

## Food and Water Chemistry

PO Number:  
 Contract: 1585  
 Our ref: CT-140317-00079  
 Enquiries: Jabulile Morobi  
 Tel: 012 428 6768  
 Report No: 536  
 Date: 2014-07-01  
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## Amended Report

Date received: 2014-03-17

Date commenced: 2014-03-20

### Sample Details: FWC-W-140317-0074 (632381)

Sample Condition: Suitable For Testing  
 Sample Description: Copper Pipe  
 Ck201015539123  
 Copper

### Analytical Results

Method Used	Test performed	SANS 241 - Drinking Water Partial	Results
DPD Comparator	Monochloramine as Cl <sub>2</sub> , mg/L	≤3	
SANS 2160(B)	Taste, FTN	Inoffensive	Inoffensive
SANS 375 : 2005	Turbidity, NTU	≤5	1.4
SANS 5213 : 2013	Total Dissolved Solids 180°C, mg/L	≤1200	54
SANS 7887 : 2005	Colour, Pt-Co mg/l	≤15	<10
SM 2150(B)	Odour, TON	Inoffensive	Inoffensive
T0319-5.4-01B	Conductivity at 25°C, mS/m	≤170	10.3
	pH at 25°C	≥5 to ≤9.7	6.0
Atomic Fluorescence	Antimony as Sb, µg/L	≤20	0.010
	Arsenic as As, µg/L	≤10	<0.0100
	Mercury as Hg, µg/L	≤6	4.090
	Selenium as Se, µg/L	≤10	0.370
Colorimetric	Sulphate as SO <sub>4</sub> , mg/L	≤500	0.38
Continuous Flow Analyser	Cyanide (Recoverable) as CN, µg/L	≤70	<0.005
	Cyanide (Recoverable) as CN, µg/L	≤70	<0.005
DPD Comparator	Free Chlorine as Cl <sub>2</sub> , mg/L	≤5	<0.1
SANS 11885:2008	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

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SANS 11885:2008	Copper as Cu, µg/L	≤2000	<10
	Iron as Fe, µg/L	≤2000	<10
	Lead as Pb, µg/L	≤10	<4
	Manganese as Mn, µg/L	≤500	<4
	Nickel as Ni, µg/L	≤70	<5
	Vanadium as V, µg/L	≤200	<3
Subcontracted Lab T0168	Uranium as U, µg/L	≤15	<1.00
Colorimetric	Ammonia as N, mg/L	≤1.5	<0.09
	Chloride as Cl <sub>2</sub> , mg/L	≤300	25.29
	Fluoride as F, mg/L	≤1.5	<0.12
	Nitrate as N, mg/L	≤11	<0.22
	Nitrite as N, mg/L	≤0.9	<0.01
SANS 11885:2008	Sodium as Na, mg/L	≤200	0.43
	Zinc as Zn, mg/L	≤5	<0.01
Subcontracted Lab T0007	Phenolic Compounds, µg/L	≤10	<10.00
	Trihalomethane, mg/L	Not Specified	<0.010
	Chloroform, mg/L	≤0.3	<0.010
	Bromoform, mg/L	≤0.1	<0.010
	Dibromochloromethane, mg/L	≤0.1	<0.01
	Bromodichloromethane, mg/L	≤0.06	<0.01
TOC Analyser	Total Organic Carbon as C, mg/L	≤10	1.04
	Total Organic Carbon as C, mg/L	≤10	1.04

Note: The copper pipe sample tested complies to the chemical requirements of SANS 241:2011 "Drinking Water".



Jabulile Morobi (Manager)



Sannie Mabe (Senior Test Officer)

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