

managing risk with responsibility

	ement Department	Fax: 754 321-1900
December 16	6, 2014 Signature on File	For Custodial Supervisor Use Only
TO:	Robert Becker, Principal Embassy Creek Elementary School	Custodial Issues Addressed Custodial Issues Not Addressed
FROM:	Richard Rosa, Project Manager Risk Management Department	
SUBJECT:	Indoor Air Quality (IAQ) Assessment	

On November 24, 2014, I conducted an assessment at Embassy Creek 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

RR/tc Enc.

IAQ Assessment

Embassy Creek Elementary

Evaluation Date November 24, 2014

Time of Day

1:15

Outdoor Conditions	Temperatur	e 89.2 Relativ	ve Humidity 6	Ambient CO2	140
	erature Range 2.1 72 - 7 8		Range 0% - 60%	CO ² Range # O 1183 MAX 700 > [Ambient	ccupants
Noticeable Odor	No	Visible water damage / staining?	Visible micro growth?	bial Amount of material affected	
	Lay in	No	No		
	ackboard 2" Vinyl	No No	No No		
Ceiling Clean	Yes	HVAC Supply Grills Clean	Yes	HVAC Return Grills Clean	Yes
Walls Clean [Yes	Inside of Supply Duct Clean	Yes	Inside of Return Duct Clean	Yes
Room Surfaces [Yes	Ceiling at Supply Grills Clean	Yes		
Trash Removed [N/A	Exhaust Fans Working		Unapproved Chemicals / Cleaners in Room	No
Signs of Pests Room Cluttered	No N/A	Drain Traps Wet Food if Stored in Room is in Sealed Containers		Air Fresheners in Room	No
Mechanical Equipme	nt Location Hu	ıng above drop ceiling		Mechanical Room Clean	N/A
Filters Installed Prope		Filters Clean	N/A	Inside of HVAC Unit Clean	N/A
Condensate Pan C	lean N/A	Cooling Coil Clean	N/A		
Fresh Air Intake Locat Pollutant Sources Nea Intake	_	pof top		▼ Fresh Air Intake Free of Obstruction	Yes
Observations					
Corrective Actions t	o ho Complete	hy Sita Basad Staff	0	Astiona to be Committee II. 2	
Corrective Actions to	o ne complete	d by Site Based Staff ▼		e Actions to be Completed by P te cleaning condensate pan	PO ▼
		▼		IVAC to reduce humidity level uate cleaning of HVAC coil	▼
		▼	Evalu	date cleaning of TVAC COIL	▼
		▼			▼
		▼			▼
		▼			<u>,</u>

IAQ Assessment

Embassy Creek Elementary Eva	aluation Dat	e November 24, 201	4 Time of Day 1:15	
Outdoor Conditions Temperature 89.2	Relative	Humidity 63.7	Ambient CO2 440]
Fish Temperature Range Relative Human 201 74.8 72 - 78 47.8	 i	Range <u>co</u> % - 60 % 126		ants
Noticeable Odor No Visible water d	•	Visible microbial growth?	Amount of material affected	
Ceiling 2' X 4' Lay in Yes		No	4 stained ceiling tiles	\Box
Walls Drywall/Tackboard No		No		$\neg 1$
Figure 40" visual				二 Ⅰ
Floor 12" x 12" Vinyl No		No		믜
Ceiling Clean No HVAC S Grills Cl		Yes	HVAC Return Grills Clean	s
Walls Clean Yes Inside o	of Supply	Vaa	Inside of Return	٦ I
Flooring Clean Yes Duct Cle	ean	Yes	Duct Clean Ye	s
Room Surfaces No Ceiling a Clean Grills Cl	at Supply lean	Yes		
Trash Removed Yes Exhaust Fans	s Working	No	Unapproved Chemicals /	$\neg \mid$
Signs of Pests No Drain 1	Traps Wet	N/A	Cleaners in Room	<u>ا</u> ا
Room Cluttered Yes Food if Stored in Sealed Conta	n Room is	N/A	Air Fresheners in Room	0
Mechanical Equipment Location FISH 206			Mechanical Room Clean No	0
Filters Installed Properly Yes Filter	ers Clean	Yes	Inside of HVAC Unit Clean Ye	s
Condensate Pan Clean Yes Cooling C	Coil Clean	No		
Fresh Air Intake Location Roof top		▼	Fresh Air Intake Free Of Obstruction	s
Pollutant Sources Near Air Intake		▼	or obstruction	
Observations				
slightly elevated CO2 Instructor complains of classroom being stuffy and v walls in the air handler room due to the room being u				
Corrective Actions to be Completed by Site Based S	Staff_	Corrective Action	ons to be Completed by PPO	
Replace stained ceiling tiles after repairs	▼	Repair HVAC	to reduce humidity level	▼
Coordinate a schedule between HFSP and classroon	n▼	Evaluate and repair	cause of stained ceiling tiles	▼
classroom Instructor to clean properly due to clutter	<u>r</u> ▼		normal function of exhaust fan	$\overline{}$
Clean surfaces in mechanical room	 ▼		ning of the HVAC coil in 206	 ▼
	▼	Evaluate supply d	lamper is in normal position	▼

