Soil and Land Use Technology, Inc.

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www.salutinc.com

June 25, 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
Eleanor Roosevelt High School
7601 Hanover Parkway
Greenbelt, MD 20770

Mr. Baylor:

On June 2, 2019, a Soil and Land Use Technology, Inc. (SaLUT) Industrial Hygienist conducted an indoor air quality (IAQ) evaluation at Eleanor Roosevelt High School, a property maintained by Prince George's County Public Schools (PGCPS) located at 7601 Hanover Parkway, Greenbelt, MD 20770. 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 the 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 Eleanor Roosevelt High School, visited on June 2, 2019.

Table 1-Observations

Location	Summary of Observations 6-2-2019
Classroom 014	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/Central HVAC system.
Classroom 015	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/Central HVAC system.
Classroom 017	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/Central HVAC system.
Classroom 018	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/Central HVAC system.
Classroom 118	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/Central HVAC system.
Classroom 139	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/Central HVAC system.
Classroom 220	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/Central HVAC system.
Classroom 226	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/Central HVAC system.

Location	Summary of Observations 6-2-2019
Hallway next to Classroom 226	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/Central HVAC system.
Front Entrance	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/Central HVAC system.
Cafeteria	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/Central HVAC system.
Auditorium	2′x4′ 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/Central HVAC system.
Auditorium 2nd level	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/Central HVAC system.
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/Central HVAC system.
Gym	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/Central HVAC system.
Library	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/Central HVAC system.

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 lower than 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 lower than 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 334 ppm therefore indoor concentrations should not exceed approximately 1,034 ppm (700 + 334). The maximum average interior CO_2 concentration detected was 934 ppm in the Auditorium, 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 14, 2019, the highest average PM2.5 concentration during the monitoring period was 0.004 mg/m^3 (4 $\mu g/m^3$) in the Auditorium. 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 0.017 mg/m^3 (17 $\mu g/m^3$) in the Hallway next to Classroom 226. 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 µg/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: Eleanor Roosevelt High School Instrumental Screening Levels
June 2, 2019

Sample Location	Temp °F	RH%	CO ppm	CO_2 ppm	PM 2.5 mg/m^3	PM 10 mg/m^3	TVOC ppm
Standards	**ASHRAE 68 to 75°F***	**ASHRAE <65%**	**NAAQS 9**	**ASHRAE 1,034**	**NAAQS 0.012**	**NAAQS 0.150**	**1.0**
Classroom 014	69.3	54.2	0	736	0.002	0.014	0.1
Classroom 015	67.4	54.4	0	767	0.002	0.012	0
Classroom 017	69.4	55.5	0	847	0.003	0.014	0
Classroom 018	68.5	57.7	0	829	0.003	0.016	0
Classroom 118	67.3	56.1	0	746	0.003	0.015	0.1
Classroom 139	63.2	55.3	0	638	0.001	0.014	0.1
Classroom 220	69.4	57.6	0	846	0.002	0.013	0.1
Classroom 226	68.3	55.1	0	739	0.003	0.016	0
Hallway next to Classroom 226	67.3	57.4	0	745	0.001	0.028	0
Front entrance	68.9	53.1	0	823	0.001	0.012	0.1
Cafeteria	68.7	55.2	0	923	0.002	0.014	0
Auditorium	68.0	56.3	0	934	0.004	0.015	0
Auditorium 2nd level	67.1	53.2	0	748	0.002	0.012	0.1
Main Office	67.1	57.4	0	895	0.001	0.017	0
Library	69.2	54.3	0	748	0.001	0.021	0
Gym	69.3	54.8	0	709	0.003	0.016	0.1
Outside Exterior EV Sample	81.5	35.4	0	334	0.003	0.045	0.1

PM – Particulate Matter size
°F – Degrees Fahrenheit
CO – Carbon Monoxide
ppm – parts per million
µg/m^3 – 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 June 2, 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: Eleanor Roosevelt High School - Measurements of Mold-in-Air Samples June 2, 2019

Spore Types	Classroom 07	Classroom 014	Classroom 015	Classroom 018
Alternaria (Ulocladium)	-	-	-	-
Ascospores	-	-	-	40
Aspergillus/Penicillium	-	40	-	-
Basidiospores	100	200	200	400
Bipolaris++	-	-	-	-
Chaetomium	-	-	-	-
Cladosporium	-	-	440	40
Curvularia	-	-	-	-
Epicoccum	10*	-	-	-
Fusarium	-	-	-	-
Ganoderma	-	-	-	-
Myxomycetes++	-	-	-	-
Pithomyces++	-	-	-	-
Rust	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-
Unidentifiable Spores	-	-	-	-
Zygomycetes	-	-	-	-
Corynespora	-	-	-	-
Pestalotia/Pestalotiopsis	-	-	-	-
Polythrincium	-	-	10*	-
Hyphal Fragment	-	-	-	-
Insect Fragment	-	-	-	-
Pollen	-	-	-	-
Total Fungi	**110**	**240**	**650**	**480**

