

Aston A. Henry, Supervisor Risk Management Department

managing risk with responsibility

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March 15, 2010	Signature on File
TO:	Ms. Patricia Hague, Principal Plantation Middle School
FROM:	Edward See, Project Manager Risk Management Department
SUBJECT:	Indoor Air Quality (IAQ) Assessment

FISH 127, 127A, 127B, 127E and 127F

Fo	r Custodial Supervisor Use Only
	Custodial Issues Addressed
	Custodial Issues Not Addressed

On February 19, 2010 I conducted an assessment of FISH 127, 127A, 127B, 127E and 127F at **Plantation Middle 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. Leontine Butler, Area Superintendent							
	Michaelle Pope, Area Director							
	Jeffrey S. Moquin, Executive Director, Support Operations							
	Aston Henry, Supervisor, Risk Management							
	Wayne Thrasher, Project Manager, Facilities and Construction Management							
	Diane Watts, 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 As	sessment	Location I	Number	0551	
	ŀ	Plantation Middle	e School		Evaluation	Requested	February	/ 16, 2010
Time of Day	10:30 am]			Eva	luation Date	February	/ 19, 2010
Outdoor Condi	itions Ter	nperature 7	/1.1	Relative Humidi	y 19.8	Ambie	nt CO2	443
Fish	Temperature	Range Relat	tive Humidity	Range	CO2	Ran	ige #	Occupants
127	67.6	72 - 78	41.4	30% - 60%	884	Max 700	> Ambient	4
Noticeable Od	lor No		/isible water age / staining	Visible mic growth		Amount o material affec		
Ceiling Type	2 x 4 Lay	In	Yes	No			Various	
Wall Type	Drywall/Pla	aster	No	No] [None	
Flooring	12 x 12 V	inyl	No	No			None	
	Clean	Minor Dust / Debris	Needs Cleaning		Correctiv	ve Action Re	equired	
Ceiling	No	Yes	Yes		Remove and	l replace cei	iling tiles	
Walls	Yes	No	No					
Flooring	Νο	Yes	Yes		Clear	n and sanitiz	ze	
HVAC Supply	Grills No	Yes	Yes		Clean with W	Vexcide dis	infectant	
HVAC Return	Grills No	Yes	Yes		Clean with V	Vexcide dis	infectant	
Ceiling at Sup Grills	ply Yes	No	No					
Surfaces in Ro	oom No	Yes	Yes		Clean	as appropri	ate	

Findings:

- Temperature was low at the time of the assessment ongoing HVAC project in progress
- Signs of water intrusion at exhaust hood
- Rodent droppings along baseboard and shelves. Multiple glue traps set.
- Dust and debris on HVAC supply and return grills
- Multiple stained ceiling tiles

Site Based Maintenance:

- Once pest issue is under control, coordinate with occupant to remove items and facilitate a thorough wipe down of the room with Wexcide disinfectant solution and clean and sanitize flooring.

- Clean HVAC supply and return grills with Wexcide disinfectant solution
- Remove and replace stained ceiling tiles and continue to monitor until repairs are facilitated by Physical Plant Operations

- 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.
- Follow up with Pest Control regarding status of rodent issues

Facilities and Construction Management:

			IAQ Ass	sessment	Location Number	0551
		Plantation Midd	lle School		Evaluation Requested	February 16, 2010
Time of Day	10:30 am]			Evaluation Date	February 19, 2010
Outdoor Condi	tions Te	mperature	71.1	Relative Humidity	19.8 Ambie	nt CO2 443
Fish	Temperature	Range Rela	ative Humidity	Range	CO2 Rar	ige # Occupants
127A	67	72 - 78	41.7	30% - 60%	881 Max 700	> Ambient 1
Noticeable Od	or No]dai	Visible water mage / staining	Visible microl ? growth?	bial Amount o material affec	
Ceiling Type	2 x 4 Lay	/ In	Yes	No		A/C grill
Wall Type	Drywall/Pla	aster	No	No		None
Flooring	12 x 12 V	inyl	Yes	No		Various
	Clean	Minor Dust / Debris	Needs Cleaning		Corrective Action Re	equired
Ceiling	Yes	No	No			
Walls	Yes	No	No			
Flooring	Νο	Yes	Yes	Eva	luate for water damag	je/staining
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

Findings:

- Water damage and possible termite damage at front desk under sink
- Water damage/staining on floor at front desk
- Rusted A/C grill
- Dust build on elevated surfaces
- Temperature was low at the time of the assessment ongoing HVAC project in progress
- Occupant indicated that sinks in room are not working

Site Based Maintenance:

- Thoroughly clean elevated surfaces throughout the room
- Adjust thermostat to increase temperature
- Contact COMPASS to generate a work order to evaluate sinks

- 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 front desk sink area for cause of water damage and repair as appropriate. Repair/replace cabinet material as necessary.

