

TEST REPORT



ICE FOR AFRICA GAUTENG

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Food and Water Chemistry

PO Number: RU 713801

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Report No: 15607

Date: 2019-06-07

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Final Report

Date received: 2019-05-03

Date commenced: 2019-05-10

Sample Details: CFWC-W-190507-0008 (753452)

Sample Condition: Suitable for testing

Sample Description: Ice for Africa (Gauteng) CC Water Sample for SANS 241

Analytical Results

| Method Used | Test performed | SANS 241:2015 – Drinking Water Partial | Results |
|------------------|--|--|-------------|
| | Odour, TON | | Inoffensive |
| DPD Comparator | Monochloramine as Cl ₂ , mg/L | ≤3 | <0.1 |
| FWC-5.4-01 R | Colour, Pt-Co mg/l | ≤15 | <10 |
| FWC-5.4-01B | Conductivity at 25°C, mS/m | ≤170 | 18.4 |
| | pH at 25°C | ≥5 to ≤9.7 | 7.3 |
| SANS 2160(B) | Taste, FTN | Inoffensive | Inoffensive |
| SANS 375 : 2005 | Turbidity, NTU | ≤5 | <0.5 |
| SANS 5213 : 2013 | Total Dissolved Solids 180°C, mg/L | ≤1200 | 149 |
| FWC-5.4-01 K | Sulphate as SO ₄ , mg/L | ≤500 | 13 |
| FWC-5.4-01 N | Cyanide (Recoverable) as CN, µg/L | ≤70 | <0.005 |
| FWC-5.4-01-01 U | Free Chlorine as Cl ₂ , mg/L | ≤5 | <0.1 |
| FWC-5.4-01-T | Antimony as Sb, µg/L | ≤20 | <0.10 |
| | Arsenic as As, µg/L | ≤10 | 0.26 |
| | Dissolved Mercury as Hg, µg/L | ≤6 | 0.435 |
| | Selenium as Se, µg/L | ≤10 | 6.6 |
| | Uranium as U, µg/L | ≤15 | <0.30 |
| SANS 11885:2008 | Barium as Ba, mg/L | ≤700 | <0.002 |
| | Boron as B, mg/L | ≤2400 | 0.015 |
| | Iron as Fe, µg/L | ≤300 | 49 |
| | Lead as Pb, µg/L | ≤10 | <4 |

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| | | | |
|--------------------------------|--------------------------------------|------------------|--------------|
| SANS 11885:2008 | Manganese as Mn, µg/L | ≤500 | <4 |
| | Nickel as Ni, µg/L | ≤70 | <5 |
| SANS 11885:2008 & FWC-5.4-01 A | Aluminium as Al, µg/L | ≤300 | <10 |
| | Cadmium as Cd, µg/L | ≤3 | <3 |
| | Total Chromium as Cr, µg/L | ≤50 | <10 |
| | Cobalt as Co, µg/L | ≤500 | <4 |
| | Copper as Cu, µg/L | ≤2000 | <10 |
| SANS 11885:2008 & FWC-5.4-01A | Vanadium as V, µg/L | ≤200 | <3 |
| | Calculated Nitrate as N, mg/L | ≥4.598 to ≤4.90; | 0.18 |
| Colorimetric | TON Hyd as N, mg/L | | 0.24 |
| FWC-5.4-01 A | Sodium as Na, mg/L | ≤200 | 46.71 |
| | Zinc as Zn, mg/L | ≤5 | <0.01 |
| FWC-5.4-01 G | Ammonia as N, mg/L | ≤1.5 | <0.09 |
| FWC-5.4-01 H | Chloride as Cl ₂ , mg/L | ≤300 | 18.01 |
| FWC-5.4-01 I | Fluoride as F, mg/L | ≤1.5 | <0.12 |
| FWC-5.4-01 J | Nitrite as N, mg/L | ≤0.9 | 0.06 |
| FWC-5.4-01 C | Phenolic Compounds, µg/L | ≤10 | 0.68 |
| FWC-5.5-01 E | Trihalomethane, mg/L | Not Specified | 0.023 |
| | Chloroform, mg/L | ≤0.3 | 0.012 |
| | Bromoform, mg/L | ≤0.1 | 0.001 |
| | Dibromochloromethane, mg/L | ≤0.1 | 0.003 |
| | Bromodichloromethane, mg/L | ≤0.06 | 0.007 |
| Subcontracted to external lab | Total Organic Carbon as C, mg/L | | 7.00 |
| SANS 5221 Subcontracted T 0269 | E-coli Bacteria, count/100ml | Not Detected | Not Detected |
| | Heterotropic Plate Count, count/ml | ≤1000 | 0 |
| | Total Coliform Bacteria, count/100ml | ≤10 | 0 |

NOTE: The water sample tested complied to the requirements of SANS 241:2015"Drinking Water".



Sannie Mabe (Acting Manager)



Kgabo Bethuel Mashamaite (Test Officer)