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Corrective Actions to be Completed by 110	
Repair HVAC to reduce CO2 levels	▼
Evaluate the cleaning of the HVAC coil in 206	▼
Evaluate supply damper is in normal position	▼
	▼
	▼
	▼
	▼
	▼

constant / to no	
Coordinate a schedule between HFSP and	▼
classroom Instructor to clean properly due to clutter	▼
Replace stained ceiling tile after repair	▼
Clean surfaces in mechanical room	▼
	▼
	▼
	▼
	▼

Evaluate and repair cause of stained ceiling tiles	▼
Evaluate the cleaning of the HVAC coil in 206	▼
	▼
	▼
	▼
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IAQ Assessment

Embassy Creek Elementary Evaluation Date November 24, 2014 Time of Day 1:00
Outdoor Conditions Temperature 89.2 Relative Humidity 63.7 Ambient CO2 440
Fish Temperature Range Relative Humidity Range CO² Range # Occupants 215 73.4 72 - 78 61.2 30% - 60% 1311 MAX 700 > Ambient 20
Noticeable Odor No Visible water damage / staining? Visible microbial growth? Mo
Ceiling Clean Yes HVAC Supply Grills Clean Yes HVAC Return Grills Clean Yes Walls Clean Yes Inside of Supply Duct Clean Yes Inside of Return Duct Clean Yes Room Surfaces Clean Grills Clean Yes Inside of Return Duct Clean Yes Ceiling at Supply Grills Clean Yes
Trash Removed Yes Exhaust Fans Working Yes Unapproved Chemicals / Cleaners in Room Signs of Pests No Drain Traps Wet N/A Room Cluttered Yes Food if Stored in Room is in Sealed Containers N/A Unapproved Chemicals / Cleaners in Room No No No No No No No No No
Mechanical Equipment Location FISH 206 Mechanical Room Clean No Filters Installed Properly Yes Filters Clean Yes Inside of HVAC Unit Clean Yes Condensate Pan Clean Yes Cooling Coil Clean No
Fresh Air Intake Location Pollutant Sources Near Air Intake Roof top Fresh Air Intake Free of Obstruction Yes
Observations
Slightly elevated CO2 Dust and debris on walls in the air handler room due to the room being used as a return air plenum, needs to be cleaned.
Corrective Actions to be Completed by Site Based Staff Corrective Actions to be Completed by PPO
Coordinate a schedule between HFSP and ▼ Repair HVAC to reduce CO2 levels ▼

Coordinate a schedule between HFSP and	▼
classroom Instructor to clean properly due to clutter	▼
Clean surfaces in mechanical room	▼
	▼
	▼
	▼
	▼
	▼

Repair HVAC to reduce CO2 levels	▼
Repair HVAC to reduce humidity level	▼
Evaluate the cleaning of the HVAC coil in 206	▼
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