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January 7, 2005

TO: Ms. Karla Gary-Orange, Principal Maplewood Elementary School

- FROM: Aston A. Henry, Jr., Supervisor Risk Management Department
- SUBJECT: Indoor Air Quality (IAQ) Assessment FISH 142 and 202

On December 17, 2004 the IAQ Assessment Team conducted an assessment of FISH 142 and 202 at **Maplewood Elementary School**. The evaluation consisted of a walkthrough of the identified areas to assess the current condition of the location with regard to indoor air quality. This assessment included observations of the carpet, floor tile, ceiling tile, interior walls, false ceiling plenum, and accessible ventilation equipment.

Attached are the findings of this assessment along with recommendations for further assessment, remediation, or corrective actions, if needed.

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.

Should any questions arise, or if the current concerns continue after the attached recommendations have been addressed, please feel free to contact me at 754-321-3200.

 cc: Dr. Joanne Harrison, Area Superintendent Ulysses Jackson, Area Director Jeffrey S. Moquin, Director, Risk Management Greg Boardman, Project Manager II, Facilities and Construction Management Ruby Fitzgerald, Broward Teachers Union Mark Dorsett, Manager 1, Physical Plant Operations Division, Zone 1

AH/tc

| | | | IAQ Ass | sessment | | | | | |
|-----------------------------|-----------------|------------------------|-------------------------------|-----------------------|-------------------------------------|--------------------------|----------|---------------|--|
| Maplewood Elementary School | | | | | Evaluation Requested December 15, 2 | | | | |
| Time of Day 2 | ::55 pm | | | | | Evaluation Date | Decen | nber 17, 2004 | |
| Outdoor Conditions | S Tem | perature 64 | 1.8 | Relative Humid | ity 85.7 | 7 Ambie | nt CO2 | 475 | |
| Fish Temp | erature F | Range Relat | ive Humidity | Range | CO2 | Ran | ige | # Occupants | |
| 142 6 | 67.2 7 2 | 2 - 78 | 62.1 | 30% - 60% | 1277 | < 1,000 |) PPM | 3 | |
| Noticeable Odor | No | | sible water age / staining | Visible mi ? growt | | Amount of ma affected | terial | | |
| Ceiling Type | 2x4 Lay I | n | Νο | No | | | None | | |
| Wall Type | Tackable | ; | Yes | No | | W | est Wall | | |
| Flooring | Tile | | No | No | | | None | | |
| | Clean | Minor Dust / Debris | Needs Cleaning | | Corre | ctive Action Re | equired | | |
| Ceiling | Yes | No | No | | | | | | |
| Walls | No | Yes | Yes | | Repair W | est Wall as Ap | propriat | e | |
| Flooring | Yes | No | No | | | | | | |
| HVAC Supply Grills | s Yes | No | No | | | | | | |
| HVAC Return Grills | s Yes | No | No | | | | | | |
| Ceiling at Supply Grills | Yes | Νο | No | | | | | | |
| Surfaces in Room | Yes | No | No | | | | | | |

Observations

Findings:

- No visible signs of microbial growth or water intrusion
- West wall tackable surface lifted off of the wall
- Teacher concerned about air quality issues
- False ceiling plenum was clean and dry at the assessed location
- Room is cold
- High carbon dioxide level detected
- Humidity level is elevated

Recommendations:

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

Physical Plant Operations Division:

- Repair Northwest wall as appropriate
- Evaluate and repair as appropriate the fresh air dampers in order to lower the carbon dioxide level
- Repair HVAC as appropriate to lower the humidity level and increase the temperature

| IAQ Assessment | | | | | | | | | | | | |
|-----------------------------|---------------|------------------------|----------------------------------|--------------|----------------------------------|--------------------------|----------|---------------|--|--|--|--|
| Maplewood Elementary School | | | | | Evaluation Requested December 15 | | | | | | | |
| Time of Day | 3:30 pm | | | | I | Evaluation Date | Decen | nber 17, 2004 | | | | |
| Outdoor Conditior | ns Terr | perature | 64.8 | Relative Hum | nidity 85.7 | Ambie | nt CO2 | 475 | | | | |
| Fish Tem | perature | Range Rela | ative Humidity | Range | CO2 | Ran | ige | # Occupants | | | | |
| 202 | 66.4 7 | 2 - 78 | 67.5 | 30% - 60% | 745 | < 1,000 |) PPM | 3 | | | | |
| Noticeable Odor | No | | Visible water nage / staining | | microbial owth? | Amount of ma affected | terial | | | | | |
| Ceiling Type | 2x4 Lay | n | Νο | Ν | No | | None | | | | | |
| Wall Type | Tackable | | No | | No | | None | | | | | |
| Flooring | Tile | | No | N | No | | None | | | | | |
| | Clean | Minor Dust / Debris | Needs Cleaning | l | Corre | ctive Action Re | equired | | | | | |
| Ceiling | Yes | No | No | | | | | | | | | |
| Walls | Yes | No | No | | | | | | | | | |
| Flooring | Yes | No | No | | | | | | | | | |
| HVAC Supply Gri | lls Yes | No | No | | | | | | | | | |
| HVAC Return Gril | Is No | Yes | Yes | | Clean wit | h Wexcide Dis | infectan | ıt | | | | |
| Ceiling at Supply Grills | Yes | No | No | | | | | | | | | |
| Surfaces in Room | Yes | No | No | | | | | | | | | |

Observations

Findings:

- No visible signs of microbial growth or water intrusion
- False ceiling plenum was clean and dry at the assessed location
- Minor dust on HVAC return grills
- Room is cold
- Humidity level is elevated

Recommendations:

Site Based Maintenance:

- Clean HVAC return grills 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

Physical Plant Operations Division:

- Repair HVAC as appropriate to lower the humidity level and increase the temperature