

Swan Canning Estuary Water Quality Monitoring Project

Weekly Water Quality Report

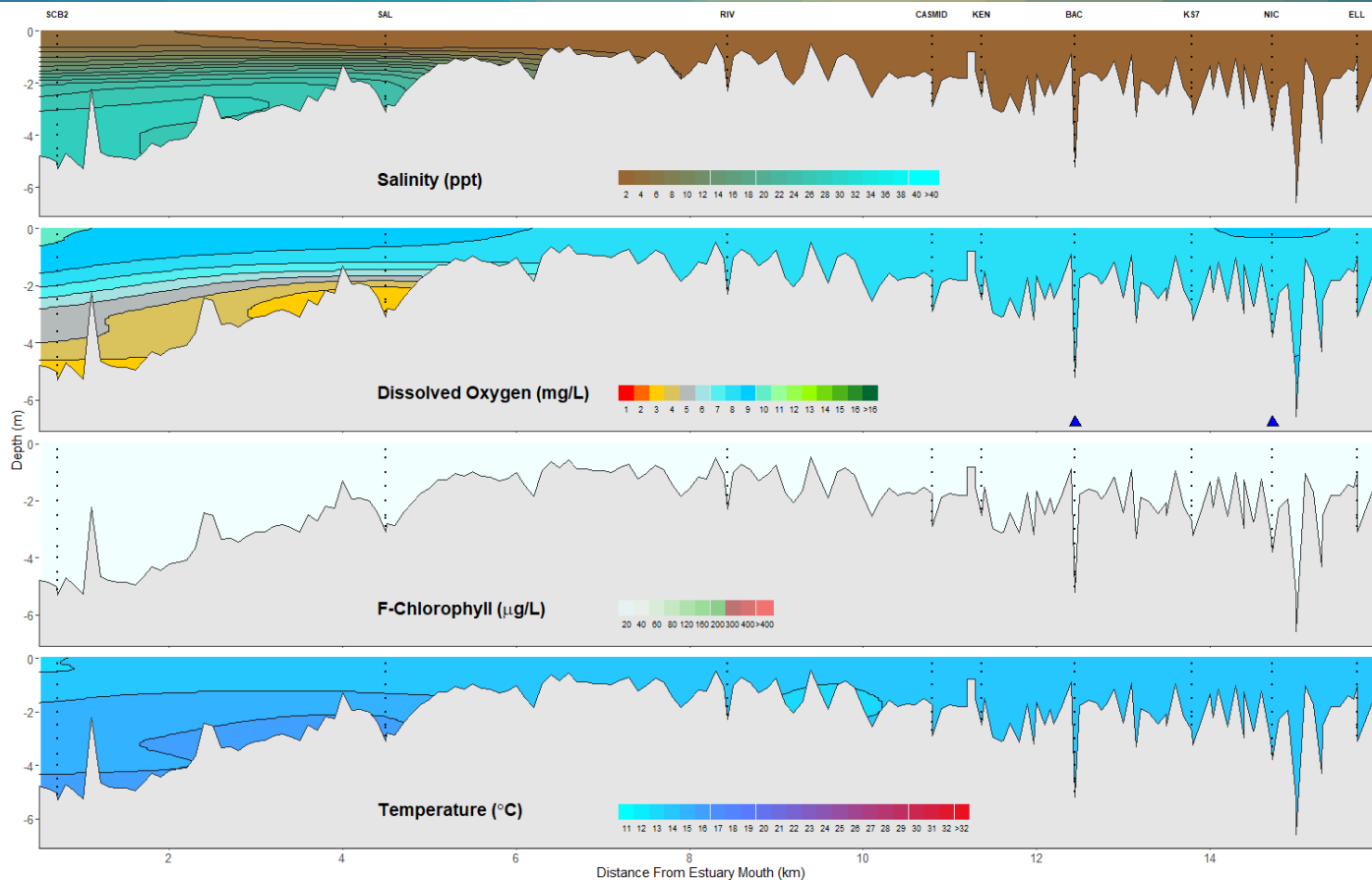
Canning Estuary and Lower Canning River

5 August 2025

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Canning Estuary and Lower Canning River - Water Quality Profiles – 5 August 2025



Date: 5 August 2025

Weather & tide conditions: Conditions were overcast with a north-easterly breeze of up to 4.5 knots. The predicted tides at Barrack St were 1.18 m at 7:54 am (high tide) and 0.69 m at 7:05 pm (high tide). Perth recorded 50.6 mm of rainfall in the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Bacon St and Nicholson Rd oxygenation plants were operable but not triggered to provide oxygen in the 24 hours prior to sampling.

Canning Estuary (SCB2 to RIV): The Canning Estuary was fresh over saline at SCB2, fresh over brackish at SAL, and fresh from RIV - CASMID. Waters were oxygenated or well oxygenated except for bottom waters at SCB2 and SAL which were low in oxygen. Chlorophyll fluorescence was low. Water temperatures ranged from 12.9 to 15.3 °C.

Lower Canning River (KEN to PO2): The Lower Canning River was fresh and well oxygenated, with low chlorophyll fluorescence. Water temperatures ranged from 13.2 to 13.3 °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