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January 7, 2005

# TO: Ms. Karla Gary-Orange, Principal Maplewood Elementary School

- FROM: Aston A. Henry, Jr., Supervisor Risk Management Department
- SUBJECT: Indoor Air Quality (IAQ) Assessment FISH 142 and 202

On December 17, 2004 the IAQ Assessment Team conducted an assessment of FISH 142 and 202 at **Maplewood Elementary 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 754-321-3200.

 cc: Dr. Joanne Harrison, Area Superintendent Ulysses Jackson, Area Director Jeffrey S. Moquin, Director, Risk Management Greg Boardman, Project Manager II, Facilities and Construction Management Ruby Fitzgerald, Broward Teachers Union Mark Dorsett, Manager 1, Physical Plant Operations Division, Zone 1

AH/tc

			IAQ Ass	sessment					
Maplewood Elementary School					Evaluation Requested December 15, 2				
Time of Day 2	::55 pm					Evaluation Date	Decen	nber 17, 2004	
Outdoor Conditions	S Tem	perature 64	1.8	Relative Humid	ity 85.7	7 Ambie	nt CO2	475	
Fish Temp	erature F	Range Relat	ive Humidity	Range	CO2	Ran	ige	# Occupants	
142 6	67.2 <b>7</b> 2	2 - 78	62.1	30% - 60%	1277	< 1,000	) PPM	3	
Noticeable Odor	No		sible water age / staining	Visible mi ? growt		Amount of ma affected	terial		
Ceiling Type	2x4 Lay I	n	Νο	No			None		
Wall Type	Tackable	;	Yes	No		W	est Wall		
Flooring	Tile		No	No			None		
	Clean	Minor Dust / Debris	Needs Cleaning		Corre	ctive Action Re	equired		
Ceiling	Yes	No	No						
Walls	No	Yes	Yes		Repair W	est Wall as Ap	propriat	e	
Flooring	Yes	No	No						
HVAC Supply Grills	s Yes	No	No						
HVAC Return Grills	s Yes	No	No						
Ceiling at Supply Grills	Yes	Νο	No						
Surfaces in Room	Yes	No	No						

## Observations

#### Findings:

- No visible signs of microbial growth or water intrusion
- West wall tackable surface lifted off of the wall
- Teacher concerned about air quality issues
- False ceiling plenum was clean and dry at the assessed location
- Room is cold
- High carbon dioxide level detected
- Humidity level is elevated

## **Recommendations:**

## Site Based Maintenance:

- 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:

- Repair Northwest wall as appropriate
- Evaluate and repair as appropriate the fresh air dampers in order to lower the carbon dioxide level
- Repair HVAC as appropriate to lower the humidity level and increase the temperature

IAQ Assessment												
Maplewood Elementary School					Evaluation Requested December 15							
Time of Day	3:30 pm				I	Evaluation Date	Decen	nber 17, 2004				
Outdoor Conditior	ns Terr	perature	64.8	Relative Hum	nidity 85.7	Ambie	nt CO2	475				
Fish Tem	perature	Range Rela	ative Humidity	Range	CO2	Ran	ige	# Occupants				
202	66.4 <b>7</b>	2 - 78	67.5	30% - 60%	745	< 1,000	) PPM	3				
Noticeable Odor	No		Visible water nage / staining		microbial owth?	Amount of ma affected	terial					
Ceiling Type	2x4 Lay	n	Νο	Ν	No		None					
Wall Type	Tackable		No		No		None					
Flooring	Tile		No	N	No		None					
	Clean	Minor Dust / Debris	Needs Cleaning	l	Corre	ctive Action Re	equired					
Ceiling	Yes	No	No									
Walls	Yes	No	No									
Flooring	Yes	No	No									
HVAC Supply Gri	lls Yes	No	No									
HVAC Return Gril	Is No	Yes	Yes		Clean wit	h Wexcide Dis	infectan	ıt				
Ceiling at Supply Grills	Yes	No	No									
Surfaces in Room	Yes	No	No									

# Observations

### Findings:

- No visible signs of microbial growth or water intrusion
- False ceiling plenum was clean and dry at the assessed location
- Minor dust on HVAC return grills
- Room is cold
- Humidity level is elevated

### Recommendations:

#### Site Based Maintenance:

- Clean HVAC return grills with wexcide disinfectant solution

- 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:

- Repair HVAC as appropriate to lower the humidity level and increase the temperature