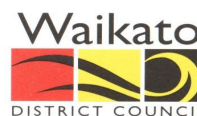


CONSENT MONITORING REPORT



Your Community Partner

| | |
|--------------|-------------------------------------|
| Consent Name | Matangi Wastewater Treatment System |
| Consent No. | 105551 |
| Year | 2009-2010 |
| Date | 6 September 2010 |
| File No. | 55 06 13M / USV03 |

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Matangi Wastewater Treatment System

The Waikato District Council holds resource consent to discharge up to 52 cubic metres of treated sewage effluent per day to ground from the Matangi wastewater treatment system. The consent has an expiry date of 30 September 2021.

The plant flows were non-compliant through the reporting period. Maximum discharge flows were exceeded regularly.

- The Median averaged daily out flow was 43.1 cubic metres per day over the total reporting period up from the previous 33.5 m³/day.
- The Maximum average recorded daily flow total was 124 m³/day in October 2009.
- The 90th Percentile average daily flow was 58.7 m³/day, up from 50.7 m³/day.

Daily flows are calculated from manual readings of the totaliser during regular site visits. As this is not calculated daily it may not accurately report the daily peaks. The flow meters are mechanical and periodically subject to organic blockage and wear. They will be replaced with magnetic flow meters in the 2010-2011 period and connected to the telemetry recording system so that daily totals will be recorded and causes of high flow can be better assessed. A source of high flows has been identified and staff are working with property owners to address the infiltration of storm water to the sewer system.

Overall nutrient removal for the reporting period July 2009 – June 2010 showed continued good overall treatment performance as a consequence of investments and improvements since 2007.

Estimated Total Nitrogen was reported as 537 kg/yr for the 2009-2010 period. This represents an application rate of 5128 kg/Ha.yr and increased on the previous period. The value is increased by the higher flows experienced.

A comparison of the current period nutrient results for the three sampling bores versus the results for 2007-08 and 2008-09 shows little change in ground water quality results.

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H Cameron
PLANTS ENGINEER

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R J Bax
GENERAL MANAGER
WATER & FACILITIES