

# Quality of Water in the Vaal Barrage Reservoir

Date Sampled 30 June 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	140	16	7,330	86,640	770	167	1	416	3,230
Last Week	121	36	15,530	249	22	140	2	313	46,110	62

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	2,963	2,640	40,061	16,049	603	754	15,807	31,132	29,081
Last Week	1,609	1,569	33,425	8,849	17,698	11,584	28,719	51,404	17,135	21,599

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	1	14	3	3	4	12	71	315	8
Last Week	4	4	4	3	9	28	300	208	6	218

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.