

Analysis Report

Date of Analysis: 19.02.2025

Customer: Wendell Sherman

Analysis No: OCR221373

Customer ID: 7882

Date of Sampling: 09.02.2025 – 12:00

Tank: 795 L reef tank

Main Parameters

Parameter	Measured Value	Ideal Value	Rating
Salinity	33.1 psu	35 psu	✓
Alkalinity (KH)	8.16 dKH	7.5 dKH	✓

Main Elements

Parameter	Measured Value	Ideal Value	Rating
Calcium	382 mg/l	416 mg/l	✓
Boron	4.8 mg/l	4.3 mg/l	✓
Bromide	46 mg/l	63 mg/l	⚠
Chloride	18544 mg/l	18347 mg/l	✓
Potassium	388 mg/l	378 mg/l	✓
Magnesium	1373 mg/l	1229 mg/l	⚠
Sodium	9977 mg/l	10214 mg/l	✓
Strontium	7.8 mg/l	7.6 mg/l	✓
Sulfate	2442 mg/l	2553 mg/l	✓

Trace Elements

Parameter	Measured Value	Ideal Value	Rating
Barium	23.8 µg/l	10-100 µg/l	✓
Chromium	n.n.	0.5 µg/l	✓
Cobalt	n.n.	0.5 µg/l	✓
Iron	n.n.	1-3 µg/l	✓
Fluoride	1.04 mg/l	1.3 mg/l	✓
Iodine	n.n.	50-70 µg/l	↓
Copper	n.n.	1-3 µg/l	✓
Lithium	535 µg/l	50-150 µg/l	↑
Manganese	n.n.	1 µg/l	↓
Molybdenum	16.1 µg/l	10-15 µg/l	✓
Nickel	n.n.	1 µg/l	✓
Rubidium	50 µg/l	90-150 µg/l	⚠
Selenium	n.n.	0 µg/l	✓
Vanadium	0.8 µg/l	2-3 µg/l	✓
Zinc	9.0 µg/l	1 µg/l	⚠
Tin	9.2 µg/l	n.n. µg/l	⚠

Pollutants




Parameter	Measured Value	Ideal Value	Rating
Aluminium	51.7 µg/l	< 40 µg/l	↗
Bismuth	n.n.	n.n. µg/l	✓
Lead	n.n.	n.n. µg/l	✓
Mercury	n.n.	n.n. µg/l	✓
Antimony	n.n.	n.n. µg/l	✓
Titan	n.n.	n.n. µg/l	✓
Cadmium	n.n.	n.n. µg/l	✓
Uranium	n.n.	n.n. µg/l	✓
Beryllium	n.n.	n.n. µg/l	✓
Arsenic	n.n.	n.n. µg/l	✓
Lanthanum	n.n.	< 3 µg/l	✓
Thallium	n.n.	n.n. µg/l	✓

Nutrients

Parameter	Measured Value	Ideal Value	Rating
Phosphate (photometric)	0.015 mg/l	0,03–0,1 mg/l	↘
Total Phosphorous (ICP)	3 µg/l	10–50 µg/l	↓
Nitrate	1.54 mg/l	2–15 mg/l	✓
Nitrite	0.052 mg/l	< 0,3 mg/l	✓
Silicon	61 µg/l	50–250 µg/l	✓

Osmose

Parameter	Measured Value	Ideal Value	Rating
Copper (RO)	n.n.	n.n. µg/l	✓
Zinc (RO)	n.n.	n.n. µg/l	✓
Silicon (RO)	197 µg/l	n.n. µg/l	↗
Beryllium (RO)	n.n.	n.n. µg/l	✓
Cobalt (RO)	n.n.	n.n. µg/l	✓
Chromium (RO)	n.n.	n.n. µg/l	✓
Iron (RO)	n.n.	n.n. µg/l	✓
Lithium (RO)	n.n.	n.n. µg/l	✓
Manganese (RO)	n.n.	n.n. µg/l	✓
Molybdenum (RO)	n.n.	n.n. µg/l	✓
Nickel (RO)	n.n.	n.n. µg/l	✓
Phosphorus (RO)	n.n.	n.n. µg/l	✓
Lead (RO)	n.n.	n.n. µg/l	✓
Antimony (RO)	n.n.	n.n. µg/l	✓
Tin (RO)	n.n.	n.n. µg/l	✓
Titanium (RO)	n.n.	n.n. µg/l	✓
Vanadium (RO)	n.n.	n.n. µg/l	✓

-  No action required
-  Need for action
-  Urgent need for action

- n.n Not found
- n.b Not measured

Interpretation

Hello!

Please enter the above results into the Reef Moonshiner's ICP Assessment tool for a detailed assessment and dosing instructions, which can be found here under this weblink:

<https://www.reefmoonshiners.com/handbook-tools>

All the best,

Christoph