

FROM:

managing risk with responsibility

Custodial Issues Not Addressed

Risk Management Department			Fax:	754 321-1900 754 321-1917
August 20, 2013		gnature on File	For Custodial	Supervisor Use Only
TO:	Davida Shacter. Pr	incipal	Custodial Is	sues Addressed

Davida Shacter, Principal

Robert Krickovich, Coordinator I, LEA Risk Management Department

North Andrews Gardens Elementary School

SUBJECT: Indoor Air Quality (IAQ) Assessment

On August 12, 2013, I conducted an assessment at North Andrews Gardens Elementary School. Attached are findings and recommendations for further assessment, remediation, or corrective actions needed. On August 15, 2013 a follow up assessment was conducted and the corrective actions were in progress on that date.

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: Shelley Meloni, Task Assigned Chief Facilities & Construction Officer, Facilities & Construction Mark Dorsett, Manager, Zone 1, Physical Plant Operations Division Roy Norton, Manager, Custodial/Grounds, Physical Plant Operations Division Aston Henry, Director, Risk Management Sonja Coley, Senior Project Manager, Facilities & Construction **Broward Teachers Union** Federation of Public Employees

RK/tc Enc.

North Andrews Gardens Elementary Eval	luation Date	e August	12, 2013	Time of Day	9:00	
Outdoor Conditions Temperature 88.1	Relative	Humidity [68.1	Ambient CO2 5	11	
Fish Temperature Range Relative Hun 502 76.1 72 - 78 62.1	- i	Range % - 60%	483	_	ccupants 1	
Noticeable Odor No Visible water da staining? Ceiling 2' X 4' Lay in No Walls Drywall/Tackboard No		Visible m grow No	/th?	Amount of material affected		
Floor 12" x 12" Vinyl No		No	_			
Ceiling Clean Yes Walls Clean Yes Inside of Duct Cle	ean f Supply	No Yes		HVAC Return Grills Clean Inside of Return Duct Clean	No No	
Room Surfaces No Ceiling a Clean Grills Cle	at Supply ean	No				
Trash Removed Yes Exhaust Fans Signs of Pests No Drain T Room Cluttered No Food if Stored in in Sealed Contain	raps Wet	No Yes N/A		Unapproved Chemicals / Cleaners in Room Air Fresheners in Room	No No	
Mechanical Equipment Location FISH 506 Filters Installed Properly Yes Filter Condensate Pan Clean Yes Cooling Co	rs Clean oil Clean	Yes Yes		Mechanical Room Clean Inside of HVAC Unit Clean	Yes	
Fresh Air Intake Location Pollutant Sources Near Air Intake Outside of Room Mango trees and pa	Im trees		▼	Fresh Air Intake Free of Obstruction	Yes	
Observations Microbial growth on edges and inside of student desks, and chairs, and clipboards - supply and return grills dirty - inside of return dirty - surfaces in room dirty						
Corrective Actions to be Completed by Site Based Staff Corrective Actions to be Completed by PPO						
Thoroughly clean all surfaces Clean ceilings around HVAC supply grills Clean HVAC supply and return grills with Wexcide	▼ ▼ ▼ ▼		epair exha	o reduce humidity level ust fan in room 502A ide of return ducts	V V V	

North Andrews Gardens Elementary Eval	uation Da	August 12, 2013	Time of Day 9	:00
Outdoor Conditions Temperature 88.1	Relativ	ve Humidity 68.1	Ambient CO2 51	1
Fish Temperature Range Relative Hun 503 76.2 72 - 78 62.2	 i	Range <u>C</u> 0% - 60% 65		cupants 1
Noticeable Odor No Visible water da staining?	_	Visible microbial growth?	Amount of material affected	
Ceiling 2' X 4' Lay in No		No		
Walls Drywall/Tackboard No		No		
Floor 12" x 12" Vinyl No		No		
Ceiling Clean Yes HVAC Su Grills Cle Walls Clean Yes Inside of Duct Cle	Supply	No	HVAC Return Grills Clean Inside of Return Duct Clean	No No
Room Surfaces No Ceiling a Clean Grills Cle		No		
Trash Removed Yes Exhaust Fans Signs of Pests No Drain To	Working	No Yes	Unapproved Chemicals / Cleaners in Room	No
Room Cluttered No Food if Stored in in Sealed Contai	Room is		Air Fresheners in Room	No
Mechanical Equipment Location FISH 506			Mechanical Room Clean	Yes
Filters Installed Properly Yes Filter	rs Clean	Yes	Inside of HVAC Unit Clean	Yes
Condensate Pan Clean Yes Cooling Co	oil Clean	Yes		
Fresh Air Intake Location Outside of Room Pollutant Sources Near Air		▼	Fresh Air Intake Free of Obstruction	Yes
Intake Mango trees and pal	m trees	▼		
Observations Microbial growth on edges and inside of student desk in room dirty	s - supp	oly and return grills di	rty - inside of return dirty - s	urfaces
Corrective Actions to be Completed by Site Based St	aff	Corrective Act	ions to be Completed by PP	0
Thoroughly clean all surfaces	▼		to reduce humidity level	▼
Clean ceilings around HVAC supply grills	▼		aust fan in room 503A	▼
Clean HVAC supply and return grills with Wexcide	▼	Clean in	side of return ducts	▼
	— '			

