

managing risk with responsibility

Jeffrey S. Moquin, Director Risk Management Department Telephone: 754-321-3200 Facsimile: 754-321-3290

November 7, 2008

Signature on File

TO: Ms. Sonja Smith Braziel, Principal

Pompano Beach Middle School

FROM: Edward See, Project Manager

Risk Management Department

SUBJECT: Indoor Air Quality (IAQ) Assessment

FISH 117, 119, 143 and 414

For Custodial Supervisor Use Only						
Custodial Issues Addressed						
Custodial Issues Not Addressed						

On October 28, 2008 I conducted an assessment of FISH 117, 119, 143 and 414 at **Pompano Beach 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.

Please ensure that your Head Facilities Serviceperson receives a copy of this correspondence so that the recommendations requiring their attention can be addressed. Within two weeks a representative from the Custodial/Grounds Department will conduct a follow-up visit to ensure that all issues have been appropriately addressed.

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: Sharon Airaghi, Area Superintendent
Jackie Haywood, Area Director
Jeffrey S. Moquin, Director, Risk Management
Robert Bellot, Project Manager, Facilities and Construction Management
Lynn Cavall, Broward Teachers Union
Roy Jarrett, Federation of Public Employees
Mark Dorsett, Manager 1, Physical Plant Operations Division, Zone 1
Roy Norton, Manager Custodial/Grounds, Physical Plant Operations Division
Robert Krickovich, Coordinator, LEA, Facilities and Construction Management

ES/tc Enc.

Pompano Beach Middle School Evaluation Requested October 16, 2008
Time of Day Evaluation Date October 28, 2008
Outdoor Conditions Temperature 63.4 Relative Humidity 51.8 Ambient CO2 408
Fish Temperature Range Relative Humidity Range CO2 Range # Occupants 117 71 72 - 78 40.9 30% - 60% 802 Max 700 > Ambient 2 Noticeable Odor No Visible water Visible microbial Amount of material
damage / staining? growth? affected
Ceiling Type 2 x 4 No No No None
Wall Type Drywall/Plaster No No None
Flooring 12 x 12 Vinyl No No None
Clean Minor Dust Needs Corrective Action Required / Debris Cleaning
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 Yes No No Srills
Surfaces in Room Yes No No
bservations
Findings: - Temperature was low at the time of assessment
Recommendations:
Site Based Maintenance: - Adjust thermostat to increase temperature - Continue to monitor this location for any signs of microbial growth as well as dust and debris accumulation and clean as appropriate

0021

Location Number

	Pompano Beach	Middle School		Evaluation	Requested	October 16, 2008
Time of Day				Eval	uation Date	October 28, 2008
Outdoor Conditions	Temperature	63.4	Relative Humidity	51.8	Ambient (CO2 408
Fish Tempe 119 70	Range 72 - 78	Relative Humidity	Range 30% - 60%	CO2 900	Range Max 700 > A	
Noticeable Odor	No	Visible water damage / staining	Visible micro growth?	bial Ar	mount of materia	al
Ceiling Type	2 x 4	No	No		No	ne
Wall Type	Prywall/Plaster	No	No		No	ne
Flooring	12 x 12 Vinyl	No	No		No	one
(Clean Minor I			Corrective	e Action Requ	ired
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	Yes No	No				
Surfaces in Room	Yes No	No				
) Dbservations						
Findings: - Temperature was low Recommendations:	v at the time of asse	ssment				
Site Based Maintenal - Adjust thermostat to - Continue to monitor tappropriate	increase temperatur	e signs of microbial g	rowth as well as dus	t and debris	s accumulation a	and clean as

0021

Location Number

	Pompano Beach	Middle School		Evaluation	Requested October 1	6, 2008
Time of Day				Eva	luation Date October 2	8, 2008
Outdoor Conditions	Temperature	63.4	Relative Humidity	51.8	Ambient CO2	108
l	Range 70 72 - 78	Relative Humidity	Range 30% - 60%	CO2 1011	Range # 0 Max 700 > Ambient	occupants
Noticeable Odor [No	Visible water damage / staining	Visible micro g? growth?			
Ceiling Type	2 x 4	No	No		None	
Wall Type	Drywall/Plaster	No	No		None	
Flooring	12 x 12 Vinyl	No	No		None	
	Clean Minor D		1	Correctiv	ve Action Required	
Ceiling	Yes 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	Yes No	No				
Surfaces in Room	Yes No	No				
) Dbservations						
	w at the time of asse	ssment				
Recommendations:						
Site Based Maintenance: - Adjust thermostat to increase temperature - Continue to monitor this location for any signs of microbial growth as well as dust and debris accumulation and clean as appropriate						

0021

Location Number

	Pompar	o Beach Midd	e School		Evaluat	ion Requested	October 16, 2008
Time of Day					I	Evaluation Date	October 28, 2008
Outdoor Condit	ions Tem	perature 6	63.4	Relative Humidi	ty 51.8	3 Ambier	nt CO2 408
Fish T		Range Rela	tive Humidity 44.1	Range 30% - 60%	CO2 1202	Rang Max 700 :	ge # Occupants > Ambient 20
Noticeable Odd	or No		/isible water nage / staining	Visible mid g? growth		Amount of mate	erial
Ceiling Type	2 x 4		Yes	No		Rusted	l ceiling grid
Wall Type	Drywall/Plas	ster	No	No			None
Flooring	12 x 12 Vin	yl	No	No]		None
	Clean	Minor Dust / Debris	Needs Cleaning		Corre	ctive Action Re	quired
Ceiling	No	Yes	Yes		Remove a	and replace ceil	ing tiles
Walls	Yes	No	No				
Flooring	Yes	No	No				
HVAC Supply 0	Grills Yes	No	No				
HVAC Return G	Grills Yes	No	No				
Ceiling at Supp Grills	oly Yes	No	No				
Surfaces in Roo	om Yes	No	No				
bservations							
Findings: - One (1) warped	I ceiling tile and	one ceiling tile	missing at W	est wall requiring c	ut		

0021

Location Number

- Science drains traps appear to be dry
- CO2 level slightly elevated
- Rusted ceiling grid

Recommendations:

Site Based Maintenance:

- Remove and replace warped ceiling tile
- Ensure that water is run down drains at least once a week
- 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:

- Replace missing ceiling tile at West wall requiring cut
- Evaluate HVAC system for proper operation and repair as appropriate to lower CO2 level
- Evaluate ceiling grid and repair/replace as appropriate