnormality
------------------------	-----------------	----------------------------------	---------------------------------------	-------------------

Signature: Stephen A. Hayes Date: 10/02/2018 Reviewed by: P. Ramey Date: 10/02/2018



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.
1511 Route 22, Suite #C24
Brewster, NY 10509
Phone: (845) 278-7710 Fax: (845) 278-7750

Spore Trap Information

HMC #18034657

Reporting Limit	The Reporting Limit is the lowest number of spores that can be detected based on the total volume of the sample collected and the percentage of the slide that is counted. At Hayes Microbial, 100% of the slide is read so the LOD is based solely on the total volume. Raw spore counts that exceed 500 spores will be estimated.
Blanks	Results have not been corrected for field or laboratory blanks.
Background	<p>The Background is the amount of debris that is present in the sample. This debris consists of skin cells, dirt, dust, pollen, drywall dust and other organic and non-organic matter. As the background density increases, the likelihood of spores, especially small spores such as those of Aspergillus and Penicillium may be obscured. The background is rated on a scale of 1 to 4 and each level is determined as follows:</p> <p>ND : No background detected. (Pump or cassette malfunction.) Recollect sample.</p> <p>1 : <5% of field occluded. No spores will be uncountable.</p> <p>2 : 5-25% of field occluded.</p> <p>3 : 25-75% of field occluded.</p> <p>4 : 75-90% of field occluded.</p> <p>5 : >90% of field occluded. Suggest recollection of sample.</p>
Fragments	Fragments are small pieces of fungal mycelium or spores. They are not identifiable as to type and when present in very large numbers, may indicate the presence of mold amplification.
Indoor/Outdoor Comparisons	There are no national standards for the numbers of fungal spores that may be present in the indoor environment. As a general rule and guideline that is widely accepted in the indoor air quality field, the numbers and types of spores that are present in the indoor environment should not exceed those that are present outdoors at any given time. There will always be some mold spores present in "normal" indoor environments. The purpose of sampling and counting spores is to help determine whether an abnormal condition exists within the indoor environment and if it does, to help pinpoint the area of contamination. Spore counts should not be used as the sole determining factor of mold contamination. There are many factors that can cause anomalies in the comparison of indoor and outdoor samples due to the dynamic nature of both of those environments.
Water Damage Indicators	These molds are commonly seen in conditions of prolonged water intrusion and usually indicate a problem.
Common Allergens	Although all molds are potential allergens, these are the most common allergens that may be found indoors.
Slightly Higher than Outside Air	The spore count is slightly higher than the outside count and may or may not indicate a source of contamination.
Significantly Higher than Outside Air	The spore count is significantly higher than the outdoor count and probably indicates a source of contamination.
Ratio Abnormality	The types of spores found indoors should be similar to the ones that were identified in the outdoor sample. Significant increases (more than 25%) in the ratio of a particular spore type may indicate the presence of abnormal levels of mold, even if the total number of spores of that type is lower in the indoor environment than it was outdoors.
Color Note	Fungi that are present in indoor samples at levels lower than 200 per cubic meter are not color coded on the report, unless they are one of the water damage indicators.



Alternaria

Habitat: Commonly found outdoors in soil and decaying plants. Indoors, it is commonly found on window sills and other horizontal surfaces.

Health Effects: A common allergen and has been associated with hypersensitivity pneumonitis. Alternaria is capable of producing toxic metabolites which may be associated with disease in humans or animals. Occasionally an agent of onychomycosis, ulcerated cutaneous infection and chronic sinusitis, principally in the immunocompromised patient.

Ascospores

Habitat: A large group consisting of more than 3000 species of fungi. Common plant pathogens and outdoor numbers become very high following rain. Most of the genera are indistinguishable by spore trap analysis and are combined on the report.

Health Effects: Health affects are poorly studied, but many are likely to be allergenic.

Aspergillus|Penicillium

Habitat: The most common fungi isolated from the environment. Very common in soil and on decaying plant material. Are able to grow well indoors on a wide variety of substrates.

Health Effects: This group contains common allergens and many can cause hypersensitivity pneumonitis. They may cause extrinsic asthma, and many are opportunistic pathogens. Many species produce mycotoxins which may be associated with disease in humans and other animals. Toxin production is dependent on the species, the food source, competition with other organisms, and other environmental conditions.

Basidiospores

Habitat: A common group of Fungi that includes the mushrooms and bracket fungi. They are saprophytes and plant pathogens. In wet conditions they can cause structural damage to buildings.

Health Effects: Common allergens and are also associated with hypersensitivity pneumonitis.

Cladosporium

Habitat: One of the most common genera worldwide. Found in soil and plant debris and on the leaf surfaces of living plants. The outdoor numbers are lower in the winter and often relatively high in the summer, especially in high humidity. The outdoor numbers often spike in the late afternoon and evening. Indoors, it can be found growing on textiles, wood, sheetrock, moist window sills and in HVAC supply ducts.