North Andrews Gardens Elementary Eval	Aluation Date August 12, 2013 Time of Day 9:00					
Outdoor Conditions Temperature 88.1	Relative Humidity 68.1 Ambient CO2 511					
Fish Temperature Range Relative Hun 504 73.9 72 - 78 56.4	midity Range CO ² Range # Occupants 30% - 60% 513 MAX 700 > 1 Ambient					
Noticeable Odor No Visible water da staining?						
Ceiling 2' X 4' Lay in No	No					
Walls Drywall/Tackboard No	No					
Floor 12" x 12" Vinyl No	No					
Ceiling Clean Yes HVAC Su Grills Cle						
	of Supply ean Inside of Return Duct Clean No					
Room Surfaces No Ceiling a Grills Clean	at Supply lean No					
Trash Removed Yes Exhaust Fans	Cleaners in Room No					
Signs of Pests No Drain T Room Cluttered No Food if Stored ir in Sealed Contai						
Mechanical Equipment Location FISH 506	Mechanical Room Clean Yes					
Filters Installed Properly Yes Filter	ers Clean Yes Inside of HVAC Unit Clean Yes					
Condensate Pan Clean Yes Cooling Co	Coil Clean Yes					
Fresh Air Intake Location Outside of Room	▼ Fresh Air Intake Free of Obstruction Yes					
Pollutant Sources Near Air Intake Mango trees and pa						
Observations						
Microbial growth on edges and inside of student desl inside of return dirty - surfaces in room dirty - walls d	sks - supply and return grills dirty - Ceilings at supply grills dirty - dusty in front of supply grills					
Corrective Actions to be Completed by Site Based St	Staff Corrective Actions to be Completed by PPO					
Thoroughly clean all surfaces ▼ Repair HVAC to reduce humidity level ▼						
Clean ceilings around HVAC supply grills	▼ Repair exhaust fan in room 504A ▼					
Clean HVAC supply and return grills with Wexcide	 					
	▼ ▼					
	▼ ▼					

North Andrews Gardens Elementary Eval	luation Da	August 12	, 2013	Time of Day	:00
Outdoor Conditions Temperature 88.1	Relativ	e Humidity	68.1	Ambient CO2 5	11
Fish Temperature Range Relative Hun 505 74.1 72 - 78 58.9	i	Range 9% - 60%	CO 472		cupants
Noticeable Odor No Visible water da staining?	_	Visible micro growth?		Amount of material affected	
Ceiling 2' X 4' Lay in No		No			
Walls Drywall/Tackboard No		No			
Floor 12" x 12" Vinyl No		No			
Ceiling Clean Yes HVAC Su		No		HVAC Return Grills Clean	No
Walls Clean Yes Inside of Flooring Clean Yes Duct Cle		Yes		Inside of Return Duct Clean	No
Room Surfaces No Ceiling a Grills Clean		No			
Trash Removed Yes Exhaust Fans		No		Unapproved Chemicals / Cleaners in Room	No
Signs of Pests No Drain T Room Cluttered No Food if Stored in in Sealed Contai		Yes N/A		Air Fresheners in Room	No
Mechanical Equipment Location FISH 506				Mechanical Room Clean	Yes
·	rs Clean	Yes		Inside of HVAC Unit Clean	Yes
Condensate Pan Clean Yes Cooling Co	oil Clean	Yes			
Fresh Air Intake Location Outside of Room			▼	Fresh Air Intake Free of Obstruction	Yes
Pollutant Sources Near Air Intake Mango trees and pal	lm trees		▼		
Observations					
Microbial growth on edges and inside of student desk return dirty - surfaces in room dirty	ks, and o	n wood rocker -	suppl	y and return grills dirty - in	side of
Corrective Actions to be Completed by Site Based St	aff	Correctiv	e Actio	ons to be Completed by PP	0
Thoroughly clean all surfaces ▼ Repair HVAC to reduce humidity level ▼					
Clean ceilings around HVAC supply grills	▼			aust fan in room 505A	
Clean HVAC supply and return grills with Wexcide	 ▼ 	Cle	ean ins	side of return ducts	▼
	▼				▼
	ا لنا				

