

# Quality of Water in the Vaal Barrage Reservoir

Date Sampled 19 September 2018



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

<b><i>Escherichia coli</i> (<i>E.coli</i>)</b> 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	99	5	457	24,810	980	4	10	1,414	95,900
Last Week	84	2	276	12,500	86	21	27	1,414	26,030	96
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	

<b>Blue Green Algae</b> 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	101	< 40	483	290	241	603	121	181	965
Last Week	< 40	362	362	1,207	241	1,689	362	965	1,569	241
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			

<b>Algal Pigments</b> 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	10	9	4	7	9	60	66	84	14
Last Week	6	27	3	46	74	24	42	117	12	63
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.