

CONSENT MONITORING REPORT



Your Community Partner

Consent Name	Te Kauwhata Wastewater Treatment System
Consent No.	940355
Year	1 July 2010 – 30 June 2011
Date	22 September 2011
File No.	USV03 / 55 06 19M

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Te Kauwhata Wastewater Treatment System 1 July 2010 – 30 June 2011

The Waikato District Council holds resource consent (940355) to discharge up to 1080 cubic metres of treated wastewater per day from the Te Kauwhata wastewater treatment plant to Lake Waikare.

A review of the consent conditions during the 2010-2011 reporting year indicated that the treatment system is meeting the water quality parameters of the resource consent and is having no more than a minor environmental effect.

Discharge water quality parameters generally remained the same as the previous reporting period.

The maximum consented discharge flow was exceeded regularly during periods of heavy rainfall. The maximum consented discharge flow was exceeded regularly in July, August and Sept 2010 and for short durations in March, April, May and June during the reporting period.

The maximum daily flow was 1874 cubic metres per day in June 2011. This corresponded to a major rainfall event. The median was 1611 cubic metres per day over the total reporting period. This shows that infiltration is still a major problem and will require ongoing work. We have budgeted a project to address this in 2012/2013.

The overall performance picture has remained good with improvement in median recorded values for suspended solids and ammoniacal nitrogen results.

Summary of Nutrient load discharged to Lake Waikare

Total Nitrogen applied to the Wetland

The 90th Percentile value was 10.98 kg/ha/day
Median value for the 2010/11 year was 5.61 kg/ha/day

Total Nitrogen discharged to Lake Waikare

The 90th Percentile value was 10.85 kg/day
Median value for the 2010/11 year was 2.61 kg/day

Total Phosphorous discharged to the Wetland

The 90th Percentile value was 1.58 kg/day
Median value for the 2010/11 year was 1.20 kg/day

Total Phosphorous discharged to Lake Waikare

The 90th Percentile value was 2.63 kg/day
Median value for the 2010/11 year was 2.24 kg/day

Compliant Faecal Coliforms

The 90th Percentile value was 782 MPN/100mL
Median value for the 2011/11 year was 420 MPN/100mL.

Summary of Treatment

The Aquamats system is continuing to provide very good treatment performance.

Pond Outlet Median Performance

cBOD5 < 10
TSS < 30
TN > 15
NH4-N <1
TP <5
FC >1000

Wetland Outlet Median Performance

cBOD5 < 5
TSS < 10
TN < 5
NH4-N >1
TP <5
FC <500

Carleys Transport continues to be monitored weekly for trade waste compliance to encourage reduced fertiliser or stock effluent washings going directly to the treatment plant. Carleys have done considerable work on reducing their suspended solids content. Levels are presently below the trade waste trigger point.

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.

An application to renew the resource consent was made on the 30 January 2008, six months prior to expiry. The application was notified and received a number of submissions in opposition. The application is on hold while consultation continues. Significant progress has been made on this and staff are in a consultation process with the public and WRC on various options for disposal.

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L Larsen
OPERATIONS MANAGER

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R Bax
GENERAL MANAGER
WATER & FACILITIES