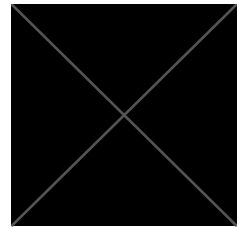


Tank
DT
Net size
208 liter
Reason for analysis
Routine



Created
07/24/2024

Arrived in the laboratory
08/01/2024

Evaluated
08/01/2024



Quality assessment:
The quality of your aquarium water is assessed using the score in the circle. The closer it is to 100, the better the quality. You can also use the bar chart to identify the areas in which problems may occur.

Major elements	80 / 100
Minor elements	90 / 100
Pollutants	98 / 100
Base elements	92 / 100

Results of Salt water

Base elements

Sal. total	32.93 PSU	BELOW NORMAL
Salinity	Ideal value: 35.00 PSU	Attention
KH	7.04 °dKH	NORMAL
Carbonate hardness	Ideal value: 7.50 °dKH	Near nature

Major elements

Cl	18744 mg/l	NORMAL
Chloride	Ideal value: 18320 mg/l	Near nature
Na	9942 mg/l	NORMAL
Sodium	Ideal value: 10178 mg/l	Near nature
Mg	1310 mg/l	NORMAL
Magnesium	Ideal value: 1217 mg/l	Near nature
S	882.2 mg/l	NORMAL
Sulfur	Ideal value: 842.0 mg/l	Near nature
Ca	437.9 mg/l	ABOVE NORMAL
Calcium	Ideal value: 389.5 mg/l	Attention
K	349.5 mg/l	BELOW NORMAL
Potassium	Ideal value: 377.5 mg/l	Attention
Br	87.76 mg/l	ABOVE NORMAL
Bromine	Ideal value: 61.99 mg/l	Attention
Sr	10.50 mg/l	CRITICALLY HIGH
Strontium	Ideal value: 7.49 mg/l	Critical
B	5.30 mg/l	ABOVE NORMAL
Boron	Ideal value: 4.16 mg/l	Attention
F	0.98 mg/l	NORMAL
Fluorine	Ideal value: 1.20 mg/l	Near nature

Minor elements

Li Lithium	429.3 µg/l Ideal value: 157.3 µg/l	NORMAL Near nature
Si Silicon	64.15 µg/l Ideal value: 92.52 µg/l	NORMAL Near nature
I Iodine	48.69 µg/l Ideal value: 60.14 µg/l	NORMAL Near nature
Ba Barium	23.68 µg/l Ideal value: 9.25 µg/l	NORMAL Near nature
Mo Molybdenum	5.27 µg/l Ideal value: 11.10 µg/l	BELOW NORMAL Attention
Ni Nickel	2.56 µg/l Ideal value: 0.46 µg/l	NORMAL Near nature
Mn Manganese	--- Ideal value: 0.93 µg/l	BELOW NORMAL Attention
As Arsenic	--- Ideal value: 0.46 µg/l	NORMAL Near nature
Be Beryllium	--- Ideal value: 0.09 µg/l	NORMAL Near nature
Cr Chrome	--- Ideal value: 0.46 µg/l	NORMAL Near nature
Co Cobalt	--- Ideal value: 0.09 µg/l	NORMAL Near nature
Fe Iron	--- Ideal value: 0.46 µg/l	BELOW NORMAL Attention
Cu Copper	--- Ideal value: 0.46 µg/l	NORMAL Near nature
Se Selenium	--- Ideal value: 0.46 µg/l	NORMAL Near nature
Ag Silver	--- Ideal value: 0.09 µg/l	NORMAL Near nature
V Vanadium	0.97 µg/l Ideal value: 1.39 µg/l	NORMAL Near nature
Zn Zinc	12.27 µg/l Ideal value: 1.85 µg/l	CRITICALLY HIGH Critical
Sn Tin	2.23 µg/l Ideal value: 0.46 µg/l	NORMAL Near nature

Nutrients

NO3 Nitrate	0.00 mg/l Ideal value: 2.00 mg/l	BELOW NORMAL Attention
P Phosphorus	13.15 µg/l Ideal value: 13.88 µg/l	NORMAL Near nature
PO4 Phosphate	0.04 mg/l Ideal value: 0.04 mg/l	NORMAL Near nature

