

managing risk with responsibility

Jeffrey S. Moquin, Director Risk Management Department Telephone: 754-321-3200 Facsimile: 754-321-3290

November 21	, 2007 Signature on File
TO:	Ms. Robin David, Principal Royal Palm Elementary School
FROM:	Edward See, Project Manager Risk Management Department
SUBJECT:	Indoor Air Quality (IAQ) Assessment FISH 134 and 134C

F	or Custodial Supervisor Use Only
	Custodial Issues Addressed
	Custodial Issues Not Addressed

On October 25, 2007 I conducted a follow-up assessment of FISH 134 and 134C at **Royal Palm Elementary School**. The assessment consisted of a reevaluation walkthrough of the previously identified area to assess the current condition of the location with regard to indoor air quality. This assessment included reviewing previously generated work orders as well as observation of the area of concern as stated in the IAQ Assessments performed on March 15, 2007. Attached are the findings of this assessment along with recommendations for further assessment, remediation, or corrective actions, if needed.

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. Leontine Butler, Area Superintendent Fran Bolden, Area Director Jeffrey S. Moquin, Director, Risk Management Robert Goode, Project Manager, Facilities and Construction Management Ruby Fitzgerald, 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 As	sessment	Locatio	on Number	1851	
Royal Palm Elementa			ary School		Evaluat	ion Requested		
Time of Day	3:30 pm				E	Evaluation Date	October	25, 2007
Outdoor Conditio	ns Tem	perature	85.6	Relative Humidit	y 61	Ambie	nt CO2	467
Fish Ten	nperature F	Range Rel	ative Humidity	Range	CO2	Ran	ige #	Occupants
134	74.2 7	2 - 78	49.9	30% - 60%	600	Max 700	> Ambient	2
Noticeable Odor	No		Visible water mage / staining	Visible mic ? growth		Amount of main affected	terial	
Ceiling Type	2 x 4 Lay	In	Yes	No]	2 ce	eiling tiles	
Wall Type	Drwyall/Tack	able	No	No]		None	
Flooring	12 x 12 Vir	nyl	No	No]		None	
	Clean	Minor Dust / Debris	Needs Cleaning		Correc	ctive Action Re	equired	
Ceiling	Νο	Yes	Yes		Remove a	and replace cei	ling tiles	
Walls	Yes	No	No					
Flooring	Yes	No	No					
HVAC Supply Gri	ills Yes	No	No					
HVAC Return Gri	lls Yes	Νο	No					
Ceiling at Supply Grills	Yes	No	No					
Surfaces in Roon	n Yes	No	No					

Observations

Findings:

- 2 stained ceiling tiles

- 4 potted plants

Recommendations:

Site Based Maintenance:

- Remove and replace stained ceiling tiles

- Remove potted plants.

- 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 for cause of stained ceiling tiles and repair as appropriate

Previous work orders - J279957 and EQ00926, 927 and 928 - However, appears leak not repaired

Note: Plants are often pleasant additions to trouble free indoor environments. However, they can be sources for contamination by molds. Often they can be a source of water, which leads to the amplification of mold in the building. Their presence in a building or an area that is experiencing air quality concerns can be confusing and confounding. The simple and most direct solution is to remove the plants.

			IAQ As	sessment	Locatio	on Number	1851	
Royal Palm Elemer			ry School		Evaluati	on Requested		
Time of Day	3:30 pm				E	valuation Date	October	25, 2007
Outdoor Condi	tions Tem	perature	85.6	Relative Humidit	y 61	Ambie	nt CO2	467
Fish 7	Temperature	Range Rela	ative Humidity	Range	CO2	Ran	ige #	Occupants
134C	76.1 7	2 - 78	55.8	30% - 60%	636	Max 700	> Ambient	t 1
Noticeable Od	or No		Visible water nage / staining	Visible mic ? growth		Amount of main affected	terial	
Ceiling Type	Plaster		Yes	Yes	[@ 2	square feet	
Wall Type	Plaster		No	No			None	
Flooring	12 x 12 Vir	nyl	No	No			None	
	Clean	Minor Dust / Debris	Needs Cleaning		Correc	tive Action Re	equired	
Ceiling	No	Yes	Yes		Clea	an as appropri	ate	
Walls	Yes	No	No					
Flooring	Yes	No	No					
HVAC Supply	Grills					N/A		
HVAC Return (Grills Yes	No	No					
Ceiling at Sup Grills	ply					N/A		
Surfaces in Ro	oom Yes	Νο	No					

Observations

Findings:

- Minor dust and debris on ceiling
- Visible microbial growth on ceiling (@ 2 square feet)
- Visible microbial growth on chair
- A/C return not operational

- Grid around vent is rusted and paint is bubbling

Recommendations:

Site Based Maintenance:

- Clean ceiling as appropriate to remove dust and debris and microbial growth

- Clean chair with Wexcide disinfectant solution

- 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

- Evaluate cause of rusted vent bubbling paint and stained ceiling material and repair as appropriate

Previous work orders - J279957 and EQ00926, 927 and 928