

TEST REPORT



ACH/COA/NO.138/23

| <u>CLIENT DETAILS</u> | | | |
|--|-----------------|---|------------|
| Name: | | Anish Shar | |
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| <u>SAMPLE DETAILS</u> | | | |
| Sample Number: | ACH/QC/EW23-138 | Test Request Date: | 25/04/2023 |
| Sample type: | Drinking Water | Analysis Date: | 25/04/2023 |
| Batch Number | N/A | Reporting Date: | 09/05/2023 |
| Use: | Drinking | Received by: | Marwa |
| Manufacturing Date | N/A | Expiry Date | N/A |
| Specification Standard/method reference: | | KS EAS 12:2018 Packaged Drinking water specifications | |

Abbreviations:

KS EAS - Kenyan Standard, East African Standard.

ND – Not Detected

NS – Not Specified

RESULTS OF ANALYSIS**Chemical Test**

| PARAMETER | RESULTS | UNITS | KS SPEC LIMIT | METHOD |
|-------------------------|---------|-------|----------------|--------------|
| pH | 6.06 | - | 6.5 – 8.5 | AC-TM-CHM-01 |
| Electrical Conductivity | 7.55 | µs/cm | - | AC-TM-CHM-02 |
| Color | 0 | Pt-Co | 15 | AC-TM-CHM-13 |
| Total suspended solids | <0.5 | mg/l | Not detectable | AC-TM-CHM-07 |
| Total dissolved solids | 4.76 | mg/l | 1000 max | AC-TM-CHM-03 |
| Chlorides | <0.04 | mg/l | <250 | AC-TM-CHM-08 |
| Turbidity | 0 | mg/l | 1 max | AC-TM-CHM-04 |
| Total Hardness | 2 | mg/l | 300 max | AC-TM-CHM-17 |
| Iron | 0.01 | mg/l | 0.3 max | AC-TM-CHM-10 |
| #Aluminum | 0.06 | mg/l | 0.2 max | KS05-459 |
| Zinc | 1.9742 | mg/l | 5 max | AC-TM-CHM-12 |
| Magnesium | 0.0047 | mg/l | 100 max | AC-TM-CHM-12 |
| Calcium | 0.0069 | mg/l | 150 max | AC-TM-CHM-12 |
| Potassium | <0.001 | mg/l | 50 max | AC-TM-CHM-12 |
| Manganese | 0.1683 | mg/l | 0.1 max | AC-TM-CHM-12 |
| Total Chromium | <0.001 | mg/l | 0.05 max | AC-TM-CHM-12 |
| Sodium | 4.6591 | mg/l | <200 | AC-TM-CHM-12 |
| Copper | <0.001 | mg/l | 2.0 max | AC-TM-CHM-12 |
| Lead | <0.001 | mg/l | 0.01 max | AC-TM-CHM-12 |
| Cadmium | <0.001 | mg/l | 0.003 max | AC-TM-CHM-12 |

NOTE: The above test results are ONLY applicable to the received sample. The data information herein is actual laboratory analysis findings and customer sample details provided. Therefore, the results shall not be reproduced except with the laboratory's consent. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the full extent of the law. Achelab does not give warranty that the analysis report relates to the source or any part of the source of the sample.

* Accredited parameter, #- parameter sub-contracted to a third party laboratory.

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|---------------|--------|------|----------|--------------|
| #Barium | 0.64 | mg/l | 0.7 max | KS05-459 |
| Selenium | <0.001 | mg/l | 0.01 max | AC-TM-CHM-12 |
| Nickel | 0.0914 | mg/l | 0.02 max | AC-TM-CHM-12 |
| #Boron | 0.07 | mg/l | 0.5 max | KS05-459 |
| Ammonia | 0.03 | mg/l | 0.5 max | AC-TM-CHM-11 |
| Fluorides | 0.43 | mg/l | <1.5 | KS05-459 |
| Sulphate | 0 | mg/l | <400 | AC-TM-CHM-09 |
| Free chlorine | 0 | Mg/l | Absent | Palinkit |
| Nitrates | 2.2 | mg/l | 45 max | AC-TM-CHM-06 |
| Nitrite | 0.009 | mg/l | <0.5 | AC-TM-CHM-06 |
| Phosphates | 0 | mg/l | 2.2 max | AC-TM-CHM-45 |

Microbial Test

| PARAMETER | RESULTS | UNITS | KS SPEC LIMIT | METHOD |
|------------------------------|---------------------|-----------|----------------|--------------|
| Total Viable Count @37°C | 7.3X10 ⁴ | Cfu/ml | <50 | AC-TM-MIC-01 |
| Total Viable count @ 22°C | 2.7X10 ² | cfu/ml | <100 | AC-TM-MIC-01 |
| Total coliforms | 109 | cfu/100ml | Not detectable | AC-TM-MIC-03 |
| E. Coli | 53 | cfu/100ml | Not detectable | AC-TM-MIC-03 |
| Pseudomonas aeruginosa | ND | cfu/100ml | Not detectable | AC-TM-MIC-05 |
| Streptococcus faecalis | ND | cfu/100ml | Not detectable | AC-TM-MIC-06 |
| Staphylococcus aureus | 19 | cfu/100ml | Not detectable | AC-TM-MIC-07 |
| #Sulphite Reducing anaerobes | ND | cfu/100ml | Not detectable | ISO 6461-2 |
| Salmonella spp. | ND | Per 100ml | Not detectable | AC-TM-MIC-04 |
| Shigella spp. | ND | Per 100ml | Not detectable | AC-TM-MIC-08 |

-END OF REPORT-

| | |
|--|---|
| Analyzed By: Name : <u>Mogane</u> Sign: <u>[Signature]</u> Date: <u>9/05/23</u> (Technical Signatory) | Approved By: Name: <u>Michael K</u> Sign: <u>[Signature]</u> Date: <u>9/5/2023</u> (Technical Signatory) |
|--|---|

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