



**PLEASANTVILLE SCHOOL DISTRICT
PLEASANTVILLE, NEW JERSEY
MICROBIAL CLEARANCE TESTING
FINAL REPORT**

Prepared for:

Pleasantville School District
Pleasantville, New Jersey

Prepared by:

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PLEASANTVILLE SCHOOL DISTRICT PLEASANTVILLE, NEW JERSEY MICROBIAL CLEARANCE TESTING FINAL REPORT

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Table of Contents

1.0 BACKGROUND	4
2.0 APPROACH	4
3.0 FINDINGS & OBSERVATIONS	5
4.0 RECOMMENDATIONS	17
APPENDIX A – Lab Results	

1.0 BACKGROUND

Coastal Environmental Compliance, LLC (Coastal Environmental) was contacted to conduct a clearance investigation and testing of all of the Pleasantville School District Schools, Pleasantville, New Jersey, following mold remediation.

Clearance testing was conducted by Coastal Environmental Compliance, LLC.

2.0 APPROACH

2.1 *SAMPLING METHODOLOGY*

Microbiological air sampling was conducted in numerous locations within the affected schools, and one outdoor location using a low flow pump and air-o-cell cassettes (spore traps). Samples were evaluated for total count and identification of fungi, and other particulates.


Microbiological surface sampling was conducted using a cotton tipped swab on surfaces. Samples were evaluated for the presence of fungi.

ProLab, Inc., Weston, Florida, New Jersey, performed the analysis, according to guidelines proposed by the USEPA, and the AIHA Field Guide For The Determination Of Biological Contaminants In Environmental Samples, 1996.

3.0 FINDINGS & OBSERVATIONS

3.1 VISUAL INSPECTION

A visual inspection of each of the buildings was conducted in August and September, 2022, following a mold remediation. Concerns and visual observations are as follows:

 No visible areas of concern found in the remediation areas.

3.2 SAMPLE RESULTS

3.2.1 Microbiological Testing – SOUTH MAIN STREET SCHOOL



Microbiological testing was conducted in the building on September 2, 2022.

Sample results are as follows (see attached laboratory results):



Type of Sample	Location	Fungi Count (Spores/m3)	Type of Fungi
Air-o-cell	Ambient 1	53	Cladosporium
		110	Other Ascospores
		160	Aspergillus/Penicillium
		53	Cellulose fiber
	Total Mold Count	323	
Air-o-cell	Room 102	53	Cladosporium
		110	Aspergillus/Penicillium
		53	Cellulose fiber
	Total Mold Count	163	
Air-o-cell	Room 108	110	Cladosporium
		210	Aspergillus/Penicillium
		53	Cellulose fiber
	Total Mold Count	320	
Air-o-cell	Room 111	160	Cladosporium
		53	Aspergillus/Penicillium
		53	Cellulose fiber
	Total Mold Count	213	
Air-o-cell	Room 119	53	Cladosporium
		53	Aspergillus/Penicillium
		53	Cellulose fiber
	Total Mold Count	106	
Air-o-cell	Room 125	53	Chaetomium
		53	Aspergillus/Penicillium
		53	Cellulose fiber
	Total Mold Count	106	

Type of Sample	Location	Fungi Count (Spores/m3)	Type of Fungi
Air-o-cell	Room 127	110 53 Total Mold Count 110	Aspergillus/Penicillium Cellulose fiber
Air-o-cell	Room 219	53 110 53 Total Mold Count 163	Cladosporium Aspergillus/Penicillium Cellulose fiber
Air-o-cell	Room 209	53 110 53 Total Mold Count 163	Cladosporium Aspergillus/Penicillium Cellulose fiber
Swab	Room 101 Vent	Present Present Present	Cladosporium Hyphae Aspergillus/Penicillium* *Presence of current or former growth observed
Swab	Room 107 Vent	Present	Aspergillus/Penicillium* *No Presence of current or former growth observed. Only normally settled spores
Swab	Room 110 Vent	Present Present	Cladosporium Hyphae* *Presence of current or former growth observed
Swab	Room 124 Vent	Present	Aspergillus/Penicillium* * No Presence of current or former growth observed. Only normally settled spores
Swab	Room 128 Vent	Present Present Present	Cladosporium Hyphae Aspergillus/Penicillium* *Presence of current or former growth observed
Swab	Room 120 Vent	Present	Aspergillus/Penicillium* * No Presence of current or former growth observed. Only normally settled spores
Swab	Room 202 Vent	Present Present	Hyphae Aspergillus/Penicillium* *Presence of current or former growth observed
Swab	Room 207 Vent	Present	Aspergillus/Penicillium* * No Presence of current or former growth observed. Only normally settled spores