North Andrews Gardens Elen	nentary Evaluation Da	August 12, 2013	Time of Day 9	:00
Outdoor Conditions Temperature	e 88.1 Relativ	e Humidity 68.1	Ambient CO2 5	11
Fish Temperature Range 509 74.4 72 - 78	i	Range CO ² 9% - 60% 473	Range # Oc MAX 700 > Ambient	cupants
Noticeable Odor No Ceiling 2' X 4' Lay in	Visible water damage / staining?	Visible microbial growth?	Amount of material affected	
	No No			
21911411171401140414	No No	No No		
Floor 12" x 12" Vinyl	No	No		
Ceiling Clean Yes Walls Clean No	HVAC Supply Grills Clean	Yes	HVAC Return Grills Clean	No
Flooring Clean Yes	Inside of Supply Duct Clean	Yes	Inside of Return Duct Clean	No
Room Surfaces No Clean	Ceiling at Supply Grills Clean	No		
Trash Removed Yes	Exhaust Fans Working	No	Unapproved Chemicals / Cleaners in Room	No
Signs of Pests No Room Cluttered No	Drain Traps Wet Food if Stored in Room is	Yes	Air Fresheners in Room	No
	in Sealed Containers	N/A		
Mechanical Equipment Location FIS	SH 506		Mechanical Room Clean	Yes
Filters Installed Properly Yes	Filters Clean		Inside of HVAC Unit Clean	Yes
Condensate Pan Clean Yes	Cooling Coil Clean	Yes		
	tside of Room	▼	Fresh Air Intake Free of Obstruction	Yes
Pollutant Sources Near Air Intake	ngo trees and palm trees	▼		
Observations				
Spotty microbial growth on edges ar in room - dust on walls in front of su		s - microbial growth on	teachers stool - dust on s	urfaces
509A - Exhaust fan not working - 2 s	tained ceiling tiles			
Corrective Actions to be Completed	by Site Based Staff	Corrective Action	ns to be Completed by PP	<u> </u>
Thoroughly clean all sur			de of return ducts	▼
Clean Cilings around HVAC s		•	reduce humidity level	

constant a none to be completed by one bacca	
Thoroughly clean all surfaces	▼
Clean ceilings around HVAC supply grills	▼
Clean HVAC return grills with Wexcide	▼
	▼
	▼
	▼
	▼
	▼

Corrective Actions to be completed by 110	
Clean inside of return ducts	▼
Repair HVAC to reduce humidity level	▼
Repair exhaust fan in 509A	▼
Repair cause of stained ceiling tiles in 509A	▼
Replace stained ceiling tiles	▼
	▼
	▼
	▼

North Andrews Gardens E	Elementary Evaluation Date	te August 12, 2013	Time of Day9	9:00
Outdoor Conditions Tempera	ture 88.1 Relative	Humidity 68.1	Ambient CO2 51	11
		Range CO ² 472	Range # Oc MAX 700 > Ambient	ccupants 1
Noticeable Odor No Ceiling 2' X 4' Lay in Walls Drywall/Tackboard Floor 12" x 12" Vinyl	Visible water damage / staining? No No No	Visible microbial growth? No No No	Amount of material affected	
Ceiling Clean Yes Walls Clean No Flooring Clean Yes Room Surfaces No Clean	HVAC Supply Grills Clean Inside of Supply Duct Clean Ceiling at Supply Grills Clean	No Yes No	HVAC Return Grills Clean Inside of Return Duct Clean	No No
Trash Removed Yes Signs of Pests No Room Cluttered No	Exhaust Fans Working Drain Traps Wet Food if Stored in Room is in Sealed Containers	No Yes N/A	Unapproved Chemicals / Cleaners in Room Air Fresheners in Room	No No
Mechanical Equipment Location Filters Installed Properly Condensate Pan Clean Yes	- -	Yes	Mechanical Room Clean Inside of HVAC Unit Clean	Yes
Fresh Air Intake Location Pollutant Sources Near Air Intake	Outside of Room Mango trees and palm trees	▼	Fresh Air Intake Free of Obstruction	Yes
Observations microbial growth on edges and i wall surfaces - microbial growth duct flex connector does not app 510A - 1 stained ceiling tile - exha	on plastic student chairs - sup pear to be connected properly.	pply grills dirty - ceiling		
5 TOA - 1 Stained Ceiling tile - exha	aust fan not working			

Corrective Actions to be Completed by Site Based Staff

ali
▼
▼
▼
▼
▼
▼
▼
▼

Corrective Actions to be Completed by PPO

composition to be completed by i.i.e.	
Clean inside of return ducts	▼
Repair HVAC to reduce humidity level	▼
Repair exhaust fan in 510A	▼
Repair cause of stained ceiling tile in 510A	▼
Replace stained ceiling tile	▼
Evaluate flex connector on return air box	▼
	▼
	▼

