Water Services Authority
Taumata Arowai

Network Environmental Performance Measures 2025 – Changes

As part of the Water Services Act 2021 (The Act), the Water Services Authority - NEPR is generated on a yearly basis covering the period between 1st July to 30th June to the following year.

After two years of reviewing the information submitted by the network operators, the NEPM needs updates to address the following:

(a) Issues raised by the network operators during webinars and other communications
(b) Issues found during data analysis
(c) Issues found with NEPM definitions

The following is a list of the changes.

Consultation

A targeted consultation was performed to gauge the response from the sector regarding the changes to the guidance and measures. The Water Services Authority – Taumata Arowai engaged with 10 different stakeholders to receive feedback on the modifications to the measures. We received replies from 6 of the 10 consulted.

Summary of the feedback

Most of the feedback consisted of simple clerical changes to correct for measure reference codes and ensuring descriptions were similar between spreadsheet and guidance document. There were also some comments about the consistency between the various columns to ensure they are the same between wastewater and drinking water. We have addressed all of these issues.

Positive feedback was also received about how this will improve the data collection, and it bring it into alignment with the water sector. All the individuals that responded were generally positive about the changes.

Change Details

Performance Measure	Change	Reason
N/A	Removed introductory commentary regarding new requirements from the guidance.	As new measures are now all in effect, all the measures have now been integrated into the document.
N/A	Combined Appendix for acronyms with the definitions	Abbreviations and definitions have been combined to simplify the document.
N/A	Modified/Removed several sections from "Overview". They are as follows: - Modified the "Purpose" section to remove the description and examples. - Removed the "Legislation" section. - Removal of National Performance Review commentary. - Removed "Drinking Water" section. - Removed "Wastewater" section. - Shortened the "Environmental performance" section. - Re-worded the "Who needs to capture and report data?" section. - Reworded the section "How is information submitted?"	Simplify the overview and to provide additional description where this would be helpful (for example, on the submission process)
N/A	Changed the numbering on the measures to ensure they are consistent.	Corrected to a consistent numerical format
All measures	Added a dropdown selection for reason information was not available.	Improve simplicity of data entry and the clarity of results for data analysis
All measures	Removed most of the comments section from the measures and replaced them with dropdowns.	Improve simplicity of data entry and the clarity of results for data analysis
All measures	Changed the reporting of data confidence from each data point to the	Improve simplicity of data entry and the clarity of results for data analysis

	performance measure for both organisational and network levels.	
D-A5 – Total length of drinking water pipes	Changed the measure from an organisation to network level	This was corrected to correspond with the measure originally consulted on
D-A7 Drinking water source-type	Added “Other” to source-type.	Provide for instances where there are mixtures of source-types
D-EH1.1 - Number of residential connections in the drinking water network	Changes to the methodology of determining residential connections. There are now three methods instead of one. Also adding a dropdown to allow network operators to select what methodology was used to determine number of connections.	Align the calculation of connections with international standards for water loss. Improve simplicity of data entry and the clarity of results for data analysis
D-EH1.2 - Number of residential units in the drinking water network	This is the original calculation of connections for this measure.	Ensure data trending is comparable.
D-EH2.1 Number of non-residential connections in the drinking water network	Changes to the methodology of determining non-residential connections. There are now two methods instead of one. Also adding a dropdown to allow network operators to select what methodology was used to determine number of connections.	Align the calculation of connections with international standards for water loss. Improve simplicity of data entry and the clarity of results for data analysis
D-EH2.2 - Number of non-residential units in the drinking water network	This is the original calculation of connections for this measure.	Ensure data trending is comparable.
D-EH4 Water supplied to the drinking water network	Changed the water balance diagram to reflect the performance measure names and reference them in the descriptions.	Increase understanding of how the measures are related and dependent on each other.

