



Air Quality Management Services, Inc.
"Discovering Solutions for Healthier Living"

INDOOR AIR QUALITY EVALUATION

Biddeford Middle School

25 Tiger Way – Biddeford, Maine



PREPARED FOR

Biddeford School Department
C/o Mr. Phil Radding – Director of Facilities
PO Box 586
Biddeford, Maine 04005

Date of Inspection

October 29th, 2010

AQM PROJECT #10-455A

Nick Ferrala, CIEC
Industrial Hygienist

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AQM SUMMARY REPORT: Project # 10-455A				Report Type: IAQ <input checked="" type="checkbox"/>							
Inspection Date: October 29 th , 2010		Onsite Industrial Hygienist: Nick Ferrala, CIEC									
Client: Biddeford School Department C/o Mr. Phil Radding		Property Owner: City of Biddeford									
Mailing Address: PO Box 586 - Biddeford, Maine		Location: Middle School 25 Tiger Way, Biddeford, Maine									
Concern: Unknown / Not specified; sample locations and types were determined / requested by the Client.											
Actions to Date:											
<input type="checkbox"/> No Actions To Date		<input type="checkbox"/> Carpeting Cleaned / Extracted / Treated									
<input type="checkbox"/> Installed Fresh-air Source and/or Air Exchange Unit		<input type="checkbox"/> Area(s) HEPA Vacuumed and Damp Dusted									
<input type="checkbox"/> Cleaned Mechanical System - including Ductwork		<input type="checkbox"/> HEPA Air Cleaners Installed - Portable									
<input type="checkbox"/> Mechanical System Filter(s) Changed		<input type="checkbox"/> Water-damaged Materials Removed - See Comments									
Comments: Unknown actions to date											
TESTING											
Sampling Decision Logic		<input checked="" type="checkbox"/> Air samples were collected to determine airborne influences. <input type="checkbox"/> Surface samples were collected to characterize suspect contamination. <input checked="" type="checkbox"/> Health Issues reported <input checked="" type="checkbox"/> None <input type="checkbox"/> Allergies <input type="checkbox"/> Asthma <input type="checkbox"/> Other:									
Comments: No health issues reported to AQM.											
RECOMMENDED GUIDELINES				TESTING METHOD							
Carbon Dioxide (CO ₂)	ASHRAE	Not Applicable	Gray Wolf DirectSense 100	<input checked="" type="checkbox"/>	Airborne Mold	Allergenco-D	<input checked="" type="checkbox"/>				
	OSHA	5000 ppm	Colorimetric	<input type="checkbox"/>		N6	<input type="checkbox"/>				
Carbon Monoxide (CO)	ASHRAE	9 ppm	Gray Wolf DirectSense 100	<input checked="" type="checkbox"/>	Surface Mold	Tape	<input type="checkbox"/>				
	OSHA	50 ppm	Colorimetric	<input type="checkbox"/>		Swab	<input type="checkbox"/>				
Relative Humidity (%)	ASHRAE	30 - 60%	Gray Wolf DirectSense 100	<input checked="" type="checkbox"/>	Airborne Particulate	Lighthouse IAQ 3016	<input checked="" type="checkbox"/>				
			Extech RH-401 Pen	<input type="checkbox"/>		NIOSH/EPA	<input type="checkbox"/>				
Optimal Recommended Temperatures (°F)	Summer	72 - 78 °F	Gray Wolf DirectSense 100	<input checked="" type="checkbox"/>	Total Volatile Organic Compounds (TVOC)	ppb-RAE	<input type="checkbox"/>				
	Winter	68 - 76 °F	WBGT	<input type="checkbox"/>		Detector Tube	<input type="checkbox"/>				
# of Air Samples	6	# of Surface Samples	0	# of Bulk Samples	0	# of Swab Samples	0				
Other Testing:		None									
FINDINGS											
Air Quality Monitoring Readings				TPM (Total Particulate Matter), ug / m³ Sampled for 1 minute						TVOC	
Location	CO ₂ (ppm)	CO (ppm)	Temp. °F	RH%	0.3um	0.5um	1.0um	2.5um	5um		10um
Instrument Zero	----	----	----	----	0.00	0.00	0.00	0.00	0.00	0.00	----
Outdoor	220	0.0	62.8	42.5	1.09	1.37	2.00	5.00	11.83	12.29	----
Room A001	435	0.1	71.4	37.6	0.63	1.10	4.49	24.90	104.9	187.6	----
Room A002	220	0.2	71.6	36.1	0.47	0.58	0.81	1.73	4.66	6.51	----
Room A003	285	0.1	72.1	35.5	0.54	0.67	0.93	1.85	4.78	7.55	----
Elevator Shaft	420	0.2	72.7	36.0	0.73	1.94	10.77	70.82	289.2	453.8	----
Room A040	450	0.2	75.5	34.8	0.62	1.48	8.64	52.89	221.4	347.1	----
EPA Criteria	----	----	----	----	----	----	----	15.0	----	150.0	----
Comments	EPA Criteria = National Ambient Air Quality Standards (NAAQS). AQM sample times are 1 minute; EPA criteria based on 24hrs (10um) and annual average (2.5um). Particulate levels determined by AQM are a screening and use methodology different than that required by EPA. NAAQS values are for outdoor air - there are no standards for indoor air.										
OBSERVATIONS / FINDINGS											
Comments	<ul style="list-style-type: none"> ▶ Carbon monoxide and carbon dioxide readings were within published Guidelines, and for carbon dioxide, indoor levels were not significantly higher than outdoor levels - no risks anticipated. ▶ Temperature and relative humidity readings were within the ASHRAE Comfort Guidelines - no risks anticipated. ▶ Total Particulate Matter (TPM) was below outdoor levels as well as the reference EPA criteria in rooms A002 and A003. TPM in Rooms A001, A040 and Elevator shaft was not significantly above the outdoor levels for the smaller particulate sizes (0.3 and 0.5um) but was elevated above the outdoor levels for the medium and larger sizes (1.0 - 10um). Levels were also above the EPA reference criteria in these areas. ▶ Elevator shaft readings were made at the floor seam (elevator door open) on the basement level. Based on the above readings the Elevator shaft may be the source of elevated particulates in the area. 										

