



Analysis Report

Date of Analysis: 04.01.2024
Analysis No: MSR221789
Date of Sampling: 18.12.2023 – 13:00

Customer: Scott Rosenblum
Customer ID: 5310
Tank: reef tank

Main Parameters

| Parameter | Measured Value | Ideal Value | Rating |
|-----------------|----------------|-------------|--------|
| Salinity | 35,5 psu | 35,0 psu | ✓ |
| Alkalinity (KH) | 7,73 dKH | 7,50 dKH | ✓ |

Main Elements

| Parameter | Measured Value | Ideal Value | Rating |
|-----------|----------------|-------------|--------|
| Calcium | 484 mg/l | 446 mg/l | ✓ |
| Boron | 5,0 mg/l | 4,6 mg/l | ✓ |
| Bromide | 69 mg/l | 68,0 mg/l | ✓ |
| Chloride | 20131 mg/l | 19677 mg/l | ✓ |
| Potassium | 444 mg/l | 406 mg/l | ✓ |
| Magnesium | 1487 mg/l | 1319 mg/l | ✓ |
| Sodium | 11270 mg/l | 10954 mg/l | ✓ |
| Strontium | 8,7 mg/l | 8,1 mg/l | ✓ |
| Sulfate | 3030 mg/l | 2739 mg/l | ✓ |

Trace Elements

| Parameter | Measured Value | Ideal Value | Rating |
|------------|----------------|---------------|--------|
| Barium | 8,27 µg/l | 10–100 µg/l | ✓ |
| Chromium | 0,19 µg/l | 0,2–0,5 µg/l | ✓ |
| Cobalt | 0,16 µg/l | 0,05–0,2 µg/l | ✓ |
| Iron | 8,04 µg/l | 0,1–3 µg/l | ⬆ |
| Fluoride | 1,46 mg/l | 1,3 mg/l | ✓ |
| Iodine | 47,5 µg/l | 50–70 µg/l | ✓ |
| Copper | 0,31 µg/l | 0,2–2 µg/l | ✓ |
| Lithium | 261 µg/l | 50–150 µg/l | ⬆ |
| Manganese | 0,41 µg/l | 0,2–1 µg/l | ✓ |
| Molybdenum | 9,3 µg/l | 10–15 µg/l | ⬇ |
| Nickel | 0,53 µg/l | 2–5 µg/l | ⬇ |
| Rubidium | 65,8 µg/l | 90–150 µg/l | ✓ |

| | | | |
|----------|------------|--------------|----|
| Selenium | 0,154 µg/l | 0,2–0,5 µg/l | ⬇️ |
| Vanadium | 0,19 µg/l | 2–3 µg/l | ⬇️ |
| Zinc | 0,24 µg/l | 1–3 µg/l | ⬇️ |
| Tin | 0,23 µg/l | 0,05–1 µg/l | ✅ |
| Caesium | 0,67 µg/l | 0,3–3 µg/l | ✅ |

Pollutants

| Parameter | Measured Value | Ideal Value | Rating |
|-----------|----------------|-------------|--------|
| Aluminium | 1,5 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 | 0,169 µg/l | < 3 µg/l | ✅ |
| Titan | n.n. | < 1 µg/l | ✅ |
| Cadmium | 0,015 µg/l | < 0,5 µg/l | ✅ |
| Uranium | 0,124 µg/l | < 3 µg/l | ✅ |
| Beryllium | n.n. | < 0,2 µg/l | ✅ |
| Arsenic | n.n. | < 3 µg/l | ✅ |
| Lanthanum | 0,024 µg/l | < 3 µg/l | ✅ |
| Thallium | n.n. | < 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 | n.n. | < 0,1 µg/l | ✅ |
| Tungsten | n.n. | < 2 µg/l | ✅ |

Nutrients

| Parameter | Measured Value | Ideal Value | Rating |
|-------------------------|----------------|---------------|--------|
| Phosphate (photometric) | 0,163 mg/l | 0,03–0,1 mg/l | ⬆️ |
| Nitrate | 20,79 mg/l | 2–15 mg/l | ⬆️ |
| Nitrite | n.n. | < 0,3 mg/l | ✅ |
| Silicon | 11 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

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

