

951126 Huntly Wastewater Sewage Treatment Discharge. Reporting Period 2008/09

This consent authorises the Consent Holder to: discharge up to 6000 cubic metres per day of treated domestic wastewater from oxidation ponds and newly constructed wetland and gravel bed filter treatment system, into the Waikato River, in the vicinity of the Waikato River and East Mine Road, Huntly.

	Conditions	Comply Yes/No	Comments
1	The discharge shall be in general accordance with the application for this resource consent and the document titled "Assessment of Environmental Effects – Huntly Oxidation Ponds" prepared by Beca Steven, dated 6 April, 1998, and as identified in the resource consent conditions below.	Yes	The discharge is in general accordance with the details submitted with the consent application.
2	The consent holder shall be responsible for all sub-contracted operations, and must ensure sub-contractors are made aware of the relevant conditions of this resource consent and ensure compliance with those conditions.	Yes	It is normal procedure that any contracted organisations be advised of the relevant conditions of the resource consent if it is deemed their work may potentially negatively affect the capacity of the plant to meet conditions of the consent.
3	The treatment plant shall be managed and operated by an appropriately trained operator.	Yes	The treatment plant is managed and operated by appropriately trained and experienced engineers and operators.
4	The maximum discharge rate shall not exceed 6000 cubic metres per day.	No	<p>Non compliance with this condition in July & August.</p> <p>During this period the North Island experienced significant and unusually heavy wet weather storm events that contributed to infiltration beyond the normal flow range of the treatment plant and also localised flooding into the WWTP wetlands from the surrounding area.</p> <p>The maximum average monthly flow was 4421 cubic metres per day over the total reporting period.</p> <p>The average monthly outflows for the reporting period are considerably higher than the previous period. This is to be expected as the 07-08 period was very dry.</p> <p>Maximum recorded daily total flow was 7152m³/day in Aug 2008</p>

	Conditions	Comply Yes/No	Comments
			<p>The 90th Percentile Maximum was 6474m³/day</p> <p>The 90th Percentile Average Daily flow was 3744m³/day</p> <p>The Median maximum daily flow was 4145m³/day</p> <p>The Median Average daily flow was 2358cubic metres per day over the reporting period.</p>
5	The consent holder shall provide easy access for the measurement of flow and quality of the discharge to the constructed wetland and from the constructed wetland.	Yes	Good access is provided to enable measurements and samples to be collected.
6	The consent holder shall ensure that the wetlands do not support populations of plant or animal pests (including insects) at levels that may cause nuisance or annoyance to neighbouring property owners.	Yes	Checks are made fortnightly of the treatment system and any potential problems noted. There have been no potential issues identified during the 2008-09 year relating to this condition. No concerns have been raised from adjacent property owners.
7	Any erosion control works that become necessary as a result of the exercise of this consent shall be undertaken as directed at the expense of the consent holder to the satisfaction of the Waikato Regional Council.	Yes	There has been no erosion works considered necessary during the reporting period.
8	The wetland system shall be designed, operated and maintained to the satisfaction of the Waikato Regional Council. The design and operation shall be in accordance with accepted wastewater engineering practise and shall be capable of treating 6000 cubic meters of sewage per day during a 1 in five year storm event.	Yes	<p>The wetland system has been operated and maintained in accordance with the management plan approved by Environment Waikato in October 2001.</p> <p>The Wetland continues to contribute to the overall improvement of the discharge quality. The attached data tables demonstrate there is a general quality improvement from the pond 2 outlet and the wetland outlet sample values recorded. The wetland also contributes to significant buffering of the final discharge pH thereby ensuring the toxic NH₃ form of the Ammonia in the discharge plume to the river remains very low.</p> <p>Ongoing maintenance of the wetland plants and bund plus sludge removal remains problematic due to the physical limitations of the site. Removal and replacement of old biomass and desludging are required if the wetlands are to remain long term.</p>

