



## GERT SIBANDE DISTRICT MUNICIPALITY

### WATER QUALITY LABORATORY

Enquiries : Victoria Tshabalala  
E-mail : Laboratoryservices@gsibande.gov.za  
Int. Ref : LDP0007/2025  
Ext. Ref : 2025/07/15 (228544& 228495)

31 July 2025

Attention: Mr. Shabangu  
Dipaleseng Local Municipality  
Private Bag X1005  
Balfour

### EXTERNAL REPORT COMMENT EX AQUATICO LAB : LDP0007/2025.

The following determinands tested on potable water samples for the above mentioned report did not meet the requirements of the south African Drinking Water Standard, SANS241-1 :2015

285605: Balfour Disaster Management : HPC

285606 : Balfour Stand 116 New House : HPC

285607 : Balfour Fortuna WTW Final : HPC & Turbidity

285609: Balfour Excel Garage : HPC

285610 :Siyathemba Stand 6311 : HPC

285611 : Siyethemba 24 Charls Street :HPC

285614 : Greylingstad Reservoirs : Turbidity

285615 : Nthorwana Municipal Office : Turbidity

285623 :Siyathemba Thusong Centre : HPC

285230 : Siyathemba Reservoir: HPC



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Attention: Mr. Shabangu  
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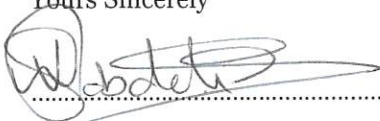
The following determinands tested on potable water samples for the above mentioned report did not meet the requirements of the south African Drinking Water Standard, SANS241-1 :2015

- 285231: Greylingstad Total Garage: HPC
- 285232 :Greylingstad Reservoirs : HPC
- 285233: Nthorwana Municipal Office : HPC
- 285234: Nthorwana Stand 731 : HPC
- 285235: Nthorwana Reservoirs : HPC & Total Coliform

  
.....  
Manager: Chemistry

  
.....  
Manager: Microbiology

Yours Sincerely

  
.....

VM. Tshabalala

HEAD OF SCIENTIFIC SERVICES

PO Box 1748, Ermelo, 2350 : TEL: 017 801 7144/49 /50/97 : FAX : 017 811 3821



**Test Report**

Page 1 of 3

**Client:** Gert Sibande District Municipality  
**Address:** Gert Sibande DM, C/O Joubert and Oosthuisen street, Ermelo  
**Report no:** 228544  
**Project:** Dipaleseng Local Municipality

**Date of report:** 23 July 2025  
**Date accepted:** 17 July 2025  
**Date completed:** 23 July 2025  
**Date received:** 17 July 2025

| Lab no:               |     |                                 |           | 285605                        | 285606                        | 285607                      | 285608                    | 285609                 | 285610                | 285611                      |        |
|-----------------------|-----|---------------------------------|-----------|-------------------------------|-------------------------------|-----------------------------|---------------------------|------------------------|-----------------------|-----------------------------|--------|
| Date sampled:         |     |                                 |           | 15-Jul-25                     | 15-Jul-25                     | 15-Jul-25                   | 15-Jul-25                 | 15-Jul-25              | 15-Jul-25             | 15-Jul-25                   |        |
| Aquatico sampled:     |     |                                 |           | No                            | No                            | No                          | No                        | No                     | No                    | No                          |        |
| Sample type:          |     |                                 |           | Water                         | Water                         | Water                       | Water                     | Water                  | Water                 | Water                       |        |
| Locality description: |     |                                 |           | Balfour - Disaster Management | Balfour - Stand 116 New House | Balfour - Fortuna WTW Final | Balfour - Fortuna WTW Raw | Balfour - Excel Garage | Siyathemba Stand 6311 | Siyathemba 24 Charls Street |        |
| Analyses              |     |                                 | Unit      | Method                        |                               |                             |                           |                        |                       |                             |        |
| A                     | AQL | Sulphate (SO <sub>4</sub> )     | mg/l      | ALM 03                        | 14.9                          | 13.4                        | 14.9                      | 9.43                   | 12.9                  | 12.2                        | 13.1   |
| A                     | AQL | Nitrate (NO <sub>3</sub> ) as N | mg/l      | ALM 06                        | 0.333                         | 0.216                       | 0.232                     | 0.572                  | 0.253                 | 0.217                       | 0.227  |
| A                     | AQL | Total oxidised nitrogen as N    | mg/l      | ALM 06                        | 0.333                         | 0.216                       | 0.232                     | 0.572                  | 0.253                 | 0.217                       | 0.227  |
| A                     | AQL | Calcium (Ca)                    | mg/l      | ALM 30                        | 9.57                          | 8.70                        | 8.88                      | 8.07                   | 8.56                  | 8.85                        | 10.0   |
| A                     | AQL | Magnesium (Mg)                  | mg/l      | ALM 30                        | 7.81                          | 7.48                        | 7.72                      | 7.19                   | 7.25                  | 7.44                        | 8.33   |
| A                     | AQL | Sodium (Na)                     | mg/l      | ALM 30                        | 10.1                          | 10.3                        | 10.5                      | 8.03                   | 9.86                  | 10.2                        | 11.4   |
| A                     | AQL | Potassium (K)                   | mg/l      | ALM 30                        | 2.41                          | 2.24                        | 2.38                      | 2.14                   | 2.10                  | 2.21                        | 2.64   |
| A                     | AQL | Iron (Fe)                       | mg/l      | ALM 31                        | <0.004                        | <0.004                      | <0.004                    | 0.035                  | <0.004                | <0.004                      | <0.004 |
| A                     | AQL | Manganese (Mn)                  | mg/l      | ALM 31                        | <0.001                        | 0.003                       | 0.009                     | <0.001                 | <0.001                | 0.003                       | 0.006  |
| A                     | AQL | E.coli                          | CFU/100ml | ALM 40                        | <1                            | <1                          | <1                        | 1                      | <1                    | <1                          | <1     |
| A                     | AQL | Total coliform                  | CFU/100ml | ALM 40                        | <1                            | 3                           | 2                         | 20                     | 2                     | <1                          | 2      |
| A                     | AQL | Heterotrophic plate count       | CFU/ml    | ALM 45                        | 30500                         | 22500                       | 14500                     | >50 000                | 6213                  | 3389                        | 50000  |
| A                     | AQL | Turbidity                       | NTU       | ALM 21                        | 0.390                         | 1.93                        | 3.70                      | NR                     | 0.579                 | 3.55                        | 2.94   |
| A                     | AQL | Chemical oxygen demand (COD)    | mg/l      | ALM 10                        | NR                            | NR                          | NR                        | NR                     | NR                    | NR                          | NR     |
| N                     | AQL | Dissolved oxygen (DO)           | mg/l      | ALM 28                        | 9.84                          | 9.07                        | 9.75                      | 9.11                   | 8.99                  | 9.07                        | 8.91   |

