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

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

December 30, 2020

Prince George's County Public Schools Environmental Safety Office 13306 Old Marlboro Pike Upper Marlboro, MD 20772

Attention: Alex Baylor

alex.baylor@pgcps.org

Subject: Indoor Air Quality Survey

Bond Mill Elementary School 16001 Sherwood Avenue

Laurel, MD 20707

Mr. Baylor:

On December 8, 2020, a Soil and Land Use Technology, Inc. (SaLUT) Industrial Hygienist conducted an indoor air quality (IAQ) evaluation at Bond Mill Elementary School, a property maintained by Prince George's County Public Schools (PGCPS) located at 16001 Sherwood Avenue, Laurel, MD 20707. The inspection was performed in accordance with PGCPS contract number IFB 022-19.

<u>Methodology</u>

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.

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 Bond Mill Elementary School, visited on December 8, 2020.

Table 1-Observations

Location	Summary of Observations 12-8-2020
Hallway in front of	2'x4' ceiling tiles and 1'x1' tile floor;
Main Entrance	No visual signs of microbial growth;
	Mild odor;
	Stained ceiling tiles;
	No visible dust on floor/other furniture surfaces;
	No visible dust around ventilator;
	Central AC.
Hallway in front of	2'x4' ceiling tiles and 1'x1' tile floor;
Classroom 6	No visual signs of microbial growth, and no odor;
	No visible dust on floor/other furniture surfaces;
	No visible dust around ventilator;
	Central AC.
Hallway in front of	2'x4' ceiling tiles and 1'x1' tile floor;
Classroom 13	No visual signs of microbial growth, and no odor;
	No visible dust on floor/other furniture surfaces;
	No visible dust around ventilator;
	Central AC.
Hallway in between	2'x4' ceiling tiles and 1'x1' tile floor;
Classrooms 17 & 18	No visual signs of microbial growth, and no odor;
	No visible dust on floor/other furniture surfaces;
	No visible dust around ventilator;
TT 11	Central AC.
Hallway in front of	2'x4' ceiling tiles and 1'x1' tile floor;
Classroom 22	No visual signs of microbial growth, and no odor;
	No visible dust on floor/other furniture surfaces;
	No visible dust around ventilator;
0 + :1 E + : E77	Central AC.
Outside Exterior EV	Windy
Sample	

Measurements of Indoor Environmental Quality Parameters

Table 2 depicts a summary of average measurements of comfort.

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 below the ASHRAE recommended ranges in the representative spaces.



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 CO₂ upper limit is the prevailing outdoor CO₂ concentration plus 700 parts per million (ppm). On the day of the space evaluation, the outdoor (building exterior) CO₂ concentration was approximately 425 ppm therefore indoor concentrations should not exceed approximately 1,125 ppm (700 +425). The maximum average interior CO₂ concentration detected was 634 ppm in the Hallway in front of Classroom 13, 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.

Table 2: Bond Mill Elementary School, Instrumental Screening Levels December 8, 2020 (9:30 AM-11:30 AM)

	Temp		CO	CO ₂
Sample Location	0 F	RH%	ppm	ppm
	ASHRAE	ASHRAE	NAAQS	ASHRAE
Standards	68 to 75°F*	<65%	9	1,125
Hallway in front of Main Entrance	62.6	26.9	0	621
Hallway in front of Classroom 6	63.5	27.3	0	527
Hallway in front of Classroom 13	65.3	24.5	0	634
Hallway in between Classroom 17 & 18	67.2	24.8	0	515
Hallway in front of Classroom 22	63.5	24.4	0	501
Outside Exterior EV Sample	41.0	44.8	0	425

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

* - Winter 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 December 8, 2020, total mold counts in representative samples (spore count/m³ of air) in all the areas inspected were lower than the outdoor concentrations with the exception of Hallway between Classroom 17 & 18. Laboratory analysis follows this report (see attachment).