Pollutants

Al.	54.26 µg/l	ABOVE NORMAL
Aluminium	Ideal value: 0.09 µg/l	Attention
Sb	---	NORMAL
Antimony	Ideal value: 0.09 µg/l	Near nature
Bi	---	NORMAL
Bismuth	Ideal value: 0.09 µg/l	Near nature
Pb	---	NORMAL
Lead	Ideal value: 0.09 µg/l	Near nature
Cd	---	NORMAL
Cadmium	Ideal value: 0.19 µg/l	Near nature
La.	---	NORMAL
Lanthanum	Ideal value: 0.00 µg/l	Near nature
Tl	---	NORMAL
Thallium	Ideal value: 0.09 µg/l	Near nature
Ti	---	NORMAL
Titanium	Ideal value: 0.09 µg/l	Near nature
W	---	NORMAL
Tungsten	Ideal value: 0.00 µg/l	Near nature
Hg	---	NORMAL
Mercury	Ideal value: 0.00 µg/l	Near nature

Results of Osmosis water

Minor elements

Li Lithium	---	---	NORMAL Near nature
Si Silicon	13279 µg/l	Ideal value: 0.00 µg/l	CRITICALLY HIGH Critical
Ba Barium	---	Ideal value: 0.00 µg/l	NORMAL Near nature
Mo Molybdenum	---	Ideal value: 0.00 µg/l	NORMAL Near nature
Ni Nickel	---	Ideal value: 0.00 µg/l	NORMAL Near nature
Mn Manganese	---	Ideal value: 0.00 µg/l	NORMAL Near nature
As Arsenic	---	Ideal value: 0.00 µg/l	NORMAL Near nature
Be Beryllium	---	Ideal value: 0.00 µg/l	NORMAL Near nature
Cr Chrome	---	Ideal value: 0.00 µg/l	NORMAL Near nature
Co Cobalt	---	Ideal value: 0.00 µg/l	NORMAL Near nature
Fe Iron	---	Ideal value: 0.00 µg/l	NORMAL Near nature
Cu Copper	17.80 µg/l	Ideal value: 0.00 µg/l	CRITICALLY HIGH Critical
Se Selenium	---	Ideal value: 0.00 µg/l	NORMAL Near nature
Ag Silver	---	Ideal value: 0.00 µg/l	NORMAL Near nature
V Vanadium	---	Ideal value: 0.00 µg/l	NORMAL Near nature
Zn Zinc	---	Ideal value: 0.00 µg/l	NORMAL Near nature
Sn Tin	---	Ideal value: 0.00 µg/l	NORMAL Near nature

Nutrients

P Phosphorus	---	Ideal value: 0.00 µg/l	NORMAL Near nature
PO4 Phosphate	---	Ideal value: 0.00 mg/l	NORMAL Near nature

Pollutants

Al.	---	NORMAL
Aluminium	Ideal value: 0.00 µg/l	Near nature
Sb	---	NORMAL
Antimony	Ideal value: 0.00 µg/l	Near nature
Bi	---	NORMAL
Bismuth	Ideal value: 0.00 µg/l	Near nature
Pb	---	NORMAL
Lead	Ideal value: 0.00 µg/l	Near nature
Cd	---	NORMAL
Cadmium	Ideal value: 0.00 µg/l	Near nature
La.	---	NORMAL
Lanthanum	Ideal value: 0.00 µg/l	Near nature
Tl	---	NORMAL
Thallium	Ideal value: 0.00 µg/l	Near nature
Ti	---	NORMAL
Titanium	Ideal value: 0.00 µg/l	Near nature
W	---	NORMAL
Tungsten	Ideal value: 0.00 µg/l	Near nature
Hg	---	NORMAL
Mercury	Ideal value: 0.00 µg/l	Near nature

Recommendations

The following recommendations were calculated for the aquarium **DT** with **208 liters** content.

Recommended actions

Strontium

Important

Stop adding strontium to reduce value to 7.8-8.2 mg/l. Can be accelerated by several water changes with Absolute Ocean.

Zinc

Important

Zinc is elevated. Find and eliminate the source (e.g. corroding metals, contaminated water treatment, osmosis water, etc.). Carry out several large water changes with Absolute Ocean to reduce the value.

Bromine

Recommended

Reduce/stop addition of bromide to bring value down to 65-67 mg/l.

Boron

Recommended

Reduce/stop addition of boron to bring value down to 4,3-4,7 mg/l.