A = Accredited N = Not accredited Sub = Sub-contracted NR = Not requested RTF = Results to follow NATD = Not able to determine ATR = Alternative test report ; Results relate only to the items received and tested ; Results reported against the limit of detection; Results marked "Not SANAS Accredited" in this report are not covered by the Scope of Accreditation for this laboratory; Uncertainty of measurement available on request for all methods included in the SANAS Schedule of Accreditation; The report shall not be reproduced except in full without approval of the laboratory

*M. Swanepoel*  
 Technical Signatory

## Test Report

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**Client:** Gert Sibande District Municipality  
**Address:** Gert Sibande DM, C/O Joubert and Oosthuisen street, Ermelo  
**Report no:** 228544  
**Project:** Dipaleseng Local Municipality

**Date of report:** 23 July 2025  
**Date accepted:** 17 July 2025  
**Date completed:** 23 July 2025  
**Date received:** 17 July 2025

|                          |           |           |           |           |           |           |           |
|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>Lab no:</b>           | 285612    | 285613    | 285614    | 285615    | 285616    | 285617    | 285618    |
| <b>Date sampled:</b>     | 15-Jul-25 | 15-Jul-25 | 15-Jul-25 | 15-Jul-25 | 15-Jul-25 | 15-Jul-25 | 15-Jul-25 |
| <b>Aquatico sampled:</b> | No        | No        | No        | No        | No        | No        | No        |
| <b>Sample type:</b>      | Water     | Water     | Water     | Water     | Water     | Water     | Water     |

