Flowmeter/Water Measuring Device Verification Form

TO: Environment Canterbury
C/o Water Metering Team
200 Tuam Street
PO Box 345
Christchurch 8140

Ph: 03 353 9007
Email: water.metering@ecan.govt.nz

Consent Holder: ______
Consent number: ______ Well/SWAP number(s): ______
Flowmeter Installation date: ______ 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 ______ m³/puls

Meter Reading Volume: ______ m³ (state units if different)

Datalogger details:

Make: ______ Installed □Yes/□No
Model: ______ Serial number: ______

Telemetry installed for compliance: □Yes/□No Data hosted by: ______

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, ☐ 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.

<table>
<thead>
<tr>
<th>Location 1 Observation 1</th>
<th>Location 1 Observation 2</th>
<th>Location 1 Observation 3</th>
<th>Location 2 Observation 1</th>
<th>Location 2 Observation 2</th>
<th>Location 2 Observation 3</th>
<th>Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installed meter flow: L/s</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Verification flow meter: L/s</td>
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<tr>
<td>% Difference</td>
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</tbody>
</table>

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 then 5% above/below the verified flow.

Recommend remedial action:

___________________________

Verified by:  ___________ Signed (by verifier): ________________________________

Verifiers Certificate No *:  ______  Date: ______

Company:  ______

* 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.