North Andrews Gardens Eleme	<u>entary</u> Evalu	ation Da	te August	12, 2013	_ Time of Day	9:00
Outdoor Conditions Temperature	88.1	Relativ	e Humidity [68.1	Ambient CO2	511
Fish Temperature Range 511 72.8 72 - 78	Relative Humi 61.9	—í	Range)% - 60%	CO ² 459	Range # O MAX 700 > Ambient	ccupants 2
Noticeable Odor Yes	Visible water dan staining?	nage /	Visible m grow		Amount of material affected	
Ceiling 2' X 4' Lay in	No		No			
Walls Drywall/Tackboard	No		No			
Floor 12" x 12" Vinyl	No		No	<u> </u>		
Ceiling Clean Yes Walls Clean No	HVAC Sup Grills Clea		No		HVAC Return Grills Clean	Yes
Flooring Clean Yes	Inside of S Duct Clear		Yes		Inside of Return Duct Clean	No
Room Surfaces No Clean	Ceiling at Grills Clea		No			
Trash Removed Yes	Exhaust Fans W		No		Unapproved Chemicals / Cleaners in Room	No
Signs of Pests No Room Cluttered No	Drain Tra Food if Stored in F	-	Yes		Air Fresheners in Room	No
	in Sealed Contain	ers	N/A			
Mechanical Equipment Location FISH	H 506				Mechanical Room Clean	Yes
Filters Installed Properly Yes	Filters	Clean	Yes		Inside of HVAC Unit Clean	Yes
Condensate Pan Clean Yes	Cooling Coi	l Clean	Yes			
Fresh Air Intake Location Outs	side of Room			▼	Fresh Air Intake Free of Obstruction	Yes
Pollutant Sources Near Air Intake	go trees and paln	n trees		▼	or obstruction	
Observations						
Slight musty odor - microbial growth on edges and inside of student desks, underside of teacher desk, and on all wood surfaces - 2 small spots of microbial growth on bulletin board - Vinyl walls dirty along base - supply grills dirty - ceilings at supply grills dirty-						
Exhaust fan in 511A not working						
Corrective Actions to be Completed	by Site Based Sta	ff	Correc	ctive Action	ns to be Completed by P	РО
Thoroughly clean all surfa		▼	Repa		reduce humidity level	
Clean ceilings around HVAC su	pply grills	▼		Repair ext	haust fan in 511A	▼

Corrective Actions to be completed by the Bassa	
Thoroughly clean all surfaces	▼
Clean ceilings around HVAC supply grills	▼
Clean HVAC supply grills with Wexcide	▼
	▼
	▼
	▼
	▼
	▼

Repair HVAC to reduce humidity level	▼
Repair exhaust fan in 511A	▼
Clean inside of return ducts	▼
	▼
	▼
	▼
	▼
	▼

North Andrews Gardens Elementary	Evaluation Dat	e August 12, 2013	Time of Day 9	:00
Outdoor Conditions Temperature 8	88.1 Relative	Humidity 68.1	Ambient CO2 51	1
Fish Temperature Range F 512 72.3 72 - 78	i	Range CO ² 462	Range # Oc MAX 700 > Ambient	cupants 2
Noticeable Odor No Visi Ceiling 2' X 4' Lay in Walls Drywall/Tackboard	ble water damage / staining? No	Visible microbial growth? No No	Amount of material affected	
Floor 12" x 12" Vinyl	No	No		
Ceiling Clean Yes Walls Clean No	HVAC Supply Grills Clean Inside of Supply	Yes	HVAC Return Grills Clean Inside of Return	Yes
Flooring Clean Yes Room Surfaces No Clean	Duct Clean Ceiling at Supply Grills Clean	Yes	Duct Clean	No
Signs of Pests No Food	Drain Traps Wet d if Stored in Room is	No Yes N/A	Unapproved Chemicals / Cleaners in Room Air Fresheners in Room	No No
Mechanical Equipment Location FISH 506 Filters Installed Properly Yes Condensate Pan Clean Yes	Filters Clean Cooling Coil Clean	Yes Yes	Mechanical Room Clean Inside of HVAC Unit Clean	Yes
Fresh Air Intake Location Pollutant Sources Near Air Intake Mango tre	of Room ees and palm trees	▼	Fresh Air Intake Free of Obstruction	Yes
Observations				
Microbial growth on edges and inside of student desks - dust on walls in front of supply grills - Door to restroom 512A swollen will not close - exhaust fan not working				
Corrective Actions to be Completed by Sit	e Based Staff	Corrective Action	ns to be Completed by PP	0
Thoroughly clean all surfaces	▼		reduce humidity level	▼
Clean ceilings around HVAC supply	grills ▼	·	door to 512A	▼

