

# Quality of Water in the Vaal Barrage Reservoir

Date Sampled 28 July 2021



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

<b>Escherichia coli (E.coli)</b> Predicted symptoms include: Skin irritations, infections & intestinal disorders*	<b>E.coli counts per 100ml at sample points</b>									
	1	2	3	4	5	6	7	8	9	10
	This Week	68	5	5,880	13,960	2,310	10	3	206	16,580
Last Week	127	2	10,460	38,730	1,046	16	6	155	24,950	3

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

<b>Blue Green Algae</b> Predicted symptoms include: Skin irritations, infections & intestinal disorders*	<b>Blue Green algae counts at sample points</b>									
	1	2	3	4	5	6	7	8	9	10
	This Week	442	3,499	18,945	10,498	11,705	26,426	7,119	11,101	15,928
Last Week	1,940	345	30,408	1,408	2,172	724	2,413	1,569	24,254	2,051

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

<b>Algal Pigments</b> Predicted nuisance conditions include: Scums & smells	<b>Algal pigments expressed as Chlorophyll-a levels at sample points</b>									
	1	2	3	4	5	6	7	8	9	10
	This Week	2	14	5	13	20	62	16	28	30
Last Week	3	13	3	21	20	37	87	191	18	51

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.

DISCLAIMER: Although Rand Water has made every endeavour to make an accurate assessment of the parameters described above (based on published South African and international criteria), neither Rand Water, nor any of its officials, shall be responsible for any damage or health related problems that may result due to the use of the Vaal Barrage Reservoir for any purpose. The values reported are only an indicator of water quality, and low numbers are no guarantee of safe water.