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July 17, 2007

Signature on File

TO: Mr. James McDermott,, Principal
Forest Glen Middle School

FROM: Robert Krickovich, Coordinator, LEA
Facilities and Construction Management

SUBJECT: Indoor Air Quality (IAQ) Assessment
FISH 215

| For Custodial Supervisor Use Only | |
|--|--------------------------------|
| <input type="checkbox"/> | Custodial Issues Addressed |
| <input type="checkbox"/> | Custodial Issues Not Addressed |
| _____ | |
| _____ | |

On June 28, 2007 I conducted an assessment of FISH 215 at **Forest Glen 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.

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. 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 754-321-1638.

cc: Dr. Joanne Harrison, Area Superintendent
Jackie Haywood, Area Director
Jeffrey S. Moquin, Director, Risk Management
Paul Bach, Project Manager, Facilities and Construction Management
Ruby Fitzgerald, Broward Teachers Union
Roy Jarrett, National Federation of Public and Private Employees
Mark Dorsett, Manager 1, Physical Plant Operations Division, Zone 1
Roy Norton, Manager Custodial/Grounds, Physical Plant Operations Division

RK/tc
Enc.

IAQ Assessment

Forest Glen Middle School

Location Number
 Evaluation Requested
 Evaluation Date

Time of Day

Outdoor Conditions Temperature Relative Humidity Ambient CO2

| | | | | | | | |
|----------------------------------|--|--------------------------------------|-----------------------------------|--|--------------------------------------|---|--------------------------------|
| Fish | Temperature | Range | Relative Humidity | Range | CO2 | Range | # Occupants |
| <input type="text" value="215"/> | <input type="text" value="70.1"/> | <input type="text" value="72 - 78"/> | <input type="text" value="52.8"/> | <input type="text" value="30% - 60%"/> | <input type="text" value="912"/> | <input type="text" value="Max 700 > Ambient"/> | <input type="text" value="1"/> |
| Noticeable Odor | | Visible water damage / staining? | | Visible microbial growth? | | Amount of material affected | |
| <input type="text" value="No"/> | | <input type="text" value="No"/> | | <input type="text" value="No"/> | | <input type="text" value="None"/> | |
| Ceiling Type | <input type="text" value="2 x 2 Lay In"/> | | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text" value="None"/> | | |
| Wall Type | <input type="text" value="Struck Block"/> | | <input type="text"/> | <input type="text"/> | <input type="text" value="Unknown"/> | | |
| Flooring | <input type="text" value="12 x 12 Vinyl"/> | | <input type="text"/> | <input type="text"/> | <input type="text" value="Unknown"/> | | |

| | Clean | Minor Dust / Debris | Needs Cleaning | Corrective Action Required |
|--------------------------|----------------------------------|----------------------------------|----------------------------------|--|
| Ceiling | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| Walls | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text" value="Unable to determine"/> |
| Flooring | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text" value="Unable to determine"/> |
| HVAC Supply Grills | <input type="text" value="No"/> | <input type="text" value="Yes"/> | <input type="text" value="Yes"/> | <input type="text" value="Clean with Wexcide disinfectant"/> |
| HVAC Return Grills | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text" value="Unable to determine"/> |
| Ceiling at Supply Grills | <input type="text" value="No"/> | <input type="text" value="Yes"/> | <input type="text" value="Yes"/> | <input type="text" value="Clean as appropriate"/> |
| Surfaces in Room | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text" value="Unable to determine"/> |

Observations

Findings:

- Room is @ 28' x 12' and was packed solid with boxes and other stored items. Only a 4' x 4' area at the door was open to enter the room.
- Unable to determine status of walls, flooring, HVAC return grills and environmental surfaces due to the boxes and other items.
- Dust and debris on HVAC supply grills and on ceiling at supply grills
- Temperature was low at the time of the assessment

-Recommendations:

Site Based Maintenance:

- Clean HVAC supply grill with Wexcide disinfectant solution and clean ceiling as appropriate
- Reduce storage in room and thoroughly clean walls, flooring, HVAC return grills and 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 for proper operation and repair as appropriate to increase temperature