

## 101961 Maramarua Wastewater discharge to ground 2008-09

**This consent authorises the Consent Holder to:** Discharge up to 6 cu/m per day of treated domestic sewage into the ground from the Maramarua Wastewater Plant, Maramarua Wastewater Treatment Plant, Kopuku Road – Maramarua. NZMS260 S12 : 059-371

	Conditions	Comply Yes/No	Comments
*	This consent authorises the Consent Holder to: Discharge up to 6 cu/m per day of treated domestic sewage into the ground from the Maramarua Wastewater Plant	Partial	<p>Partial-compliance with this condition.</p> <p>During July and August 2008 the North Island experienced significant and unusually heavy wet weather storm events that contributed to infiltration beyond the normal flow range of the treatment plant.</p> <p>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 flowmeter is mechanical and periodically subject to organic build up and wear. It has not been calibrated.</p> <p>The Median averaged daily out flow was 3.1 cubic metres per day over the total reporting period.</p> <p>Maximum average recorded daily total flow was 15.9 m3/day for the period 25 July through 1 August 2008</p> <p>The 90<sup>th</sup> Percentile average daily flow was 8.5 m3/day</p> <p>The Average of the averaged daily flow was 4.4 cubic metres per day over the reporting period.</p> <p>In order to reduce potential infiltration in the old septic tanks and provide better pre-treatment performance, especially settlement, at the end of this reporting period a project was put in place and started to replace the two existing 3.3 m3 volume septic tanks with a new 22.5 m3. The septage pump vault was also modified to reduce the carry over of solids from the pump to the septic tank. A secondary screen was installed in the new septic tank to minimise solids carry through. It is hoped the new septic tank will reduce daily flows as less groundwater infiltration will occur.</p>

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			To date it seems this may be successful as a comparison of the reporting periods July-Sept 08-09 versus 07-08 and 09-010 shows a significant decrease of the median, 90 <sup>th</sup> percentile and maximum averaged daily recorded flows. The July-September 2008 period was wetter than the others however the results look promising.															
1	The activity authorised by this consent shall be carried out in accordance with the application for this resource consent and as identified in the resource consent conditions below.	Yes	The site activity is carried out in accordance with the information contained in the application.															
2	The upgrading of the sewage treatment system as described in the document titled "Maramarua Wastewater Treatment Plant Upgrade Assessment of Environmental Effects", or any alteration to this description authorised by the Group Manager, Resource Use, Waikato Regional Council, shall be completed and fully operational within twelve months of the granting of this consent.	Yes	The treatment system was upgraded in accordance with the consent condition.															
3	The design and construction of the upgraded sewage treatment system shall be carried out under the supervision of an appropriately experienced registered engineer, retained by the consent holder.	Yes	Experienced staff supervised the design and construction of the upgraded plant.															
4	The consent holder shall retain appropriately experienced personnel to operate and maintain the treatment and disposal system.	Yes	The treatment plant is managed and operated by appropriately trained and experienced engineers and operators.															
5	<p>The consent holder shall retain a suitably qualified and experienced person to compile an Operations Manual for the wastewater treatment and disposal facility. This manual shall address as a minimum the following matters:</p> <ul style="list-style-type: none"> <li>a A description of the treatment and disposal system.</li> <li>b A description of how the treatment and disposal system should be operated and managed (including inspection and monitoring procedures).</li> <li>c A description of the maintenance required for the operation of the system.</li> <li>d A system for recording maintenance undertaken on the treatment and disposal system.</li> </ul> <p>This manual shall be developed to a standard acceptable to the Waikato Regional Council, and a copy shall be provided to the Waikato Regional</p>	Yes	<p>An operation manual supplied by Innoflow Technologies remained suitable during the reporting period. An updated manual that incorporates recent changes will be completed in and supplied to Environment Waikato by 20 November 2009.</p> <p>The sand filter media was replaced at the end of the previous period. Results in the outlet discharge have improved.</p> <table border="1" data-bbox="1234 1252 1839 1433"> <thead> <tr> <th></th> <th>2007-08 <i>Median</i></th> <th>2008-09 <i>Median</i></th> </tr> </thead> <tbody> <tr> <td>SS</td> <td>13.5</td> <td>7.4</td> </tr> <tr> <td>BOD</td> <td>9.5</td> <td>2.4</td> </tr> <tr> <td>Total Ammonia</td> <td>14.0</td> <td>3.3</td> </tr> <tr> <td>TKN</td> <td>15.5</td> <td>5.9</td> </tr> </tbody> </table>		2007-08 <i>Median</i>	2008-09 <i>Median</i>	SS	13.5	7.4	BOD	9.5	2.4	Total Ammonia	14.0	3.3	TKN	15.5	5.9
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	Council within four months of the granting of this resource consent.		NO3-N NO2-N TN DRP TP FC EC	51 4.5 53.5 7.9 7.5 9950 370	34 0.11 38.7 6.0 6.6 615 600
6	The consent holder shall manage and operate the treatment and disposal system in accordance with the Operations Manual described in condition 5 of this consent.	Yes	The site is managed and operated in accordance with the management manual.  Regular maintenance is now performed by council staff, in conjunction with experienced treatment vendors for training and annual service checks.		
7	The treatment plant tanks shall be desludged as necessary and in particular within one month of notice in writing from the Waikato Regional Council to do so. Sludge shall be disposed of at a site approved by the Waikato Regional Council.	Yes	The tanks have been de-sludged during the reporting period.  Sludge was disposed of at the Waikato District Council Meremere WWTP		
8	There shall be no overland discharge of effluent from any part of the effluent treatment and disposal system.	Yes	No discharge has occurred during the reporting period		
9	<p>There shall be no objectionable odour at or beyond the boundary of the land defined by Lot 2 DPS 16616 Blk IV Maramarua SD as a result of normal operations at the site.</p> <p>Note i) For the purpose of this condition, normal operation is considered to be all times that the plant is operating except during plant maintenance activities, such as filter cleaning.</p> <p>Note ii) For the purpose of this condition, the Regional Council will consider an odour that is objectionable to have occurred if any appropriately experienced officer of the Regional Council deems it so having regard to:</p> <p>a The frequency, intensity, duration, amount, and location of the odour.</p> <p>b A written declaration from no less than 2 individuals that the odour was objectionable or offensive. That declaration shall include the individual's names and addresses, the date and time that the event occurred and where and when it was detected. Where a declaration is made following a number of odour events having objectionable or offensive effects, that declaration shall provide details of</p>	Yes	The Waikato District Council Corporate Services Customer First Team has received no complaints regarding the operation of the plant or discharge of treated effluent from the site during 2008/09.		

