

Consulting Analytical & Industrial Chemists  
Specialists in Water & Waste Water Treatment  
Telephone (021)448 6340/1  
After Hours (0833263887)  
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

## ANALYSIS

**DATE SAMPLED :** 2018/08/14  
**DATE RECEIVED :** 2018/08/14  
**DATE ANALYSIS COMMENCED :** 2018/08/14

**REVISED**

**OUR REF. :** 2018/08/14/21827  
**REPORT NO. :** 5320

	Sample Number	21827	
Mthd ALA No.	Analyses	Results	SANS 241-1:2015
97	Colour (mg/l as Pt)	<4	≤15 Aesthetic
9	Conductivity (mS/m) (at 25 °C)	62.0	≤170 Aesthetic
7	Total Dissolved Solids (mg/l)	425	≤1200 Aesthetic
27	Turbidity (NTU)	0.18	≤1 Operational : ≤5 Aesthetic
19	pH (at 25 °C)	6.15	≥5 - ≤9.7 Operational
66	Free Chlorine (mg/l)	1.9	≤5 Chronic Health
N/A	Monochloramine (mg/l)	<0.05	≤3 Chronic Health
Calc	Nitrate Nitrogen (mg/l as N)	<0.20	≤11 Acute Health
99	Nitrite Nitrogen (mg/l as N)	<0.20	≤0.9 Acute Health
100	Nitrate & Nitrite Nitrogen (mg/l as N)	<0.20	≤12 Acute Health
N/A	Combined Nitrate plus Nitrite (mg/l as N)	0.22	≤1.0
102	Sulphate (mg/l as SO <sub>4</sub> )	40.5	≤250 Aesthetic ≤500 Acute Health
98	Fluoride (mg/l as F)	0.18	≤1.5 Chronic Health
95	Ammonia Nitrogen (mg/l as N)	<0.10	≤1.5 Aesthetic
96	Chloride (mg/l as Cl)	130	≤300 Aesthetic
92	Sodium (mg/l as Na)	69.1	≤200 Aesthetic
92	Zinc (mg/l as Zn)	<0.001	≤5 Aesthetic
92	Antimony (µg/l as Sb)	<10	≤20 Chronic Health
92	Arsenic (µg/l as As)	<3	≤10 Chronic Health
92	Barium (µg/l as Ba)	<1	≤700 Chronic Health
47	Boron (mg/l as B)	<0.10	≤2.4 Chronic Health

**Sampler:** OWEN DAVIES (ALA)

Refer to attached Appendix 1 : Indicating \* Tests marked "SANAS Accredited", Tests Methods and Detection Limits.  
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92	Cadmium (µg/l as Cd)	<1	≤3 Chronic Health
92	Total Chromium (µg/l as Cr)	<7	≤50 Chronic Health
92	Copper (µg/l as Cu)	10	≤2000 Chronic Health
51	Cyanide (µg/l as CN-)	<20	≤200 Acute Health
92	Iron (µg/l as Fe)	71	≤300 Aesthetic ≤2000 Chronic Health
92	Lead (µg/l as Pb)	<7	≤10 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	Nickel (µg/l as Ni)	9	≤70 Chronic Health
92	Selenium (µg/l as Se)	<10	≤40 Chronic Health
92	Uranium (µg/l as U)	<15	≤30 Chronic Health
92	Aluminium (µg/l as Al)	<12	≤300 Operational
105	Total Organic Carbon (mg/l as C)	0.32	≤10 Chronic Health
N/A	Trihalomethane (Chloroform) (µg/l)	<10.0	≤300 Chronic Health
N/A	Trihalomethane (Bromoform) (µg/l)	<10.0	≤100 Chronic Health
N/A	Trihalomethane (Dibromochloromethane) (µg/l)	<10.0	≤100 Chronic Health
N/A	Trihalomethane (Bromodichloromethane) (µg/l)	<10.0	≤60 Chronic Health
N/A	Combined Trihalomethane	0.40	≤1.0
N/A	Total Microcystin (µg/l)	<0.15	≤1
45	Phenols (mg/l)	<0.01	≤0.01 Aesthetic
84	E.coli (count per 100 ml)	<1	Not Detected

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85	Total Coliform Bacteria (count per 100 ml)	<1	≤10 Operational
88	Heterotrophic Plate Count (count per ml)	<1	≤1000 Operational
N/A	Somatic Coliphages (count per 10 ml)	<1	Not Detected 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
92	Calcium (mg/l as Ca)	19.5	N/A
92	Magnesium (mg/l as Mg)	<1.1	N/A
92	Potassium (mg/l as K)	3.9	N/A
94	Total Alkalinity (mg/l as CaCO <sub>3</sub> )	27.8	N/A

N. VAN BINSBERGEN ( Pr.Sci.Nat.)  
 DIRECTOR  
 31 August 2018

Att: Annejan | QFS <engineer4@qualityfilters.co.za>

Nico-Ben Janse van Rensburg QFS  
 <engineer2@qualityfilters.co.za>

Sampler: OWEN DAVIES (ALA)

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# A.L. ABBOTT AND ASSOCIATES (PTY) LTD

(Reg. No. 1982/004379/07)

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