Table 3: Bond Mill Elementary School - Measurements of Mold-in-Air Samples December 8, 2020 (9:30 AM-11:30 AM)

Spore Types	Hallway in front of Main Entrance	Hallway in front of Classroom 6	Hallway in front of Classroom 13	Hallway between Classroom 17 & 18
Alternaria (Ulocladium)	-	-	-	-
Ascospores	-	-	-	-
Aspergillus/Penicillium	200	-	700	4,000
Basidiospores	80	80	40	200
Bipolaris++	-	-	-	-
Chaetomium	-	-	-	-
Cladosporium	40	-	40	300
Curvularia	-	-	-	-
Ерісоссит	-	-	-	-
Fusarium	-	-	-	-
Ganoderma	-	-	-	-
Myxomycetes++	40	-	40	40
Pithomyces++	-	-	-	-
Rust	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-
Stachybotrys/Memnoniella	100	-	-	-
Unidentifiable Spores	-	-	-	-
Zygomycetes	-	-	-	-
Nigrospora	-	10	-	-
Hyphal Fragment	80	-	-	80
Insect Fragment	80	80	-	-
Pollen	-	-	-	-
Total Fungi	460	90	820	4,540

^{*} Spore Counts per cubic meter of air (Counts/m³).

⁺⁺Includes other spores with similar morphology.



Table 3: Bond Mill Elementary School – Measurements of Mold-in-Air Samples continued December 8, 2020 (9:30 AM-11:30 AM)

Spore Types	Spore Types Hallway in front of Classroom 22		Field Blank
Alternaria (Ulocladium)	-	-	-
Ascospores	-	40	-
Aspergillus/Penicillium	3,200	2,200	-
Basidiospores	300	940	-
Bipolaris++	-	-	-
Chaetomium	-	-	-
Cladosporium	-	300	-
Curvularia	-	-	-
Ерісоссит	-	80	-
Fusarium	-	-	-
Ganoderma	-	-	-
Myxomycetes++	10	40	-
Pithomyces++	1	100	-
Rust	1	40	-
Scopulariopsis/Microascus	-	-	-
Stachybotrys/Memnoniella	-	-	-
Unidentifiable Spores	-	-	-
Zygomycetes	-	-	-
Nigrospora	-	-	-
Hyphal Fragment	-	200	-
Insect Fragment	40	-	-
Pollen	40	10	
Total Fungi	3,510	3,740	No Trace

^{*}Spore Counts per cubic meter of air (Counts/m³).

⁺⁺Includes other spores with similar morphology.



Findings and Conclusions

The comfort parameters (i.e., temperature, RH, CO₂, and CO levels) in the representative areas conform to ASHRAE and/or NAAQS guidelines with the exception of the temperature readings. On December 8, 2020, total mold counts in representative area samples (spore count/m³ of air) in all the areas inspected were lower than the outdoor concentrations with the exception of Hallway between Classroom 17 & 18.

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,

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



Attention: Indika Jayatilake

SaLUT

EMSL Order: 192012076 Customer ID: SALU50

Customer PO: Project ID:

Phone: (301) 595-3783

Fax: (301) 595-3787 Collected Date: 12/08/2020

Suite 231 Received Date: 12/08/2020 02:55 PM

Analyzed Date: 12/10/2020

Project: 19-035 - Bond Mills ES

1818 New York Avenue, NE

Washington, DC 20002

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):	192012076-0001 192012076-0002 192012076-000 S1 S2 S3 75 75 75					\$2				
Sample Location:	HW in fi	ont of main ent	rance	HW	in front of CR 1	13	HW in front of CR 6			
Spore Types	Raw Count	Count/M³	% of Total	Raw Count	Count/M³	% of Total	Raw Count	Count/M³	% of Total	
Alternaria (Ulocladium)	-	-	-	-	-	-	- '	-	-	
Ascospores	-	-	-	-	-	-	-	-	-	
Aspergillus/Penicillium	5	200	43.5	17	700	85.4	-	-	-	
Basidiospores	2	80	17.4	1	40	4.9	2	80	88.9	
Bipolaris++	-	-	-	-	-	-	-	-	-	
Chaetomium	-	-	-	-	-	-	-	-	-	
Cladosporium	1	40	8.7	1	40	4.9	-	-	-	
Curvularia	-	-	-	-	-	-	-	-	-	
Epicoccum	-	-	-	-	-	-	-	-	-	
Fusarium	-	-	-	-	-	-	-	-	-	
Ganoderma	-	-	-	-	-	-	-	-	-	
Myxomycetes++	1	40	8.7	1	40	4.9	-	-	-	
Pithomyces++	-	-	-	-	-	-	-	-	-	
Rust	-	-	-	-	-	-	-	-	-	
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-	
Stachybotrys/Memnoniella	3	100	21.7	-	-	-	-	-	-	
Unidentifiable Spores	-	-	-	-	-	-	-	-	-	
Zygomycetes	-	-	-	-	-	-	-	-	-	
Nigrospora	-	-	-	-	-	-	1*	10*	11.1	
Total Fungi	12	460	100	20	820	100	3	90	100	
Hyphal Fragment	2	80	-	-	-	-	-	-	-	
Insect Fragment	2	80	-	-	-	-	2	80	-	
Pollen	-	-	-	-	-	-	-	-	-	
Analyt. Sensitivity 600x	-	41	-	-	41	-	-	41	-	
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-	
Skin Fragments (1-4)	-	2	-	-	1	-	-	1	-	
Fibrous Particulate (1-4)	-	2	-	-	1	-	-	1	-	
Background (1-5)	-	2	-	-	1	-	-	1	-	

