

Swan Canning Estuary Water Quality Monitoring Project

Weekly Water Quality Report

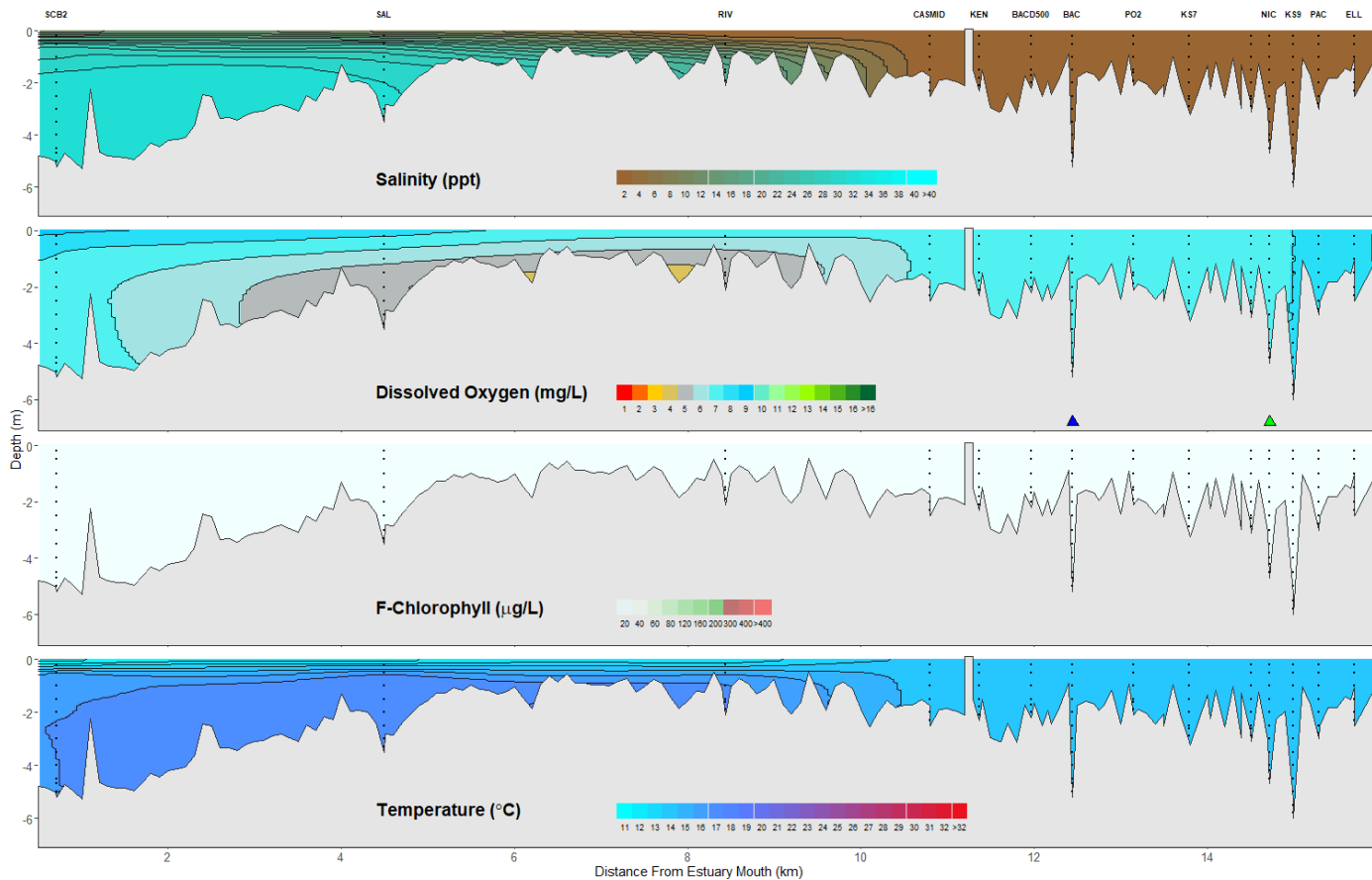
Canning Estuary and Lower Canning River

9 July 2025

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



Date: 9 July 2025

Weather & tide conditions: Conditions were clear with a gentle breeze of up to 2.9 knots. The predicted tides at Barrack St were 1.30m at 9:49 am (high tide) and 0.72 m at 8:37 pm (low tide). Perth recorded 21 mm of rainfall in the 8 days prior to sampling (Bureau of Meteorology).*

*Sampling was postponed by 1 day due to inclement weather on 7th July.

Oxygenation: The Bacon St oxygenation plant was operable but not triggered and the Nicholson Rd oxygenation plant was triggered to provide 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 at CASMID. Waters were oxygenated or well oxygenated and chlorophyll fluorescence was low. Water temperatures ranged from 11.5 to 16.7 °C.

Lower Canning River (KEN to ELL): The Lower Canning River was fresh, waters were well oxygenated and chlorophyll fluorescence was low. Water temperatures ranged from 13.2 to 13.7 °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