

Swan Canning Estuary Water Quality Monitoring Project

Weekly Water Quality Report

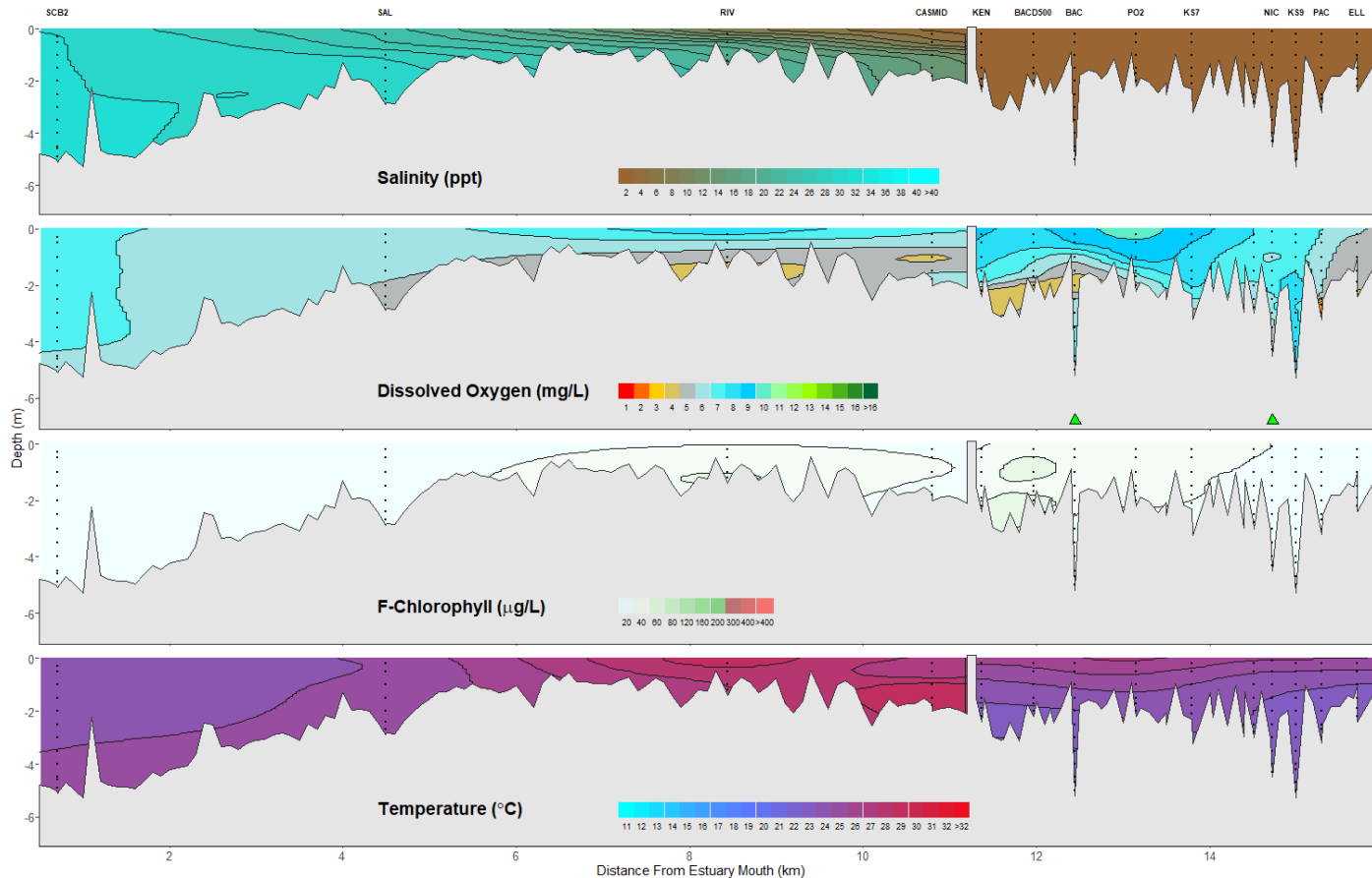
Canning Estuary and Lower Canning River

9 December 2025

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Canning Estuary and Lower Canning River - Water Quality Profiles – 9 December 2025



Date: 9 December 2025

Weather & tide conditions: Conditions were clear and sunny with a south-easterly breeze reaching 6.2 knots. The predicted tides at Barrack St were 1.10 m at 12:58 am (high tide) and 0.54 m at 12:08 pm (low tide). Perth recorded 0 mm of rainfall in the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Bacon St and Nicholson Rd oxygenation plants were operating and providing oxygen in the 24 hours prior to sampling.

Canning Estuary (SCB2 to CASMID): The Canning Estuary was saline at SCB2, brackish over saline at SAL, brackish at RIV, and fresh over brackish at CASMID. Waters were oxygenated to well-oxygenated, except for low oxygen bottom waters at RIV and mid-column waters of CASMID. Chlorophyll fluorescence was low, except for moderate levels at the bottom of RIV. Water temperatures ranged from 23.9 to 28.4 °C.

Lower Canning River (KEN to ELL): The Lower Canning River was fresh. Waters were oxygenated to well-oxygenated, except for low oxygen in bottom waters between KEN and BACD500 and mid-column waters of BAC, and hypoxic bottom waters at PAC. Chlorophyll fluorescence was moderate in the bottom of BACD500 and low elsewhere. Water temperatures ranged from 21.9 to 26.5 °C.

NB: Profile plots are visual interpolations of measured parameters only. Detailed data are available at wir.water.wa.gov.au.

Oxygenation Plant Operational Status:

- ▲ Operating for part or all of the 24 hours prior to sampling
- ▲ Operable but not triggered to operate in the 24 hours prior to sampling
- ▲ Inoperable for part or all of the 24 hours prior to sampling

Definitions:

Salinity – fresh <5, brackish 5-25, saline 25-35, hypersaline >35

Dissolved oxygen – well oxygenated >6 mg L⁻¹, oxygenated >4-6 mg L⁻¹, low oxygen >2-4 mg L⁻¹, hypoxic 0.5-2 mg L⁻¹, anoxic <0.5 mg L⁻¹

Chlorophyll fluorescence (low flow): low < 50 µg L⁻¹, moderate 50-150 µg L⁻¹, high 150-400 µg L⁻¹, extreme > 400 µg L⁻¹