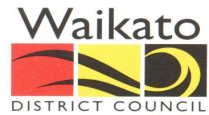


# CONSENT MONITORING REPORT



Your Community Partner

Consent Name	Meremere Wastewater Treatment System
Consent No.	107031 - 107033
Year	2007-08
Date	22 October 2008
File No.	55 06 14M

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## REPORT/COMMENTS

### Meremere Wastewater Sewage Treatment Discharge 2007-08

Resource consent 951126 authorises the Waikato District Council to discharge up to 480 cubic metres per day of treated domestic wastewater from the Meremere oxidation pond and wetland system to the Waikato River. The current consent came into effect August 2003.

The Meremere sewage wastewater treatment system generally showed a further decrease in environmental performance during the 2007-08 year, when compared to that of the 2006-07. An ongoing sampling programme has indicated that environmental compliance with the water quality parameters in the discharge was not achieved. The non-compliances associated with the consent included:

- Partially-compliant TKN. The median value was 12 g/m<sup>3</sup>. The 90<sup>th</sup> Percentile value was 15.8 g/m<sup>3</sup>. Minimum 5.6 g/m<sup>3</sup>, Mean 12.5 g/m<sup>3</sup>. Maximum recorded value was 20 g/m<sup>3</sup> Mar 08.
- Partially-compliant NH<sub>4</sub>-N. The median value was 0.365 g/m<sup>3</sup>. The 90<sup>th</sup> Percentile value was 13.6 g/m<sup>3</sup>. Minimum 0.01 g/m<sup>3</sup>, Mean 3.9 g/m<sup>3</sup>. Maximum recorded value was 14 g/m<sup>3</sup> Jul 07.
- Partially-compliant TP. The median value was 3.8 g/m<sup>3</sup>. The 90<sup>th</sup> Percentile value was 7.3 g/m<sup>3</sup>. Minimum 1.67 g/m<sup>3</sup>, Mean 4.4 g/m<sup>3</sup>. Maximum recorded value was 7.9 g/m<sup>3</sup> Feb 08.
- Non-compliant BOD. The median value was 16 g/m<sup>3</sup>. The 90<sup>th</sup> Percentile value was 26 g/m<sup>3</sup>. Minimum 5 g/m<sup>3</sup>, Mean 19.1 g/m<sup>3</sup>. Maximum recorded value was 46 g/m<sup>3</sup> Oct 07. No value was recorded Aug 07.
- Non-compliant SS. The median value was 93 g/m<sup>3</sup>. The 90<sup>th</sup> Percentile value was 248 g/m<sup>3</sup>. Minimum 7 g/m<sup>3</sup>, Mean 120 g/m<sup>3</sup>. Maximum recorded value was 280 g/m<sup>3</sup> Mar 08. High suspended solids were associated with extensive cover of the WWTP ponds by algal bloom.

- Partially-compliant E Coli. The median value was 405 MPN/100mL. The 90<sup>th</sup> Percentile value was 120000 MPN/100mL. Minimum <1 MPN/100mL, Mean 50000 MPN/100mL. Maximum recorded value was 360000 MPN/100mL Mar 08. High E.Coli were associated with extensive cover of the WWTP ponds by algal bloom reducing UV effectiveness.
- Partially-compliant Faecal Coli. The median value was 405 MPN/100mL. The 90<sup>th</sup> Percentile value was 73500 MPN/100mL. Minimum <1 MPN/100mL, Mean 50000 MPN/100mL. Maximum recorded value was 420000 MPN/100mL Mar 08. High E Coli were associated with extensive cover of the WWTP ponds by algal bloom reducing UV effectiveness.

The Waikato District Council has engaged the consultant involved in the Te Kauwhata, Raglan, Huntly and Ngaruawahia WWTP upgrades to develop an upgrade plan to achieve treatment requirements and compliance with the conditions of consent. The plan is expected in the 2008-09 reporting period. Waikato DC has provided a sum of \$50,000 toward what is likely to be stage I of the upgrade. At the same time an extensive infiltration and ingress investigation into the Meremere wastewater reticulation system is well underway. A significant source has been identified and rectified already.

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H Cameron  
**Plants Engineer**

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R J Bax  
**Community Assets Group Manager**