



Test Report

IAPMO R&T LAB (NJ)



1041 Glassboro Road Suite D-1, Williamstown NJ 08094
IAPMO ID# 000102 ANAB Cert # AT 3220

Send To:

James Enterprise Inc
1981 Aspen Circle
Pueblo, CO 81006

Result: Passed

Date: 04/18/2024

Customer Name: James Enterprise Inc

Tested To: NSF/ANSI Standard 53 Mercury Reduction pH 8.5

Trade Designation/Model Number: BOROUX Foundation

Test Type: Qualification

Project Manager: Corey Elise Young

Thank you for having your product tested by IAPMO R & T NJ Lab.

Please contact your Project Manager if you have any questions or concerns pertaining to this report.

Report Authorization

Corey Elise Young
Corey Elise Young
QC Manager

Date: 04/18/2024



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NSF/ANSI Standard 53 Mercury Reduction at pH 8.5: Passed

Manufacturer's Name: James Enterprise Inc

Sample Type: Qualification

Product: Gravity Filter

Flow Rate: 10 gpd

Filter Capacity: 200 gallons

Cycle: 15-60 min rest between loads

Conditioning Procedure: Discard first batch

Physical Description of Sample: Gravity Filter

Test Description: NSF/ANSI Std. 53 – Mercury Reduction Testing pH 8.5

Trade Designation/Model Number: BOROUX Foundation

Unit Volume: 100 mL

Performance Standard: NSF/ANSI 53 – 2022

Pass/Fail Criteria: (Mercury Emerging Compound Maximum Product Water Concentration): 2 µg/L

Water Characteristics

Accumulated Volume Effluent	pH	*Temperature (17.5-22.5 C)	Alkalinity (100-250)	Hardness (100-200)	Turbidity <1 NTU	TDS	Polyphosphate as P <0.5 ppm	*Flow Rate (gpd)
	(8.25-8.75)					200-500 mg/L		
10 UV	8.52	20.0	149	155	0.5	253	0.2	10
50%	8.43	20.1	160	149	0.4	238	0.2	10
100%	8.41	20.0	153	151	0.3	245	0.2	10
150%	8.50	19.6	147	146	0.3	229	0.2	10
180%	8.60	19.9	151	145	0.4	243	0.2	10
200%	8.62	20.1	148	142	0.3	244	0.2	10
300%	8.50	19.6	147	146	0.3	229	0.2	10
400%	8.60	19.9	151	145	0.4	243	0.2	10
500%	8.54	19.5	158	150	0.3	247	0.2	10
600%	8.5	19.2	152	149	0.3	233	0.2	10
700%	8.51	18.2	154	146	0.2	238	0.2	10
800%	8.54	18.3	150	135	0.3	221	0.2	10
900%	8.51	18.4	141	136	0.3	229	0.2	10
1000%	8.45	18.4	140	145	0.2	234	0.2	10
1100%	8.46	18.5	151	142	0.2	231	0.3	10
1200%	8.5	18.4	149	141	0.2	230	0.2	10
1300%	8.47	18.5	154	136	0.2	221	0.2	10
1400%	8.42	18.2	147	156	0.2	230	0.2	10
1500%	8.4	18.0	140	156	0.2	238	0.3	10
1600%	8.41	18.2	142	153	0.3	236	0.3	10
1700%	8.45	18.3	146	148	0.3	233	0.3	10
Average	8.49	19.0	149	146	0.3	235	0.2	10

***Note:** Not Included in the ANAB ISO 17025 Scope of Certification.



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Data Analysis Table

Sample Point	Accumulated Volume Effluent	Influent Mercury (µg/L)	Effluent Mercury Concentration (µg/L)	% Reduction	Passed/Failed
10 UV	Start	7.1	<0.5	98.59%	Passed
50%	25 gallons	6.6	0.6	90.91%	Passed
100%	50 gallons	6.8	0.9	86.76%	Passed
150%	75 gallons	5.4	0.9	83.33%	Passed
180%	90 gallons	5.7	0.2	96.49%	Passed
200%	100 gallons	5.9	0.2	96.61%	Passed
300%	150 gallons	6.5	<0.5	98.46%	Passed
400%	200 gallons	6.0	<0.5	98.33%	Passed
500%	250 gallons	5.4	<0.5	98.15%	Passed
600%	300 gallons	5.8	<0.5	98.28%	Passed
700%	350 gallons	5.7	0.2	96.49%	Passed
800%	400 gallons	6.2	<0.5	98.39%	Passed
900%	450 gallons	5.9	0.2	96.61%	Passed
1000%	500 gallons	5.9	0.9	84.75%	Passed
1100%	550 gallons	6.0	0.1	98.33%	Passed
1200%	600 gallons	5.9	0.9	84.75%	Passed
1300%	650 gallons	5.8	0.1	98.28%	Passed
1400%	700 gallons	6.0	1.2	80.00%	Passed
1500%	750 gallons	6.3	0.6	90.48%	Passed
1600%	800 gallons	6.2	0.4	93.55%	Passed
1700%	900 gallons	6.1	1.2	80.33%	Passed

Mercury Detection Limit: 0.5 µg/L

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Filter System Tested



Disclaimer: The test results are only related to the filter cartridges tested, in the condition received at the laboratory.

Corey Elise Young
Corey Elise Young
QC Manager