| Locality description:                 |           |        |        | Siyathemba Reservoir | Greylingstad Total Garage | Greylingstad Reservoirs | Nthorwana Municipal Office | Nthorwana Stand 731 | Nthorwana Reservoirs | Grootvlei 192 Protea Avenue |
|---------------------------------------|-----------|--------|--------|----------------------|---------------------------|-------------------------|----------------------------|---------------------|----------------------|-----------------------------|
| Analyses                              | Unit      | Method |        |                      |                           |                         |                            |                     |                      |                             |
| A AQL Sulphate (SO <sub>4</sub> )     | mg/l      | ALM 03 | 11.8   | 12.6                 | 12.8                      | 12.9                    | 15.7                       | 15.0                | 18.6                 |                             |
| A AQL Nitrate (NO <sub>3</sub> ) as N | mg/l      | ALM 06 | 0.237  | 0.274                | 0.301                     | 0.249                   | 0.235                      | 0.380               | 0.324                |                             |
| A AQL Total oxidised nitrogen as N    | mg/l      | ALM 06 | 0.237  | 0.274                | 0.301                     | 0.249                   | 0.235                      | 0.380               | 0.324                |                             |
| A AQL Calcium (Ca)                    | mg/l      | ALM 30 | 7.68   | 9.67                 | 8.03                      | 11.6                    | 8.83                       | 9.51                | 15.7                 |                             |
| A AQL Magnesium (Mg)                  | mg/l      | ALM 30 | 6.67   | 7.87                 | 6.67                      | 9.30                    | 7.40                       | 7.87                | 9.28                 |                             |
| A AQL Sodium (Na)                     | mg/l      | ALM 30 | 9.13   | 10.6                 | 9.41                      | 12.8                    | 10.2                       | 10.9                | 13.3                 |                             |
| A AQL Potassium (K)                   | mg/l      | ALM 30 | 1.90   | 2.51                 | 1.88                      | 3.11                    | 2.22                       | 2.48                | 3.82                 |                             |
| A AQL Iron (Fe)                       | mg/l      | ALM 31 | <0.004 | <0.004               | <0.004                    | <0.004                  | <0.004                     | <0.004              | <0.004               |                             |
| A AQL Manganese (Mn)                  | mg/l      | ALM 31 | 0.007  | <0.001               | <0.001                    | <0.001                  | 0.003                      | 0.004               | <0.001               |                             |
| A AQL E.coli                          | CFU/100ml | ALM 40 | NR     | NR                   | NR                        | NR                      | NR                         | NR                  | NR                   |                             |
| A AQL Total coliform                  | CFU/100ml | ALM 40 | NR     | NR                   | NR                        | NR                      | NR                         | NR                  | NR                   |                             |
| A AQL Heterotrophic plate count       | CFU/ml    | ALM 45 | NR     | NR                   | NR                        | NR                      | NR                         | NR                  | NR                   |                             |
| A AQL Turbidity                       | NTU       | ALM 21 | 1.96   | 1.02                 | 7.76                      | 11.1                    | 1.82                       | 2.39                | 0.836                |                             |
| A AQL Chemical oxygen demand (COD)    | mg/l      | ALM 10 | NR     | NR                   | NR                        | NR                      | NR                         | NR                  | NR                   |                             |
| N AQL Dissolved oxygen (DO)           | mg/l      | ALM 28 | 9.66   | 8.62                 | 9.71                      | 9.74                    | 9.73                       | 9.34                | 9.86                 |                             |

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**Test Report**

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**Client:** Gert Sibande District Municipality  
**Address:** Gert Sibande DM, C/O Joubert and Oosthuisen street, Ermelo  
**Report no:** 228544  
**Project:** Dipaleseng Local Municipality

**Date of report:** 23 July 2025  
**Date accepted:** 17 July 2025  
**Date completed:** 23 July 2025  
**Date received:** 17 July 2025

|                                       |                                  |                     |                        |                                    |                                 |
|---------------------------------------|----------------------------------|---------------------|------------------------|------------------------------------|---------------------------------|
| <b>Lab no:</b>                        | 285619                           | 285620              | 285621                 | 285622                             | 285623                          |
| <b>Date sampled:</b>                  | 15-Jul-25                        | 15-Jul-25           | 15-Jul-25              | 15-Jul-25                          | 15-Jul-25                       |
| <b>Aquatico sampled:</b>              | No                               | No                  | No                     | No                                 | No                              |
| <b>Sample type:</b>                   | Water                            | Water               | Water                  | Water                              | Water                           |
| <b>Locality description:</b>          | Grootvlei<br>Municipal<br>Office | Grootvlei<br>Clinic | Grootvlei<br>Reservoir | Grootvlei<br>Mine<br>WWTW<br>Final | Siyathemba<br>Thusong<br>Centre |
| <b>Analyses</b>                       | <b>Unit</b>                      | <b>Method</b>       |                        |                                    |                                 |
| A AQL Sulphate (SO <sub>4</sub> )     | mg/l                             | ALM 03              | 20.3                   | 20.0                               | 20.2                            |
| A AQL Nitrate (NO <sub>3</sub> ) as N | mg/l                             | ALM 06              | 0.334                  | 0.310                              | 0.413                           |
| A AQL Total oxidised nitrogen as N    | mg/l                             | ALM 06              | 0.334                  | 0.310                              | 0.413                           |
| A AQL Calcium (Ca)                    | mg/l                             | ALM 30              | 15.1                   | 14.1                               | 13.4                            |
| A AQL Magnesium (Mg)                  | mg/l                             | ALM 30              | 9.06                   | 8.52                               | 8.25                            |
| A AQL Sodium (Na)                     | mg/l                             | ALM 30              | 12.9                   | 12.3                               | 11.9                            |
| A AQL Potassium (K)                   | mg/l                             | ALM 30              | 3.70                   | 3.41                               | 3.29                            |
| A AQL Iron (Fe)                       | mg/l                             | ALM 31              | <0.004                 | <0.004                             | <0.004                          |
| A AQL Manganese (Mn)                  | mg/l                             | ALM 31              | <0.001                 | <0.001                             | <0.001                          |
| A AQL E.coli                          | CFU/100ml                        | ALM 40              | NR                     | NR                                 | NR                              |
| A AQL Total coliform                  | CFU/100ml                        | ALM 40              | NR                     | NR                                 | NR                              |
| A AQL Heterotrophic plate count       | CFU/ml                           | ALM 45              | NR                     | NR                                 | NR                              |
| A AQL Turbidity                       | NTU                              | ALM 21              | 0.773                  | 0.484                              | 0.542                           |
| A AQL Chemical oxygen demand (COD)    | mg/l                             | ALM 10              | NR                     | NR                                 | NR                              |
| N AQL Dissolved oxygen (DO)           | mg/l                             | ALM 28              | 9.87                   | 9.93                               | 9.86                            |