AQM SUMMARY REPORT: Project # 10-455A**FUNGAL GROWTH - See laboratory results for details**

Results are as follows:

Air Samples: Concentrations similar to outdoor control (Sample A1) and / or typical levels for an occupied indoor location – no immediate risks anticipated
 Concentrations above background (outdoor control) Trace Low Moderate High
 Air sample analysis suggests surface contamination is influencing the overall airborne fungal burden.

Surface Samples: Surface samples were not collected: Not authorized / requested No visible Fungi
 No active fungi detected for surfaces tested
 Fungal Growth Detected Trace Low Moderate High
 Personal contents have visible fungal growth or impact.
 Fungal contamination appears to be isolated to surfaces with minimal airborne influences.

Comments: ▶ Air sample results indicate that indoor spore levels were well below those of the outdoor reference sample. There were low levels of spores of concern (Aspergillus/Penicillium-like, commonly associated with water / moisture issues and indoor growth) in Room A001 and the Elevator Shaft, and a trace level of these spores in Rooms A003 and A040.

RECOMMENDATIONS

- Ensure adequate fresh-air source to mechanical system with per current applicable ASHRAE Standards.
- Ensure the system filters are pleated with an efficiency rating of at least 40% (or greater) and properly sized for the system.
- Consult a Professional Engineer or Qualified Contractor to determine the appropriate mechanical system modifications.
- The HVAC system should be cleaned (including the ductwork) based on the report that the system has not been cleaned since the original install and / or airborne mold spore levels. The HVAC system should be part of a maintenance plan that includes monthly inspections of the filters and total system cleanings every three (3) to five (5) years, based on location and environmental influences.
- Enlist the services of an HVAC Cleaning Contractor that is competent / knowledgeable with NADCA ACR-2005 Cleaning Standards.
- Upgrade Housekeeping - Detail clean (HEPA vacuum & damp dust) to control dust / particulate levels in the hard to reach areas.
- A resilient floor covering (vinyl tile / linoleum) or like product should be considered as a finished floor covering to afford ease of maintenance and resists moisture influences.
- Control water intrusion into area / space.
- Mold Remediation should be undertaken by a qualified Contractor in accordance with the IICRC S520 Standard or other similarly recognized protocols. See Comments.
- Areas of immediate impact should be isolated from the unaffected areas of the building to prevent contaminant communications thus limiting damages and exposure risks.
- High Temperature Steam Clean and Treat all carpeting and ensure areas are rapidly dried to reduce microbial influences.

Comments: ▶ Based on mold and particulate results it is possible that the Elevator Shaft is the source of elevated particulates and mold spores of concern (no other issues were observed or reported to AQM).
▶ Isolate the elevator shaft from adjacent areas.
▶ Evaluate conditions within the elevator shaft and remove / clean any mold growth, if discovered. Ensure to correct any water / moisture issues in the Elevator Shaft if present.
▶ Detail Clean Rooms A001, A040, Elevator Car and Basement Level Hallway in the area of the elevator due to elevations in airborne mold spores and/or particulates.

