

Certificate of Analysis AIHA-LAP EMLAP# 102747

7184 North Park Drive Pennsauken, New Jersey 08109 (856) 486-1177

www.aerobiology.net

Page 1 of 3

Garden State Envionmental 555 Broad Street Ste K Glen Rock, New Jersey 07452

Attn: Lab Reports

Project: WEST ORANGE #7129 ST CLOUD ELEMENTARY #1

Condition of Sample(s) Upon Receipt: Acceptable

Date Collected: 09/27/2018
Date Received: 09/28/2018
Date Analyzed: 10/05/2018
Date Reported: 10/05/2018
Project ID: 18037428

Lab Sample #: 18037428-001

Lab Sample #: 18037428-002

Lab Sample #: 18037428-003

Lab Sample #: 18037428-004

Lab Sample #: 18037428-005

Lab Sample #: 18037428-006

Client Sample #: SCES-B-HWH-01P

Sample Location: BOILER RM (HOT WATER HEATER)

Test: 1015.7, WATER, Legionella Analysis, CDC Method: SOP 2.35/SOP 2.22

- 1 LITER

Results: No Legionella isolated Liquid Volume: 1000 (mL)

MRL: 10 CFU/mL

Client Sample #: SCES-1-WM-01P

Sample Location: ROOM 210A (WATER MAIN)

Test: 1015.7, WATER, Legionella Analysis, CDC Method: SOP 2.35/SOP 2.22

- 1 LITER

Results: No Legionella isolated Liquid Volume: 1000 (mL)

MRL: 10 CFU/mL

Client Sample #: SCES-1-S-01P

Sample Location: ROOM 202 (SINK 4)

Test: 1015.7, WATER, Legionella Analysis, CDC Method: SOP 2.35/SOP 2.22

- 1 LITER

Results: No Legionella isolated Liquid Volume: 1000 (mL)

MRL: 10 CFU/mL

Client Sample #: SCES-1-S-02P

Sample Location: ROOM 217 KITCHEN (SINK 1)

Test: 1015.7, WATER, Legionella Analysis, CDC Method: SOP 2.35/SOP 2.22

- 1 LITER

Results: No Legionella isolated Liquid Volume: 1000 (mL)

MRL: 10 CFU/mL

Client Sample #: SCES-1-S-03P

Sample Location: RM 213 (SINK)

Test: 1015.7, WATER, Legionella Analysis, CDC Method: SOP 2.35/SOP 2.22

- 1 LITER

Results: No Legionella isolated Liquid Volume: 1000 (mL)

MRL: 10 CFU/mL

Client Sample #: SCES-2-S-04P

Sample Location: ROOM 314 (SINK)

Test: 1015.7, WATER, Legionella Analysis, CDC Method: SOP 2.35/SOP 2.22

- 1 LITER

Results: No Legionella isolated Liquid Volume: 1000 (mL)

MRL: 10 CFU/mL



Certificate of Analysis AIHA-LAP EMLAP# 102747

7184 North Park Drive Pennsauken, New Jersey 08109 (856) 486-1177

www.aerobiology.net

Garden State Envionmental 555 Broad Street Ste K Glen Rock, New Jersey 07452

Attn: Lab Reports

Project: WEST ORANGE #7129 ST CLOUD ELEMENTARY #1

Condition of Sample(s) Upon Receipt: Acceptable

Date Collected: 09/27/2018
Date Received: 09/28/2018
Date Analyzed: 10/05/2018
Date Reported: 10/05/2018
Project ID: 18037428

Client Sample #: SCES-2-05P Lab Sample #: 18037428-007

Sample Location: BOYS RR (SINK)

Test: 1015.7, WATER, Legionella Analysis, CDC Method: SOP 2.35/SOP 2.22

- 1 LITER

Results: No Legionella isolated Liquid Volume: 1000 (mL)

MRL: 10 CFU/mL

Page 2 of 3

Client Sample #: SCES-2-06P Lab Sample #: 18037428-008

Sample Location: ROOM SINK

Test: 1015.7, WATER, Legionella Analysis, CDC Method: SOP 2.35/SOP 2.22

- 1 LITER

Results: No Legionella isolated Liquid Volume: 1000 (mL)

MRL: 10 CFU/mL



Certificate of Analysis AIHA-LAP EMLAP# 102747

7184 North Park Drive Pennsauken, New Jersey 08109 (856) 486-1177 www.aerobiology.net

Date Collected: 09/27/2018 Garden State Envionmental Date Received: 09/28/2018 555 Broad Street Ste K Date Analyzed: 10/05/2018 Glen Rock, New Jersey 07452 Date Reported: 10/05/2018 Attn: Lab Reports

Project: WEST ORANGE #7129 ST CLOUD ELEMENTARY #1

Condition of Sample(s) Upon Receipt: Acceptable

Project ID: 18037428

Page 3 of 3

Legionella Facts

1. TESTING METHODOLOGY: Culture remains the recommended method for Legionella monitoring. Standardized culture procedures include ISO 11731: Detection and Enumeration of Legionella and CDC: Procedures for the Recovery of Legionella from the Environment.

Ref: BSR / ASHRE Standard 188P

- 2. Legionella species recovered from culture method include Legionella pneumophila and Legionella species not pneumophila. All Legionella pneumophila isolates are run against Serogroup 1 reagent and Serogroup 2-15 reagent. Legionella species not pneumophila isolates are screened in Legionella species reagent. (This species reagent includes micdadei, bozemanii, dumoffi, longbeachae, jordanis, gormanii, anisa and feelei)
- 3. If the final quantitative result is corrected for contamination based on the blank, the blank correction is stated in the sample comments section of the report.

Action Criteria for Legionella

		<u> </u>	
Legionella / ml	Cooling Towers and Evaporative Condensers	Suggested Remedial Action: Potable Water	Humidifier/Fogger
Detectable, but <1	1	2	3
1 - 9	2	3	4
10 - 99	3	4	5
100 - 999	4	5	5
≥ 1,000	5	5	5

Remedial Actions:

Level 1:

Review routine maintenance program recommended by the manufacturer of the equipment to ensure that the recommended program is being followed. The presence of barely detectable number of Legionella represents a low level of concern.

Implement action 1. Conduct follow-up analysis after a few weeks for evidence of further Legionella amplification. This level of Legionella represents little concern, but the number of organisms detected indicates that the system is a potential amplifier of Legionella.

Implement action 2. Conduct review of premises for the direct and indirect bioaerosols contact with occupants and health risk status of people who may come in contact with bioaerosols. Depending on the results of the review of the premises, action related to cleaning and/or biocide treatment of the equipment may be indicated. This level of Legionella represents a low but increased level of concern.

Implement action 3. Cleaning and/or biocide treatment of the equipment is indicated. This level of Legionella represents a moderately high level of concern, since it is approaching levels that may cause outbreaks. It is uncommon for samples to contain number of Legionella that fall in this category.

Level 5:

Immediate cleaning and/or biocide treatment of the equipment is definitely indicated. Conduct post treatment analysis to ensure effectiveness of the corrective action. The level of Legionella represents a high level of concern, since it poses the potential for causing an outbreak. It is very uncommon for samples to contain number of *Legionella* that fall in this category.

Ref: Legionella: Current Status and Emerging Perspectives: Barbaree, Breiman, Dufour: ASM



Syru 5. Blumg Suzanne S. Blevins, B.S., SM (ASCP) Laboratory Director