	Conditions	Comply Yes/No	Comments
9	The consent holder shall construct and place a sign in the vicinity of the discharge to the Waikato River, in such a way that it is conspicuous to river users, advertising of the presence of the wastewater discharge and warning against the use of the location for swimming.	Yes	A prominent sign is erected advertising the presence of the discharge and warning to swimmers and other members of the public.
10	<p>The following limits shall apply to the discharge to the Waikato River prior to, and including, 30 November 2000 (refer Note 1).</p> <ul style="list-style-type: none"> a) The five-day biochemical oxygen demand of the discharge shall not exceed 161 kilograms per day. b) The five-day biochemical oxygen demand shall not exceed 50 grams per cubic metre for 90 percent of samples taken over a year. c) The suspended solid load of the discharge shall not exceed 480 kilograms per day. d) The mean suspended solid load of the discharge shall not exceed 150 grams per cubic metre for 90 percent of samples taken over a year. e) The median faecal coliform bacteria density shall not exceed 5×10^4 per 100 ml based on not fewer than five samples taken over not more than a 30-day period. <p>Notwithstanding the stated limits, the consent holder shall make all reasonable and practical efforts to ensure that final effluent quality is maximised within the capabilities of the current treatment system.</p>		Condition 10 of the resource consent was superseded by condition 11 as from 1 st December 2000 and therefore no longer applicable.

	Conditions	Comply Yes/No	Comments
11	<p>The following limits shall apply to the discharge to the Waikato River after 30 November 2000 (refer Note 1):</p> <p>a. Not more than one sample in each preceding ten samples shall exceed 20 grams per cubic metre Biochemical Oxygen Demand,</p> <p>with a maximum in any one sample being 50 grams per cubic metre</p>	<p>No</p> <p>Yes</p>	<p>Non-compliant BOD. Not greatly changed from the previous reporting period.</p> <p>The 90th Percentile target was exceeded at 24.0 g/m³ up from 21.8 g/m³ in 07-08. Nine from 20 samples taken over the reporting period exceeded the limit of 20 g/m³.</p> <p>The maximum limit was not exceeded at 26 g/m³ in February 2009, down from 47 g/m³ in 07-08</p> <p>Minimum 7.3 g/m³,</p> <p>Mean 16.1 g/m³, down from 17.3 g/m³ in 07-08</p> <p>Median value for the 2008/09 year was 14.5 g/m³ up from 13.5 g/m³ in 07-08</p>
	<p>b. Not more than one sample in each preceding ten samples shall exceed 30 grams per cubic metre Suspended Solids,</p> <p>with a maximum in any one sample being 50 grams per cubic metre.</p>	<p>No</p> <p>No</p>	<p>Non-compliant SS. The 90th Percentile target was exceeded at 65.3 g/m³, however this was down from 86.1 g/m³ in 07-08</p> <p>Maximum recorded value was 81 g/m³ in January 2009 when flows were the lowest monthly average for the reporting period. Much the same as the 89 g/m³ in 07-08</p> <p>Minimum 9.6 g/m³,</p> <p>Mean 43.2 g/m³, down from 48.3 g/m³ in 07-08</p> <p>Median value for the 2008/09 year was 42 g/m³, much the same as the 41.5 g/m³ in 07-08</p>

	Conditions	Comply Yes/No	Comments
	<p>c. The concentration of faecal coliforms in the discharge shall not exceed a daily median of 3000 MPN (Most Probable Number) per 100 millilitres .</p> <p>The median shall be determined from five samples collected during 30 consecutive days, or from any other 5 consecutive samples taken as per condition 14 of this consent</p>	No	<p>Non-compliant FC. Considerable improvement on previous year.</p> <p>Median value for the samples taken as per condition 14 was 3300 MPN per 100mL down from 7300 g/m3 in 07-08</p> <p>Median value for the 2008/09 year was 1600 MPN/100mL down from 2550 in 07-08</p> <p>The 90th Percentile value was 5120. This is an order of magnitude improvement on the previous year.</p> <p>Minimum 100 MPN/100mL in July.</p> <p>Mean 2376 MPN/100mL.</p> <p>Maximum recorded FC value was 7200 MPN/100mL in February. This is an order of magnitude improvement on the previous year.</p>
	<p>d. Not more than one sample in each preceding ten samples shall exceed 5 grams per cubic metre Dissolved Reactive Phosphorus,</p> <p>with a maximum in any one sample being 10 grams per cubic metre.</p>	<p>No</p> <p>Yes</p>	<p>Non-compliant DRP. Considerable improvement on previous year.</p> <p>The 90th Percentile value was 6.31 g/m3 down from 10.8 g/m3 in 07-08</p> <p>Maximum recorded value did not exceed the maximum limit at 6.4 g/m3 in February, down from 11 g/m3 in 07-08</p> <p>Minimum 1.3 g/m3,</p> <p>Mean 4.45 g/m3, down from 6.9 g/m3 in 07-08</p> <p>Median value for the 2008/09 year was 4.85 g/m3</p>