END OF SECTION

**GENERAL INDOOR AIR QUALITY GUIDELINES
& TESTING METHODOLOGIES**

General Indoor Air Quality Guidelines and Testing Methodologies

AQM evaluates carbon monoxide, carbon dioxide, temperature and relativity using a Gray Wolf DirectSense100 to evaluate general air quality parameters. These parameters are evaluated to determine fresh air exchange efficiencies and building purge rates as well as background ambient moisture levels.

The data collected was compared to standards outlined by the American Society of Heating, Refrigeration, and Air conditioning Engineers (ASHRAE), American Conference of Governmental Industrial Hygienist (ACGIH), and the Occupational Safety and Health Administration (OSHA).

Airborne Total Mold and Non-viable Particulates

AQM collects airborne fungi samples using Allergenco-D air sampling cassettes designed for evaluating total airborne fungi and non-viable particulates. Samples are collected at 15-liters per minute over 5-minute or 10-minute sampling periods each depending on site conditions. The samples are analyzed using direct microscopy examination.

The Allergenco-D is a direct read total particulate air sampling device. It works using the inertial impaction principle similar to other spore trap devices. It is designed for the rapid collection and analysis of airborne particulate including bioaerosols. The particulate includes fibers (e.g. fiberglass, cellulose, clothing fibers) opaque particles (e.g. fly ash, combustion particles, copy toner, oil droplets, paint), and bioaerosols (e.g. mold spores, pollen, insect parts, skin cell fragments).

Typical Indoor Levels (collected using Allergenco-D)

Particulates	Average Concentrations	Rating 0 - 5
Skin Cell Fragments	7,500 to 10,000	2 - 3
Fiberglass Fibers	50 to 75	n.d. - 2
Other Fibers	1,000 to 2,500	n.d. - 2
Black Opaque Particles	2,500 to 5,000	n.d. - 1
Insect Parts	< 27	n.d. - 1
Pollen Grains	< 27	n.d. - 1
Background Debris Rating	1+ to 4+ (low to high)	n.d. - 2

n.d. - None Detected

Airborne Particulate Assessment

AQM conducts testing in representative areas to determine airborne particulate influences and assess general indoor air quality parameters. Testing is conducted to assess airborne particulates using a Lighthouse IAQ 3016 Laser Particle Counter. This unit quantifies particulates by size (microns 0.3 to 10.0). Results are comparatively evaluated to determine particulate concentrations by size and evaluate the efficiencies of the air filtering systems and to identify areas with elevated particulate concerns.

Fungal influences are usually suspected when predominantly high concentrations are noted between 1.0 microns to 10 microns respectively.

Airborne Bacteria and Fungi

Currently there are no set standards or guidelines for bioaerosol / non-aerosolized microbial exposure levels which suggest dose response risks associated with a specific exposure level to airborne environmental bacteria or fungi. Most important, sensitivities to microbial exposures vary widely between individuals with the immuno-compromised population being the most susceptible.

Current studies suggest indoor airborne microbial levels in mechanically ventilated buildings should be less than the levels identified in outdoor air. Building without mechanical ventilations should be either similar in concentration to the outdoor air or less than the outdoor concentrations.

The data also suggests that indoor microbial concentrations that exceed outdoor concentrations by 30% or more should be considered elevated. Additionally, identification of specific microorganisms indoors not identified in the outdoor samples collected suggests an indoor source and should be considered a potential risk based on genera or species isolated. It is important for determining health risk associated with bioaerosols and non-aerosolized microbials to keep in mind that the colony count alone is not the only determining factor. The species of organism(s) identified is sometimes more important than the colony count (number of organisms). The World Health Organization (WHO) and the Indoor Air Quality Association recommends fungi levels not exceed 50 CFUs m³ (for any single species) or 150 to a max of 300 CFUs m³ (for total species) when compared to the outdoor samples collected, considering species and/or other risk factors that might be present.

Fungi Bulk Dusts (Carpet Vacuum Samples)

The current Industry Guidelines suggest the following:

< 5,000 CFU / Ft ²	Normal
< 25,000 CFU / Ft ²	Moderate Risk
< 75,000 CFU/ Ft ²	High Risk
> 75,000 CFU/ Ft ²	Very Active Growth

General Indoor Air Quality Testing

Carbon Dioxide

The OSHA Permissible Exposure Limit (PEL) for carbon dioxide is 5000 ppm. These OSHA standards were designed for industrial settings and not office or school settings.

