Soil and Land Use Technology, Inc.
1818 New York Ave. NE, Ste 231, Washington, DC 20002
Telephone: (301) 595-3783
www.salutinc.com

June 18, 2019

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

Attention: Alex Baylor
alex.baylor@pgcps.org

Subject: Indoor Air Quality Survey
Rosa L. Parks Elementary School
6111 Ager Road
Hyattsville, MD 20782

Mr. Baylor:

On May 22, 2019, a Soil and Land Use Technology, Inc. (SaLUT) Industrial Hygienist conducted an indoor air quality (IAQ) evaluation at Rosa L. Parks Elementary School, a property maintained by Prince George's County Public Schools (PGCPS) located at 6111 Ager Road, Hyattsville, MD 20782. The inspection was performed in accordance with PGCPS 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 3000-photoionization detector (PID) was used to measure total volatile organic compounds (TVOC).

Respirable particulate in air (size classes PM2.5µ and PM10µ) 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 Rosa L. Parks Elementary School, visited on May 22, 2019.

Table 1-Observations

Location	Summary of Observations 5-22-2019
Office Room	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.
Multipurpose Room	2'x4' ceiling tiles and 1'x1' tile floor; Dusty air vents, and mild odor; No visible dust on floor/other furniture surfaces.
Computer Lab	2'x4' ceiling tiles and 1'x1' tile floor; Dusty air vents, and mild odor; No visible dust on floor/other furniture surfaces.
Media Center	2'x4' ceiling tiles and 1'x1' tile floor; Dusty air vents, and mild odor; No visible dust on floor/other furniture surfaces.
Classroom 205	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.
Classroom 219	2'x4' ceiling tiles and 1'x1' tile floor; One stained ceiling tile; No visual signs of microbial growth, and no odor.
Classrooms throughout the Building	No visual signs of microbial growth, and no odor; No visible dust on floor/other furniture surfaces.

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.

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 (CO_2)

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 591 ppm therefore indoor concentrations should not exceed approximately 1,291 ppm (700 + 591). The maximum average interior CO_2 concentration detected was 1,109 ppm in Classroom 219, 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 22, 2019, the highest average PM2.5 concentration during the monitoring period was 0.003 mg/m^3 (3 $\mu g/m^3$) in the Multipurpose Room. This is compared to the NAAQS primary standard for PM2.5 of 12 $\mu g/m^3$ annual mean. The highest average PM10 concentration during the same period was 0.034 mg/m^3 (34 $\mu g/m^3$) in the Multipurpose Room. This is compared to NAAQS standard for PM10 of 150 $\mu g/m^3$ 24 hour average.

Total Volatile Organic Chemicals (TVOC)

LEED's standard of 500 $\mu g/m^3$ 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 $\mu g/m^3$ 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: Rosa L. Parks Elementary School Instrumental Screening Levels
May 22, 2019

Sample Location	Temp °F	RH%	CO ppm	CO_2 ppm	PM 2.5 mg/m³	PM 10 mg/m³	TVOC ppm
Standards	**ASHRAE 73 to 79°F***	**ASHRAE <65%**	**NAAQS 9**	**ASHRAE 1,291**	**NAAQS 0.012**	**NAAQS 0.150**	**1.0**
Main Office	77.9	43.6	0	825	0.002	0.021	0
Multi-Purpose Room	75.2	40.6	0	679	0.003	0.034	0.1
Computer Lab	76.1	41.6	0	495	0.001	0.024	0.1
Media Center	74.3	42.6	0	764	0.002	0.031	0
Classroom 205	74.3	50.4	0	1090	0.001	0.021	0
Classroom 219	74.3	57.4	0	1109	0.002	0.028	0
Exterior of the Building Next to the entrance	66.9	53.9	0	591	0.003	0.031	0.1

PM – Particulate Matter size
°F – Degrees Fahrenheit
CO – Carbon Monoxide
ppm – parts per million
µg/m³ – micrograms per cubic meter
RH% - % Relative Humidity
CO_2 – 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 22, 2019, total mold counts in representative samples (spore count/m³ of air) in all the areas inspected were lower than the outdoor concentrations. Laboratory analysis follows this report (see attachment).

