Tank
92 Corner

Net size
37854 liter

Reason for analysis
Routine

Barcode
JS64-Q7GK-AEWA-BHCX (ID: 268595)

Created	Arrived in the laboratory	Evaluated
02/25/2024	03/15/2024	03/16/2024

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	70 / 100
Minor elements	96 / 100
Pollutants	100 / 100
Base elements	50 / 100

Results of Salt water

Base elements

Sal. total Salinity	32.64 PSU Ideal value: 35.00 PSU	DECREASED Attention
KH Carbonate hardness	5.42 °dKH Ideal value: 7.50 °dKH	TOO LITTLE Critical

Major elements

Cl Chloride	17704 mg/l Ideal value: 17911 mg/l	TOP Near nature
Na Sodium	10066 mg/l Ideal value: 9951 mg/l	TOP Near nature
Mg Magnesium	1348 mg/l Ideal value: 1190 mg/l	INCREASED Attention
S Sulfur	1081 mg/l Ideal value: 823.2 mg/l	TOO HIGH Critical
Ca Calcium	424.4 mg/l Ideal value: 380.8 mg/l	INCREASED Attention
K Potassium	357.6 mg/l Ideal value: 369.1 mg/l	TOP Near nature
Br Bromine	89.07 mg/l Ideal value: 60.61 mg/l	INCREASED Attention
Sr Strontium	10.16 mg/l Ideal value: 7.24 mg/l	TOO HIGH Critical
B Boron	5.32 mg/l Ideal value: 4.07 mg/l	INCREASED Attention
F Fluorine	1.24 mg/l Ideal value: 1.18 mg/l	TOP Near nature

Minor elements

Li Lithium	435.4 µg/l Ideal value: 153.8 µg/l	TOP Near nature
Si Silicon	49.02 µg/l Ideal value: 90.46 µg/l	TOP Near nature
I Iodine	78.62 µg/l Ideal value: 58.80 µg/l	TOP Near nature
Ba Barium	31.55 µg/l Ideal value: 9.05 µg/l	TOP Near nature
Mo Molybdenum	3.99 µg/l Ideal value: 10.86 µg/l	DECREASED Attention
Ni Nickel	2.02 µg/l Ideal value: 0.45 µg/l	TOP Near nature
Mn Manganese	--- Ideal value: 0.90 µg/l	DECREASED Attention
As Arsenic	--- Ideal value: 0.45 µg/l	TOP Near nature
Be Beryllium	--- Ideal value: 0.09 µg/l	TOP Near nature
Cr Chrome	--- Ideal value: 0.45 µg/l	TOP Near nature
Co Cobalt	0.47 µg/l Ideal value: 0.09 µg/l	TOP Near nature
Fe Iron	37.31 µg/l Ideal value: 0.45 µg/l	INCREASED Attention
Cu Copper	--- Ideal value: 0.45 µg/l	TOP Near nature
Se Selenium	--- Ideal value: 0.45 µg/l	TOP Near nature
Ag Silver	--- Ideal value: 0.09 µg/l	TOP Near nature
V Vanadium	0.73 µg/l Ideal value: 1.36 µg/l	TOP Near nature
Zn Zinc	3.36 µg/l Ideal value: 1.81 µg/l	TOP Near nature
Sn Tin	3.34 µg/l Ideal value: 0.45 µg/l	TOP Near nature

Nutrients

NO3 Nitrate	12.76 mg/l Ideal value: 2.00 mg/l	INCREASED Attention
P Phosphorus	32.86 µg/l Ideal value: 13.57 µg/l	INCREASED Attention
PO4 Phosphate	0.10 mg/l Ideal value: 0.04 mg/l	INCREASED Attention

Pollutants

Al. Aluminium	0.81 µg/l Ideal value: 0.09 µg/l	TOP Near nature
Sb Antimony	--- Ideal value: 0.09 µg/l	TOP Near nature
Bi Bismuth	--- Ideal value: 0.09 µg/l	TOP Near nature
Pb Lead	--- Ideal value: 0.09 µg/l	TOP Near nature
Cd Cadmium	--- Ideal value: 0.18 µg/l	TOP Near nature
La. Lanthanum	--- Ideal value: 0.00 µg/l	TOP Near nature
Tl Thallium	--- Ideal value: 0.09 µg/l	TOP Near nature
Ti Titanium	--- Ideal value: 0.09 µg/l	TOP Near nature
W Tungsten	--- Ideal value: 0.00 µg/l	TOP Near nature
Hg Mercury	--- Ideal value: 0.00 µg/l	TOP Near nature

