

Swan Canning Estuary Water Quality Monitoring Project

Weekly Water Quality Report

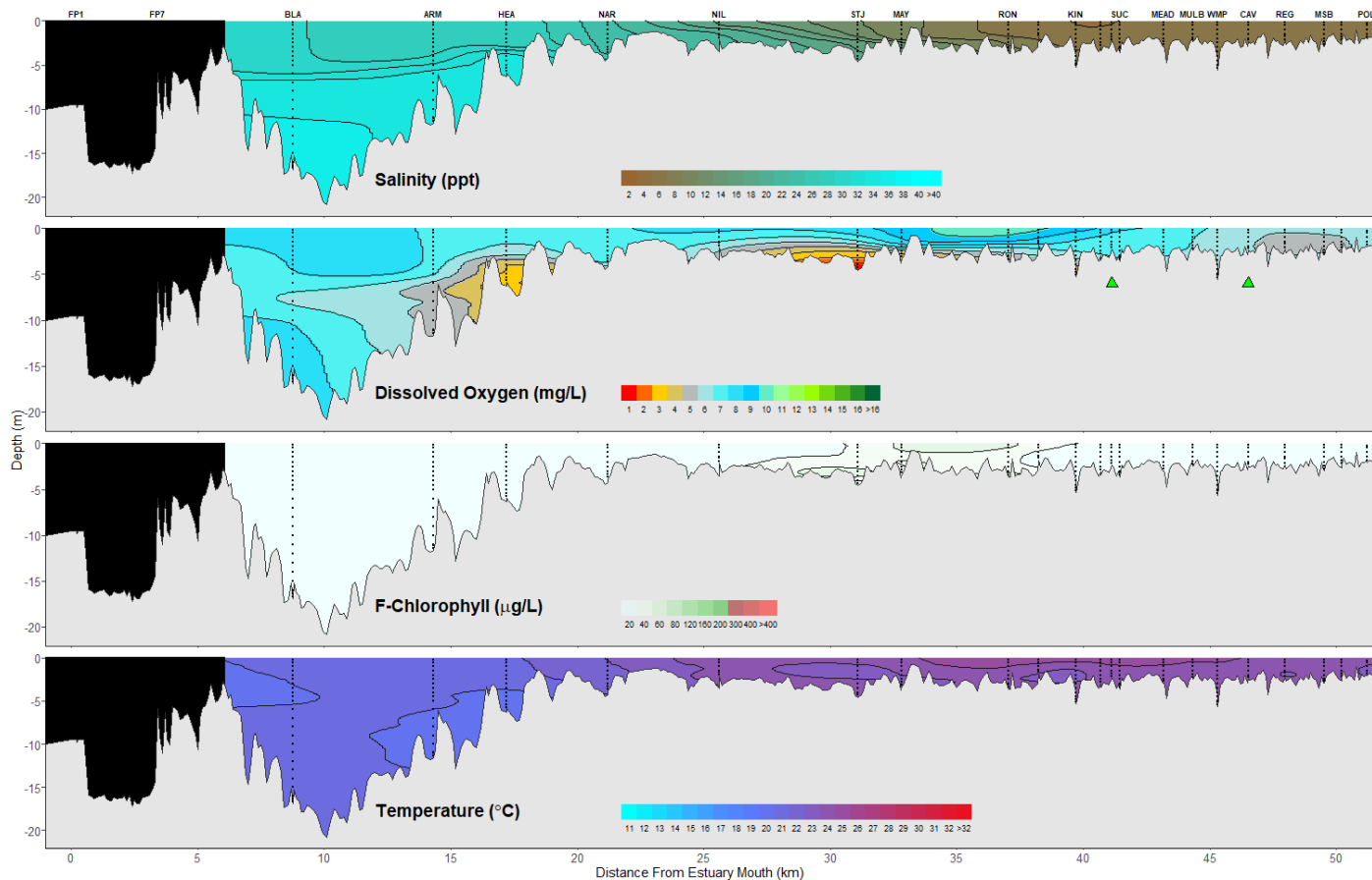
Lower Swan Canning Estuary to Upper Swan Estuary

