



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

Results: Mercury Passed at 900 gallons. Uranium Passed at 500 gallons. Cesium passed at 50 gallons. Date: 04/18/2024

Customer Name: James Enterprise Inc

Tested To: NSF/ANSI Standard 53 Mercury-Uranium-Gross Beta (Cesium) Reduction pH 6.5 PT 200%

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-Uranium-Gross Beta (Cesium) Reduction at pH 6.5

Manufacturer's Name: James Enterprise Inc

Sample Type: Qualification

Product: Gravity Filter

Flow Rate: 10 gpd

Filter Capacity: 100 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-Uranium-Gross Beta (Cesium) Reduction Testing pH 6.5

Trade Designation/Model Number: BOROUX Foundation

Unit Volume: 100 mL

Performance Standard: NSF/ANSI 53 – 2022

Pass/Fail Criteria (Mercury): 2 µg/L

Pass/Fail Criteria (Uranium): 30 µg/L

Pass/Fail Criteria (Gross Beta) (Cesium): 15 µCi/L



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Water Characteristics

Sample	pH	*Temperature (17.5-22.5)	Alkalinity (10-30)	Hardness (10-30)	Turbidity <1	TDS	Polyphosphate as P	*Flow Rate
Point	(6.25-6.75)					<100 mg/L	<0.5 ppm	(gpd)
10 UV	6.65	19.8	24	21	0.4	52	0.3	10
50%	6.60	19.9	21	23	0.4	58	0.2	10
100%	6.70	20.0	22	24	0.3	56	0.2	10
150%	6.51	20.1	24	24	0.3	59	0.2	10
180%	6.55	20.0	22	24	0.3	54	0.2	10
200%	6.49	20.0	23	25	0.4	56	0.2	10
300%	6.52	19.6	20	21	0.3	48	0.2	10
400%	6.51	19.8	25	22	0.4	61	0.2	10
500%	6.57	19.6	26	24	0.3	52	0.3	10
600%	6.53	19.2	21	23	0.2	58	0.2	10
700%	6.50	19.0	21	20	0.3	57	0.2	10
800%	6.51	18.3	22	20	0.4	46	0.2	10
900%	6.45	18.4	22	24	0.3	48	0.2	10
1000%	6.5	18.5	23	24	0.3	49	0.2	10
1100%	6.45	18.4	25	26	0.3	41	0.2	10
1200%	6.48	18.4	22	25	0.4	45	0.3	10
1300%	6.50	18.5	23	23	0.3	49	0.2	10
1400%	6.54	18.2	25	24	0.3	45	0.2	10
1500%	6.50	18.0	27	27	0.3	56	0.2	10
1600%	6.54	18.2	24	26	0.4	51	0.2	10
1700%	6.57	18.3	24	27	0.4	50	0.3	10
Average	6.53	19.1	23	24	0.3	52	0.2	10

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



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Data Analysis Table Mercury Result: Passed at 900 gallons.

Sample Point	Accumulated Volume Effluent	Influent Mercury (µg/L)	Effluent Mercury Concentration (µg/L)	% Reduction	Passed/Failed
10 UV	10 UV	6.5	<0.5	98.46%	Passed
50%	25 gallons	5.9	<0.5	98.31%	Passed
100%	50 gallons	5.8	0.5	91.38%	Passed
150%	75 gallons	7.1	0.9	87.32%	Passed
180%	90 gallons	6.1	<0.5	98.36%	Passed
200%	100 gallons	5.9	0.3	94.92%	Passed
300%	150 gallons	6.5	0.3	95.38%	Passed
400%	200 gallons	5.9	0.1	98.31%	Passed
500%	250 gallons	6.6	<0.5	98.48%	Passed
600%	300 gallons	6.2	1.4	77.42%	Passed
700%	350 gallons	5.8	<0.5	98.28%	Passed
800%	400 gallons	6.0	<0.5	98.33%	Passed
900%	450 gallons	5.9	0.2	98.31%	Passed
1000%	500 gallons	6.1	0.6	90.16%	Passed
1100%	550 gallons	6.5	0.1	98.46%	Passed
1200%	600 gallons	6.1	0.6	90.16%	Passed
1300%	650 gallons	5.9	0.1	98.31%	Passed
1400%	700 gallons	6.0	0.9	85.00%	Passed
1500%	750 gallons	6.0	0.5	91.67%	Passed
1600%	800 gallons	6.2	0.7	88.71%	Passed
1700%	900 gallons	5.8	0.9	84.48%	Passed

Mercury Detection Limit: 0.5 µg/L

Data Analysis Table Uranium Result: Passed at 500 gallons.

Sample Point	Accumulated Volume Effluent	Influent Uranium (µg/L)	Effluent Uranium Concentration (µg/L)	% Reduction	Passed/Failed
10 UV	10 UV	74	<1	98.65%	Passed
50%	25 gallons	97	<1	98.97%	Passed
100%	50 gallons	103	<1	99.03%	Passed
150%	75 gallons	104	<1	99.04%	Passed
180%	90 gallons	83	<1	98.80%	Passed
200%	100 gallons	91	<1	98.90%	Passed
300%	150 gallons	89	1	98.88%	Passed
400%	200 gallons	90	2	98.89%	Passed
500%	250 gallons	86	4	98.84%	Passed
600%	300 gallons	123	4	99.19%	Passed
700%	350 gallons	97	3	98.97%	Passed
800%	400 gallons	99	11	98.99%	Passed
900%	450 gallons	124	23	99.19%	Passed
1000%	500 gallons	102	6	99.02%	Passed

Uranium Detection Limit: 1 µg/L



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Data Analysis Table Gross Beta (Cesium) Result: Passed at 50 gallons.

Accumulated Volume Effluent	Influent Gross Beta (Cesium) ($\mu\text{Ci/L}$)	Effluent Gross Beta (Cesium) Concentration ($\mu\text{Ci/L}$)	% Reduction	Passed/Failed
10 UV	201	1	99.50%	Passed
25 gallons	208	2	99.04%	Passed
50 gallons	201	10	95.02%	Passed

Cesium Detection Limit: 1 $\mu\text{Ci/L}$

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