

<b>Title</b>	<b>Carry out a water measurement telemetry system installation and commission</b>		
<b>Level</b>	<b>5</b>	<b>Credits</b>	<b>5</b>

<b>Purpose</b>	<p>This unit standard is for people who are responsible for the installation and commission of water measurement telemetry systems required for water permit holders to meet their obligations.</p> <p>People credited with this unit standard are able to: select a water measurement telemetry system; prepare for and carry out installation of a selected water measurement telemetry system; and commission the water measurement telemetry system and complete reporting requirements.</p>
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<b>Classification</b>	Water Industry > Irrigation
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 Legislation, regulations, and the policy statement relevant to this unit standard include but are not limited to:
  - Building Act 2004;
  - Health and Safety at Work Act 2015;
  - Resource Management Act 1991;
  - Natural and Built Environment Act 2023 section 37 Relationship with RMA national direction (2)(c);
  - Electricity (Safety) Regulations 2010;
  - Resource Management (Measurement and Reporting of Water Takes) Regulations 2010;
  - Resource Management (Measurement and Reporting of Water Takes) Amendment Regulations 2020;
  - National Policy Statement for Freshwater Management 2020;
  - Radiocommunications Regulations 2001;
  - Local bylaws;
 and any subsequent amendments.

## 2 Definitions

*Consenting authority* refers to the regional council or unitary authority that granted the water permit.

*Water measurement system* refers to all components of the measurement configuration which include:

- Service Water meter – instrument that continuously measures and records the volume of water that passes through it.
- Headworks – the structure at the head of the water delivery system that contains the service water meter.
- Telemetry system – includes datalogger, communication devices, associated cabling and power supply.

## 3 Assessment

Evidence for all outcomes must be presented in accordance with the New Zealand Water Measurement Code of Practice; available from the Irrigation New Zealand website, <http://irrigationnz.co.nz/>.

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## Outcomes and performance criteria

### Outcome 1

Select a water measurement telemetry system.

#### Performance criteria

- 1.1 Select a water measurement telemetry system to be installed in accordance with specifications.

Range includes but is not limited to – legislation, regulations, relevant consenting authority requirements, code of practice, specific permit conditions.

### Outcome 2

Prepare for and carry out installation of a selected water measurement telemetry system.

#### Performance criteria

- 2.1 Check selected water measurement telemetry system components and install and confirm their configurations to correctly handle and transmit data.
- 2.2 Check installed water measurement telemetry system location for consistency with legislation, regulations, guidelines, relevant consenting authority requirements, code of practice and specific permit conditions.
- 2.3 Check the water measurement telemetry system function is not compromised post installation during site reinstatement.

**Outcome 3**

Commission the water measurement telemetry system and complete reporting requirements.

**Performance criteria**

3.1 Commission a water measurement telemetry system.

3.2 Write and submit a commissioning report to the relevant organisations.

Range may include but is not limited to – consent holder, consenting authority, data hosts, data managers.

<b>Planned review date</b>	31 December 2028
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**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	25 January 2024	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0179
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

**Comments on this unit standard**

Please contact Muka Tangata - People, Food and Fibre Workforce Development Council [qualifications@mukatangata.nz](mailto:qualifications@mukatangata.nz) if you wish to suggest changes to the content of this unit standard.