

# managing risk with responsibility

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February 12, 20	008 Signature on File	
TO:	Ms. Camille Pontillo, Principal <b>Park Springs Elementary School</b>	
FROM:	Edward See, Project Manager Risk Management Department	
SUBJECT:	Indoor Air Quality (IAQ) Assessment FISH 136, 138, 146, 601, 604 and 608	

On February 8, 2008 I conducted an assessment of FISH 136, 138, 146, 601, 604 and 608 at **Park Springs 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.

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.

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 Paul Bach, Project Manager, Facilities and Construction Management Gary Itzkowitz, Broward Teachers Union Roy Jarrett, National Federation of Public and Private 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 As	sessment	Location N	umber	3171	
	Park Springs Eler	mentary School		Evaluation F	Requested	January	31, 2008
Time of Day 2	:30 pm			Evalu	ation Date	Februar	y 8, 2008
Outdoor Conditions	5 Temperature	87.1	Relative Humidity	40	Ambie	nt CO2	449
Fish Temp	erature Range	Relative Humidity	Range	CO2	Ran	ge #	Occupants
138	71.8 <b>72 - 78</b>	51.7	30% - 60%	1195	Max 700	> Ambient	
Noticeable Odor	No	Visible water damage / staining	Visible micro g? growth?	obial Am	ount of mai affected	terial	
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	
Ceiling	Clean Minor / Deb Yes No	oris Cleaning	I	Corrective	Action Re	equired	
Walls	Yes	No					
Flooring	Yes	No					
HVAC Supply Grills	s Yes No	No					
HVAC Return Grills	S Yes No	No					
Ceiling at Supply Grills	Yes	No					
Surfaces in Room	Yes	No					

Findings:

- No issues identified at the time of the assessment

## 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

		IAQ As	sessment	Location Number	3171
	Park Springs El	ementary School		Evaluation Requested	January 31, 2008
Time of Day 2	::30 pm			Evaluation Date	February 8, 2008
Outdoor Conditions	5 Temperatu	re 87.1	Relative Humidity	40 Ambi	ent CO2 449
Fish Temp	erature Range	Relative Humidity	Range	CO2 Ra	nge # Occupants
146	71.3 <b>72 - 78</b>	61.4	30% - 60%	583 Max 700	<b>) &gt; Ambient</b> 3
Noticeable Odor	No	Visible water damage / stainin	Visible micro g? growth?		
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
Ceiling	/ De	r Dust Needs Ebris Cleaning	3	Corrective Action R	equired
Walls	Yes	lo No			
Flooring	Yes	lo No			
HVAC Supply Grills	s Yes	lo No			
HVAC Return Grills	s Yes I	lo No			
Ceiling at Supply Grills	Yes	lo No			
Surfaces in Room	Yes	No No			

Findings:

- Minor microbial growth on toys in cabinet

## Recommendations:

## Site Based Maintenance:

- Wipe down toys 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

			IAQ Asse	essment	Location	Number	3171	
	Park Springs	Elementary S	School		Evaluation	n Requested	January	<sup>,</sup> 31, 2008
Time of Day 2	::30 pm				Eva	aluation Date	Februar	y 8, 2008
Outdoor Conditions	s Tempera	ature 87. <sup>-</sup>	I R	elative Humidity	40	Ambie	nt CO2	449
Fish Temp	erature Rang	je Relativo	e Humidity	Range	CO2	Ran	ge #	Occupants
136	72 <b>72 - 7</b>	<b>8</b> 6	1.9 <b>3</b>	0% - 60%	1217	Max 700	> Ambient	
Noticeable Odor	No	-	ble water e / staining?	Visible micro growth?	bial A	Amount of mat affected	erial	
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	
Ceiling		nor Dust Debris No	Needs Cleaning No		Correcti	ve Action Re	quired	
Cennig								
Walls	Yes	Νο	No					
Flooring	Yes	Νο	No					
HVAC Supply Grills	s Yes	No	Νο					
HVAC Return Grills	s Yes	No	No					
Ceiling at Supply Grills	Yes	No	Νο					
Surfaces in Room	Yes	No	Νο					

Findings:

