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Signature on File

| January 1 | 1, 2007 |
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| TO: | Ms. Deborah Davey, Principal |
|-----|------------------------------|
| | Miramar High School |

- FROM: Robert J. Krickovich, Coordinator, LEA Facilities and Construction Management, Environmental Division
- SUBJECT: Indoor Air Quality (IAQ) Assessment Portable 1219

On January 8, 2007 Richard Rosa conducted an assessment of Portable 1219 at **Miramar High 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 Jacquelyn Box, Area Director Jeffrey S. Moquin, Director, Risk Management Rey Olivera, Project Manager, Facilities and Construction Management Steve Feldman, 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 | | Locati | Location Number 1751 | | | |
|--------------------------|-------------|------------------------|---------------------------------|--|----------------------|--------------------------|--------------|-----------|
| Miramar High School | | | Evaluat | Evaluation Requested December 18, 2006 | | | | |
| Time of Day | 10:10 am |] | | | l | Evaluation Date | January | / 8, 2007 |
| Outdoor Cond | itions Ter | nperature 8 | 33.7 | Relative Hum | idity 63.2 | 2 Ambie | nt CO2 | 441 |
| Fish | Temperature | Range Rela | tive Humidity | Range | CO2 | Ran | nge # | Occupants |
| P-1219 | 75 | 72 - 78 | 57 | 30% - 60% | 539 | Max 700 | > Ambient | 2 |
| Noticeable Oc | dor No | | /isible water age / staining | | nicrobial wth? | Amount of ma affected | terial | |
| Ceiling Type | Homaso | te | Yes | Ν | 0 | 1 s | quare foot | |
| Wall Type | Panelin | g | No | Ν | 0 | None | | |
| Flooring | 12 x 12 Vi | nyl | No | Ν | 0 | | None | |
| | Clean | Minor Dust / Debris | Needs Cleaning | l | Corre | ctive Action Re | equired | |
| Ceiling | No | Yes | Yes | Rem | nove and rep | place ceiling m | aterial (1 s | q. ft.) |
| Walls | Yes | No | No | | | | | |
| Flooring | Yes | Νο | 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 | | Cle | an as appropri | ate | |

Observations

Findings:

- No signs of water intrusion or microbial growth
- One square foot of ceiling material is stained. Ceiling was dry at the time of the assessment.
- Air conditioning was not on at the time of the assessment
- One HVAC supply grill, of four, is slightly rusted
- Minor dust build up on elevated surfaces and in lower corner areas

Recommendations:

Site Based Maintenance:

- Ensure that air conditioning remains on during school hours
- Clean elevated surfaces and move obstacles from corners to properly clean
- 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 cause of stained ceiling material and repair as appropriate. Repair/replace stained ceiling material as necessary (one square foot).

- Replace HVAC supply grill that is slightly rusted