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June 9, 2006

Signature on File

TO: Ms. Rebecca Dahl, Principal
Sunrise Middle School

FROM: Robert J. Krickovich, Coordinator, LEA
Facilities and Construction Management, Environmental Division

SUBJECT: Indoor Air Quality (IAQ) Assessment
FISH 430, 719 and 720

On June 8, 2006 I conducted an assessment of FISH 430, 719 and 720 at **Sunrise Middle School**. The assessment consisted of a reevaluation walkthrough of the previously identified areas to assess the current condition of the location with regard to indoor air quality. This assessment included reviewing previously generated work orders as well as observations of the areas of concern as stated in the IAQ Assessment performed by Alan Black on March 14, 2006. Attached are the findings of this assessment along with recommendations for further assessment, remediation, or corrective actions, if 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.

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. Verda Farrow, Area Superintendent
Dr. Roberta Insel, Area Director
Jeffrey S. Moquin, Director, Risk Management
Matthew Decker, Project Manager, Facilities and Construction Management
Jerrod Neal, 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 Assessment

Sunrise Middle School

Location Number 0251
 Evaluation Requested June 7, 2006
 Evaluation Date June 8, 2006

Time of Day 9:00 am

Outdoor Conditions Temperature 81.7 Relative Humidity 77.9 Ambient CO2 445

Fish	Temperature	Range	Relative Humidity	Range	CO2	Range	# Occupants
430	74.3	72 - 78	66.4	30% - 60%	464	Max 700 > Ambient	3
Noticeable Odor		Visible water damage / staining?		Visible microbial growth?		Amount of material affected	
Ceiling Type		Visible water damage / staining?		Visible microbial growth?		Amount of material affected	
Wall Type		Visible water damage / staining?		Visible microbial growth?		Amount of material affected	
Flooring		Visible water damage / staining?		Visible microbial growth?		Amount of material affected	

	Clean	Minor Dust / Debris	Needs Cleaning	Corrective Action Required
Ceiling	No	Yes	Yes	Replace ceiling tiles at supply grills
Walls	Yes	No	No	
Flooring	No	Yes	Yes	Clean and sanitize
HVAC Supply Grills	No	Yes	Yes	Clean with Wexcide disinfectant
HVAC Return Grills	No	Yes	Yes	Clean with Wexcide disinfectant
Ceiling at Supply Grills	No	Yes	Yes	Clean as appropriate
Surfaces in Room	No	Yes	Yes	Clean as appropriate

Observations

Findings:

- Dust and debris on floor
- Dust/dirt impaction on ceiling tiles at HVAC supply grills
- Dust and debris on HVAC supply and return grills
- Dust build up on environmental surfaces throughout the room
- Humidity level is slightly elevated

Recommendations:

Site Based Maintenance:

- Thoroughly clean and sanitize floor
- Clean HVAC supply and return grills with Wexcide disinfectant solution and clean ceiling at HVAC supply grills as appropriate
- Thoroughly clean all environmental surfaces throughout the room
- Continue to monitor this location for dust and debris accumulation and clean as appropriate

Physical Plant Operations:

- Remove and replace ceiling tiles around HVAC supply grills
- Evaluate and repair HVAC system to lower humidity level

IAQ Assessment

Sunrise Middle School

Location Number 0251
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 Evaluation Date June 8, 2006

Time of Day 9:00 am

Outdoor Conditions Temperature 81.7 Relative Humidity 77.9 Ambient CO2 445

Fish	Temperature	Range	Relative Humidity	Range	CO2	Range	# Occupants
719 & 720	74.1	72 - 78	66.7	30% - 60%	473	Max 700 > Ambient	4
Noticeable Odor	No		Visible water damage / staining?	Visible microbial growth?	Amount of material affected		
Ceiling Type	2 x 2 Lay In		No	No	None		
Wall Type	Drywall/Plaster		No	No	None		
Flooring	12 x 12 Vinyl		No	No	None		

	Clean	Minor Dust / Debris	Needs Cleaning	Corrective Action Required
Ceiling	No	Yes	Yes	Replace ceiling tiles at supply grills
Walls	Yes	No	No	
Flooring	Yes	No	No	
HVAC Supply Grills	No	Yes	Yes	Clean with Wexcide disinfectant
HVAC Return Grills	No	Yes	Yes	Clean with Wexcide disinfectant
Ceiling at Supply Grills	No	Yes	Yes	Clean as appropriate
Surfaces in Room	Yes	No	No	

Observations

Findings: Previous work order EQ00594

- Water pipe broke in wall March 2006. Pipe has been repaired and wall has been fixed.
- Dust/dirt impaction on ceiling tiles at HVAC supply grills
- Dust and debris on HVAC supply and return grills
- Cabinet base 4 inches up is water damaged in FISH 719 and 720
- Humidity level is slightly elevated

Recommendations:

Site Based Maintenance:

- Clean HVAC supply and return grills with Wexcide disinfectant solution and clean ceiling at HVAC supply grills as appropriate
- Clean all cabinets and shelving surfaces in FISH 719 and 720
- 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 cabinets from Northwest corner of FISH 719 working East until no more damage is found and remove base and make new base and reinstall cabinets
- Remove cabinets from Southwest corner of FISH 720 working East until no more damage is found and remove base and make new base and reinstall cabinets
- Remove and replace ceiling tiles around HVAC supply grills
- Evaluate and repair HVAC system to lower humidity level