	Conditions	Comply Yes/No	Comments
	e. Not more than one sample in each preceding ten samples shall exceed 5 grams per cubic metre Nitrate Nitrogen (NO ₃ -N), with a maximum in any one sample being 8 grams per cubic metre.	Yes	Compliant NO3-N Results indicate that NO3 within the treatment system are at very low levels. The 90 th Percentile value was 1.00 g/m3 much the same as the 0.91 g/m3 in 07-08
	f. Not more than one sample in each preceding ten samples shall exceed 10 grams per cubic metre Total Ammoniacal Nitrogen with a maximum in any one sample being 15 grams per cubic metre.	Yes Yes	Compliant. This improved upon the previous year. The 90 th Percentile value was 8.78 g/m3, down from 12.8 g/m3 in 07-08 Maximum recorded value was 12 g/m3 in March which was the only sample that exceeded the 90 percentile limit of 10 g/m3. Down from 14 g/m3 in 07-08 where a value 10 g/m3 or greater was recorded in four separate months. Minimum 1.5 g/m3, Mean 4.49 g/m3, down from 6.8 g/m3 in 07-08 Median value for the 2008-2009 year was 3.8 g/m3.
	g. The pH of the discharge shall not be less than 6 and no greater than 9 pH units. Not withstanding the stated limits, the consent holder shall make all reasonable and practical efforts to ensure that final effluent quality is maximised within the capabilities of the current treatment system.	Yes Yes	Compliant. The average value recorded was 7.17. The plant has been upgraded, physical works began during the 2007-08 year and were largely completed in autumn 2009. Mechanical elements of the upgrade were still not completely operational at end of June 2009. This was largely due to rag binding of the rotary parts and is expected to settle down once the new pond circulation currents stop lifting old material from the pond bed.
12	The consent holder shall notify the Waikato Regional Council as soon as practicable and as a minimum requirement within 24 hours of the consent holder becoming aware of the limits specified in conditions 10 and 11 of this resource consent being exceeded and of any accidental discharge, plant breakdown, or other circumstances which are likely to result in the limits of this resource	Partial	Contact with representatives of the Waikato Regional Council has been regular and proactive. Specific reporting of consent limit exceedences has not been practical.

