

managing risk with responsibility

| Aston A. Henry, Supervisor |   |
|----------------------------|---|
| Risk Management Department | t |

 Telephone:
 754 321-1900

 Fax:
 754 321-1917

| January 22, 2 | 2013 Signature on File                                              | For Custodial Supervisor Use Only                            |
|---------------|---------------------------------------------------------------------|--------------------------------------------------------------|
| TO:           | Scott Neely, Principal<br><b>Cypress Bay High School</b>            | Custodial Issues Addressed<br>Custodial Issues Not Addressed |
| FROM:         | Richard Rosa, Project Manager<br>Facilities Design and Construction |                                                              |
| SUBJECT:      | Indoor Air Quality (IAQ) Assessment                                 |                                                              |

On January 18, 2013, I conducted an assessment at **Cypress Bay High School**. Attached are findings and recommendations for further assessment, remediation, or corrective actions 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.

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 site based custodial 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 us at 754-321-1907.

cc: Directors, School Performance & Accountability Shelley Meloni, Executive Director, Facilities Design and Construction Mark Dorsett, Manager, Zone 1, Physical Plant Operations Division Roy Norton, Manager, Custodial/Grounds, Physical Plant Operations Division Aston Henry, Supervisor, Risk Management Sonja Coley, Senior Project Manager, Facilities Design and Construction Broward Teachers Union Federation of Public Employees

RR/tc Enc.

|                                                                   |                                       | IAQ Assessme                                                    | ent                          |                                                                         |          |
|-------------------------------------------------------------------|---------------------------------------|-----------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------|----------|
|                                                                   | Cypress Bay High                      | Evaluation Date                                                 | January 18, 2013             | Time of Day                                                             | 1:00     |
| Outdoor Conditions Te                                             | mperature 62.7                        | ] Relative H                                                    | lumidity 50.1                | Ambient CO2 4                                                           | 07       |
| FishTemperatureP-1221C67.2                                        | · · · · · · · · · · · · · · · · · · · |                                                                 | nge CO<br>- 60% 445          |                                                                         | ccupants |
| Noticeable Odor Ye                                                | sta                                   | nter damage /<br>ining?<br>No                                   | Visible microbial<br>growth? | Amount of<br>material affected                                          |          |
| Walls   Wood Panelin     Floor   12" x 12" Viny                   |                                       | ies<br>No                                                       | No                           | window sills                                                            |          |
| Ceiling Clean No<br>Walls Clean Yes<br>Flooring Clean No          | Gr<br> <br> <br> <br>Du               | AC Supply<br>ills Clean<br>ide of Supply<br>ct Clean            | No<br>No                     | HVAC Return<br>Grills Clean<br>Inside of Return<br>Duct Clean           | No       |
| Room Surfaces No<br>Clean                                         |                                       | iling at Supply<br>Ils Clean                                    | No                           |                                                                         |          |
| Trash RemovedYesSigns of PestsNoRoom ClutteredNo                  | י<br>ם [                              | Fans Working<br>rain Traps Wet<br>ored in Room is<br>Containers | N/A<br>N/A<br>N/A            | Unapproved Chemicals /<br>Cleaners in Room<br>Air Fresheners<br>in Room | No       |
| Mechanical Equipment Loc                                          | ation Bard like HVAC                  | system in class                                                 | room                         | Mechanical Room Clean                                                   | N/A      |
| Filters Installed Properly<br>Condensate Pan Clean                | N/A<br>N/A Cool                       | Filters Clean<br>ing Coil Clean                                 | N/A<br>N/A                   | Inside of HVAC Unit Clean                                               | N/A      |
| Fresh Air Intake Location<br>Pollutant Sources Near Air<br>Intake | Behind Bard u                         | nit/Exterior wall<br>Iscape                                     | ▼<br>▼                       | Fresh Air Intake Free<br>of Obstruction                                 | Yes      |
| Observations                                                      |                                       |                                                                 |                              |                                                                         |          |

1221C or # 43 is a portable.

The HVAC system was not running at time of assessment.