▼ ▼ ▼ Clean inside of return ducts

North Andrews Gardens Elementary Eval	luation Da	August 12, 201	3 Time of Day 9:00)
Outdoor Conditions Temperature 88.1	Relativ	re Humidity 68.1	Ambient CO2 511	
Fish Temperature Range Relative Hun 513 73.5 72 - 78 62.1	—i		Range # Occu 67 MAX 700 > Ambient	pants 4
Noticeable Odor Yes Visible water da staining?	•	Visible microbial growth?	Amount of material affected	
Ceiling 2' X 4' Lay in No		No		_
Walls Drywall/Tackboard No		No		
Floor 12" x 12" Vinyl No		No		
Ceiling Clean Yes HVAC Su Grills Cle Walls Clean Inside of	ean	Yes	Inside of Return	Yes
Flooring Clean Yes Duct Cle	an	163	Duct Clean	No
Room Surfaces No Ceiling a Clean Grills Cle		No		
Trash Removed Yes Exhaust Fans Signs of Pests No Drain To	Working	No	Unapproved Chemicals / Cleaners in Room	No
Room Cluttered No Food if Stored in Sealed Contai	Room is	Yes N/A	Air Fresheners in Room	No
Mechanical Equipment Location FISH 506			Mechanical Room Clean	Yes
Filters Installed Properly Yes Filter	rs Clean	Yes	Inside of HVAC Unit Clean	Yes
Condensate Pan Clean Yes Cooling Co	oil Clean	Yes		
Fresh Air Intake Location Outside of Room		▼	Fresh Air Intake Free of Obstruction	Yes
Pollutant Sources Near Air Intake Mango trees and pal	lm trees	▼]	
Observations				
Slight musty odor - microbial growth on edges and in growth underside of sink cabinet inside cabinets	side of s	tudent desks, and of	ther wood materials - microbial	
513A - 1 stained ceiling tile - exhaust fan not working				
Corrective Actions to be Completed by Site Based St	aff	Corrective Ac	tions to be Completed by PPO	
Thoroughly clean all surfaces	 ▼		C to reduce humidity level	V
Clean ceilings around HVAC supply grills	▼	·	haust fan in room 513A	▼
	▼	•	of stained ceiling tile in 513A	▼
	▼		nside of return ducts	▼

North Andrews Gardens Elementary Eval	August 12, 2013	Time of Day 9:00		
Outdoor Conditions Temperature 88.1	Relative Humidity 68.1	Ambient CO2 511		
Fish Temperature Range Relative Hun 516 74.1 72 - 78 49.3	30% - 60% CC			
Noticeable Odor No Visible water da staining? Ceiling 2' X 4' Lay in No		Amount of material affected		
Walls Drywall/Tackboard No Floor 12" x 12" Vinyl No	No No			
Ceiling Clean Yes Walls Clean Flooring Clean Room Surfaces Clean Yes HVAC Surfaces Grills Cle Inside of Duct Cle Ceiling a Grills Cle	Supply Yes an Yes	HVAC Return Grills Clean Inside of Return Duct Clean No		
Trash Removed Yes Exhaust Fans Signs of Pests No Drain T Room Cluttered No Food if Stored in in Sealed Contai	raps Wet Yes	Unapproved Chemicals / No Cleaners in Room Air Fresheners in Room		
Mechanical Equipment Location FISH 506 Filters Installed Properly Yes Filter Condensate Pan Clean Yes Cooling Co	rs Clean Yes	Mechanical Room Clean Yes Inside of HVAC Unit Clean Yes		
Fresh Air Intake Location Pollutant Sources Near Air Intake Outside of Room Mango trees and pa	lm trees ▼	Fresh Air Intake Free of Obstruction Yes		
Observations No microbial growth observed - minor dust on surfaces - minor dust on supply grills and ceilings around supply grills - return grill dusty and inside of return box dirty				
Corrective Actions to be Completed by Site Based St		ons to be Completed by PPO		
Clean HVAC supply and return grills with Wexcide Clean ceilings around HVAC supply grills	Repair exh	side of return ducts aust fan in room 516A ▼ ▼		
1	▼	▼		

North Andrews Gardens Elementary Eval	luation Date August 12, 2013 Time of Day 9:00			
Outdoor Conditions Temperature 88.1	Relative Humidity 68.1 Ambient CO2 511			
Fish Temperature Range Relative Hum 517 74.8 72 - 78 51.1	nidity Range CO ² Range # Occupants 30% - 60% 515 MAX 700 > 1 Ambient			
Noticeable Odor No Visible water da staining? Ceiling 2' X 4' Lay in No	unatarial affactad			
Walls Drywall/Tackboard No Floor 12" x 12" Vinyl No	No No			
Ceiling Clean Yes Walls Clean Flooring Clean Yes HVAC Su Grills Cle Grills Cle Inside of Duct Cle	Supply Ves Inside of Return			
Room Surfaces Yes Ceiling a Clean Grills Cle				
Trash Removed Yes Signs of Pests No Drain Track Room Cluttered No Food if Stored in in Sealed Contain	raps Wet Yes Air Fresheners I Room is In Room			
Mechanical Equipment Location FISH 506 Filters Installed Properly Yes Filter Condensate Pan Clean Yes Cooling Co	Mechanical Room Clean Yes rs Clean Yes Inside of HVAC Unit Clean Yes oil Clean Yes			
Fresh Air Intake Location Pollutant Sources Near Air Intake Outside of Room Mango trees and pal	Fresh Air Intake Free of Obstruction The trees To a series of Obstruction The trees The tree of Obstruction The Obstruction The Obstruction The Obstruction The Obstruction T			
Observations No microbial growth observed - minor dust on surfaces - minor dust on supply grills and ceilings around supply grills - return grill dusty and inside of return box dirty				
Corrective Actions to be Completed by Site Based Staff Corrective Actions to be Completed by PPO				
Clean HVAC supply and return grills with Wexcide Clean ceilings around HVAC supply grills	▼ Clean inside of return ducts ▼ ▼ Repair exhaust fan in room 517A ▼ ▼ ▼			