Results of Osmosis water

Minor elements

Li Lithium	--- Ideal value: 0.00 µg/l	TOP Near nature
Si Silicon	7045 µg/l Ideal value: 0.00 µg/l	TOO HIGH Critical
Ba Barium	6.88 µg/l Ideal value: 0.00 µg/l	TOO HIGH Critical
Mo Molybdenum	--- Ideal value: 0.00 µg/l	TOP Near nature
Ni Nickel	--- Ideal value: 0.00 µg/l	TOP Near nature
Mn Manganese	--- Ideal value: 0.00 µg/l	TOP Near nature
As Arsenic	--- Ideal value: 0.00 µg/l	TOP Near nature
Be Beryllium	--- Ideal value: 0.00 µg/l	TOP Near nature
Cr Chrome	--- Ideal value: 0.00 µg/l	TOP Near nature
Co Cobalt	--- Ideal value: 0.00 µg/l	TOP Near nature
Fe Iron	--- Ideal value: 0.00 µg/l	TOP Near nature
Cu Copper	--- Ideal value: 0.00 µg/l	TOP Near nature
Se Selenium	--- Ideal value: 0.00 µg/l	TOP Near nature
Ag Silver	--- Ideal value: 0.00 µg/l	TOP Near nature
V Vanadium	--- Ideal value: 0.00 µg/l	TOP Near nature
Zn Zinc	--- Ideal value: 0.00 µg/l	TOP Near nature
Sn Tin	--- Ideal value: 0.00 µg/l	TOP Near nature

Nutrients

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

Pollutants

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

Recommendations

The following recommendations were calculated for the aquarium **92 Corner** with **37854 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.

Sulfur — Important

Stop addition of sulfur to reduce value to 900-920 mg/l. Can be accelerated by several water changes with Absolute Ocean.

Carbonate hardness — Important

Increase the KH value to 7 to 8 °dKH.
For this purpose, dose e.g. once 7873.63 ml Essentials+ #1 or 5511.54 ml Essentials pro #1 into your aquarium.

Magnesium — Recommended

Stop adding magnesium to reduce value to 1300-1350 mg/l.

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.

Phosphorus — Recommended

Phosphorus is slightly too high. Improve the filtration and/or reduce the food supply. Check the osmosis water.

Calcium — Recommended

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

Nitrate — Recommended

Nitrate is slightly too high. Improve the filtration and/or reduce the food supply.

Salinity — Recommended

Increase the salinity to 35 PSU.
For example, add 153061 ml Absolute Ocean #1 and 153061 ml Absolute Ocean #2 to the aquarium.

Silicon — Osmosis

Maintain osmosis system / replace mixed bed resin.

Recommended supplement dosage

Molybdenum (Mo) — Recommended

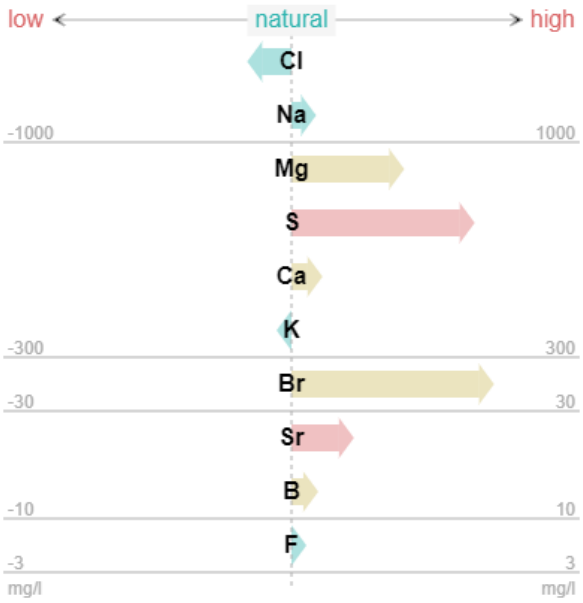
Addition Total:	1299.58 ml
Divide the addition into portions:	twice 649.79 ml *

Manganese (Mn) — Recommended

Addition Total:	171.22 ml
Divide the addition into portions:	once 171.22 ml

* Only one portion should be dosed per day.

Diagrams



Composition of the aquarium water

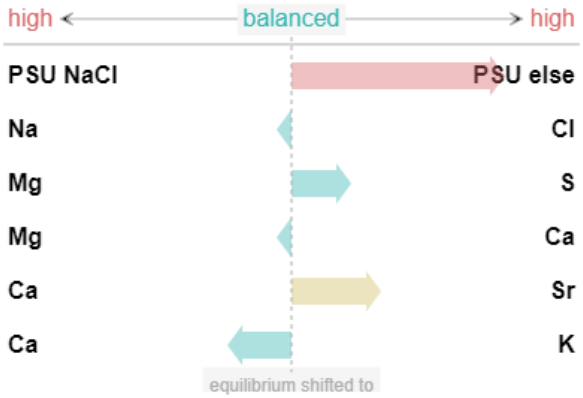
The diagram shows whether the concentrations of the major elements in your water sample match the measured salinity or whether individual elements are increased or reduced. Note the different concentration ranges on the x-axis.

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

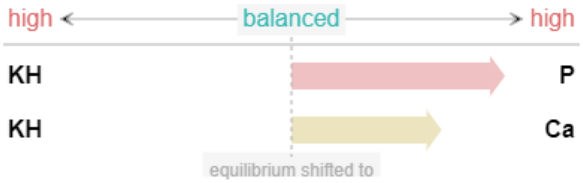
This chart shows whether the element supply is appropriate or whether the ratios of certain element pairs are skewed due to an imbalanced supply. The arrow points in the direction of the element with increased concentration. Only the relationship between the elements is evaluated. The evaluation of the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