THE SCHOOL BOARD OF BROWARD COUNTY, FLORIDA ENVIRONMENTAL HEALTH & SAFETY DEPARTMENT

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| July 11, 2016 | Signature on File | For Custodial Supervisor Use Only |
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| TO: | Christine Henschel, Principal South Plantation High | Custodial Issues Addressed Custodial Issues Not Addressed |
| FROM: | Robert Krickovich, Coordinator, LEA Environmental Health & Safety Department | |
| SUBJECT: | Indoor Air Quality (IAQ) Assessment | |

On July 7, 2016, Edward See conducted an assessment at **South Plantation 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 754-321-4200.

RK:smn Enc.

cc: Shelley Meloni, Director, Pre-Construction Mark Dorsett, Manager, Zone 1, Physical Plant Operations Division Broward Teachers Union Federation of Public Employees Gerald Devio, Supervisor II Custodial Benjamin Osborne, Supervisor II Custodial Rich Volpi, Supervisor II Custodial Mark Murray, Supervisor II Custodial Sam Bays, Director, Maintenance Operations Kurt Wirz, Area Manager Trades

| | IAQ Assessi | ment | | |
|--------------------------------------|---|---|--|---------|
| South Plantation | High School Evaluation Dat | e July 7, 2016 | Time of Day 1 | 420 |
| Outdoor Conditions Temper | ature 95.1 Relative | Humidity 62.7 | Ambient CO2 4 | 41 |
| | | Range CO ² % - 60% 523 | | cupants |
| Noticeable Odor Yes | Visible water damage / staining? | Visible microbial growth? | Amount of material affected | |
| Ceiling 2' X 4' Lay in | No | No | | |
| Walls Drywall | No | No | | |
| Floor 12" x 12" Vinyl |]No | No | | |
| Ceiling Clean Yes Walls Clean Yes | HVAC Supply Grills Clean | No | HVAC Return Grills Clean | No |
| Flooring Clean Yes | Inside of Supply Duct Clean | Yes | Inside of Return Duct Clean | Yes |
| Room Surfaces Yes Clean | Ceiling at Supply Grills Clean | Yes | | |
| Trash Removed Yes | Exhaust Fans Working | N/A | Unapproved Chemicals / Cleaners in Room | No |
| Signs of Pests No | Drain Traps Wet | N/A | Air Fresheners | No |
| Room Cluttered No | Food if Stored in Room is in Sealed Containers | N/A | in Room | |
| Mechanical Equipment Location | FISH 144 | | Mechanical Room Clean | Yes |
| Filters Installed Properly Yes | S Filters Clean | Yes | Inside of HVAC Unit Clean | Yes |
| Condensate Pan Clean Yes | Cooling Coil Clean | Yes | | |
| Fresh Air Intake Location | Outside of Room | ▼ | Fresh Air Intake Free of Obstruction | Yes |
| Pollutant Sources Near Air Intake | None | ▼ | | |
| Observations | | | | |
| Odor source from floor stripping | g chemical applied by custodial | staff. | | |
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| Clean Supply Grills with Wexcide | ▼ |
| Clean HVAC Return Grill with Wexcide | ▼ |
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| Repair HVAC to Reduce Humidity Levels | ▼ |
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| | IAQ Assess | ment | | |
|--------------------------------------|---|---|--|---------------|
| South Plantation | High School Evaluation Dat | e July 7, 2016 | Time of Day | 420 |
| Outdoor Conditions Tempera | ature 95.1 Relative | e Humidity 62.7 | Ambient CO2 4 | 41 |
| | | Range CO ² % - 60% 519 | | ccupants 4 |
| Noticeable Odor Yes | Visible water damage / staining? | Visible microbial growth? | Amount of material affected | |
| Ceiling 2' X 4' Lay in | No | No | | |
| Walls Drywall | No | No | | |
| Floor 12" x 12" Vinyl |]No | No | | |
| Ceiling Clean Yes Walls Clean Yes | HVAC Supply Grills Clean | No | HVAC Return Grills Clean | No |
| Flooring Clean Yes | Inside of Supply Duct Clean | Yes | Inside of Return Duct Clean | Yes |
| Room Surfaces Yes Clean | Ceiling at Supply Grills Clean | Yes | | |
| Trash Removed Yes | Exhaust Fans Working | N/A | Unapproved Chemicals / Cleaners in Room | No |
| Signs of Pests No | Drain Traps Wet | N/A | Air Fresheners | No |
| Room Cluttered No | Food if Stored in Room is in Sealed Containers | N/A | in Room | |
| Mechanical Equipment Location | FISH 144 | | Mechanical Room Clean | Yes |
| Filters Installed Properly Yes | s Filters Clean | Yes | Inside of HVAC Unit Clean | Yes |
| Condensate Pan Clean Yes | Cooling Coil Clean | Yes | | |
