

1818 New York Ave. NE, Ste 231, Washington, DC 20002

Telephone: (301) 595-3783 www.salutinc.com

June 7, 2019

Prince George's County Public School (PGCPS) Environmental Safety Office 13306 Old Marlboro Pike Upper Marlboro, MD 20772

Attention: Alex Baylor <u>alex.baylor@pgcps.org</u>

Subject: Indoor Air Quality Survey Clinton Grove Elementary School 9420 Temple Hills Road Clinton, MD 20735

Mr. Baylor:

On May 15, 2019, a Soil and Land Use Technology, Inc. (SaLUT) Industrial Hygienist conducted an indoor air quality (IAQ) evaluation at Clinton Grove Elementary School, a property maintained by Prince George's County Public School (PGCPS), located at 9420 Temple Hills Road, Clinton, MD 20735. The inspection was performed in accordance with PGPCS contract number IFB 022-19.

Methodology

The IAQ evaluation conducted by SaLUT included a visual assessment, IAQ instrumentation screening, and a collection of interior air samples for mold in representative locations throughout the building. Additionally, one building exterior environmental air sample was taken for comparison.

Air-borne fungal spore samples were collected on *Air-O-Cell* cassettes using a Buck BioAire calibrated pump. The air samples were taken between three and five feet from the ground. In tandem with collecting mold samples, real-time readings for carbon dioxide, carbon monoxide, temperature and relative humidity were collected using a Fluke 975 Air Meter in representative areas within the facility. A MiniRAE 3000photoionization detector (PID), was used to measure total volatile organic compounds (TVOC).

Respirable particulate in air (size classes PM2.5 μ and PM10 μ) was measured using the Particles Plus 8306 Handheld Particle Counter which was calibrated prior to sampling.



The fungal spore air samples were delivered to EMSL Analytical, Inc. of Beltsville, Maryland for analysis. Fungal spores and particulates in air samples were analyzed by Optical Microscopy (methods EMSL 05-TP-003 and ASTM D7391). The sample chain-of-custody and laboratory reports are attached.

Observations

The table below summarizes the main observations from the IAQ survey at Clinton Grove Elementary School, visited on May 15, 2019.

Location	Summary of Observations 5-15-2019					
Main Office	2'x4' ceiling tiles and 1'x1' tile floor;					
	No visual signs of microbial growth, and no odor;					
	No visible dust on floor/other furniture surfaces;					
	Unit ventilator and HVAC system.					
Cafeteria	1'x1' ceiling tiles and 1'x1' tile floor;					
	One stained ceiling tile;					
	No visual signs of microbial growth, and no odor;					
	No visible dust on floor/other furniture surfaces;					
	Unit ventilator and HVAC system.					
Classroom 201	1'x1' ceiling tiles and 1'x1' tile floor;					
	No visual signs of microbial growth, and no odor;					
	No visible dust on floor/other furniture surfaces;					
	Unit ventilator and HVAC system.					
Classroom 206	1'x1' ceiling tiles and 1'x1' tile floor;					
	No visual signs of microbial growth, and no odor;					
	No visible dust on floor/other furniture surfaces;					
	Unit ventilator and HVAC system.					
Media Center	2'x2' ceiling tiles and 1'x1' tile floor;					
	Two stained ceiling tiles;					
	No visual signs of microbial growth, and no odor;					
	No visible dust on floor/other furniture surfaces;					
	Unit ventilator and HVAC system.					

Table 1-Observations

Measurements of Indoor Environmental Quality Parameters

Table 2 depicts a summary of average measurements of comfort parameters and respirable particulates.

Temperature

The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) have published recommendations for year round acceptable temperatures in Standard 55-2010 *Thermal Environmental Conditions for Human Occupancy*. The winter comfort range is 20 to 24°C (68 to 75°F) and 23 to 26°C (73 to 79°F) is the summer comfort range. The temperature readings were within the ASHRAE recommended ranges in the



representative spaces with the exception of the some readings which were lower than the ASHRAE comfort level.

