

Waikato District Council Wastewater Treatment Monitoring Results
 Site **Maramarua**
 Consent number **101961**
 Report Period **July 2012 - June 2013**

Discharge Limit Exceeded	
Missing data	

1 Characterisation Values - Monthly Tests from Treated Waste Discharge Tank

Parameter	Units	Median	10 Percentile	90 Percentile	Average	Maximum	12-Jul-12	07-Aug-12	04-Sep-12	11-Oct-12	14-Nov-12	13-Dec-12	9-Jan-13	05-Feb-13	06-Mar-13	03-Apr-13	02-May-13	05-Jun-13	
Suspended Solids	g/m3	3.0	26.0	10.5	6.2	26.0	26	3	7	5	4	3	3	3	3	3	3	3	10.9
cBOD5	g/m3	2.4	41.0	10.2	7.1	41.0	41	2	10	5	4	2.76	2	2	2	2	2	2.09	10.2
Ammoniacal-N	g/m3	1.6	20.0	5.3	3.4	20.0	20	0.029	2.76	4.3	2.1	3.01	0.82	0.662	1.06	0.453	0.0122	5.42	
Total Kjeldahl Nitrogen	g/m3	0.5	24.0	7.6	3.8	24.0	24	0.98	5.3	5.8		0.1	0.1	1.68	0.1	0.1	0.1	0.1	
Nitrate	g/m3	48.7	99.0	91.4	49.0	99.0	0.007	18.1	16.9	31	49	48.3	61.1	92	86	99	76.9	10.2	
Total nitrogen	g/m3	48.7	99.1	92.9	52.2	99.1	24.007	19.08	22.2	36.8	49	48.3	61.2	93.68	86	99.10	77.00	10.2	
DRP	g/m3	7.5	10.0	9.8	6.9	10.0	3.8	3.7	5.8	5.7	8	8.52	9.87	7.48	7.45	10	8.91	3.76	
Total Phosphorus	g/m3	7.5	10.7	10.1	7.0	10.7	4.4	3.4	5.9	5.5	7.7	8.2	10.2	8.4	7.2	10.7	8.8	3.94	
Faecal coliforms	MPN/100ml	2450	870000	130100	91092	870000	870000	470	41000	31000	2000	500	2500	330	100	2800	2400	140000	
E coli	MPN/100ml	1950	870000	111500	88138	870000	870000	400	35000	24000	1100	330	2000	330	90	2500	1900	120000	
pH (field)	units	7.2	7.9	7.5	7.0	7.9	7.4	7.12	7.93	6.75	7.29	7.53	7.42	5.85	6.92	7.2	6.67	6.47	
Conductivity(field)	uS/cm	1195	1670	1579	1139	1670	989	709	1478	768	1340	1670	1190	1060	1200	1590	1200	470	
Temperature	*C	18.2	22.7	22.7	18.4	22.7	12.3	14.5	14.5	16.8	16.6	20.1	22.7	22.4	22.7	22.3	19.5	16	
Dissolved Oxygen		6.0	8.2	7.8	5.6	8.2	1.1	8.0	6.0	4.25	5.95	4.35	6.0	6.0	6.0	6.09	8.15	5.54	

2 Daily Discharge Volume Limit 6 m3/day

Parameter	Units	Limit	Median	10 Percentile	90 Percentile	Average	Maximum	July	August	Sept	October	November	December	January	February	March	April	May	June
Avg Daily Flow	m3/day	SCADA	2.8	2.2	5.7	3.7	6.7	6.7	5.7	4.4	2.9	2.7	2.7	2.1	2.2	2.2	2.4	5.5	4.6
Max Daily Flow	m3/day	SCADA	5.0	3.0	12.0	7.8	21.0	21.0	12.0	12.0	4.0	5.0	4.0	3.0	3.0	3.0	5.0	12.0	10.0

3 Characterisation Values - Monthly Tests from Treated Waste Discharge Tank

Parameter	Units	2008-09	2009-10	2010-11	2011-12	2012-13
		Median	Median	Median	Median	Median
Suspended Solids	g/m3	7.4	8.9	5.0	4.0	3.0
cBOD5	g/m3	2.4	4.2	2.4	5.1	2.4
Ammoniacal-N	g/m3	3.3	11.5	2.1	4.0	1.6
Total Kjeldahl Nitrogen	g/m3	5.9	11	3.6	5.7	0.5
Nitrate	g/m3	33.5	29.5	30.0	16.6	48.7
Total nitrogen	g/m3	38.7	40.08	44.4	28.8	48.7
DRP	g/m3	6	6.2	3.4	5.0	7.5
Total Phosphorus	g/m3	6.6	6.85	3.7	5.2	7.5
Faecal coliforms	MPN/100ml	615	1100	530	2100	2450
E coli	MPN/100ml	600	890	530	450	1950
pH (field)	units	5.6	6.38	5.5	7.0	7.2
Conductivity(field)	uS/cm	582	624	625	777	1195
Temperature	*C	17.6	17	18.0	18.8	18.2
Dissolved Oxygen		5.7	4.68	6.6	4.4	6.0