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

Table 3: Eleanor Roosevelt High School - Measurements of Mold-in-Air Samples Continued

June 2, 2019

Spore Types	Hallway next to Classroom 018	Classroom 118	Classroom 139	Classroom 220
Alternaria (Ulocladium)	-	-	-	-
Ascospores	400	-	-	-
Aspergillus/Penicillium	-	40	-	-
Basidiospores	830	100	200	400
Bipolaris++	-	-	-	-
Chaetomium	-	-	-	-
Cladosporium	100	90	-	40
Curvularia	-	-	-	-
Epicoccum	-	-	-	-
Fusarium	-	-	-	-
Ganoderma	-	-	-	-
Myxomycetes++	-	-	-	-
Pithomyces++	-	-	-	-
Rust	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-
Unidentifiable Spores	-	-	-	-
Zygomycetes	-	-	-	-
Corynespora	-	-	-	-
Pestalotia/Pestalotiopsis	-	-	-	-
Polythrincium	-	-	-	-
Hyphal Fragment	-	-	-	-
Insect Fragment	-	-	-	-
Pollen	-	-	-	-
Total Fungi	**1330**	**230**	**200**	**440**

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

Table 3: Eleanor Roosevelt High School - Measurements of Mold-in-Air Samples Continued

June 2, 2019

Spore Types	Classroom 228	Cafeteria	Library	Boys Locker Room
Alternaria (Ulocladium)	-	-	-	10*
Ascospores	100	-	90	40
Aspergillus/Penicillium	200	40	-	40
Basidiospores	90	570	480	1400
Bipolaris++	-	-	-	-
Chaetomium	-	-	-	-
Cladosporium	40	40	100	100
Curvularia	-	-	-	-
Epicoccum	-	-	-	-
Fusarium	-	-	-	-
Ganoderma	-	-	-	-
Myxomycetes++	-	-	-	-
Pithomyces++	-	-	-	-
Rust	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-
Unidentifiable Spores	-	-	-	-
Zygomycetes	-	-	-	-
Corynespora	-	-	-	-
Pestalotia/Pestalotiopsis	-	-	-	-
Polythrincium	-	-	-	-
Hyphal Fragment	-	-	-	-
Insect Fragment	-	-	-	-
Pollen	-	-	-	-
Total Fungi	**390**	**650**	**670**	**1590**

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

Table 3: Eleanor Roosevelt High School - Measurements of Mold-in-Air Samples Continued

June 2, 2019

Spore Types	Gymnasium	Auditorium 1	Auditorium 2	Front Entrance
Alternaria (Ulocladium)	-	-	-	-
Ascospores	100	300	200	90
Aspergillus/Penicillium	-	100	100	-
Basidiospores	870	1000	480	960
Bipolaris++	-	-	-	-
Chaetomium	-	-	-	100
Cladosporium	-	90	100	-
Curvularia	-	-	-	-
Epicoccum	-	-	-	-
Fusarium	-	-	-	-
Ganoderma	-	-	-	-
Myxomycetes++	-	-	-	-
Pithomyces++	-	-	-	-
Rust	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-
Unidentifiable Spores	-	-	40	-
Zygomycetes	-	-	-	-
Corynespora	-	-	-	-
Pestalotia/Pestalotiopsis	-	-	-	40
Polythrincium	-	-	-	-
Hyphal Fragment	-	-	40	-
Insect Fragment	-	-	-	-
Pollen	-	-	40	40
Total Fungi	**970**	**1490**	**920**	**1190**

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

Table 3: Eleanor Roosevelt High School - Measurements of Mold-in-Air Samples Continued

