



Web: www.regenwaters.com

REGEN WATERS

LABORATORY • LABORATORIUM

CK. 89/14418/23

4 Woltemade Street
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EMALAHLENI 1035

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CERTIFICATE OF MICROBIOLOGICAL ANALYSIS TEST REPORT

Sample From: **STEVE TSHWETE MUNICIPALITY** Address: P.O. Box 14
MIDDELBURG
Date Received: **27-Sep-13** 1050
Date Analyzed: **27-Sep-13**
Date Reported: **29-Sep-13** ATT: Zelda Louw
Quantity Analyzed: **27** Ref No: **I 1170-1196/13/B**

| LAB NO | SAMPLE NAME | STERILIZED BOTTLE | | STANDARD LIMITS | | | | |
|-------------|------------------|-------------------|----|-------------------------------------|-------|------------------------------|----------------------------------|--------------------------------------|
| | | | | ≤ 10 | | Nil | Nil | ≤ 1000 |
| | | | | TOTAL COLIFORM BACTERIA PER / 100ML | A / B | FAECAL COLIFORM PER / 100 ML | ESCHERISCHIA COLIFORM PER 100 ML | HETEROTROPHIC PLATE COUNT PER 1.0 ML |
| | | YES | NO | | | | | |
| I1170 | No Name | x | | Nil | A | Nil | - | 3 |
| I1171 | Aerorand | x | | Nil | A | Nil | - | 7 |
| I1172 | Bankfontein | x | | Nil | A | Nil | - | 3 |
| I1173 | Dennesig | x | | Nil | A | Nil | - | 49 |
| I1174 | Doomkop 1 | x | | Nil | A | Nil | - | 2 |
| I1175 | Doomkop 2 | x | | Nil | A | Nil | - | NIL |
| I1176 | Eastdene | x | | Nil | A | Nil | - | 26 |
| I1177 | Ext 4 | x | | Nil | A | Nil | - | NIL |
| I1178 | Graspan | x | | Nil | A | Nil | - | 6 |
| I1179 | Groenkol | x | | Nil | A | Nil | - | 9 |
| I1181 | Final Kruger dam | x | | Nil | A | Nil | - | 8 |
| METHOD USED | | | | A- SANAS 5221 OR B- COLILERT | | SANS 5221 | COLILERT | SANS 5221 |

S.A.N.S. 241-1:2011 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.
REMARKS:

- a.) All of these samples fulfil the bacteriological criteria as specified by the SANS 241 Standard for drinking water.

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

SANS
241-1
Edition 1
2011



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CERTIFICATE OF MICROBIOLOGICAL ANALYSIS TEST REPORT

Sample From: **STEVE TSHWETE MUNICIPALITY** Address: P.O. Box 14
MIDDELBURG 1050

Date Received: **27-Sep-13**

Date Analyzed: **27-Sep-13**

Date Reported: **29-Sep-13** ATT: **Zelda Louw**

Quantity Analyzed: **27** Ref No: **I 1170-1196/13/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 | |
| | | YES | NO | A / B | | | | |
| I1184 | Loskop | x | | Nil | A | Nil | - | 9 |
| I1185 | Mafube | x | | Nil | A | Nil | - | 3 |
| I1186 | Mainbuilding | x | | Nil | A | Nil | - | 13 |
| I1187 | Mhluzi | x | | Nil | A | Nil | - | 2 |
| I1188 | Nasaret | x | | Nil | A | Nil | - | 25 |
| I1189 | Nasaret 23/09/13 | x | | Nil | A | Nil | - | Nil |
| I1190 | Newtown | x | | Nil | A | Nil | - | 4 |
| I1191 | Presidents Rus final | x | | Nil | A | Nil | - | 2 |
| I1192 | Pullenshope Clinic | x | | >1000 | A | Nil | - | 1260 |
| METHOD USED | | | | A- SANAS 5221 OR B - COLILERT | | SANS 5221 | COLILERT | SANS 5221 |

S.A.N.S. 241-1:2011 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 |

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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 species : 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.

REMARKS:

- The **Pullenshope Clinic** sample contain excess levels of Total Coliform bacteria. These bacteria are not pathogenic in nature, however it is advisable to Chlorinate this water to achieve complete disinfection.
- All of the other samples fulfil the bacteriological criteria as specified by the SANS 241 Standard for drinking water.

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**CERTIFICATE OF MICROBIOLOGICAL ANALYSIS
TEST REPORT**

Sample From: **STEVE TSHWETE MUNICIPALITY** Address: P.O. Box 14 Middelburg 1050
Date Received: **27-Sep-13**
Date Analyzed: **27-Sep-13**
Date Reported: **29-Sep-13** ATT: Zelda Louw
Quantity Analyzed: **27** Ref No: **I 1170-1196/13/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 | |
| YES | | NO | | A / B | | | | |
| 11194 | Service centre | x | | Nil | A | Nil | - | 71 |
| 11195 | Tosca | x | | Nil | A | Nil | - | 549 |
| 11196 | Vaalbank Final | x | | Nil | A | Nil | - | 3 |
| METHOD USED | | | | A- SANAS 5221 OR B - COLILERT | SANS 5221 | COLILERT | SANS 5221 | |

S.A.N.S. 241-1:2011 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 |
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These results relate only to samples tested.
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REMARKS:

- a.) All of the samples above fulfill the bacteriological criteria as specified by the SANS 241 Standard for drinking water.

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