



**PLEASANTVILLE SCHOOL DISTRICT
MIDDLE SCHOOL
ROOMS A-221 AND C-202
PLEASANTVILLE, NEW JERSEY
INDOOR AIR QUALITY INVESTIGATION
FINAL REPORT**

Prepared for:

Pleasantville School District
Pleasantville, New Jersey

Prepared by:

Coastal Environmental Compliance, LLC
P.O. Box 167
Hammonton, NJ 08037
P: 609-685-9984 * F: 609-561-6197
coastalenvironmental@hotmail.com

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Prepared By:

Cathy Ledden

Cathy Ledden
Sr. Environmental Compliance Officer

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1.0 BACKGROUND

Coastal Environmental Compliance, LLC (Coastal Environmental) was contacted to conduct an indoor air quality inspection and testing within classrooms A-221 and C-202 at Pleasantville Middle School, 801 Mill Road, Pleasantville, New Jersey.

The inspection and testing was conducted due to staff complaints.

This report details the laboratory results and visual inspection.

2.0 APPROACH

2.1 SAMPLING METHODOLOGY

Microbiological air sampling was conducted throughout the both classrooms, and one outdoor location using a low flow pump and air-o-cell cassettes (spore traps). Samples were evaluated for total count and indemnification of fungi, and other particulates.

ProLab, Weston, Florida 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, along with testing was conducted on October 11, 2018.

Below, please find the results of the visual inspection throughout the Classrooms.

Classroom A-221

- ✚ Musty odor was present during the inspection
- ✚ Visible mold is present on the computers, computer equipment and computer tables.
- ✚ Ceiling tiles on the back wall have water stains.
- ✚ Minor dust and debris is present within the ceiling HVAC unit vents.

Classroom C-202

- ✚ Musty odor was present during the inspection
- ✚ No visible mold is present within this room.
- ✚ Ceiling tiles on the back wall have water stains.
- ✚ Minor dust and debris is present within the ceiling HVAC unit vents and ceiling tiles.

General Notes

- ✚ Staff indicated that when it rains, the ceiling leaks consistently. This is an indication that the roof needs to be repaired.
- ✚ Most of the leaks appear mainly on the edges of both classrooms.
- ✚ Due to the high humidity in both rooms, utilize a dehumidifier in each room during the summer months.
- ✚ The teacher observed mold growing on a sports pennant hanging within the classroom. This pennant was bagged by the teacher and given to the principal.

Please see attached contractors Scope of Work for addressing these issues.

3.2 SAMPLE RESULTS

Microbiological testing was conducted at Pleasantville Middle School on October 11, 2018. The results are as follows.

Type of Sample	Location	Fungi (CTS/m3)	Type of Fungi
Air-o-cell	Ambient	160 480 110	Other Ascospores Other Basidiospores Smuts, myxomycetes
	Total Fungi Count	750	
Air-o-cell	Room C-202	53 270	Cladosporium Penicillium/Aspergillus
	Total Fungi Count	323	
Air-o-cell	Room A-221	3100 370	Penicillium/Aspergillus Smuts, myxomycetes
	Total Fungi Count	3470	

The air testing results for Room C-202 proved acceptable, only ceiling tiles need to be replaced in this room.

The air testing results for Room A-221 proved unacceptable. Due to the visual inspection and air sample results, cleanup actions are recommended.

4.0 RECOMMENDATIONS

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

- ✚ Consult with a roofing contractor to determine the cause of the leaks.
- ✚ Per the district, the custodial staff will conduct the mold clean up, by following the attached scope of work
- ✚ Clean up procedure will be conducted while utilizing air scrubbers.
- ✚ Utilize dehumidifiers in these rooms during the summer months.
- ✚ Room A-221 - Following mold cleanup and prior to occupancy, conduct follow up air and/or surface sampling to ensure clean up efficacy.

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

5.0 SCOPE OF WORK

This specification provides performance requirements and evaluation criteria for the work to be performed at Pleasantville Middle School, 801 Mill Road, Pleasantville, New Jersey.

The work plan is as follows:

AREAS UNDER CONTAINMENT:

Containment is required in all work areas.

Where containment is necessary, the areas will be isolated using 6-mil polyethylene sheeting. The work areas under containment will be placed under negative pressure to ensure that the contamination does not spread to unaffected areas. Negative pressure is established by installing HEPA filtered air filtration device inside the containment. The negative air machines should be exhausted to the exterior of the building.

All soft items that are within containment areas should be HEPA vacuumed and removed prior to work being performed. All items within the containment that are not being removed, and all surfaces within the containment must be HEPA vacuumed and treated with a biocide.

Upon removal of walls, insulation and other materials from the work area, all materials should be wrapped in 6-mil poly sheeting, HEPA vacuumed and wiped with a biocide solution prior to transportation to the waste container outside the building.

ALL WORK AREAS:

The biocide solution should be allowed to remain on the treated surfaces for the appropriate dwell time according to manufacturer's instructions to ensure the effectiveness of the biocide.

PERSONNEL PROTECTION:

Respiratory Protection:

The contractor shall provide workers with personally issued and marked respiratory protection equipment approved by NIOSH/MISHA. As a minimum, respiratory protection should consist of full-face dual cartridge respirators.

Protective Clothing:

The contractor must provide workers with sufficient sets of protective disposable clothing consisting of full body coveralls, head covers, gloves and boots in sizes to properly fit individual workers. All workers should wear polyethylene coated Tyvek suits with attached boots or equivalent. Gloves may include latex surgical gloves.

FOLLOW UP TESTING:

If the results of the follow up air, bulk and wipe sampling reveal unacceptable levels of fungi in the work areas, the contractor will be required to re-clean those areas until testing results are acceptable.

SIGNAGE:

The Contractor must post warning signs at all entrances or openings to the work area. The signs must be on yellow paper with black lettering, and indicate the following:

WARNING: DO NOT ENTER
MICROBIOLOGICAL REMEDIATION WORK IN PROGRESS

SCOPE OF WORK:

The following are the locations and dimensions for work to be performed:

Notes:

- Containment = C No Containment = NC
- Walls are indicated as A, B, C, D. Wall A is the wall the room's entrance is located on, wall B is the wall immediately to the left, wall C is the wall opposite the entrance to the room, and wall D is to the right.
- Wet Wash: wet cleaning with a bleach solution or equivalent biocide
- Encapsulate: Coating of affected areas with an encapsulant such as Fosters 40/20 or equivalent.

C/NC	Location	Area/Dimensions	Work to be Performed
NC	Room A-221	Wall C – Computer tables (3), computers, and all computer equipment. (such as wires, mouse, keyboards, etc.)	<ul style="list-style-type: none"> ▪ HEPA vacuum ▪ Clean using a biocide solution ▪ HEPA vacuum again
NC	Rooms A-221 & C-202	Water Stained Ceiling Tiles	<ul style="list-style-type: none"> ▪ Remove & Discard ▪ Replace
NC	Rooms A-221 & C-202	HVAC Univents	<ul style="list-style-type: none"> ▪ Clean vents ▪ HEPA vacuum ▪ Clean using a biocide solution ▪ Change filters
NC	Room A-221	Air Scrubbing	<ul style="list-style-type: none"> ▪ Conduct air scrubbing until this room passes air clearance testing.

APPENDIX A
LAB RESULTS