The ASHRAE 62 comfort guideline for indoor air recommends levels be maintained below 1000 parts of carbon dioxide per million parts of air (ppm) or no more than 700

ppm greater than the outdoor readings. Elevated carbon dioxide concentrations can cause symptoms such as headaches, nausea, dizziness, fatigue, and drowsiness.

Carbon Monoxide

OSHA's Permissible Exposure Limit (PEL) for carbon monoxide is 50 ppm. These OSHA standards were designed for industrial settings and not office or school settings.

ASHRAE guidelines for indoor air quality comfort limits recommend levels be maintained below 9 ppm. Elevated carbon monoxide concentrations can cause symptoms such as; severe headaches, nausea, dizziness, fatigue, and drowsiness, and in high concentrations, death.

Relative Humidity

Relative Humidity levels should be maintained between 30% to 60%. AQM recommends levels be maintained between 35% to 55% optimally. When relative humidity levels are below these guidelines, symptoms can occur causing discomfort such as; dry eyes, nose, throat, and irritated upper respiratory tract. Low relative humidity dries the mucus membranes, which prohibits the body's normal ability to rid our body of certain contaminants increasing the potential for discomforts associated with eyes, noses, and throats. Elevated relative humidity can contribute to a conducive environment for microbial growth associated with moisture damage.

Temperature

Temperatures can affect people psychologically; they may assume there is a problem when it is too warm or when there is no air movement in their work area, even in the absence of an air contaminant.

ASHRAE Recommended Comfort Guidelines

Relative Humidity %	Winter Season °F	Summer Season °F
30	68.5 to 76.0	74.0 to 80.0
40	68.5 to 75.5	73.5 to 79.5
50	68.5 to 74.5	73.0 to 79.0
60	68.0 to 74.0	72.5 to 78.0

Applies for persons clothed in typical summer and winter clothing, at light, mainly sedentary activity.

END OF SECTION

ASSESSMENT LIMITATIONS

AQM

ASSESSMENT LIMITATIONS

The observations, conclusions and recommendations described in this assessment report were made under the conditions stated herein, taking into account any information / concerns provided or reported to AQM, and were arrived at in accordance with generally accepted standards related to indoor air quality investigations and good industrial hygiene practice. The conclusions presented in the report were based solely upon the services described herein, and not on scientific tasks or procedures beyond the scope of described services, time and / or any budgetary constraints. Assessments were made at the request of the Client based on information provided at the time of authorization to proceed with the evaluation. This report is prepared for the Client's use only and in accordance with scope of services requested, and should not be distributed to other parties for review and reliance.

The findings relating to this assessment were not intended to be exhaustive in nature, nor do they attempt to identify all possible sources of indoor contaminants, chemicals or even mold throughout the entire structure. Building materials may contain asbestos. In the event that asbestos building materials are suspected, further evaluation should be made prior to renovations in accordance with Federal, State, and Local regulations – as applicable. **Note:** Effective April 22nd, 2010 Environmental Protection Agency's (EPA) Renovation, Repair, and Painting (RRP) rule is in effect. This means that any renovation, repair and painting activities on **target housing** or **child-occupied facility** built before 1978 performed for compensation after April 22nd, 2010 falls under this rule. It is mandatory that any renovation impacting painted surfaces in a facility built before 1978 be tested for presence of lead-based paints. A Contractor (or Firm) trained and certified under this rule shall perform removal of lead-based painted surfaces, **ONLY** if lead-based paints are present and renovation / remediation of the structure falls under the definition of EPA's new rule. You can find EPA's RRP rule and definitions at their website: <http://www.epa.gov/lead/pubs/renovation.htm>. The chosen contractor to perform activities disturbing lead-based painted surfaces will comply with all State, Federal, Local Health and Safety Regulatory Requirements (which ever is more stringent).

Any measured results, analysis data, and / or physical conditions observed are only valid for the period in which this inspection / testing was conducted. Certain assumptions can be made based on information provided to AQM on or before the time of the assessment coupled with analytical data and observations made at the time of the inspection / testing.

Where such quantitative laboratory analyses have been conducted by an outside laboratory, AQM has relied upon the data provided, and has not conducted an independent evaluation of the reliability of the data. This data have been reviewed and interpretations made as presented in the report.

Historical events or ambient air conditions that may have existed prior to this assessment cannot be correlated in any way with the enclosed data. No warranty, real or implied, is made as to what was or is the exact cause or source that may have adversely affected the indoor air quality prior to the date of this assessment.

The report is based on AQM's professional opinion and on our experience in conjunction with information gathered during the assessment and laboratory data provided. Information and recommendations set forth in this report are intended to characterize current conditions based on the reported concerns and discoveries made at the time of the inspection and testing period. Information is being provided to aid in the development of corrective actions or remediation that may improve overall conditions identified and/or to improve the overall air quality.