Evaluate the Bard HVAC system to lower humidity levels and odor due the contrast between. Remove return grill and vacuum all surfaces. There was not access to the inside of the bard unit at the time of assessment. Pressure clean the exterior surfaces of the bard unit , covered in algae.

Corrective Actions to be Completed by Site Based Staff

| Clean ceilings around HVAC supply grills | ▼ |
|------------------------------------------|---|
| Thoroughly clean horizontal surfaces     | ▼ |
| Clean HVAC supply grills with Wexcide    | ▼ |
| Thoroughly clean and sanitize flooring   | ▼ |
| Pressure clean exterior of bard unit     | ▼ |
| Remove HVAC return grill and vacuum      | ▼ |
| Thoroughly clean blinds                  | ▼ |
|                                          | ▼ |

**Corrective Actions to be Completed by PPO** 

| VAC to reduce humidity level       | Repair HV     |
|------------------------------------|---------------|
| the cleaning of the HVAC coil      | Evaluate t    |
| Clean the supply drops             | Cle           |
| nd repair cause of water damage    | Evaluate and  |
| replace wall material as necessary | Remove and re |
| ▼                                  |               |
| ▼                                  |               |
| ▼                                  |               |

| IAQ /                                                                                                                              | Assessment                                                               |
|------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Cypress Bay High Eval                                                                                                              | uation Date January 18, 2013 Time of Day 10:30                           |
| Outdoor Conditions Temperature 62.7                                                                                                | Relative Humidity 50.1 Ambient CO2 407                                   |
| FishTemperatureRangeRelative HumP-1225C65.472 - 7858                                                                               | idityRangeCO2Range# Occupants30% - 60%419MAX 700 >Ambient                |
| Noticeable Odor     Yes     Visible water data staining?       Ceiling     Drywall     No                                          | mage / Visible microbial Amount of growth? material affected             |
| Walls     Wood Paneling     Yes       Floor     12" x 12" Vinyl     No                                                             | No     window sills       No                                             |
| Ceiling CleanNoHVAC Su<br>Grills CleWalls CleanYesInside ofFlooring CleanYesDuct CleatRoom SurfacesNoCeiling at<br>Grills Clean    | an NO Grills Clean Yes<br>Supply NO Inside of Return NO<br>Duct Clean NO |
| Trash RemovedYesExhaust Fans NSigns of PestsNoDrain TrRoom ClutteredNoFood if Stored in<br>in Sealed Contair                       | Air Fresheners No<br>Room is N/A in Room                                 |
| Mechanical Equipment Location Bard like HVAC syste<br>Filters Installed Properly N/A Filter<br>Condensate Pan Clean N/A Cooling Co | s Clean N/A Inside of HVAC Unit Clean N/A                                |
| Fresh Air Intake Location<br>Pollutant Sources Near Air<br>Intake<br>Observations                                                  | of Obstruction Yes                                                       |

1225C or # 42 is a portable.

The HVAC system was not running at time of assessment.

Evaluate the Bard HVAC system to lower humidity levels and odor due the contrast between. Remove return grill and vacuum all surfaces. There was not access to the inside of the bard unit at the time of assessment. Pressure clean the exterior surfaces of the bard unit , covered in algae.

Corrective Actions to be Completed by Site Based Staff

| n ceilings around HVAC supply grills | • |
|--------------------------------------|---|
| proughly clean horizontal surfaces   | • |
| an HVAC supply grills with Wexcide   | • |
|                                      | • |
| essure clean exterior of bard unit   | • |
| nove HVAC return grill and vacuum    | • |
|                                      | • |
|                                      | • |
|                                      |   |

**Corrective Actions to be Completed by PPO** 

| Repair HVAC to reduce humidity level          | ▼ |
|-----------------------------------------------|---|
| Evaluate the cleaning of the HVAC coil        | ▼ |
|                                               | ▼ |
| Clean the supply drops                        | ▼ |
| Evaluate and repair cause of water damage     | ▼ |
| Remove and replace wall material as necessary | ▼ |
|                                               | ▼ |
|                                               | ▼ |