Form RS1 Piped takes, water meter, datalogger installation/commissioning and verification

Otago Regional Council

Phone: 0800 474 082 www.orc.govt.nz

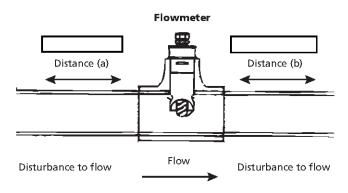
Post to: Otago Regional Council 70 Stafford Street Private Bag 1954 Dunedin 9054 or Email to: watermetering@orc.govt.nz

Verification Only

Attn: Environmental Services Installation / Commissioning

photos of the		ted in full by th	e equipment installer or verifie	r and accompanied with
Con	sent number:			
Well number(s):				
Name of consent holder:				
Address of consent holder:				
GPS location of meter (NZTM format):		Easting:	Northing:	
GPS location of take (NZTM format):		Easting:	Northing:	
Loc	ation of take:			
Water meter details				
Make:			Meter size (mm diameter):	
Model:			Pulse output?	Yes No
Serial number:			Volume per pulse:	m ³ /pulse
(Start) meter reading volume:	m	(state units if different)	Type of meter (e.g. electromagnetic, mechanical):	
Installer:		I	,	
'				
Datalogger details				
Installed?	O Yes O N	0	Installer:	
Make:			Model:	
Serial number:			Telemetry installed for consent compliance?	C Yes C No
Data hosted by:				
Bata Hootoa by.			Telemetered daily to ORC?	O Yes O No
			Telemetered daily to ORC?	C Yes C No
Installation details	nal diameter:	m	·	C Yes C No
Installation details Pipe internal/exter		m	m	C Yes C No
Installation details Pipe internal/exter Pipe w	all thickness:	m	m m	C Yes C No
Installation details Pipe internal/exter Pipe w F Distance of straight, unob	all thickness: Pipe material: structed pipe		m m	C Yes C No
Installation details Pipe internal/exter Pipe w	all thickness: Pipe material: structed pipe water meter: structed pipe	m [drop down box	m m (distance (a) in Figure 1)	C Yes C No

Figure 1: Installation diagram - Please mark any disturbances upstream of the water meter e.g. pipe size reduction, gate valves, pipe bends. Refer to Figure 2 for an example of a good installation.



Insertion meters only			
Insertion depth:			
K-factor:			
Ultrasonic meters only			
Transducer size:			
Transducer spacing:			
Transducer mounting:	(V = Reflect or Z = Direct)		
Accuracy details			
Do you have a water meter calibration certificate?	O Yes O No (If yes, please submit the certificate)		
Has the meter been checked against a portable water meter?	C Yes C No		
Verification details			
Is a clamp-on water meter used for verification?	C Yes C No		
verification:	If no, describe the method used e.g. reservoir/time calculation, volumetric etc:		
Verification flow meter brand and type:			
Last calibration date of the flow meter used for verification:	DD / MM / YYYY		
Calibration certificates must be sent i	n (once) to the Otago Regional Council, after every required calibration		

Pipe wall thickness (mm):

clamp-on was attached:

Location in system where the

Verification parameters

Pipe diameter (mm):

Pipe material:

[drop down]

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					
(Select one):					
Verification device.					
• I/we have found that the installed water meter/measuring device deviates more than 5% from the verified flow.					
Recommend remedial action:					
If unable to be verified at the time of the installation/commission please advise date this will be completed by: DD / MM / YYYYY					
I/we certify that the above water meter and datalogger have been installed in accordance with Otago Regional Council and Resource Management (Measurement and Reporting of Water Takes) Regulations 2010 requirements and that:					
a water meter calibration certificate from the manufacturer is attached to this form					
a picture or photo of the installation is attached to this form.					
Verified by:	Signed:				
Company:	Date: DD / MM / YYYY				

Figure 2: An example of an Ideal installation of a water meter, including obstructions in pipework.