Relative Humidity (RH)

RH is a key factor for mold growth. Mold has the potential of growing on suitable surfaces with humidity levels above 60%. ASHRAE Standard 62.1-2010 *Ventilation for Acceptable Indoor Air Quality* recommends a maximum indoor RH of 65% to preclude the likelihood of condensation on cool surfaces encouraging mold growth. The RH readings were within the ASHRAE recommended ranges in the representative areas.

Carbon Dioxide (CO₂)

Under conditions of maximum occupancy, ASHRAE Standard 62.1-2010, Appendix C, infers that the acceptable CO_2 upper limit is the prevailing outdoor CO_2 concentration plus 700 parts per million (ppm). On the day of the space evaluation, the outdoor (building exterior) CO_2 concentration was approximately 549 ppm therefore indoor concentrations should not exceed approximately 1,249 ppm (700 + 549). The maximum average interior CO_2 concentration detected was 1,199 ppm in the Classroom 201 area, a range within the ASHRAE recommendations, per Table 2 below.

Carbon Monoxide (CO)

CO is a colorless and odorless gas that is produced by the incomplete combustion of carbon containing fuels. Oil, gasoline, diesel fuels, wood, coke, and coal are major sources of CO. All registered CO concentrations were below the EPA National Ambient Air Quality Standard (NAAQS) of 9 ppm, per Table 2 below.

Respirable Particulates

Direct reading particulate monitoring did not identify a condition of concern. Particulate concentrations for two mass ranges with EPA ambient air quality guidelines (PM2.5 and PM10) were below their respective NAAQS levels. On May 15, 2019, the highest average PM2.5 concentration during the monitoring period was 0.004 mg/m³ (3 μ g/m³) in Classroom 214. This is compared to the NAAQS primary standard for PM2.5 of 12 μ g/m³ annual mean. The highest average PM10 concentration during the same period was 0.087 mg/m³ (87 μ g/m³) in the Main Office. This is compared to the NAAQS standard for PM10 of 150 μ g/m³ 24 hour average.

Total Volatile Organic Chemicals (TVOC)

LEED's standard of 500 μ g/m³ for TVOC (ANSI/ASHRAE Standard 62.1-2010) concentrations per the instrument's level of detection for a healthy commercial building were used as the standard for TVOCs for this survey. Concentrations below this value can be considered as "background levels" and, at such low concentrations, they are extremely unlikely to cause any adverse health conditions to the occupants. Generally,



values below 3000 μ g/m³ are unlikely to cause more than mild irritation or headaches, but to date no recognized industry standard has been established for TVOCs. Perfumes, colognes, and air fresheners as well as certain cleaning chemicals can all cause temporary increases in TVOC readings. TVOC readings cannot be used to establish OSHA limits on specific VOCs or be attributed to specific compounds.

Table 2: Clinton Grove Elementary School Instrumental Screening Levels

		wiay	15, 2019				
Sample Location	Temp ⁰ F	RH%	CO ppm	CO ₂ ppm	PM 2.5 mg/m ³	PM 10 mg/m ³	TVOC ppm
Standards	ASHRAE 73 to 79°F*	ASHRAE <65%	NAAQS 9	ASHRAE 1,249	NAAQS 0.012	NAAQS 0.150	1.0
Main Office	76.1	45.5	0	841	0.003	0.087	0
Cafeteria	69.8	53.2	0	773	0.003	0.044	0
Classroom 201	69.8	50.8	0	1199	0.004	0.055	0
Classroom 206	68.6	45.1	0	746	0.002	0.015	0
Media Center	70.7	47.9	0	948	0.003	0.038	0
Exterior of the building- Next to the entrance	67.1	47.9	0	549	0.003	0.051	0

May 15, 2019

PM – Particulate Matter size °F – Degrees Fahrenheit CO - Carbon Monoxide ppm - parts per million μg/m³ – Micrograms per cubic meter RH% - % Relative Humidity CO₂ - Carbon Dioxide * - Summer Comfort Range

Mold-in-Air Samples

There are no definitive regulations or standardized guidelines for addressing airborne mold in an indoor setting. If building systems (ventilation, envelope) are functioning properly, the indoor population profile should mimic what is encountered outdoors and the concentrations should be below the outdoor (building exterior) environmental sample levels.

