

## Swan Canning Estuary Water Quality Monitoring Project

Weekly Water Quality Report

**Canning Estuary and Lower Canning River** 

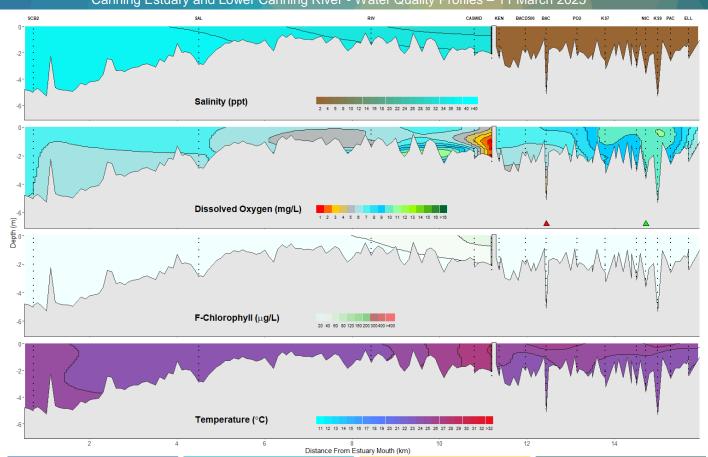
11 March 2025

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## Canning Estuary and Lower Canning River - Water Quality Profiles - 11 March 2025



**Date**: 11 March 2025

<u>Weather & tide conditions</u>: Conditions were clear with a predominantly easterly breeze of up to 7.5 knots. The predicted tides at Barrack St were 0.62 m at 6:52 am (low tide) and 1.11 m at 9:41 pm (high tide). Perth recorded no rainfall in the week prior to sampling (Bureau of Meteorology).

<u>Oxygenation</u>: The Bacon St oxygenation plant was offline and the Nicholson Rd oxygenation plant was triggered to provide oxygen in the 24 hours prior to sampling.

<u>Canning Estuary (SCB2 to CASMID)</u>: The Canning Estuary was hypersaline from SCB2 to SAL and saline from RIV to CASMID. Waters were oxygenated or well oxygenated, except for subsurface waters at CASMID which were low in oxygen. Chlorophyll fluorescence was moderate in surface waters at CASMID and water temperatures ranged from 23.2 to 27.3 °C at the time of sampling.

<u>Lower Canning River (KEN to ELL)</u>: The Lower Canning River was fresh. Waters were oxygenated or well oxygenated, except for bottom waters at BAC which were low in oxygen. Chlorophyll fluorescence was low. Water temperatures ranged from 23.0 to 25.5 °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

<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  $\mu$ g L<sup>-1</sup>, moderate 50-150  $\mu$ g L<sup>-1</sup>, high 150-400  $\mu$ g L<sup>-1</sup>, extreme > 400  $\mu$ g L<sup>-1</sup>

Recommended reference: Department of Biodiversity, Conservation and Attractions 2025. Swan Canning Estuary water quality profile report, Canning Estuary and Lower Canning River 11 March 2025. Rivers and Estuaries Science (https://www.dpaw.wa.gov.au/management/swan-canning-riverpark)