	Conditions	Comply Yes/No	Comments															
	consent being exceeded.		<p>No breakdown of equipment has threatened the capacity of the plant to treat wastewater, no raw wastewater has been released.</p> <p>Treatment quality has generally improved on the previous year.</p>															
13	<p>Prior to and including 30 April 2001, and subject to condition 23, the consent holder shall characterise the quality, quantity and variability of the discharge to the satisfaction of the Waikato Regional Council. To this end, the consent holder shall, unless otherwise required to do so by the Waikato Regional Council in writing following consultation with the consent holder, characterise, and report to the Waikato Regional Council at least in 3 monthly intervals, on the discharge as follows:</p> <table border="0" data-bbox="143 612 1057 895"> <thead> <tr> <th data-bbox="143 612 232 635">Frequency</th> <th data-bbox="264 612 667 635">Sample Type</th> <th data-bbox="698 612 788 635">Parameter</th> </tr> </thead> <tbody> <tr> <td data-bbox="143 651 210 673">Daily</td> <td data-bbox="264 651 609 673">Daily total outflow from oxidation ponds.</td> <td data-bbox="698 651 766 673">Volume</td> </tr> <tr> <td data-bbox="143 676 210 699">Weekly</td> <td data-bbox="264 676 577 699">Single sample/test in oxidation ponds.</td> <td data-bbox="698 676 855 699">Dissolved oxygen.</td> </tr> <tr> <td data-bbox="143 702 210 724">Monthly</td> <td data-bbox="264 702 609 746">Single sample/test in outlet from oxidation Ponds.</td> <td data-bbox="698 702 1057 849">Biochemical Oxygen Demand, Suspended Solids, Dissolved Reactive Phosphorus, Total Phosphorus, Total Ammoniacal Nitrogen, Total Kjeldahl Nitrogen, Nitrate Nitrogen, PH, Temperature, Faecal Coliform, E-coli</td> </tr> <tr> <td data-bbox="143 852 232 874">Quarterly</td> <td data-bbox="264 852 676 896">Single sample/test in outlet from oxidation ponds To begin once treatment of landfill leachate begins.</td> <td data-bbox="698 874 766 896">Zinc, Iron</td> </tr> </tbody> </table>	Frequency	Sample Type	Parameter	Daily	Daily total outflow from oxidation ponds.	Volume	Weekly	Single sample/test in oxidation ponds.	Dissolved oxygen.	Monthly	Single sample/test in outlet from oxidation Ponds.	Biochemical Oxygen Demand, Suspended Solids, Dissolved Reactive Phosphorus, Total Phosphorus, Total Ammoniacal Nitrogen, Total Kjeldahl Nitrogen, Nitrate Nitrogen, PH, Temperature, Faecal Coliform, E-coli	Quarterly	Single sample/test in outlet from oxidation ponds To begin once treatment of landfill leachate begins.	Zinc, Iron		Condition no longer applicable.
Frequency	Sample Type	Parameter																
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Quarterly	Single sample/test in outlet from oxidation ponds To begin once treatment of landfill leachate begins.	Zinc, Iron																
	<p>Annual 5 tests over 30 day continuous period, during February-March, in discharge from oxidation Ponds.</p>		<p>Biochemical Oxygen Demand, Suspended Solids, Dissolved Reactive Phosphorus, Total Phosphorus, Total Ammoniacal Nitrogen, Total Kjeldahl Nitrogen, Nitrate Nitrogen, PH, Temperature, Faecal Coliform, E-Coli.</p>															
14	<p>After 30 November 2000, and subject to condition 21, the consent holder shall characterise the quality, quantity and variability of the discharge to the satisfaction of the Waikato Regional Council. To this end, the consent holder shall, unless otherwise required to do so by the Waikato Regional Council in writing following consultation with the consent holder, characterise, and report to the Waikato Regional Council at least in 3 monthly intervals, on the discharge as follows:</p>	Partial	<p>Data is recorded for Environment Waikato, however collation and supply of data in quarterly reports has not been achieved. All the recorded data is supplied with this annual report in complete form.</p> <p>Water quality sampling is taken at monthly intervals throughout the year resulting in significantly more sample collection and analysis than required.</p>															

Conditions			Comply Yes/No	Comments
Frequency	Sample type	Parameter		
Daily	Daily total outflow from oxidation ponds	Volume	Yes	Zinc and Iron were sampled in June only. PCB's were not sampled. Total PCB values recorded in the Huntly Landfill leachate that is pumped to the wastewater treatment plant were below detectable limits.
Weekly	Single sample/test in oxidation ponds	Dissolved oxygen	Yes	
Monthly	Single sample/test in outlet from rock filter Wetland	Biochemical Oxygen Demand, Suspended Solids, Dissolved	Yes	The monthly Faecal Coli sample for November was not recorded due to a laboratory error. Due to the normal two-week turnaround period in receiving results the problem was not discovered within the month of November.
		Reactive Phosphorus, Total Phosphorus, Total Ammoniacal Nitrogen, Total Kjeldahl Nitrogen, Nitrate Nitrogen, PH, Temperature, Faecal Coliform, E-coli.	Yes	
Quarterly	Single sample/test in outlet from oxidation ponds to begin once treatment of landfill leachate begins.	Zinc, Iron, PCB's	Yes	Where temporary failure of the SCADA telemetry has prevented daily totalisation of the discharge volumes, daily estimates have been provided from the manual site visit record.
Quarterly	Single sample/test in outlet from oxidation ponds	Biochemical Oxygen Demand, Suspended Solids, Dissolved Reactive Phosphorus, Total Phosphorus, Total Ammoniacal Nitrogen, Total Kjeldahl Nitrogen, Nitrate Nitrogen, PH, Temperature, Faecal Coliform, E-coli.	No	
			Yes	
			Yes	
			Yes	
			Yes	
			Yes	
			Yes	
			Yes	
			Yes	
			Yes	
			Yes	
Annual	5 tests over 30 day continuous period, during February –March, in discharge from rock filter/wetland.	Biochemical Oxygen Demand, Suspended Solids, Dissolved Reactive Phosphorus, Total Phosphorus, Total Ammoniacal Nitrogen, Total Kjeldahl Nitrogen, Nitrate Nitrogen, PH, Temperature, Faecal Coliform, E-coli.	Yes	The summer period is clearly the more difficult period to achieve compliance with the performance conditions. There was significant wetland discharge quality improvement demonstrated for DRP and FC results over the 07-08 period. However BOD and SS were not improved.

