

Consulting Analytical & Industrial Chemists
Specialists in Water & Waste Water Treatment
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No. 1, Vine Park
Vine Road
7925
P.O. Box 483
WOODSTOCK, CAPE
7915

Certificate of Analysis

WITZENBERG MUNICIPALITY : BID 08/2/12/30&32

Witzenberg Municipality Reticulation Waters

1 : Reservoir, Final, Post-Chlorination ex Ceres

DATE SAMPLED : 2019/05/02

DATE RECEIVED : 2019/05/03

DATE ANALYSIS

COMMENCED : 2019/05/03

OUR REF. : 2019/05/02/12202

REPORT NO. : 2592

	Sample Number	12202	
Mthd ALA No.	Analyses	Results	SANS 241-1:2015
19	pH (at 25 °C)	7.59	≥5 - ≤ 9.7 Operational
9	Conductivity (mS/m) (at 25 °C)	5.0	≤170 Aesthetic
27	Turbidity (NTU)	0.33	≤1 Operational : ≤5 Aesthetic
97	Colour (mg/l as Pt)	7	≤15 Aesthetic
98	Fluoride (mg/l as F)	0.96	≤1.5 Chronic Health
7	Total Dissolved Solids (mg/l)	29	≤1200 Aesthetic
96	Chloride (mg/l as Cl)	6.1	≤300 Aesthetic
99	Nitrite Nitrogen (mg/l as N)	<0.20	≤0.9 Acute Health
95	Ammonia Nitrogen (mg/l as N)	0.12	≤1.5 Aesthetic
100	Nitrate & Nitrite Nitrogen (mg/l as N)	0.23	≤12 Acute Health
92	Manganese (µg/l as Mn)	<19	≤100 Aesthetic ≤400 Chronic Health
92	Copper (µg/l as Cu)	<6	≤2000 Chronic Health
92	Aluminium (µg/l as Al)	<12	≤300 Operational
66	Total Chlorine (mg/l)	0.81	N/A
66	Free Chlorine (mg/l)	0.58	≤5 Chronic Health
85	Total Coliform Bacteria (count per 100 ml)	<1	≤10 Operational
84	E.coli (count per 100 ml)	<1	Not Detected
88	Heterotrophic Plate Count (count per ml)	<1	≤1000 Operational
105	Total Organic Carbon (mg/l as C)	6.1	≤10 Chronic Health
N/A	Combined Trihalomethanes (µg/l)	0.46	≤1.0
92	Iron (µg/l as Fe)	50	≤300 Aesthetic ≤2000 Chronic Health

Sampler : M.Van Rhyn (ALA)

This report relates only to the samples tested and is issued subject to the company's standard terms and conditions of business.

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N/A	Trihalomethane (Bromodichloromethane) (µg/l)	<10.0	≤60 Chronic Health
N/A	Trihalomethane (Bromoform) (µg/l)	<10.0	≤100 Chronic Health
N/A	Trihalomethane (Chloroform) (µg/l)	27.0	≤300 Chronic Health
N/A	Trihalomethane (Dibromochloromethane) (µg/l)	<10.0	≤100 Chronic Health
N/A	Combined Nitrate plus Nitrite (mg/l as N)	0.22	≤1.0
Calc	Nitrate Nitrogen (mg/l as N)	<0.20	≤11 Acute Health

N. VAN BINSBERGEN (Pr.Sci.Nat.)
 DIRECTOR
 16 May 2019

TO: WITZENBERG MUNICIPALITY
 P O Box 44
 CERES
 6835

Att: S. FARMER