Air samples indicate the following:

-  Air sampling throughout the building exhibits acceptable levels of airborne fungi.
-  Concentration and species are comparable to ambient readings.

Swab samples indicate the following:

-  Swab sampling indicated the following areas passed clearance:
 - Room 107 vent
 - Room 124 vent
 - Room 120 vent
 - Room 207 vent
-  The following areas did not pass clearance and will need to be recleaned:
 - **Room 101 vent**
 - **Room 110 vent**
 - **Room 128 vent**
 - **Room 202 vent**

3.2.2 Microbiological Testing – WASHINGTON AVENUE SCHOOL

Microbiological testing was conducted in the building on August , 2022. Sample results are as follows (see attached laboratory results):

Type of Sample	Location	Fungi Count (Spores/m3)	Type of Fungi
Air-o-cell	Ambient 1	110	Alternaria
		1,500	Cladosporium
		210	Curvularia
		160	Hyphae
		1,300	Other Ascospores
		110	Other Basidiospores
		2,000	Aspergillus/Penicillium
	Total Mold Count	5,390	
Air-o-cell	Room 103	160	Other Basidiospores
		1,900	Aspergillus/Penicillium
	Total Mold Count	2,060	
Air-o-cell	Room 126	53	Bipolaris/Drechslera
		53	Nigrospora
		53	Other Basidiospores
		590	Aspergillus/Penicillium
	Total Mold Count	749	

Type of Sample	Location	Fungi Count (Spores/m3)	Type of Fungi
Air-o-cell	Library Total Mold Count	210 210	Aspergillus/Penicillium
Air-o-cell	Room 211 Total Mold Count	370 370	Aspergillus/Penicillium
Air-o-cell	Room 210 Total Mold Count	530 530	Aspergillus/Penicillium
Swab	Room 103	Door	Aspergillus/Penicillium

Air samples indicate the following:

- ✚ Air sampling throughout the building exhibits acceptable levels of airborne fungi.
- ✚ Concentration and species are comparable to ambient readings.

Swab samples indicate the following:

- ✚ Swab sampling indicates that the areas tested passed clearance.

3.2.3 Microbiological Testing – LEEDS AVENUE SCHOOL

Microbiological testing was conducted in the building on August 29, 2022. Sample results are as follows (see attached laboratory results):

Type of Sample	Location	Fungi Count (Spores/m3)	Type of Fungi
Air-o-cell	Ambient 1	320 53 2,700 270 53 53 160 1,000 Total Mold Count	Alternaria Bipolaris/Drechslera Cladosporium Curvularia Nigrospora Other Ascospores Other Basidiospores Aspergillus/Penicillium 4,609
Air-o-cell	Room 104 Total Mold Count	960 960	Aspergillus/Penicillium
Air-o-cell	Room 110 Total Mold Count	370 110 480	Aspergillus/Penicillium Pithomyces
Air-o-cell	Room 118 Total Mold Count	320 320	Aspergillus/Penicillium