	Conditions	Comply Yes/No	Comments																					
15	<p>Subject to condition 21, the consent holder shall provide to the Waikato Regional Council and the Tainui Maori Trust Board, within six months of the wastewater treatment plant receiving for treatment, leachate from the Huntly Landfill, a report detailing the following:</p> <p>a Characteristics of untreated leachate, in terms of the following parameters:</p> <table border="0" data-bbox="185 427 913 667"> <tr> <td>Chemical Oxygen Demand</td> <td>Alkalinity</td> <td>Mercury</td> </tr> <tr> <td>Total Ammoniacal Nitrogen</td> <td>Lead</td> <td>Boron</td> </tr> <tr> <td>Dissolved Reactive Phosphorus</td> <td>Zinc</td> <td>Arsenic</td> </tr> <tr> <td>Suspended Solids</td> <td>Nickel</td> <td>Sulphate</td> </tr> <tr> <td>Nitrate Nitrogen</td> <td>Chloride</td> <td></td> </tr> <tr> <td>PH</td> <td>Dioxin</td> <td></td> </tr> <tr> <td>Volatile Organic Compounds</td> <td>Semi-volatile Organic Compounds</td> <td></td> </tr> </table> <p>b Characterisations of the parameters listed in i) above, in the discharge from the rockfilter/wetland, prior to establishment of leachate treatment in the Huntly Wastewater Treatment Plant.</p> <p>c Characterisations of the parameters listed in i) above, in the discharge from the rockfilter/wetland, after establishment of leachate treatment in the Huntly Wastewater Treatment Plant.</p> <p>d Based on points (i), (ii) and (iii) above, an analysis of the effect the leachate is having on the operation of the sewage treatment system, and the effect the leachate is having on the quantity and characteristics of the discharge to the Waikato River.</p> <p>Characterisations should be based on tests from at least two samples, with tests also carried out on a third sample, if results for any parameter in the first two samples, show a greater than 50 percent variation. The report shall be prepared to the satisfaction of the Waikato Regional Council.</p>	Chemical Oxygen Demand	Alkalinity	Mercury	Total Ammoniacal Nitrogen	Lead	Boron	Dissolved Reactive Phosphorus	Zinc	Arsenic	Suspended Solids	Nickel	Sulphate	Nitrate Nitrogen	Chloride		PH	Dioxin		Volatile Organic Compounds	Semi-volatile Organic Compounds		Yes	A report has previously been completed and submitted to Environment Waikato to satisfy this condition. It is believed that the relatively small quantity of leachate would have no measurable effect on the treatment plant receiving waters.
Chemical Oxygen Demand	Alkalinity	Mercury																						
Total Ammoniacal Nitrogen	Lead	Boron																						
Dissolved Reactive Phosphorus	Zinc	Arsenic																						
Suspended Solids	Nickel	Sulphate																						
Nitrate Nitrogen	Chloride																							
PH	Dioxin																							
Volatile Organic Compounds	Semi-volatile Organic Compounds																							
16	<p>In conjunction with consent number 100928, the consent holder shall provide the Waikato Regional Council a management plan which details the operational procedures that will be implemented to achieve compliance with the conditions of this resource consent. This plan shall be lodged with the Waikato Regional Council by 30 September 1999 for written approval, and shall be reviewed and</p>	Partial	<p>The original document was approved in October 2001 after amendments incorporated and again reviewed in 2004. The document review was scheduled for December 2006, but had not been completed.</p> <p>The upgrade project has produced a draft management plan that has been</p>																					