- Potted plant in room

# Recommendations:

## Site Based Maintenance:

- Remove potted plant from room

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

			IAQ As	sessment	Locatio	on Number	3171	
	Park Spri	ngs Elementa	ry School		Evaluati	on Requested	January	/ 31, 2008
Time of Day	2:30 pm				E	valuation Date	Februa	ry 8, 2008
Outdoor Condition	ons Temj	perature	87.1	Relative Humidity	40	Ambie	nt CO2	449
Fish Te	mperature R	ange Rela	ative Humidity	Range	CO2	Ran	ge #	Occupants
601	74.6 <b>72</b>	2 - 78	51.6	30% - 60%	1419	Max 700	> Ambien	t
Noticeable Odor	r No		Visible water nage / staining	Visible micro growth?		Amount of mat affected	terial	
Ceiling Type	2 x 4 Lay I	n	No	No	[		None	
Wall Type	Drywall/Plas	ter	No	No	[		None	
Flooring	12 x 12 Vin	yl	No	No			None	
Ceiling	Clean Yes	Minor Dust / Debris No	Needs Cleaning No		Correc	tive Action Re	equired	
Walls	Yes	No	No					
Flooring	Yes	No	No					
HVAC Supply G	rills Yes	No	No					
HVAC Return Gr	rills Yes	No	No					
Ceiling at Supply Grills		No	No					
Surfaces in Roo	m Yes	No	No					

Findings:

- No issues identified at the time of the assessment

# 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

			IAQ Asse	essment	Locatio	n Number	3171	
	Park Spring	gs Elementary	School		Evaluatio	on Requested	January 3	31, 2008
Time of Day	2:30 pm				E	valuation Date	February	8, 2008
Outdoor Condition	s Tempe	erature 87	7.1 R	elative Humidity	40	Ambie	nt CO2	449
	perature Ra	nge Relat	ive Humidity	Range	CO2	Ran	ge #C	Occupants
604	72 -	- 78	3	0% - 60%		Max 700	> Ambient	
Noticeable Odor	No		sible water age / staining?	Visible micro growth?	bial	Amount of mat affected	terial	
Ceiling Type	2 x 4 Lay In		No	No			None	
Wall Type	Drywall/Plaste	er	No	No			None	
Flooring	12 x 12 Vinyl		Yes	No	[	Flo	or Seams	
Ceiling	Clean I Yes	Minor Dust / Debris No	Needs Cleaning No		Correc	tive Action Re	quired	
Walls	Yes	No	Νο					
Flooring	Νο	Yes	Yes		See reco	ommendation	below	
HVAC Supply Grill	s Yes	No	Νο					
HVAC Return Grill	s Yes	No	No					
Ceiling at Supply Grills	Yes	Νο	No					
Surfaces in Room	Yes	Νο	No					

Findings:

- Glue coming up between 3 floor tile seams

# Recommendations:

# Site Based Maintenance:

- Clean floor to remove glue from seams

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

		IAQ	Assessment	Locat	ion Number	3171
	Park Springs	Elementary School		Evalua	tion Requested	January 31, 2008
Time of Day 2	:30 pm				Evaluation Date	February 8, 2008
Outdoor Conditions	5 Tempera	ture 87.1	Relative Hu	midity 40	Ambie	nt CO2 449
	erature Rang	e Relative Hum	dity Range	CO2	Ran	ige # Occupants
608 7	71.4 <b>72 - 7</b>	<b>3</b> 57.3	30% - 60%	1155	Max 700	> Ambient 7
Noticeable Odor	No	Visible wa damage / sta		e microbial rowth?	Amount of ma affected	terial
Ceiling Type	2 x 4 Lay In	No	Γ	No		None
Wall Type	Drywall/Plaster	No	Γ	No		None
Flooring	12 x 12 Vinyl	Yes	Ľ	No	· ·	10' x 10'
		nor Dust Nee Debris Clear		Corre	ective Action Re	equired
Ceiling	Yes	No				
Walls	Yes	No				
Flooring	No	Yes	s	See re	commendation	below
HVAC Supply Grills	s Yes	No				
HVAC Return Grills	Yes	No				
Ceiling at Supply Grills	Yes	No				
Surfaces in Room	Yes	No				

Findings:

- Floor tile on South side of room (@10' x 10') closest to the window has elevated moisture content

# 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 cause of elevated moisture content in floor on South side of FISH 608 closest to the window (@10' x 10') and repair as appropriate