| Fresh Air Intake Location | Outside of Room | ▼ | Fresh Air Intake Free of Obstruction | Yes |
| Pollutant Sources Near Air Intake | None | ▼ | 0.000.000 | |
| Observations | | | | |
| Odor source from floor strippin | g chemical applied by custodial | staff. | | |
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| Clean Supply Grills with Wexcide | ▼ |
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| | IAQ Assessr | ment | | |
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| South Plantation I | High School Evaluation Dat | e July 7, 2016 | Time of Day | 420 |
| Outdoor Conditions Tempera | ature 95.1 Relative | Humidity 62.7 | Ambient CO2 4 | 41 |
| | | Range CO ² % - 60% 523 | | ccupants 1 |
| Noticeable Odor Yes | Visible water damage / staining? | Visible microbial growth? | Amount of material affected | |
| Ceiling 2' X 4' Lay in | No | No | | |
| Walls Drywall | No | No | | |
| Floor 12" x 12" Vinyl | | No | | |
| Ceiling Clean Yes | HVAC Supply Grills Clean | No | HVAC Return Grills Clean | No |
| Walls CleanYesFlooring CleanYes | Inside of Supply Duct Clean | Yes | Inside of Return Duct Clean | Yes |
| Room Surfaces Yes Clean | Ceiling at Supply Grills Clean | Yes | | |
| Trash Removed Yes | Exhaust Fans Working | N/A | Unapproved Chemicals / Cleaners in Room | No |
| Signs of Pests No | Drain Traps Wet | N/A | Air Fresheners | No |
| Room Cluttered No | Food if Stored in Room is in Sealed Containers | N/A | in Room | |
| Mechanical Equipment Location | FISH 144 | | Mechanical Room Clean | Yes |
| Filters Installed Properly Yes | S Filters Clean | Yes | Inside of HVAC Unit Clean | Yes |
| Condensate Pan Clean Yes | Cooling Coil Clean | Yes | | |
| Fresh Air Intake Location | Outside of Room | ▼ | Fresh Air Intake Free of Obstruction | Yes |
| Pollutant Sources Near Air Intake | None | ▼ | of obstruction | |
| Observations | | | | |
| Odor source from floor stripping | g chemical applied by custodial | staff. | | |
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| Clean Supply Grills with Wexcide | ▼ |
| Clean HVAC Return Grill with Wexcide | ▼ |
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| South Plantation H | igh School Evaluation Dat | e July 7, 2016 | Time of Day 1 | 350 |
| Outdoor Conditions Tempera | ture 95.1 Relative | Humidity 62.7 | Ambient CO2 4 | 41 |
| FishTemperatureRai14674.372 | | Range CO % - 60% 503 | | 2 |
| Noticeable Odor Yes | Visible water damage / staining? | Visible microbial growth? | Amount of material affected | |
| Ceiling2' X 4' Lay inWallsDrywallFloor12" x 12" Vinyl | No No | No No | | |
| Ceiling Clean Yes Walls Clean Yes Flooring Clean Yes Room Surfaces Yes | HVAC Supply Grills Clean Inside of Supply Duct Clean Ceiling at Supply | No Yes | HVAC Return Grills Clean Inside of Return Duct Clean | No Yes |
| Clean | Grills Clean | No | | |
| Trash RemovedYesSigns of PestsNoRoom ClutteredNo | Exhaust Fans Working Drain Traps Wet Food if Stored in Room is in Sealed Containers | N/A N/A N/A | Unapproved Chemicals / Cleaners in Room Air Fresheners in Room | No No |
| Mechanical Equipment Location | FISH 144 | | Mechanical Room Clean | Yes |
| Filters Installed ProperlyYesCondensate Pan CleanYes | | Yes | Inside of HVAC Unit Clean | Yes |
| Fresh Air Intake Location Pollutant Sources Near Air Intake | Outside of Room None | ▼ ▼ | Fresh Air Intake Free of Obstruction | Yes |
| Observations | | | | |
| Odor source from floor stripping | chemical applied by custodia | staff. | | |
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| South Plantation Hig | gh School Evaluation Dat | e July 7, 2016 | Time of Day | 230 |
| Outdoor Conditions Temperatu | ıre 95.1 Relative | Humidity 62.7 | Ambient CO2 4 | 41 |
| Fish Temperature Range 146C 76.8 72 - 7 | | Range CC % - 60% 494 | | ccupants 1 |
| Noticeable Odor Yes | Visible water damage / staining? | Visible microbial growth? | Amount of material affected | |
| Ceiling2' X 4' Lay inWallsDrywallFloor12" x 12" Vinyl | No No | No No No | | |
| Ceiling CleanYesWalls CleanYesFlooring CleanYesRoom SurfacesYes | HVAC Supply Grills Clean Inside of Supply Duct Clean Ceiling at Supply | Yes Yes | HVAC Return Grills Clean Inside of Return Duct Clean | Yes Yes |
