



Department of Biodiversity,
Conservation and Attractions



Biodiversity and
Conservation Science

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Swan Canning Estuary Water Quality Monitoring Project

Weekly Water Quality Report

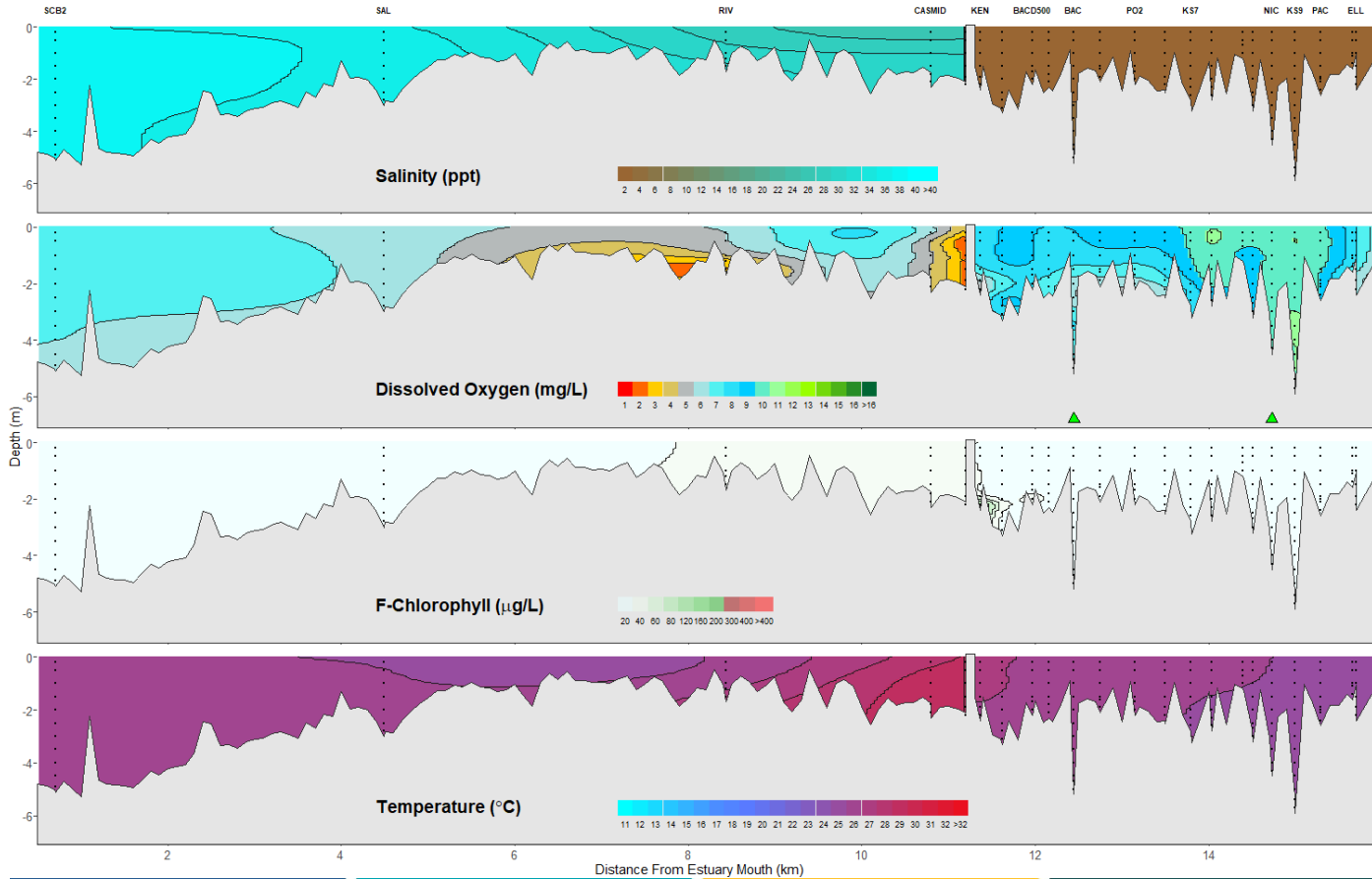
Canning Estuary and Lower Canning River

18 February 2025

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Canning Estuary and Lower Canning River - Water Quality Profiles – 18 February 2025



Date: 18 February 2025

Weather & tide conditions: Conditions were overcast with a predominantly easterly breeze of up to 8.6 knots. The predicted tides at Barrack St were 0.67 m at 6:45 am (low tide) and 1.02 m at 2:53 pm (high tide). Perth recorded no rainfall in the week prior to sampling (Bureau of Meteorology).

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

Canning Estuary (SCB2 to CASMID): The Canning Estuary was hypersaline at SCB2, saline from SAL to RIV and brackish over saline at CASMID. Waters were oxygenated or well oxygenated, except for bottom waters at RIV which were hypoxic. Chlorophyll fluorescence was low and water temperatures ranged from 24.9 to 29 °C at the time of sampling.

Lower Canning River (KEN to ELL): The Lower Canning River was fresh, however slightly elevated salinities persisted between KEN and BACU300 due to the intrusion of saline waters around the Kent St Weir on 23 and 24 January 2025. Waters were oxygenated or well oxygenated, chlorophyll fluorescence was moderate in bottom waters at KEN and water temperatures ranged from 24.3 to 26.4 °C at the time of sampling.

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