

Central Water Laboratory

Final Task Report

Report Reference

WL2018-010452

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Report Title WMC

THE ANALYSIS OF WATER SAMPLES

Number of Samples 1

Description of Samples WATER SAMPLE

Date Registered 09-October-2018

Date Reported 08-November-2018

Task Comments:

Please note that TOC, As, Se, Hg & phenol analyses were outsourced to Aquatico Laboratories

Approved By : _____

Cody Makhuba
Snr Advisor Chemistry
011 629 5596

Date : _____

Tests marked "Not SANAS accredited" in this report are not included in the SANAS Schedule of Accreditation for this laboratory.

Opinions and interpretations expressed herein are outside the scope of SANAS accreditation,
PLEASE NOTE: The test results relate only to the specified samples tested as identified in this report.

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Eskom Central Water Laboratory Test Results



Laboratory Number T0055

Sample ID	9191931	WMC-2018-10-9/37	WL2018-010452
Potable Water WATER SAMPLE			
Component	Unit	Value	
Aluminium as Al	mg/l	0.056	
Ammonia as N	mg/l	<0.005	
Arsenic as As	µg/l	<1.000	
Barium as Ba	mg/l	0.031	
Boron as B	mg/l	<0.010	
Cadmium as Cd	mg/l	<0.005	
Chloride as Cl	mg/l	13.24	
Cyanide as CN	mg/l	<0.025	
Colour	Hazen	1	
Conductivity	µS/cm	194	
Cobalt as Co	mg/l	<0.005	
Total Chromium as Cr	mg/l	<0.005	
Copper as Cu	mg/l	<0.005	
Iron as Fe	mg/l	<0.005	
Flouride as F	mg/l	0.06	
Mercury as Hg	µg/l	<1.000	
Antimony as Sb	mg/l	0.016	
Manganese as Mn	mg/l	<0.005	
Sodium as Na	mg/l	11.28	
Nickel as Ni	mg/l	<0.005	
Nitrite as NO ₂	mg/l	<0.020	
Nitrate as N	mg/l	0.07	
Lead as Pb	mg/l	<0.010	
Phenol	mg/l	<0.001	
pH @ 25 °C		7.99	
Antimony as Sb	mg/l	0.016	
Selenium as Se	µg/l	<2.000	
Sulphate as SO ₄	mg/l	18.62	
High Level TOC TEKMAR TORCH	mg/l	3.340	
Turbidity	NTU	0.245	
Zinc as Zn	mg/l	<0.005	

The analyses were performed using the following methods:

Aluminium ICP (mg/l)	ESKOM METHOD NO 412	Accredited
Ammonia as N (mg/l) SPEQ	ESKOM METHOD NO 422	Accredited
Antimony ICP (mg/l)	ESKOM METHOD NO 417	Not Accredited
Arsenic Hydride (µg/l)	ESKOM METHOD NO 424	Not Accredited
Barium ICP (mg/l)	ESKOM METHOD NO 412	Accredited
Boron ICP (mg/l)	ESKOM METHOD NO 412	Accredited

The analyses were performed using the following methods:

Cadmium ICP (mg/l)	ESKOM METHOD NO 412	Accredited
Chloride IC (mg/l)	ESKOM METHOD NO 307	Accredited
Cobalt ICP (mg/l)	ESKOM METHOD NO 412	Accredited
Colour	ESKOM METHOD NO 422	Accredited
Conductivity @ 25 °C (µS/cm)	ESKOM METHOD NO 302A	Accredited
Copper ICP (mg/l)	ESKOM METHOD NO 412	Accredited
Cyanide as CN (mg/l)	ESKOM METHOD NO 422	Accredited
Flouride IC (mg/l)	ESKOM METHOD NO 307	Accredited
Iron ICP (mg/l)	ESKOM METHOD NO 412	Accredited
Lead ICP (mg/l)	ESKOM METHOD NO 412	Accredited
Manganese ICP (mg/l)	ESKOM METHOD NO 412	Accredited
Mercury Hydride (µg/l)	ESKOM METHOD NO 424	Not Accredited
Method 417 Water	ESKOM METHOD NO 417	Accredited
Nickel ICP (mg/l)	ESKOM METHOD NO 412	Accredited
Nitrate as N IC (mg/l)	ESKOM METHOD NO 307	Accredited
Nitrite IC (mg/l)	ESKOM METHOD NO 307	Accredited
pH @ 25 °C	ESKOM METHOD NO 300	Accredited
Phenols (mg/l)	Outsourced	Accredited
Selenium Hydride (µg/l)	ESKOM METHOD NO 424	Not Accredited
Sodium ICP (mg/l)	ESKOM METHOD NO 415	Accredited
Sulphate IC (mg/l)	ESKOM METHOD NO 307	Accredited
TOC TEKMAR TORCH	METHOD ESKOM 414	Accredited
Total Chromium (mg/l)	ESKOM METHOD NO 412	Not Accredited
Turbidity	ESKOM METHOD NO 418	Not Accredited
Zinc ICP (mg/l)	ESKOM METHOD NO 412	Accredited

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5. All water samples are preserved according to procedure P511 unless otherwise stated.
6. Unless otherwise specified all analyses on water samples give the dissolved constituents.

End of the Report