# Quality of Water in the Vaal Barrage Reservoir

Date Sampled 6 February 2019



RAND WATER

N

SEBOKENG

VEREENIGING

VANDERBIJLPARK

Rietspruit

Village Manor

Lochvaal Club

Vaalview Aquatic Club

Riverside Sun Hotel

Emfuleni Park

Eligwa Club

Riviera Aquatic Club

Dickinson Park

Riviera Hotel

Klip River

Vosloo Park

Suikerbosrant

FW De Klerk Bridge

Railway Bridge

Vaal River

R59 Bridge

Ascot Bridge

Lethabo Weir

Vaal River

Baddrift Bridge

Abrahamsrust Resort

Clavadel Caravan Park

Luciana Country Club

Vaal River

Leeuspruit

Taaiboschspruit

SASOLBURG

Downstream to Parys

Upstream to Vaal Dam

Toll Free No: 0860 10 10 60

Not to Scale

⬤ Sample Point

Interpretation of the results obtained from water samples collected at the respective sample points (refer map above).

| *Escherichia coli* (E.coli) Predicted symptoms include: Skin irritations, infections & intestinal disorders* | | *E.coli* counts per 100ml at sample points | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | This Week | 326 | 7 | 3,130 | 1,203 | 1,733 | 2 | 1 | 146 | 77,101 | 0 |
| | Last Week | 816 | 9 | 14,210 | 1,553 | 4,280 | 8 | 1 | 102 | 24,810 | 8 |
| Guideline | | Low risk of gastrointestinal disorders *E.coli* < 130 counts/100ml | | | Slight risk of gastrointestinal disorders *E.coli* 130 - 200 counts/100ml | | | Significant risk of gastrointestinal disorders *E.coli* 200 - 400 counts/100ml | | High risk of gastrointestinal disorders *E.coli* > 400 counts/100ml | |

| **Blue Green Algae** Predicted symptoms include: Skin irritations, infections & intestinal disorders* | | Blue Green algae counts at sample points | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | This Week | 0 | 32,828 | 1,507 | 1,399 | 5,704 | 2,906 | 4,090 | 57,152 | 1,174 | 35,196 |
| | Last Week | 44 | 11,839 | < 40 | 215 | 22,280 | 17,329 | 20,558 | 123,346 | 215 | 4,843 |
| Guideline | | Low Risk Blue Green algae < 20,000 cells/ml | | | Moderate Risk Blue Green algae 20,000 – 100,000 cells/ml | | | High Risk Blue Green algae > 100,000 cells/ml | | | |

| **Algal Pigments** Predicted nuisance conditions include: Scums & smells | | Algal pigments expressed as Chlorophyll-a levels at sample points | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | This Week | 5 | 20 | 4 | 11 | 30 | 69 | 12 | 191 | 27 | 43 |
| | Last Week | 6 | 7 | 10 | 44 | 34 | 1,211 | 29 | 171 | 25 | 47 |
| Guideline | | Low Risk Chlorophyll-a < 15ug/l | | | Moderate Risk Chlorophyll-a 15 - 30ug/l | | | High Risk Chlorophyll-a > 30ug/l | | | |

* If ingested. X Sample not received / no data available. Reports generated every Friday of the year.