North Andrews Gardens Elementary Eva	aluation Da	te August 12, 2013	Time of Day	9:00
Outdoor Conditions Temperature 88.1	Relative	e Humidity 68.1	Ambient CO2 5	11
Fish Temperature Range Relative Hu 518 74.6 72 - 78 54.2	- i	Range CC 47		ccupants 1
Noticeable Odor No Visible water of staining Ceiling 2' X 4' Lay in No Walls Drywall/Tackboard No	•	Visible microbial growth? No No	Amount of material affected	
Floor 12" x 12" Vinyl No		No		
Flooring Clean Yes Duct Cl	lean of Supply ean at Supply	No Yes No	HVAC Return Grills Clean Inside of Return Duct Clean	No No
Trash Removed Yes Exhaust Fans Signs of Pests No Drain Room Cluttered No Food if Stored in Sealed Conta	Traps Wet	No Yes N/A	Unapproved Chemicals / Cleaners in Room Air Fresheners in Room	No No
	ers Clean	Yes	Mechanical Room Clean Inside of HVAC Unit Clean	Yes
Fresh Air Intake Location Pollutant Sources Near Air Intake Outside of Room Mango trees and page		V	Fresh Air Intake Free of Obstruction	Yes
Observations No microbial growth observed - minor dust on surface - return grill dusty and inside of return box dirty	ces - mino	r dust on supply grill:	s and ceilings around supp	oly grills
Connective Actions to be Commissed by City Board 1	N-66			
Corrective Actions to be Completed by Site Based S Clean HVAC supply and return grills with Wexcide Clean ceilings around HVAC supply grills	V V V	Clean in:	ons to be Completed by Pl side of return ducts aust fan in room 518A	▼ ▼
	▼			▼

North Andrews Gardens Elementary Eva	Iluation Date August 12, 2013 Time of Day 9:00
Outdoor Conditions Temperature 88.1	Relative Humidity 68.1 Ambient CO2 511
Fish Temperature Range Relative Hur 519 74.8 72 - 78 53.6	midity Range CO ² Range # Occupants 30% - 60% 466 MAX 700 > 1 Ambient
Noticeable Odor No Visible water da staining? Ceiling 2' X 4' Lay in No Walls Drywall/Tackboard No	· · · · · · · · · · · · · · · · · · ·
Floor 12" x 12" Vinyl No Ceiling Clean Yes HVAC Start Grills Clean Yes Inside of Duct Clean Yes	f Supply Yes Inside of Return
Room Surfaces Yes Ceiling a Clean Grills Cle	at Supply lean No
Trash Removed Yes Exhaust Fans Signs of Pests No Drain T Room Cluttered No Food if Stored ir in Sealed Contain	Cleaners in Room Air Fresheners In Room is In Room
Mechanical Equipment Location FISH 506 Filters Installed Properly Yes Filte Condensate Pan Clean Yes Cooling Co	Mechanical Room Clean Yes ers Clean Yes Inside of HVAC Unit Clean Yes coil Clean Yes
Fresh Air Intake Location Pollutant Sources Near Air Intake Outside of Room Mango trees and pa	Fresh Air Intake Free of Obstruction Yes
Observations No microbial growth observed - minor dust on surfac - return grill dusty and inside of return box dirty	ces - minor dust on supply grills and ceilings around supply grills
Corrective Actions to be Completed by Site Based St Clean HVAC supply and return grills with Wexcide Clean ceilings around HVAC supply grills	taff Corrective Actions to be Completed by PPO Clean inside of return ducts Repair exhaust fan in room 519A ▼