Health Effects: A common allergen, producing more than 10 allergenic antigens and a common cause of hypersensitivity pneumonitis.

Curvularia

Habitat: They exist in soil and plant debris, and are plant pathogens.

Health Effects: They are allergenic and a common cause of allergic fungal sinusitis. An occasional cause of human infection, including keratitis, sinusitis, onychomycosis, mycetoma, pneumonia, endocarditis and disseminated infection, primarily in the immunocompromised.



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.
1511 Route 22, Suite #C24
Brewster, NY 10509
Phone: (845) 278-7710 Fax: (845) 278-7750

Organism Descriptions

HMC #18034657

Myxomycetes

Habitat: Found on decaying plant material and as a plant pathogen.

Health Effects: Some allergenic properties reported, but generally pose no health concerns to humans.

Pithomyces

Habitat: Common fungus isolated from soil, decaying plant material. Rarely found indoors.

Health Effects: Allergenic properties are poorly studied. No cases of infection in humans.

Torula

Habitat: Found in soil and on wood and grasses. Occasionally found growing indoors on cellulose containing materials.

Health Effects: A known allergen. No known cases of human infection.



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.

1511 Route 22 Suite #C24
Brewster, NY 10509
(845) 278-7710
Fax: (845) 278-7750

Chain of Custody

Form v.2101208.1

HMC #
034657

Job Number: **18392.01-PM** Job Name: **PS 15** Collector: John Soter Email: **adelaidelabresults@adelaidellc.com**

Date Collected: **9/29/18** **175 Westchester Avenue** Notes:

Mobile: **10/1/18** **Yonkers, New York 10707**

Sample #	Sample Name	Analysis Type	Volume	TAT	Notes
101	3 rd Floor - Room 301A	S	75 L	RUSH	
102	- Room 301	S	75 L	RUSH	
103	- Room 303	S	75 L	RUSH	
104	- Staff Restroom	S	75 L	RUSH	
105	-	S	75 L	RUSH	
106	- Custodial Closet	S	75 L	RUSH	
107	- Room 305	S	75 L	RUSH	
108	- Girls Bathroom	S	75 L	RUSH	
109	- Boys Bathroom	S	75 L	RUSH	
110	- Room 307	S	75 L	RUSH	
111	- Room 309	S	75 L	RUSH	
112	- Room 310	S	75 L	RUSH	

Analysis Type	Description	TAT	Acceptable Sample Types
Spore Trap S	Identification & Enumeration of Fungal Spores	24 Hour	Spore Trap cassettes, Impact slides
S+	I & E of Fungal Spores + total dander, fiber and pollen count	24 Hour	Spore Trap cassettes, Impact slides
Direct ID D	ID and Semi-quantative enumeration of spores and mycelium	24 Hour	Tape, Bio-tape, swab, bulk, agar plate for ID only
D+	ID and Enumeration with spores count	24 Hour	Tape, Bio-tape, swab, bulk, agar plate for ID only
Culture C1	Identification & Enumeration of Mold only	7 Day	Anderson Air Plate, Swab, Bulk
C2	Identification & Enumeration of Bacteria only	4 Day	Anderson Air Plate, Swab, Bulk
C3	Identification & Enumeration of Mold and Bacteria	7 Day	Anderson Air Plate, Swab, Bulk
C5	Coliform Screen for Sewage Bacteria	2 Day	Anderson Air Plate, Swab, Bulk
Dust Mite A1	Semi-quantative analysis of dust mite allergen	24 Hour	Bulk Dust
Particle P	Total Particulate Analysis	24 Hour	Spore Trap cassettes, Impact slides, Bio-Tape

Relinquished by: *[Signature]* Date: **10/1/18** Rcvd By: *[Signature]* Date: **10/1/18** Time:



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.

1511 Route 22 Suite #C24
Brewster, NY 10509
(845) 278-7710
Fax: (845) 278-7750

Chain of Custody

Form v.2101208.1

HMC #

034657

Job Number: 18392.01-PM Job Name: PS 15 Collector: John Soter Email: adelaidelabresults@adelaidellc.com

Date Collected: 9/29/18 175 Westchester Avenue Notes:

Mobile: 10/1/18 Yonkers, New York 10707

Sample #	Sample Name	Analysis Type	Volume	TAT	Notes
113	3rd Floor - Storage Room 313	S	75 L	RUSH	
114	- Room 308	S	75 L	RUSH	
115	- Room 306	S	75 L	RUSH	
116	- Mech. Room	S	75 L	RUSH	
117	- Comm. Room	S	75 L	RUSH	
118	- Elec. Room	S	75 L	RUSH	
119	- Storage 306	S	75 L	RUSH	
120	- Room 304	S	75 L	RUSH	
121	- Room 302	S	75 L	RUSH	
122	- ICT 4	S	75 L	RUSH	
123	- ICT 3	S	75 L	RUSH	
124	- Library	S	75 L	RUSH	