Table 3: Rosa L. Parks Elementary School - Measurements of Mold-in-Air Samples May 22, 2019

Spore Types	Office Room	Multi-Purpose Room	Computer Lab	Media Center
Alternaria (Ulocladium)	-	40	-	40
Ascospores	-	480	920	570
Aspergillus/Penicillium	200	100	100	90
Basidiospores	300	960	2600	1,500
Bipolaris++	-	-	-	-
Chaetomium	-	-	-	-
Cladosporium	200	200	400	610
Curvularia	40	-	-	30*
Epicoccum	-	-	-	-
Fusarium	-	-	-	-
Ganoderma	-	40	-	-
Myxomycetes++	-	-	10*	-
Pithomyces++	-	-	-	-
Rust	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-
Unidentifiable Spores	-	-	-	-
Aureobasidium	-	-	-	-
Bispora	-	-	-	-
Oidium	-	-	-	-
Pestalotia/Pestalotiopsis	-	-	40	-
Phaeotrichoconis	-	-	-	10*
Torula-like	-	-	-	-
Hyphal Fragment	40	-	100	40
Insect Fragment	-	-	-	40
Pollen	40	-	-	10*
Total Fungi	**740**	**1,820**	**4070**	**2,850**

***Spore Counts per cubic meter of air (Counts/m^3).**
++Includes other spores with similar morphology.

Table 3: Rosa L. Parks Elementary School - Measurements of Mold-in-Air Samples continued

May 22, 2019

Spore Types	Exterior of School	Classroom 205	Classroom 219	Field Blank
Alternaria (Ulocladium)	90	-	40	-
Ascospores	1,100	40	-	-
Aspergillus/Penicillium	300	200	100	-
Basidiospores	1,900	300	40	-
Bipolaris++	-	-	-	-
Chaetomium	-	-	40	-
Cladosporium	1,600	300	400	-
Curvularia	-	-	90	-
Epicoccum	100	-	40	-
Fusarium	-	-	-	-
Ganoderma	-	-	-	-
Myxomycetes++	100	-	10*	-
Pithomyces++	-	-	-	-
Rust	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-
Unidentifiable Spores	40	40	-	-
Aureobasidium	-	-	10*	-
Bispora	-	40	300	-
Oidium	40	-	-	-
Pestalotia/Pestalotiopsis	-	-	-	-
Phaeotrichoconis	-	-	-	-
Torula-like	1,000	-	-	-
Hyphal Fragment	200	-	90	-
Insect Fragment	90	-	-	-
Pollen	830	40	90	-
Total Fungi	**6,270**	**920**	**1,070**	**No Trace**

***Spore Counts per cubic meter of air (Counts/m^3).**
++Includes other spores with similar morphology.

Findings and Conclusions

The comfort parameters (i.e., temperature, RH, CO_2, and CO levels) and respirable particulates in representative areas conform to ASHRAE and/or NAAQS guidelines. On May 22, 2019, total mold counts in representative area samples (spore count/m^3 of air) in all the areas inspected were lower than the outdoor concentrations, indicating no amplified mold growth.

Recommendations

Based on the observations, mold spore results, and the results of the indoor air quality parameters tested at Rosa L. Parks Elementary School, SaLUT recommends the following measures to address the indoor air quality concerns documented:

1. Thoroughly clean air vents in the Multipurpose Room, Computer Lab, and Media Center.

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

EMSL Analytical, Inc.