June 2, 2019

Spore Types	Main Office	Outside Exterior EV Sample	Field Blank
Alternaria (Ulocladium)	-	-	-
Ascospores	40	1800	-
Aspergillus/Penicillium	-	400	-
Basidiospores	830	6070	-
Bipolaris++	-	-	-
Chaetomium	-	-	-
Cladosporium	40	1700	-
Curvularia	-	-	-
Epicoccum	-	-	-
Fusarium	-	-	-
Ganoderma	-	-	-
Myxomycetes++	-	40	-
Pithomyces++	-	-	-
Rust	-	-	-
Scopulariopsis/Microascus	-	-	-
Stachybotrys/Memnoniella	-	-	-
Unidentifiable Spores	-	-	-
Zygomycetes	-	-	-
Corynespora	-	40	-
Pestalotia/Pestalotiopsis	-	-	-
Polythrincium	-	40	-
Hyphal Fragment	40	90	-
Insect Fragment	-	-	-
Pollen	-	-	-
Total Fungi	**910**	**10090**	**Not Detected**

***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 the representative areas conform to ASHRAE and/or NAAQS guidelines. On June 2, 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, we have no recommendations at this time.

Thank you for the opportunity to provide industrial hygiene services for the 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: 061910923
Customer ID: SALU50
Customer PO:
Project ID:

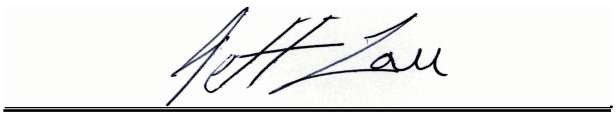
Attn: Indika Jayatilake
SaLUT
1818 New York Avenue, NE
Suite 218A
Washington, DC 20002
Project: PGCPS IAQ/19-035 Eleanor Roosevelt HS

Phone: (301) 595-3783
Fax: (301) 595-3787
Collected: 06/02/2019
Received: 06/03/2019
Analyzed: 06/06/2019

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

Lab Sample Number:	061910923-0001			061910923-0002			061910923-0003		
Client Sample ID:	28398598			28398663			28398617		
Volume (L):	75			75			75		
Sample Location	Main Office			Classroom 07			Classroom 014		
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	4.4	-	-	-	-	-	-
Aspergillus/Penicillium	-	-	-	-	-	-	1	40	16.7
Basidiospores	19	830	91.2	3	100	90.9	4	200	83.3
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	1	40	4.4	-	-	-	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	1*	10*	9.1	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Corynespora	-	-	-	-	-	-	-	-	-
Pestalotia/Pestalotiopsis	-	-	-	-	-	-	-	-	-
Polythrincium	-	-	-	-	-	-	-	-	-
Total Fungi	**21**	**910**	**100**	**4**	**110**	**100**	**5**	**240**	**100**
Hyphal Fragment	1	40	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	44	-	-	44	-	-	44	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	1	-	-	1	-

++ 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: 06/09/2019 10:41:36

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

EMSL Analytical, Inc.

528 Mineola Avenue Carle Place, NY 11514

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

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Lab Sample Number:	061910923-0004			061910923-0005			061910923-0006		
Client Sample ID:	28398561			28398559			28398581		
Volume (L):	75			75			75		
Sample Location	Classroom 015			Classroom 018			Hallway next to room 018		
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	8.3	9	400	30.1
Aspergillus/Penicillium	-	-	-	-	-	-	-	-	-
Basidiospores	5	200	30.8	9	400	83.3	19	830	62.4
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	10	440	67.7	1	40	8.3	3	100	7.5
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Corynespora	-	-	-	-	-	-	-	-	-
Pestalotia/Pestalotiopsis	-	-	-	-	-	-	-	-	-
Polythrincium	1*	10*	1.5	-	-	-	-	-	-
Total Fungi	**16**	**650**	**100**	**11**	**480**	**100**	**31**	**1330**	**100**
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	44	-	-	44	-	-	44	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	1	-	-	1	-

++ 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: 06/09/2019 10:41:36

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EMSL Analytical, Inc.

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

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EMSL Order: 061910923
Customer ID: SALU50
Customer PO:
Project ID:

Attn: Indika Jayatilake
SaLUT
1818 New York Avenue, NE
Suite 218A
Washington, DC 20002
Project: PGCPS IAQ/19-035 Eleanor Roosevelt HS

Phone: (301) 595-3783
Fax: (301) 595-3787
Collected: 06/02/2019
Received: 06/03/2019
Analyzed: 06/06/2019

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

Lab Sample Number:	061910923-0007			061910923-0008			061910923-0009		
Client Sample ID:	28398897			28398575			28398889		
Volume (L):	75			75			75		
Sample Location	Classroom 139			Classroom 118			Library		
Spore Types	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	-	-	-	2	90	13.4
Aspergillus/Penicillium	-	-	-	1	40	17.4	-	-	-
Basidiospores	4	200	100	3	100	43.5	11	480	71.6
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	2	90	39.1	3	100	14.9
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Corynespora	-	-	-	-	-	-	-	-	-
Pestalotia/Pestalotiopsis	-	-	-	-	-	-	-	-	-
Polythrincium	-	-	-	-	-	-	-	-	-
Total Fungi	**4**	**200**	**100**	**6**	**230**	**100**	**16**	**670**	**100**
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	44	-	-	44	-	-	44	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	2	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	1	-	-	1	-

