

QBL Assessment

Original QBL

QBL Re-Evaluation

Assessment criteria & theme	Measure	Description	Criterion weight	Scenario 1 - Dam	Scenario 2 - Desalination + Recycling	Scenario 3 - Dam + PRW + Recycling	Scenario 4 - Dam + Interconnection + Recycling	Scenario 1 - Dam	Scenario 1A- Dam + Recycling	Scenario 2 - Desalination + Recycling	Scenario 2A- Desalination	Scenario 2B- Desalination at 12 ML/d + Recycling
Economic			30%	0.9	0.7	0.6	0.65	0.9	0.9	0.7	0.7	0.7
Build costs	Capital expenditure (real)	Capital cost for each scenario. Higher capital costs will incur a lower overall score.	10.0%	3	3	1	2	3	3	3	3	4
Operating costs	Ongoing operating expenditure (\$, per annum) (real)	For each option, marginal (i.e. additional) operating costs need to be assessed. Where operating costs for each scenario may be lower than the base case, this will be reflected in the scoring.	15.0%	3	1	2	2	3	3	1	1	1
Industry impact	Impact on local businesses	Assess the impact on businesses (and by extension, economic prosperity) associates with changes in the water supply.	5.0%	3	5	4	3	3	3	5	5	3
Social			20%	0.6	0.96	0.84	0.68	0.6	0.64	0.96	0.92	0.64
Water security	Duration of drought restrictions	Extent to which option addressess water security rule (duration): <i>Duration of drought restrictions should not exceed 5% of the time (water security rules)</i>	4.0%	3	5	4	3	3	3	5	5	3
	Frequency of restrictions	Extent to which option addressess water security rule (frequency): <i>Frequency of restrictions should not exceed 10% of years (water security rules)</i>	4.0%	3	5	4	3	3	3	5	5	3
	Severity of restrictions	Extent to which option addressess water security rule (severity): <i>Severity of restrictions should not exceed 10% that is, the system should be able to meet 90% of unrestricted (water security rules)</i>	4.0%	3	5	4	3	3	3	5	5	3
Health impact	Impact on mental health of residents of reduced periods of water restrictions	Implement a coordinated water cycle management that delivers adequate and sustainable water services such as safe and reliable drinking water and wastewater services for the community	4.0%	3	5	4	3	3	3	5	5	3
Amenity	Impact on public amenity	Enhance water management to be more resilient to the impacts of drought and water restrictions that will provide a water resource for green infrastructure projects that support community amenity and wellbeing and urban cooling	4.0%	3	4	5	5	3	4	4	3	4
Environment			30%	0.9	0.81	0.84	0.75	0.9	0.96	0.81	0.75	0.81
Effluent management environmental impact (effluent water quality)	Discharge to environment	Effluent management during the operational phase to minimise impact to soil, plants and the surrounding environment (rivers, ocean etc)	6.0%	3	4	4	5	3	4	4	3	4
Heritage impact	Impact or construction process on heritage sites	Extent to which the scenarios may have an impact (or potential impact) on aboriginal cultural heritage sites or on historic heritage sites	6.0%	3	4	3	3	3	3	4	4	4
Ecological impact during construction	Impact on local flora and fauna	Increase the preservation and restoration of ecologically sensitive areas during the construction phase	3.0%	3	4	3	2	3	3	4	4	4
Ecological impact during operation	Impact on local flora and fauna	Increase the preservation and restoration of ecologically sensitive areas during the operation phase	3.0%	3	3	3	3	3	3	3	3	3
Energy intensiveness	Extent to which solutions will be energy intensive	Minimise energy intensive requirements for each scenario, which have cost as well as emissions impacts (depending on energy source)	12.0%	3	1	2	1	3	3	1	1	1
Governance			20%	0.6	0.57	0.36	0.46	0.6	0.6	0.57	0.57	0.57
Fiscal responsibility and resilience	Funding sources	Extent to which capital funding can be obtained from multiple sources, other than just Council funding.	3.0%	3	3	2	2	3	3	3	3	3
Planning and environmental approvals	Complexity of planning and environmental approvals required	Degree of State Environmental and Planning Approvals required in terms of timelines and cost.	3.0%	3	3	1	3	3	3	3	3	3
Legislation	Option achievable or supported by existing legislation	Whether each option can be delivered within the existing State legislative framework	3.0%	3	3	2	3	3	3	3	3	3
Public acceptance	Level of public acceptance	Extent to which the community is likely to be supportive of each option	3.0%	3	2	3	2	3	3	2	2	2
Delivery timeframe	Time required to deliver project	Total amount of time (years, months) required for full delivery of each option (planning, design, construction)	4.0%	3	4	1	2	3	3	4	4	4
Cost impact for ratepayers	Average annual change in resident rates as a result of the option (% and \$)	Expected cost to ratepayers associated with each option in terms of average changes to household rates or other charges	4.0%	3	2	2	2	3	3	2	2	2
Score			100%	3.00	3.04	2.64	2.54	3.00	3.10	3.04	2.94	2.72