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

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December 12	, 2022 Signa	ture on File	<u>Fo</u>	r Custodial Supervisor Use Only
				Custodial Issues Addressed
ТО	Dacyany Ibarrondo, Principal Ramblewood Elementary School			Custodial Issues Not Addressed
FROM:	Carol Gagnon, Project Manager Environmental Health & Safety Depar	tment		
SUBJECT:	Indoor Air Quality (IAQ) Assessment	l		-

On December 8th and 12th, 2022, I conducted an assessment at **Ramblewood Elementary School, Building 2.** Attached are findings and recommendations.

This IAQ Assessment did not identify any existing conditions impacting IAQ resulting from the circumstances identified during the 2022 Thanksgiving Break. However, adjustments to the HVAC system continue as part of the SMART program scope of work. Recommendations were identified for building occupants (i.e. reduce personal items and clutter) to support on-site staff cleaning operations.

Due to individual sensitivities and predisposing health factors, it is possible that some building occupants may elicit a health response to allergens and/or conditions noted 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 any item/s identified and noted 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 MAXIMO. 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.

CG: lb Enc.

cc: Sam Bays, Task Assigned Executive Director, Facilities & Construction Management Shelley Meloni, Director, Pre-Construction
Greg Neiman, Area Supervisor, Zone 1
Scott Gillen, Manager, Zone 2
Dale Spear, Manager, Zone 3
Allen Behnke, Area Manager Trades
Benjamin Osborne, Manager Custodial
Broward Teachers Union

Federation of Public Employees

	Ramblev	vood Eleme	entary Scho	Evaluation Da	December 12, 2	Time of Day	7:30
Outdooi	r Conditions	Tempe	rature	65.5 Relativ	ve Humidity 86.5	Ambient Co	O2 487
FISH	H Ten	nperature	Range	Relative Humid	ity Range	CO2	Range
INF	0 [72 - 78		30% - 60%	M.	AX 700 > Ambient
Notice	eable Odor		v	isible water damage / staining?	Visible Spotting?	Amoun material at	
Ceiling	ı						
Walls							
Floor							
Follow	up inspectio	n from 12/8	3/2022.				
Building	g still not oc	cupied.					
Odor pr	resent in hall	way upon l	building e	ntry is of new/replace	ed building material	s and multiple cleanir	ng processes.
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	_		_	Dalativa Uvosidit			
FISH		perature 35.0	Range	Relative Humidit	•	CO2	Range
2-201		55.0	72 - 78	62.7	30% - 60%		X 700 > Ambient
Noticea	ble Odor	No	Vis	sible water damage / staining?	Visible Spotting?	Amount material affo	
Ceiling	2' X 2'	Lay in]	No	No		
Walls	Drywall/T	ackboard]	No	No		
Floor	12" x 12	2" Vinyl]	No	No		
Room to	oo cluttered to	o clean prop	erly. Room	n had fake plants. Roor	n had stuffed animal	s which become dust re	servoirs.
FISH	Tem	perature	Range	Relative Humidit	y Range	CO2	Range
2-207		65.0	72 - 78	63.3	30% - 60%	487 MAX	X 700 > Ambient
Noticea	able Odor	No	Vis	sible water damage / staining?	Visible Spotting?	Amount material affo	
Ceiling	2' X 2'	Lay in]	No	No		
Walls	Drywall/T	ackboard]	No	No		
Floor	12" x 12	2" Vinyl]	No	No		
Room h	ad fake plant	s. Room ha	d stuffed a	nimals which become o	dust reservoirs.		

Ramblewood Eleme	entary School	Evaluation Date Dece	mber 12, 2022 Time o	of Day 7:30
Outdoor Conditions Tempe	erature 65.5	Relative Humidit	ty 86.8 Ambie	ent CO2 487
FISH Temperature 2-208 65.6 Noticeable Odor No Ceiling 2' X 2' Lay in Walls Drywall/Tackboard Floor 12" x 12" Vinyl Room had fake plants. Room I chemicals (spray perfumes).	72 - 78 Visible wate stain No No	62.9 30% or damage / sing? [No Mo	Range MAX 700 > Ambient Amount of erial affected ve non approved
FISH Temperature 2-209 64.7 Noticeable Odor No Ceiling 2' X 2' Lay in Walls Drywall/Tackboard Floor 12" x 12" Vinyl Room had cardboard boxes. Ro Remove non approved chemica	Visible water staining No No No No mad stuffed anima	Spo	60% 494 sible An mater No No No	Range MAX 700 > Ambient mount of rial affected in sealed containers.
FISH Temperature 2-210 64.4 Noticeable Odor No Ceiling 2' X 2' Lay in Walls Drywall/Tackboard Floor 12" x 12" Vinyl Room had cardboard boxes.	Range Rela 72 - 78 Visible water stainin No No No	gg? Spo	60% 496 sible An	Range MAX 700 > Ambient nount of rial affected