SUPPORTING DOCUMENTATION

AQM

1-800-244-8378 Phone
1-207-873-7022 FAX
227 China Rd., Winslow, ME 04901
SOP 4.3.24

Client: Air Quality Management
Address: 19B Portland Road
Gray ME 04039
Project Number: 10-455A



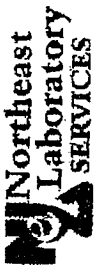
Northeast
Laboratory
SERVICES

Sample Type:	Allergen/D	Percent of Trace Assayed (1):	25	Analyst	Tom Cheetham	Volume Sampled (L):	150	150	Raw CL	CL/m ³	%	Raw CL	CL/m ³	%	Raw CL	CL/m ³	%
Sample Description	A1	Outdoors	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	A16
Lab Number	MJ 20008	MJ 20009	MJ 20010	MJ 20011	MJ 20012												
Sample Condition	Good	Good	Good	Good	Good												
Background Debris rating, 0-5 (2)	2	5	1	2	5												
Total Mold Spores & Fragments	565	15,000	587	590	450	1,200	101	225	590	100	100	17	450	100	45	1,200	101
Asci spores	50	1,300	10	80	53	350	29	3	80	14	12	2	53	12	13	350	29
Aspergillus/Penicillium-like	475	13,000	16	430	28	19	88	19	510	86	88	15	400	88	25	670	56
Basidiospores	40	1,100	24	640	41	9	5	5	130	9	7	3	80	7	3	80	7
Cladosporium			5														
Unidentified Spores			3														
Particulates (3)																	
Skin cell fragments (2-3)	2		5					1				2			5		
Black opaque particles (n.d. - 2)	1		2					1				1			2		
Other fibers (n.d. - 2)	n.d.		3					1				1			3		
Misc. Clear particulates (n.d. - 2)	2		3					1				1			4		

Note: Some values may not appear to be perfectly additive due to rounding.
 (1) Value indicates % of sample trace analyzed. 100% of Sample Trace is always examined for anomalous, spore clusters and Stachybotrys / Myriophthora spores, and any appropriate corrections are made as a result of findings. This process results in a lower MDL for Stachybotrys / Myriophthora spores and a more accurate overall analysis.
 (2) Debris Rating Scale: 0 = No trace visible; 5 = Contiguous debris. Background debris levels greater than 3 indicate poor visibility for the analyst reading the slide, which can result in under-counting of small spores such as those from members of the Aspergillus/Penicillium-like group.
 (3) Particulate size rated on a scale from n.d. (not detected) to 5 (highest abundance). Values in parentheses indicates typical indoor levels.
 No discernable field blank was submitted with these samples. Minimum detection limit varies with amount of air sampled: 30L = 133 cfu/m³; 75L = 53 cfu/m³; 150L = 13 cfu/m³

Created by: Tom Cheetham, PhD, Environmental Microbiology Division
 Reviewed By: Brett Goodrich, Manager, Environmental Microbiology Division

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Client: Air Quality Management
 Address: 19B Portland Road
 Gray ME 04039
 Project Number: 10-469A

Date Sampled: 10/29/10
 Date Received: 11/1/10
 Date Reported: 11/2/10

Sample Type:	Allergenco-D	Percent of Trace Assayed (1):	Analyst	Tom Chestham
Volume Sampled (L):	150			
Sample Description:	A6			
Lab Number:	A040 Elev. Rm.			
Sample Condition:	MJ 20013			
Background Debris rating, 0-5 (2)	Good			
	5			
	Raw Ct	Ct/m ³	%	
Total Mold Spores & Fragments	183	1,700	100	
Ascomycetes	7	180	11	
Aspergillus/Penicillium-like	3	80	5	
Basidiospores	40	1,100	63	
Cladosporium	6	160	10	
Mycelial Fragments	2	53	3	
Unidentified Spores	5	130	8	
Particulates (3)				
Skin cell fragments (2-3)	5			
Black opaque particles (n.d. - 2)	2			
Other fibers (n.d. - 2)	3			
Misc. Clear particulates (n.d. - 2)	4			

Note: Some values may not appear to be perfectly additive due to rounding.

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No discernable field blank was submitted with these samples. Minimum detection limit varies with amount of air sampled; 30L = 133 ct/m³; 79L = 68 ct/m³; 150L = 13 ct/m³

Created by:

[Signature]

Tom Chestham, PhD, Environmental Microbiology Division

Reviewed By:

[Signature]

Brett Gudonich, Manager, Environmental Microbiology Division

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