

**Waikato District Council Wastewater Treatment Monitoring Results**

Site **Huntly**  
 Consent number **951126**  
 Report Period **July 2007 to June 2008**

Discharge Transgression	
Discharge Limit Exceeded	
nr = no recorded data	
suspect data	

1 Discharge Limits - Monthly Tests from Wetland/Rockfilter Outlet																			
Parameter	Unit	Consent value	Consent value 90 Percentile	Maximum	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Median	90 Percentile	AVG
pH between 6 - 9					7.02	7.04	7.02	7.03	7.18	7.06	7.04	7.18	7.07	7.03	6.82	6.97	7.04		
Ammonia NH4-N (median from 10)	g/cum	10	15		1.26	2.57	2.38	7.72	14	11	13	9.4	10	5.2	2.8	2.4	6.46	12.8	6.8
Nitrate NO3 (median from 10)	g/cum	5	8		5.11	0.684	0.469	0.075	0.009	0.003	0.002	0.002	<.002	0.91	0.46	0.066	0.075	0.91	0.7
DRP	g/cum	5	10		4.54	4.67	3.63	4.68	5.7	6.7	8.9	11	11	8.9	6.7	6.5	6.6	10.79	6.9
BOD (median from 10)	g/cum	20	50		20	12	14	8	12	11	18	18	22	13	47	13	13.5	21.8	17.3
SS (median from 10)	g/cum	30	50		50	30	39	15	25	25	78	34	44	63	87	89	41.5	86.1	48.3
FC (median from 5)	MPN/100ml	3000			1400	210	890	790	2600	2600	7400	250000	14000	6000	2500	1200	2550	13340	24132.5

2 Characterisation Values - Monthly Tests from Wetland/Rock Filter Outlet																
Parameter	Units	Median														
Total P	g/cum	7.7	6.13	5.15	4.35	4.87	6.4	6.8	9.2	11	11	9.8	8.2	7.7		
TKN	g/cum	14	10.2	7.3	7.3	11.8	18	18	20	16	17	14	13	12		
Temp	*C	16	10.4	12.2	11.7	13.5	16	22.3	22.4	20.5	18.3	20.5	13.6	12		
EC	MPN/100ml	2550	1400	140	610	Not sampled	1800	2600	2700	10000	230000	6000	2500	800		

3 Characterisation Values - Weekly Sample from Oxidation Ponds Outlet								
Parameter	Units	10/07/07 10:25am grab sam	2/8/07 11:15am g	6/9/07 10:30am	4/10/07 9:45am	16/11/07 13:00	14/12/07 13:00	18/1/08 13:00:00 p.m.
DO		4.61	7.8	9.63	6.07	10.35	4.85	5.87

4 Characterisation Values - Quarterly Tests from Oxidation Ponds Outlet					
Parameter	Units	Jun 2007	Sep 2007	Dec 2007	Mar 2008
Zinc	g/cum	Values not sampled	0.29	Values not sam	0.012
Iron	g/cum	Values not sampled	0.006	Values not sam	0.22
PCB's	g/cum	Values not sampled	<0.0001	Values not sam	<0.004
BOD	g/cum	20	20	35	18
SS	g/cum	59	62	91	160
DRP	g/cum	6.43	3.2	6.1	8.8
TP	g/cum	7.84	4.36	7.5	10
Ammonia	g/cum	9.17	0.06	4.2	0.013
TKN	g/cum	18	7.4	19	18
Nitrate NO3	g/cum	2.9	2.11	0.58	0.06
pH	units	7.55	7.66	8.74	8.83
Temp	*C	12.6	11.9	23.2	20.3
FC	MPN/100ml	9400	3000	3000	15000
E Coli	MPN/100ml	5500	2600	3000	15000

5 Characterisation Values - Annual Tests from Wetland/Rock Filter Outlet							
Continuous Feb - Mar 5 tests over 30 days continuous period							
Parameter	Units	12-Feb-08	21-Feb-08	27-Feb-08	4-Mar-08	11-Mar-08	MEDIAN
BOD	g/cum	18	18	16	17	18	18
SS	g/cum	34	51	39	45	47	45
DRP	g/cum	11	9.5	9.8	11	9.8	9.8
TP	g/cum	11	10	10	10	11	10
Ammonia	g/cum	9.4	8	8.6	9.8	9	9
TKN	g/cum	16	16	17	16	17	16
Nitrate NO3	g/cum	0.002	0.002	0.002	<0.002	<0.002	0.002
pH	units	7.18	not recorded	not recorded	7.61	7.15	7.18
Temp	*C	20.5	not recorded	not recorded	19.1	20.8	20.5
FC	MPN/100ml	250000	4600	5700	12000	7300	7300
EC	MPN/100ml	10000	4600	5700	12000	7300	7300

6 Characterisation Values - Daily Total Flows													
Consent limit cum/day	6000												
	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Average
Minimum Daily Flow	2336	2896	1903	1627	1086	947	559	559	843	990	1292	1420	1372
Average Daily Flow	3460	4045	2553	2620	1763	1422	796	1075	1085	1578	1943	2651	2083
Maximum Daily Flow	4618	5029	3835	3431	2717	2391	977	1303	1404	2469	4193	3873	3020
Monthly Total	107266	125396	76578	78599	52892	42646	22805	31185	32544	47354	58290	79534	62924

estimated      estimated      estimated