

Consulting Analytical & Industrial Chemists  
Specialists in Water & Waste Water Treatment  
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No. 1, Vine Park  
Vine Road  
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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 :** 2019/02/06

**DATE RECEIVED :** 2019/02/07

**DATE ANALYSIS**

**COMMENCED :** 2019/02/07

**OUR REF. :** 2019/02/06/3513

**REPORT NO. :** 722

	Sample Number	3513	
Mthd ALA No.	Analyses	Results	SANS 241-1:2015
19	pH (at 25 °C)	5.31	≥5 - ≤ 9.7 Operational
9	Conductivity (mS/m) (at 25 °C)	5.5	≤170 Aesthetic
27	Turbidity (NTU)	0.38	≤1 Operational : ≤5 Aesthetic
97	Colour (mg/l as Pt)	5	≤15 Aesthetic
98	Fluoride (mg/l as F)	<0.10	≤1.5 Chronic Health
7	Total Dissolved Solids (mg/l)	29	≤1200 Aesthetic
96	Chloride (mg/l as Cl)	6.7	≤300 Aesthetic
99	Nitrite Nitrogen (mg/l as N)	<0.20	≤0.9 Acute Health
95	Ammonia Nitrogen (mg/l as N)	<0.10	≤1.5 Aesthetic
100	Nitrate & Nitrite Nitrogen (mg/l as N)	0.45	≤12 Acute Health
92	Manganese (µg/l as Mn)	<19	≤100 Aesthetic ≤400 Chronic Health
92	Copper (µg/l as Cu)	18	≤2000 Chronic Health
92	Aluminium (µg/l as Al)	51	≤300 Operational
66	Free Chlorine (mg/l)	0.70	≤5 Chronic Health
66	Total Chlorine (mg/l)	1.7	N/A
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)	0.50	≤10 Chronic Health
N/A	Combined Trihalomethanes (µg/l)	0.45	≤1.0
92	Iron (µg/l as Fe)	88	≤300 Aesthetic ≤2000 Chronic Health

**Sampler:** V. Opperman (ALA)

Refer to attached Appendix 1 : Indicating \* Tests marked "SANAS Accredited", Tests Methods and Detection Limits.

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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	Sample Number	3513	
Mthd ALA No.	Analyses	Results	SANS 241-1:2015
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)	24.5	≤300 Chronic Health
N/A	Trihalomethane (Dibromochloromethane) (µg/l)	<10.0	≤100 Chronic Health
N/A	Combined Nitrate plus Nitrite (mg/l as N)	0.24	≤1.0
Calc	Nitrate Nitrogen (mg/l as N)	0.25	≤11 Acute Health

JOSE DA SILVA (Cert.Sci.Nat.)  
 TECHNICAL MANAGER  
 11 February 2019

TO: WITZENBERG MUNICIPALITY  
 P O Box 44  
 CERES  
 6835

Att: S. FARMER

Sampler: V. Opperman (ALA)

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