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Risk Management Department

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October 20, 2014

Signature on File

TO: Thomas Schroeder, Principal  
**Margate Elementary School**

FROM: Dan Meyer, Project Manager  
Risk Management Department

SUBJECT: Indoor Air Quality (IAQ) Assessment

<u>For Custodial Supervisor Use Only</u>	
<input type="checkbox"/>	Custodial Issues Addressed
<input type="checkbox"/>	Custodial Issues Not Addressed
_____	
_____	

On October 16, 2014, I conducted an assessment at **Margate Elementary School**. Attached are findings and recommendations for further assessment, remediation, or corrective actions needed.

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. In an attempt to separate IAQ issues from general maintenance items, the attached assessment may contain direction for site based staff to generate a work order through COMPASS. Within two weeks a representative from the Custodial/Grounds Department will conduct a follow-up visit to ensure that all site based custodial 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 us at 754-321-1907.

cc: Shelley Meloni, Executive Director, Facilities & Construction  
Mark Dorsett, Manager, Zone 1, Physical Plant Operations Division  
Roy Norton, Manager, Custodial/Grounds, Physical Plant Operations Division  
Aston Henry, Director, Risk Management  
Sonja Coley, Senior Project Manager, Facilities & Construction  
Broward Teachers Union  
Federation of Public Employees

DM/tc  
Enc.

# IAQ Assessment

Margate Elementary

Evaluation Date October 16, 2014

Time of Day 1:30

Outdoor Conditions    Temperature 84.6    Relative Humidity 53.1    Ambient CO2 457

Fish	Temperature	Range	Relative Humidity	Range	CO <sup>2</sup>	Range	# Occupants
<span style="border: 1px solid black; padding: 2px;">161</span>	<span style="border: 1px solid black; padding: 2px;">74</span>	<span style="border: 1px solid black; padding: 2px;">72 - 78</span>	<span style="border: 1px solid black; padding: 2px;">39.4</span>	<span style="border: 1px solid black; padding: 2px;">30% - 60%</span>	<span style="border: 1px solid black; padding: 2px;">507</span>	<b>MAX 700 &gt; Ambient</b>	<span style="border: 1px solid black; padding: 2px;">4</span>
Noticeable Odor		Visible water damage / staining?		Visible microbial growth?		Amount of material affected	
<span style="border: 1px solid black; padding: 2px;">No</span>		<span style="border: 1px solid black; padding: 2px;">Yes</span>		<span style="border: 1px solid black; padding: 2px;">No</span>		<span style="border: 1px solid black; padding: 2px;">2 tiles</span>	
Ceiling	<span style="border: 1px solid black; padding: 2px;">2' X 4' Lay in</span>		<span style="border: 1px solid black; padding: 2px;">Yes</span>	<span style="border: 1px solid black; padding: 2px;">No</span>	<span style="border: 1px solid black; padding: 2px;"></span>		
Walls	<span style="border: 1px solid black; padding: 2px;">Concrete/drywall</span>		<span style="border: 1px solid black; padding: 2px;">No</span>	<span style="border: 1px solid black; padding: 2px;">No</span>	<span style="border: 1px solid black; padding: 2px;"></span>		
Floor	<span style="border: 1px solid black; padding: 2px;">12" x 12" Vinyl</span>		<span style="border: 1px solid black; padding: 2px;">No</span>	<span style="border: 1px solid black; padding: 2px;">No</span>	<span style="border: 1px solid black; padding: 2px;"></span>		
Ceiling Clean	<span style="border: 1px solid black; padding: 2px;">Yes</span>	HVAC Supply Grills Clean	<span style="border: 1px solid black; padding: 2px;">Yes</span>	HVAC Return Grills Clean	<span style="border: 1px solid black; padding: 2px;">Yes</span>		
Walls Clean	<span style="border: 1px solid black; padding: 2px;">Yes</span>	Inside of Supply Duct Clean	<span style="border: 1px solid black; padding: 2px;">Yes</span>	Inside of Return Duct Clean	<span style="border: 1px solid black; padding: 2px;">Yes</span>		
Flooring Clean	<span style="border: 1px solid black; padding: 2px;">Yes</span>	Ceiling at Supply Grills Clean	<span style="border: 1px solid black; padding: 2px;">Yes</span>				
Room Surfaces Clean	<span style="border: 1px solid black; padding: 2px;">Yes</span>						
Trash Removed	<span style="border: 1px solid black; padding: 2px;">Yes</span>	Exhaust Fans Working	<span style="border: 1px solid black; padding: 2px;">Yes</span>	Unapproved Chemicals / Cleaners in Room	<span style="border: 1px solid black; padding: 2px;">Yes</span>		
Signs of Pests	<span style="border: 1px solid black; padding: 2px;">No</span>	Drain Traps Wet	<span style="border: 1px solid black; padding: 2px;">Yes</span>	Air Fresheners in Room	<span style="border: 1px solid black; padding: 2px;">Yes</span>		
Room Cluttered	<span style="border: 1px solid black; padding: 2px;">No</span>	Food if Stored in Room is in Sealed Containers	<span style="border: 1px solid black; padding: 2px;">N/A</span>				
Mechanical Equipment Location	<span style="border: 1px solid black; padding: 2px;">In classroom HVAC unit</span>			Mechanical Room Clean	<span style="border: 1px solid black; padding: 2px;">N/A</span>		
Filters Installed Properly	<span style="border: 1px solid black; padding: 2px;">Yes</span>	Filters Clean	<span style="border: 1px solid black; padding: 2px;">Yes</span>	Inside of HVAC Unit Clean	<span style="border: 1px solid black; padding: 2px;">Yes</span>		
Condensate Pan Clean	<span style="border: 1px solid black; padding: 2px;">N/A</span>	Cooling Coil Clean	<span style="border: 1px solid black; padding: 2px;">Yes</span>				
Fresh Air Intake Location	<span style="border: 1px solid black; padding: 2px;">Ducted to roof-top</span>			Fresh Air Intake Free of Obstruction	<span style="border: 1px solid black; padding: 2px;">Yes</span>		
Pollutant Sources Near Air Intake	<span style="border: 1px solid black; padding: 2px;">No</span>						

**Observations**

**REASSESSMENT - Chilled water insulation has not been replaced. Custodian continues to wipe with Wexside. Roof leaks in classroom - 2 tiles are wet and need to be replaced. Classroom is also used as a storage room. Cardboard boxes need to be removed. Old stains on East wall need to be repaired and painted.**

**Corrective Actions to be Completed by Site Based Staff**

Remove cardboard boxes. Store items in plastic.	<span style="border: 1px solid black; padding: 2px;">▼</span>
Remove non-approved chemicals	<span style="border: 1px solid black; padding: 2px;">▼</span>
Remove non-approved air-fresheners	<span style="border: 1px solid black; padding: 2px;">▼</span>
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**Corrective Actions to be Completed by PPO**

Remove insulation inside HVAC system, microbial	<span style="border: 1px solid black; padding: 2px;">▼</span>
Repair cause of stained ceiling tiles (ROOF)	<span style="border: 1px solid black; padding: 2px;">▼</span>
Evaluate cause of staining on East wall	<span style="border: 1px solid black; padding: 2px;">▼</span>
Repair/replace wall material as necessary	<span style="border: 1px solid black; padding: 2px;">▼</span>
	<span style="border: 1px solid black; padding: 2px;">▼</span>
	<span style="border: 1px solid black; padding: 2px;">▼</span>
<b>NOTE: Previous assessment conducted in April 2014 and WO EQ08001 generated for insulation</b>	<span style="border: 1px solid black; padding: 2px;">▼</span>



