User: Dean Marshall
Analysis ID: 37629

Tank ID: 18826

Date: 12.03.2019

Measurement	Value	Nominal value
Carbonate hardness:	7.18 °dKH	7.5 °dKH
Salinity:	33.02 PSU	35 PSU

Base elements	Value	Ideal value	Difference	Status
Salinity (NaCl)	33.02 PSU	35.00 PSU	-1.98 PSU	✓
Carbonate hardness	7.18 °dKH	7.50 °dKH	-0.32 °dKH	✓

Major elements	Value	Ideal value	Difference	Status
Chloride	18758 mg/l	18681 mg/l	+77.30 mg/l	✓
Sodium	10335 mg/l	10378 mg/l	-43.20 mg/l	✓
Magnesium	1219 mg/l	1241 mg/l	-21.66 mg/l	✓
Sulfur	887.0 mg/l	868.0 mg/l	+19.01 mg/l	✓
Calcium	400.6 mg/l	397.2 mg/l	+3.40 mg/l	✓
Potassium	376.5 mg/l	384.9 mg/l	-8.43 mg/l	✓
Bromine	65.28 mg/l	63.21 mg/l	+2.07 mg/l	✓
Strontium	7.54 mg/l	7.55 mg/l	-0.01 mg/l	✓
Boron	4.01 mg/l	4.15 mg/l	-0.14 mg/l	✓
Fluorine	1.06 mg/l	1.23 mg/l	-0.17 mg/l	✓

Minor elements	Value	Ideal value	Difference	Status
Lithium	166.4 µg/l	160.4 µg/l	+6.01 µg/l	✓
Silicon	n.u	94.35 µg/l		↓
Iodine	27.96 µg/l	61.33 µg/l	-33.37 µg/l	↓
Barium	3.10 µg/l	9.43 µg/l	-6.33 µg/l	↘

Molybdenum	6.69 µg/l	11.32 µg/l	-4.63 µg/l	✓
Nickel	4.19 µg/l	0.47 µg/l	+3.72 µg/l	↗
Manganese	n.u	0.94 µg/l		↘
Arsenic	n.u	1.42 µg/l		✓
Beryllium	n.u	0.09 µg/l		✓
Chrome	n.u	0.47 µg/l		✓
Cobalt	2.37 µg/l	0.09 µg/l	+2.28 µg/l	↗
Iron	n.u	0.47 µg/l		✓
Copper	17.13 µg/l	0.47 µg/l	+16.66 µg/l	↑
Selenium	n.u	0.47 µg/l		✓
Silver	n.u	0.09 µg/l		✓
Vanadium	0.81 µg/l	1.42 µg/l	-0.61 µg/l	✓
Zinc	33.45 µg/l	1.89 µg/l	+31.56 µg/l	↗
Tin	n.u	0.47 µg/l		✓

Nutrients	Value	Ideal value	Difference	Status
Nitrate	0.01 mg/l	2.00 mg/l	-1.99 mg/l	↘
Phosphorus	8.17 µg/l	14.15 µg/l	-5.98 µg/l	↘
Phosphate	0.02 mg/l	0.04 mg/l	-0.02 mg/l	↘

Pollutants	Value	Ideal value	Difference	Status
Aluminium	1.25 µg/l	0.09 µg/l	+1.16 µg/l	✓
Antimony	n.u	0.09 µg/l		✓
Bismuth	n.u	0.09 µg/l		✓

Lead	n.u	0.09 µg/l	✔
Cadmium	n.u	0.19 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
Mangan	Recommended	Dosage	2,30	ml	1
Iod	Important	Dosage	0,80	ml	2
Barium	Recommended	Dosage	15,20	ml	2

Additional action: change 3 x 20 % of water with natural seawater or "Absolute Ocean" (weekly cycle)

ATI RECOMMENDES **Some tTrace metals are elevated, find source (corroding metals/magnets, RO water, salt). Some trece metals a low. Nutriens are might be elevated. RO result follow later.**