



26 August 2009

Ref :

**TABLED AT HEARING**  
Date *6/10/2009*

**MEMORANDUM**

**FROM :** GILLIAN ENSOR (CONSENTS PROJECT LEADER)  
**TO :** DR BRYAN JENKINS  
CC  
**SUBJECT :** MINIMUM AND MEAN FLOWS FOR UPPER WAITAKI TRIBUTARIES

1. On 13 May 2009 the Council passed a number of resolutions relating to the Waitaki resource consent applications. In particular, resolution (f) states:

*"That authority be delegated to the Chief Executive, enabling him to provide the flows that comply with the formulas for environmental flows prescribed in Table 3 of the Waitaki Catchment Water Allocation Regional Plan."*

2. There are a number of tributary water bodies in the upper Waitaki catchment where applications have been lodged with the Council to take, divert and use water. These include waterbodies that fall within Rule 2, Table 3(i) and Rule 2, Table 3(xxii).
3. The Council has engaged Mr David Stewart of Raineffects Limited to assess the mean annual low flow, 5-year, 7-day low flow and the mean flow as prescribed in Rule 2, Table 3 for these water bodies.
4. The following table includes the assessed flows for water bodies where there are resource consent applications to take or divert water.

Table 3 category	Tributary	Location of min flow site	Mean Annual low flow (l/s)	5Y7D low flow (l/s)	Mean flow (l/s)
Row i - High Natural Character Water Bodies	Mistake River	NZMS 260 I37:080-040	520	n/a	n/a
	Cass River	NZMS 260 I37:062-007	4550	n/a	n/a
	Station Stream	NZMS 260 I36:125-212	320	n/a	n/a
Row xxii - All other Rivers and Streams	Ahuriri River East Branch	NZMS 260 G39: 483-355	n/a	400	2060
	Shepherds Creek	NZMS 260 H39:866-356	n/a	60	320
	Coal Creek	NZMS 260 H39:866-356	n/a	29	140

Manuka Creek	NZMS 260 H39:541-225	n/a	65	400
Otamatapaio River	NZMS 260 H40:759-168	n/a	200	1120
Scrubby Creek	NZMS 260 H39:855-440	n/a	30	150
Stony River	NZMS 260 I39:909-451	n/a	200	1700
Sutton Stream	NZMS 260 I39:967-216	n/a	80	280
Glen Bouie Creek	NZMS 260 H40:792-084	n/a	10	90
Omarama Stream	NZMS 260 H40:612-154	n/a	160	453

Table 1: Assessed flows for tributary water bodies in the upper Waitaki catchment.

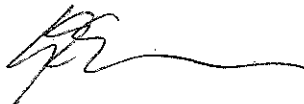
5. As set out in the Council resolution, I request that you confirm that these are the assessed flows for tributary water bodies in the Waitaki catchment.

**Recommendation**

6. Under the delegation provided to me by Council on 13 May 2009, the assessed mean annual low flows, 5-year, 7-day low flows and the mean flows for tributary water bodies in the upper Waitaki catchment are those set out in Table 1.

**Recommendation by:**

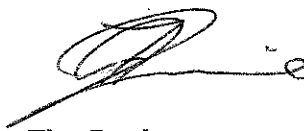
26/08/09



**Gillian Ensor  
Consents Project Leader**

**Date**

**Recommendation reviewed by:**

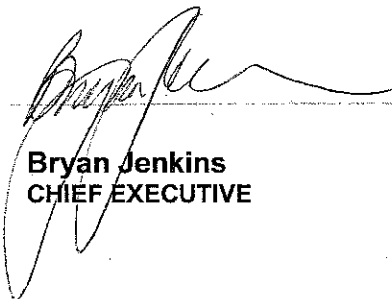


**Tim Davie  
Surface Water Resources & Ecology  
Manager**

**Date**

28/8/09

**Approved by:**



**Bryan Jenkins  
CHIEF EXECUTIVE**

**Date**

28/8/09