

# managing risk with responsibility

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Signature on File

TO: Dr. David Basile, Principal South Plantation High School

FROM: Edward See, Project Manager Risk Management Department

SUBJECT: Indoor Air Quality (IAQ) Assessment

Auditorium/Stage

For Custodial Supervisor Use Only

Custodial Issues Addressed

Custodial Issues Not Addressed

On August 28, 2008 I conducted an assessment of the Auditorium/Stage at **South Plantation 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. Verda Farrow, Area Superintendent
Fran Bolden, Area Director
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Roy Norton, Manager Custodial/Grounds, Physical Plant Operations Division
Robert Krickovich, Coordinator, LEA, Facilities and Construction Management

	S	outh Plantatio	n High School		Evaluation Requested Augus			20, 2008
Time of Day	3:30 pm				E	Evaluation Date	August	28, 2008
Outdoor Conditions Temperature 85.1 Relative Humidity 54.3 Ambient CO2 403							403	
Fish	Temperature	Range	Relative Humidity	/ Range	CO2	Ran	ige #	Occupants
Stage Area	74.9	72 - 78	58.3	30% - 60%	506	Max 700	> Ambient	47
Noticeable Odor No			Visible water Visible microbial damage / staining? growth?			Amount of material affected		
Ceiling Type	Acoustic		Yes		es	2 ceiling tiles		
Wall Type	Drywall/Plaster		No		lo	None		
Flooring	Carpet/C	oncrete	No	N	lo	None		
	Clean	Minor D		3	Correc	ctive Action Re	equired	
Ceiling	No	No Yes			Remove a	and replace ceiling tiles		
Walls	Yes	No	No					
Flooring	Yes	No	No					
HVAC Supply Grills No Ye		Yes	Yes		20 foot	20 foot ceiling - PPO Clean		
HVAC Return	Grills Yes	No	No					
Ceiling at Sup Grills	oply No	Yes	Yes		20 foot	ceiling - PPO	Clean	
Surfaces in R	oom Yes	No	No					

IAQ Assessment

2351

**Location Number** 

## **Observations**

### Findings:

# Environmental paramaters in auditorium area - 70.7 temp, 67.2 RH, 503 CO2

- Humidity level was elevated in auditorium area
- 2 stained ceiling tiles in SW exit foyer (20 foot ceiling)
- Dust build up on HVAC supply grills and on ceiling at supply grills (20 foot ceiling)
- Musty odor in room
- Clutter in AHU room (FISH 295) boxes
- Damaged insulation on chilled water lines in AHU room (FISH 295)

## Recommendations:

#### Site Based Maintenance:

- Remove boxes from FISH 295 AHU 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/EMS:

- Evaluate HVAC system for proper operation and repair as appropriate to lower humidity level EMS
- Evaluate cause of stained ceiling tiles in SW exit foyer and repair as appropriate. Remove and replace stained ceiling tiles.
- Clean HVAC supply grills and ceiling at supply grills (20 foot ceiling)
- Evaluate insulation on chilled water lines in FISH 295