- Evaluate flooring water damage/staining
- Generate a work order for Pest Control
- Remove and replace rusted A/C grill

Facilities and Construction Management:

			IAQ Ass	sessment	Location Number	0551
	ŀ	Plantation Middle	e School		Evaluation Requested	February 16, 2010
Time of Day	10:30 am]			Evaluation Date	February 19, 2010
Outdoor Condit	tions Ter	nperature	71.1	Relative Humidity	19.8 Ambie	nt CO2 443
Fish T	emperature	Range Rela	tive Humidity	Range	CO2 Ran	ge # Occupants
127B	67	72 - 78	42.2	30% - 60%	1061 Max 700	> Ambient 21
Noticeable Od	or 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/Pla	aster	No	No		None
Flooring	12 x 12 V	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	Grills Yes	No	No			
HVAC Return (Grills Yes	No	No			
Ceiling at Sup Grills	ply Yes	No	No			
Surfaces in Ro	om No	Yes	Yes		Clean as appropri	ate

Findings:

- Minor rust on exhaust hood in science prep area

- Dust build on elevated surfaces

- Temperature was low at the time of the assessment - ongoing HVAC project in progress

Site Based Maintenance:

- Thoroughly clean elevated 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

Facilities and Construction Management:

			IAQ Ass	sessment	Location Number	0551
	F	lantation Middle	School		Evaluation Requested	February 16, 2010
Time of Day	10:30 am				Evaluation Date	February 19, 2010
Outdoor Condition	ns Terr	perature 7	1.1	Relative Humidity	19.8 Ambie	ent CO2 443
Fish Tem	perature F	Range Relat	ive Humidity	Range	CO2 Rai	nge # Occupants
127E	67.4 7	2 - 78	41	30% - 60%	894 Max 700	> Ambient 3
Noticeable Odor	No		isible water age / staining	Visible micro ? growth?	bial Amount o material affe	
Ceiling Type	2 x 4 Lay	In	No	No		None
Wall Type	Drywall/Pla	ster	No	No		None
Flooring	12 x 12 Vir	nyl	No	No		None
	Clean	Minor Dust / Debris	Needs Cleaning		Corrective Action R	equired
Ceiling	Yes	No	No			
Walls	Yes	No	No			
Flooring	Yes	No	No			
HVAC Supply Gri	lls Yes	No	No			
HVAC Return Gril	lls Yes	No	No			
Ceiling at Supply Grills	Yes	No	No			
Surfaces in Room	Yes	No	No			

Findings

- Temperature was low at the time of the assessment ongoing HVAC project in progress
- Rodent droppings at baseboard PPO pest control is aware

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

Facilities and Construction Management:

			IAQ Ass	sessment	Location Number	0551
	F	lantation Middle	School		Evaluation Requested	February 16, 2010
Time of Day	10:30 am				Evaluation Date	February 19, 2010
Outdoor Condi	itions Ten	perature 7	1.1	Relative Humidity	19.8 Ambie	nt CO2 443
Fish	Temperature	Range Relat	ive Humidity	Range	CO2 Ran	ge # Occupants
127F	69.2 7	2 - 78	43.5	30% - 60%	1280 Max 700	> Ambient 23
Noticeable Od	lor 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/Pla	ster	No	No		None
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	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

Findings:

- CO2 level was slightly elevated at the time of the assessment ongoing HVAC project in progress
- Dust build on elevated surfaces
- Temperature was low at the time of the assessment ongoing HVAC project in progress
- Occupant indicated rodent issue PPO pest control is aware

Site Based Maintenance:

- Thoroughly clean elevated 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

Facilities and Construction Management:

- Advise HVAC contractor of low temperature and elevated CO2