D-EH9- Type(s) of resource consents held for drinking water networks	Added “Other” to consent type.	Provide for instances such as where several consent types apply. The consent type can be identified in the comment section.
D-EH11 Expiry dates for resource consents	Added two more dropdown selections to ask if the network operator is operating under the resource consent and the status of the consent.	Improve simplicity of data entry and the clarity of results for data analysis The addition of the dropdown for the status of the consent will align data received with the wastewater measures.
D-EH12 Have there been any exceedance of consented rates or volumes of water take	Requesting the volume of exceedance in the reporting period.	Under the previous guidance, the degree of the exceedance was not quantified. For example, one operator may have six exceedances of a negligible volume while another operator might have one exceedance of a large volume. Having information about the volume of an exceedance will improve the value of data received for analysis
D-EH14 Maximum daily/weekly consented volume of water-take	Changed the measure to allow for a weekly consented volume take and removed the comment section.	This change will allow operators to enter the flow rate where measured on a weekly basis into the system correctly instead of placing the value in the comments section.
D-EH20 Disposal route (report at a network level)	Created three sub-measures for the disposal route so each waste stream can be addressed: - D-EH20.1 Disposal route for sludge - D-EH20.2 Disposal route for backwash water - D-EH20.3 Disposal route for screenings A dropdown selection is provided for each sub-measure.	Provide for situations where different waste streams may go into different locations and should be treated separately

D-R9.1 What methodology was used to assess the condition grade?	Added this measure as a dropdown selection to provide information regarding how the asset condition was determined.	Improve simplicity of data entry and the clarity of results for data analysis
D-R13.1 What methodology was used to assess the condition grade?	Added this measure as a dropdown selection to provide information regarding how the asset condition was determined.	Improve simplicity of data entry and the clarity of results for data analysis
D-R19 Water restriction days	Provided clarification regarding the number of water restriction days that did not exceed the number of days in the reporting period.	To avoid double-counting in instances where there are two or more networks that have water restriction days simultaneously
D-RE1 Estimated total drinking water network water loss	Changed the water balance diagram to reflect the performance measure names and reference them in the descriptions. Included a dropdown selection to determine if the water loss volume included losses on the private side or not.	Provide for improved understanding of how the measures are related and dependent on each other. In instances where water loss on the private side while others only had it for their bulk networks. The change provides greater clarity around public vs private water loss.
D-RE2.2 Unavoidable Annual Real Losses (UARL) (m3/year)	Changed the measure from “Optional” to “Required”.	To calculate the Infrastructure Leakage Index (ILI) both the CARL and UARL are required.
D-RE5 Do you have a water conservation education programme in place?	Removed the requirement for commentary.	Improve simplicity of data entry and the clarity of results for data analysis
D-RE11 Number of days for which a complete telemetry	Provided clarification that the days for which data is recorded can not exceed the number of days in the reporting period.	Improve simplicity of data entry and the clarity of results for data analysis

dataset has been recorded		
D-RE14 Energy generated (kWh/year)	Changed from GJ/year to kWh/year.	Electricity bills provide information in kWh/year and not GJ/year. This will assist the operators to report the correct data. It is also a simple conversion from GJ to kWh, where this is required.
D-RL9 Number of days that outdoor water use was restricted	Provided clarification that the number of water restriction days cannot exceed the number of days in the reporting period.	To avoid double counting in instances where there are two or more networks that have water restrictions simultaneously
D-RL10 Number of days that outdoor water use was banned	Provided clarification regarding the number of water ban days did not exceed the number of days in the reporting period.	To avoid double counting in instances where there are two or more networks that have water ban days simultaneously
D-ES1 Total capital expenditure	Changed reporting units from thousands of dollars to dollars	Improve simplicity of data entry and the clarity of results for data analysis
D-ES2 Total operating expenditure	Changed reporting units from thousands of dollars to dollars. Also added “Please do not include depreciation, finance costs or levies.”	Improve simplicity of data entry and the clarity of results for data analysis
D-ES3 Total forecast drinking water capital expenditure	Changed reporting units from thousands of dollars to dollars	Improve simplicity of data entry and the clarity of results for data analysis
D-ES4 Total forecast operational expenditure for the next reporting period	Changed reporting units from thousands of dollars to dollars. Also added “Please do not include depreciation, finance costs or levies.”	Improve simplicity of data entry and the clarity of results for data analysis
D-ES5 Total revenue relating to drinking water	Changed reporting units from thousands of dollars to dollars	Improve simplicity of data entry and the clarity of results for data analysis

