

# Assessment Criteria

## Eyre Peninsula Desalination Plant Project – Site Selection Committee

|               |        |        |                           |                                                                                                                                                                                                        |       |
|---------------|--------|--------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Environmental | 26.85% | Marine | Outfall                   | Proximity to State marine parks (and consideration of zoning within marine park), protected marine species and habitats and aquaculture industry, e.g., sanctuaries, protection zones                  | 3.15% |
|               |        |        |                           | Potential for direct environmental impact in operation which will require further consideration                                                                                                        | 3.00% |
|               |        |        |                           | Potential for indirect environmental impact in operation which will require further consideration                                                                                                      | 2.47% |
|               |        |        | Intake                    | Proximity to State marine parks (and consideration of zoning within marine park), protected marine species and habitats and aquaculture industry, e.g., sanctuaries, protection zones, nursery grounds | 3.00% |
|               |        |        |                           | Potential for direct environmental impact in operation which will require further consideration                                                                                                        | 2.73% |
|               |        |        |                           | Potential for indirect environmental impact in operation which will require further consideration                                                                                                      | 2.32% |
|               |        | Land   | Impact to flora and fauna | Proximity to National and State parks, protected National and State species and habitats and other protected zones (such as water protection zones)                                                    | 2.21% |
|               |        |        | Native vegetation         | Significance of native vegetation on site and pipeline route. Extent of native vegetation clearance and possible re-clearance for maintenance purposes required (and potential costs of clearance)     | 1.69% |
|               |        |        | Visual impacts            | Consideration of visual and light intrusion to nearest neighbours and other user groups both during construction and operations                                                                        | 1.84% |
|               |        |        | Noise                     | Consideration of noise and vibration impacts to fauna both during construction and operations                                                                                                          | 2.06% |
|               |        |        | Surface and groundwater   | Proximity and risk to existing surface and groundwater resources (including critical water supplies) both during construction and operations                                                           | 2.40% |

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| Social and Community | 24.69% | Community          | Tourism              | Proximity to Tourism precincts, including township, recreational fishing areas, nature-based tourist spots                                                              | 1.83% |
|                      |        |                    | Recreational fishing | Extent to which recreational fishing may be affected                                                                                                                    | 2.03% |
|                      |        |                    | Amenity value        | Extent to which building design blends with existing landscape and minimises visual amenity and noise issues to neighbours                                              | 1.69% |
|                      |        |                    |                      | Extent to which accessibility to coastal areas is maintained or enhanced and connectivity to landscape is managed                                                       | 1.66% |
|                      |        |                    | Traffic              | Extent to which traffic may affect site neighbors, access points and adjoining road corridors                                                                           | 0.93% |
|                      |        | Community/Business | Capacity             | Extent to which growth within the customer base network can be accommodated                                                                                             | 2.79% |
|                      |        | Business           | Business/Commercial  | Extent to which either real or perceived direct or indirect environmental impact may have quantifiable commercial consequences for the fishing and aquaculture industry | 3.17% |
|                      |        |                    |                      | Extent to which either real or perceived direct or indirect environmental impact may have quantifiable commercial consequences for SA Water                             | 1.69% |
|                      |        | Customer           | Water Quality        | Minimise impacts to water quality, improved water quality to customers                                                                                                  | 2.83% |
|                      |        |                    | Water Security       | Extent to which water security is delivered to all customers                                                                                                            | 3.21% |
|                      |        | Heritage           | Aboriginal heritage  | Minimise impact to areas of Aboriginal heritage significance and native title                                                                                           | 2.03% |
|                      |        |                    | European heritage    | Minimise impact to areas of European heritage significance                                                                                                              | 0.83% |

|           |        |           |                   |                                                   |       |
|-----------|--------|-----------|-------------------|---------------------------------------------------|-------|
| Financial | 23.46% | Financial | Net Present Value | Net Present Value                                 | 7.49% |
|           |        |           | Construction      | Cost of construction                              | 7.49% |
|           |        |           | Funding           | Funding model is available and to support project | 8.48% |

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| Technical | 13.27% | Operations   | Operational Maintenance          | Access and working space to transfer main and plant, distances to underground services, traffic and repair complexities and response times                                       | 0.85% |
|           |        |              |                                  | Access to outfall and intakes and ability to maintain                                                                                                                            | 1.09% |
|           |        |              |                                  | Suitability of vehicle access for continued operations                                                                                                                           | 0.73% |
|           |        | Construction | Marine Environment               | Potential for direct environmental impact in construction of outfall and intake which will require further consideration (construction method will influence impact potential)   | 1.22% |
|           |        |              |                                  | Potential for indirect environmental impact in construction of outfall and intake which will require further consideration (construction method will influence impact potential) | 1.09% |
|           |        |              | Ocean construction complexity    | Ease of construction – access, conditions                                                                                                                                        | 1.17% |
|           |        |              | Land construction complexity     | Ease of Construction – access, laydown, geotechnical conditions, proximity to existing road/ power/ water                                                                        | 0.97% |
|           |        |              | Road maintenance                 | Extent of maintenance required for access roads during and post construction                                                                                                     | 0.63% |
|           |        |              | Lead times/ construction program | Program risk associated with works                                                                                                                                               | 0.83% |
|           |        | Systems      | System/ Network integration      | Resilience providing operational capacity and supply reliability                                                                                                                 | 1.32% |
|           |        |              | Water Quality management         | Minimise impacts to water quality, improved water quality to customers                                                                                                           | 1.32% |
|           |        | Asset        | Accessibility                    | Ability to access assets and defend against bush fire                                                                                                                            | 0.98% |
|           |        |              | Safety                           | Ability for maintenance staff to safely access assets for maintenance                                                                                                            | 1.07% |

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|          |        |          |                           |                                                                                                                                   |       |
|----------|--------|----------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-------|
| Property | 11.73% | Property | Land availability/ access | Access and working space to main and plant, distances to underground services, traffic and repair complexities and response times | 3.36% |
|          |        |          | Land                      | Land profile, zoning (land use change)                                                                                            | 1.55% |
|          |        |          | Easements                 | Easement procurement for transfer main / intake and outfall pipes                                                                 | 2.05% |
|          |        |          | Amenity value             | Does not detract from surrounding landscape and property values                                                                   | 2.36% |
|          |        |          | Accessibility             | Access able to accommodate large vehicles, deliveries etc.                                                                        | 2.41% |