

# Flowmeter/Water Measuring Device Verification Form

TO: Environment Canterbury  
C/o Water Metering Team  
4 McNally Street  
PO Box 419  
Ashburton 7740

Ph: 03 308 7682  
Fax: 03 365 3194  
Email: water.metering@ecan.govt.nz

Well/SWAP number(s): \_\_\_\_\_

Consent Holder: \_\_\_\_\_

Verification date: \_\_\_\_\_

**Flowmeter/Water Measuring Device details:** *(if not already provided on installation and commissioning form)*

Make: \_\_\_\_\_ Meter size: \_\_\_\_\_ (mm diameter)  
 Model: \_\_\_\_\_ Pulse output: **Yes / No**  
 Serial number: \_\_\_\_\_ Volume per Pulse \_\_\_\_\_ **m<sup>3</sup>/puls**  
 Meter Reading Volume: \_\_\_\_\_ **m<sup>3</sup>** *(state units if different)*

**Insertion meters only:**

Encountered K-factor in the flow meter : \_\_\_\_\_ Correct **Yes/No**

**Ultrasonic meters only:**

Transducer size encountered \_\_\_\_\_ Transducer spacing: \_\_\_\_\_  
 Transducer mounting: \_\_\_\_\_ V or Z (Please circle, V = Reflect, Z = Direct) Correct **Yes/No**

**Verification details:**

Is a clamp-on water meter used for verification: **Yes/No** *(if no describe the method used) e.g. reservoir/time calculation, volumetric etc)*

Verification flow meter brand and type: \_\_\_\_\_

Verification flow meter serial number: \_\_\_\_\_

Last calibration date of the flow meter used for verification: \_\_\_\_\_

*(Calibration certificates needs to be send in (once) after every (yearly) calibration to ECan)*

**Verification parameters:**

Used parameters for verification: Pipe diameter: \_\_\_\_\_ mm Pipe Wall Thickness \_\_\_\_\_ mm

Pipe material: **Ductile Iron, Mild Steel, PVC, Polyethelene, Aluminium, circle or other** : \_\_\_\_\_

Location in system where the clamp-on was attached: \_\_\_\_\_

**Measured flows:**

Undertake three separate observations and record and average the results in the table below.

Verification flows should be taken at or around the consented flow rate and/or the flow rate the well is usually pumped at.

If flows don't verify within 5% a second clamp-on location can/should be attempted.

	Location 1 Observation 1	Location 1 Observation 2	Location 1 Observation 3	Location 2 Observation 1	Location 2 Observation 2	Location 2 Observation 3	Average
installed meter flow: L/s							
verification flow meter: L/s							
% Difference							

**Certification:**

I/we certify that the above flowmeter/water measuring device has been verified and the measured flow is within 5% of the verification meter.

**OR (circle one)**

I/we have found that the installed flowmeter/water measuring device deviates more than 5% **above/below** the verified flow.

Recommend remedial action: \_\_\_\_\_  
 \_\_\_\_\_

Verified by: \_\_\_\_\_ Signed: (by verifier) \_\_\_\_\_

Verifiers Certificate No \*: \_\_\_\_\_

Company: \_\_\_\_\_ Date: \_\_\_\_\_

\* Each verifier will be registered by the manufacturer/supplier on having attended a verifier course for their equipment. ECan will keep a list of the approved verifiers and certificate numbers.