528 Mineola Avenue Carle Place, NY 11514

Tel/Fax: (516) 997-7251 / (516) 997-7528

http://www.EMSL.com / carleplacelab@emsl.com

EMSL Order: 061909886
Customer ID: SALU50
Customer PO:
Project ID:

Attn: Indika Jayatilake
SaLUT
1818 New York Avenue, NE
Suite 218A
Washington, DC 20002

Phone: (301) 595-3783
Fax: (301) 595-3787
Collected: 05/21/2019
Received: 05/22/2019
Analyzed: 05/24/2019

Project: PGCPS IAQ/19-035 Rosa Parks ES, 6111 Ager Road, Hyattsville, MD 20782

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

Lab Sample Number:	061909886-0001			061909886-0002			061909886-0003		
Client Sample ID:	2839-4289			2839-4289			2839-4320		
Volume (L):	75			75			75		
Sample Location	Office Room			Multi Purpose Room			Media Centre		
Spore Types	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**
Alternaria (Ulocladium)	-	-	-	1	40	2.2	1	40	1.4
Ascospores	-	-	-	11	480	26.4	13	570	20
Aspergillus/Penicillium	5	200	27	3	100	5.5	2	90	3.2
Basidiospores	6	300	40.5	22	960	52.7	35	1500	52.6
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	5	200	27	5	200	11	14	610	21.4
Curvularia	1	40	5.4	-	-	-	2*	30*	1.1
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	1	40	2.2	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Aureobasidium	-	-	-	-	-	-	-	-	-
Bispora	-	-	-	-	-	-	-	-	-
Oidium	-	-	-	-	-	-	-	-	-
Pestalotia/Pestalotiopsis	-	-	-	-	-	-	-	-	-
Phaeotrichoconis	-	-	-	-	-	-	1*	10*	0.4
Torula-like	-	-	-	-	-	-	-	-	-
Total Fungi	**17**	**740**	**100**	**43**	**1820**	**100**	**68**	**2850**	**100**
Hyphal Fragment	1	40	-	-	-	-	1	40	-
Insect Fragment	-	-	-	-	-	-	1	40	-
Pollen	1	40	-	-	-	-	1*	10*	-
Analyt. Sensitivity 600x	-	44	-	-	44	-	-	44	-
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	-	-	2	-

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

Jeffrey Lau, Microbiology Laboratory Manager
or other approved signatory

Initial report from: 05/26/2019 15:30:48

For information on the fungi listed in this report, please visit the Resources section at www.emsl.com

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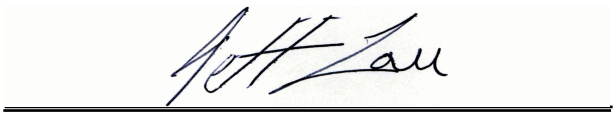
Phone: (301) 595-3783
Fax: (301) 595-3787
Collected: 05/21/2019
Received: 05/22/2019
Analyzed: 05/24/2019

Project: PGCPS IAQ/19-035 Rosa Parks ES, 6111 Ager Road, Hyattsville, MD 20782

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

Lab Sample Number:	061909886-0004			061909886-0005			061909886-0006		
Client Sample ID:	2839-4328			2839-4301			2839-4334		
Volume (L):	75			75			75		
Sample Location	Computer Lab			Room 205			Room 219		
Spore Types	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**
Alternaria (Ulocladium)	-	-	-	-	-	-	1	40	3.7
Ascospores	21	920	22.6	1	40	4.3	-	-	-
Aspergillus/Penicillium	3	100	2.5	4	200	21.7	3	100	9.3
Basidiospores	60	2600	63.9	7	300	32.6	1	40	3.7
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	1	40	3.7
Cladosporium	9	400	9.8	6	300	32.6	9	400	37.4
Curvularia	-	-	-	-	-	-	2	90	8.4
Epicoccum	-	-	-	-	-	-	1	40	3.7
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	1*	10*	0.2	-	-	-	1*	10*	0.9
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	1	40	4.3	-	-	-
Aureobasidium	-	-	-	-	-	-	1*	10*	0.9
Bispora	-	-	-	1	40	4.3	7	300	28
Oidium	-	-	-	-	-	-	-	-	-
Pestalotia/Pestalotiopsis	1	40	1	-	-	-	-	-	-
Phaeotrichoconis	-	-	-	-	-	-	-	-	-
Torula-like	-	-	-	-	-	-	-	-	-
Total Fungi	**95**	**4070**	**100**	**20**	**920**	**100**	**27**	**1070**	**100**
Hyphal Fragment	3	100	-	-	-	-	2	90	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	1	40	-	2	90	-
Analyt. Sensitivity 600x	-	44	-	-	44	-	-	44	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	1	-	-	2	-	-	2	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	2	-
Background (1-5)	-	1	-	-	1	-	-	3	-