	Conditions	Comply Yes/No	Comments
	<p>updated as a minimum by 1 December 2002 and 1 December 2006. The plan shall address, but may not be limited to, the following:</p> <ul style="list-style-type: none"> a. A description of the entire treatment system facility. b. A description of routine inspection and maintenance procedures to be undertaken with respect to the treatment plant and discharge structure. c. An outline of the methods to be utilised to monitor the treatment plant in an operational sense including: <ul style="list-style-type: none"> (i) monitoring of influent waste water (ii) monitoring of treatment performance specific management procedures for the efficient functioning of the d. Oxidation ponds and constructed wetland. e. Procedures for recording routine maintenance and all repairs that are undertaken. f. Contingency measures in place to deal with unusual events including odour events. g. Other actions necessary to comply with the requirements of this resource consent. h. Procedures for improving and/or reviewing the management plan. <p>A copy of the management plan shall be supplied to the Tainui Maori Trust Board within one month of its completion.</p>		<p>submitted with the new consent application documentation by Mr Cliff Boyt.</p> <p>A copy of the updated management plan will be distributed to the specified party within one month of Environment Waikato approval.</p>
17	<p>The consent holder shall manage the wastewater treatment and discharge in accordance with the management plan referred to in condition 16 above. Any changes to the management plan shall be advised to the Waikato Regional Council in writing after consultation between the consent holder and the Waikato Regional Council.</p>	Yes	<p>The treatment system is currently being managed in accordance with the revised management plan approved in 2004 and modified requirements of the new treatment elements commissioned as part of the upgrade.</p>
18	<p>The consent holder shall provide to the Waikato Regional Council and the Tainui Maori Trust Board, a written monitoring report by 30 September each year that this consent is current. As a minimum this report shall include the following:</p>	Yes	<p>This report for period July 2008 to June 2009 and the attached data tables meet this condition.</p>
	<ul style="list-style-type: none"> a. A summary of the monitoring results required by conditions 13 and 14 of this resource consent and a critical analysis of the information in terms of compliance and environmental effects. 		<p>Data provided includes Monthly and Annual summaries</p>

	Conditions	Comply Yes/No	Comments
	b A comparison of data with previously collected data identifying any emerging trends.		This report compares current period data with the previous period
	c Comment on compliance with the conditions of this resource consent.		This report and the attached data tables clearly describes compliance results
	d Any reasons for non-compliance or difficulties in achieving compliance with the conditions of this resource consent		Flow exceedence during winter have been due to higher rainfall and infiltration than the plant consent limit Nutrient exceedences are due to insufficient treatment performance. The upgrade is addressing this and it is expected that continued improvement gains will occur.
	e Any works that have been undertaken to improve the environmental performance of the treatment system or that are proposed to be undertaken in the up-coming year to improve the environmental performance of the treatment system.		The treatment upgrade steps implemented include desludging of pond one, addition of automatic primary screening, additional influent aeration, curtains in the primary pond to prevent short circuiting and a separate septage receiving system to reduce influent load.
	f Recommendations on alterations to the monitoring required by conditions 13 and 14 of this resource consent.		We recommend the cessation of quarterly zinc, iron and PCB testing required by condition 14.
	g Any other issues considered important by the consent holder.		
19	In conjunction with consent number 100972 (authorising discharge of treated domestic wastewater from the Ngaruawahia Wastewater Treatment Plant) the consent holder shall provide to the Waikato Regional Council and the Tainui Maori Trust Board, two Nutrient Reports, the first to be completed by 30 September 2003, and the second by 30 September 2008, detailing the following: a A detailed analysis of nutrient loads (nitrogen and phosphorus) discharged to the Waikato River from the Huntly and Ngaruawahia Wastewater Treatment Plants, over the time of the respective discharge consents. b An analysis of trends detailed in a), in relation to the Waikato Regional Council target for a 30% reduction in nutrients in the Waikato River in the growing season (January-May), together with an assessment of	N/A	A nutrient report was submitted during the consent application process. The data table annual summary shows the nutrient load discharge average monthly values for Total Nitrogen and Total Phosphorous. Total Nitrogen; The 90 th Percentile value was 27.7 kg/day Median value for the 2008/09 year was 21.5 kg/day Maximum recorded monthly total was 29.6 kg/day in June 09

