



# Midvaal Water Company

## Scientific Services

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P.O. Box 31  
2550 STILFONTEIN



### Test Report

**Submitter:** Botha, De Wet & Roodt  
P O Box 33  
2570 KLERKSDORP

**Reference:** 20:1253  
**Date Received:** 7/1/2005  
2005/07/15 (Bacteriological sample received)

**Sample Description:** Borehole  
**Certificate number:** 5/5055~R1  
Amendment to certificate no 5/5055

### Analysis Results

Sample number				5055
Identification on container				Borehole
Determinand	Units	Class II (max. allowable)	Method number	
Electrical conductivity at 25°C	mS/m	>150 - 370	WL 2	10
pH value at 25°C	pH units	4.0 - 10.0	WL 1	7.9
Calcium	mg/l Ca	>150 - 300	ICP 1	9
Chloride	mg/l Cl	>200 - 600	WL 9(WL9A)	1
Fluoride	mg/l F	>1.0 - 1.5	GL 4	0.2
Magnesium	mg/l Mg	>70 - 100	ICP 1	3
Nitrate and nitrite	mg/l N	>10.0 - 20.0	GL 3 (GL5)	<0.5
Potassium	mg/l K	>50 - 100	ICP 1	1
Sodium	mg/l Na	>200 - 400	ICP 1	12
Sulphate	mg/l SO <sub>4</sub>	>400 - 600	WL 10	0.9
Zinc	mg/l Zn	>5.0 - 10.0	ICP 1	<0.01
Cadmium	mg/l Cd	>0.005 - 0.01	ICP 1	0
Copper	mg/l Cu	>1.0 - 2.0	ICP 1	<0.002
Iron	mg/l Fe	>0.20 - 2.0	ICP 1	0.35
Manganese	mg/l Mn	>0.10 - 1.0	ICP 1	0.01
Total Alkalinity	mg/l CaCO <sub>3</sub>		WL8(WL8A)	49
Drinking water specifications: SANS241: 2001		Allowable compliance 95% min.		
Sample number				5318
Heterotrophic plate count	count/ml	100	BL 1	52
Total coliforms	MPN/100 ml	Not detected	BL 5	30
E.coli	MPN/100 ml	Not detected	BL 5	0
Faecal Coliforms	count/100 ml	Not detected	BL 1	0

\*\*Not SANAS accredited

Drinking water specifications: SANS241: 2001

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

"The Measurements of Uncertainty of the reported results are calculated using 95% Confidence Limits and are available on request."

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Signed: \_\_\_\_\_  
Juanita Erasmus (Laboratory Technician)

Date of issue: 7/7/2005  
Date of re-issue: 7/19/2005

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