

Aston A. Henry, Supervisor Risk Management Department

January 22, 2010

TO:

FROM:

SUBJECT:

managing risk with responsibility

Telephone:754 321-1900Fax:754 321-1917

	ial Issues Addressed
Custod	ial Issues Not Addressed

On January 20, 2010 I conducted an assessment of FISH 136, 137, 137A and 138 at **Parkway 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.

Signature on File

Mr. Brad Mattair, Principal Parkway Middle School

Edward See, Project Manager Risk Management Department

FISH 136, 137, 137A and 138

Indoor Air Quality (IAQ) Assessment

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. In an attempt to separate IAQ issues from general maintenance items, the attached assessment may contain direction for site based staff to generate a work order through COMPASS. 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 754-321-1900.

cc:	Dr. Leontine Butler, Area Superintendent						
	Michaelle Pope, Area Director						
	Jeffrey S. Moquin, Executive Director, Support Operations						
	Aston Henry, Supervisor, Risk Management						
	Sheldon Dash, Project Manager, Facilities and Construction Management						
	Jerrod Neal, 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 Number	0701
		Parkway Middle	e School		Evaluation Requested	January 19, 2010
Time of Day	2:50 pm]			Evaluation Date	January 20, 2010
Outdoor Cond	itions Ter	mperature	78.1	Relative Humidity	51.8 Ambie	nt CO2 394
Fish	Temperature	Range Relat	tive Humidity	Range	CO2 Ran	nge # Occupants
136	75.5	72 - 78	53.6	30% - 60%	424 Max 700	> Ambient 2
Noticeable Oc	lor No		/isible water age / staining	Visible micro growth?	bial Amount o material affec	
Ceiling Type	2 x 4 Lay	In	No	No		None
Wall Type	Drywall/Pla	aster	No	Yes	@10	Square Feet
Flooring	12 x 12 V	inyl	No	No		None
	Clean	Minor Dust / Debris	Needs Cleaning		Corrective Action Re	equired
Ceiling	Yes	No	No			
Walls	No	Yes	Yes		Evaluate and Rep	air
Flooring	Yes	Νο	No			
HVAC Supply	Grills No	Yes	Yes	CI	ean with Wexcide dis	infectant
HVAC Return	Grills No	Yes	Yes	CI	ean with Wexcide dis	infectant
Ceiling at Sup Grills	oply No	Yes	Yes		Clean as appropri	ate
Surfaces in Ro	oom No	Yes	Yes		Clean as appropri	ate

Findings:

- Room not occupied
- Dust and debris on A/C filters (inside room and outside at intake)
- Chalkboard on East wall buckling but no signs of water intrusion
- Elevated moisture content in North wall and paint peeling under windows (@2 square feet)
- Visible microbial growth on West wall (@10 square feet)
- Multiple bowed ceiling tiles
- Dust build up on environmental surfaces
- Dust and debris on HVAC supply and return grills with minor microbial growth on return grills. Dust build up on ceiling at supply grills.

Site Based Maintenance:

- Remove and replace A/C filters and monitor and change regularly
- Wipe down West wall with Wexcide disinfectant solution and monitor
- Remove and replace bowed ceiling tiles
- Wipe down HVAC supply and return grills with Wexcide disinfectant solution. Clean ceiling at supply grills as necessary.
- 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 elevated moisture content in North wall and repair as appropriate. Repair/replace wall material as necessary.

			IAQ As	sessment	Location Number	0701
		Parkway Middl	e School		Evaluation Requested	January 19, 2010
Time of Day	2:50 pm]			Evaluation Date	January 20, 2010
Outdoor Cond	itions Ter	mperature	78.1	Relative Humidity	51.8 Ambie	ent CO2 394
Fish	Temperature	Range Rela	tive Humidity	Range	CO2 Rar	nge # Occupants
137	72	72 - 78	60.3	30% - 60%	506 Max 700	> Ambient 2
Noticeable Oc	lor No		/isible water hage / staining	Visible micro growth?	bial Amount o material affec	-
Ceiling Type	2 x 4 Lay	' In	No	No		None
Wall Type	Drywall/Pla	aster	Yes	No	No	orth Wall
Flooring	12 x 12 V	inyl	No	No		None
	Clean	Minor Dust / Debris	Needs Cleaning		Corrective Action Re	equired
Ceiling	Yes	No	No			
Walls	No	Yes	Yes		Evaluate and Rep	air
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 R	oom No	Yes	Yes		Clean as appropri	ate

