

Swan Canning Estuary Water Quality Monitoring Project

Weekly Water Quality Report

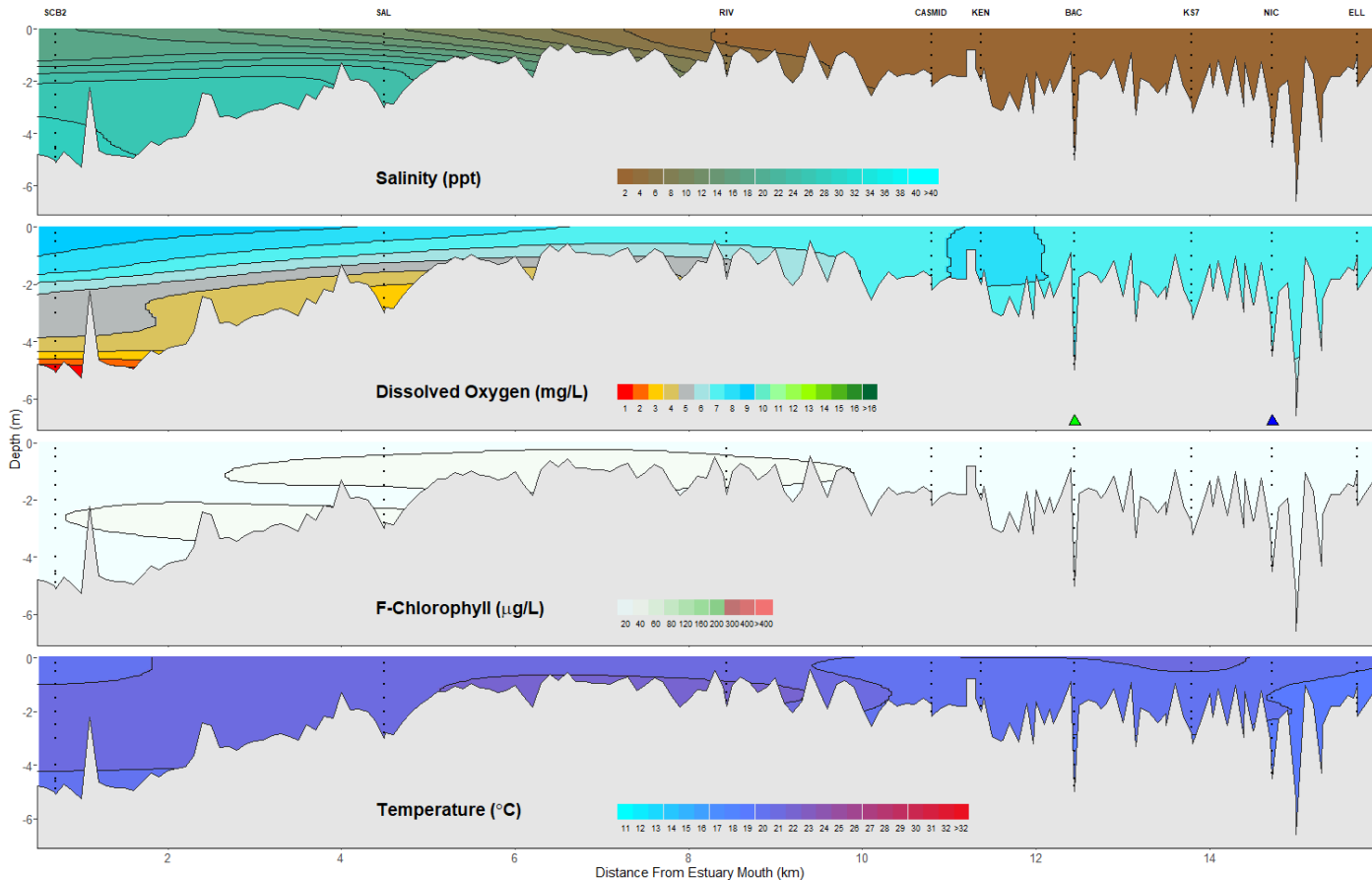
Canning Estuary and Lower Canning River

28 October 2025

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Canning Estuary and Lower Canning River - Water Quality Profiles – 28 October 2025



Date: 28 October 2025

Weather & tide conditions: Conditions were clear with a north easterly breeze up to 11.8 knots. The predicted tides at Barrack St were 1.05 m at 1:27 am (high tide) and 0.58 m 13:28 pm (low tide). Perth recorded 7 mm of rainfall in the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Bacon St oxygenation plant was operating and providing oxygen in the 24 hours prior to sampling, while the Nicholson Rd oxygenation plant was operable but not triggered to provide oxygen.

Canning Estuary (SCB2 to CASMID): The Canning Estuary was brackish over saline at SCB2, brackish at SAL, fresh over brackish at RIV, and fresh at CASMID. Waters were oxygenated to well oxygenated except for bottom waters of SCB2 which were hypoxic, and SAL which were low in oxygen. Chlorophyll fluorescence was low and water temperatures ranged from 19.5 to 22.1 °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 18.7 to 20.5 °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