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



Jeffrey Lau, Microbiology Laboratory Manager
or other approved signatory

Initial report from: 05/26/2019 15:30:48

For information on the fungi listed in this report, please visit the Resources section at www.emsl.com

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Phone: (301) 595-3783
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Collected: 05/21/2019
Received: 05/22/2019
Analyzed: 05/24/2019

Project: PGCPS IAQ/19-035 Rosa Parks ES, 6111 Ager Road, Hyattsville, MD 20782

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

Lab Sample Number:	061909886-0007			061909886-0008		
Client Sample ID:	2839-4333			2839-4319		
Volume (L):	75					
Sample Location	Outside Exterior EV Sample EV Sample			Field Blank		
Spore Types	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**
Alternaria (Ulocladium)	2	90	1.4	-	-	-
Ascospores	25	1100	17.5	-	-	-
Aspergillus/Penicillium	6	300	4.8	-	-	-
Basidiospores	44	1900	30.3	-	-	-
Bipolaris++	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-
Cladosporium	37	1600	25.5	-	-	-
Curvularia	-	-	-	-	-	-
Epicoccum	3	100	1.6	-	-	-
Fusarium	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-
Myxomycetes++	3	100	1.6	-	-	-
Pithomyces++	-	-	-	-	-	-
Rust	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-
Unidentifiable Spores	1	40	0.6	-	-	-
Aureobasidium	-	-	-	-	-	-
Bispora	-	-	-	-	-	-
Oidium	1	40	0.6	-	-	-
Pestalotia/Pestalotiopsis	-	-	-	-	-	-
Phaeotrichoconis	-	-	-	-	-	-
Torula-like	23	1000	15.9	-	-	-
Total Fungi	**145**	**6270**	**100**	**-**	**No Trace**	**-**
Hyphal Fragment	5	200	-	-	-	-
Insect Fragment	2	90	-	-	-	-
Pollen	19	830	-	-	-	-
Analyt. Sensitivity 600x	-	44	-	-	0	-
Analyt. Sensitivity 300x	-	13*	-	-	0*	-
Skin Fragments (1-4)	-	1	-	-	-	-
Fibrous Particulate (1-4)	-	1	-	-	-	-
Background (1-5)	-	2	-	-	-	-

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

Jeffrey Lau, Microbiology 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 otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Carle Place, NY AIHA-LAP, LLC--EMLAP Accredited #102344

Initial report from: 05/26/2019 15:30:48

For information on the fungi listed in this report, please visit the Resources section at www.emsl.com

OrderID: 061909886

EMSL ANALYTICAL, INC.
LABORATORY•PRODUCTS•TRAINING

Microbiology Chain of Custody

EMSL Order Number *(Lab Use Only)*: 061909886

PHONE:
FAX:

Company Name: SaLUT Inc.	**EMSL-Bill to:** ■ Same ☐ Different If Bill to is Different note instructions in Comments**
Street: 1818 New York Ave NE Suite 231	*Third Party Billing requires written authorization from third party*
City: Washington **State/Province:** DC	**Zip/Postal Code:** 20002 **Country:** USA
Report To (Name): Indika Jayatillake	**Telephone #:** 301-595-3783
Email Address: ijayatillake@salutinc.com	**Fax #:** **Purchase Order:**
Project Number/Location: PGCPS IAQ/19-035 Rosa Parks ES	**Please Provide Results:** ☐ Fax ■ Email

Location Address: 6111 Ager Road, Hyattsville, MD 20782 **Connecticut Samples:** ☐ Commercial ☐ Residential

**Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide. TATs are subject to methodology requirements*

Sterile, Sodium Thiosulfate Preserved Bottle Used: ☐ **Biocide Used in Source (specify):** ____________ ☐

Public Water Supply Samples: ☐ **Note: All results may automatically be reported to DOH if required by state.**