Findings:

- Dust and debris on A/C filters (inside room and outside at intake)
- Paint peeling on North wall @3 square feet
- Multiple bowed ceiling tiles
- Dust build up on environmental surfaces. Personal items in room.
- Humidity level was slightly elevated at the time of the assessment

Site Based Maintenance:

- Remove and replace A/C filters and monitor and change regularly
- Remove and replace bowed ceiling tiles
- Thoroughly clean environmental surfaces. Encourage occupant to remove personal items to assist with cleaning efforts.

- 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 cause of peeling paint on North wall and repair as appropriate. Repair/replace wall material as necessary.

- Evaluate HVAC system for proper operation and repair as appropriate to lower humidity level

			IAQ Ass	sessment	Location Number	0701
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Outdoor Condi	itions Ter	mperature	78.1	Relative Humidity	51.8 Ambie	nt CO2 394
Fish	Temperature	Range Rela	tive Humidity	Range	CO2 Ran	ige # Occupants
137A	72.7	72 - 78	59.9	30% - 60%	535 Max 700	> Ambient 2
Noticeable Od	lor Yes		/isible water age / staining	Visible microl ? growth?	bial Amount o material affec	
Ceiling Type	2 x 4 Lay	In	Yes	No	1 C	eiling Tile
Wall Type	Drywall/Pla	aster	Yes	No	No	orth Wall
Flooring	12 x 12 Vi	inyl	No	No		None
	Clean	Minor Dust / Debris	Needs Cleaning		Corrective Action Re	equired
Ceiling	No	Yes	Yes	R	emove and replace ce	eiling tile
Walls	No	Yes	Yes		Evaluate and Rep	air
Flooring	No	Yes	Yes		Clean and Sanitiz	ze
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			

Findings:

- Odor in room from air freshener Non-approved chemical
- Dust and debris on A/C filters (inside room and outside at intake)
- Paint peeling on North wall @3 square feet
- 1 stained ceiling tile
- Water stain in light fixture

Site Based Maintenance:

- Remove non-approved chemical (air freshener) from room
- Remove and replace A/C filters and monitor and change regularly

- Remove and replace stained ceiling tile. If stain returns contact COMPASS to generate a work order for Physical Plant Operations to evaluate for cause.

- Wipe down light fixture to remove water stain

- 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 cause of peeling paint on North wall and repair as appropriate. Repair/replace wall material as necessary.

			IAQ As	sessment	Location Number	0701
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Time of Day	2:50 pm]			Evaluation Date	January 20, 2010
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Fish	Temperature	Range Rela	tive Humidity	Range	CO2 Ran	ige # Occupants
138	74.7	72 - 78	60.3	30% - 60%	521 Max 700	> Ambient 2
Noticeable Oc	lor No		/isible water hage / staining	Visible micro growth?	bial Amount o material affec	-
Ceiling Type	2 x 4 Lay	In	No	No		None
Wall Type	Drywall/Pla	aster	No	No		None
Flooring	12 x 12 V	inyl	No	No		None
	Clean	Minor Dust / Debris	Needs Cleaning		Corrective Action Re	equired
Ceiling	Yes	No	No			
Walls	Yes	No	No			
Flooring	Yes	No	No			
HVAC Supply	Grills No	Yes	Yes	CI	ean with Wexcide dis	infectant
HVAC Return	Grills No	Yes	Yes	CI	ean with Wexcide dis	infectant
Ceiling at Sup Grills	oply Yes	No	No			
Surfaces in Ro	oom No	Yes	Yes		Clean as appropri	ate

Findings:

- Dust and debris on A/C filters (inside room and outside at intake)

- Non-approved chemical in room (air freshener)

- Dust build up on environmental surfaces

- Dust and debris on HVAC supply and return grills with minor microbial growth on return grills. Dust build up on ceiling at supply grills.

- Humidity level was slightly elevated at the time of the assessment

Site Based Maintenance:

- Remove and replace A/C filters and monitor and change regularly

- Remove non-approved chemical (air freshener) from room

- Remove and replace bowed ceiling tiles

- Wipe down HVAC supply and return grills with Wexcide disinfectant solution

- 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 system for proper operation and repair as appropriate to lower humidity level