

Appendix 1
Current Consent

DISCHARGE PERMIT

Pursuant to Section 105 of the Resource Management Act 1991, the Otago Regional Council grants consent to:

Name: Clutha District Council

Address: 1 Roscbank Terrace, Balclutha

To discharge up to 680 cubic metres per day under normal flow and up to 1,020 cubic metres per day under wet weather conditions into the outflow channel of Lake Waihola

for the purpose of disposing of treated sewage from Waihola township.

Location: at the discharge point adjacent to Titri Road, Waihola:

Map reference: NZMS 260 H45:864-644

Legal description of land adjacent to point of discharge:
Sec 8/10 Pts II, 1 or 12 Blk 12

For a term expiring on 1 September 2017, subject to the following conditions:

1. Within three months of the granting of this permit, the consent holder shall prepare and forward to the Consent Authority an Operations and Management Manual for the treatment and disposal system to ensure its effective and efficient operation at all times. The system shall be operated in accordance with this manual, which may be updated as appropriate. The manual shall include:
 - (i) a brief description of the treatment system, including a site map indicating the location of the treatment system, discharge location and monitoring sites;
 - (ii) key operational matters, including dissolved oxygen monitoring, weekly and monthly maintenance checks;
 - (iii) monitoring and reporting procedures;
contingency plans for system malfunction and breakdowns for each of the oxidation pond, wetland and the outfall disposal system;
contingency plans for maintaining effluent quality during periods of peak population numbers;
 - (v) population numbers;
 - (vi) a complaints and system malfunctions recording system; and
 - (vii) details of the measures to be taken to meet the quality of discharge set out in condition 4.

The record of complaints and malfunctions shall be made available to the Consent Authority on request. At all times the consent holder shall ensure that the Consent Authority has a copy of the up to date Operations and Management Manual.

- 2.(a) Within one month of the granting of this consent, the effluent from the treatment system shall only be discharged into the Lake Waihola outflow channel on the latter half of the incoming tide and the initial half of the outgoing tide.



- (b) Discharge volumes, times and tidal state at the time of discharge shall be recorded and the information forwarded to the Consent authority at six-monthly intervals together with the monitoring required under condition 3.
 - (c) The consent holder shall undertake an investigation into the options for minimising the backflow of effluent into Lake Waihola. This investigation shall specifically assess the possibility of reducing the period of time effluent is discharged. The consent holder shall provide a final report on this investigation to the Consent Authority prior to the expiry of this consent. The report shall detail the time frame for implementing any proposed changes to the disposal regime.
- 3.(a) In February, May, August and November of each year (or as otherwise approved by the Consent Authority), the consent holder shall collect representative samples of the final wastewater effluent prior to discharge to the Lake Waihola outflow channel.

These samples shall be analysed for:

- Five day biological oxygen demand (BOD₅);
 - Total suspended solids;
 - pH;
 - Faecal coliforms;
 - Ammoniacal nitrogen;
 - Total Nitrogen.
 - Total phosphorus;
- (b) The analytical sampling results shall be reported in writing to the Consent Authority before the end of the month following the collection of the samples together with:
 - (i) an estimate of the daily (24 hour) effluent flow (m³/day) for the day of sampling; and
 - (ii) a summary of the weekly dissolved oxygen readings recorded adjacent to the outlet of the oxidation pond during the preceding three month period.
- 4.(a) Until 1 May 2004 effluent discharged to the Lake Waihola outflow channel shall comply with the following criteria:

pH: range 6.5 – 9.0
 Dissolved Oxygen: not less than 2 g/m³ (as an average of any five consecutive weekly measurements taken at approximately 9.00 a.m.)

<i>Parameter</i>	<i>Rolling geometric mean not to exceed¹</i>	<i>No sample result to exceed</i>
BOD ₅ (g/m ³)	50	80*
Total suspended solids (g/m ³)	100	150*
Ammoniacal nitrogen (g/m ³)	20	35
Total phosphorus (g/m ³)	12	15
Faecal coliforms (cfu/100ml)	100,000	250,000

¹ Based on the results of any four consecutive three-monthly self-monitoring rounds
 * Except where the consent holder can demonstrate that a higher value is the result of increased algal growth during summer

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- (b) From 1 May 2004 effluent discharged to the Waipori River shall comply with the following criteria:

pH range 6.5 – 9.0
Dissolved Oxygen: not less than 2 g/m³ (as an average of any five consecutive weekly measurements taken at approximately 9.00 a.m.)

<i>Parameter</i>	<i>Rolling geometric mean not to exceed¹</i>	<i>12-month mean not to exceed</i>	<i>No sample result to exceed</i>
BOD ₅ (g/m ³)		30	50
Total suspended solids (g/m ³)		35	80
Ammoniacal nitrogen (g/m ³)		20	35
Total phosphorus (g/m ³)		12	15
Faecal coliforms (cfu/100ml)		1,000	100,000

¹ Based on the results of any four consecutive three-monthly self-monitoring rounds

- (c) The consent holder shall advise the Consent Authority within seven days of receiving any sampling results that exceed any upper limits set by this condition, including a statement of the likely cause of the exceedance and any remedial action that has been undertaken or is to be undertaken.

The consent holder shall also arrange for resampling/retesting of the discharge parameter(s) in breach of the consent limits (within 7 days of receiving any results that exceed any upper limits set by this condition) and forward the results to the Consent Authority upon receipt.

5. The discharge to the Waipori River shall not give rise to the production of any conspicuous oil or grease films, scums or foams, or floatable or suspended materials.
6. There shall be no odour emission resulting from the consent holder's activities that is offensive or objectionable to such an extent that it has an adverse effect on the environment beyond the consent holder's property.
7. All sampling techniques employed in respect of the conditions of this consent shall be acceptable to the Consent Authority. All sample analysis carried out in connection with the consent must be performed in an IANZ registered laboratory or otherwise as approved by the Consent Authority.
8. Within one month of the granting of this consent, the consent holder shall place and maintain appropriate signs on the riverbank in the vicinity of the outfall to the satisfaction of the Consent Authority. The signs shall:

Provide clear identification of the location and nature of the discharge and the risk to public health at times due to the presence of blue green algae (cyanobacteriae) and at all times from bathing in the vicinity of the discharge; and be visible to the public visiting the area.

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9. At yearly intervals after the first year of exercise of this permit, the consent holder may, pursuant to Section 127 of the Resource Management Act 1991, apply to the Consent Authority for a review of conditions 2 and 3 for the purpose of determining whether the frequency of sampling, parameters analysed and monitoring required under these conditions should be changed.
10. The Consent Authority may in accordance with Section 128 and 129 of the Resource Management Act serve notice on the consent holder of its intention to review, amend, delete or add to the conditions of this consent within three months of each anniversary date of this consent, or of receiving any monitoring results, for the following purposes:
 - (a) To deal with any adverse effect on the environment which may arise from the exercise of this consent and which it is appropriate to deal with at a later stage, or which become evident after the date of commencement of the consent, or
 - (b) To adopt the best practicable option to remove or reduce any adverse effect on the environment, or
 - (c) To comply with the requirements of a relevant rule in an operative regional plan, or
 - (d) To amend the monitoring programme to be undertaken if the record of monitoring indicates that the monitoring programme is inappropriate, or
 - (e) To review conditions of this consent for the purposes of reducing the ammonia input to the receiving environment, should investigations in the future indicate this is appropriate.

Issued at Dunedin this 28th day of March 2003



Marian Weaver
Manager Consents
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