

Quality of Water in the Vaal Barrage Reservoir

Date Sampled 14 April 2021



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	727	30	7,170	19,040	2,420	139	3	16	198,630
Last Week	435	26	770	21,870	1,986	17	1	23	43,520	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

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	< 40	1,327	40	362	241	4,706	14,963	2,655	724
Last Week	80	< 40	< 40	< 40	1,569	1,448	13,032	< 40	2,491	3,982

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	3	60	4	9	25	54	73	116	15
Last Week	3	5	4	7	21	13	50	38	18	49

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.