

managing risk with responsibility

Telephone: 754-321-3200 Facsimile: 754-321-3290

January 14, 200	9 Signature on File
TO:	Ms. Susan Leon-Leigh, Principal Coral Springs High School
FROM:	Edward See, Project Manager Risk Management Department
SUBJECT:	Indoor Air Quality (IAQ) Assessment FISH 429 and 430

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

On December 11, 2008 I conducted an assessment of FISH 429 and 430 at **Coral Springs 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: Sharon Airaghi, Area Superintendent Jackie Haywood, Area Director Jeffrey S. Moquin, Executive Director, Support Operations Philip Kaufold, Project Manager, Facilities and Construction Management Gary Itzkowitz, 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.

			IAQ Ass	sessment	Locat	ion Number	1151	
	Co	oral Springs High	n School		Evalua	ation Requested	Novembe	er 25, 2008
Time of Day						Evaluation Date	Decembe	er 11, 2008
Outdoor Condi	tions Ten	perature 8	0.3	Relative Hum	idity 75.	1 Ambie	nt CO2	336
Fish	Temperature	Range Relat	tive Humidity	Range	CO2	Ran	ige #	Occupants
429	72.1 7	2 - 78	65.7	30% - 60%	709	Max 700	> Ambient	2
Noticeable Od	or No	-	isible water age / staining		microbial wth?	Amount of mat affected	terial	
Ceiling Type	2 x 4		Yes	N	lo	2 ceiling	tiles & light	grid
Wall Type	Drywall/Pla	ster	No	N	10		None	
Flooring	Carpet		Yes	N	lo		Various	
	Clean	Minor Dust / Debris	Needs Cleaning		Corre	ective Action Re	equired	
Ceiling	No	Yes	Yes	R	Remove and	replace stained	d ceiling til	es
Walls	Yes	No	No					
Flooring	No	Yes	Yes		Evaluate	e carpet for repl	acement	
HVAC Supply	Grills Yes	No	No					
HVAC Return (Grills Yes	Νο	No					
Ceiling at Sup Grills	ply Yes	No	No					
Surfaces in Ro	oom Yes	No	No					

Observations

Findings:

- Recent water leak from pipe

- 2 stained ceiling tiles and stained light grid

- Humidity level was elevated

- Visible damage to carpet - @15 square feet

Recommendations:

Site Based Maintenance:

- Remove and replace stained ceiling tiles

- 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 stained ceiling tiles and light grid and repair as appropriate. Repair/replace light grid.
- Evaluate HVAC for proper operation and repair as appropriate to lower humidity level
- Evaluate carpet for replacement

			IAQ As	sessment	Location Nu	umber	1151	
	C	oral Springs Hi	gh School		Evaluation R	equested	Novembe	r 25, 2008
Time of Day]			Evalu	ation Date	Decembe	r 11, 2008
Outdoor Cond	itions Ter	nperature	80.3	Relative Humidity	75.1	Ambie	nt CO2	336
Fish	Temperature	Range Rel	ative Humidity	Range	CO2	Ran	ge #	Occupants
430	72.1	72 - 78	68	30% - 60%	745	Max 700	> Ambient	2
Noticeable Oc	dor No] da	Visible water mage / staining	Visible micro ? growth?		ount of mat affected	terial	
Ceiling Type	2 x 4		Yes	No		2 Ce	eiling tiles	
Wall Type	Wall Type Drywall/Plaster		Yes			10 square feet		
Flooring	Carpet		Yes	No		N	Various	
	Clean	Minor Dust / Debris	Needs Cleaning		Corrective	Action Re	equired	
Ceiling	No	Yes	Yes	Remo	ove and repla	ce stained	d ceiling tile	es
Walls	No	Yes	Yes	C	lean with We	excide disi	infectant	
Flooring	No	Yes	Yes	E	valuate carp	et for repla	acement	
HVAC Supply	Grills Yes	No	No					
HVAC Return	Grills					N/A		
Ceiling at Sup Grills	oply Yes	No	No					
Surfaces in R	oom Yes	No	No					

Observations

Findings:

- Recent water leak from pipe
- Rusted pipe in false ceiling plenum
- 2 stained ceiling tiles
- Staining on wall @10 square feet
- Humidity level was elevated
- Visible damage to carpet

- HFSP advised that old dark rooms (803A and B - second floor) are directly above and have eye wash stations, sinks and floor drains. Rooms are sometimes used by students resulting in standing water on the floor.

- Gaps in A/C filters in AHU on second floor

Recommendations:

Site Based Maintenance:

- Remove and replace stained ceiling tiles
- Wipe down wall to remove staining
- Ensure that A/C filters are taped together with no gaps

- 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 stained ceiling tiles and repair as appropriate
- Evaluate pipes in false ceiling plenum and repair as appropriate
- Evaluate HVAC for proper operation and repair as appropriate to lower humidity level
- Evaluate carpet for replacement