

Waikato District Council Wastewater Treatment Monitoring Results
 Site **Raglan**
 Consent number **971390**
 Report date **Jul 09 - Mar 10**

Minor Transgression or Exceedance	
Discharge Transgression or Limit Exceeded	
suspect data or no data recorded	
Value actually < number shown i.e <2 MPN/100mL	

1 Discharge Limits - Monthly Tests from Outlet

Parameter	Unit	Consent value	Consent value	Median	10 Percentile	90 Percentile	Average	Maximum	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	17-Dec-09	23-Dec-09	30-Dec-09	7-Jan-10	12-Jan-10	20-Jan-10	12-Feb-10	2-Mar-10
SS (median from 12)	g/cum	30	20	75	15.4	118	69	130	9.3	30	17	15	43	87	130	98	120	110	83	75	74
cBOD5 (median from 12)	g/cum	20	10	12	5.98	18	12	24	1.7	13	7.5	5.6	18	18	24	12	11	17	15	8	7.9
		Consent value	Consent value																		
FC (median from 12)	MPN/100ml	43	14	2	1	58	377	4800	1	4800	2	1	2	10	10	70	2	2	2	2	2
Enterococci (15 Dec - 30 Jan)	MPN/100ml	5 of 6 weekly samples	35	6	2	10	6	10						10	10	10	2	2	2		

2 Characterisation Values - Monthly Tests from Outlet Post UV

Parameter	Units	Median	10 Percentile	90 Percentile	Average	Maximum	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	17-Dec-09	23-Dec-09	30-Dec-09	07-Jan-10	12-Jan-10	20-Jan-10	12-Feb-10	2-Mar-10	
E Coli	MPN/100ml	2	2	2	2	2										2				
Total Ammoniacal Nitrogen	g/cum	0.22	0	2	1	3							3	1.7	0.16	0.073	0.11			0.27
TKN	g/cum	6	4	10	7	11							11	3.8	8.7	6.7	5			5
Nitrate NO3-N	g/cum	9	5	12	9	12	No	Data	Taken				5.6	8.9	11	12	9.7			4.4
Nitrite NO2-N	g/cum	0.88	0.58	2	1.19	3							2.5	1.7	0.93	0.82	0.8			0.36
Total Nitrogen	g/cum	17	12	20	16	21							19.1	14.4	20.63	19.52	15.5			9.76
DRP	g/cum	3	2	4	3	4							4.2	3.8	2.9	2.1	3.9			1.8
TP	g/cum	5	3	5	4	5							5.3	4.7	4.8	4	5.4			2.7
Temp	*C	22	15	26	21	27	10.8	15.2		17.4	19.6	20.8	23	22	22.4	23	26.6	26.6		23.5
Dissolved Oxygen		6	5	8	6	11	6.21	4.2	5.41	6.51	5.38	5.5	7.82	10.59	5.42	4.99	5.65	5.35		5.58
Alkalinity	g/cum													0.056						
pH		9	8	9	9	10	7.78	7.28	7.54	7.6	7.86	8.79	8.2	9.06	9.42	9.63	9.1	9.19		9.4
Conductivity	uS	512	466	764	564	1235	778	707	622	514	476	502	480	463	512	507	530	9.2		1235
UV Transmittance	%T, 1 cm cell	35	13	52	33	56			52	51	35	16	13	25	19	56	51	13		37
UV Absorbance	AU, 1 cm cell	0.45	0.29	0.80	0.50	0.90			0.29	0.29	0.45	0.797	0.9	0.608	0.729	0.249	0.289	0.51		0.434

3 Characterisation Values - Daily Total Flows

Consent limit cum/day	2600														
Date	Flow cum/day														
Maximum 20?	Median	10 Percentile	90 Percentile	Average	Maximum	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10
Minimum Daily Flow	cum/day	372	2	793	414	944	944	755	287	2	340	372	652	377	0
Average Daily Flow	cum/day	971	785	1510	1059	1730	1730	1062	920	1455	818	912	1008	654	
Maximum Daily Flow	cum/day	1609	1284	2304	1748	3878	1910	1733	1664	3878	340	1609	1520	1531	
Total Monthly Flow	cum/day	28260	23583	46798	32235	53621	53621	32909	27604	45092	24531	28260	30086	28217	19791
Number of Days Discharged Outside Tides (maximum 20)		5							5						

October 2009 Storm event