

# CONSENT MONITORING REPORT



Your Community Partner

Consent Name	Maramarua Wastewater Treatment System
Consent No.	101961
Year	1 July 2010 – 30 June 2011
Date	26 September 2011
File No.	55 06 22M / USV03

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## REPORT/COMMENTS

### Maramarua Wastewater Treatment System 1 July 2010 to 30 June 2011

The Waikato District Council holds resource consent to discharge up to 6 cubic metres of treated sewage effluent per day to ground from the Maramarua wastewater treatment system. The consent was issued on 2 March 2000 and has an expiry date of 1 December 2014.

At the end of December 2010 the two existing 3.3m<sup>3</sup> septic tanks were replaced with a new 22.5m<sup>3</sup> tank. The seepage vault was also modified to reduce the carry over of solids from the pump to the septic tank. A secondary screen was installed to the new septic tank to minimise solids carry through. The quality of treated wastewater has improved in all parameters.

A sodium bicarbonate dosing system has been added to improve pH and this has been achieving good results from June 2011 onwards.

#### Flows

The old mechanical flow meters were replaced with Magflo meters and data was available from September 2010. There was a period in July/August 2010 where data was not recorded, due to set up problems.

In September/October investigative and remedial work was undertaken to reduce infiltration into the treatment plant.

- Open drains in the area were cleaned to improve drainage.
- Smoke testing was done.
- Roof water at one house flowed into a goldfish pond and overflowed into the sewer system. This was fixed.
- A manhole lid was sealed.
- Old septic tanks abandoned and a new septic tank installed in December 2010.

The houses, associated wastewater pipework and the treatment plant are at the base of the hill that accommodates Hale Transport. During heavy rainfall events, water drains down the hill to the houses and treatment plant area. The area does not drain well and although there are open drains in the area, ground water levels are always high in winter months.

After looking at the design criteria in the Hamilton City Council Development Manual, we believe that the discharge limit of 6m<sup>3</sup>/day for 8 houses is too low. We will make an application to have this consent limit reviewed.

The average daily flow as measured by SCADA was 4.8 m<sup>3</sup>/day. All the daily flows that exceed 6m<sup>3</sup>/day are associated with high rainfall events. Rainfall was obtained from the Maungatawhiri rain gauge (2066) which is 8 kilometers away.

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**L Larsen**  
**OPERATIONS MANAGER**

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**R J Bax**  
**GENERAL MANAGER**  
**WATER & FACILITIES**