

**CERTIFICATE OF MICROBIOLOGICAL ANALYSIS  
TEST REPORT**

Sample From: **Nkangala District Municipality** Address: Posbus 437  
**Municipal Health Services** Walter Sisulu  
**Emakhazeni Town Council** Middelburg  
 1050

Date Received: **12-Jul-17**  
 Date Analyzed: **12-Jul-17**  
 Date Reported: **14-Jul-17**  
 Quantity Analyzed: **3** Ref No: **G 514 - 516 / 17 B**

| LAB NO |         | SAMPLE NAME             | STERILIZED BOTTLE |    | STANDARD LIMITS                     |                              |                                  |                                      |              |
|--------|---------|-------------------------|-------------------|----|-------------------------------------|------------------------------|----------------------------------|--------------------------------------|--------------|
|        |         |                         |                   |    | ≤ 10                                | Nil                          | Nil                              | ≤ 1000                               |              |
|        |         |                         |                   |    | TOTAL COLIFORM BACTERIA PER / 100ML | FAECAL COLIFORM PER / 100 ML | ESCHERISCHIA COLIFORM PER 100 ML | HETEROTROPHIC PLATE COUNT PER 1.0 ML |              |
|        | BF      | BELFAST                 | YES               | NO | A / B                               |                              |                                  |                                      |              |
| G 514  | 13/7/17 | HA Grove Hospital       | x                 |    | Nil                                 | B                            | Nil                              | Nil                                  | 1030         |
| G 515  | 14/7/17 | Bottom End Liquor Store | x                 |    | Nil                                 | B                            | Nil                              | Nil                                  | 738          |
| G 516  | 10/7/14 | Siyathuthuka Clinic     | x                 |    | Nil                                 | B                            | Nil                              | Nil                                  | 568          |
|        |         |                         |                   |    | A - SANAS 5221 OR<br>B - COLILERT   |                              | SANS<br>5221                     | COLILERT                             | SANS<br>5221 |

**S.A.N.S. 241-1:2015 Ed 2 MICROBIOLOGICAL REQUIREMENTS  
Allowable compliance for DRINKING WATER**

| Determinant  | Risk             | Unit             | Standard limits |
|--|------------------|------------------|-----------------|
| Escherichia Coliform / or Faecal Coliform bacteria | Acute Health - 1 | Count per 100 ml | Not Detected    |
| Heterotrophic Plate Count                          | Operational      | Count per 1 ml   | ≤ 1 000         |
| Total Coliform Bacteria                            | Operational      | Count per 100 ml | ≤ 10            |

Results exceeding alert levels will require immediate remedial action and follow-up sampling.

**EFFLUENT WATER**

Regional Standard (Department Water Affairs and Forestry) of 26 March 2004 No.399 for Waste water specifies : Waste water or Effluent shall **not** contain more than 1000 Faecal Coliform per 100 ml.

These results relate only to samples tested.  
 Opinions and interpretations expressed herein are outside the scope of SANAS accreditation.  
 # - Samples highlighted in grey are not within the limits as specified.

REMARKS:

- a.) The sample HA GROVE HOSPITAL contains high levels of Heterotrophic Plate Count. These bacteria are not pathogenic (disease forming) in nature, however it is advisable to Chlorinate this water to achieve complete disinfection.



P.L.G UYS (M.D.)

Technical Signatory

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