

managing risk with responsibility

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February 28, 2007

Signature on File

TO: Ms. Maria Bach, Principal

Challenger Elementary School

FROM: Aston A. Henry, Jr., Supervisor

Risk Management Department

SUBJECT: Indoor Air Quality (IAQ) Assessment

Portable 74 and 141

On February 20, 2007 I conducted an assessment of Portable 74 and 141 at **Challenger 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.

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. Harry LaCava, Area Superintendent

Willie Dudley, Area Director

Jeffrey S. Moquin, Director, Risk Management

Dr. Cheryl Cendan, Principal, Millennium Middle School

Charles Ricks, Project Manager, Facilities and Construction Management

Gary Itzkowitz, Broward Teachers Union

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

AAH/tc Enc.

	Challe	enger Elementar	y School		Evaluati	ion Requested	February	12, 2007
Time of Day	1:45 pm]			E	Evaluation Date	February	20, 2007
Outdoor Condi	itions Ten	nperature 7	9.4 F	Relative Humidit	ty 41	Ambie	nt CO2	393
Fish	Temperature	Range Relat	ive Humidity	Range	CO2	Ran	ige # C	Occupants
P-74	66.6	72 - 78	39.9	30% - 60%	3687	Max 700	> Ambient	24
Noticeable Oc	dor Yes	_	isible water age / staining?	Visible mic growth		Amount of ma	terial	
Ceiling Type	Gypsum B	oard	No	No] [None	
Wall Type	Gypsum B	oard	Yes]	East and West wall		
Flooring	Tile		No	No]		None	
	Clean	Minor Dust / Debris	Needs Cleaning		Correc	ctive Action Re	equired	
Ceiling	Yes	No	No					
Walls	No	Yes	Yes		Repair/	replace wall m	aterial	
Flooring	Yes	No	No					
HVAC Supply	Grills No	Yes	Yes		Clean witl	h Wexcide disi	infectant	
HVAC Return	Grills					N/A		
Ceiling at Sup Grills	ply Yes	No	No					
Surfaces in Ro	oom Yes	No	No					
bearvations								

IAQ Assessment

3771

Location Number

Observations

Findings:

- Heavy dust and debris on A/C filters in both stand alone units
- Elevated moisture content in the entire East and West walls
- Dust and debris on HVAC supply grills
- Temperature was low and CO2 level was elevated at the time of the assessment
- Hole in ceiling

-Recommendations:

Site Based Maintenance:

- Remove and replace A/C filters in both stand alone units. Ensure that filters are changed regularly.
- Clean HVAC supply grills 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

Physical Plant Operations:

- Evaluate cause of elevated moisture content in the entire East and West walls and repair as appropriate. Remove and replace wall material as appropriate.
- Evaluate HVAC for proper operation and adjust to increase temperature and lower CO2 level
- Repair hole in ceiling

	Cha	ıllenger Elem	entary School		Evaluation	on Requested	February 12, 2007
Time of Day	1:30 pm				E	valuation Date	February 20, 2007
Outdoor Condi	itions T	emperature	79.4	Relative Humidit	y 41	Ambie	nt CO2 393
Fish	Temperature	Range	Relative Humidity	y Range	CO2	Ran	ge # Occupants
P-141	71.8	72 - 78	43.7	30% - 60%	3005	Max 700	> Ambient 21
Noticeable Oc	lor Yes		Visible water damage / stainin	Visible mici g? growth		Amount of mat affected	erial
Ceiling Type	2 x 4 L	ay In	No	No			None
Wall Type	Drywall		No	No		None	
Flooring	Tile	;	No	No	[None
	Clean	Minor D / Debr		g	Correc	tive Action Re	quired
Ceiling	Yes	No	No				
Walls	Yes	No	No				
Flooring	Yes	No	No				
HVAC Supply	Grills No	Yes	Yes		Clean with	n Wexcide disi	nfectant
HVAC Return	Grills]			N/A	
Ceiling at Sup Grills	ply Yes	No	No				
Surfaces in Ro	oom Yes	No	No				
bservations							
			ming from undern		Γeacher th	inks that cats m	nay be living under the

IAQ Assessment

3771

Location Number

- Heavy dust and debris on A/C filters in both stand alone units
- Dust and debris on HVAC supply grills
- CO2 level was elevated at the time of the assessment

Recommendations:

Site Based Maintenance:

- Remove and replace A/C filters in both stand alone units. Ensure that filters are changed regularly.
- Clean HVAC supply grills 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

Physical Plant Operations:

- Inspect underneath the portable for rodents/animals. Finish installation of lattice to prevent rodents/animals from living underneath the portable.
- Evaluate HVAC for proper operation and adjust to lower CO2 level