

Central Water Laboratory

Preliminary Task Report

Report Reference

WL2010-9210

Date 2010/09/09
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Attention	Tshidi Mosehle
Client Name	Arnot power station
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Report Title WMC

TEST RESULTS FOR THE ANALYSIS OF WATER
SAMPLES

Number of Samples 1

Description of Samples ACCEPTABLE

Date Registered 04-August-2010

Date Reported

Task Comments:

Approved By : _____

Cody Makhuba

Snr Technician

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	2113819	WMC-2010-08-4/60	WL2010-9210
Potable			
Arnot Potable sample			
Component		Unit	Value
Aluminium as Al		mg/l	0.01
Ammonia as N		mg/l	<0.090
Cadmium as Cd		mg/l	<0.005
Chloride as Cl		mg/l	8.59
Cyanide as CN		mg/l	<0.025
Colour		Hazen	1
Conductivity		µS/cm	164
Conductivity		µS/cm	164
Cobalt as Co		mg/l	<0.005
Copper as Cu		mg/l	0.01
High Level DOC		mg/l	2.62
Iron as Fe		mg/l	<0.005
Flouride as F		mg/l	0.06
Manganese as Mn		mg/l	<0.005
Nickel as Ni		mg/l	<0.005
Nitrite as NO ₂		mg/l	<0.020
Nitrate as N		mg/l	0.15
Odour			Odourless
Lead as Pb		mg/l	<0.007
pH @ 25 °C			8.74
Antimony as Sb		mg/l	0.02
Sulphate as SO ₄		mg/l	8.89
TDS		mg/l	97.8
Turbidity		NTU	0.269
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 8	Not Accredited
Antimony ICP (mg/l)	ESKOM METHOD NO 417	Not Accredited
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 137	Not 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 31	Not Accredited
DOC on Appollo	ESKOM METHOD NO 414	Not Accredited
Flouride IC (mg/l)	ESKOM METHOD NO 307	Not Accredited
Iron ICP (mg/l)	ESKOM METHOD NO 412	Accredited
Lead ICP (mg/l)	ESKOM METHOD NO 412	Accredited

The analyses were performed using the following methods:

Manganese ICP (mg/l)	ESKOM METHOD NO 412	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
Odour		Not Accredited
pH @ 25 °C	ESKOM METHOD NO 300A	Accredited
Sulphate IC (mg/l)	ESKOM METHOD NO 307	Accredited
Total Dissolved Solids @180 °C	ESKOM METHOD NO 424	Not Accredited
Turbidity	ESKOM METHOD NO 418	Not Accredited
Zinc ICP (mg/l)	ESKOM METHOD NO 412	Accredited

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4. With the exception of all microbiological analyses, unless otherwise stated, sampling is not carried out by the laboratory.
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