Ramblewood Eleme	entary School Evalua	tion Date December 12, 2	2022 Time of Day 7:30
Outdoor Conditions Tempe	erature 65.5	Relative Humidity 86.	8 Ambient CO2 487
FISH Temperature 2-211 66.4 Noticeable Odor Yes Ceiling 2' X 2' Lay in Walls Drywall/Tackboard Floor 12" x 12" Vinyl Odor present from new ceiling	Range Relative F 72 - 78 64.8 Visible water dama staining? No No No No Itiles in room.	30% - 60%	CO2 Range 529 MAX 700 > Ambient Amount of material affected
FISH Temperature 2-213 67.9 Noticeable Odor No Ceiling 2' X 2' Lay in Walls Drywall/Tackboard Floor 12" x 12" Vinyl Room had cardboard boxes. Ru	Range Relative Hu 72 - 78 58.4 Visible water damage staining? No No No No n water into sink drains on a	30% - 60% ge / Visible Spotting? No No No	CO2 Range 568 MAX 700 > Ambient Amount of material affected
FISH Temperature 2-215 68.5 Noticeable Odor No Ceiling 2' X 2' Lay in Walls Drywall/Tackboard Floor 12" x 12" Vinyl Room had cardboard boxes.	Range Relative He 72 - 78 60.6 Visible water damage staining? No No No	30% - 60%	CO2 Range 545 MAX 700 > Ambient Amount of material affected

	Ramb	lewood Eleme	entary School	Evaluation Date	December 12, 20	Time o	of Day 7:30
Outdoor	Condition	ns Tempe	erature	65.5 Relative	Humidity 86.8	Ambi	ent CO2 487
FISH 2-21		emperature 69.3	Range 72 - 78	Relative Humidity 56.1	Range 30% - 60%	CO2 526	Range MAX 700 > Ambient
Notice	able Odor	No	Vis	ible water damage / staining?	Visible Spotting?		Amount of erial affected
Ceiling	2' 2	X 2' Lay in		No	No		
Walls	Drywa	all/Tackboard		No	No		
Floor	12"	x 12" Vinyl		No	No		
				own liquid. Call in wor	·		
FISH	Te	mperature	Range	Relative Humidity	Range	CO2	Range
2-218		69.5	72 - 78	56.5	30% - 60%	545	MAX 700 > Ambient
Noticea	ble Odor	No	Visik	ole water damage / staining?	Visible Spotting?		nount of rial affected
Ceiling	2' X	2' Lay in]	No	No		
Walls		I/Tackboard	<u></u>	No	No No		
Floor		12" Vinyl	<u> </u>	No nad fake plants. Room h	No No		<u></u>
	dust reser		,	,			
FISH 2-216	Te	mperature	Range 72 - 78	Relative Humidity 59.6	Range 30% - 60%	CO2 516	Range MAX 700 > Ambient
	ble Odor	No		ole water damage /	Visible Spotting?	Ar	nount of
Ceiling	2' X	2' Lay in]	No	No		
Walls	Drywal	l/Tackboard]	No	No		
Floor	Co	oncrete]	No	No		
1			•	nad fake plants. Room h ealed containers.	nad cardboard boxe	es. Room had st	uffed animals which

Ramblewood Eleme	entary School E	Evaluation Date Decemb	per 12, 2022 Time of	f Day 7:30
Outdoor Conditions Tempo	erature 65.5	Relative Humidity	86.8 Ambie	nt CO2 487
FISH Temperature 2-214 69.9 Noticeable Odor No Ceiling 2' X 2' Lay in Walls Drywall/Tackboard Floor 12" x 12" Vinyl Room too cluttered to clean preservoirs.	72 - 78 Visible wate staini No No	ng? Spot	ible Aiting? mate	Range MAX 700 > Ambient mount of rial affected ich become dust
FISH Temperature 2-212 69.5 Noticeable Odor No Ceiling 2' X 2' Lay in Walls Drywall/Tackboard Floor 12" x 12" Vinyl			ole Am materi	Range MAX 700 > Ambient ount of al affected
FISH Temperature 2-215B Noticeable Odor No Ceiling metal Walls Drywall Floor Concrete Mechanical room with AHU 2-4 Need to remove paper tag on bl	72 - 78 Visible water staining No No No		ole Am materi	Range MAX 700 > Ambient ount of al affected

Ramblewood Elem	entary School Evaluation	on Date December 12, 20	22 Time of Day 7:30
Outdoor Conditions Temp	erature 65.5 Re	elative Humidity 86.8	Ambient CO2 487
FISH Temperature 2-217C Noticeable Odor No Ceiling metal Walls Drywall Floor Concrete Mechanical room with AHU 2- Need to remove paper tag on		30% - 60%	CO2 Range MAX 700 > Ambient Amount of material affected
FISH Temperature Noticeable Odor Ceiling Walls Floor	Range Relative Hur 72 - 78 Visible water damage staining?	30% - 60%	CO2 Range MAX 700 > Ambient Amount of material affected
FISH Temperature Noticeable Odor Ceiling Walls Floor	Range Relative Hur 72 - 78 Visible water damage staining?	30% - 60%	CO2 Range MAX 700 > Ambient Amount of material affected

Ramblewood Elementary School IAQ inspection building 2 on 12/12/2022				
Corrective actions to be completed by site based staff	FISH			
Remove cardboard boxes, store in plastic containers	208, 209, 210, 213, 214, 215, 216, 218			
Room too cluttered to clean properly/reduce clutter	201, 214, 216, 218			
Remove/clean fake plants in room	201, 207, 208, 216, 218			
Remove stuffed animals from room, allergen source	201, 207, 209, 214, 216, 218			
Store food in sealed containers	208, 209, 216			
Remove unlabeled spray bottle with liquid	217			
Call in order for pest control	217			
Run water in sinks on monthly basis	213			
Remove non approved chemicals (spray perfumes)	208, 209			

Corrective actions to be completed by SMART/AECOM	FISH
Evaluate HVAC set temperature 72-78 degrees	201, 207, 208, 209, 210, 211
Repair HVAC to reduce humidity levels	201, 207, 208, 209, 210, 211
Remove paper tag on blower wheel inside AHU	215B, 217C