

managing risk with responsibility

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

September 10,	2007 Signature on File	
TO:	Dr. Cheryl Cendan, Principal Millennium Middle School	
FROM:	Edward See, Project Manager Risk Management Department	
SUBJECT:	Indoor Air Quality (IAQ) Assessment FISH 402, 442 and 444	

<u>Fo</u>	r Custodial Supervisor Use Only
	Custodial Issues Addressed
	Custodial Issues Not Addressed

On September 5, 2007 I conducted an assessment of FISH 402, 442 and 444 at **Millennium 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.

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.

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: Dr. Leontine Butler, Area Superintendent Willie Dudley, Area Director Jeffrey S. Moquin, Director, Risk Management Robert Goode, Project Manager, Facilities and Construction Management Ruby Fitzgerald, 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.

			IAQ As	sessment	Location N	umber	4772	
	М	illennium Middle	e School		Evaluation I	Requested	August	29, 2007
Time of Day	12:10 pm				Evalu	uation Date	Septemb	er 5, 2007
Outdoor Condi	tions Tem	perature 9	1.6	Relative Humidity	49.4	Ambie	nt CO2	456
Fish 7	Femperature	Range Relat	tive Humidity	Range	CO2	Ran	ige #	Occupants
402	72.9 7	2 - 78	42.6	30% - 60%	907	Max 700	> Ambient	28
Noticeable Od	or No		ïsible water age / staining	Visible micro growth?		nount of ma affected	terial	
Ceiling Type	2 x 4 Lay	In	No	No			None	
Wall Type	Drywall		No	No			None	
Flooring	Vinyl		No	No			None	
	Clean	Minor Dust / Debris	Needs Cleaning		Corrective	Action Re	equired	
Ceiling	Yes	Νο	No					
Walls	Yes	No	No					
Flooring	Yes	No	No					
HVAC Supply	Grills Yes	No	No					
HVAC Return (Grills Yes	Νο	No					
Ceiling at Sup Grills	ply Yes	Νο	No					
Surfaces in Ro	oom Yes	No	No					

Observations

Findings:

Environmental parameters were acceptable
No signs of visible microbial growth or water intrusion

-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

			IAQ As	sessment	Locati	on Number	4772	
	N	lillennium Middl	e School		Evaluat	tion Requested	August	29, 2007
Time of Day	12:10 pm				I	Evaluation Date	Septemb	oer 5, 2007
Outdoor Cond	itions Terr	perature 9	1.6	Relative Humid	ity 49.4	Ambie	nt CO2	456
Fish	Temperature	Range Rela	tive Humidity	Range	CO2	Ran	ige #	Occupants
442	75.7 7	2 - 78	49.8	30% - 60%	994	Max 700	> Ambient	t 27
Noticeable Oc	dor No		'isible water age / staining	Visible m grow		Amount of mat affected	terial	
Ceiling Type	2 x 4 Lay	In	No	No			None	
Wall Type	Drywall		No	No			None	
Flooring	Vinyl		No	No			None	
	Clean	Minor Dust / Debris	Needs Cleaning		Corre	ctive Action Re	equired	
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 Sup Grills	ply Yes	No	No					
Surfaces in Ro	oom Yes	No	No					

Observations

Findings:

- Environmental parameters were acceptable

- No signs of visible microbial growth or water intrusion

- Clutter throughout room. Stuffed animals on window sills, bookshelf and cabinet.

-Recommendations:

Site Based Maintenance:

- Advise occupant to reduce clutter to assist Facilities Serviceperson with their cleaning efforts.

- Stuffed animals are a source of dust and allergens. Thoroughly clean stuffed animals regularly or remove from the room.

- Continue to monitor this location for any signs of microbial growth as well as dust and debris accumulation and clean as appropriate

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Outdoor Condi	itions Tem	perature 9	1.6	Relative Humidity	49.4	Ambie	ent CO2	456
Fish	Temperature F	Range Relat	ive Humidity	Range	CO2	Ran	nge #	Occupants
444	75.6 7 2	2 - 78	47.5	30% - 60%	1004] Max 700	> Ambient	20
Noticeable Od	lor No		isible water age / staining	Visible micro growth?		nount of ma affected	terial	
Ceiling Type	2 x 4 Lay	In	No	No			None	
Wall Type	Drywall		No	No			None	
Flooring	Vinyl		No	No			None	
	Clean	Minor Dust / Debris	Needs Cleaning		Corrective	e Action Re	equired	
Ceiling	Yes	Νο	Νο					
Walls	Yes	Νο	No					
Flooring	Yes	No	No					
HVAC Supply	Grills Yes	Νο	No					
HVAC Return	Grills Yes	No	No					
Ceiling at Sup Grills	ply Yes	Νο	No					
Surfaces in Ro	oom Yes	No	No					

Observations

Findings:

- Environmental parameters were acceptable

- No signs of visible microbial growth or water intrusion

- Dust and debris on A/C filter

-Recommendations:

Site Based Maintenance:

- Remove and replace A/C filter

- Continue to monitor this location for any signs of microbial growth as well as dust and debris accumulation and clean as appropriate