

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

## QUALITY FILTRATION SYSTEM

### ANALYSIS

### WATERFRONT

**DATE SAMPLED :** 2018/08/14

**REVISED**

**DATE RECEIVED :** 2018/08/14

**OUR REF. :** 2018/08/14/21827

**DATE ANALYSIS**

**COMMENCED :** 2018/08/14

**REPORT NO. :** 5320

|                    | Sample Number                             | 21827   |                                  |
|--------------------|---|---------|----------------------------------|
| Mthd<br>ALA<br>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)

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| Mthd<br>ALA<br>No. | Analyses                                     | Results | SANS 241-1:2015                     |
| 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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**OUR REF. :** 2018/08/14/21827  
**REPORT NO. :** 5320

| Mthd ALA No. | Analyses  | Results | SANS 241-1:2015           |
|--------------|---|---------|---------------------------|
|              | Sample Number   | 21827   |                           |
| 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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Doc.No. 5.10/1 Rev.4

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