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

Jeffrey Lau, Microbiology Laboratory Manager
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Collected: 06/02/2019
Received: 06/03/2019
Analyzed: 06/06/2019

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

Lab Sample Number:	061910923-0010			061910923-0011			061910923-0012		
Client Sample ID:	28398605			28398599			28398602		
Volume (L):	75			75			75		
Sample Location	Boys Locker Room			Cafeteria			Gymnasium		
Spore Types	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**
Alternaria (Ulocladium)	1*	10*	0.6	-	-	-	-	-	-
Ascospores	1	40	2.5	-	-	-	3	100	10.3
Aspergillus/Penicillium	1	40	2.5	1	40	6.2	-	-	-
Basidiospores	32	1400	88.1	13	570	87.7	20	870	89.7
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	3	100	6.3	1	40	6.2	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Corynespora	-	-	-	-	-	-	-	-	-
Pestalotia/Pestalotiopsis	-	-	-	-	-	-	-	-	-
Polythrincium	-	-	-	-	-	-	-	-	-
Total Fungi	**38**	**1590**	**100**	**15**	**650**	**100**	**23**	**970**	**100**
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	44	-	-	44	-	-	44	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	1	-	-	1	-

++ 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.

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Customer PO:
Project ID:

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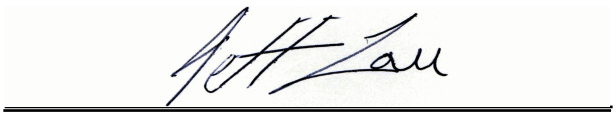
Project: PGCPS IAQ/19-035 Eleanor Roosevelt HS

Phone: (301) 595-3783
Fax: (301) 595-3787
Collected: 06/02/2019
Received: 06/03/2019
Analyzed: 06/06/2019

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

Lab Sample Number:	061910923-0013			061910923-0014			061910923-0015		
Client Sample ID:	28398600			28398596			28398558		
Volume (L):	75			75			75		
Sample Location	Auditorium 1			Auditorium 2			Front Entrance		
Spore Types	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	7	300	20.1	4	200	21.7	2	90	7.6
Aspergillus/Penicillium	3	100	6.7	3	100	10.9	-	-	-
Basidiospores	24	1000	67.1	11	480	52.2	22	960	80.7
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	2	90	6	3	100	10.9	3	100	8.4
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	1	40	4.3	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Corynespora	-	-	-	-	-	-	-	-	-
Pestalotia/Pestalotiopsis	-	-	-	-	-	-	1	40	3.4
Polythrincium	-	-	-	-	-	-	-	-	-
Total Fungi	**36**	**1490**	**100**	**22**	**920**	**100**	**28**	**1190**	**100**
Hyphal Fragment	-	-	-	1	40	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	1	40	-	1	40	-
Analyt. Sensitivity 600x	-	44	-	-	44	-	-	44	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	1	-	-	1	-

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



Jeffrey Lau, Microbiology Laboratory Manager
or other approved signatory

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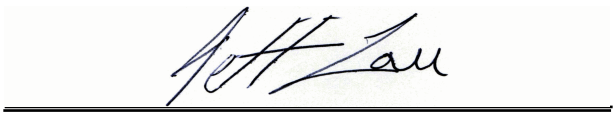
Project: PGCPS IAQ/19-035 Eleanor Roosevelt HS

Phone: (301) 595-3783
Fax: (301) 595-3787
Collected: 06/02/2019
Received: 06/03/2019
Analyzed: 06/06/2019

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

Lab Sample Number:	061910923-0016			061910923-0017			061910923-0018		
Client Sample ID:	28398555			28398843			28398549		
Volume (L):	75			75			75		
Sample Location	Classroom 220			Classroom 226			Outside Exterior EV Sample		
Spore Types	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	3	100	25.6	41	1800	17.8
Aspergillus/Penicillium	-	-	-	4	200	51.3	9	400	4
Basidiospores	9	400	90.9	2	90	23.1	139	6070	60.2
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	1	40	9.1	-	-	-	38	1700	16.8
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	1	40	0.4
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Corynespora	-	-	-	-	-	-	1	40	0.4
Pestalotia/Pestalotiopsis	-	-	-	-	-	-	-	-	-
Polythrincium	-	-	-	-	-	-	1	40	0.4
Total Fungi	**10**	**440**	**100**	**9**	**390**	**100**	**230**	**10090**	**100**
Hyphal Fragment	-	-	-	-	-	-	2	90	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	44	-	-	44	-	-	44	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	1	-	-	1	-