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	<p>the frequency, intensity, duration and location of those events. The individuals shall also state the circumstances which led to the declaration (for example, called upon by other individual, or detected themselves from a distance). The declaration shall be signed and dated.</p> <p>Relevant written advice or a report from an Environmental Health Officer of a territorial authority or health authority.</p>		
10	The consent holder shall ensure that all reasonable efforts are made to prevent or minimise odour effects during plant maintenance activities.	Yes	No odour has been noted at the site during the reporting period.
11	The consent holder shall maintain and keep a complaints register for complaints lodged with the consent holder concerning any aspects of operations (including odour) at this site. The register shall record the date, time and type of complaint, cause of the complaint, and action taken by the consent holder in response to the complaint. The register shall be available to the Waikato Regional Council at all reasonable times.	Yes	The Waikato District Council Corporate Services Customer First Team has received no complaints regarding the operation of the plant or discharge of treated effluent from the site during 2008/09.
12	<p>The Waikato Regional Council may in December 2003, after consultation with the consent holder, serve notice on the consent holder under section 128 (i) of the Resource Management Act 1991, of its intention to review the conditions of this resource consent for the purpose of reviewing the effectiveness of the conditions of this resource consent in avoiding or mitigating any adverse effects on the environment from the exercise of this resource consent and if necessary to avoid, remedy or mitigate such effects by way of further or amended conditions.</p> <p>Note: Costs associated with any review of the conditions of this resource consent will be recovered from the consent holder in accordance with the provisions of section 36 of the Resource Management Act 1991.</p>	Yes	
13	The consent holder shall pay to the Waikato Regional Council, any administrative charge fixed in accordance with Section 36 of the Resource Management Act, 1991, or any charge prescribed in accordance with regulations made under Section 360 of the Resource Management Act.	Yes	