

Discharge Limit Exceeded	
nr = no recorded data	
Value actually < number shown	

1 Discharge Limits - Monthly Tests from Oxidation Ponds Outlet

Parameter	Unit	Consent value	Consent value	Median	10 Percentile	90 Percentile	Average	Maximum	July 2011	Aug 2011	Sept 2011	Oct 2011	Nov 2011	Dec 2011	Jan 2012	Feb 2012	Mar 2012	Apr 2012	May 2012	Jun 2012
		Median	90 Percentile																	
pH between 6 - 9				7.36	7.20	7.7	7.4	7.90	7.45	7.33	7.9	7.2	7.22	7.3	7.74	7.63	7.39	7.24	7.4	7.13
Ammonia NH4-N (median from 10)	g/cum	18	30	0.235	0.02	1.2	0.7	4.70	0.014	0.037	0.026	0.88	1	1.2	0.52	0.31	0.16	4.7	0.142	
Total Nitrogen	g/cum	30		14.05	5.00	20.8	12.8	21.00	5.52	6.165	4.947	14	1.026	10	17.9	21	21	19.2	14.1	18.70
Total Phosphorous	g/cum	8		3.55	2.83	4.1	3.5	4.20	2.8	2.7	3.3	3.5	4.1	3.9	3.1	4.1	4.2	3.2	3.8	3.6
cBOD5 (median from 10)	g/cum	30	90	33.5	18.20	45.4	31.3	46.00	23	46	46	16	38	40	34	33	20	27	18	35
SS (median from 10)	g/cum	60	120	90	68.90	203.6	110.6	220.00	68	89	96	91	86	78	115	146	220	210	77	51
E-coli	MPN/100ml	3500		14000	1800	39000	18164	47000	1800	3500		1600	5900	47000	38000	23000	30000	12000	14000	22000

*From 1 Dec 2012 limits change

** Ecoli sampled weekly from November. Highest result entered on this page. See Individual monthly pages for all results.

2 Characterisation Values - Monthly Tests from Oxidation Pond

Parameter	Units	Median	10 Percentile	90 Percentile	Average	Maximum	July 2011	Aug 2011	Sept 2011	Oct 2011	Nov 2011	Dec 2011	Jan 2012	Feb 2012	Mar 2012	Apr 2012	May 2012	Jun 2012
Conductivity	g/cum	400	330	431	397	489	326	319	402	391	381	431	363	398	413	420	489	431
Temp	°C	18	12	20.54	17	21.8	11.7	11.3	12.7	17.8	19.6	20	20.6	21.8	19	18.8	12.2	14.2
Colour							green	green	olive	green	green	green	green	green	green	green	green	green
Odour							slight	slight	none	slight	slight	slight	some	some	slight	some	some	some

3 Characterisation Values - monthly grab sample from Oxidation Pond

Parameter	Units	6/7/11 @ 10.25	3/8/11 @ 11.00	13/9/11 @ 9.10	5/10/11 @ 10.30	1/11/11 @ 10.30am	8/12/11 @ 8.45am	16/1/12 @ 9.20am	12/2 @ 9.45am	1/3/12 @ 10am	3/4/12 @ 10.20am	3/5/12 @ 9am	6/6/12 @ 14.30pm
DO		10	9.1	11.23	5.64	3.49	2.80	8.87	4.53	8.35	4.4	4	7.51

4 Characterisation Values - Daily Total In Flows

Parameter	Median	10 Percentile	90 Percentile	Average	Maximum	Jul 2012	Aug 2012	Sep 2012	Oct 2012	Nov 2012	Dec 2012	Jan 2012	Feb 2012	Mar 2012	Apr 2012	May 2012	Jun 2012
Minimum Daily In Flow	1241	1195	1302	1261	1464	1464	1274	1193	1215	1249	1230	1298	1217	1302	1165	1477	1295
Average Daily In Flow	1474	1340	1796	1563	2118	2118	1438	1409	1520	1336	1796	1697	1376	1471	1325	1477	1792
Maximum Daily In Flow	2207	1636	4480	2675	4621	4470	1929	1922	2262	1487	4621	4481	1619	2151	1793	2507	2856
Total Monthly Influent Volume	44122	39791	55481	47095	65648	65648	43140	42268	47131	40083	55676	50822	38536	44029	39759	44214	53730

5 Characterisation Values - Daily Total Out Flows

Parameter	Consent limit cum/day	Median	10 Percentile	90 Percentile	Average	Maximum	Jul 2012	Aug 2012	Sep 2012	Oct 2012	Nov 2012	Dec 2012	Jan 2012	Feb 2012	Mar 2012	Apr 2012	May 2012	Jun 2012
Minimum Daily Out Flow	11200	1002	742	1283	1055	2065	2065	1162	1081	1048	929	721	969	438	1035	940	969	1296
Average Daily Out Flow		1528	1159	1986	1660	3020	3020	1534	1507	1740	1172	1734	1995	1133	1505	1158	1522	1905
Maximum Daily Out Flow		2566	1819	3657	2614	3750	3578	2010	2205	2651	1753	3750	3666	1799	2616	1996	2515	2833
Total Monthly Effluent Volume		46634	34780	61427	50589	93609	93609	47569	45219	53954	35154	53745	61831	32869	44891	34738	45698	57795

6 Characterisation Values - Average Nutrient Loading Discharged to Waikato River

Parameter	Units	Median	10 Percentile	90 Percentile	Average	Maximum	Jul 2012	Aug 2012	Sep 2012	Oct 2012	Nov 2012	Dec 2012	Jan 2012	Feb 2012	Mar 2012	Apr 2012	May 2012	Jun 2012
Total Nitrogen	kg/day	23.01	10.18	35.29	24.59	66.67	16.67	9.46	24.57	24.4	1.20	17.34	35.70	23.80	31.6	22.2	21.5	66.7
Total Phosphorous	kg/day	5.94	4.19	6.85	5.73	8.46	8.46	4.14	4.97	6.09	4.80	6.76	6.18	4.65	6.3	3.7	5.8	6.9

7 Characterisation Values - Oxidation Ponds Outlet Comparison 2008-12 Results

Parameter	Units	2008-09	2009-10	2010-11	2011-12
		Median	Median	Median	Median
cBOD5	g/m3	22.50	21	16	33.5
SS	g/m3	81.50	100	49	90
TP	g/m3	5.95	5.9	4.8	3.55
Total Ammonia	g/m3	15	0.088	8	0.235

8 Combined Summer Mass Load - Huntly + Ngaruawahia

Parameter	Consent value	Actual Value	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11
		Median						
Huntly Total Nitrogen	kg/day		21.52	34.57	22.17	32.17	25.11	30.16
Ngaruawahia Total Nitrogen	kg/day		17.34	35.70	23.80	31.6	22.2	21.5
Combined Total Nitrogen	kg/day	57	38.86	70.28	45.97	63.77	47.32	51.62
Huntly Total Phosphorus	kg/day		10.16	9.79	5.62	8.10	7.48	10.77
Ngaruawahia Total Phosphorus	kg/day		6.76	6.18	4.65	6.3	3.7	5.8
Combined Total Phosphorus	kg/day	17.3	15	16.92	10.27	14.42	11.18	16.56