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**Test Report**

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**Client:** Gert Sibande District Municipality  
**Address:** Gert Sibande DM, C/O Joubert and Oosthuisen street, Ermelo  
**Report no:** 228495  
**Project:** Dipaleseng Local Municipality

**Date of report:** 21 July 2025  
**Date accepted:** 17 July 2025  
**Date completed:** 21 July 2025  
**Date received:** 17 July 2025

|                   |           |           |           |           |           |           |           |
|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Lab no:           | 285230    | 285231    | 285232    | 285233    | 285234    | 285235    | 285236    |
| Date sampled:     | 15-Jul-25 | 15-Jul-25 | 15-Jul-25 | 15-Jul-25 | 15-Jul-25 | 15-Jul-25 | 15-Jul-25 |
| Aquatico sampled: | No        | No        | No        | No        | No        | No        | No        |
| Sample type:      | Water     | Water     | Water     | Water     | Water     | Water     | Water     |

| Locality description:           |           |        | Siyathemba Reservoir | Greylingstad Total Garage | Greylingstad Reservoirs | Nthorwana Municipal Office | Nthorwana Stand 731 | Nthorwana Reservoirs | Grootvlei 192 Protea Avenue |
|---------------------------------|-----------|--------|----------------------|---------------------------|-------------------------|----------------------------|---------------------|----------------------|-----------------------------|
| Analyses                        | Unit      | Method |                      |                           |                         |                            |                     |                      |                             |
| A AQL E.coli                    | CFU/100ml | ALM 40 | <1                   | <1                        | <1                      | <1                         | 1                   | <1                   | <1                          |
| A AQL Total coliform            | CFU/100ml | ALM 40 | <1                   | <1                        | 2                       | 4                          | 4                   | 67                   | <1                          |
| A AQL Heterotrophic plate count | CFU/ml    | ALM 45 | 10900                | >50000                    | 8720                    | 17400                      | 7300                | 4340                 | 13                          |

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*M. Swanepoel*  
 Technical Signatory

## Test Report

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|                   |                                                            |                        |              |
|-------------------|------------------------------------------------------------|------------------------|--------------|
| <b>Client:</b>    | Gert Sibande District Municipality                         | <b>Date of report:</b> | 21 July 2025 |
| <b>Address:</b>   | Gert Sibande DM, C/O Joubert and Oosthuisen street, Ermelo | <b>Date accepted:</b>  | 17 July 2025 |
| <b>Report no:</b> | 228495                                                     | <b>Date completed:</b> | 21 July 2025 |
| <b>Project:</b>   | Dipaleseng Local Municipality                              | <b>Date received:</b>  | 17 July 2025 |

|                              |                                  |                     |                        |                                    |
|------------------------------|----------------------------------|---------------------|------------------------|------------------------------------|
| <b>Lab no:</b>               | 285237                           | 285238              | 285239                 | 285240                             |
| <b>Date sampled:</b>         | 15-Jul-25                        | 15-Jul-25           | 15-Jul-25              | 15-Jul-25                          |
| <b>Aquatico sampled:</b>     | No                               | No                  | No                     | No                                 |
| <b>Sample type:</b>          | Water                            | Water               | Water                  | Water                              |
| <b>Locality description:</b> | Grootvlei<br>Municipal<br>Office | Grootvlei<br>Clinic | Grootvlei<br>Reservoir | Grootvlei<br>Mine<br>WWTW<br>Final |

|   | Analyses                      | Unit      | Method |    |    |    |         |
|---|-------------------------------|-----------|--------|----|----|----|---------|
| A | AQL E.coli                    | CFU/100ml | ALM 40 | <1 | <1 | <1 | >100000 |
| A | AQL Total coliform            | CFU/100ml | ALM 40 | <1 | <1 | <1 | >100000 |
| A | AQL Heterotrophic plate count | CFU/ml    | ALM 45 | 6  | 6  | 4  | NR      |

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