

Jeffrey S. Moquin, Director Risk Management Department managing risk with responsibility

Telephone: 754-321-3200 Facsimile: 754-321-3290

June 30, 2005

TO:	Ms. Constantina Robinson, Principal Martin Luther King Elementary School
FROM:	Robert J. Krickovich, Coordinator, LEA Facilities and Construction Management, Environmental Division
SUBJECT:	Indoor Air Quality (IAQ) Assessment FISH 410 and 414

On June 16, 2005 the IAQ Assessment Team conducted an assessment of FISH 410 and 414 at **Martin Luther King Elementary School.** The evaluation consisted of a walkthrough of the identified areas to assess the current condition of the location with regard to indoor air quality. This assessment included observations of the carpet, floor tile, ceiling tile, interior walls, false ceiling plenum, and accessible ventilation equipment.

Attached are the findings of this assessment along with recommendations for further assessment, remediation, or corrective actions, if needed.

Generally, the IAQ Assessment did not identify any existing conditions significantly impacting IAQ and thereby presenting immediate health and safety concerns 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. Verda Farrow, Area Superintendent
 Kevin Sawyer, Area Director
 Jeffrey S. Moquin, Director, Risk Management
 Rodney Williams, Project Manager II, Facilities and Construction Management
 Jerrod Neal, Broward Teachers Union
 Mark Dorsett, Manager 1, Physical Plant Operations Division, Zone 1
 Roy Norton, Manager Custodial/Grounds, Physical Plant Operations Division

RK/tc

IAQ Assessment										
Martin Luther King Elementary School					Evaluation Requested					
Time of Day	1:00 pm				E	Evaluation Date	June 1	3, 2005		
Outdoor Condi	tions Temp	perature 9	2.5	Relative Hur	nidity 59.2	Ambie	nt CO2	463		
Fish	Temperature R	ange Rela	tive Humidity	Range	CO2	Ran	ge #	Occupants		
410	70.7 72	- 78	52.8	30% - 60%	394	Max 700	> Ambient	2		
Noticeable Odor No			Visible water Visible microbial A damage / staining? growth?			Amount of material affected				
Ceiling Type	Open Grid		No		No	None				
Wall Type	Drywall		Yes		/es	Baseboard				
Flooring	Sheet Vinyl		Yes		/es	Spo	Spot Growth			
Ceiling	Clean Yes	Minor Dust / Debris No	Needs Cleaning No		Correc	ctive Action Re	quired			
Walls	No	Yes	Yes		Clean with Wexcide disinfectant					
Flooring No Yes			Yes		Cle	ean and Sanitiz	e			
HVAC Supply	Grills Yes	Νο	No							
HVAC Return	Grills Yes	Νο	Νο							
Ceiling at Sup Grills	ply Yes	No	No							
Surfaces in Ro	oom No	Yes	Yes		Clean tables	with Wexcide	disinfectan	t		

Observations

Findings:

- Visible microbial growth on edges of cafeteria tables, vinyl flooring and vinyl baseboard of North and West walls. Minor amounts of spotty growth on drywall just above baseboard. Appears to be caused by spills and splatters.

Recommendations:

Site Based Maintenance:

- Clean cafeteria tables, baseboards and walls with Wexcide disinfectant solution

- Clean and sanitize vinyl floor

- Site based administration to address general cleanliness with facilities serviceperson staff

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

IAQ Assessment										
Martin Luther King Elementary School					Evaluat	tion Requested	June 1	5, 2005		
Time of Day	1:00 pm				I	Evaluation Date	June 1	6, 2005		
Outdoor Condition	s Tem	perature	92.5	Relative Hun	nidity 59.2	2 Ambie	nt CO2	463		
Fish Tem	perature F	Range Rela	ative Humidity	Range	CO2	Ran	ge #	Occupants		
414	70.7 7	2 - 78	52.8	30% - 60%	394	Max 700	> Ambient	2		
Noticeable Odor	No		Visible water nage / staining		microbial owth?	Amount of main affected	terial			
Ceiling Type	Drywall		Yes		(es	9 square fe	et in front o	f hood		
Wall Type	Wall Type Ceramic Tile				None					
Flooring	Quarry Tile	e	No		No					
	Clean	Minor Dust / Debris	Needs Cleaning	l	Corre	ctive Action Re	equired			
Ceiling	Νο	Yes	Yes	Clea	n spots on co	eiling with Wex	cide disinf	ectant		
Walls	Yes	No	No							
Flooring	Yes	No	No							
HVAC Supply Gril	ls Yes	No	No							
HVAC Return Grill	s No	Yes	Yes		Clean wit	h Wexcide disi	infectant			
Ceiling at Supply Grills	Yes	No	No							
Surfaces in Room	Yes	Νο	No							

Observations

Findings:

- Visible microbial growth on ceiling (@40 spots from 1/4" to 1 1/2" in diameter). Facilities serviceperson advised that the kitchen staff had splattered something on the ceiling and it was not cleaned off.

- Hot air is coming through hood supply duct when fan is off

- Dust and debris on HVAC return grills

Recommendations:

Site Based Maintenance:

- Clean ceiling with Wexcide disinfectant solution

- Clean HVAC return grills with Wexcide disinfectant solution

- Site based administration to address general cleanliness with kitchen staff

- 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 Division:

- Evaluate and repair cause of water damage and microbial growth on wall under hood

- Evaluate and repair cause of hot air flow when supply fan is off (Jim Eberling of Zone 2 has been notified and is working to correct)