

managing risk with responsibility

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Jeffrey S. Moquin, Director Risk Management Department

FISH 208, 209, 211 and 213

May 14, 2008	Signature on File	For Custodial Supervisor Use Only
TO:	Ms. Susan Sasse, Principal Gator Run Elementary School	Custodial Issues Addressed Custodial Issues Not Addressed
FROM:	Edward See, Project Manager Risk Management Department	
SUBJECT:	Indoor Air Quality (IAQ) Assessment	

On May 8, 2008 I conducted an assessment of FISH 208, 209, 211 and 214 at **Gator Run Elementary 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: Dr. Verda Farrow, Area Superintendent
 Jan Beal, Area Director
 Jeffrey S. Moquin, Director, Risk Management
 Gerry Usallan, Project Manager, Facilities and Construction Management
 Ralph Eckhardt, Broward Teachers Union
 Roy Jarrett, National Federation of Public and Private 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.

	Gator	r Run Elementa	ry School		Evaluati	on Requested	April 22, 2008
Time of Day	12:40 pm]			E	valuation Date	May 8, 2008
Outdoor Condi	tions Ter	nperature	88	Relative Humid	ity 47.5	Ambie	nt CO2 433
Fish 208 Noticeable Od Ceiling Type Wall Type Flooring	76.7	dan	dive Humidity 69.8 Visible water hage / staining? No No	Range 30% - 60% Visible mi growt No		Amount of mat affected	> Ambient 21
		,.	NO	NO			None
	Clean	Minor Dust / Debris	Needs Cleaning		Correc	tive 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 No	Yes	Yes		Clea	an as appropri	ate
Dbservations							
Et a Process	·	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	

IAQ Assessment

3642

Location Number

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- A/C filters in FISH 220 (AHU) not taped
- Dust build up on environmental surfaces due to clutter
- Humidity was elevated

Recommendations:

Site Based Maintenance:

- Tape A/C filters in FISH 220
- Thoroughly clean environmental surfaces throughout the room. Encourage occupant to reduce clutter to assist with 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:

Evaluate HVAC for proper operation and repair as appropriate to lower temperature and humidity (EQ01161)

		Gate	or Run Elem	entary	School		Evaluat	tion Requested	April 2	22, 2008
Time of Day	12:	:40 pm						Evaluation Date	May	8, 2008
Outdoor Cond	itions	Te	emperature	8	88	Relative Humidit	y 47.5	5 Ambier	nt CO2	433
Fish	Tempe	erature	Range	Relati	ive Humidity	Range	CO2	Rang	ge #	Occupants
209	7	8.5	72 - 78		61.6	30% - 60%	775	Max 700 :	> Ambien	t 18
Noticeable Oc	dor [No			sible water age / staining	Visible mic g? growth		Amount of mate affected	erial	
Ceiling Type		2 x 4 La	ıy In		No	No]		None	
Wall Type		Drywall/P	laster		Yes	No]	South wall	@ 3 Squar	e Feet
Flooring		12 x 12 \	/inyl		No	No]		None	
		Clean	Minor D / Debr		Needs Cleaning	l	Corre	ctive Action Re	quired	
Ceiling		Yes	No]	No					
Walls		No	Yes]	Yes		Repair/ı	replace as appro	opriate	
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 Re	oom	No	Yes		Yes		Cle	an as appropria	ite	

IAQ Assessment

3642

Location Number

Observations

Findings:

- Visible water damage/staining on South wall under windows (@3 square feet)
- A/C filters in FISH 204 (AHU) not taped
- Dust build up on environmental surfaces
- Temperature and humidity were slightly elevated

Recommendations:

Site Based Maintenance:

- Tape A/C filters in FISH 204
- Thoroughly 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:

- Evaluate HVAC for proper operation and repair as appropriate to lower temperature and humidity (EQ01161)
- Evaluate cause of water damage/staining on South wall under windows and repair as appropriate. Repair/replace wall material as necessary (EQ01162).

			IAQ As	sessment	Location	on Number	3642
	Ga	tor Run Elem	entary School		Evaluat	ion Requested	April 22, 2008
Time of Day	12:40 pm				ı	Evaluation Date	May 8, 2008
Outdoor Condit	tions T	emperature	88	Relative Hum	idity 47.5	5 Ambie	nt CO2 433
Fish T	emperature	Range	Relative Humidity	/ Range	CO2	Ran	ge # Occupants
211	77	72 - 78	70	30% - 60%	784	Max 700	> Ambient 19
Noticeable Ode	or No		Visible water damage / stainin		microbial wth?	Amount of ma	terial
Ceiling Type	2 x 4 L	ay In	No	N	0		None
Wall Type	Drywall/l	Plaster	Yes	N	0	So	uth wall
Flooring	12 x 12	Vinyl	No	N	0		None
Ceiling Walls	Clean Yes No	Minor D / Debri	is Cleaning No			ctive Action Re	
Flooring	Yes	No	No				
HVAC Supply (Grills Yes	No	No				
HVAC Return G	Grills Yes	No	No				
Ceiling at Supp Grills	oly Yes	No	No				
Surfaces in Ro	om Yes	No	No				
Observations							
Findings: - Visible water da		ng on South w	<i>r</i> all				

3642

Humidity was 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:

- Evaluate HVAC for proper operation and repair as appropriate to lower humidity (EQ01161)
- Evaluate cause of water damage/staining on South wall and repair as appropriate. Repair/replace wall material as necessary (EQ01162).

	Gato	or Run Elementar	y School		Evaluati	ion Requested	April 22	2, 2008
Time of Day	12:40 pm				E	Evaluation Date	May 8	, 2008
Outdoor Cond	itions Te	emperature	88 F	Relative Humidi	ity 47.5	Ambie	nt CO2	433
Fish	Temperature	Range Rela	tive Humidity	Range	CO2	Ran	ge # (Occupants
213	76.5	72 - 78	67.8	30% - 60%	760	Max 700	> Ambient	2
Noticeable Oc	dor No	_	/isible water age / staining?	Visible mid growt		Amount of mat affected	erial	
Ceiling Type	2 x 4 La	y In	No	No			None	
Wall Type	Drywall/P	laster	Yes	No		South wall	@ 2 square	feet
Flooring	12 x 12 \	/inyl	No	No			None	
	Clean	Minor Dust / Debris	Needs Cleaning		Correc	ctive Action Re	quired	
Ceiling	Yes	No	No					
Walls	No	Yes	Yes		Repair/r	eplace as appr	opriate	
Flooring	Yes	No	No					
HVAC Supply	Grills Yes	No	No					
HVAC Return	Grills Yes	No	No					
Ceiling at Sup Grills	oply Yes	No	No					
Surfaces in Ro	oom Yes	No	No					
hearyations								

IAQ Assessment

3642

Location Number

Observations

Findings:

- Visible water damage/staining on South wall
- Humidity was elevated
- Potted plant on teachers desk

Recommendations:

Site Based Maintenance:

- Remove potted plant from room. Soil is a source of microbial growth.
- 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:

- Evaluate HVAC for proper operation and repair as appropriate to lower humidity (EQ01161)
- Evaluate cause of water damage/staining on South wall and repair as appropriate. Repair/replace wall material as necessary (EQ01162).