

WATER QUALITY IN MODIMOLLE

Water Quality Report Reporting period: Jan-Sep 2011															
Parameter	Units	Specifications	Compliance	Donkerpoort	Golf Res	Magalies Res	Airfield Res	Ext 11	Ext 5	Ext 1	Ext 6	CBD	Municipal Workshop	Mabaleng	Mabatlane
<u>Chemical / Physical</u>															
pH at 25°	pH Units	>5.0 to < 9.5	100%	7.12	7.65	8.48	8.01	N/A	N/A	N/A	N/A	N/A	N/A	7.65	8.85
EC	mS/m	>0.0 to < 149.0	100%	5.67	5.48	37.35	15.78	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Color	mg/l Pt	>0.0 to < 19.9	75.5%	14.7	18.6	9.00	18.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TDS	mg/l	>0.0 to < 999.0	100%	44.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	125	101
Taste	mg/l	>0.0 to < 4.0	100%	3.00	3.00	3.00	3.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Odour	%	>0.0 to <4.0	100%	3.00	3.00	3.00	3.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Turbidity	NTU	>0.0 to < 0.999	20.8%	2.77*	2.68	1.96	1.99	1.82	30.2	0.48	2.54	1.7	1.84	0.375	0.5
<u>Microbiological</u>															
HPC	CFU/100ml	>0.0 to <5000	93.5%	1821	62.8	16 813	21.00	N/A	N/A	N/A	N/A	N/A	N/A	15 725	23 220
Total coli	CFU/100ml	>0.0 to <10.0	89.05%	82.2*	13.8	8.63	1.70	0.4	2.00	0.40	0.20	0.20	0.00	34.5	0.0
Faecal coli	CFU/100ml	>0.0 to <1.0	60.0%	0.60*	1.4	0.00	0.0	0.4	1.40	0.20	0.00	0.00	0.00	19	0.0
E-Coli	CFU/100ml	>0.0 to <0.0	30.0%	4.4*	2.40	0.58	1.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<u>Micro Elements</u>															
Aluminum	mg/L	>0.0 to < 299.0	100%	0.3502	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.110	0.193
Iron	mg/L	>0.0 to < 199.9	100%	0.206	0.02	0.02	0.03	N/A	N/A	N/A	N/A	N/A	N/A	0.025	0.054
Manganese	mg/L	>0.0 to < 99.0	100%	0.199	0.01	0.019	0.018	N/A	N/A	N/A	N/A	N/A	N/A	0.025	0.044
Free chlorine	mg/l	>0.0 to < 1.0	66.8%	<0.1	2.2	0.2	0.18	<0.1	<0.1	0.12	0.1	0.12	0.12	<0.1	<0.1

NOTES:

Specification date of effect: July 2006

Guidelines derived from SANS 241-2005 operations alert and industry practices

N/A = point not sampled for that parameter

Modimolle Local Municipality monitors drinking water from source to tap and performs +274 analyses per month on drinking water alone. This report is based on compliance monitoring and does not include operational monitoring. The report includes data from external laboratory results i.e. Waterlab and Magalies Water. On average the Donkerpoort Plant has reported a number of failures both chemically and microbiologically this is evident with a score of 54.9% on the BDS for the month of February 2011-we are currently in progress of resolving this problem permanently, with the refurbishment and upgrade of the plant. The plant supply system is augmented with Magalies water system, a number of challenges and failures occurs on the entire system due to the fact that these two systems have different chemical composition i.e. iron and manganese contents are visibly high on one system.

Reservoir chlorination tablets are used to increase disinfection on the Mabaleng and Mabatlane supply systems and are monitored on site. For any information on water quality related issues contact: Thabang Selemela (083 377 9541).

In addition, to check water quality in your area visits 'MY-WATER' on the DWA website, and the recently launched My Water.mobi on your cell phone.