Calcium

Recommended

Reduce/stop addition of calcium to bring value down to 410-440 mg/l.

Nitrate

Recommended

Dose 1.04 ml Nutrition N per day. Reduce the dose if the nitrate value exceeds 2 mg/l.

Salinity

Recommended

Increase the salinity to 35 PSU.

For example, add 736 ml Absolute Ocean #1 and 736 ml Absolute Ocean #2 to the aquarium.

Silicon

Osmosis

Maintain osmosis system / replace mixed bed resin.

Recommended supplement dosage

Potassium (K)

Recommended

Addition Total: 58.16 ml
Divide the addition into portions: three times 19.39 ml *

Molybdenum (Mo)

Recommended

Addition Total: 6.07 ml
Divide the addition into portions: twice 3.03 ml *

Manganese (Mn)

Recommended

Addition Total: 0.96 ml
Divide the addition into portions: once 0.96 ml

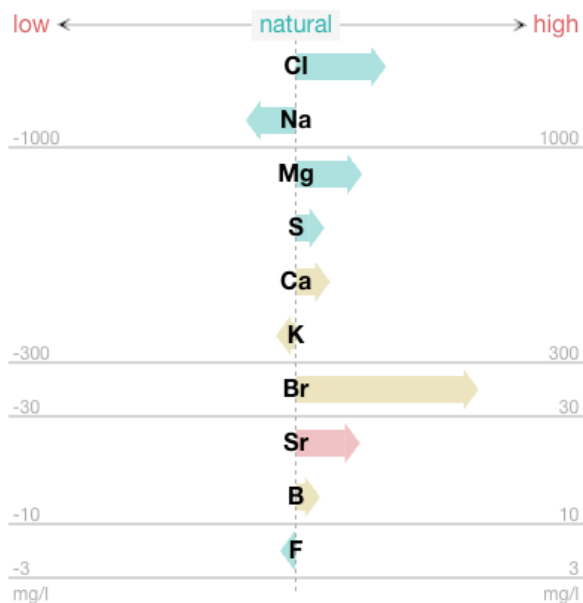
Iron (Fe)

Recommended

Addition Total: 0.48 ml
Divide the addition into portions: five times 0.1 ml *

* Only one portion should be dosed per day.

Diagrams



Composition of the aquarium water

The diagram shows whether the concentrations of the major elements in your water sample match the measured salinity or whether individual elements are increased or reduced. Note the different concentration ranges on the x-axis.

Background: Natural seawater consists of the same elements in fixed proportions. Only the concentrations of the elements increase or decrease in proportion to salinity. That is why the ideal values also change with salinity.

Green arrow

Value is relatively natural.

Yellow arrow

Value is becoming increasingly unnatural.

Red arrow

Value unnatural.



Element ratios

This chart shows whether the element supply is appropriate or whether the ratios of certain element pairs are skewed due to an imbalanced supply. The arrow points in the direction of the element with increased concentration. Only the relationship between the elements is evaluated. The evaluation of the individual measured values may vary.

Background: The reef inhabitants remove various elements from the aquarium water. To compensate for this consumption and obtain water that is true to nature, water changes are carried out and water additives are used. This does not always work as needed.

Green Arrow

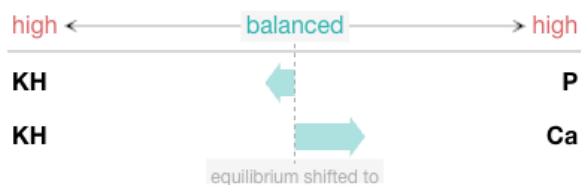
Relationship close to nature.

Yellow arrow

Ratio slightly shifted.

Red arrow

Ratio shifted drastically.



Growth Factors

This diagram shows whether important growth factors are in balance or out of proportion. The arrow points in the direction of the factor with increased concentration. Only the relationship between the factors is evaluated. The evaluation of the individual measured values may vary.

Background: The most important growth factors include carbonate hardness, calcium concentration and phosphorus content. When these values are slightly increased, growth is usually encouraged, while greatly increased or reduced values slow growth. If there is an imbalance between these factors, it can adversely affect coral growth and, in the worst case, lead to tissue necrosis.

Green arrow

Balance between factors OK.

Yellow arrow

Factors increasingly disproportionate to one another.

Red arrow

Factors in disproportion to one another.