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MAINTENANCE SPECIFICATIONS 2018

under the

WATER MANAGEMENT (GENERAL) REGULATION 2018

I, Niall Blair, MLC, Minister for Regional Water, in pursuance of clause 2 (3) of Schedule 8 to the *Water Management (General) Regulation 2018 (the Regulation)* approve the following Maintenance Specifications for metering equipment.

Dated this 28th day of November 2018.

NIALL BLAIR, MLC

Minister for Regional Water

Explanatory note

This instrument is made under clause 2 (4) of Schedule 8 to the Regulation. The object of this instrument is to specify the mandatory requirements for maintenance of metering equipment that holders of water supply work approvals, water access licences and *Water Act 1912* licences and entitlements that are subject to the mandatory metering equipment condition must comply with.

MAINTENANCE SPECIFICATIONS 2018

under the

WATER MANAGEMENT (GENERAL) REGULATION 2018

1 Name of this instrument

This instrument is the Maintenance Specifications 2018.

2 Commencement

This instrument commences 1 December 2018 or the date it is published in the NSW Government Gazette, whichever is later.

3 Interpretation

In this instrument:

Act means the *Water Management Act 2000*.

authority holder means a person who holds an a water supply work approval, an access licence or a licence or other entitlement under the *Water Act 1912* that is subject to the mandatory metering equipment condition.

duly qualified person has the same meaning as in the Dictionary to the Act and clause 236 of the Regulation.

closed conduit metering equipment means metering equipment other than for an open channel.

mandatory metering condition has the same meaning as that term under the Regulation.

open channel has the same meaning as that term under the Regulation.

open channel metering equipment means metering equipment for an open channel.

4 Mandatory maintenance requirements

(a) The requirements specified in Schedule 1 are the maintenance requirements applying to closed conduit metering equipment.

- (b) The requirements specified in Schedule 2 are the maintenance requirements applying to open channel metering equipment.
- (c) Each maintenance requirement specified in Column 1 of Schedule 1 or 2 that is adjacent to a tick (✓) in Column 2 of those Schedules must be carried out every 12 months, or at any time within 12 months if it is necessary to ensure that the metering equipment is operating accurately and correctly, by:
- the authority holder, except if the activity affects or will affect the metrology of the meter or requires the removal of a tamper evident seal, or
 - a duly qualified person.
- (d) Each maintenance requirement specified in Column 1 of Schedule 1 or 2 that is adjacent to a tick (✓) in Column 3 of those Schedules must be carried out every 5 years by a duly qualified person.

Schedule 1

Mandatory maintenance requirements for closed conduit meters

Column 1	Column 2	Column 3
Maintenance Requirements	Frequency	
	Every 12 months or more frequently if necessary	Every 5 Years
1. General cleaning and housekeeping; suction clear, cleaning solar panel, clear away debris, excess soil, check for vermin issues/damage and check that site is weed free	✓	✓
2. Check meter, pipework and other fittings within the meter facility for structural integrity, check for leaks	✓	✓
3. Check that site is WHS compliant - ensure that the site is safe for employees, contractors or visitors to inspect or perform work at the metering site	✓	✓
4. Check integrity of the telemetry pole, antenna and the fence around it (if required)	✓	✓
5. When pump has started and water is flowing, check the correct operation of totaliser	✓	✓
6. Verify the meter seals integrity	✓	✓
7. Verify batteries/solar panel and change them as required and/or specified by the manufacturer (if required)	✓	✓
8. Meter display is clear and readable	✓	✓
9. Check condition of electrical cables	✓	✓
10. Record of meter reading	✓	✓
11. Complete any other inspections and basic maintenance as per the meter manufacturer's requirements (if specified)	✓	✓
12. Electronic validation - check software version, electronic check against internal reference source that is set at the time of calibration (as per manufacturer's requirements)		✓
13. Check Telemetry fault notification		✓
14. Check for signal transfer between transmitter, sensor and data logger		✓
15. Perform volumetric or simulated testing (in situ accuracy testing to ensure meter is operating		✓

Column 1	Column 2	Column 3
Maintenance Requirements	Frequency	
	Every 12 months or more frequently if necessary	Every 5 Years
within +/-5%)		
16. Produce a routine maintenance report that covers all items in this Schedule		✓
17. Complete the water meter validation certification form after completing all maintenance activities in this Schedule		✓

Schedule 2

Mandatory maintenance requirements for open channel meters

Column 1	Column 2	Column 3
Maintenance Requirements	Frequency	
	Every 12 months or more frequently if necessary	Every 5 Years
1. General cleaning and housekeeping; cleaning solar panel, clear away debris, excess soil, check for vermin issues/damage and check that site is weed free	✓	✓
2. Check that site is WHS compliant - ensure that the site is safe for employees, contractors or visitors to inspect or perform work at the metering site	✓	✓
3. Meter display is clear and readable	✓	✓
4. Check integrity of the telemetry pole, antenna and the fence around it (if applicable)	✓	✓
5. Record of meter reading	✓	✓
6. Verify the meter seals integrity	✓	✓
7. Verify batteries/solar panel and change them as required and/or specified by the manufacturer (if required)	✓	✓
8. Check condition of electrical cables	✓	✓
9. Remove vegetation in flow measuring section	✓	✓
10. Remove vegetation and silt on the sensors or sensor system	✓	✓

Column 1	Column 2	Column 3
Maintenance Requirements	Frequency	
	Every 12 months or more frequently if necessary	Every 5 Years
11. Complete any other inspections and basic maintenance as per the meter manufacturer's requirements (if specified)	✓	✓
12. When pump has started and water is flowing, check the correct operation of totaliser	✓	✓
13. Check for signal transfer between transmitter, sensor and data logger		✓
14. Check software version and telemetry fault notification		✓
15. Check in stream discharge measurement and cross section survey		✓
16. Perform volumetric (in situ accuracy testing to ensure meter is operating within +/-5%)		✓
17. Produce routine maintenance report that covers all items in this Schedule		✓
18. Complete the water meter validation certification form after completing all maintenance activities in this Schedule		✓

Note. Under clause 237 of the Regulation, a duly qualified person who validates metering equipment must provide the person for whom the validation is done with a certificate, in the approved form, to that effect.

[n2018-4041]