

managing risk with responsibility

Telephone: 754-321-3200

Facsimile: 754-321-3290

Jeffrey S. Moquin, Director Risk Management Department

FISH 142, 142B and 142C

July 30, 2007	Signature on File	For Custodial Supervisor Use Only
TO:	Ms. Sherry Bees, Principal Maplewood Elementary School	Custodial Issues Addressed Custodial Issues Not Addressed
FROM:	Edward See, Project Manager Risk Management Department	
SUBJECT:	Indoor Air Quality (IAQ) Assessment	

On July 6, 2007 I conducted an assessment of FISH 142, 142B and 142C at **Maplewood 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. Joanne Harrison, Area Superintendent
Jackie Haywood, Area Director
Jeffrey S. Moquin, Director, Risk Management
Philip Kaufold, Project Manager, Facilities and Construction Management
Sam Bays, 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.

Maplewood Elementary School					Evaluation Requested July 6, 2007			
Time of Day]			E	Evaluation Date	July 6, 2007	
Outdoor Condi	tions Ter	mperature	89.8	Relative Humidit	y 63.4	Ambient C	O2 525	
Fish	Temperature	Range R	Relative Humidity	Range	CO2	Range	# Occupants	
142	77.6	72 - 78	55.3	30% - 60%	762	Max 700 > Aı	mbient 7	
Noticeable Odor No			Visible water Visible mid damage / staining? growtl			Amount of material affected		
Ceiling Type	2 x 4 Lay	' In	No	No		Non	е	
Wall Type	Tackable/D	rywall	No			None		
Flooring	Vinyl		No	No		Nor	ne	
	Clean	Minor Du		1	Correc	ctive Action Requi	red	
Ceiling	Yes	No	No					
Walls	Yes	No	No					
Flooring	No	Yes	Yes		Clo	ean and sanitize		
HVAC Supply	Grills Yes	No	No					
HVAC Return	Grills No	Yes	Yes		Clean wit	h Wexcide disinfed	ctant	
Ceiling at Sup Grills	ply Yes	No	No					
Surfaces in Ro	oom No	Yes	Yes		Clea	an as appropriate		

IAQ Assessment

2741

Location Number

Observations

Findings:

- Teacher advised that there is a musty odor prevalent in the morning no odor detected
- Dust and debris on floor
- Dust and debris on HVAC return grills
- Dust build up on environmental surfaces due to excessive clutter in room
- AHU #8 Debris and microbial growth in drain pan. Air filters not taped together.

Recommendations:

Site Based Maintenance:

- Clean and sanitize floor
- Clean HVAC return grills with Wexcide disinfectant solution
- Thoroughly clean environmental surfaces throughout the room. Encourage occupant to reduce clutter to assist in cleaning efforts.
- AHU #8 Ensure that filters are taped together
- 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:

- Clean drain pan in AHU #8 - Note work order issued by PPO to expedite

	Maple	wood Elementa	ary School		Evaluation F	requested _	July 6, 2007
Time of Day]			Evalu	ation Date	July 6, 2007
Outdoor Condi	itions Ter	mperature	89.8	Relative Humidity	63.4	Ambien	t CO2 525
Fish	Temperature	Range Re	ative Humidity	Donne	CO2	Dana	e # Occupants
142B		72 - 78	45.5	Range 30% - 60%	781	Rang > Max 700	I
Noticeable Oc	lor No] da	Visible water mage / staining	Visible micro growth?	, , , , , , , , , , , , , , , , , , , ,	ount of mate affected	rial
Ceiling Type	2 x 4 Lay	/ In	No	No		N	lone
Wall Type	Drywal	II	No	No		N	lone
Flooring	Vinyl		No	No		1	None
	Clean	Minor Dust / Debris	Needs Cleaning		Corrective	Action Req	uired
Ceiling	Yes	No	No				
Walls	Yes	No	No				
Flooring	Yes	No	No				
HVAC Supply	Grills Yes	No	No				
HVAC Return	Grills					N/A	
Ceiling at Sup Grills	ply Yes	No	No				
Surfaces in Ro	oom Yes	No	No				
bservations							<u> </u>
Findings: Sto - Nothing remar	rage Area kable found in thwas slightly eleva						
Recommendat	ions:						
Cita Daniel III							
Site Based Maintenance: - Adjust the thermostat to lower the temperature. Continue to monitor condition and initiate a work order for Physical Plant Operations to evaluate the HVAC system if temperature does not improve. - Continue to monitor this location for any signs of microbial growth as well as dust and debris accumulation and clean as appropriate							

IAQ Assessment

2741

Location Number

	Maplew	ood Element	ary School			Evaluat	ion Requested	July 6	5, 2007
Time of Day						E	Evaluation Date	July 6	6, 2007
Outdoor Condi	tions Tem	perature [89.8	Relative H	umidity	63.4	Ambien	t CO2	525
Fish	Temperature F	Range Re	lative Humidity	Range		CO2	Rang	ie #	Occupants
142C		2 - 78	52.7	30% - 60%	,	800	Max 700 >	•	
Noticeable Od	lor No	da	Visible water mage / staining		le micro growth?	bial	Amount of mate affected	erial	
Ceiling Type	2 x 4 Lay	In	No	[No		None		
Wall Type	Drywall		No	[No		N	lone	
Flooring	Vinyl		No	[No			None	
	Clean	Minor Dust / Debris	Needs Cleaning	Corrective Action Pagilired					
Ceiling	No	Yes	Yes			Clea	an as appropria	te	
Walls	No	Yes	Yes			Clea	an as appropria	te	
Flooring	No	Yes	Yes			Cle	ean and sanitize	•	
HVAC Supply	Grills Yes	No	No						
HVAC Return	Grills						N/A		
Ceiling at Sup Grills	ply Yes	No	No						
Surfaces in Ro	oom Yes	No	No						
bservations Findings: Sto	raga Araa								
 Dust build up of Dust and debri 	on ceiling and wa		ol)						
Recommendati		iii (caii oi Lys	OI)						
Site Based Maintenance: - Clean ceiling and walls as appropriate - Clean and sanitize floor - Remove non-approved chemicals (Lysol) - Continue to monitor this location for any signs of microbial growth as well as dust and debris accumulation and clean as appropriate									

IAQ Assessment

2741

Location Number