



User: Zachary Lamb
Analysis ID: 16861

Tank ID: 9741

Date: 30.04.2018

Measurement	Value	Nominal value
Carbonate hardness:	7.71 °dKH	7.5 °dKH

Salinity: 31.55 PSU 35 PSU

Base elements	Value	Ideal value	Difference	Status
Salinity (NaCl)	31.55 PSU	35.00 PSU	-3.45 PSU	🔻
Carbonate hardness	7.71 °dKH	7.50 °dKH	+0.21 °dKH	✅

Major elements	Value	Ideal value	Difference	Status
Chloride	17939 mg/l	17847 mg/l	+91.70 mg/l	✅
Sodium	9864 mg/l	9915 mg/l	-51.18 mg/l	✅
Magnesium	1346 mg/l	1185 mg/l	+160.7 mg/l	✅
Sulfur	932.6 mg/l	829.3 mg/l	+103.3 mg/l	🔻
Calcium	422.4 mg/l	379.5 mg/l	+42.92 mg/l	🔻
Potassium	364.9 mg/l	367.8 mg/l	-2.86 mg/l	✅
Bromine	93.28 mg/l	60.39 mg/l	+32.89 mg/l	⬆️
Strontium	9.34 mg/l	7.21 mg/l	+2.13 mg/l	🔻
Boron	5.77 mg/l	3.97 mg/l	+1.80 mg/l	🔻
Fluorid	0.99 mg/l	1.17 mg/l	-0.18 mg/l	✅

Minor elements	Value	Ideal value	Difference	Status
Lithium	397.2 µg/l	153.2 µg/l	+244.0 µg/l	✅
Silicon	2565 µg/l	90.14 µg/l	+2475 µg/l	⬆️
Iodine	155.6 µg/l	58.59 µg/l	+97.01 µg/l	⬆️
Barium	45.68 µg/l	9.01 µg/l	+36.67 µg/l	🔻



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Molybdenum	5.65 µg/l	10.82 µg/l	-5.17 µg/l	✓
Nickel	n.u	0.45 µg/l		✓
Manganese	n.u	0.45 µg/l		✓
Arsenic	n.u	1.35 µg/l		✓
Beryllium	n.u	0.09 µg/l		✓
Chrome	n.u	0.45 µg/l		✓
Cobalt	n.u	0.09 µg/l		✓
Iron	1.16 µg/l	0.45 µg/l	+0.71 µg/l	✓
Copper	n.u	0.45 µg/l		✓
Selenium	n.u	0.45 µg/l		✓
Silver	n.u	0.09 µg/l		✓
Vanadium	1.31 µg/l	1.35 µg/l	-0.04 µg/l	✓
Zinc	2.13 µg/l	1.80 µg/l	+0.33 µg/l	✓
Tin	13.55 µg/l	0.45 µg/l	+13.10 µg/l	✗
Nutrients	Value	Ideal value	Difference	Status
Nitrate	11.28 mg/l	2.00 mg/l	+9.28 mg/l	✗
Phosphorus	2.14 µg/l	7.21 µg/l	-5.07 µg/l	↓
Phosphate	0.01 mg/l	0.02 mg/l	-0.01 mg/l	✗
Pollutants	Value	Ideal value	Difference	Status
Aluminium	14.55 µg/l	0.09 µg/l	+14.46 µg/l	✓
Antimony	n.u	0.09 µg/l		✓
Bismuth	n.u	0.09 µg/l		✓



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Lead	n.u	0.09 µg/l	✓
Cadmium	n.u	0.18 µg/l	✓
Lanthanum	n.u	n.u µg/l	✓
Thallium	n.u	0.09 µg/l	✓
Titanium	n.u	0.09 µg/l	✓
Tungsten	n.u	n.u µg/l	✓
Mercury	n.u	n.u µg/l	✓



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Recommendations:

Supplement	Priority	Action	Daily dosis	Unit	Days

Additional action: We recommend a salinity of 32 - 37 PSU

Additional action: change 3 x 20 % of water (weekly cycle)

Additional action: use carbon (50 g/ 100 l))

ATI RECOMMENDES Tin is elevated, find source (corroding metals/magnets, RO water, salt). Adjust iodine dosage. PO4 is limited. RO result follow later.