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



Abubakar Barry, Microbiology Laboratory Manager or other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. 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. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. High levels of background particulates 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.

Samples analyzed by EMSL Analytical, Inc. Beltsville, MD AIHA-LAP, LLC-EMLAP Accredited #102891

Initial report from: 12/11/2020 10:11 AM



EMSL Order: 192012076 Customer ID: SALU50

Customer PO: Project ID:

 Attention:
 Indika Jayatilake
 Phone: (301) 595-3783

 SaLUT
 Fax: (301) 595-3787

1818 New York Avenue, NE Collected Date: 12/08/2020

Suite 231 Received Date: 12/08/2020 02:55 PM

Washington, DC 20002 Analyzed Date: 12/10/2020 Project: 19-035 - Bond Mills ES

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):	192012076-0004 192012076-0005 192012076-0006 S4 S5 S6 75 75 75					S5				
Sample Location:	HW	in front of CR	22	HW be	tween CR18 an	id 17	Outside			
Spore Types	Raw Count	Count/M³	% of Total	Raw Count	Count/M³	% of Total	Raw Count	Count/M³	% of Total	
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-	
Ascospores	-	-	-	-	-	-	1	40	1.1	
Aspergillus/Penicillium	78	3200	91.2	98	4000	88.1	53	2200	58.8	
Basidiospores	7	300	8.5	4	200	4.4	23	940	25.1	
Bipolaris++	-	-	-	-	-	-	-	-	-	
Chaetomium	-	-	-	-	-	-	-	-	-	
Cladosporium	-	-	-	7	300	6.6	7	300	8	
Curvularia	-	-	-	-	-	-	-	-	-	
Epicoccum	-	-	-	-	-	-	2	80	2.1	
Fusarium	-	-	-	-	-	-	-	-	-	
Ganoderma	-	-	-	-	-	-	-	-	-	
Myxomycetes++	1*	10*	0.3	1	40	0.9	1	40	1.1	
Pithomyces++	-	-	-	-	-	-	3	100	2.7	
Rust	-	-	-	-	-	-	1	40	1.1	
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-	
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-	
Unidentifiable Spores	-	-	-	-	-	-	-	-	-	
Zygomycetes	-	-	-	-	-	-	-	-	-	
Nigrospora	-	-	-	-	-	-	-	-	-	
Total Fungi	86	3510	100	110	4540	100	91	3740	100	
Hyphal Fragment	-	-	-	2	80	-	5	200	-	
Insect Fragment	1	40	-	-	-	-	-	-	-	
Pollen	1	40	-	-	-	-	1*	10*	-	
Analyt. Sensitivity 600x	-	41	-	-	41	-	-	41	-	
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-	
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-	
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-	
Background (1-5)	-	1	-	-	2	-	-	1	-	

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



Abubakar Barry, Microbiology Laboratory Manager or other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. 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. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. High levels of background particulates 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.

Samples analyzed by EMSL Analytical, Inc. Beltsville, MD AIHA-LAP, LLC-EMLAP Accredited #102891

Initial report from: 12/11/2020 10:11 AM



Attention: Indika Jayatilake

SaLUT

EMSL Order: 192012076 Customer ID: SALU50

Customer PO: Project ID:

