

managing risk with responsibility

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dial Supervisor Use Only

March 14, 2008	Signature on File	For Custodial Supervisor Use Or		
TO:	Mr. Donald Cottrell, Principal	Custodial Issues Addressed		
	Broadview Elementary School	Custodial Issues Not Addressed		
FROM:	Edward See, Project Manager Risk Management Department			
SUBJECT:	Indoor Air Quality (IAQ) Assessment FISH 104A, 119 and 149			

On March 12, 2008 I conducted an assessment of FISH 104A, 119 and 149 at Broadview 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. 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 Dr. Desmond Blackburn, Area Director Jeffrey S. Moguin, Director, Risk Management Israel Rodriguez-Soto, Project Manager, Facilities and Construction Management Gary Itzkowitz, 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 A	ssessment	Location Number	0811
	Broadview B	Elementary School		Evaluation Requested	March 3, 2008
Time of Day 3	:30 pm			Evaluation Date	March 12, 2008
Outdoor Conditions	5 Temperat	ure 79.1	Relative Humidity	61.6 Ambie	ent CO2 471
Fish Temp	erature Range	e Relative Humidi	^{ty} Range	CO2 Ra	nge # Occupants
104A	79 72 - 78	49.1	30% - 60%	543 Max 700) > Ambient 1
Noticeable Odor	Yes	Visible water damage / stainii			
Ceiling Type	2 x 4 Lay In	No	No		None
Wall Type	Drywall/Plaster	No	No		None
Flooring	12 x 12 Vinyl	No	No		None
		or Dust Needs Debris Cleanin		Corrective Action R	equired
Ceiling	Yes	No			
Walls	Yes	No			
Flooring	Yes	No			
HVAC Supply Grills	s Yes	No			
HVAC Return Grills	Yes	No			
Ceiling at Supply Grills	Yes	No			
Surfaces in Room	Yes	No			

Observations

Findings:

- Temperature was elevated at the time of the assessment. Room is being used for computer equipment.

- Two laminators in the room appear to be cause of odor. A/C vent at East side is not working.

Recommendations:

Site Based Maintenance:

- Keep door to the library open for additional air circulation

- 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 temperature
- Evaluate A/C vent at East side for proper operation and repair as appropriate

			IAQ As	sessment	Locati	on Number	0811	
	Broadvi	ew Elementar	y School		Evalua	tion Requested	March	3, 2008
Time of Day	3:30 pm					Evaluation Date	March	12, 2008
Outdoor Conditior	ns Temp	erature 7	/9.1	Relative Hum	idity 61.6	6 Ambie	nt CO2	471
Fish Tem	perature Ra	inge Rela	tive Humidity	Range	CO2	Ran	ge #	Occupants
119	72.9 72	- 78	69.8	30% - 60%	787	Max 700	> Ambient	1
Noticeable Odor	Yes		/isible water age / staining		microbial wth?	Amount of mat affected	terial	
Ceiling Type	2 x 4 Lay In		No	Ν	lo		None	
Wall Type	Drywall/Plast	er	Νο	N	lo		None	
Flooring	12 x 12 Viny	I	No	N	lo		None	
	Clean	Minor Dust / Debris	Needs Cleaning		Corre	ctive Action Re	equired	
Ceiling	Yes	Νο	No					
Walls	Yes	Νο	No					
Flooring	Yes	Νο	No					
HVAC Supply Gri	lls Yes	No	No					
HVAC Return Gril	Is No	Yes	Yes	C	lean with W	excide disinfec	tant soluti	on
Ceiling at Supply Grills	Yes	No	No					
Surfaces in Room	Yes	No	No					

Observations

Findings:

- Humidity level was elevated at the time of the assessment
- Musty odor in room
- Dust and debris on HVAC return grills
- Dust and debris on A/C filters
- Blankets and stuffed animals in the room. Please note that these items are a source of allergens and dust accumulation.

Recommendations:

Site Based Maintenance:

- Clean HVAC return grills with Wexcide disinfectant solution
- Remove and replace A/C filters and be sure to change regularly
- Advise occupant to clean and/or wash blankets and stuffed animals regularly or remove from 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 HVAC for proper operation and repair as appropriate to lower humidity level

			IAQ As	sessment	Location Number	0811
	Broad	view Elementar	y School		Evaluation Reques	sted March 3, 2008
Time of Day	3:30 pm				Evaluation	Date March 12, 2008
Outdoor Conditio	ons Terr	perature 7	9.1	Relative Humidity	61.6 A	mbient CO2 471
Fish Ter	mperature	Range Rela	tive Humidity	Range	CO2	Range # Occupants
149	71.2 7	2 - 78	68.7	30% - 60%	1720 Max	c 700 > Ambient 1
Noticeable Odor	Yes		'isible water age / staining	Visible micro g? growth?		of material ected
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	on Required
Ceiling	Yes	No	No			
Walls	Yes	No	No			
Flooring	Yes	No	No			
HVAC Supply Gr	ills Yes	No	No			
HVAC Return Gr	ills No	Yes	Yes		Clean as app	ropriate
Ceiling at Supply Grills	Yes	No	No			
Surfaces in Roor	m No	Yes	Yes		Clean as app	ropriate

Observations

Findings:

- Humidity and CO2 levels were elevated at the time of the assessment
- Musty odor in room
- Heavy dust and debris inside of HVAC return
- Dust build up on environmental surfaces throughout the room
- Dust and debris and rust in AHU drain pan FISH 165

Recommendations:

Site Based Maintenance:

- Clean environmental 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 HVAC for proper operation and repair as appropriate to lower humidity and CO2 levels

- Clean inside HVAC returns to remove dust and debris
- FISH 165 Evaluate drain pan in AHU and clean as appropriate