


After being analyzed the „Ministry of Water and Irrigation of the United Republic of Tanzania“ classified the water treated by PAULA as follows:

„Therefore, the water is acceptable for human consumption, irrigation, construction and other domestic uses!“

**THE UNITED REPUBLIC OF TANZANIA
MINISTRY OF WATER AND IRRIGATION**

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WATER ANALYSIS REPORT

GENERAL
Analysis Requested by: **DATA VILLAGE TECH**
Region: **MANYARA**
Name of water Source: **DAM**
Date sampled: **December 29, 2016**

District: **SIMANJIRO**
Location: **SUKURO – TREATED WATER**

Table of results:

| Physical | Units | RESULTS | W.H.O Standard |
|-------------------------------------------|-----------|-----------|----------------|
| PH | - | 8.14 | 6.50-8.50 |
| Electric Conductivity (E.C) | µS/cm | 386 | Not mentioned |
| Total dissolved solids (TDS) | mg/L | 193 | 1000 |
| Chemical Parameters | Units | RESULTS | W.H.O Standard |
| Total Alkalinity as CaCO ₃ | mg/L | 175 | Not mentioned |
| Total hardness as CaCO ₃ | mg/L | 58.2 | 500 |
| Hardness due to Calcium Ca | mg/L | 15.1 | 200 |
| Hardness due to Magnesium Mg | mg/L | 4.79 | 100 |
| Chloride (Cl ⁻) | mg/L | 16.6 | 250 |
| Iron (Fe ²⁺) | mg/L | 0.04 | 0.30 |
| Fluoride (F ⁻) | mg/L | 1.61 | 1.50/4.00* |
| Nitrate - N | mg/L | 1.79 | 10.0 |
| Phosphate as P | mg/L | 0.65 | 6.00 |
| Sodium Na | Mg/L | 35.7 | 200 |
| Potassium K | mg/L | 2.52 | 150 |
| Boron | mg/L | <0.01 | 0.10 |
| Sulphate (SO ₄ ²⁻) | mg/L | 4.00 | 400 |
| Bacteriological parameters | cfu/100mL | cfu/100mL | W.H.O Standard |
| E. Coli | | Nil | 0 |
| Faecal Coliforms | | Nil | 0 |

n.m = not mentioned, *Tanzanian standard of quality of domestic water

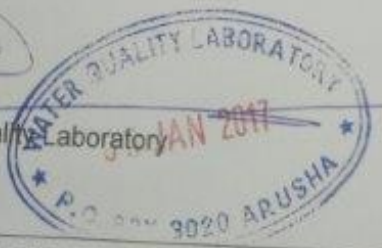
REMARKS:

- According to the analysis done, the water is within the allowable standard of drinking water.

RECOMMENDATION:

- Therefore, the water is acceptable for human consumption, irrigation, construction and other domestic uses.

Kichum, Jovitus
Acting, Head of Water Quality Laboratory
05/01/2017



WATER QUALITY ANALYTICAL REPORT 2017 | ARUSHA WATER QUALITY LABORATORY