

managing risk with responsibility

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Jeffrey S. Moquin, Director Risk Management Department

September 20, 2006 Signature on File

TO: Ms. Jennifer Freeland, Principal

Liberty Elementary School

FROM: Robert J. Krickovich, Coordinator, LEA

Facilities and Construction Management, Environmental Division

SUBJECT: Indoor Air Quality (IAQ) Assessment

FISH 103

On September 1 and 5, 2006 I conducted an assessment of FISH 103 at **Liberty 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
Sharon Airaghi, Area Director
Jeffrey S. Moquin, Director, Risk Management
Dave DeWald, 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.

	Lib	erty Elementary	School		Evaluati	ion Requested	Septembe	er 1, 2006	
Time of Day	11:30 am				E	Evaluation Date	Septembe	er 1, 2006	
Outdoor Condi	tions Tem	perature 88	3.8 R	Relative Humic	lity 61	Ambie	nt CO2	460	
		Range Relati	ive Humidity	Range	CO2	Ran	ge # (Occupants	
103	74.3 7 2	2 - 78	50.9	30% - 60%	936	Max 700	> Ambient	23	
Noticeable Od		Visible water Visible micro damage / staining? growth?			Amount of material affected				
Ceiling Type	Ceiling Type 2 x 4 Lay In		No			None			
Wall Type	Drywall		No	No					
Flooring	Carpet		No	No					
	Clean	Minor Dust / Debris	Needs Cleaning		Correc	ctive Action Re	quired		
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 Supp Grills	ply Yes	No	No						
Surfaces in Ro	oom Yes	No	No						
) Dbservations									

IAQ Assessment

3821

Location Number

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Findings:

- Complaint of odor first thing in the morning after weekends
- Minor staining on carpet
- Dust build up inside of HVAC supply grills on South wall
- Stained ceiling tiles in 103E where previous leak was repaired
- 2 stained ceiling tiles in corridor in front of FISH 103B at fire sprinkler

Recommendations:

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 stained ceiling tiles in corridor in front of FISH 103B at fire sprinkler and repair. Replace ceiling tiles as necessary.
- Replace stained ceiling tiles in FISH 103E
- Clean inside of HVAC supply grills on South wall

		Libe	rty Eleme	entary School	-			Evaluat	ion Re	equested	Sept	ember 1	1, 2006
Time of Day [6:40	am						E	Evalua	ation Date	Sept	ember 5	5, 2006
Outdoor Condi	itions	Temp	erature	75.9	Rel	ative Hu	midity	90.3		Ambi	ent CO2	51	5
Fish	Temperat	ure Ra	nge	Relative Hum	idity	Range		CO2		Ra	nge	# Oc	cupants
103	76.9		- 78 [63.6	309	% - 60%		509		Max 700	_	_	2
Noticeable Odor No			Visible wa damage / stai			le micro rowth?	bial	Amo	ount of ma affected				
Ceiling Type	2	x 4 Lay In		No			No				None		
Wall Type		Drywall		No			No				None		
Flooring		Carpet		No			No				None		
	Cle	ean	Minor Dı / Debri					Correc	ctive	Action R	equired	l	
Ceiling	Y	es	No	No)								
Walls	Y	′es	No	No	o								
Flooring	Y	′es	No	No	o								
HVAC Supply	Grills Y	′es	No	No	o								
HVAC Return	Grills Y	′es	No	No	o								
Ceiling at Sup Grills	ply Y	res	No	No	D								
Surfaces in Ro	oom Y	res	No	No	•								
bservations													
Findings: - Complaint of odor first thing in the morning after weekends so visited the school at 6:40 a.m. after long 3 day weekend and there was no noticeable odor.													
Recommendat	ions:												
Site Resed Mai	intenanc	٥.											
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													

IAQ Assessment

3821

Location Number