

managing risk with responsibility

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December 17, 2009 Signature on File

TO: Mr. Ronald Forsman, Principal

Rickards Middle School

FROM: Edward See, Project Manager

Risk Management Department

SUBJECT: Indoor Air Quality (IAQ) Assessment

FISH 106A, 106D and 106E

For Custodial Supervisor Use Only		
	Custodial Issues Addressed	
	Custodial Issues Not Addressed	
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On November 12, 2009, I conducted an assessment of FISH 106A, 106D and 106E at **Rickards Middle 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.

Generally, the IAQ Assessment did not identify any existing conditions significantly impacting IAQ and thereby presenting immediate health and safety concerns 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: Sharon Airaghi, Area Superintendent

David Hall, Area Director

Jeffrey S. Moquin, Executive Director, Support Operations

Aston Henry, Supervisor, Risk Management

Robert Goode, Project Manager, Facilities and Construction Management

Dane Ramson, 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.

2121 IAQ Assessment **Location Number** Rickards Middle School **Evaluation Requested** November 6, 2009 **Evaluation Date** November 12, 2009 Time of Day 2:10 pm **Outdoor Conditions Temperature** 70.2 71.9 **Relative Humidity Ambient CO2** 413 Fish **Temperature** CO₂ Range **Relative Humidity** # Occupants Range Range 106A 73.1 54.5 585 72 - 78 Max 700 > Ambient 8 30% - 60% Visible water Visible microbial Amount of **Noticeable Odor** No damage / staining? growth? material affected Drywall @ 1 square foot above door **Ceiling Type** No Yes **Wall Type** @ 1 square foot above door Drywall Yes No **Flooring** 12 x 12 Vinyl No No None **Needs** Clean **Minor Dust Corrective Action Required** Cleaning / Debris No Yes Yes Clean with Wexcide disinfectant Ceiling Clean with Wexcide disinfectant Walls No Yes Yes Yes No No **Flooring** HVAC Supply Grills Yes No No HVAC Return Grills | Yes | No No **Ceiling at Supply** Yes No No **Grills Surfaces in Room** Yes No No **Observations** Findings: Minor microbial growth on wall and ceiling adjacent to HVAC return vent <u> Site Based Maintenance:</u> - Wipe down ceiling and wall 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

IAQ Assessment Locat	tion Number 2121			
Rickards Middle School Evalua	ation Requested November 6, 2009			
Time of Day 2:10 pm	Evaluation Date November 12, 2009			
Outdoor Conditions Temperature 70.2 Relative Humidity 71	.9 Ambient CO2 413			
Fish Temperature Range Relative Humidity Range CO2	Range # Occupants			
106D 73.6 72 - 78 54.8 30% - 60% 593	Max 700 > Ambient			
Noticeable Odor No Visible water Visible microbial Amount of damage / staining? growth? material affected				
Ceiling Type Drywall No No	None			
Wall Type Drywall No No	None			
Flooring 12 x 12 Vinyl No No	None			
Clean Minor Dust Needs Corre	ective Action Required			
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 Supply Yes No No Grills				
Surfaces in Room Yes No No				
bservations				
Findings: (Dark Room - obsolete) - No issues identified at the time of the assessment				
Site Based Maintenance: - Continue to monitor this location for any signs of microbial growth as well as dust and appropriate	debris accumulation and clean as			

IAQ Assessment **Location Number Evaluation Requested** November 6, 2009 Rickards Middle School **Evaluation Date** November 12, 2009 2:10 pm Time of Day **Outdoor Conditions Temperature** 70.2 71.9 **Relative Humidity Ambient CO2** 413 Fish **Temperature** CO₂ Range **Relative Humidity** # Occupants Range Range 106E 72.1 56.5 625 72 - 78 Max 700 > Ambient 30% - 60% Visible water Visible microbial Amount of **Noticeable Odor** No damage / staining? growth? material affected Drywall None **Ceiling Type** No No **Wall Type** None Drywall No No **Flooring** 12 x 12 Vinyl No No None **Needs** Clean **Minor Dust Corrective Action Required** / Debris Cleaning Yes No No Ceiling Walls Yes No No **Flooring** Yes No No HVAC Supply Grills Yes No No HVAC Return Grills | Yes | No No **Ceiling at Supply** Yes No No **Grills Surfaces in Room** Yes No No **Observations** Findings: (Dark Room - obsolete) · HFSP advised that over the summer (4 day work schedule) found visible microbial growth. Growth was wiped down and no reoccurrence. 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

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