	Conditions	Comply Yes/No	Comments
	<p>progress made towards reducing nutrients in the Huntly and Ngaruawahia wastewater discharges by 30% during the growing season.</p> <p>c An assessment of the need for further nutrient reduction in the Huntly and Ngaruawahia wastewater discharges based on a) and b) above.</p> <p>d A review of current developments in nutrient reduction technology that could be appropriate for the Huntly and Ngaruawahia Wastewater Treatment Plants.</p> <p>e A review of potential for reduction of nutrient discharge to the Waikato River from the Huntly and Ngaruawahia Wastewater Treatment Plants, including, but not limited to, an assessment of the land disposal option, which shall include identification of possible sites for land disposal, and environmental and economic cost/benefit analyses of the land disposal option.</p> <p>f Recommendations for action in the light of a) to e) above.</p> <p>The Nutrient Reports are to be completed to a standard acceptable to the Waikato Regional Council.</p>		<p>Minimum 18.5 kg/day in November 08</p> <p>Mean 22.8 kg/day</p> <p>Total Phosphorous;</p> <p>The 90th Percentile value was 14.1 kg/day</p> <p>Median value for the 2008/09 year was 11.5 kg/day</p> <p>Maximum recorded monthly total was 20.6 kg/day in June 08</p> <p>Minimum 7.0 kg/day in November 08</p> <p>Mean 11.3 kg/day</p>
20	<p>In conjunction with consent number 100928, the consent holder shall maintain and keep current a complaints register for complaints regarding all aspects of operations at the wastewater treatment plant site, and the discharge of treated wastewater to the Waikato River, received by the consent holder. The register shall record:</p> <p>a The date, time and duration of the incident that has resulted in a complaint.</p> <p>b The location of the complainant when the incident was detected,</p> <p>c The possible cause of the incident.</p> <p>d The weather conditions and wind direction at the site when the incident allegedly occurred, if significant to the complaint (for example if an odour incident occurs).</p> <p>e Any corrective action undertaken by the consent holder in response to the complaint.</p> <p>The register shall be available to the Waikato Regional Council at all reasonable times. Complaints which may indicate non-compliance with the conditions of this resource consent shall be forwarded to the Waikato Regional Council within</p>	Yes	<p>The Waikato District Council Corporate Services Customer First Team has received no complaints regarding the operation of the plant or discharge of treated effluent from the site during 2008/09.</p>

	Conditions	Comply Yes/No	Comments
	5 days of the complaint being received.		
21	<p>The Waikato Regional Council may in the period of six months ending 1 December, 2002 and 1 December every two years thereafter, while this consent is current, serve notice on the consent holder under section 128 (i) of the Resource Management Act 1991, of its intention to review the conditions of this resource consent for the following purposes:</p> <p>a To review the effectiveness of the conditions of this resource consent in avoiding or mitigating any adverse effects on the environment from the exercise of this resource consent and if necessary to avoid, remedy or mitigate such effects by way of further or amended conditions.</p> <p>b If necessary and appropriate, to require the holder of this resource consent to adopt the best practicable option to remove or reduce adverse effects on the surrounding environment due to the discharge.</p> <p>c To review the adequacy of and the necessity for monitoring undertaken by the consent holder.</p>	Yes	No reviews were undertaken during the reporting period
22	The consent holder shall pay to the Waikato Regional Council any administrative charge fixed in accordance with section 36 of the Resource Management Act 1991, or any charge prescribed in accordance with regulations made under section 360 of the Resource Management Act.	Yes	