

# Water Measuring (Full Pipe) & Recording Device Verification Form

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**IMPORTANT:** Please fill out a Water Measuring and Recording Device Installation Form to Environment Canterbury if either of these devices has been replaced and this form has not yet been provided

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

Consent Number: **CRC** \_\_\_\_\_ Well/SWAP Number(s): \_\_\_\_\_

Portable pump:  Yes  No Additional Well/SWAPs: \_\_\_\_\_

Verification Date: \_\_\_\_\_

## Full Pipe Measuring Device (Flow Meter) Details

Make: \_\_\_\_\_ Model: \_\_\_\_\_

Meter type:  Mechanical Helical Vane  Mechanical Single/ Multi Jet  Mechanical Positive Displacement/ Volumetric  Mechanical Insertion Paddle Wheel  Electro Magnetic MagFlow  Electro Magnetic Insertion  Ultrasonic Reflection  Ultrasonic Transmission

Serial Number: \_\_\_\_\_ Meter Size (diameter): \_\_\_\_\_ mm

## Recording Device (Data Logger) Details

Make: \_\_\_\_\_ Model: \_\_\_\_\_

Serial number: \_\_\_\_\_

Telemetry installed:  Yes  No Data hosted by: \_\_\_\_\_

## Verification Details

Verification method:  Clamp-on  Volumetric  Rig

### Reference clamp-on or rig details

Make: \_\_\_\_\_ Model: \_\_\_\_\_ Serial number: \_\_\_\_\_

Latest Calibration Date: \_\_\_\_\_

**Note:** Reference meter calibration certificates are required to be submitted to ECan after each yearly calibration

### Reference clamp-on or rig installation

Unobstructed length of pipe upstream: \_\_\_\_\_ mm Unobstructed length of pipe downstream: \_\_\_\_\_ mm

**IMPORTANT:** A photo of the reference meter installation clearly demonstrating the required length of unobstructed pipe (10x pipe diameters upstream, 5x pipe diameters downstream) was achieved during the verification needs to be included with this form

### Pipe Parameters

Pipe Diameter (external): \_\_\_\_\_ mm Pipe Wall Thickness: \_\_\_\_\_ mm

Pipe Material:  Ductile Iron  Galvanised Steel  Mild Steel  PVC  Polyethylene  Aluminum  Other: \_\_\_\_\_

### Volumetric details (only suitable for flows of below 5 l/s)

Container volume: \_\_\_\_\_ litres Latest Calibration Date: \_\_\_\_\_

Calibration method: \_\_\_\_\_

**Measured Flows**

The verification test should be conducted for the typical flow rate of the system with a minimum of 3 replicates (10-minute initial replicate + 2 or more 5-minute replicates).

If the system runs at a range of flow rates, then the 3 replicates should include the minimum flow rate, the maximum flow rate and mid-range flow rate (halfway between the minimum and maximum).

	Replicate 1 <input type="checkbox"/> Min <input type="checkbox"/> Mid <input type="checkbox"/> Max	Replicate 2 <input type="checkbox"/> Min <input type="checkbox"/> Mid <input type="checkbox"/> Max	Replicate 3 <input type="checkbox"/> Min <input type="checkbox"/> Mid <input type="checkbox"/> Max
Test start time (HH:MM:SS)			
Installed meter volume (litres)			
Reference meter volume (litres)			
% Difference			
Test duration: (MM:SS)			
Volume recorded by Data Logger during replicate (m <sup>3</sup> )			

Verified by: \_\_\_\_\_

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

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

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

**Please Note:**

Incomplete certificates may result in your certificate not being processed.