North Andrews Gard	dens Elementary E	valuation Date	August 12, 2013	Time of Day	9:00
Outdoor Conditions Tem	nperature 88.1	Relative Hum	nidity 68.1	Ambient CO2 5	11
Fish Temperature 524 75.3	Range Relative H 72 - 78 50.8	i			ccupants
Noticeable Odor No	Visible water stainir	uamage /	isible microbial growth?	Amount of material affected	
Ceiling 2' X 4' Lay in	No		No		
Walls Drywall/Tackboa	rd No		No		
Floor 12" x 12" Vinyl	No		No		
Ceiling Clean Yes Walls Clean Yes	Grills	Clean	lo	HVAC Return Grills Clean	No
Flooring Clean Yes	Inside Duct (of Supply Clean	es	Inside of Return Duct Clean	No
Room Surfaces Yes Clean	Ceilin Grills	g at Supply Clean	lo		
Trash Removed Yes	Exhaust Fa		lo	Unapproved Chemicals / Cleaners in Room	No
Signs of Pests No Room Cluttered No	Drain Food if Stored in Sealed Con	d in Room is	es /A	Air Fresheners in Room	No
Mechanical Equipment Locat	tion FISH 506			Mechanical Room Clean	Yes
Filters Installed Properly	Yes Fi	Iters Clean Y	es	Inside of HVAC Unit Clean	Yes
Condensate Pan Clean	Yes Cooling	Coil Clean Y	es		
Fresh Air Intake Location	Outside of Room		▼	Fresh Air Intake Free	Yes
Pollutant Sources Near Air Intake	Mango trees and	palm trees	▼	of Obstruction	
Observations					
No microbial growth observ - return grill dusty and insid		aces - minor dus	t on supply grills	s and ceilings around supp	oly grills
Corrective Actions to be Co				ons to be Completed by Pl	20
Clean HVAC supply and re Clean ceilings around		e ▼		side of return ducts aust fan in room 524A	▼
Olean Cennigs around	TITAO Supply gillis	▼	Mehall exilo	idot iaii iii 100iii 324A	▼
		 			-

North Andrews Gardens Elementary	Evaluation Date	e August 12, 2013	Time of Day 9:00	
Outdoor Conditions Temperature 88.1	Relative	Humidity 68.1	Ambient CO2 511	
		Range <u>CO</u> % - 60 % 476		ants
Ceiling 2' X 4' Lay in Walls Drywall/Tackboard	ater damage / aining? No No	Visible microbial growth? No No No	Amount of material affected	
Walls Clean Flooring Clean Room Surfaces Yes Gi Yes Institute of the state of	/AC Supply rills Clean side of Supply act Clean eiling at Supply rills Clean	No Yes No	Inside of Return	lo lo
Signs of Pests No Food if St	t Fans Working Orain Traps Wet ored in Room is Containers	No Yes N/A		lo lo
Mechanical Equipment Location FISH 506 Filters Installed Properly Yes Condensate Pan Clean Yes Coo	Filters Clean	Yes Yes		es
Fresh Air Intake Location Pollutant Sources Near Air Intake Outside of Roc Mango trees a		▼	Fresh Air Intake Free of Obstruction	es
Observations No microbial growth observed - minor dust on surfaces - minor dust on supply grills and ceilings around supply grills - return grill dusty and inside of return box dirty				
Corrective Actions to be Completed by Site Bas	sed Staff	Corrective Actio	ns to be Completed by PPO	
Clean HVAC supply and return grills with Wex	cide ▼		ide of return ducts	▼
Clean ceilings around HVAC supply grills	▼	Repair exha	ust fan in room 525A	▼

▼

North Andrews Gardens Elem	entary Evaluation Da	te August 12, 2013	Time of Day	9:00
Outdoor Conditions Temperature	88.1 Relative	e Humidity 68.1	Ambient CO2 5	11
Fish Temperature Range 526 76.4 72 - 78	i	Range CO ² % - 60%	Range # Oo MAX 700 > Ambient	ccupants 1
Noticeable Odor No	Visible water damage / staining?	Visible microbial growth?	Amount of material affected	
Ceiling 2' X 4' Lay in Walls Drywall/Tackboard	No	No		
Walls Drywall/Tackboard Floor 12" x 12" Vinyl	No No	No No		
0.350.00			LIVAO Determi	
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	No
Room Surfaces Yes Clean	Ceiling at Supply Grills Clean	No		
Trash Removed Yes	Exhaust Fans Working	No	Unapproved Chemicals / Cleaners in Room	No
Signs of Pests No	Drain Traps Wet	Yes	Air Fresheners	No
Room Cluttered No	in Sealed Containers	N/A	in Room	
Mechanical Equipment Location FIS	H 506		Mechanical Room Clean	Yes
Filters Installed Properly Yes	Filters Clean	Yes	Inside of HVAC Unit Clean	Yes
Condensate Pan Clean Yes	Cooling Coil Clean	Yes		
	side of Room	▼	Fresh Air Intake Free of Obstruction	Yes
Pollutant Sources Near Air Intake	ngo trees and palm trees	▼		
Observations				
No microbial growth observed - mino - return grill dusty and inside of retur		r dust on supply grills	and ceilings around supp	oly grills
Corrective Actions to be Completed	by Site Based Staff	Corrective Actio	ns to be Completed by PF	0
Clean HVAC supply and return grill			ide of return ducts	
Clean ceilings around HVAC su	upply grills ▼	Repair exha	ust fan in room 526A	▼
				 •
	▼			▼

