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Analysis Report

Date of Analysis: 18.10.2024
Analysis No: MSR225969
Date of Sampling: 08.10.2024 – 22:14

Customer: Robert Wolters
Customer ID: 7414
Tank: 80 L reef tank

Main Parameters

Parameter	Measured Value		Ideal Value		Rating
Salinity	38.3	psu	35	psu	↑
Alkalinity (KH)	6.93	dKH	7.5	dKH	✓
SAC254	3.25	m-1	2-8	m-1	✓

Main Elements

Parameter	Measured Value		Ideal Value		Rating
Calcium	460	mg/l	481	mg/l	✓
Boron	5.2	mg/l	4.9	mg/l	✓
Bromide	66	mg/l	73	mg/l	✓
Chloride	22033	mg/l	21229	mg/l	✓
Potassium	448	mg/l	438	mg/l	✓
Magnesium	1535	mg/l	1423	mg/l	✓
Sodium	11856	mg/l	11818	mg/l	✓
Strontium	6.8	mg/l	8.8	mg/l	↘
Sulfate	3062	mg/l	2955	mg/l	✓

Trace Elements

Parameter	Measured Value		Ideal Value		Rating
Barium	78.44	µg/l	10-100	µg/l	✓
Chromium	0.24	µg/l	0,2-0,5	µg/l	✓
Cobalt	0.07	µg/l	0,05-0,2	µg/l	✓
Iron	0.38	µg/l	0,1-3	µg/l	✓
Fluoride	1.28	mg/l	1.3	mg/l	✓
Iodine	638.7	µg/l	50-70	µg/l	↑
Copper	0.21	µg/l	0,2-2	µg/l	✓
Lithium	255	µg/l	50-150	µg/l	↗
Manganese	0.37	µg/l	0,2-1	µg/l	✓
Molybdenum	17.2	µg/l	10-15	µg/l	✓
Nickel	1.26	µg/l	2-5	µg/l	↘
Rubidium	127.3	µg/l	90-150	µg/l	✓
Selenium	0.233	µg/l	0,2-0,5	µg/l	✓
Vanadium	1.02	µg/l	2-3	µg/l	↘

Zinc	1.94	µg/l	1–3 µg/l	✓
Tin	1.15	µg/l	0,05–1 µg/l	✓
Caesium	0.75	µg/l	0,3–3 µg/l	✓

Pollutants

Parameter	Measured Value		Ideal Value	Rating
Aluminium	30.9	µg/l	< 40 µg/l	✓
Bismuth	0.009	µg/l	< 1 µg/l	✓
Lead	0.036	µg/l	< 3 µg/l	✓
Mercury	n.n.		< 0,5 µg/l	✓
Antimony	2.427	µg/l	< 3 µg/l	✓
Titan	n.n.		< 1 µg/l	✓
Cadmium	0.055	µg/l	< 0,5 µg/l	✓
Uranium	0.197	µg/l	< 3 µg/l	✓
Beryllium	0.009	µg/l	< 0,2 µg/l	✓
Arsenic	0.72	µg/l	< 3 µg/l	✓
Lanthanum	5.474	µg/l	< 3 µg/l	↗
Thallium	0.035	µg/l	< 0,5 µg/l	✓
Gallium	n.n.		< 2 µg/l	✓
Tellurium	n.n.		< 2 µg/l	✓
Thorium	n.n.		< 0,3 µg/l	✓
Cerium	n.n.		< 0,5 µg/l	✓
Ruthenium	n.n.		< 0,1 µg/l	✓
Neodymium	0.012	µg/l	< 0,1 µg/l	✓
Tungsten	0.023	µg/l	< 2 µg/l	✓

Nutrients

Parameter	Measured Value		Ideal Value	Rating
Phosphate (photometric)	0.016	mg/l	0,03–0,1 mg/l	↘
Nitrate	88.1	mg/l	2–15 mg/l	↑
Nitrite	0.094	mg/l	< 0,3 mg/l	✓
Silicon	99	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)	n.n.	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	n.n	Not found
↗↘	Need for action	n.b	Not measured
↑↓	Urgent need for action		

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