Turnaround Time (TAT) Options * - Please Check

☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ■ 1 Week ☐ 2 Week

Microbiology Test Codes

M001 Air-O-Cell
M174 MoldSnap
M030 Micro 5
M032 Allergenco-D
M041 Fungal Direct Examination
M169 Pollen ID & Enumeration
M280 Dust Characterization Level-1
M281 Dust Characterization Level-2
M005 Viable Fungi- Air Samples (Genus ID & Count)
M006 Viable Fungi- Air Samples (Includes *Penicillium, Aspergillus, Cladosporium, Stachybotrys* Species ID & Count)
M007 Culturable fungi - Surface Samples (Genus ID & Count)
M008 Culturable fungi - Surface Samples (Includes *Penicillium, Aspergillus, Cladosporium, Stachybotrys* Species ID & Count)
M009 Bacteria Culture Gram Stain & Count
M010 Bacteria Count & ID - 3 Most Prominent
M011 Bacteria Count & ID - 5 Most Prominent
M012 Pseudomonas aeruginosa (P/A***)

M024 Pseudomonas aeruginosa (MFT*)
M015 Heterotrophic Plate Count
M017 Total Coliform & E. coli (Colilert P/A***)
M018 Total Coliform & E. coli (MFT*)
M114 Total Coliform & E. coli Enumeration (Colilert MPN**)
M019 Fecal Coliform (MFT*)
M020 Fecal Streptococcus (MFT*)
M029 Enterococci (MFT*)
M129 Enterococci (Enterolert P/A***)
M180 Real Time qPCR-ERMI 36 Panel
M025 Sewage Screen –Water (MFT*)

M115 Sewage Screen - Water (P/A***)
M116 Sewage Screen - Water (MPN**)
M117 Sewage Screen - Swab (P/A***)
M013 Sewage Screen - Swab (MFT*)
M133 Methicillin-resistant Staph. aureus (MRSA)
M031 Rapid-growing non-TB Mycobacteria Detection & Enumeration
M014 Endotoxin Analysis
M044 Group Allergen (Cat, Dog, Cockroach, Dust Mite)
Other See Analytical Price Guide
Legionella Analysis Please use EMSL - Legionella COC

*MFT= Membrane Filtration Technique
**MPN= Most Probable Number
***P/A= Presence/Absence

Name of Sampler: **Signature of Sampler:**

Sample #	Sample Location/Description	Sample Type	Potable/ NonPotable (only for waters)	Test Code	Volume/ Area	Date/Time Collected	Temperature (°C) (Lab Use Only)
2839 - 4289	Office Room	Air	☐P ☐NP	M001	75L	5/21/2019	
2839 - 4289	Multi Purpose Room	Air	☐P ☐NP	M001	75L	5/21/2019	
2839 - 4320	Media Centre	Air	☐P ☐NP	M001	75L	5/21/2019	
2839 - 4328	Computer Lab	Air	☐P ☐NP	M001	75L	5/21/2019	
2839 - 4301	Room 205	Air	☐P ☐NP	M001	75L	5/21/2019	
2839 - 4334	Room 219	Air	☐P ☐NP	M001	75L	5/21/2019	

Client Sample # (s): **Total # of Samples:** 8 **Samples Received Chilled? Yes / No**

Relinquished (Client): **Date:** 5/22/19 **Time:**
Received (Lab): **Date:** 5/22/19 **Time:**

Comments/Special Instructions:

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5/24/19 5/24/19 @ 9:37 AM RCVD

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Microbiology Chain of Custody

EMSL Order Number *(Lab Use Only)*: 061909886

PHONE:
FAX:

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

Sample #	Sample Location/Description	Sample Type	Potable/ NonPotable	Test Code	Volume/ Area	Date/Time Collected	Temperature (°C) (Lab Use Only)
2839 - 4333	Outside Exterior EV Sample	Air	☐ P ☐ NP	M001	75L	5/21/2019	
2839 - 4319	Field Blank	Air	☐ P ☐ NP	N/A	N/A	5/21/2019	
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