



Appendix Q
**Associated Water
Management Strategy**



EIS Appendix Q

The respondent comments provided in this section have been collated from all stakeholder submission comments relating to EIS Appendix Q Associated Water Management Strategy. Please refer to **Attachment A** for copies of all submissions received.

Appendix Q Associated Water Management Strategy

Fairview Water Production

Respondent Comment

Department of Environment and Resource Management state that the proponent should confirm the correct SAR values (minimum, maximum and average) for the Fairview area.

Santos Response

Refer to Table 3.2 of the Associated Water Management Plan (**Attachment D3**) for the SAR values listed in the Beneficial Use Approval for the current irrigation project at Fairview (Min = 10, Target = 20 and Max = 30).

Respondent Comment

Department of Environment and Resource Management state that the water quality data should refer to Electrical Conductivity (EC) rather than TDS for inclusion in the mitigation measures, EM plan and approval conditions.

Santos Response

The Electrical Conductivity (EC) and Total Dissolved Solids (TDS) of water quality samples within the Fairview field are set out below.

	FAIRVIEW						
	Unit	Min	Max	Mean	Median	P75	Sample Count
EC	uS/cm	200	21,500	2,560	2,090	2,780	142
TDS	mg/L	196	15,600	1,550	1,230	1,610	115

They have been considered in preparing the Associated Water Management Plan (**Attachment D3**).

Respondent Comment

Department of Environment and Resource Management request that the EIS describe finalised maximum EC levels proposed for release of CSG effluents to river systems.

Santos Response

Refer to Section 3.3 of the Associated Water Management Plan (**Attachment D3**) for further information on proposed discharge of desalinated water to surface waters as a last resort.

The Plan states Santos will ensure that the desalinated water is of appropriate quality for discharge to surface water.

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The measures to be used include:

- That Discharge water electrical conductivity concentrations are consistent with relevant water quality guidelines and minimum target values (i.e. 325 $\mu\text{S}/\text{cm}$);
- Water is dosed r to ensure that the Sodium Adsorption Ratio is similar to that proposed for irrigation (max 30);
- The temperature is managed to be as close to ambient water temperature as possible;
- Dissolved oxygen levels are at least as high as those measured in stream; and
- Suitable erosion protection works are provided at the proposed discharge point.