



Division

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Signature on File

December 4, 2006

TO:	Mr. Daniel Boegli, Principal Sheridan Technical Center
FROM:	Robert J. Krickovich, Coordinator, LEA Facilities and Construction Management, Environmental

SUBJECT: Indoor Air Quality (IAQ) Assessment FISH 110, 111, 113 and 209/210

On November 20, 2006 I conducted an assessment of FISH 110, 111, 113 and 209/210 at **Sheridan Technical Center**. This evaluation included observations of the flooring system, ceiling tiles, false ceiling plenum, environmental surfaces, interior and exterior walls, and the accessible ventilation equipment. 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 754-321-1638.

cc: Dr. Harry LaCava, Area Superintendent
Fran Bolden, Area Director
Jeffrey S. Moquin, Director, Risk Management
Joe DeLillo, Project Manager, Facilities and Construction Management
Diane Watts, Broward Teachers Union
Mark Dorsett, Manager 1, Physical Plant Operations Division, Zone 1
Roy Norton, Manager Custodial/Grounds, Physical Plant Operations Division

RK/tc Enc.

			IAQ As	sessment	Location Number	- 1051
	Sh	eridan Techni	cal Center		Evaluation Reque	sted November 14, 2006
Time of Day	12:35 pm				Evaluation	Date November 20, 2006
Outdoor Condition	ns Tem	perature	65.8	Relative Humidity	44.6 A	mbient CO2 500
Fish Tem	perature F	Range Re	lative Humidity	Range	CO2	Range # Occupants
110	72 7	2 - 78	47.3	30% - 60%	1386 Ma x	c 700 > Ambient 18
Noticeable Odor	No	da	Visible water mage / staining	Visible micro ? growth?		of material ected
Ceiling Type	2 x 4 Lay	In	Yes	No	4 stain	ed, 1 with visible growth
Wall Type	Plaster		No	No		None
Flooring	12 x 12 Vin	yl	No	No		None
	Clean	Minor Dust / Debris	Needs Cleaning		Corrective Action	on Required
Ceiling	Νο	Yes	Yes	R	emove and replac	ce ceiling tiles
Walls	Yes	No	No			
Flooring	Yes	Νο	Νο			
HVAC Supply Gri	lls Yes	No	No			
HVAC Return Gri	lls Yes	No	No			
Ceiling at Supply Grills					N/A	
Surfaces in Room	Yes	No	No			

Findings:

- Ceiling tiles along exterior wall are stained

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:

- Remove and replace all ceiling tiles along exterior wall

- Evaluate roof of buildings 1, 3 and 12 and report back to Bob Krickovich

Facilities and Construction Management:

- Roof of buildings 1, 3 and 12 are in poor condition. Will await report from PPO if roofs can be repaired or will need to be replaced.

- FISH 461 in building 12 is in poor condition - plaster ceiling is severely water damaged

- FISH 462 in building 12 - EVERY ceiling tile is water stained and need to be replaced

			IAQ Ass	sessment	Location I	Number	1051	
	S	Sheridan Techi	nical Center		Evaluation	Requested	Novembe	er 14, 2006
Time of Day	12:35 pm				Eva	luation Date	Novembe	er 20, 2006
Outdoor Condi	itions Te	mperature	65.8	Relative Humidity	/ 44.6	Ambie	nt CO2	500
Fish	Temperature	Range R	elative Humidity	Range	CO2	Rar	nge #	Occupants
111	71	72 - 78	45.7	30% - 60%	657	Max 700	> Ambient	3
Noticeable Oc	lor No	d	Visible water amage / staining	Visible micr ? growth		mount of ma affected	terial	
Ceiling Type	2 x 4 La	y In	Yes	No		20 c	eiling tiles	
Wall Type	Plaste	er	No	No			None	
Flooring	12 x 12 \	/inyl	No	No			None	
	Clean	Minor Dus / Debris	st Needs Cleaning		Correctiv	e Action Re	equired	
Ceiling	No	Yes	Yes	F	emove and	replace ce	iling tiles	
Walls	Yes	No	No					
Flooring	Yes	No	No					
HVAC Supply	Grills Yes	No	No					
HVAC Return	Grills No	Yes	Yes	Clear	with Wexc	ide disinfec	tant soluti	on
Ceiling at Sup Grills	ply Yes	No	No					
Surfaces in Ro	oom Yes	No	No					

Findings:

- 20 stained ceiling tiles

- Flooring and wall at exterior door vision panel near door to FISH 110B is water stained

- Dust and debris on HVAC return grills
- Temperature was low at the time of the assessment

Recommendations:

Site Based Maintenance:

- Clean HVAC return grills with Wexcide disinfectant solution

- Adjust thermostat to increase temperature

- 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:

- Remove and replace ceiling tiles as appropriate
- Evaluate roof of buildings 1, 3 and 12 and report back to Bob Krickovich

Facilities and Construction Management:

- Roof of buildings 1, 3 and 12 are in poor condition. Will await report from PPO if roofs can be repaired or will need to be replaced.

