

Volumetric Water Meter Verification

(for consented takes <5 l/s)

TO: Tasman District Council
 Private Bag 4
 Richmond 7050
 Attn: Compliance, Water Metering

Consent Holder(s) Name: _____

Resource Consent number(s): _____ Consented flow rate: _____ l/s

Meter Type and Serial Number: _____ Meter size: _____ mm

Meter reading (at end): _____ m³

Verification Date: (DD/MM/YYYY) _____

Verification Details

Please describe the method used to determine meter accuracy:

Verification Tests

Note: Council's minimum requirements for volumetric water meter verification for consented rates of taking water under 5 litres per second where a mechanical in-line meter is used, is described on the next page.

No of different tests	Tank Volume (m ³)	Meter Reading (m ³)		Metered Volume (m ³)	Duration (seconds)	Flow rate (l/s)	Error %
	<i>V_b</i>	<i>START</i>	<i>END</i>	<i>V_a=END-START</i>	<i>t</i>	<i>V_b/t</i>	<i>(V_a-V_b)/V_b*100</i>
1							
2							
3							

PLEASE ATTACH A PHOTO OF THE TEST SETUP

Compliance with Accuracy Requirement

I/We have found that with regards to the Council's accuracy requirement of ± 5%, the water measurement system is: *(please tick one)*

Compliant Non-compliant

General Inspection Notes and Any Recommended Action

Recommended remedial action: *(if any)*

I/WE HAVE DISCUSSED THE RECOMMENDED ACTION WITH THE CONSENT HOLDER.

Acknowledgement

The undersigned acknowledges the following minimum requirements for volumetric water meter verification for consented rates of taking water under 5 litres per second where a mechanical in-line meter is used.

Verifier's/Owner's name (print):

Signed:

Date: (DD/MM/YYYY)

Contact Phone Number:

Requirements for Volumetric Water Meter Verification for Mechanical Meters

(for consented water takes less than 5 L/sec)

The following is the Council's minimum requirements for volumetric water meter verification for consented water takes under 5 litres per second where a mechanical in-line meter is used. These consented takes are subject to the Tasman Resource Management Plan and are required to record actual water taken to an accuracy of $\pm 5\%$. The Council requires:

1. A sufficiently large container such that it takes a minimum of 3 minutes to fill when pumping at the Consent Holder's authorised pumping rate. Note: A 1000 litre container such as a mobile horticulture spray tanker (which has an in built volume measure and makes disposal easier) is recommended.
2. The pump and water meter need to be fully operating when testing commences. Where the source is groundwater, the pump needs to be fully operating for a minimum of 2 minutes (to allow the groundwater level to 'stabilise') prior to test commencing.
3. Pumping must involve a full pipe and water meter.
4. Two people are typically required for the test. One person places the discharging pipe into the measuring container at the same moment the second person accurately reads the meter dials and records the START reading (and starts a stop watch if the rate of taking is required). The moment the container overflows, (or the calibrated volume is reached), then the END meter reading is recorded (and the stop watch stopped).
5. The results of each test are required to be recorded with all columns filled in and showing tank volume, meter readings start and end, pumped water volume, duration, flow rate and calculated meter accuracy.

Note: If the above described meter verification is not practical, consent holders will need to arrange for an accredited verifier to verify the water meter. Tasman District Council can help with your enquiries.

If you have any enquiries, or need some assistance contact Compliance, Water Metering team, at the Tasman District Council's Richmond Office:

Tasman District Council
Email info@tasman.govt.nz
Website www.tasman.govt.nz
24 hour assistance

Richmond
189 Queen Street
Private Bag 4
Richmond 7050
New Zealand
Phone 03 543 8400
Fax 03 543 9524

Murchison
92 Fairfax Street
Murchison 7007
New Zealand
Phone 03 523 1013
Fax 03 523 1012

Motueka
7 Hickmott Place
PO Box 123
Motueka 7143
New Zealand
Phone 03 528 2022
Fax 03 528 9751

Takaka
78 Commercial Street
PO Box 74
Takaka 7142
New Zealand
Phone 03 525 0020
Fax 03 525 9972