Tables 3 summarizes airborne mold spore sampling results and locations. On May 15, 2019, total mold counts in representative samples (spore count/ m^3 of air) in all the areas inspected were lower than the outdoor concentrations. Laboratory analysis follows this report (see attachment).



Table 3: Clinton Grove Elementary School - Measurements of Mold-in-Air SamplesMay 15, 2019

		viay 15, 2017		
Spore Types	Outdoor next to the Building Entrance Area	Main Office	Cafeteria	Classroom 201
Alternaria (Ulocladium)	-	40	-	-
Ascospores	2,500	1,800	1,200	100
Aspergillus/Penicillium	-	-	90	40
Basidiospores	8,730	1,700	3,400	1,100
Bipolaris++	-	-	-	-
Chaetomium	-	-	-	-
Cladosporium	1,200	90	200	90
Curvularia	-	-	-	-
Epicoccum	40	90	-	-
Fusarium	-	-	-	-
Ganoderma	-	-	-	-
Myxomycetes++	100	40	-	-
Pithomyces++	-	-	-	-
Rust	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-
Unidentifiable Spores	-	-	-	-
Zygomycetes	-	-	-	-
Hyphal Fragment	100	90	100	100
Insect Fragment	-	-	-	-
Pollen	-	-	-	-
Total Fungi	12,570	3,760	4,890	1,330

* Spore Counts per cubic meter of air (Counts/m³)



Table 3: Clinton Grove Elementary School - Measurements of Mold-in-Air Samples continued

Spore Types	May 15, 2 Classroom 206	Media Center	Field Blank
Alternaria (Ulocladium)	-	-	-
Ascospores	200	1,300	-
Aspergillus/Penicillium	-	-	-
Basidiospores	2,000	2,400	-
Bipolaris++	-	-	-
Chaetomium	-	-	-
Cladosporium	90	570	-
Curvularia	-	-	-
Epicoccum	-	-	-
Fusarium	-	-	-
Ganoderma	-	-	-
Myxomycetes++	-	-	-
Pithomyces++	-	-	-
Rust	-	-	-
Scopulariopsis/Microascus	-	-	-
Stachybotrys/Memnoniella	-	-	-
Unidentifiable Spores	-	-	-
Zygomycetes	-	-	-
Hyphal Fragment	100	90	-
Insect Fragment	-	-	-
Pollen	-	-	-
Total Fungi	2,290	4,270	No Trace

* Spore Counts per cubic meter of air (Counts/m³)

Findings and Conclusions

The comfort parameters (i.e., temperature, RH, CO₂, and CO levels) and respirable particulates in the representative areas conform to ASHRAE and/or NAAQS guidelines with the exception of some readings which were lower than the ASHRAE comfort level. On May 15, 2019, total mold counts in representative area samples (spore count/m³ of air) in all the areas inspected were lower than the outdoor concentrations, not indicating amplified mold growth.

Recommendations

Based on the observations, mold spore results, and the results of the indoor air quality parameters tested, we have no recommendations at this time.



Page 7 of 7

Thank you for the opportunity to provide industrial hygiene services for PGCPS. If you have any questions, please contact me at 301.595.3783.

Sincerely,

Jugateshaka.