Analysis Type	Description	TAT	Acceptable Sample Types
Spore Trap S	Identification & Enumeration of Fungal Spores	24 Hour	Spore Trap cassettes, Impact slides
S+	I & E of Fungal Spores + total dander, fiber and pollen count	24 Hour	Spore Trap cassettes, Impact slides
Direct ID D	ID and Semi-quantative enumeration of spores and mycelium	24 Hour	Tape, Bio-tape, swab, bulk, agar plate for ID only
D+	ID and Enumeration with spores count	24 Hour	Tape, Bio-tape, swab, bulk, agar plate for ID only
Culture	C1 Identification & Enumeration of Mold only	7 Day	Anderson Air Plate, Swab, Bulk
	C2 Identification & Enumeration of Bacteria only	4 Day	Anderson Air Plate, Swab, Bulk
	C3 Identification & Enumeration of Mold and Bacteria	7 Day	Anderson Air Plate, Swab, Bulk
	C5 Coliform Screen for Sewage Bacteria	2 Day	Anderson Air Plate, Swab, Bulk
Dust Mite A1	Semi-quantative analysis of dust mite allergen	24 Hour	Bulk Dust
Particle P	Total Particulate Analysis	24 Hour	Spore Trap cassettes, Impact slides, Bio-Tape

Relinquished by: *[Signature]* Date: 10/1/18 Rcvd By: *[Signature]* Date: 10/1/18 Time:

Pg 3



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Adelaide Environmental Health Associates, Inc.

1511 Route 22 Suite #C24
Brewster, NY 10509
(845) 278-7710
Fax: (845) 278-7750

Chain of Custody

Form v.2101208.1

HMC #

034657

Job Number: 18392.01-PM	Job Name: PS 15	Collector: John Soter	Email: adelaidelabresults@adelaidell.com
Date Collected: 9/29/18	175 Westchester Avenue	Notes:	
Mobile: 10/1/18	Yonkers, New York 10707		

Sample #	Sample Name	Analysis Type	Volume	TAT	Notes
125	3 rd Floor - Work Room	S	75 L	RUSH	
126	- Bedding Reservoir	S	75 L	RUSH	
127	- Staff Lounge	S	75 L	RUSH	
128	- Hallway - North	S	75 L	RUSH	
129	- Center	S	75 L	RUSH	
130	- South	S	75 L	RUSH	
131	Exterior - North	S	75 L	RUSH	
132	- East	S	75 L	RUSH	
133	- South	S	75 L	RUSH	
134	- West	S	75 L	RUSH	
135	Field Blank	S	75 L	RUSH	

Analysis Type	Description	TAT	Acceptable Sample Types
Spore Trap S	Identification & Enumeration of Fungal Spores	24 Hour	Spore Trap cassettes, Impact slides
S+	I & E of Fungal Spores + total dander, fiber and pollen count	24 Hour	Spore Trap cassettes, Impact slides
Direct ID D	ID and Semi-quantitative enumeration of spores and mycelium	24 Hour	Tape, Bio-tape, swab, bulk, agar plate for ID only
D+	ID and Enumeration with spores count	24 Hour	Tape, Bio-tape, swab, bulk, agar plate for ID only
Culture C1	Identification & Enumeration of Mold only	7 Day	Anderson Air Plate, Swab, Bulk
C2	Identification & Enumeration of Bacteria only	4 Day	Anderson Air Plate, Swab, Bulk
C3	Identification & Enumeration of Mold and Bacteria	7 Day	Anderson Air Plate, Swab, Bulk
C5	Coliform Screen for Sewage Bacteria	2 Day	Anderson Air Plate, Swab, Bulk
Dust Mite A1	Semi-quantitative analysis of dust mite allergen	24 Hour	Bulk Dust
Particle P	Total Particulate Analysis	24 Hour	Spore Trap cassettes, Impact slides, Bio-Tape

Relinquished by: <i>[Signature]</i>	Date: 10/1/18	Rcvd By: <i>[Signature]</i>	Date: 10/1/18	Time:
-------------------------------------	---------------	-----------------------------	---------------	-------

APPENDIX C
PERSONNEL AND LABORATORY CERTIFICATIONS

NEW YORK STATE - DEPARTMENT OF LABOR

DIVISION OF SAFETY AND HEALTH
LICENSE AND CERTIFICATE UNIT
STATE CAMPUS BUILDING 12

Mold Assessor Company License

Adelaide Env Health Assoc ,Inc
1511 Rte 22 Suite C24
BREWSTER, NY 10509

LICENSE NUMBER 00074
DATE OF ISSUE: 1/22/2018
EXPIRATION DATE 12/31/2019

This license is valid only for the contractor named above.



