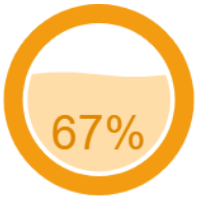
Tank
92 Corner

Net size
37854 liter

Reason for analysis

Barcode
BEUV-PGYF-X9X3-VBGA (ID: 231494)

Created	Arrived in the laboratory	Evaluated
05/19/2023	05/30/2023	05/31/2023



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	88 / 100
Minor elements	96 / 100
Pollutants	100 / 100
Base elements	67 / 100

Results of Salt water

Base elements

Sal. total Salinity	32.84 PSU Ideal value: 35.00 PSU	TOP Near nature
KH Carbonate hardness	4.77 °dKH Ideal value: 7.50 °dKH	TOO LITTLE Critical

Major elements

Cl Chloride	18538 mg/l Ideal value: 18481 mg/l	TOP Near nature
Na Sodium	10235 mg/l Ideal value: 10267 mg/l	TOP Near nature
Mg Magnesium	1314 mg/l Ideal value: 1227 mg/l	TOP Near nature
S Sulfur	894.9 mg/l Ideal value: 858.7 mg/l	TOP Near nature
Ca Calcium	326.7 mg/l Ideal value: 392.9 mg/l	TOO LITTLE Critical
K Potassium	372.3 mg/l Ideal value: 380.8 mg/l	TOP Near nature
Br Bromine	83.50 mg/l Ideal value: 62.54 mg/l	INCREASED Attention
Sr Strontium	7.08 mg/l Ideal value: 7.47 mg/l	TOP Near nature
B Boron	5.49 mg/l Ideal value: 4.11 mg/l	TOP Near nature
F Fluorine	1.43 mg/l Ideal value: 1.21 mg/l	TOP Near nature

Minor elements

Li Lithium	362.9 µg/l Ideal value: 158.7 µg/l	TOP Near nature
Si Silicon	90.43 µg/l Ideal value: 93.34 µg/l	TOP Near nature
I Iodine	49.14 µg/l Ideal value: 60.67 µg/l	TOP Near nature
Ba Barium	16.76 µg/l Ideal value: 9.33 µg/l	TOP Near nature
Mo Molybdenum	4.43 µg/l Ideal value: 11.20 µg/l	DECREASED Attention
Ni Nickel	1.59 µg/l Ideal value: 0.47 µg/l	TOP Near nature
Mn Manganese	--- Ideal value: 0.93 µg/l	DECREASED Attention
As Arsenic	--- Ideal value: 1.40 µg/l	TOP Near nature
Be Beryllium	--- Ideal value: 0.09 µg/l	TOP Near nature
Cr Chrome	--- Ideal value: 0.47 µg/l	TOP Near nature
Co Cobalt	--- Ideal value: 0.09 µg/l	TOP Near nature
Fe Iron	--- Ideal value: 0.47 µg/l	TOP Near nature
Cu Copper	--- Ideal value: 0.47 µg/l	TOP Near nature
Se Selenium	--- Ideal value: 0.47 µg/l	TOP Near nature
Ag Silver	--- Ideal value: 0.09 µg/l	TOP Near nature
V Vanadium	--- Ideal value: 1.40 µg/l	DECREASED Attention
Zn Zinc	2.97 µg/l Ideal value: 1.87 µg/l	TOP Near nature
Sn Tin	--- Ideal value: 0.47 µg/l	TOP Near nature

Nutrients

NO3 Nitrate	3.58 mg/l Ideal value: 2.00 mg/l	TOP Near nature
P Phosphorus	135.0 µg/l Ideal value: 14.00 µg/l	TOO HIGH Critical
PO4 Phosphate	0.41 mg/l Ideal value: 0.04 mg/l	TOO HIGH Critical

Pollutants

Al. Aluminium	0.54 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: 0.19 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

Recommendations

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

Recommended actions

Phosphorus — Important

Phosphorus is too high. Improve the filtration and/or reduce the amount of food. Use an iron-based PO4 adsorber (e.g. ATI Phosphate Stop) to reduce the phosphorus value to 13-17 µg/l.

Carbonate hardness — Important

Increase the KH value to 7 to 8 °dKH.
For this purpose, dose e.g. once 10334.14 ml Essentials+ #1 or 7233.9 ml Essentials pro #1 into your aquarium.

Bromine — Recommended

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

Calcium (Ca)

Important

Addition Total: 12535.91 ml
Divide the addition into portions: four times 3133.98 ml *

Molybdenum (Mo)

Recommended

Addition Total: 1281.06 ml
Divide the addition into portions: twice 640.53 ml *

Vanadium (V)

Recommended

Addition Total: 264.99 ml
Divide the addition into portions: twice 132.49 ml *

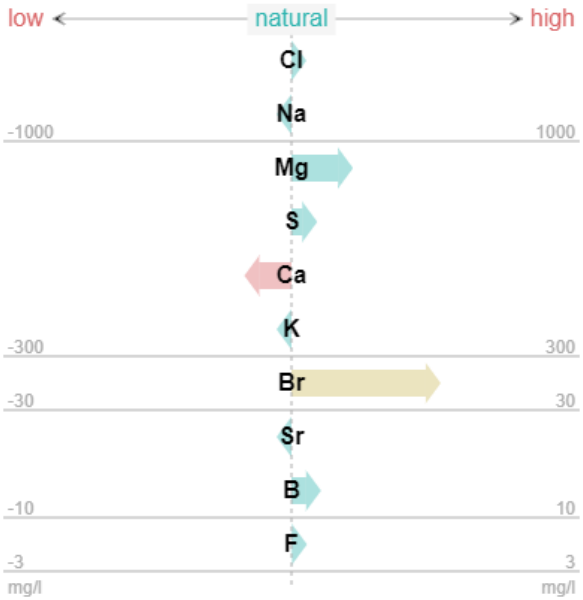
Manganese (Mn)

Recommended

Addition Total: 176.66 ml
Divide the addition into portions: once 176.66 ml

* Only one portion should be dosed per day.

Diagrams



Composition of the aquarium water

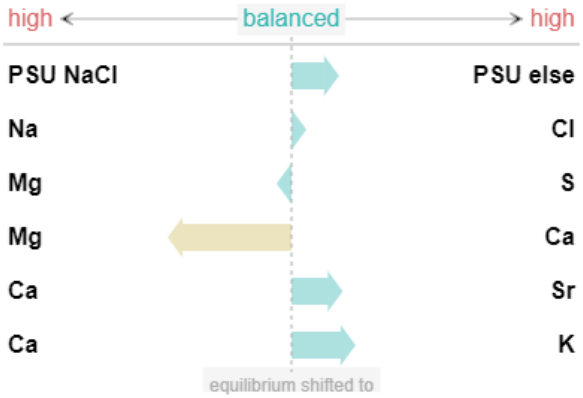
The diagram shows whether the concentrations of the major elements in your water sample match the measured salinity or whether individual elements are increased or reduced. Note the different concentration ranges on the x-axis.

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

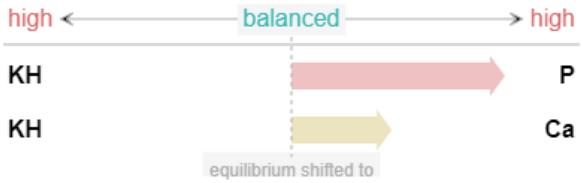
This chart shows whether the element supply is appropriate or whether the ratios of certain element pairs are skewed due to an imbalanced supply. The arrow points in the direction of the element with increased concentration. Only the relationship between the elements is evaluated. The evaluation of the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