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



Jeffrey Lau, Microbiology Laboratory Manager
or other approved signatory

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Collected: 06/02/2019
Received: 06/03/2019
Analyzed: 06/06/2019

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

Lab Sample Number:	061910923-0019
Client Sample ID:	28398887
Volume (L):	
Sample Location	Field Blank 1

Spore Types	Raw Count	Count/m³	% 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	-	-	-
Corynespora	-	-	-
Pestalotia/Pestalotiopsis	-	-	-
Polythrincium	-	-	-
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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Microbiology Chain of Custody

EMSL Order Number (*Lab Use Only*): 061910923

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Company Name: SaLUT Inc.		**EMSL-Bill to:** ☒ Same ☐ Different If Bill to is Different note instructions in Comments** *Third Party Billing requires written authorization from third party*	
Street: 1818 New York Ave NE Suite 231			
City: Washington	**State/Province:** DC	**Zip/Postal Code:** 20002	**Country:** USA
Report To (Name): Indika Jayatilake		**Telephone #:** 301-595-3783	
Email Address: ijayatilake@salutinc.com		**Fax #:**	**Purchase Order:**
Project Number/Location: PGCPS IAQ/19-035 Eleanor Roosevelt HS		**Please Provide Results:** ☐ Fax ☒ Email	
Location Address: 7601 Hanover Parkway Greenbelt, MD 20770		**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: Jude Fonseka **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)
28398598	Main Office	Air	☐P ☐NP	M001	75L	6/2/2019	
28398663	Classroom 07	Air	☐P ☐NP	M001	75L	6/2/2019	
28398617	Classroom 014	Air	☐P ☐NP	M001	75L	6/2/2019	
28398561	Classroom 015	Air	☐P ☐NP	M001	75L	6/2/2019	
28398559	Classroom 018	Air	☐P ☐NP	M001	75L	6/2/2019	
28398581	Hallway next to room 018	Air	☐P ☐NP	M001	75L	6/2/2019	

Client Sample # (s): - **Total # of Samples:** 19 **Samples Received Chilled?** Yes / No

Relinquished (Client): **Date:** **Time:**

Received (Lab): Haumtamara Walk-In **Date:** 6/3/19 **Time:** 11:21

Comments/Special Instructions:

6/6/19

6/6/19

OrderID: 061910923

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Microbiology Chain of Custody

EMSL Order Number (*Lab Use Only*):

061910923

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)
28398897	Classroom 139	Air	☐ P ☐ NP	M001	75L	6/2/2019	
28398575	Classroom 118	Air	☐ P ☐ NP	M001	75L	6/2/2019	
28398889	Library	Air	☐ P ☐ NP	M001	75L	6/2/2019	
28398605	Boys Locker Room	Air	☐ P ☐ NP	M001	75L	6/2/2019	
28398599	Cafeteria	Air	☐ P ☐ NP	M001	75L	6/2/2019	
28398602	Gymnasium	Air	☐ P ☐ NP	M001	75L	6/2/2019	
28398600	Auditorium 1	Air	☐ P ☐ NP	M001	75L	6/2/2019	
28398596	Auditorium 2	Air	☐ P ☐ NP	M001	75L	6/2/2019	
28398558	Front Entrance	Air	☐ P ☐ NP	M001	75L	6/2/2019	
28398555	Classroom 220	Air	☐ P ☐ NP	M001	75L	6/2/2019	
2839843	Classroom 226	Air	☐ P ☐ NP	M001	75L	6/2/2019	
28398549	Outside Exterior EV Sample	Air	☐ P ☐ NP	M001	75L	6/2/2019	
28398887	Field Blank 1	N/A	☐ P ☐ NP	N/A	N/A	6/2/2019	
			☐ P ☐ NP				
			☐ P ☐ NP				
			☐ P ☐ NP				
			☐ P ☐ NP				
			☐ P ☐ NP				
			☐ P ☐ NP				
			☐ P ☐ NP				
			☐ P ☐ NP				
			☐ P ☐ NP				
			☐ P ☐ NP				
			☐ P ☐ NP				

Comments/Special Instructions:

6/6/19