Chaminda Jayatilake, PE, CIH, CSP, CHMM Certified Industrial Hygienist Soil and Land Use Technology Inc. (SaLUT)

Attachment

Attachment - Mold Spore Sample Analytical Results and Chain-of-Custody Forms

Attachment

Mold Spore Sample Analytical Results and Chain-of-Custody Forms



EMSL Analytical, Inc.

1818 New York Avenue, NE

Washington, DC 20002 **Project:** PGPCS IAQ/19-035 Clinton Grove ES

Attn: Indika Jayatilake SaLUT

Suite 218A

2500 Gateway Centre Blvd., Suite 600 Morrisville, NC 27560 Tel/Fax: (919) 465-3900 / (919) 465-3950 http://www.EMSL.com / raleighlab@emsl.com

EMSL Order:	291905200
Customer ID:	SALU50
Customer PO:	
Project ID:	

 Phone:
 (301) 595-3783

 Fax:
 (301) 595-3787

 Collected:
 05/15/2019

 Received:
 05/15/2019

 Analyzed:
 05/20/2019

Test Repo	Test Report: Air-O-Cell(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)										
Lab Sample Number: Client Sample ID: Volume (L): Sample Location	28394335 75			291905200-0002 28394287 75 Inside the Cafeteria Area			291905200-0003 28394314 75 Inside the Classroom 201 Area				
Spore Types	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total		
Alternaria (Ulocladium)	1	40	1.1	-	-	-	-	-	-		
Ascospores	41	1800	47.9	28	1200	24.5	3	100	7.5		
Aspergillus/Penicillium	-	-	-	2	90	1.8	1	40	3		
Basidiospores	38	1700	45.2	79	3400	69.5	26	1100	82.7		
Bipolaris++	-	-	-	-	-	-	-	-	-		
Chaetomium	-	-	-	-	-	-	-	-	-		
Cladosporium	2	90	2.4	4	200	4.1	2	90	6.8		
Curvularia	-	-	-	-	-	-	-	-	-		
Epicoccum	2	90	2.4	-	-	-	-	-	-		
Fusarium	-	-	-	-	-	-	-	-	-		
Ganoderma	-	-	-	-	-	-	-	-	-		
Myxomycetes++	1	40	1.1	-	-	-	-	-	-		
Pithomyces++	-	-	-	-	-	-	-	-	-		
Rust	-	-	-	-	-	-	-	-	-		
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-		
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-		
Unidentifiable Spores	-	-	-	-	-	-	-	-	-		
Zygomycetes	-	-	-	-	-	-	-	-	-		
Total Fungi	85	3760	100	113	4890	100	32	1330	100		
Hyphal Fragment	2	90	-	3	100	-	3	100	-		
Insect Fragment	-	-	-	-	-	-	-	-	-		
Pollen	-	-	-	-	-	-	-	-	-		
Analyt. Sensitivity 600x	-	44	-	-	44	-	-	44	-		
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-		
Skin Fragments (1-4)	-	3	-	-	3	-	-	3	-		
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-		
Background (1-5)	-	3	-	-	2	-	-	1	-		

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

Ilar

Alan Goldstein, Ph.D., Laboratory Manager or other approved signatory

High levels of background particulate can obscure spores and other particulates leading to underestimation. Background levels of 5 indicate an overloading of background particulates, prohibiting accurate detection and quantification. Present = Spores detected on overloaded samples. Results are not blank corrected unless otherwise noted. The detection limit is equal to one fungal spore, structure, pollen, fiber particle or insect fragment. "" Denotes particles found at 300X. "" Denotes not detected. Due to method stopping rules, raw counts in excess of 100 are extrapolated based on the percentage analyzed. EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless othewise noted.

Samples analyzed by EMSL Analytical, Inc. Morrisville, NC AIHA-LAP, LLC--EMLAP Lab 173741

Initial report from: 05/20/2019 16:03:43

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EMSL Analytical, Inc.

