Swan Canning Estuary Water Quality Monitoring Project

Weekly Water Quality Report

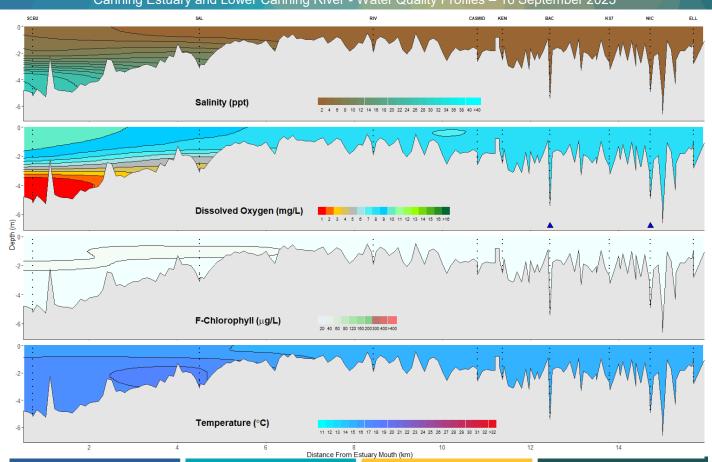
Canning Estuary and Lower Canning River

16 September 2025

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Canning Estuary and Lower Canning River - Water Quality Profiles - 16 September 2025



Date: 16 September 2025

<u>Weather & tide conditions</u>: Conditions were cloudy with a northerly breeze up to 3.4 knots. The predicted tides at Barrack St were 1.05 m at 5:23 am (high tide) and 0.56 m at 5:30 pm (low tide). Perth recorded 23.4 mm of rainfall in the week prior to sampling (Bureau of Meteorology).

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

<u>Canning Estuary (SCB2 to RIV)</u>: The Canning Estuary was fresh over saline at SCB2, fresh over brackish at SAL, and fresh from RIV to CASMID. Waters were well-oxygenated except for bottom waters at SCB2 which were hypoxic, and SAL, which were low in oxygen. Chlorophyll fluorescence was low and water temperatures ranged from 14.4 to 17.1 °C.

<u>Lower Canning River (KEN to ELL)</u>: The Lower Canning River was fresh and well oxygenated with low chlorophyll fluorescence throughout. Water temperatures ranged from 14.2 to 14.5 °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

<u>Dissolved oxygen</u> – 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}

<u>Chlorophyll fluorescence (low flow)</u>: low < 50 μ g L⁻¹, moderate 50-150 μ g L⁻¹, high 150-400 μ g L⁻¹, extreme > 400 μ g L⁻¹

Recommended reference: Department of Biodiversity, Conservation and Attractions 2025. Swan Canning Estuary water quality profile report, Canning Estuary and Lower Canning River 16 September 2025. Rivers and Estuaries Science (https://www.dpaw.wa.gov.au/management/swan-canning-riverpark)