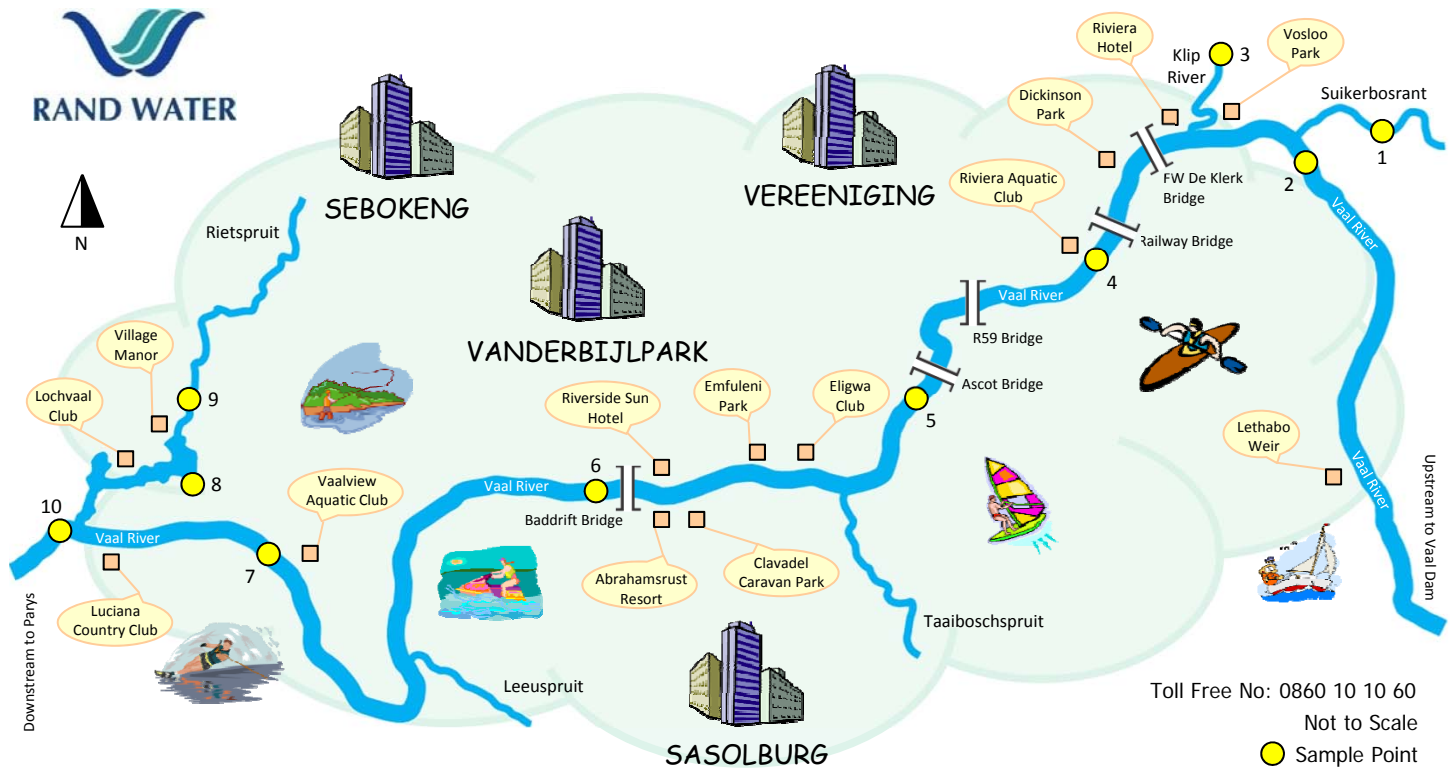


# Quality of Water in the Vaal Barrage Reservoir

Date Sampled 14 August 2019



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	145	9	345	13,960	1,203	179	6	579	36
Last Week	150	4	378	12,010	411	46	11	15,530	198,630	55
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*	<b>Blue Green algae counts at sample points</b>									
	1	2	3	4	5	6	7	8	9	10
	This Week	< 40	< 40	108	< 40	1,973	215	98	108	108
Last Week	< 40	< 40	215	239	< 40	179	< 40	538	646	538
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	<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	5	5	7	25	56	41	100	10
Last Week	3	4	23	9	56	23	< 104	16	24	77
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.