D-RL1 Have you undertaken an assessment to identify critical drinking water assets?	Added dropdown to select the methodology used to determine criticality.	Improve simplicity of data entry and the clarity of results for data analysis
W-A2 Length of wastewater pipe	Changed the measure from an organisation to network level.	This was corrected to correspond with the measure originally consulted on
W-A2.1 Length of gravity wastewater pipes	Addition of new measure for gravity wastewater pipes.	By providing additional options for a response more information may be obtained
W-A3 Length of combined wastewater and stormwater pipes	Added clarification regarding definition of a combined wastewater and stormwater pipe.	To avoid situations where pipes with cross-connections or infiltration are incorrectly identified as combined pipe
W-A7 Wastewater treatment process(s)	Addition of pre-treatment to list of available treatment options at the wastewater treatment plant in the dropdown selection.	Refine data available for wastewater treatment plants
W-A9.1 Average nominal flows	Addition of new sub-measure to capture average nominal flows.	To correct an error in the definition
W-A9.2 Average peak flows	Addition of new measure to capture average peak flows.	To correct an error in the definition
W-A9.3 Reason for peak flow	Addition of new measure to capture what is causing the high flow rates. This is a dropdown selection.	Improve value of data, simplicity of data entry and the clarity of results for data analysis
W-EH1 Number of residential wastewater connections in the wastewater network	Addition of new measure to capture the total number of residential connections at a network level.	Improve simplicity of data entry and the clarity of results for data analysis. Also, to bring into alignment with data collected on drinking water networks.

W-EH2 Number of non-residential wastewater connections in the wastewater network	Addition of new measure to capture the total number of non-residential connections at a network level.	Improve the value of data received and bring into alignment with data collected on drinking water networks
W-EH4 Number of resource consents held for wastewater treatment network	Changed “plant” to “network”.	Avoid omission of consents associated with networks where they are not associated with plant.
W-EH5 Type(s) of resource consents held for the wastewater treatment network	Changed “plant” to “network”.	Avoid omission of consents associated with networks where they are not associated with plant.
W-EH6 Resource consent reference number(s)	Referenced W-EH4 in the description.	To ensure reference numbers match consent numbers, improving the clarity of data received
W-EH7 Resource consent expiry date(s)	Referenced W-EH4 in the description. Also, added 2 dropdown selections to allow operators to select unlimited consents and if they are still operating under the consent.	Improve simplicity of data entry and the clarity of results for data analysis.
W-EH10 Number of consents held for wastewater overflows in the network	Removed	This measure is redundant since it was included with EH-4.
W-EH11 Resource consent reference numbers for	Removed	This measure is redundant since it was included with EH-6.

wastewater overflows		
W-EH12 Resource consent expiry date for wastewater overflows	Removed	This measure is redundant since it was included with EH-7.
W-EH19 How are overflows reported to the network operator?	Changed from "Are overflows recorded through verbal reports?" Added a dropdown selection that includes: Verbal, Written, Both, None	Improve simplicity of data entry and the clarity of results for data analysis.
W-EH21 If overflows are calculated, what methodology is used?	This measure replaces two measures: W-EH29 Are overflows calculated through hydraulic models? W-EH30 Are overflows calculated through calibrated hydraulic models? A dropdown was added to allow the selection of different methodologies other than just a calibrated/non-calibrated hydraulic model.	Improve simplicity of data entry and the clarity of results for data analysis.
W-EH24 What design standards do you use for calculating network capacity of wastewater networks?	Changed the definition of the measure and added a dropdown selection for the design standard.	Improve simplicity of data entry and the clarity of results for data analysis.
W-EH25 Stormwater level of service the network is designed for to prevent wastewater overflows due to	Changed the definition of the measure and requested a percentage.	Correct an error in the definition and provide for valuable data on stormwater ingress

stormwater ingress		
W-R7 Number of planned maintenance activities	Changed title from “Planned interruptions”.	Clarify the meaning of the measure
W-R9.2 What methodology was used to assess the condition grade?	Added this measure as a dropdown selection to provide information regarding how the asset condition was determined.	Improve simplicity of data entry and the clarity of results for data analysis.
W-R13.2 What methodology was used to assess the condition grade?	Added this measure as a dropdown selection to provide information regarding how the asset condition was determined.	Improve simplicity of data entry and the clarity of results for data analysis.
W-RE1 Electricity use (kWh)	Moved to an organisation level	Bring into alignment with data collected on drinking water networks, and reduce the volume of reporting.
W-RE2 Energy use from other fuels (GJ)	Moved to an organisation level	Bring into alignment with data collected on drinking water networks, and reduce the volume of reporting.
W-RL1 Have you undertaken an assessment to identify critical wastewater assets?	Added dropdown to select the methodology used to determine criticality.	Improve simplicity of data entry and the clarity of results for data analysis.