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November 9, 2006

**Signature on File** 

ГО:	Ms. Gladys Donovan, Principal
	Driftwood Elementary School

- FROM: Robert J. Krickovich, Coordinator, LEA Facilities and Construction Management, Environmental Division
- SUBJECT: Indoor Air Quality (IAQ) Assessment FISH 901 and 902

On October 17, 2006 Richard Rosa conducted an assessment of FISH 901 and 902 at **Driftwood 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 754-321-1638.

 cc: Sam Gregg, Area Superintendent Margaret Underhill, Area Director Jeffrey S. Moquin, Director, Risk Management Bob Sharps, 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 Ass	sessment	Locatio	on Number	0721	
	Driftwoo	od Elementa	ary School		Evaluat	ion Requested	October	16, 2006
Time of Day 12	2:10 pm				I	Evaluation Date	October	17, 2006
Outdoor Conditions	6 Tempe	erature	88.8	Relative Humid	lity 53.2	Ambie	nt CO2	400
Fish Temp	erature Ra	nge Rel	ative Humidity	Range	CO2	Ran	ge #	Occupants
901	72.2 <b>72</b> -	78	57.8	30% - 60%	857	Max 700	> Ambient	21
Noticeable Odor	No		Visible water mage / staining	Visible m ? grow		Amount of mat affected	terial	
Ceiling Type	2 x 2 Lay In		No	No			None	
Wall Type	Drywall		No	No			None	
Flooring	12 x 12 Vinyl		No	No			None	
	Clean I	Minor Dust / Debris	Needs Cleaning		Corre	ctive Action Re	quired	
Ceiling	Yes	No	No					
Walls	Yes	No	No					
Flooring	Yes	No	No					
HVAC Supply Grills	s Yes	No	No					
HVAC Return Grills	s Yes	No	No					
Ceiling at Supply Grills	Yes	No	No					
Surfaces in Room	Yes	No	No					

## Observations

### Findings:

- Room is being used as a science classroom and there are live plants and living organic matter (science projects)

- Cabinets on North wall are damaged

- Exterior stucco cracks under grade

### Recommendations:

## Site Based Maintenance:

- Clean elevated surfaces throughout the room to remove dust

Identify landscape sprinklers that are hitting the exterior of the building and redirect them away from the building
 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 courtyard for drainage issues. Recommend regrading the courtyard to provide adequate drainage.

- Remove baseboard on cabinets and evaluate for damaged wood. Repair/replace damaged wood cabinets on North wall as appropriate.

- Repair exterior stucco cracks under grade

			IAQ As	sessment	Location N	lumber	0721	
Driftwood Elementary School					Evaluation	Requested	October	16, 2006
Time of Day	12:40 pm				Eval	uation Date	October	17, 2006
Outdoor Condi	tions Tem	perature 8	8.8	Relative Humidity	53.2	Ambie	nt CO2	400
Fish 7	Femperature	Range Rela	tive Humidity	Range	CO2	Ran	ige #	Occupants
902	71.7 <b>7</b>	2 - 78	58.8	30% - 60%	813	Max 700	> Ambient	22
Noticeable Od	or No		/isible water age / staining	Visible micro growth?	obial Ar	nount of ma affected	terial	
Ceiling Type	2 x 2 Lay	In	No	No			None	
Wall Type	Drywall		No	No			None	
Flooring	12 x 12 Vin	yl	No	No			None	
	Clean	Minor Dust / Debris	Needs Cleaning		Corrective	e Action Re	equired	
Ceiling	Yes	No	No					
Walls	Yes	No	No					
Flooring	Yes	No	No					
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 a	is appropri	ate	

# Observations

## Findings:

- Minor dust build up on elevated surfaces
- Water is puddling on the floor of the classroom
- Elevated moisture content in baseboard between windows
- Cabinets on North wall are damaged
- Exterior stucco cracks under grade

### Recommendations:

### Site Based Maintenance:

- Clean elevated surfaces throughout the room to remove dust
- Identify landscape sprinklers that are hitting the exterior of the building and redirect them away from the building
  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 courtyard for drainage issues causing puddling on classroom floor. Recommend regrading the courtyard to provide adequate drainage.

- Remove and replace damaged baseboard between windows (approximately 12 linear feet)
- Remove and repair/replace damaged wood cabinets on North wall
- Repair exterior stucco cracks under grade