10 November 2025

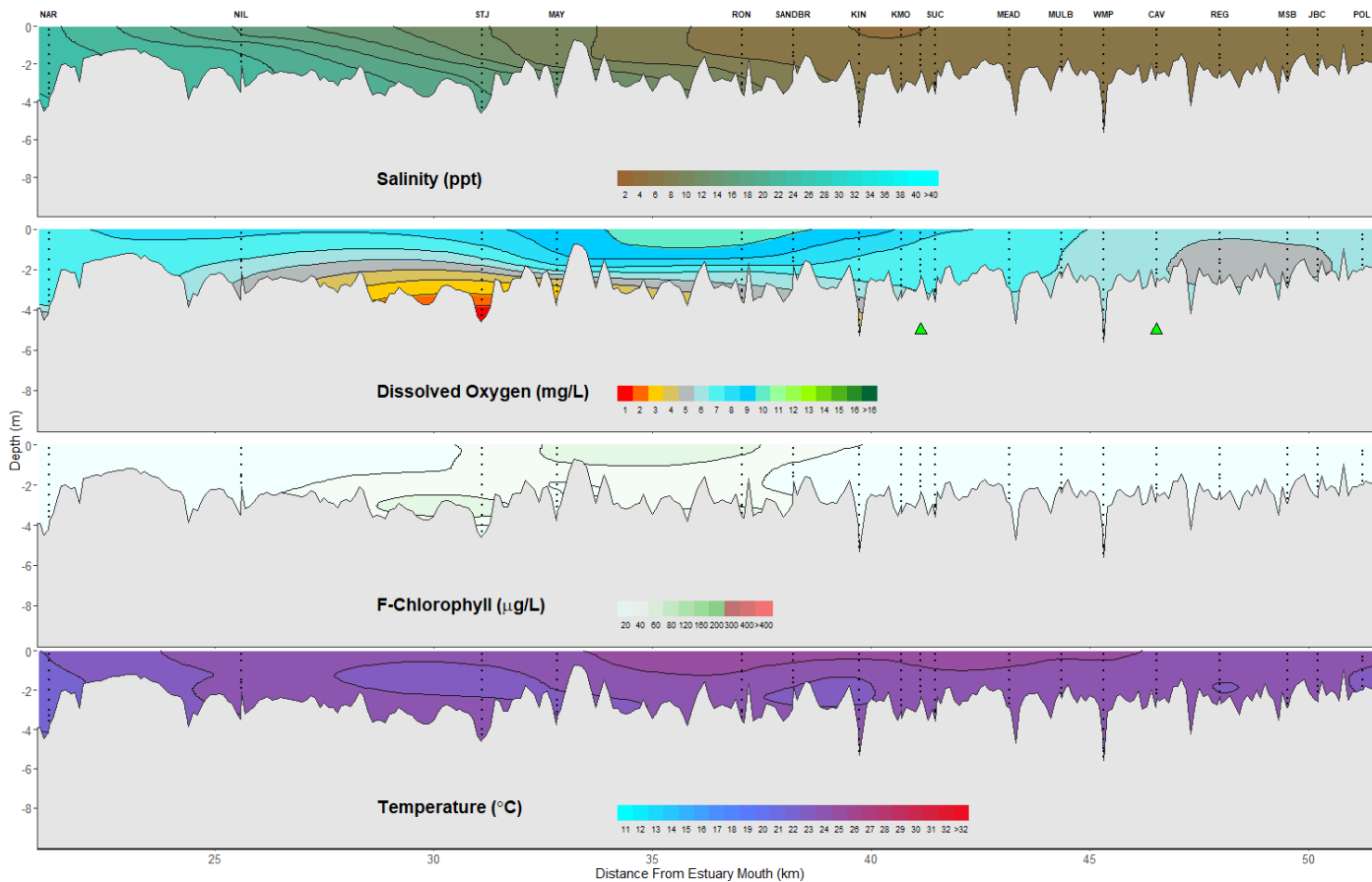
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Swan Canning Estuary - Water Quality Profiles – 10 November 2025



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Date: 10 November 2025

Weather & tide conditions: Conditions were clear with a north easterly breeze of up to 6.5 knots. The predicted tides at Barrack St were 1.11 m at 1:15 am (high tide) and 0.5 m at 1:02 pm (low tide). Perth recorded 7.2 mm of rainfall in the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Caversham and Guildford oxygenation plants were operable and triggered to provide oxygen in the 24 hours prior to sampling.

Lower Swan Canning Estuary (FPI to NAR): The Lower Swan Canning Estuary was saline from BLA to HEA and brackish at NAR. Waters were oxygenated, except at HEA where bottom waters were low oxygen. Chlorophyll fluorescence was low throughout and water temperatures ranged from 19.6 to 22 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was brackish and oxygenated, except for bottom waters at STJ (low oxygen – anoxic) and MAY (low oxygen). Chlorophyll fluorescence was moderate in the mid-bottom waters of STJ and RON. Water temperatures ranged from 22.2 to 24.2 °C.

Upper Swan Estuary (SANDBR to POL): The Upper Swan Estuary was fresh and oxygenated, except at KIN where bottom waters were brackish and low oxygen. Chlorophyll fluorescence was low and water temperatures ranged from 22.9 to 24.9 °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 >36 ppt
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

Recommended reference: Department of Biodiversity, Conservation and Attractions, 2025. *Swan Canning Estuary water quality profile report, Lower Swan Canning Estuary to Upper Swan Estuary 10 November 2025*. Rivers and Estuaries Science (<https://www.dpaw.wa.gov.au/management/swan-canning-riverpark>)