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February 12, 2007

Signature on File

TO:	Ms. Elise Portman, Principal
	Cypress Elementary School

- FROM: Robert J. Krickovich, Coordinator, LEA Facilities and Construction Management, Environmental Division
- SUBJECT: Indoor Air Quality (IAQ) Assessment FISH 104 and 105

On January 22, 2007 I conducted an assessment of FISH 104 and 105 at **Cypress 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.

Should any questions arise, or if the current concerns continue after the attached recommendations have been addressed, please feel free to contact me at 754-321-1638.

 cc: Dr. Joanne Harrison, Area Superintendent Jackie Haywood, Area Director
Jeffrey S. Moquin, Director, Risk Management Sam Bays, Project Manager, Facilities and Construction Management Jamie Daniels, Broward Teachers Union Mark Dorsett, Manager 1, Physical Plant Operations Division, Zone 1 Roy Norton, Manager Custodial/Grounds, Physical Plant Operations Division

RK/tc Enc.

			IAQ Assessment		Locati	Location Number		
	Сур	ess Elementa	y School		Evaluat	tion Requested	January	/ 19, 2007
Time of Day	1:00 pm				I	Evaluation Date	January	22, 2007
Outdoor Conditio	ons Tem	perature 8	33.2	Relative Humid	ty 65.2	2 Ambie	ent CO2	495
Fish Ter	mperature F	ange Rela	tive Humidity	Range	CO2	Rar	nge #	Occupants
104	70.1 7 2	2 - 78	68.1	30% - 60%	906	Max 700	> Ambient	t 1
Noticeable Odor	Yes		/isible water hage / staining	Visible mi g? growt		Amount of ma affected	terial	
Ceiling Type	2 x 4 Lay	n	No	No			None	
Wall Type	Tackboar	d	No	No]		None	
Flooring	Carpet		No	No]		None	
	Clean	Minor Dust / Debris	Needs Cleaning		Corre	ctive Action Re	equired	
Ceiling	Yes	No	No					
Walls	Yes	No	No					
Flooring	Yes	No	No					
HVAC Supply Gr	ills No	Yes	Yes		Clean wit	th Wexcide dis	infectant	
HVAC Return Gr	ills Yes	No	No					
Ceiling at Supply Grills	/ Yes	No	No					
Surfaces in Roor	n Yes	Νο	No					

Observations

Findings:

- Noticeable odor in room
- Minor dust and debris on HVAC supply grills
- Temperature was low and humidity level was elevated at the time of the assessment
- Dust and debirs on A/C coils and drain pan

Recommendations:

Site Based Maintenance:

- Clean HVAC 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

Physical Plant Operations:

- Evaluate and repair HVAC system to increase temperature and lower humidity level. Check HVAC fan coil unit above ceiling for proper operation.

- Clean A/C coils and drain pan

			IAQ As	sessment	Location N	umber	1781	
	Сур	oress Elementar	y School		Evaluation I	Requested	January	19, 2007
Time of Day	1:00 pm				Evalu	uation Date	January	22, 2007
Outdoor Condi	tions Ten	nperature 8	3.2	Relative Humidity	65.2	Ambie	nt CO2	495
Fish	Temperature	Range Relat	tive Humidity	Range	CO2	Ran	nge #	Occupants
105	74.5 7	2 - 78	68.2	30% - 60%	845] Max 700	> Ambient	3
Noticeable Od	lor Yes	-	ïsible water age / staining	Visible micro ? growth?	obial An	nount of ma affected	terial	
Ceiling Type	2 x 4 Lay	In	No	No			None	
Wall Type	Tackboa	rd	No	No			None	
Flooring	Carpet		No	No			None	
	Clean	Minor Dust / Debris	Needs Cleaning		Corrective	e Action Re	equired	
Ceiling	Yes	Νο	No					
Walls	Yes	Νο	No					
Flooring	Yes	No	No					
HVAC Supply	Grills No	Yes	Yes	C	lean with W	excide dis	infectant	
HVAC Return	Grills Yes	No	No					
Ceiling at Sup Grills	ply Yes	No	No					
Surfaces in Ro	oom Yes	No	No					

Observations

Findings:

- Noticeable odor in room
- Visible microbial growth inside one desk
- Minor dust and debris on HVAC supply grills
- Humidity level was elevated at the time of the assessment
- Dust and debirs on A/C coils and drain pan

Recommendations:

Site Based Maintenance:

- Clean inside of desks with Wexcide disinfectant solution
- Clean HVAC 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

Physical Plant Operations:

- Evaluate and repair HVAC system to lower humidity level. Check HVAC fan coil unit above ceiling for proper operation. - Clean A/C coils and drain pan