Type of Sample	Location	Fungi Count (Spores/m3)	Type of Fungi
Air-o-cell	Room 120 Total Mold Count	210 210	Aspergillus/Penicillium
Air-o-cell	Room 121 Total Mold Count	270 270	Aspergillus/Penicillium
Air-o-cell	Room 126 Total Mold Count	320 320	Aspergillus/Penicillium
Air-o-cell	Room 203 Total Mold Count	500 500	Aspergillus/Penicillium
Air-o-cell	Room 204 Total Mold Count	270 270	Aspergillus/Penicillium
Air-o-cell	Room 209 Total Mold Count	430 430	Aspergillus/Penicillium
Air-o-cell	Outside Faculty Lounge Total Mold Count	1,600 1,600	Aspergillus/Penicillium
Air-o-cell	Nurse Total Mold Count	210 210	Aspergillus/Penicillium
Air-o-cell	Early Childhood Suite Total Mold Count	750 750	Aspergillus/Penicillium
Air-o-cell	2 nd Floor Office Total Mold Count	690 690	Aspergillus/Penicillium
Air-o-cell	Cafeteria Total Mold Count	320 320	Aspergillus/Penicillium
Air-o-cell	Library Office Total Mold Count	530 530	Aspergillus/Penicillium
Air-o-cell	Ambient 2 Total Mold Count	300 2900 200 10 40 3450	Ascospores Basidiospores Cladosporium Ganoderma Pestalotia
Air-o-cell	Room 107 Total Mold Count	1300 300 100 40 1740	Aspergillus/Penicillium Basidiospores Cladosporium Ganoderma
Swab	Room 104 Table	Present	Aspergillus/Penicillium*
Swab	Room 110 Door Bath	Present	Aspergillus/Penicillium*

Type of Sample	Location	Fungi Count (Spores/m3)	Type of Fungi
Swab	Room 118 Book Shelf	Present	Aspergillus/Penicillium*
Swab	Room 120 Half Moon Table	Present	Aspergillus/Penicillium*
Swab	Room 121 HVAC Vent	Present	Aspergillus/Penicillium*
Swab	Room 126 Door	Present	Aspergillus/Penicillium*
Swab	Room 203 Chair	Present	Aspergillus/Penicillium*
Swab	Room 204 Chair	Present	Aspergillus/Penicillium*
Swab	Room 209 Under Upper Cabinet	Present	Aspergillus/Penicillium*
Swab	Outside Faculty	Present	Aspergillus/Penicillium*
Swab	Nurse Door	Present	Aspergillus/Penicillium*
Swab	Main Office Under Vent	Present	Aspergillus/Penicillium*
Swab	Library Door	Present	Aspergillus/Penicillium*
Swab	Library 2 nd Door	--- Rare	No fungi detected Fibrous particulate
Swab	Cafeteria Door	--- Medium	No fungi detected Fibrous particulate

*No presence of current or former growth found. Only normally settled spores observed.

Air samples indicate the following:

- ✚ Air sampling throughout the most of the building exhibits acceptable levels of airborne fungi.
- ✚ Concentration and species are comparable to ambient readings.
- ✚ Room 107 did not pass clearance either visually nor with the air sample results. The air sample indicated elevated levels of Aspergillus/Penicillium. Additional cleaning was required.

Swab samples indicate the following:

- ✚ Swab sampling indicates that the areas tested passed clearance. No presence of current or former growth found. Only normally settled spores were observed.

3.2.4 Microbiological Testing – PLEASANTVILLE MIDDLE SCHOOL

Microbiological testing was conducted in the building on August 29, 2022. Sample results are as follows (see attached laboratory results):

Type of Sample	Location	Fungi Count (Spores/m3)	Type of Fungi
Air-o-cell	Ambient	270 430 320 270 5,700 370 Total Mold Count 7,360	Alternaria Bipolaris/Drechslera Other Ascospores Other Basidiospores Aspergillus/Penicillium Smuts, myxomycetes
Air-o-cell	Room A122 Total Mold Count	850 850	Aspergillus/Penicillium
Air-o-cell	Room A108 Total Mold Count	430 430	Aspergillus/Penicillium
Air-o-cell	Room B204 Total Mold Count	210 210	Aspergillus/Penicillium
Air-o-cell	Room B209 Total Mold Count	210 53 850 1,113	Cladosporium Curvularia Aspergillus/Penicillium
Air-o-cell	Room B210 Total Mold Count	430 430	Aspergillus/Penicillium
Air-o-cell	Room C222 Total Mold Count	690 690	Aspergillus/Penicillium
Air-o-cell	Room B302 Total Mold Count	370 370	Aspergillus/Penicillium
Air-o-cell	Room C308 Total Mold Count	590 590	Aspergillus/Penicillium
Air-o-cell	Room C323 Total Mold Count	910 910	Aspergillus/Penicillium
Air-o-cell	Ambient 2 Total Mold Count	200 1800 200 2200	Ascospores Basidiospores Cladosporium

