Aerobiology Laboratory Associates, Incorporated
A Pace® Laboratory

7184 North Park Drive
Pennsauken, NJ 08109
8564861177

Certificate of Analysis
NYS DOH ELAP Lab 12053

Sound Water Treatment, Inc.
92 North Avenue
New Rochelle NY, 10801
Project: **SCARSDALE HEATHCOAT**

Condition of Sample(s) Upon Receipt: Acceptable

Date Collected: 8/30/2023
Date Received: 8/31/2023
Date Analyzed: 9/11/2023
Date Reported: 9/11/2023
Project ID: 23036533

Legionella Summary Sheet

Client Sample #	Sample Location	Volume (mL)	MRL (CFU/mL)	Results (CFU/mL)	Legionella Isolated
1: 7	STORAGE TANK	100	1.0	NLI	
2: 8	RETURN	100	1.0	NLI	
3: 9	ROOM A1	100	1.0	NLI	
4: 10	ROOM B1	100	1.0	NLI	
5: 11	ROOM D1	100	1.0	NLI	
6: 12	ROOM E1	100	1.0	NLI	

NLI = No Legionella Isolated

Hilisa
Lab Manager

Suzanne Blevins
Laboratory Director

Legionella Facts

1. TESTING METHODOLOGY: Culture remains the recommended method for Legionella monitoring. Standardized culture procedures include ISO 11731:2017 *Detection and Enumeration of Legionella* and CDC: *Procedures for the Recovery of Legionella from the Environment*.Ref: BSR / ASHRAE Standard 188-2018

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 2-14 reagent. *Legionella* species not pneumophila isolates are screened in *Legionella* species reagent. (This species reagent includes *micdadei, bozemanii, dumoffi, longbeachae, jordanis, gormanii,* and *anisa*)

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Client Sample #: 7 — Lab Sample #: 23036533-001
Sample Location: STORAGE TANK
Test: 1015.6 Water, Potable, Legionella Analysis, ISO 11731:2017 — Liquid Volume: **100 mL**
Results: **No Legionella isolated** — MRL: **1.0 CFU/mL**

Client Sample #: 8 — Lab Sample #: 23036533-002
Sample Location: RETURN
Test: 1015.6 Water, Potable, Legionella Analysis, ISO 11731:2017 — Liquid Volume: **100 mL**
Results: **No Legionella isolated** — MRL: **1.0 CFU/mL**

Client Sample #: 9 — Lab Sample #: 23036533-003
Sample Location: ROOM A1
Test: 1015.6 Water, Potable, Legionella Analysis, ISO 11731:2017 — Liquid Volume: **100 mL**
Results: **No Legionella isolated** — MRL: **1.0 CFU/mL**

Client Sample #: 10 — Lab Sample #: 23036533-004
Sample Location: ROOM B1
Test: 1015.6 Water, Potable, Legionella Analysis, ISO 11731:2017 — Liquid Volume: **100 mL**
Results: **No Legionella isolated** — MRL: **1.0 CFU/mL**

Client Sample #: 11 — Lab Sample #: 23036533-005
Sample Location: ROOM D1
Test: 1015.6 Water, Potable, Legionella Analysis, ISO 11731:2017 — Liquid Volume: **100 mL**
Results: **No Legionella isolated** — MRL: **1.0 CFU/mL**

Client Sample #: 12 — Lab Sample #: 23036533-006
Sample Location: ROOM E1
Test: 1015.6 Water, Potable, Legionella Analysis, ISO 11731:2017 — Liquid Volume: **100 mL**
Results: **No Legionella isolated** — MRL: **1.0 CFU/mL**

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Signature Page

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1. Aerobiology Laboratory Associates, Inc. maintains accreditation with the American Industrial Hygiene Association Laboratory Accreditation Programs(AIHA LAP), LLC - Environmental Microbiology Laboratory Accreditation Program (EMLAP) in compliance with ISO/IEC 17025:2017.
2. Aerobiology Laboratory Associates, Inc. maintains accreditation and certification with local and state agencies where our laboratories are located.
3. Aerobiology Laboratory Associates, Inc. is certified by the state of Virginia as a Small, Woman and Minority (SWaM) business.
4. Aerobiology Laboratory Associates, Inc.'s New Jersey location has been approved by the New York Department of Health (ELAP) to analyze Legionella samples for POTABLE WATER and NON-POTABLE WATER.
5. Aerobiology Laboratory Associates, Inc. is a for-profit, privately held company, incorporated in the state of Virginia in 1997.
6. The results in this report are related to this project and these samples only.
7. Results in this report are intended for the Aerobiology Laboratory Associates, Inc. client listed above and cannot be discussed with anyone outside of that given company without written authorization.
8. Minimum Reporting Limits (MRL) for BULKS, DUSTS, SWABS, and WATER samples are a calculation based on 1 raw count, the sample size and the dilution plate on which organism was counted. Results are a compilation of counts taken from multiple dilutions and multiple medias.
9. Raw count is the total number of colonies identified on a given sample, without any calculations performed based on air volume, surface area, water volume, or weight.
10. Total count is a calculated value based on the type of sample submitted, the raw count, and the calculation related to the volume, weight or surface area.

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	Page 4 of 4

Legionella Facts

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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*

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.

Level 2: 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*.

Level 3: 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.

Level 4: 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