Eileen Franko, Director
FOR THE COMMISSIONER OF LABOR



STATE OF NEW YORK DEPARTMENT OF LABOR
MOLD ASSESSOR



JASON FULLUM

EXPIRES: 12-19

CERT# MA00050

01213 00430625 65



01213 00430625 65

EYES BLU
HAIR BRN
HGT 5' 11"

IF FOUND, RETURN TO:
NYS DOL - L&C UNIT
ROOM 161A BUILDING 12
STATE OFFICE CAMPUS
ALBANY NY 12240



September 28, 2018

Laboratory ID: 188863

Stephen Hayes
Hayes Microbial Consulting
3005 E. Boundary Terrace, Suite F
Midlothian, VA 23112

Dear Mr. Hayes:

Congratulations! The AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC's Analytical Accreditation Board (AAB) has approved Hayes Microbial Consulting as an accredited Environmental Microbiology laboratory.

Accreditation documentation includes the EMLAP accreditation certificate, scope of accreditation document and a copy of the current AIHA-LAP, LLC license agreement (if your completed agreement is not on file at AIHA-LAP, LLC). The accreditation symbol has been designed for use by all AIHA-LAP, LLC accredited laboratories. If your laboratory chooses to use the symbol in its advertising the laboratory's accreditation, you must complete and return the AIHA-LAP, LLC license agreement to a Laboratory Accreditation Specialist. Once submitted, an electronic copy of the accreditation symbol will be sent to you.

Laboratory accreditation shall be maintained by continued compliance with EMLAP requirements (*see Policy Modules 2D and 6*), which includes proficient participation in AIHA-LAP, LLC approved proficiency testing, demonstration of competency, or round robin program as indicated on the AIHA-LAP "Approved PT and Round Robin" webpage, its associated Scope/PT table, and as required in Policy Module 6, for all Fields of Testing (FoTs) for which the laboratory is accredited. An accredited laboratory that wishes to expand into a new FoT must submit an updated accreditation application to AIHA-LAP, LLC for review by the AAB.

Any changes in ownership, laboratory location, personnel, FoTs/Methods, or significant procedural changes shall be reported to AIHA-LAP, LLC in writing within twenty (20) business days of the change.

The accreditation certificate is the property of AIHA-LAP, LLC and must be returned to us should your laboratory withdraw or be removed from the EMLAP.

Again, congratulations. If you have any questions, please contact Lauren Schnack, Laboratory Accreditation Specialist, at (703) 846-0716.

Sincerely,

A handwritten signature in cursive script that reads "Cheryl O. Morton".

Cheryl O. Morton
Managing Director

AIHA Laboratory Accreditation Programs, LLC
3141 Fairview Park Drive, Suite 777, Falls Church, VA 22042 USA
main +1 703-846-0736 *fax* +1 703-207-8558

Twitter: @AIHA_LAP_LLC

R4 01/24/2018

Page 1 of 1



AIHA Laboratory Accreditation Programs, LLC

acknowledges that

Hayes Microbial Consulting

3005 E. Boundary Terrace, Suite F, Midlothian, VA 23112

Laboratory ID: 188863

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

- | | |
|--|--|
| <input type="checkbox"/> INDUSTRIAL HYGIENE | Accreditation Expires: |
| <input type="checkbox"/> ENVIRONMENTAL LEAD | Accreditation Expires: |
| <input checked="" type="checkbox"/> ENVIRONMENTAL MICROBIOLOGY | Accreditation Expires: August 01, 2020 |
| <input type="checkbox"/> FOOD | Accreditation Expires: |
| <input type="checkbox"/> 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.

Elizabeth Bair

Elizabeth Bair
Chairperson, Analytical Accreditation Board

Cheryl O. Morton

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



AIHA Laboratory Accreditation Programs, LLC

SCOPE OF ACCREDITATION

Hayes Microbial Consulting

3005 E. Boundary Terrace, Suite F, Midlothian, VA 23112

Laboratory ID: **188863**

Issue Date: 09/28/2018

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: 08/01/2010

EMLAP Category	Field of Testing (FoT)	Method	Method Description <i>(for internal methods only)</i>
Fungal	Air - Culturable	HMC-#103	In-house: Analysis of Culturable Air
	Bulk - Culturable	HMC-#104	In-house: Analysis of Culturable Bulk
	Surface - Culturable	HMC-#105	In-house: Analysis of Culturable Swab
	Air - Direct Examination	HMC-#101	In-house: Analysis of Spore Trap
	Bulk - Direct Examination	HMC-#102	In-house: Analysis of Direct Samples
	Surface - Direct Examination	HMC-#102	In-house: Analysis of Direct Samples

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