

managing risk with responsibility

Jeffrey S. Moquin, Director Risk Management Department

September 28, 2005

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TO: Ms. Bettye Brown, Principal

Margate Middle School

FROM: Robert J. Krickovich, Coordinator, LEA

Facilities and Construction Management, Environmental Division

SUBJECT: Indoor Air Quality (IAQ) Assessment

FISH 202 and 202A

On September 2, 2005 the IAQ Assessment Team conducted an assessment of FISH 202 and 202A at **Margate Middle School**. The evaluation consisted of a walkthrough of the identified areas to assess the current condition of the location with regard to indoor air quality. This assessment included observations of the carpet, floor tile, ceiling tile, interior walls, false ceiling plenum, and accessible ventilation equipment.

Attached are the findings of this assessment along with recommendations for further assessment, remediation, or corrective actions, if needed.

Generally, the IAQ Assessment did not identify any existing conditions significantly impacting IAQ and thereby presenting immediate health and safety concerns 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
Sharon Airaghi, Area Director
Jeffrey S. Moquin, Director, Risk Management
Philip Kaufold, Project Manager II, 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.

			Margate I	Middle School		Evalu	uation Requested	September 2, 200	5
Time of Day	1:00	pm					Evaluation Date	September 2, 200	5
Outdoor Cond	itions	Те	mperature	85.6	Relative Hu	midity 68	8.2 Ambie	nt CO2 496	
Fish	Temperat	ure	Range	Relative Humid	^{ity} Range	CO2	Rar	ige # Occupar	nts
202	78.3	3	72 - 78	87.2	30% - 60%	447	Max 700	> Ambient 4	
Noticeable Oc	dor	No]	Visible wate damage / stain		le microbial rowth?	Amount of ma affected		
Ceiling Type		Drywa	ill	Yes		Yes	On HV	AC duct soffit	
Wall Type		Plaster		Yes		No	\	/arious]
Flooring		Terrazz	0	Yes		No		Various	
	Cle	ean	Minor D / Debr		•	Cor	rective Action Re	equired	
Ceiling	Y	⁄es	No	No					
Walls		No	Yes	Yes		С	lean as appropri	ate	
Flooring		No	Yes	Yes			Clean and sanitiz	ze	
HVAC Supply	Grills [No	Yes	Yes		Clean v	with Wexcide dis	infectant	
HVAC Return	Grills					Tł	hrough door to 2	02F	
Ceiling at Sup Grills	ply Y	⁄es	No	No					
Surfaces in Ro	oom [No	Yes	Yes		С	lean as appropri	ate	

IAQ Assessment

0581

Location Number

Observations

Findings:

- HVAC soffit is water damaged
- Exterior wall of 202F is severely water damaged (20-50% moisture content)
- Temperature and humidity level elevated and building is in negative pressure
- Exterior door weather seals are bad/missing
- Visible microbial growth on soffit near clock
- Dust and debris on walls
- Dust and debris on floor
- Dust and debris on HVAC supply grills
- Dust and debris on environmental surfaces throughout the room

Recommendations:

Site Based Maintenance:

- Clean soffit with Wexcide disinfectant to remove microbial growth
- Clean entire room from floor to ceiling stains on floor, base and walls
- Clean HVAC supply grills with Wexcide disinfectant solution
- Clean environmental surfaces throughout the room
- 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 Division:

- Evaluate and repair or reinsulate HVAC ductwork in soffit to stop condensation
- Evaluate and repair HVAC system to lower temperature and humidity level (building in negative pressure)
- Replace weather strip on exterior doors
- Repaint room as necesary
- Evalaute and repair cause of water damage to exterior wall of FISH 202F and replace wallboard

Margate Middle School								Evaluation Requested September 2, 2005			
Time of Day 1:00 pm Evaluation Date September 2								ember 2, 2005			
Outdoor Condi	tions	Temperature	85.6		Relative Hu	midity	68.2	Ambie	nt CO2	496	
Fish 7	Temperature	Range	Relative H	umidity	Range		CO2	Ran	ge	# Occupants	
202A	80.5	72 - 78	79.8	3	30% - 60%		483	Max 700	> Amb	ient 2	
Noticeable Odor No			Visible water damage / staining		Visible micro growth?		affected				
Ceiling Type	2 x 4 Lay In		Yes		No			2 ceiling tiles		es	
Wall Type	Plaster		Ye	s		No		Various			
Flooring	Terrazzo		No			No		None			
	Clean	Minor I / Deb		leeds eaning			Correct	ive Action Re	quired		
Ceiling	Yes	No		No							
Walls	Yes	No		No							
Flooring	No	Yes	Yes				Clean and sanitize				
HVAC Supply	Grills Yes	No		No							
HVAC Return (Grills						Through door to 202				
Ceiling at Supp Grills	oly Yes	No] [No							
Surfaces in Ro	om Yes	No] [No							
bservations											
Findings: - 2 stained ceilin - Temperature a - Dust and debri - Dust and debri	nd humidity s on walls ar s on floor						y mop ma	ırks) FISH 202	A and 2	202B	
Recommendations:											

IAQ Assessment

0581

Location Number

Site Based Maintenance:

- Replace stained ceiling tiles
- Thoroughly clean floor and walls (stains and streaks on wall base) FISH 202A and 202B
- 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 Division:

- Evaluate and repair HVAC system to lower temperature and humidity level (building in negative pressure)
- Replace weather strip on exterior doors