

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		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
		90 Percentile	Median																		
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																	
		90 Percentile	Median																		
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		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																
Minimum Daily 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
Average Daily Flow	cum/day		372	2	793	414	944	944	755	287	2	340	372	652	377	0	
Maximum Daily Flow	cum/day		971	785	1510	1059	1730	1730	1062	920	1455	818	912	1008	654		
Total Monthly Flow	cum/day		1609	1284	2304	1748	3878	1910	1733	1664	3878	340	1609	1520	1550	1531	
Number of Days Discharged Outside Tides (maximum 20)			28260	23583	46798	32235	53621	53621	32909	27604	45092	24531	28260	30086	28217	19791	
		5									5						

October 2009 Storm event