

Analysis Report

Date of Analysis: 21.03.2023
Analysis No: OCR220308
Date of Sampling: 13.03.2023 – 18:25

Customer: Patrick Ray
Customer ID: 5210
Tank: reef tank

Main Parameters

Parameter	Measured Value	Ideal Value	Rating
Salinity	34,6 psu	35,0 psu	✓
Alkalinity (KH)	7,94 dKH	7,50 dKH	✓

Main Elements

Parameter	Measured Value	Ideal Value	Rating
Calcium	478 mg/l	435 mg/l	✓
Boron	6,6 mg/l	4,4 mg/l	⬆
Bromide	79 mg/l	66,2 mg/l	✓
Chloride	19184 mg/l	19178 mg/l	✓
Potassium	443 mg/l	395 mg/l	✓
Magnesium	1470 mg/l	1384 mg/l	✓
Sodium	10419 mg/l	10677 mg/l	✓
Strontium	9,8 mg/l	7,9 mg/l	✓
Sulfate	2489 mg/l	2669 mg/l	✓

Trace Elements

Parameter	Measured Value	Ideal Value	Rating
Barium	41,8 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	1,46 mg/l	1,3 mg/l	✓
Iodine	47 µg/l	50–70 µg/l	✓
Copper	n.n.	1–3 µg/l	✓
Lithium	232 µg/l	50–150 µg/l	✓
Manganese	0,2 µg/l	1,0 µg/l	✓
Molybdenum	17,5 µg/l	10–15 µg/l	✓

Nickel	n.n.	1,0 µg/l	✓
Rubidium	332 µg/l	90–150 µg/l	↗
Selenium	n.n.	0,5 µg/l	✓
Vanadium	6,0 µg/l	2–3 µg/l	↗
Zinc	2,3 µg/l	1,0 µg/l	✓
Tin	n.n.	n.n. µg/l	✓

Pollutants

Parameter	Measured Value	Ideal Value	Rating
Aluminium	122,0 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)	0,013 mg/l	0,03–0,1 mg/l	↘
Total Phosphorous (ICP)	26 µg/l	10–50 µg/l	✓
Nitrate	7,20 mg/l	2–15 mg/l	✓
Nitrite	0,085 mg/l	< 0,3 mg/l	✓
Silicon	67 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	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

