

Regional Town Water Supply Strategy – Scope of Works

Table 1 – Scope of Works – To be completed and submitted by JO and concurred to by DPIE Water’s Water Utilities Branch following concurrence to eligibility.

Item	Scope of Works	Yes/ No	Outcome Achieved
1	Undertake a secure yield analysis for each of the existing individual Town Water Supply (TWS) headworks systems (if not already completed) in accordance with DPIE Water’s <i>Draft NSW Guidelines on Assuring Future Urban Water Security – Assessment and Adaption Guidelines for NSW Local Water Utilities</i> (Item 7A of IWCM Checklist, February 2019)		Secure yield of each TWS headworks system based on unregulated river sources
2	If there are any regulated river sources, complete a drought reliability assessment (Item 7A of IWCM Checklist, February 2019) based on the drought reliability assessment completed by DPIE Water (can be provided).		Drought reliability of each TWS headworks system based on regulated river sources
3	If there are any groundwater sources, complete a sustainable yield and drought resilience assessment of groundwater sources that form part of the headworks system (Item 7B of IWCM Checklist, February 2019)		Long term yield & drought resilience of each TWS headworks system based on groundwater sources
4	Using existing bulk TWS headwork meter data establish the current average annual demands on each headworks. No correction required. Estimate the population serviced by the schemes		Annual demands & current water security deficiency Index of each TWS headworks system

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5	Using a +/- concept estimate the likely “40 years plus” future annual demands on each headworks Estimate the future population likely to be serviced by the scheme using +/- scenario		Future annual demands & future water security deficiency Index of each TWS headworks system
6	Identify all feasible interconnected regional options.		Long list of opportunities
7	Prepare a Discussion Paper of the findings from items 1 to 6 above and arrange a technical meeting with JO, LWUs and DPIE Water staff to review the findings and short list options.		Discussion Paper
8	Develop and undertake feasibility level proof of concept assessment for interconnected regional town water supply headworks options using schematic maps only.		Interconnected options with proof of concepts
8a	Undertake secure yield analysis for the interconnected regional options in accordance with draft NSW Guidelines on Assuring Future Urban Water Security – Assessment and Adaption Guidelines for NSW Local Water Utilities and establish required headwork sizing to meet future demands		Water security deficiency Index of the interconnected headwork system options & their sizes
8b	Feasibility level proof of concept assessment to include bulk hydraulic analysis where necessary		Size of bulk mains that supports the headwork system
8c	Feasibility level proof of concept assessment to include evaluation of regional water quality management options		Size & location of any water treatment barriers

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8d	Feasibility level proof of concept assessment to include evaluation of scheme monitoring and control options		Monitoring & control philosophy
9	Establish for each feasible option the capex, opex and present value costs over the duration of the strategy (“40 years plus”)		Life cycle costs
10	Undertake a TBL value assessment of the options with an aim to identify a preferred option that LWUs could consider within their IWCM strategies and by DPIE Water in their regional water strategies.		Preferred option on a TBL value basis
11	Identify and evaluate cost sharing/recovery methodologies, including consideration given to distribution of the cost/benefit for each benefitting LWU and identify a preferred model option.		Cost sharing model options
12	Identify and evaluate asset ownership, operation and management models and identify a preferred model option		Ownership & management models
13	Prepare a report summarising the analysis, assessments and outcomes of the above tasks and arrange a technical meeting with JO, LWUs and DPIE Water to discuss the draft report findings. Include an outline of proposed next steps including implementation options.		Final Report

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