



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 at 200 gallons

Date: 01/29/2024

Customer Name: James Enterprise Inc

Tested To: NSF/ANSI Std 401 Section 7, Group 3

Trade Designation/Model Number: BOROUX Foundation

Test Type: R & D

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: 01/29/2024



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Standard 401 Emerging Compounds Group 3 Reduction: Passed at 200 gallons.

Manufacturer's Name: James Enterprise Inc

Sample Type: Gravity Filter

Product: R & D

Flow Rate: 10 gpd

Filter Capacity: 200 Gallons

Conditioning Procedure: Discard first batch

Cycle: 15-60 min rest between loads

Physical Description of Sample: Gravity Filter

Test Description: NSF/ANSI Std 401 Section 7, Group 3– Emerging Compound Reduction Testing Group 3

Trade Designation/Model Number: BOROUX Foundation

Unit Volume: 100 mL

Performance Standard: NSF/ANSI Std 401 Section 7 – 2022

Pass/Fail Criteria (Emerging Compound Maximum Product Water Concentration):

Phenytoin passing criteria: 30 ng/L

Ibuprofen passing criteria: 60 ng/L

Naproxen passing criteria: 20 ng/L

Estrone passing criteria: 20 ng/L

Bisphenol A passing criteria: 300 ng/L

Nonylphenol passing criteria: 200 ng/L

Decision Rule: Pass/Fail based on simple acceptance of the analytical results above the NSF/ANSI Std limit.

Water Characteristics

Sample Point	pH (7.5±0.5)	Temperature	TDS	Turbidity	TOC	Flow Rate
		(20±3°C)	(200 to 500 mg/L)	(<1 NTU)	(1-2 mg/L)	(gpd)
Start	7.41	19.9	248	0.5	1.4	10
50%	7.38	20.0	241	0.5	1.4	10
100%	7.35	20.1	239	0.4	1.3	10
150%	7.40	20.0	250	0.4	1.3	10
180%	7.41	19.9	246	0.4	1.2	10
200%	7.39	20.0	247	0.3	1.3	10
300%	7.41	19.6	253	0.5	1.3	10
400%	7.52	19.4	251	0.5	1.3	10
500%	7.51	19.5	268	0.4	1.2	10



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Phenytoin Data Summary Table

Sample Point	Accumulated Volume Effluent	Influent Phenytoin (ng/L)	Effluent Phenytoin (ng/L)	Passed/Failed
10 UV	Start	201	1	Passed
50%	25 gallons	212	5	Passed
100%	50 gallons	184	1	Passed
150%	75 gallons	202	6	Passed
180%	90 gallons	205	5	Passed
200%	100 gallons	208	5	Passed
300%	150 gallons	211	3	Passed
400%	200 gallons	192	<1	Passed
500%	250 gallons	197	1	Passed

Phenytoin Reporting Limit: 1 ng/L

Naproxen Data Summary Table

Sample Point	Accumulated Volume Effluent	Influent Naproxen (ng/L)	Effluent Naproxen (ng/L)	Passed/Failed
10 UV	Start	148	3	Passed
50%	25 gallons	144	4	Passed
100%	50 gallons	130	2	Passed
150%	75 gallons	134	4	Passed
180%	90 gallons	162	1	Passed
200%	100 gallons	135	5	Passed
300%	150 gallons	145	1	Passed
400%	200 gallons	136	<1	Passed
500%	250 gallons	153	1	Passed

Naproxen Reporting Limit: 1 ng/L

Estrone Data Summary Table

Sample Point	Accumulated Volume Effluent	Influent Estrone (ng/L)	Effluent Estrone (ng/L)	Passed/Failed
10 UV	Start	131	3	Passed
50%	25 gallons	138	2	Passed
100%	50 gallons	155	2	Passed
150%	75 gallons	161	6	Passed
180%	90 gallons	133	3	Passed
200%	100 gallons	130	2	Passed
300%	150 gallons	141	6	Passed
400%	200 gallons	166	<1	Passed
500%	250 gallons	162	<1	Passed

Estrone Reporting Limit: 1 ng/L



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Bisphenol A Filter #1 Data Summary Table

Sample Point	Accumulated Volume Effluent	Influent Bisphenol A (ng/L)	Effluent Bisphenol A (ng/L)	Passed/Failed
10 UV	Start	2112	<10	Passed
50%	25 gallons	2171	<10	Passed
100%	50 gallons	2137	32	Passed
150%	75 gallons	2157	29	Passed
180%	90 gallons	2262	54	Passed
200%	100 gallons	1917	115	Passed
300%	150 gallons	2184	219	Passed
400%	200 gallons	2118	134	Passed

Bisphenol A Reporting Limit: 10 ng/L

Ibuprofen Data Summary Table

Sample Point	Accumulated Volume Effluent	Influent Ibuprofen (ng/L)	Effluent Ibuprofen (ng/L)	Passed/Failed
10 UV	Start	410	<10	Passed
50%	25 gallons	398	<10	Passed
100%	50 gallons	424	<10	Passed
150%	75 gallons	413	13	Passed
180%	90 gallons	424	34	Passed
200%	100 gallons	460	26	Passed
300%	150 gallons	444	20	Passed
400%	200 gallons	407	53	Passed

Ibuprofen Reporting Limit: 10 ng/L

Nonylphenol Data Summary Table

Sample Point	Accumulated Volume Effluent	Influent Nonylphenol ng/L)	Effluent Nonylphenol (ng/L)	Passed/Failed
10 UV	Start	1433	<10	Passed
50%	25 gallons	1442	<10	Passed
100%	50 gallons	1371	11	Passed
150%	75 gallons	1367	<10	Passed
180%	90 gallons	1372	11	Passed
200%	100 gallons	1447	24	Passed
300%	150 gallons	1414	29	Passed
400%	200 gallons	1342	38	Passed
500%	250 gallons	1484	61	Passed

Nonylphenol Reporting Limit: 10 ng/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