1818 New York Avenue, NE

Washington, DC 20002 **Project:** PGPCS IAQ/19-035 Clinton Grove ES

Attn: Indika Jayatilake SaLUT

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EMSL Order:	291905200
Customer ID:	SALU50
Customer PO:	
Project ID:	

 Phone:
 (301) 595-3783

 Fax:
 (301) 595-3787

 Collected:
 05/15/2019

 Received:
 05/15/2019

 Analyzed:
 05/20/2019

Lab Sample Number: Client Sample ID: Volume (L): Sample Location		291905200-0004 28394316 75 Inside the Classroom 206			291905200-0005 28394284 75 Inside the Media Center Area			291905200-0006 28394341 75 le Exterior EV S	
Spore Types	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total
Alternaria (Ulocladium)	- '	-	-	-	-	-	-	-	-
Ascospores	5	200	8.7	30	1300	30.4	58	2500	19.9
Aspergillus/Penicillium	-	-	-	-	-	-	-	-	-
Basidiospores	45	2000	87.3	54	2400	56.2	200	8730	69.5
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	2	90	3.9	13	570	13.3	28	1200	9.5
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	1	40	0.3
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	3	100	0.8
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	52	2290	100	97	4270	100	290	12570	100
Hyphal Fragment	3	100	-	2	90	-	3	100	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	44	-	-	44	-	-	44	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	2	-	-	3	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	2	-	-	2	-	-	1	-

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

Alar

Alan Goldstein, Ph.D., Laboratory Manager or other approved signatory

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Attn: Indika Jayatilake SaLUT 1818 New York Avenue, NE Suite 218A Washington, DC 20002 Project: PGPCS IAQ/19-035 Clinton Grove ES
 Phone:
 (301) 595-3783

 Fax:
 (301) 595-3787

 Collected:
 05/15/2019

 Received:
 05/15/2019

 Analyzed:
 05/20/2019

Lab Sample Number: Client Sample ID: Volume (L): Sample Location	:	291905200-0007 28394302 Field Blank	,						
Spore Types	Raw Count	Count/m ³	% of Total	-	-	-	-	-	
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	-			-		
Aspergillus/Penicillium	-	-	-	-			-		
Basidiospores	-	-	-	-			-		
Bipolaris++	-	-	-	-			-		
Chaetomium	-	-	-	-			-		
Cladosporium	-	-	-	-			-		
Curvularia	-	-	-	-			-		
Epicoccum	-	-	-	-			-		
Fusarium	-	-	-	-			-		
Ganoderma	-	-	-	-			-		
Myxomycetes++	-	-	-	-			-		
Pithomyces++	-	-	-	-			-		
Rust	-	-	-	-			-		
Scopulariopsis/Microascus	-	-	-	-			-		
Stachybotrys/Memnoniella	-	-	-	-			-		
Unidentifiable Spores	-	-	-	-			-		
Zygomycetes	-	-	-	-			-		
Total Fungi	-	No Trace	-	-			_		
Hyphal Fragment	-	-	-	-			-		
Insect Fragment	-	-	-	-			-		
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	0	-	-	-	-	-	-	-
Analyt. Sensitivity 300x	-	0*	-	-			-		
Skin Fragments (1-4)	-	-	-	-			-		
Fibrous Particulate (1-4)	-	-	-	-			-		
Background (1-5)	-	-	_				_		

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

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Alan Goldstein, Ph.D., Laboratory Manager or other approved signatory

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Initial report from: 05/20/2019 16:03:43