Type of Sample	Location	Fungi Count (Spores/m3)	Type of Fungi
Air-o-cell	Room A121	40	Basidiospores
	Total Mold Count	40	
Air-o-cell	Office next to Principal's Office	---	None detected
	Total Mold Count		
Air-o-cell	Room B102G	--	None detected
	Total Mold Count		
Air-o-cell	Nurse	40	Aspergillus/Penicillium
		90	Basidiospores
		40	Cercospora
	Total Mold Count	170	
Air-o-cell	Room B102I	40	Basidiospores
	Total Mold Count	40	
Air-o-cell	Main Office Lobby	40	Ascospores
		40	Basidiospores
	Total Mold Count	80	
Air-o-cell	Principal's Office	90	Basidiospores
		40	Cladosporium
	Total Mold Count	130	
Air-o-cell	Room B102J	90	Ascospores
		90	Aspergillus/Penicillium
		870	Basidiospores
		40	Cladosporium
	Total Mold Count	1090	
Swab	Room A108 Cabinet	Present	Aspergillus/Penicillium*
Swab	Room B204 HVAC Vent	Present	Aspergillus/Penicillium*
Swab	Room B209 Under Chair	Present	Aspergillus/Penicillium*
Swab	Room B210 Inside File Cabinet	Present	Aspergillus/Penicillium*
Swab	Room C222 Inside Cabinet	Present	Aspergillus/Penicillium*
Swab	Room B302 Under Table	Present	Aspergillus/Penicillium*
Swab	Room C308 Under Upper Cabinets	Present	Aspergillus/Penicillium*
Swab	Room C323 Under Table	Present	Aspergillus/Penicillium*

Type of Sample	Location	Fungi Count (Spores/m3)	Type of Fungi
Swab	Room A122 Chair	Rare Rare Rare Rare Rare Rare Rare Rare Rare Rare	Alternaria Aspergillus/Penicillium Chaetomium Cladosporium Curvularia Myxomycetes Pithomyces Hyphal fragment Pollen Fibrous particulate
Swab	Main Office Lobby	--- Rare	No fungi detected Fibrous particulate
Swab	Principal's Cabinet	--- Rare	No fungi detected Fibrous particulate
Swab	B102I Door	--- Rare	No fungi detected Fibrous particulate
Swab	B102J Desk	--- Rare	No fungi detected Fibrous particulate
Swab	Nurse's Exam Room Door	--- Rare	No fungi detected Fibrous particulate
Swab	B102G	--- Rare	No fungi detected Fibrous particulate

*No presence of current or former growth observed. Only normally settled spores observed.

Air samples indicate the following:

- ✚ Air sampling throughout the building exhibits acceptable levels of airborne fungi.
- ✚ Concentration and species are comparable to ambient readings.

Swab samples indicate the following:

- ✚ Swab sampling indicates that the areas tested passed clearance. No evidence of mold growth was found, only normally settled spores observed.

3.2.5 Microbiological Testing – PLEASANTVILLE HIGH SCHOOL

Microbiological testing was conducted in the building on August 29, 2022. Sample results are as follows (see attached laboratory results):

