

Quality of Water in the Vaal Barrage Reservoir

Date Sampled 8 November 2017



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

<i>Escherichia coli</i> (<i>E.coli</i>) Predicted symptoms include: Skin irritations, infections & intestinal disorders*	<i>E.coli</i> counts per 100ml at sample points									
	1	2	3	4	5	6	7	8	9	10
	This Week	62	20	411	2,420	365	12	0	15	> 241,960
Last Week	276	26	6,570	219	727	29	1,450	25	57,940	185
Guideline	Low risk of gastrointestinal disorders <i>E.coli</i> < 130 counts/100ml			Slight risk of gastrointestinal disorders <i>E.coli</i> 130 - 200 counts/100ml		Significant risk of gastrointestinal disorders <i>E.coli</i> 200 - 400 counts/100ml			High risk of gastrointestinal disorders <i>E.coli</i> > 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	241	603	< 40	1,448	6,321	3,730	40	< 40	1,327
Last Week	< 40	3,620	< 40	117,409	22,444	< 40	603	121	< 40	511,265
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	201	15	11	63	60	42	7	53	26
Last Week	13	42	36	58	22	15	24	40	79	1,195
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.

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.