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September 6, 2006

Signature on File

TO: Mr. James McDermott, Principal
Forest Glen Middle School

FROM: Robert J. Krickovich, Coordinator, LEA
Facilities and Construction Management, Environmental Division

SUBJECT: Indoor Air Quality (IAQ) Assessment
FISH 223 and 516

On August 11, 2006 I conducted an assessment of FISH 223 and 516 at **Forest Glen Middle School**. This evaluation included observations of the flooring system, ceiling tiles, false ceiling plenum, environmental surfaces, interior and exterior walls, and the accessible ventilation equipment. Additionally, environmental parameter measurements were taken to include temperature, relative humidity, and carbon dioxide. The detailed findings, along with the recommended corrective action can be found on the attached IAQ Assessment Worksheets.

The IAQ assessment did identify one or more existing conditions impacting IAQ and has generated appropriate work orders to correct deficiencies in systems and maintenance that could contribute to decreased indoor air quality. At the time of the assessment, these concerns were not an immediate health or safety concern to building occupants. However, due to individual sensitivities and predisposing health factors, it is possible that some building occupants may elicit a health response to agents and / or conditions identified during the evaluation. Therefore, to further improve IAQ, prevent development of future IAQ-related problems, and to reduce the potential for IAQ-related complaints by building occupants, the IAQ Assessment Team recommends appropriate follow up of each item identified and listed in the attached evaluation.

Should any questions arise, or if the current concerns continue after the attached recommendations have been addressed, please feel free to contact me at 754-321-1638.

cc: Dr. Joanne Harrison, Area Superintendent
Jackie Haywood, Area Director
Jeffrey S. Moquin, Director, Risk Management
Paul Bach, Project Manager, Facilities and Construction Management
Ruby Fitzgerald, Broward Teachers Union
Mark Dorsett, Manager 1, Physical Plant Operations Division, Zone 1
Roy Norton, Manager Custodial/Grounds, Physical Plant Operations Division

RK/tc
Enc.

IAQ Assessment

Forest Glen Middle School

Location Number 3051
 Evaluation Requested August 11, 2006
 Evaluation Date August 11, 2006

Time of Day 2:30 pm

Outdoor Conditions Temperature 90.4 Relative Humidity 58.5 Ambient CO2 560

Fish	Temperature	Range	Relative Humidity	Range	CO2	Range	# Occupants
223	72.6	72 - 78	63.4	30% - 60%	530	Max 700 > Ambient	3
Noticeable Odor		Visible water damage / staining?		Visible microbial growth?		Amount of material affected	
Ceiling Type		No		No		None	
Wall Type		No		No		None	
Flooring		No		No		None	

	Clean	Minor Dust / Debris	Needs Cleaning	Corrective Action Required
Ceiling	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> No	
Walls	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> No	
Flooring	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> No	
HVAC Supply Grills	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> No	
HVAC Return Grills	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> No	Clean inside of HVAC return duct
Ceiling at Supply Grills	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> No	
Surfaces in Room	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	

Observations

Findings:

- Visible microbial growth on instrument cases, numerous instruments and sheet music and books.
- Dust build up on environmental surfaces
- Heavy dust build up on inside of HVAC return duct (FISH 222 and 223)
- Humidity level was elevated

Recommendations:

Site Based Maintenance:

- Discard approximately 40 instrument cases that cannot be cleaned. Discard sheet music and books.
- Thoroughly clean instrument cases that can be cleaned with Wexcide disinfectant solution
- Clean environmental surfaces throughout the room
- Instruments will be sent out to vendor for cleaning
- Continue to monitor this location for any signs of microbial growth as well as dust and debris accumulation and clean as appropriate

Physical Plant Operations:

- Provide custodial assistance
- Clean inside of HVAC return duct (FISH 222 and 223)
- Evaluate and repair HVAC system to lower humidity level

Note: EQ00736 - Cleaning assistance

IAQ Assessment

Forest Glen Middle School

Location Number 3051
 Evaluation Requested August 11, 2006
 Evaluation Date August 11, 2006

Time of Day 2:30 pm

Outdoor Conditions Temperature 90.4 Relative Humidity 58.5 Ambient CO2 560

Fish	Temperature	Range	Relative Humidity	Range	CO2	Range	# Occupants
516	73.7	72 - 78	68.5	30% - 60%	575	Max 700 > Ambient	4
Noticeable Odor		Visible water damage / staining?		Visible microbial growth?		Amount of material affected	
Ceiling Type		No		No		None	
Wall Type		No		No		None	
Flooring		No		No		None	

	Clean	Minor Dust / Debris	Needs Cleaning	Corrective Action Required
Ceiling	Yes	No	No	
Walls	Yes	No	No	
Flooring	Yes	No	No	
HVAC Supply Grills	Yes	No	No	
HVAC Return Grills	Yes	No	No	
Ceiling at Supply Grills	No	Yes	Yes	Replace ceiling tiles as appropriate
Surfaces in Room	Yes	No	No	

Observations

Findings:

- Visible microbial growth on wood desk (teacher)
- Ceiling tiles at HVAC supply grills are heavily stained
- Window on front wall does not close properly
- Humidity level was elevated

Recommendations:

Site Based Maintenance:

- Clean wood desk with Wexcide disinfectant solution. If microbial growth returns dispose of desk.
- Continue to monitor this location for any signs of microbial growth as well as dust and debris accumulation and clean as appropriate

Physical Plant Operations:

- Remove and replace ceiling tiles at HVAC supply grills
- Evaluate and repair front wall window
- Evaluate and repair HVAC system to lower humidity level

Note: EQ00736 - Cleaning assistance