

Consulting Analytical & Industrial Chemists
Specialists in Water & Waste Water Treatment
Telephone (021)448 6340/1
After Hours (083-3263887)
Telefax (021)448 6342
e-Mail Address :
info@alabbott.co.za



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 : 2019/09/04

REVISED

DATE RECEIVED : 2019/09/05

OUR REF. : 2019/09/04/24841

DATE ANALYSIS

COMMENCED : 2019/09/05

REPORT NO. : 5017

	Sample Number	24841	
Mthd ALA No.	Analyses	Results	SANS 241-1:2015
19	pH (at 25 °C)	5.00	≥5 - ≤ 9.7 Operational
9	Conductivity (mS/m) (at 25 °C)	6.0	≤170 Aesthetic
27	Turbidity (NTU)	0.68	≤1 Operational : ≤5 Aesthetic
97	Colour (mg/l as Pt)	10	≤15 Aesthetic
7	Total Dissolved Solids (mg/l)	36	≤1200 Aesthetic
92	Zinc (mg/l as Zn)	0.005	≤5 Aesthetic
102	Sulphate (mg/l as SO ₄)	<1.0	≤250 Aesthetic ≤500 Acute Health
92	Sodium (mg/l as Na)	2.6	≤200 Aesthetic
94	Total Alkalinity (mg/l as CaCO ₃)	<11.0	N/A
96	Chloride (mg/l as Cl)	9.0	≤300 Aesthetic
95	Ammonia Nitrogen (mg/l as N)	<0.10	≤1.5 Aesthetic
99	Nitrite Nitrogen (mg/l as N)	<0.20	≤0.9 Acute Health
98	Fluoride (mg/l as F)	<0.10	≤1.5 Chronic Health
92	Iron (µg/l as Fe)	61	≤300 Aesthetic ≤2000 Chronic Health
92	Manganese (µg/l as Mn)	<19	≤100 Aesthetic ≤400 Chronic Health
92	Mercury (µg/l as Hg)	<5	≤6 Chronic Health
92	Lead (µg/l as Pb)	<7	≤10 Chronic Health
51	Cyanide (µg/l as CN ⁻)	<20	≤200 Acute Health
92	Aluminium (µg/l as Al)	78	≤300 Operational
92	Antimony (µg/l as Sb)	<10	≤20 Chronic Health
92	Arsenic (µg/l as As)	<3	≤10 Chronic Health

Sampler : L. Coetzer (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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92	Cadmium (µg/l as Cd)	<1	≤3 Chronic Health
92	Copper (µg/l as Cu)	<6	≤2000 Chronic Health
92	Total Chromium (µg/l as Cr)	<7	≤50 Chronic Health
92	Selenium (µg/l as Se)	<10	≤40 Chronic Health
N/A	Total Microcystin (µg/l)	<0.15	≤1
92	Uranium (µg/l as U)	<15	≤30 Chronic Health
66	Free Chlorine (mg/l)	0.85	≤5 Chronic Health
66	Total Chlorine (mg/l)	0.93	N/A
45	Phenols (mg/l)	<0.01	≤0.01 Aesthetic
N/A	Combined Trihalomethanes (µg/l)	0.49	≤1.0
105	Total Organic Carbon (mg/l as C)	0.20	≤10 Chronic Health
92	Nickel (µg/l as Ni)	2	≤70 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
N/A	Protozoan Parasites (Giardia Species) (count per 10 litres)	<1	Not Detected Acute Health
N/A	Protozoan Parasites (Cryptosporidium Species) (count per 10 litres)	<1	Not Detected Acute Health
N/A	Somatic Coliphages (count per 10 ml)	<1	Not Detected Operational
100	Nitrate & Nitrite Nitrogen (mg/l as N)	<0.20	≤12 Acute Health
N/A	Monochloramine (mg/l)	<0.05	≤3 Chronic Health
Calc	Nitrate Nitrogen (mg/l as N)	<0.20	≤11 Acute Health

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N/A	Combined Nitrate plus Nitrite (mg/l as N)	0.22	≤1.0
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)	37.0	≤300 Chronic Health
N/A	Trihalomethane (Dibromochloromethane) (µg/l)	<10.0	≤100 Chronic Health
92	Barium (µg/l as Ba)	5	≤700 Chronic Health
47	Boron (mg/l as B)	<0.10	≤2.4 Chronic Health

N. VAN BINSBERGEN (Pr.Sci.Nat.)
 DIRECTOR
 08 October 2019

TO: WITZENBERG MUNICIPALITY
 P O Box 44
 CERES
 6835

Att: S. FARMER

Sampler : L. Coetzer (ALA)

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