			IAQ As	sessment	Location Nu	umber	1051	
	Sh	eridan Technica	al Center		Evaluation R	equested	Novembe	er 14, 2006
Time of Day	12:35 pm				Evalu	ation Date	Novembe	er 20, 2006
Outdoor Condit	tions Ten	nperature 6	5.8	Relative Humidit	y 44.6	Ambie	nt CO2	500
		Range Relat	tive Humidity	Range	CO2	Ran	ge #	Occupants
113	70.4 7	/2 - 78	45.3	30% - 60%	657	Max 700	> Ambient	20
Noticeable Odd	or No		/isible water age / staining	Visible mic g? growth	?	ount of mat affected		
Ceiling Type	2 x 4 Lay	In	Yes	Yes	20) stained, 1	with visible	growth
Wall Type	Plaster		Yes	No		At exterior	door vision	panel
Flooring	12 x 12 Vir	ıyl	Yes	No		At exterior	door vision	panel
	Clean	Minor Dust / Debris	Needs Cleaning	1	Corrective	Action Re	equired	
Ceiling	Νο	Yes	Yes	F	Remove and r	eplace cei	ling tiles	
Walls	No	Yes	Yes		Repair/replace	ce as appr	opriate	
Flooring	No	Yes	Yes		Repair/replace	ce as appr	opriate	
HVAC Supply C	Grills Yes	No	No					
HVAC Return G	Grills No	Yes	Yes	Clear	n with Wexcid	le disinfec	tant soluti	on
Ceiling at Supp Grills	oly Yes	No	No					
Surfaces in Ro	om Yes	No	No					

Findings:

- 20 stained ceiling tiles and 1 ceiling tile with visible microbial growth
- Flooring and wall at exterior door vision panel near door to FISH 110B is water stained
- Dust and debris on HVAC return grills
- Temperature was low at the time of the assessment

Recommendations:

Site Based Maintenance:

- Clean HVAC return grills with Wexcide disinfectant solution
- Adjust thermostat to increase temperature

- 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:

- Remove and replace ceiling tiles as appropriate
- Evaluate and repair cause of water damage at exterior door vision panel (vision panel has rust stains)
- Evaluate roof of buildings 1, 3 and 12 and report back to Bob Krickovich

Facilities and Construction Management:

- Roof of buildings 1, 3 and 12 are in poor condition. Will await report from PPO if roofs can be repaired or will need to be replaced.

			IAQ As:	sessment	Location N	√umber	1051	
	Sh	eridan Technic	cal Center		Evaluation	Requested	Novembe	er 14, 2006
Time of Day	12:35 pm				Eval	luation Date	Novembe	er 20, 2006
Outdoor Conditi	ons Terr	perature	65.8	Relative Humidit	y 44.6	Ambie	nt CO2	500
		Range Rel	lative Humidity	Range	CO2	Ran	nge #	Occupants
210	69.1 7	2 - 78	43.3	30% - 60%	552	_ Max 700	> Ambient	3
Noticeable Odo	or No		Visible water mage / staining	Visible mici growth		mount of ma affected	terial	
Ceiling Type	2 x 4 Lay	In	Yes	No		20 Ceiling Ti	les at Supp	ly Grills
Wall Type	Plaster		Νο	No			None	
Flooring	12 x 12 Vir	iyl	No	No			None	
	Clean	Minor Dust / Debris	Needs Cleaning		Correctiv	e Action Re	equired	
Ceiling	No	Yes	Yes	F	Remove and	replace cei	iling tiles	
Walls	Yes	No	No					
Flooring	Yes	No	No					
HVAC Supply G	Grills No	Yes	Yes	Clear	n with Wexc	ide disinfec	tant soluti	on
HVAC Return G	rills No	Yes	Yes	Clear	n with Wexc	ide disinfec	tant soluti	on
Ceiling at Supp Grills	ly No	Yes	Yes	F	Remove and	replace cei	iling tiles	
Surfaces in Roc	om Yes	No	No					

Findings: FISH 209 and 210

- FISH 209 and 210 are separated by a folding partition wall that is blocked open so should be treated as one room
- 20 stained ceiling tiles around supply grills are heavily stained with visible microbial growth
- Dust and debris on HVAC supply and return grills
- Temperature was low at the time of the assessment

Recommendations:

Site Based Maintenance:

- Clean HVAC supply and return grills with Wexcide disinfectant solution
- Adjust thermostat to increase temperature

- 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:

- FISH 209 and 210 are separated by a folding partition wall that is blocked open so should be treated as one room. Remove and replace all ceiling tiles around supply grills

- Evaluate and repair insulation on supply ducts as necessary

- Evaluate roof of buildings 1, 3 and 12 and report back to Bob Krickovich

Facilities and Construction Management:

- Roof of buildings 1, 3 and 12 are in poor condition. Will await report from PPO if roofs can be repaired or will need to be replaced.