Type of Sample	Location	Fungi Count (Spores/m3)	Type of Fungi
Air-o-cell	Ambient	320 3,000 370 53 320 1,500 5,563	Alternaria Cladosporium Hyphae Nigrospora Other Ascospores Aspergillus/Penicillium
Air-o-cell	Room C105 Total Mold Count	110 110	Aspergillus/Penicillium
Air-o-cell	Room C110 Total Mold Count	3,900 3,900	Aspergillus/Penicillium
Air-o-cell	Room D101 Total Mold Count	850 850	Aspergillus/Penicillium
Air-o-cell	Technology Total Mold Count	530 530	Aspergillus/Penicillium
Air-o-cell	Room C102 Total Mold Count	1,900 1,900	Aspergillus/Penicillium
Air-o-cell	Room B202 Total Mold Count	480 110 480	Aspergillus/Penicillium Cellulose fiber
Air-o-cell	TV Studio Total Mold Count	110 110	Aspergillus/Penicillium
Air-o-cell	Auditorium Total Mold Count	110 590 700	Cladosporium Aspergillus/Penicillium
Air-o-cell	Room A106 Total Mold Count	590 590	Aspergillus/Penicillium
Air-o-cell	Room D102 Total Mold Count	320 320	Aspergillus/Penicillium
Air-o-cell	Room A100 Total Mold Count	160 230,000 230,160	Hyphae Aspergillus/Penicillium
Air-o-cell	CST Total Mold Count	1,100 1,100	Aspergillus/Penicillium
Air-o-cell	Music Total Mold Count	430 430	Aspergillus/Penicillium

Type of Sample	Location	Fungi Count (Spores/m3)	Type of Fungi
Air-o-cell	Room B103	320	Aspergillus/Penicillium
	Total Mold Count	320	
Air-o-cell	Faculty Room 2 nd Floor	430	Aspergillus/Penicillium
	Total Mold Count	430	
Air-o-cell	Room A206	430	Aspergillus/Penicillium
	Total Mold Count	430	
Air-o-cell	Ambient 2	200	Ascospores
		1200	Basidiospores
	Total Mold Count	1400	
Air-o-cell	Room A109	---	None detected
	Total Mold Count		
Air-o-cell	Room C110	---	None detected
	Total Mold Count		
Swab	Technology Cabinet	Present	Aspergillus/Penicillium*
Swab	D102 Table	Present	Aspergillus/Penicillium*
Swab	D101 Vent	Present	Aspergillus/Penicillium*
Swab	A106 Book Shelf	Present	Aspergillus/Penicillium*
Swab	A109 Table	Present	Aspergillus/Penicillium*
Swab	B202 Table	Present	Aspergillus/Penicillium*
Swab	C110 Door	Present	Aspergillus/Penicillium*
Swab	TV Studio Table	Present	Aspergillus/Penicillium*
Swab	B103 Table	Present	Aspergillus/Penicillium*
Swab	Faculty Second Floor Table	Present	Aspergillus/Penicillium*
Swab	Music Office Door	Present	Aspergillus/Penicillium*
Swab	C102 Table	Present	Aspergillus/Penicillium*

Type of Sample	Location	Fungi Count (Spores/m3)	Type of Fungi
Swab	C105 Desk	Present	Aspergillus/Penicillium*
Swab	CST Office Door	Present	Aspergillus/Penicillium*
Swab	Auditorium Door	Present	Aspergillus/Penicillium*
Swab	A206 Table	Present	Aspergillus/Penicillium*

*No presence of current or former growth observed. Only normally settled spores observed.

Air samples indicate the following:

- ✚ Air sampling throughout the building exhibits acceptable levels of airborne fungi with the exception of Rooms C110 & A100.
- ✚ Concentration and species are comparable to ambient readings.
- ✚ In Rooms C110 & A100, additional air scrubbing and cleaning was required.

Swab samples indicate the following:

- ✚ Swab sampling indicates that the areas tested passed clearance. No evidence of mold growth was found, only normally settled spores observed.

4.0 RECOMMENDATIONS

Based upon the testing results and visual observations, Coastal Environmental Compliance, LLC recommends the following:

RECOMMENDATIONS:

Pleasantville High School:

- Rooms A100 & C110 need to be recleaned.

South Main Street School:

- The following areas did not pass clearance and will need to be recleaned:
 - Room 101 vent
 - Room 110 vent
 - Room 128 vent
 - Room 202 vent

Leeds Avenue School:

- Room 107 did not pass clearance and needs to be recleaned in its entirety.

Washington Avenue School & Pleasantville Middle School:

- The buildings have been effectively remediated for mold.
- No further action is required.

Coastal Environmental Compliance, LLC is pleased to have provided The Pleasantville School District with professional services.

APPENDIX A

LABORATORY RESULTS