North Andrews Gardens Elementary	Evaluation Dat	e August 12, 2013	Time of Day 9:00	
Outdoor Conditions Temperature 88.1	Relative	Humidity 68.1	Ambient CO2 511	
Fish Temperature Range Relation 527 76.3 72 - 78		Range <u>CO</u> ² % - 60 %		ants
Ceiling 2' X 4' Lay in Walls Drywall/Tackboard	vater damage / aining? No No	Visible microbial growth? No No No	Amount of material affected	
Walls Clean Flooring Clean Room Surfaces Yes G Yes In Co	VAC Supply rills Clean side of Supply uct Clean eiling at Supply rills Clean	No Yes No	Inside of Return	lo lo
Signs of Pests No Food if St	et Fans Working Drain Traps Wet tored in Room is Containers	No Yes N/A		lo lo
Mechanical Equipment Location FISH 506 Filters Installed Properly Yes Condensate Pan Clean Yes Coo	Filters Clean	Yes Yes	=	es es
Fresh Air Intake Location Pollutant Sources Near Air Intake Outside of Ro Mango trees a		▼	Fresh Air Intake Free of Obstruction	es
Observations No microbial growth observed - minor dust on served - return grill dusty and inside of return box dirty		dust on supply grills	and ceilings around supply g	rills
Corrective Actions to be Completed by Site Based Staff Corrective Actions to be Completed by PPO				
Clean HVAC supply and return grills with Wex			ide of return ducts	▼
Clean ceilings around HVAC supply grills	; ▼ ▼	Repair exha	ust fan in room 527A	▼

▼

North Andrews Gardens Elementary Eval	uation Date	August 12, 2013	Time of Day	9:00		
Outdoor Conditions Temperature 88.1	Relative H	umidity 68.1	Ambient CO2 5	11		
Fish Temperature Range Relative Hum 528 76.4 72 - 78 54.4	nidity Rai	nge <u>C0</u> 60% 46	_	ccupants 1		
Noticeable Odor No Visible water da staining? Ceiling 2' X 4' Lay in No Walls Drywall/Tackboard No Floor 12" x 12" Vinyl No	_	Visible microbial growth? No No No	Amount of material affected			
Ceiling Clean Yes Walls Clean Flooring Clean Room Surfaces Clean HVAC Surfaces Grills Clean Inside of Duct Clean Ceiling a Grills Clean	Supply [an L	No Yes No	HVAC Return Grills Clean Inside of Return Duct Clean	No No		
Trash Removed Yes Exhaust Fans Signs of Pests No Drain To Room Cluttered No Food if Stored in in Sealed Contain	raps Wet [No Yes	Unapproved Chemicals / Cleaners in Room Air Fresheners in Room	No No		
Mechanical Equipment Location FISH 506 Filters Installed Properly Yes Filter Condensate Pan Clean Yes Cooling Co	rs Clean [Yes Yes	Mechanical Room Clean Inside of HVAC Unit Clean	Yes		
Fresh Air Intake Location Pollutant Sources Near Air Intake Outside of Room Mango trees and pal	m trees	▼	Fresh Air Intake Free of Obstruction	Yes		
Observations No microbial growth observed - minor dust on surfaces - minor dust on supply grills and ceilings around supply grills - return grill dusty and inside of return box dirty						
Corrective Actions to be Completed by Site Based St Clean HVAC supply and return grills with Wexcide Clean ceilings around HVAC supply grills	aff	Clean in	ions to be Completed by PF side of return ducts aust fan in room 528A	PO		

North Andrews Gardens Elementary	Evaluation Date August 15, 2013	Time of Day 3:00
Outdoor Conditions Temperature	Relative Humidity	Ambient CO2
Fish Temperature Range Relative Bldg 5 72 - 78	Humidity Range <u>CO²</u> 30% - 60%	Range # Occupants MAX 700 > Ambient
	ter damage / Visible microbial ming? growth?	Amount of material affected
Walls Clean Flooring Clean Room Surfaces Grill Inside Ceil	AC Supply Is Clean de of Supply It Clean ling at Supply Is Clean	HVAC Return Grills Clean Inside of Return Duct Clean
Signs of Pests Dra	Fans Working ain Traps Wet red in Room is ontainers	Unapproved Chemicals / Cleaners in Room Air Fresheners in Room
. , 🔚	Filters Clean I	Mechanical Room Clean nside of HVAC Unit Clean
Fresh Air Intake Location Pollutant Sources Near Air Intake	▼	Fresh Air Intake Free of Obstruction
Observations Follow up to 8/12/13 assessment - Checked humine 56% - PPO on site to clean HVAC supply and retu		
Corrective Actions to be Completed by Site Base		s to be Completed by PPO
	V	▼ ▼
	V V	▼
	V V V V V V V V V V	▼ ▼
	▼	▼