

managing risk with responsibility

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February 12, 2	008 Signature on File
TO:	Ms. Stephanie Bevill,, Principal Broward Estates Elementary School
FROM:	Edward See, Project Manager Risk Management Department
SUBJECT:	Indoor Air Quality (IAQ) Assessment FISH 119 and Portable 277C

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

On February 4, 2008 I conducted a follow-up assessment of FISH 119 and Portable 277C at **Broward Estates 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 November 29, 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. Verda Farrow, Area Superintendent Michaelle Pope, Area Director Jeffrey S. Moquin, Director, Risk Management Sheldon Dash, Project Manager, Facilities and Construction Management Jerrod Neal, 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	Location	Number	0501	
	Broward Est	ates Elementar	y School		Evaluatio	n Requested	Februar	ry 4, 2008
Time of Day	1:30 pm				Ev	aluation Date	Februar	ry 4, 2008
Outdoor Condi	tions Terr	perature 7	9.1	Relative Humidity	61.9	Ambie	nt CO2	460
Fish	Temperature	Range Rela	tive Humidity	Range	CO2	Rar	nge #	Occupants
119	71.9 7	2 - 78	61.9	30% - 60%	665	Max 700	> Ambient	t 2
Noticeable Od	lor No		'isible water age / staining	Visible micr growth		Amount of ma affected	terial	
Ceiling Type	2 x 4 Lay	In	No	No			None	
Wall Type	Plaster/Dry	wall	No	No			None	
Flooring	12 x 12 Vir	nyl	No	No			None	
	Clean	Minor Dust / Debris	Needs Cleaning		Correcti	ve Action Re	equired	
Ceiling	Yes	Νο	No					
Walls	Yes	No	No					
Flooring	Yes	No	No					
HVAC Supply	Grills Yes	No	No					
HVAC Return	Grills No	Yes	Yes		PPO to	clean inside	grill	
Ceiling at Sup Grills	ply Yes	No	No					
Surfaces in Ro	oom Yes	No	No					

Observations

Findings: (Art Room)

- Excessive amounts of art chemicals stored and used in the room
- Humidity level was slightly elevated
- Dust and debris inside HVAC return grill
- Portable air purifier in room
- FISH 119C No issues identified at the time of the assessment
- FISH 119D No issues identified at the time of the assessment
- FISH 119E Dust build up on ceiling at supply grills and on walls
- FISH 119F No issues identified at the time of the assessment
- FISH 122 Mechanical Room A/C filters not taped together allowing bypass

Recommendations:

Site Based Maintenance:

- Encourage occupant to reduce amounts of chemicals in the room
- Wipe down walls and ceiling at supply grills to remove dust and debris in FISH 119E
- FISH 122 Tape A/C filters together
- 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
 FISH 119 Clean inside of HVAC return grills to remove dust and debris build up

Previous work orders - EQ01109 through EQ01113 for FISH 119 and Portable 277C

			IAQ As	sessment	Loca	tion Number	0501	
	Broward Es	tates Elementar	y School		Evalu	ation Requested	Februar	y 4, 2008
Time of Day	1:30 pm					Evaluation Date	Februar	y 4, 2008
Outdoor Conditio	ns Ten	nperature 7	9.1	Relative Hum	nidity 61	.9 Ambie	nt CO2	460
	nperature	Range Rela	tive Humidity	Range	CO2	Ran	ige #	Occupants
P - 277C	78.3 7	/2 - 78	59.9	30% - 60%	489	Max 700	> Ambient	2
Noticeable Odor	No		'isible water age / staining		microbial wth?	Amount of ma affected	terial	
Ceiling Type	4 x 8 Vinyl F	'anel	No	1	No		None	
Wall Type	Wood Pane	ling	Νο		No		None	
Flooring	12 x 12 Vi	nyl	No	1	No		None	
	Clean	Minor Dust / Debris	Needs Cleaning		Corr	ective Action Re	equired	
Ceiling	Yes	No	No					
Walls	Yes	No	No					
Flooring	Yes	No	No					
HVAC Supply Gr	ills No	Yes	Yes		Clean w	ith Wexcide dis	infectant	
HVAC Return Gri	ills Yes	No	No					
Ceiling at Supply Grills	Yes	No	No					
Surfaces in Roor	n Yes	No	No					

Observations

Findings:

- Portable was not occupied at the time of the assessment
- A/C units were off at the time of the assessment. Turned on at the time of the assessment and set to 78 degrees.
- A/C filter is not proper size and allowing air bypass
- Dust and debris on A/C supply grills

Recommendations:

Site Based Maintenance:

- Ensure that one A/C unit remains in economy mode and the other off when unit is not occupied to provide air circulation. Both units should be kept on and set to proper temperature when the unit is occupied.

- Install proper size filters in A/C units
- Clean A/C supply grills 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

Previous work orders - EQ01109 through EQ01113 for FISH 119 and Portable 277C