

Aston A. Henry, Supervisor Risk Management Department

managing risk with responsibility

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 For Custodial Supervisor Use Only

 Custodial Issues Addressed

 Custodial Issues Not Addressed

November 9, 20	09 Signature on File
TO:	Mrs. Tracy Lockhart-Talley, Principal Drew Resource Center
FROM:	Edward See, Project Manager Risk Management Department
SUBJECT:	Indoor Air Quality (IAQ) Assessment FISH 401, 402, 403 and 404

On October 8, 2009 I conducted an assessment of FISH 401, 402, 403 and 404 at **Drew Resource 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. 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.

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 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 754-321-1900.

cc: Dr. Leontine Butler, Area Superintendent Dr. Desmond Blackburn, Area Director Jeffrey S. Moquin, Executive Director, Support Operations Aston Henry, Supervisor, Risk Management Robert Goode, Project Manager, Facilities and Construction Management Lynn Cavall, Broward Teachers Union Roy Jarrett, Federation of Public 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 Ass	sessment	Location Number	0301
		Drew Resourc	e Center		Evaluation Requested	October 5, 2009
Time of Day	8:30 am				Evaluation Date	October 8, 2009
Outdoor Cond	itions Ten	nperature	83.8	Relative Humidity	69.2 Ambie	ent CO2 448
Fish	Temperature	Range Rela	tive Humidity	Range	CO2 Rar	nge # Occupants
401	73.4	/2 - 78	67.1	30% - 60%	454 Max 700	> Ambient 2
Noticeable Oc	dor No		Visible water hage / staining	Visible micro ? growth?	bial Amount o material affe	=
Ceiling Type	Popcori	n	Yes	No	light bra	acket and panel
Wall Type	Drywal		No	No		None
Flooring	12 x 12 Vi	nyl	No	No		None
	Clean	Minor Dust / Debris	Needs Cleaning		Corrective Action R	equired
Ceiling	No	Yes	Yes		Evaluate and Rep	air
Walls	Yes	Νο	No			
Flooring	Yes	Νο	No			
HVAC Supply	Grills Yes	No	No			
HVAC Return	Grills Yes	Νο	No			
Ceiling at Sup Grills	oply Yes	No	No			
Surfaces in R	oom No	Yes	Yes		Clean as appropr	iate

Findings:

- Visible condensation on HVAC supply grills
- Humidity level was elevated
- 2 potted plants in room
- Non-approved chemicals (air freshener)
- Observed pests in room (ants)
- Stained ceiling material at light bracket appears to active leak coming from light bracket and old drilled holes
- Excessive dust build up on cabinets

Site Based Maintenance:

- Remove non-approved chemicals (air freshener) from room
- Remove potted plants from room. Soil is a source of microbial growth.
- Contact Pest Control at 754-321-4600
- Thoroughly clean cabinets to remove dust
- 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 HVAC system for proper operation and repair as appropriate to lower humidity
- Evaluate cause of staining on ceiling and repair as appropriate. Repair/replace ceiling material as necessary.

			IAQ Ass	sessment	Location Number	0301
		Drew Resource	e Center		Evaluation Requested	October 5, 2009
Time of Day	8:30 am				Evaluation Date	October 8, 2009
Outdoor Condi	itions Ten	nperature 8	33.8	Relative Humidity	69.2 Ambie	ent CO2 448
Fish	Temperature	Range Relat	tive Humidity	Range	CO2 Rar	nge # Occupants
402	72.7	/2 - 78	67.2	30% - 60%	642 Max 700	> Ambient 21
Noticeable Od	lor No	-	/isible water age / staining'	Visible microl ? growth?	bial Amount o material affec	-
Ceiling Type	Popcor	n	Yes	No	1 s	quare foot
Wall Type	Drywal		No	No		None
Flooring	12 x 12 Vi	nyl	No	No		None
	Clean	Minor Dust / Debris	Needs Cleaning		Corrective Action Re	equired
Ceiling	No	Yes	Yes		Evaluate and Rep	air
Walls	Yes	No	No			
Flooring	No	Yes	Yes		Clean and Saniti	ze
HVAC Supply	Grills Yes	No	No			
HVAC Return	Grills Yes	No	No			
Ceiling at Sup Grills	ply Yes	No	No			
Surfaces in Ro	oom No	Yes	Yes		Clean as appropri	ate

- Findings:
- Humidity level was elevated
- Dust and debris on flooring
- Observed pests in room (ants)
- Visible staining on ceiling at file cabinet (@1 square foot)
- Excessive clutter around HVAC return
- Dust impaction on ceiling

Site Based Maintenance:

- Thoroughly clean and sanitize floor
- Contact Pest Control at 754-321-4600
- Remove clutter from around HVAC return
- Clean ceiling to remove dust

- 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 HVAC system for proper operation and repair as appropriate to lower humidity
- Evaluate cause of staining on ceiling and repair as appropriate. Repair/replace ceiling material as necessary.

