



Analysis Report

Date of Analysis: 08.10.2024

Analysis No: MSR225471

Date of Sampling: 28.09.2024 – 10:00

Customer: Kristopher Stefanski

Customer ID: 7128

Tank: 2365 L reef tank

Main Parameters

Parameter	Measured Value	Ideal Value	Rating
Salinity	35.9 psu	35 psu	✓
Alkalinity (KH)	7.99 dKH	7.5 dKH	✓
SAC254	2.8 m-1	2-8 m-1	✓

Main Elements

Parameter	Measured Value	Ideal Value	Rating
Calcium	417 mg/l	451 mg/l	✓
Boron	4.4 mg/l	4.6 mg/l	✓
Bromide	70 mg/l	69 mg/l	✓
Chloride	19881 mg/l	19899 mg/l	✓
Potassium	446 mg/l	410 mg/l	✓
Magnesium	1298 mg/l	1333 mg/l	✓
Sodium	10847 mg/l	11078 mg/l	✓
Strontium	7.7 mg/l	8.2 mg/l	✓
Sulfate	2666 mg/l	2769 mg/l	✓

Trace Elements

Parameter	Measured Value	Ideal Value	Rating
Barium	40.14 µg/l	10-100 µg/l	✓
Chromium	0.15 µg/l	0,2-0,5 µg/l	⚠
Cobalt	0.04 µg/l	0,05-0,2 µg/l	✓
Iron	0.21 µg/l	0,1-3 µg/l	✓
Fluoride	1.01 mg/l	1.3 mg/l	✓
Iodine	40.6 µg/l	50-70 µg/l	✓
Copper	0.3 µg/l	0,2-2 µg/l	✓
Lithium	251 µg/l	50-150 µg/l	⚠
Manganese	0.13 µg/l	0,2-1 µg/l	⚠
Molybdenum	12.9 µg/l	10-15 µg/l	✓
Nickel	2.14 µg/l	2-5 µg/l	✓
Rubidium	119.3 µg/l	90-150 µg/l	✓
Selenium	0.031 µg/l	0,2-0,5 µg/l	⬇
Vanadium	1.08 µg/l	2-3 µg/l	⚠

Zinc	2.64	µg/l	1–3 µg/l	✓
Tin	1.23	µg/l	0,05–1 µg/l	✓
Caesium	0.66	µg/l	0,3–3 µg/l	✓

Pollutants

Parameter	Measured Value	Ideal Value	Rating
Aluminium	6.7 µg/l	< 40 µg/l	✓
Bismuth	n.n.	< 1 µg/l	✓
Lead	0.108 µg/l	< 3 µg/l	✓
Mercury	n.n.	< 0,5 µg/l	✓
Antimony	0.155 µg/l	< 3 µg/l	✓
Titan	n.n.	< 1 µg/l	✓
Cadmium	0.025 µg/l	< 0,5 µg/l	✓
Uranium	0.556 µg/l	< 3 µg/l	✓
Beryllium	n.n.	< 0,2 µg/l	✓
Arsenic	0.641 µg/l	< 3 µg/l	✓
Lanthanum	0.094 µg/l	< 3 µg/l	✓
Thallium	0.033 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	0.005 µg/l	< 0,5 µg/l	✓
Ruthenium	n.n.	< 0,1 µg/l	✓
Neodymium	0.021 µg/l	< 0,1 µg/l	✓
Tungsten	n.n.	< 2 µg/l	✓

Nutrients

Parameter	Measured Value	Ideal Value	Rating
Phosphate (photometric)	0.074 mg/l	0,03–0,1 mg/l	✓
Nitrate	4.9 mg/l	2–15 mg/l	✓
Nitrite	0.166 mg/l	< 0,3 mg/l	✓
Silicon	82 µg/l	50–250 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