IAPMO R&T LAB

TEST REPORT

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Report Number: **3592-25003** **Project No.:** 46014

Report Issued: June 24, 2025

Report To: Quest Technologies Inc dba Crystal Quest Water Filters c/o ASSE International
55 Chastain Road, Suite 100
Kennesaw, GA 30144

Source of Samples: The filter cartridges were shipped to IAPMO R&T Lab from Quest Technologies and were received in good condition on May 7th, 2025.

Location of Testing: IAPMO R&T Lab, 5001 East Philadelphia Street, Ontario CA 91761

Dates of Evaluation: June 19 to June 20, 2025

Product Description: Bath Ball #1 – Shower Filter

Primary Standard: NSF/ANSI 177-2023 Chlorine Reduction (modified)

Scope of Evaluation: Samples were evaluated for Free Available Chlorine Reduction to NSF/ANSI 177 - 2023– 7.3.3

Conclusion: The samples described in the "Product Description" were evaluated according to the reference standard. See the following pages for details**.**

Report Status: **Complete.**

Tested By,

Phil Dietz
Assistant Manager, Water Filtration

Reviewed By,

Jaime A. Young

Jaime Young
Lab Director, Water Systems

All testing and sample preparation for this report was performed under the continuous, direct supervision of IAPMO R&T Lab, unless otherwise stated. The statement of compliance is based on the test results compared to the standard specifications without considering measurement uncertainty. The observations, test results and conclusions in this report apply only to the specific samples tested and are not indicative of the quality or performance of similar or identical products. Only the Client shown above is authorized to copy or distribute the report, and then only in its entirety. If presented with a copy of a Test Report without the IAPMO R&T Lab watermark background, contact IAPMO R&T Lab for verification. Any use of the IAPMO R&T Lab name for the sale or advertisement of the tested material, product or service is

Requirements for Compliance:
The systems shall reduce an influent challenge concentration of 1.80 – 2.20 mg/L FAC by a minimum of 50% at all sample points.

Table 1- Specifications of testing

Number of Units	Two
Cycle	50/50
Rated Capacity	250 gallons
Conditioning	Samples were flushed for 5 minutes.
Prefilter	None
Flowrate	Influent water was restricted to 0.5 gpm.
Sampling	Per Table 3 Below
Testing Notes	The test was suspended after the collection of failing effluent samples. Influent TOC was adjusted using potassium hydrogen phthalate

Influent water was prepared per the specifications in NSF/ANSI 177 Section 7.2.3 Those specifications are shown below.

Table 2- Water Specification

Source Water	Municipal
pH	7.0-8.0
Temperature	38-42 °C
Free Available Chlorine (FAC)	1.8-2.2 mg/L
Total dissolved solids	200-500 mg/L
Total organic carbon TOC	1.0-2.0 mg/L
Turbidity	< 1 NTU
Total Chloramines	< 0.1 mg/L

TOC was adjusted using potassium hydrogen phthalate.

Samples were set up according to manufacturer's instructions.

Findings:

Table 3 – FAC Concentrations

Sample Point (gallons)	Influent (mg/L)	E1 (mg/L)	E2 (mg/L)	Flowrate E1 (gpm)	Flowrate E2 (gpm)	% Reduction E1	% Reduction E2
10 UV	2.07	0.09	0.08	0.5	0.5	96%	96%
25	2.02	1.01	1.00	0.5	0.5	50%	50%
50	2.06	**1.23**	1.02	0.5	0.5	**40%**	50%
Average	2.05	0.78	0.70			62%	66%

RL (REPORTING LIMIT=0.05 mg/L for Chlorine) Any bolded effluents are higher than the max allowable effluent outlined by the standard

Figure 1- Picture of Units Tested