			IAQ Ass	sessment	Location Number	0301
		Drew Resourc	e Center		Evaluation Requested	October 5, 2009
Time of Day	8:30 am]			Evaluation Date	October 8, 2009
Outdoor Cond	itions Ter	nperature	33.8	Relative Humidity	69.2 Ambie	ent CO2 448
Fish	Temperature	Range Rela	tive Humidity	Range	CO2 Ran	nge # Occupants
403	75	72 - 78	71	30% - 60%	608 Max 700	> Ambient 23
Noticeable Oc	lor No		/isible water hage / staining?	Visible microl ? growth?	bial Amount o material affec	-
Ceiling Type	Popcor	n	No	No		None
Wall Type	Tackabl	е	Yes	No	E	ast wall
Flooring	12 x 12 V	inyl	No	No		None
	Clean	Minor Dust / Debris	Needs Cleaning		Corrective Action Re	equired
Ceiling	No	Yes	Yes		Clean as appropri	ate
Walls	No	Yes	Yes		Evaluate and Rep	air
Flooring	Yes	No	No			
HVAC Supply	Grills Yes	Νο	No			
HVAC Return	Grills No	Yes	Yes	Cl	ean with Wexcide dis	infectant
Ceiling at Sup Grills	oply				N/A	
Surfaces in Ro	oom No	Yes	Yes		Clean as appropri	ate

Findings:

- Dust impaction on ceiling above A/C
- Humidity level was elevated
- Visible staining on East wall adjacent to A/C
- Dust and debris on HVAC return grills
- Dust build up on environmental surfaces

- HVAC return grill damaged

- Baseboard in Southeast corner of room is loose

Site Based Maintenance:

- Clean ceiling to remove dust
- Clean HVAC return grills with Wexcide disinfectant solution
- Thoroughly clean environmental surfaces

- Contact COMPASS to generate a work order to repair/replace HVAC return grill and repair baseboard in Southeast corner of room.

- 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 HVAC system for proper operation and repair as appropriate to lower humidity

- Evaluate cause of staining on East wall adjacent to A/C and repair as appropriate. Repair/replace wall material as necessary.

			IAQ Ass	sessment	Location Number	0301
		Drew Resourc	e Center		Evaluation Requested	October 5, 2009
Time of Day	8:30 am]			Evaluation Date	October 8, 2009
Outdoor Condi	itions Ter	nperature	83.8	Relative Humidity	69.2 Ambie	ent CO2 448
Fish	Temperature	Range Rela	tive Humidity	Range	CO2 Rar	nge # Occupants
404	71.7	72 - 78	71.5	30% - 60%	554 Max 700	> Ambient 21
Noticeable Od	lor No		Visible water hage / staining	Visible microl ? growth?	bial Amount o material affec	-
Ceiling Type	Popcor	n	No	No		None
Wall Type	Tackable/D	ywall	Yes	No		/arious
Flooring	12 x 12 V	inyl	No	No		None
	Clean	Minor Dust / Debris	Needs Cleaning		Corrective Action Re	equired
Ceiling	Yes	No	No			
Walls	No	Yes	Yes		Evaluate and Rep	air
Flooring	Yes	No	No			
HVAC Supply	Grills Yes	Νο	No			
HVAC Return	Grills No	Yes	Yes	Cl	ean with Wexcide dis	infectant
Ceiling at Sup Grills	oply				N/A	
Surfaces in Ro	oom No	Yes	Yes		Clean as appropri	ate

Findings:

- Visible condensation on HVAC supply grills
- Humidity level was elevated
- Visible staining on wall
- Dust and debris on HVAC return grills
- Dust build up on environmental surfaces

Site Based Maintenance:

- Clean HVAC return grills with Wexcide disinfectant solution
- Thoroughly clean environmental surfaces
- 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 HVAC system for proper operation and repair as appropriate to lower humidity
- Evaluate cause of staining on walls and repair as appropriate. Repair/replace wall material as necessary.