Phone: (301) 595-3783

Fax: (301) 595-3787

Collected Date: 12/08/2020

Received Date: 12/08/2020 02:55 PM

Analyzed Date: 12/10/2020

1818 New York Avenue, NE Suite 231

Washington, DC 20002

Project: 19-035 - Bond Mills ES

Test Report:Air-O-Cell(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

Test Report:Air-C Lab Sample Number: Client Sample ID: Volume (L): Sample Location:		92012076-0007 S7 Field Blank					·		
Spore Types	Raw Count	Count/M³	% of Total	-	_	-	-	-	-
Alternaria (Ulocladium)	-	<u> </u>	-	-	_	-	-		_
Ascospores	-	-	-	-		-			
Aspergillus/Penicillium	-	-	-	-		-			
Basidiospores	-	-	-	-		-			
Bipolaris++	-	-	-			-			
Chaetomium	-	-	-	-		-			
Cladosporium	-	-	-	-					
Curvularia	-	-	-	-		-			
Epicoccum	-	-	-	-		-			
Fusarium	-	-	-	-		-			
Ganoderma	-	-	-	-		-			
Myxomycetes++	-	-	-	-		-			
Pithomyces++	-	-	-	-		-			
Rust	-	-	-	-		-			
Scopulariopsis/Microascus	-	-	-	-		-			
Stachybotrys/Memnoniella	-	-	-	-		-			
Unidentifiable Spores	-	-	-	-		-			
Zygomycetes	-	-	-	-		-			
Nigrospora	-	-	-	-		-			
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.



Abubakar Barry, Microbiology Laboratory Manager or other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. 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. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. High levels of background particulates 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.

Samples analyzed by EMSL Analytical, Inc. Beltsville, MD AIHA-LAP, LLC-EMLAP Accredited #102891

Initial report from: 12/11/2020 10:11 AM

OrderID: 192012076



Microbiology Chain of Custody EMSL Order Number (Lab Use Only):

1920	INAC	~ / / _	19 TA	٠.
P # (A . *) / \	1 ///) '	110	. Apr. 45.	- ; - ;
1 . 1 91.7.67	モノモス	TUZ		
			****	0.00

EMSL ANALYTICAL, INC. 200 ROUTE 130 NORTH CINNAMINSON, NJ 08077 PHONE: (800) 220-3675 FAX:(856) 786-0262

A CONTRACT OF THE CONTRACT OF									
Company Name:	EN ب	ISL-Bill to I to is Differen	o: Same nt note instructi	Different If ons in Comments		j			
Street: 1818 New	Third Party Billing requires written authorization from third party.								
City: Washington	Zip/Postal Code:		_	Country:					
Report To (Name)	: Indika	Jaya+; lak	:-e	Telephone #:		•			
Email Address:	الما زاه الما	ce p salutinc	- (017)	Fax #:			Purchase Or	der:	
		5 - Bond Mill		Please Provide R	lesults: [Fax [Email		
U.S. State Samples Taken: MD Project Zip Code: 20707 Connecticut Samples: ☐ Commercial ☐ Residential									ential
Sterile, Sodium Thiosulfate Preserved Bottle Used: 🔲 Biocide Used in Source (specify): 🔲									
Public	Water Supply S	Samples: 🔲 Note: /		<u> </u>		to DOH if I	required by st	ate	
□ 2 Hour	Печен			Options - Please (6 Hour	☐ 1 Week		/eek
3 Hour	6 Hour	24 Hour	48 Hour	v Test Codes	a	b Hour	☐ 1 Week	<u> </u>	eek
Mana Air O Call	100074.04	-140		monas aeruginosa (P//	\ ***\	M115 Sour	age Screen - Wa	ter (P/A***)	
M001 Air-O-Cell M030 Micro 5	M174 M	oldSnap llergenco-D		nonas aeruginosa (Fir nonas aeruginosa (MF		M116 Sewa	age Screen - Wa	ter (MPN**)) [
		liergenco-D		ophic Plate Count	. F3/A+++\		age Screen - Sw		- 1
M041 Fungal Direct E M169 Pollen ID & Ent			M017 Total Co	liform & <i>E. coli</i> (Coliler liform & <i>E. coli</i> (MFT*)	rt P/A***)		age Screen - Sw icillin-resistant S		ıs İ
M280 Dust Character			M114 Total Co	liform & E. coli Enume		(MRSA)		•	· \
M281 Dust Character			(Colilert MPN* M019 Fecal Co				d-growing non-Ti LEnumeration	B Mycobac	teria
M005 Viable Fungi- A				reptococcus (MFT*)			toxin Analysis		1
M006 Viable Fungi- A Aspergillus, Cladospo	ur Samples (inclu prium. Stachvbotr	vs Species ID &	M029 Enteroca	occi (MFT*)			p Allergen (Cat,	Dog, Cocki	roach,
Count)				o <i>cci</i> (Enterolert P/A***) ne qPCR-ERMI 36 Par		Dust Mite) Other See	Analytical Price	Guide	
M007 Culturable fung Count)	i - Surface Samp	les (Genus ID &		Screen -Water (MFT		Legionella	Analysis Pleas		iL.
M008 Culturable fung	i - Surface Samp	les (Includes				Legionella	COC		Į.
Penicillium, Aspergillu	ıs, Cladosporium	, Stachybotrys							
Species ID & Count) M009 Bacteria Cultur	e Gram Stain & C	Count		ane Filtration Techniqu	ue				- 1
M010 Bacteria Count	& ID - 3 Most Pro	ominent	-**MPN= Most -`***P/A= Prese	Probable Number					
M011 Bacteria Count				T			_1		
Name of Sampler:	She	rial Dies		Signature of San	pler:	- WV			
Sample #	Sample Loc	ation/Description	Sample Type	Potable/ NonPotable (Only for Waters)	Test Code	Volume/ Area	Date/Time Collected	Temper (*C) (Lab Use)
Example A1	Kitchen Sink/	Ton	Water	⊠P □NP	M017	100 mL	9/1/13 4:00 PM	(Lus opp	<u>,</u>
\$1	HU infron	1 (1	A	□ P □NP	Hoor		12 04 28		7 - 7
52	HU intron		27	□ P □NP	•9	71	77	To a V	1,3.
	Hw intro		'n	□ P □NP	77	27	24		
53 54	Hw inte	of of (R27	7,7	□ P □NP	79	21	17	id nair	
5'5		, CR18 and 17	17	☐ P □NP	_ 21	4	2		
Client Sample # (s	s): -		Total # of	Samples: 07		s Receive		Yes / No	
Relinquished (Client):				Date:		Time:			
Received (Lab):				Date:		Time:			
Comments/Specia	al Instructions:	•							
								2020	E S
				•				<u></u>	B S
							_		<u> </u>
			Page <u>1</u>					1	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
EMSL Analytical, I	nc.'s Laboratory	Terms and Conditions	are incorporated	into this chain of custo	ody by refer	ence in their	entirety. Submi	ssiOPof sai	
to Charle Amobalia	i inc constitutes	acceptance and ackno	owledament of al	I terms and conditions	by Custom	er.		j	70/5