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- I-	Street: 1818 New `							uthorization from t		
- I-	City: Washington	<u> </u>	ate/Province: DC		Zip/Postal Co			Country:	<u></u>	
-	Report To (Name):				Telephone #:			county:		
	Email Address: ijay				Fax #:			Purchase Ord	er"	
			Q/19-035 Clinton (Grove ES	Please Provid			Email		
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┝	M001 Air-O-Cell	M174 Mol		licrobiology M024 Pseudon	nonas aeruginosa	(MFT•)	M115 Sewa	age Screen - Wate	er (P/A***)	
- 1-	M030 Micro 5	M032 Alle	·	M015 Heterotro	ophic Plate Count liferm & E. coli (Co	· ·	M116 Sewa	age Screen - Wate age Screen - Swal	er (MPN**)	
- 1	M041 Fungal Direct Ex			P/A***)	•	1	M013 Sewa	age Screen - Swal	o (MFT*)	
	M169 Pollen ID & Enur M280 Dust Characteriz				liform & E. coli (Mi liform & E. coli Eni		M133 Meth (MRSA)	icillin-resistant Sta	iph, aureus	
	M281 Dust Characteriz	zation Level-2		(Colilert MPN** M019 Fecal Co		ļ		id-growing non-TB Mycobacteria & Enumeration		
ļ	M005 Viable Fungi- Ail M006 Viable Fungi- Ail	r Samples (Genus r Samples (Includ	ID & Count) es Penicillium,	M020 Fecal St	reptococcus (MFT)	*)	M014 Endo	otoxin Analysis		
	Aspergillus, Cladospor M007 Culturable fungi	ium, Stachybotrys	Species ID & Count)	M029 Enteroco M129 Enteroco	occi (MFT*) occi (Enterolert P/A	***)	M044 Group Allergen (Cat, Dog, Co Dust Mite)			
1	M008 Culturable fungi	- Surface Sample	s (Includes	M180 Real Tim Panel	ie qPCR-ERMI 36		Other See	Analytical Price Guide Analysis Please use EMSL		
	Penicillium, Aspergillus ID & Count)	s, Cladosporium, S	Stachybotrys Species		ScreenWater (M	Legionella				
	M009 Bacteria Culture M010 Bacteria Count &			*MFT= Membrane Filtration Technique						
	M011 Bacteria Count &	& ID - 5 Most Pron	ninent	**MPN= Most I ***P/A= Preser	Probable Number					
ł	M012 Pseudomonas a Name of Sampler:					amplari	1 Miles	(4 white)		
ŀ		onamina osyana		<u>_</u>	Signature of S Potable/	ampier.	-	21.700000	Temperature	
1	Sample #	Sample Loca	ation/Description	Sample Type	NonPotable (only for	Test Code	Volume/ Area	Date/Time Collected	("C) (Lab Use	
					waters)				Only)	
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ł	28394335	Inside the I	Main Office area	Air		M001	75L	5-15-2019 10:30AM-1-30PM		
1	1 28394335287	Inside the	Cafeteria area	Air		M001	75L			
Þ	28394314	Inside the Cl	assroom 201 area	Air		M001	75L	n		
Ī	28394316	Inside the Cl	assroom 206 area	Air		M001	75L	"		
Ī	28394284	Inside the M	ledia Center area	Air		M001	75L	n		
	28394341	Outside ext	terior EV sample	Air		M001	75L	и 	2	
ſ	Client Sample # (s): -		otal # of Sam	oles:	Samples	Received	Chilled? Yes /N	•	
ł						ſ	Time:		Only)	
ł	Relinquished (Clie Received (Lab): 7		Un Oli On	Dat		2	Time: 3	:// hul		
ŀ	Comments/Specia					,		<u> </u>		
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			Pac	ge 1 Of	2				· · · · · · · · · · · · · · · · · · ·	



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 SaLUT

 PGPCS IAQ/19-035 Clinton Grove ES

 5/15/2019 15:10
 TAT: 1 Week

 M001 Air-O-Cell
 Air

Order No Sa		1 905200 7
Due: Fax:		10 PM -3787

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Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Microbiology Chai

Sample #	Sample Location/Description	Sample Type	Potable/ NonPotable	Test Code	Volume/ Area	Date/Time Collected	Temperature ('C) (Lab Use Only)
28394302	Field Blank	Air		M001	N/A	11	J
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Comments/	Special Instructions:						

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