

Aston A. Henry, Supervisor **Risk Management Department**

managing risk with responsibility

Telephone: 754 321-1900 Fax:

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December 14, 2010		Signature on File		
TO:	-	e Bevill, Principal t es Elementary School		
FROM:		Project Manager ment Department		
SUBJECT:	Indoor Air Q FISH 110D, 1	uality (IAQ) Assessment 10G and 303		

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

On November 16, 2010 I conducted an assessment of FISH 110D, 110G and 303 at Broward Estates Elementary 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. In an attempt to separate IAQ issues from general maintenance items, the attached assessment may contain direction for site based staff to generate a work order through COMPASS. 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 754-321-1900.

cc:	Dr. Desmond Blackburn, Area Superintendent						
	Carle Shaw, Area Director						
	Jeffrey S. Moquin, Executive Director, Support Operations						
	Aston Henry, Supervisor, Risk Management						
	Charles Ricks, Project Manager, Facilities and Construction Management						
	Jerrod Neal, Broward Teachers Union						
	Roy Jarrett, Federation of Public 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	Location Number	0501
	Broward Est	ates Elementar	y School		Evaluation Requested	November 9, 2010
Time of Day					Evaluation Date	November 16, 2010
Outdoor Conditi	ons Ten	nperature	33.9	Relative Humidity	54.5 Ambie	nt CO2 401
Fish Te	emperature	Range Rela	tive Humidity	Range	CO2 Ran	ige # Occupants
110D	76.1 7	2 - 78	52.1	30% - 60%	770 Max 700	> Ambient 2
Noticeable Odo	nr No		/isible water hage / staining	Visible microl ? growth?	bial Amount o material affec	
Ceiling Type	2 x 4 Lay	In	No	No		None
Wall Type	Drywall		Yes	No	Under	window sill
Flooring	12 x 12 Vi	nyl	No	No		None
	Clean	Minor Dust / Debris	Needs Cleaning		Corrective Action Re	equired
Ceiling	Yes	No	No			
Walls	Yes	No	No			
Flooring	Yes	No	No			
HVAC Supply G	ills Yes	No	No			
HVAC Return G	rills Yes	No	No			
Ceiling at Supp Grills	ly Yes	No	No			
Surfaces in Roc	om Yes	No	No			

Observations

Findings

- Signs of water intrusion under window - bubbling paint

Site Based Maintenance:

- 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 water intrusion and repair as appropriate. Repair/replace wall material as necessary.

NOTE: Work order EQ01565 and EQ01566 generated

			IAQ Ass	sessment	Location Number	0501
	Broward Esta	ates Elementary	/ School		Evaluation Requested	November 9, 2010
Time of Day					Evaluation Date	November 16, 2010
Outdoor Condit	ions Terr	perature 8	3.9	Relative Humidity	54.5 Ambie	nt CO2 401
Fish T	emperature F	Range Relat	ive Humidity	Range	CO2 Rar	ige # Occupants
110G	76.1 7	2 - 78	52.1	30% - 60%	770 Max 700	> Ambient 2
Noticeable Ode	or No	-	'isible water age / staining	Visible microl ? growth?	bial Amount o material affec	
Ceiling Type	2 x 4 Lay	In	No	No		None
Wall Type	Drywall		No	No		None
Flooring	12 x 12 Vir	nyl	No	No		None
	Clean	Minor Dust / Debris	Needs Cleaning		Corrective Action Re	equired
Ceiling	Yes	No	No			
Walls	Yes	No	No			
Flooring	Yes	Νο	No			
HVAC Supply (Grills Yes	No	No			
HVAC Return C	Grills Yes	No	No			
Ceiling at Supp Grills	oly Yes	No	No			
Surfaces in Ro	om Yes	No	No			

Observations

Findings

- Occupant advised of musty odor in the morning. Slight odor in FISH 110

- FISH 113 and 122 (AHU rooms) - A/C filters not taped together

Site Based Maintenance:

- Ensure that A/C filters in AHU rooms are taped together to prevent bypass of particulates

- Continue to monitor this location for any signs of microbial growth as well as dust and debris accumulation and clean as appropriate

			IAQ Ass	sessment	Location Number	0501
	Broward Est	ates Elementar	y School		Evaluation Requested	November 9, 2010
Time of Day					Evaluation Date	November 16, 2010
Outdoor Condi	tions Ten	nperature	33.9	Relative Humidity	54.5 Ambie	nt CO2 401
Fish	Femperature	Range Rela	tive Humidity	Range	CO2 Ran	ige # Occupants
303	74.1 7	2 - 78	56.6	30% - 60%	1245 Max 700	> Ambient 20
Noticeable Od	or No		/isible water hage / staining	Visible microl ? growth?	bial Amount o material affec	-
Ceiling Type	2 x 4 Lay	In	Yes	No	1 c	eiling tile
Wall Type	Drywall		Yes	No	@4 square	feet - North wall
Flooring	12 x 12 Vi	nyl	No	No		None
	Clean	Minor Dust / Debris	Needs Cleaning		Corrective Action Re	equired
Ceiling	No	Yes	Yes	R	emove and replace ce	eiling tile
Walls	Yes	No	No			
Flooring	Yes	No	No			
HVAC Supply	Grills Yes	No	No			
HVAC Return	Grills Yes	No	No			
Ceiling at Sup Grills	ply Yes	No	No			
Surfaces in Ro	oom No	Yes	Yes		Clean as appropri	ate

Observations

Findings

- Signs of water intrusion on North wall bubbling paint
- Occupant complaint of odors and allergies
- Dust build up on area rug
- Non-approved chemical in room (potpourri)
- Chalkboard in room
- Dust build up on environmental surfaces
- CO2 level was slightly elevated

Site Based Maintenance:

- Remove and replace stained ceiling tile and monitor. If stain returns contact COMPASS to generate a work order for Physical Plant Operations to evaluate for cause

- Clean area rug
- Remove non-approved chemicals (potpourri)
- Consider replacing chalkboard with marker board
- Thoroughly clean surfaces throughout the 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:

- Evaluate for cause of water intrusion and repair as appropriate. Repair/replace wall material as necessary.

- Evaluate HVAC system for proper operation and repair as appropriate to lower CO2 level

NOTE: Work order EQ01565, EQ01566 and EQ01567 generated