



Analysis Report

Date of Analysis: 10.08.2023

Analysis No: MSR221299

Date of Sampling: 01.08.2023 – 12:00

Customer: John Nicolosi

Customer ID: 5846

Tank: reef tank

Main Parameters

Parameter	Measured Value	Ideal Value	Rating
Salinity	34,9 psu	35,0 psu	✓
Alkalinity (KH)	9,22 dKH	7,50 dKH	↗

Main Elements

Parameter	Measured Value	Ideal Value	Rating
Calcium	404 mg/l	439 mg/l	✓
Boron	4,4 mg/l	4,5 mg/l	✓
Bromide	113 mg/l	66,8 mg/l	↑
Chloride	19723 mg/l	19345 mg/l	✓
Potassium	397 mg/l	399 mg/l	✓
Magnesium	1439 mg/l	1396 mg/l	✓
Sodium	11063 mg/l	10769 mg/l	✓
Strontium	7,1 mg/l	8,0 mg/l	✓
Sulfate	4003 mg/l	2692 mg/l	↑

Trace Elements

Parameter	Measured Value	Ideal Value	Rating
Barium	4,14 µg/l	10–100 µg/l	↘
Chromium	0,04 µg/l	0,2–0,5 µg/l	↓
Cobalt	0,02 µg/l	0,05–0,2 µg/l	↓
Iron	0,12 µg/l	0,1–3 µg/l	✓
Fluoride	0,49 mg/l	1,3 mg/l	↓
Iodine	9,9 µg/l	50–70 µg/l	↓
Copper	n.n.	0,2–2 µg/l	↓
Lithium	1336 µg/l	50–150 µg/l	↑
Manganese	0,03 µg/l	0,2–1 µg/l	↓
Molybdenum	15,0 µg/l	10–15 µg/l	✓
Nickel	0,84 µg/l	2–5 µg/l	↓
Rubidium	283,1 µg/l	90–150 µg/l	↗
Selenium	0,097 µg/l	0,2–0,5 µg/l	↘

Vanadium	3,18 µg/l	2–3 µg/l	✓
Zinc	0,19 µg/l	1–3 µg/l	↓
Tin	0,56 µg/l	0,05–1 µg/l	✓
Caesium	2,27 µg/l	0,3–3 µg/l	✓

Pollutants

Parameter	Measured Value	Ideal Value	Rating
Aluminium	1,0 µg/l	< 40 µg/l	✓
Bismuth	n.n.	< 1 µg/l	✓
Lead	n.n.	< 3 µg/l	✓
Mercury	n.n.	< 0,5 µg/l	✓
Antimony	3,978 µg/l	< 3 µg/l	↗
Titan	n.n.	< 1 µg/l	✓
Cadmium	0,029 µg/l	< 0,5 µg/l	✓
Uranium	0,559 µg/l	< 3 µg/l	✓
Beryllium	0,020 µg/l	< 0,2 µg/l	✓
Arsenic	2,502 µg/l	< 3 µg/l	✓
Lanthanum	0,955 µg/l	< 3 µg/l	✓
Thallium	n.n.	< 0,5 µg/l	✓
Gallium	n.n.	< 2 µg/l	✓
Tellurium	0,220 µg/l	< 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	n.n.	< 0,1 µg/l	✓
Tungsten	0,345 µg/l	< 2 µg/l	✓

Nutrients

Parameter	Measured Value	Ideal Value	Rating
Phosphate (photometric)	0,031 mg/l	0,03–0,1 mg/l	✓
Nitrate	8,12 mg/l	2–15 mg/l	✓
Nitrite	0,093 mg/l	< 0,3 mg/l	✓
Silicon	13409 µg/l	50–250 µg/l	↑

Osmose

Parameter	Measured Value	Ideal Value	Rating
Copper	n.n.	n.n. µg/l	✓
Zinc	n.n.	n.n. µg/l	✓
Silicon	35 µg/l	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

