

managing risk with responsibility

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Jeffrey S. Moquin, Director Risk Management Department

FISH 426 and 428

August 11, 2	008 Signature on File	For Custodial Supervisor Use Only
TO:	Ms. Rosemary Chambers, Principal Hallandale High School	Custodial Issues Addressed Custodial Issues Not Addressed
FROM:	Edward See, Project Manager Risk Management Department	
SUBJECT:	Indoor Air Quality (IAQ) Assessment	

On August 1, 2008 I conducted an assessment of FISH 426 and 428 at **Hallandale High 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. Joel Herbst, Area Superintendent
Dr. Gina Eyerman, Area Director
Jeffrey S. Moquin, Director, Risk Management
Herbert Lee, Project Manager, Facilities and Construction Management
Jamie Daniels, 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.

	Н	allandale High	School		⊏valuati	on Requested	July 24, 2008	
Time of Day	1:15 pm				E	Evaluation Date	August 1, 2008	
Outdoor Condi	tions Tempe	erature 88	3.7 R	Relative Humidity	54.6	Ambie	nt CO2 421	
Fish	Temperature Ra	nge Relati	ive Humidity	Range	CO2	Ran	ge # Occupants	
426	74.4 72	- 78	67.9	30% - 60%	512	Max 700	> Ambient 5	
Noticeable Odor Yes			Visible water Visible micro damage / staining? growth?		bial	Amount of material affected		
Ceiling Type	2 x 4 Lay In		No	No			None	
Wall Type	Drywall/Soundp	roof	No				None	
Flooring	Carpet		No	No		None		
		Minor Dust / Debris	Needs Cleaning		Correc	tive Action Re	quired	
Ceiling	Yes	No	No					
Walls	Yes	No	No					
Flooring	No	Yes	Yes		Cle	ean and sanitiz	e	
HVAC Supply	Grills Yes	No	No					
HVAC Return (Grills					N/A		
Ceiling at Sup Grills	ply Yes	No	No					
Surfaces in Ro	oom Yes	No	No					
Observations								

IAQ Assessment

0403

Location Number

Findings:

- Musty odor in room
- Humidity level was elevated at the time of the assessment
- Door was propped open at the time of the assessment
- No HVAC return installed
- Window pane missing (work order generated by site)
- Carpet is stained and worn. HFSP indicated that replacement is scheduled.

Recommendations:

Site Based Maintenance:

- Ensure that all doors to the exterior remain closed. Open doors or windows allow humid untreated air into occupied environment.
- Follow up with Physical Plant Operations regarding the replacement of the window pane and carpeting
- 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 level
- Evaluate for possible installation of HVAC return

		Hallandal	e High School		Evaluati	on Requested	July 24, 2	2008
Time of Day	1:15 pm				E	valuation Date	August 1,	2008
Outdoor Cond	litions	Temperature	88.7	Relative Humidi	ty 54.6	Ambie	nt CO2 42	21
Fish	Temperature	Range	Relative Humidity	' Range	CO2	Rar	ige # Oc	cupants
428	75.6	72 - 78	65.1	30% - 60%	513	Max 700	> Ambient	3
Noticeable O	dor Ye	S	Visible water damage / staining	Visible mid g? growtl		Amount of ma affected	terial	
Ceiling Type	2 x 4	Lay In	Yes	Yes] [3 c	eiling tiles	
Wall Type	Drywa	II/Plaster	No	No] [None	
Flooring	Са	rpet	No	No] [None	
	Clear	Minor D		I	Correc	tive Action Re	equired	
Ceiling	No	Yes	Yes		Remove a	nd replace ce	iling tiles	
Walls	Yes	No	No					
Flooring	Yes	No	No					
HVAC Supply	Grills Yes	No	No					
HVAC Return	Grills No	Yes	Yes		Clean with	n Wexcide dis	infectant	
Ceiling at Sup Grills	oply Yes	No	No					
Surfaces in R	oom No	Yes	Yes		Clea	n as appropri	ate	

IAQ Assessment

0403

Location Number

Observations

Findings:

- Musty odor in room
- 3 stained ceiling tiles with visible microbial growth
- Humidity level was elevated at the time of the assessment
- Dust and debris on HVAC return grills
- Dust build up on environmental surfaces
- Bowed ceiling tiles in FISH 426A, 427A, 428A and 003B

Recommendations:

Site Based Maintenance:

- Remove and replace stained ceiling tiles
- Clean HVAC return grills with Wexcide disinfectant solution
- Thoroughly clean environmental surfaces throughout the room
- Remove and replace bowed ceiling tiles in rooms indicated above
- 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 level