Controlled Document - COC-34 Micro R8 11/14/2017



Microbiology Chain of Custody EMSL Order Number (Lab Use Only):

	20 57 / C
ず コロフ () Istタ	-(1)(0)
<u> </u>	7 <u></u>

EMSL ANALYTICAL, INC. 200 ROUTE 130 NORTH CINNAMINSON, NJ 08077 PHONE: (800) 220-3675 FAX:(856) 786-0262

Additional pages of the chain of custody are only necessary if needed for additional sample information.

Sample #	Sample Location/Description	Sample Type	Potable/ NonPotable (Only for Waters)	Test Code	Volume/ Area	Date/Time Collected	Temperature ('C) (Lab Use Only)
56	Outside field blank	Air	□P □NP	4001	75ml	12/08/20	
87	field blank	12	□P □NP	to	29	y	
			□ P □NP				
			☐ P ☐NP				
			 □ P □NP				
		<u> </u>	□ P □NP			·	
			□ P □NP				
			□P □NP.			•	
			P NP				
			☐ P ☐NP	<u> </u>			
·			□ P □NP	<u> </u>			and the second second
	· <u>·</u>		☐ P ☐NP				
	·		□ P_ □NP	ļ			
			□ P □NP	ļ			
			☐ P ☐NP	ļi	<u> </u>		1
	· · · · · · · · · · · · · · · · · · ·		☐ P ☐NP	<u> </u>	· 		
			□ P □NP	ļ			
			☐ P _ NP	ļ			
			☐ P ☐NP	ļ —		· · · · · · · · · · · · · · · · · · ·	
		ļ	☐ P ☐NP	<u> </u>		<u></u>	
· · ·			□ P □NP			<u> </u>	1861 S
			□P □NP	<u> </u>			
Comments/Special	Instructions	<u></u>	□ P □NP	<u></u>	_		Angelia de la companya de la company
- Comments/Special							
					_		<u> </u>

Page _____ of ____ EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this chain of custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

Controlled Document - COC-34 Micro R8 11/14/2017