

Swan Canning Estuary Water Quality Monitoring Project

Weekly Water Quality Report

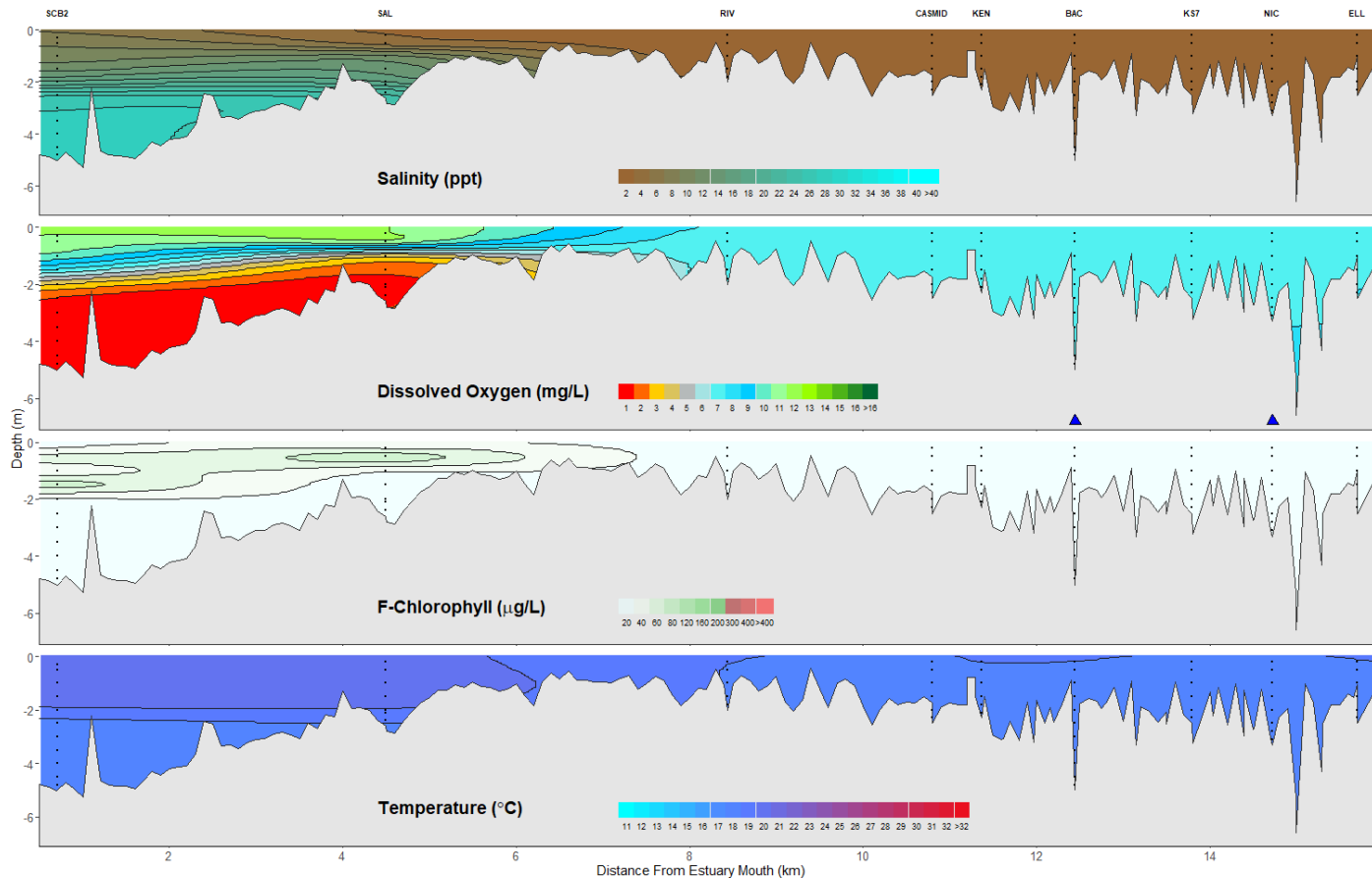
Canning Estuary and Lower Canning River

1 October 2025

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Canning Estuary and Lower Canning River - Water Quality Profiles – 1 October 2025



Date: 1 October 2025

Weather & tide conditions: Conditions were partly cloudy with a variable breeze up to 5.6 knots. The predicted tides at Barrack St were 1.0 m at 4:10 am (high tide) and 0.6 m 4:14 pm (low tide). Perth recorded 2.4 mm of rainfall in the 8 days 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 CASMID): The Canning Estuary was brackish over saline at SCB2, fresh over brackish at SAL, and fresh from RIV to CASMID. Waters were well oxygenated except for hypoxic bottom waters at SCB2 and SAL. Chlorophyll fluorescence was moderate in surface waters at SCB2 and subsurface waters at SAL. Water temperatures ranged from 17.1 to 19.9 °C.

Lower Canning River (KEN to ELL): The Lower Canning River was fresh and well oxygenated with low chlorophyll fluorescence throughout. Water temperatures ranged from 17.1 to 18.1 °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