| Clean Trash Removed Yes | Grills Clean Exhaust Fans Working | | Unapproved Chemicals / | |
| Signs of Pests No Room Cluttered No | Drain Traps Wet Food if Stored in Room is in Sealed Containers | N/A | Cleaners in Room Air Fresheners in Room | No No |
| Mechanical Equipment Location | FISH 144 | | Mechanical Room Clean | Yes |
| Filters Installed Properly Yes Condensate Pan Clean Yes | Filters Clean Cooling Coil Clean | Yes Yes | Inside of HVAC Unit Clean | Yes |
| Bollutant Sources Near Air | Dutside of Room | ▼ | Fresh Air Intake Free of Obstruction | Yes |
| Observations Odor from floor stripper chemical | applied by custodial staff. | | | |
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| Clean ceilings around HVAC supply grills | ▼ |
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| South Plantation | High School Evaluation Dat | e July 7, 2016 | Time of Day | 317 |
| Outdoor Conditions Tempera | ature 95.1 Relative | Humidity 62.7 | Ambient CO2 4 | 41 |
| | | Range CO ² % - 60% 491 | Range # Oo MAX 700 > Ambient | ccupants |
| Noticeable Odor Yes | Visible water damage / staining? | Visible microbial growth? | Amount of material affected | |
| Ceiling2' X 4' Lay inWallsDrywallFloor12" x 12" Vinyl | Yes No | No No No | 1 stained ceiling til | e |
| Ceiling Clean Yes Walls Clean Yes | HVAC Supply Grills Clean | Yes | HVAC Return Grills Clean | Yes |
| Flooring Clean Yes | Inside of Supply Duct Clean | Yes | Inside of Return Duct Clean | Yes |
| Room Surfaces Yes Clean | Ceiling at Supply Grills Clean | Yes | | |
| Trash Removed Yes Signs of Pests No | Exhaust Fans Working Drain Traps Wet | N/A | Unapproved Chemicals / Cleaners in Room | No |
| Room Cluttered No | Food if Stored in Room is in Sealed Containers | N/A | Air Fresheners in Room | No |
| Mechanical Equipment Location | FISH 144 | | Mechanical Room Clean | Yes |
| Filters Installed Properly Yes | 5 Filters Clean | Yes | Inside of HVAC Unit Clean | Yes |
| Condensate Pan Clean Yes | Cooling Coil Clean | Yes | | |
| Fresh Air Intake Location Pollutant Sources Near Air | Outside of Room | ▼ | Fresh Air Intake Free of Obstruction | Yes |
| Intake | | | | |
| Observations Missing approximately 50% ceil | ing tiles in room. Possible on-c | oing maintenance pro | piect. | |
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| Ensure ceiling tiles are installed properly | ▼ |
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| Remove and replace stained ceiling tile | ▼ |
| If stains return, contact COMPASS for work order | ▼ |
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| Repair HVAC to Reduce Humidity Levels | ▼ |
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| South Plantation F | High School Evaluation Dat | e July 7, 2016 | Time of Day 1254 | |
| Outdoor Conditions Tempera | ture 95.1 Relative | Humidity 62.7 | Ambient CO2 441 | |
| | | Range CO ² % - 60% 474 | | |
| Noticeable Odor Yes | Visible water damage / staining? | Visible microbial growth? | Amount of material affected | |
| Ceiling2' X 4' Lay inWallsDrywallFloor12" x 12" Vinyl | Yes Yes No | No No | 3 stained ceiling tiles | |
| Ceiling Clean Yes Walls Clean Yes Flooring Clean Yes | HVAC Supply Grills Clean Inside of Supply Duct Clean | Yes | | (es (es |
| Room Surfaces Yes Clean | Ceiling at Supply Grills Clean | Yes | | |
| Trash RemovedYesSigns of PestsNoRoom ClutteredNo | Exhaust Fans Working Drain Traps Wet Food if Stored in Room is in Sealed Containers | N/A N/A | | No No |
| Mechanical Equipment Location Filters Installed Properly Yes Condensate Pan Clean Yes | _ | Yes | | (es (es |
| Fresh Air Intake Location Pollutant Sources Near Air Intake | Outside of Room None | ▼ | Fresh Air Intake Free Y | (es |
| Observations Odor from floor stripper chemica | al applied by custodial staff. | | | |
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| Remove and replace stained ceiling tile | ▼ |
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| If stains return, contact COMPASS for work order | ▼ |
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| Repair HVAC to Reduce Humidity Levels | ▼ |
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