



Swan Canning Estuary Water Quality Monitoring Project

Weekly Water Quality Report

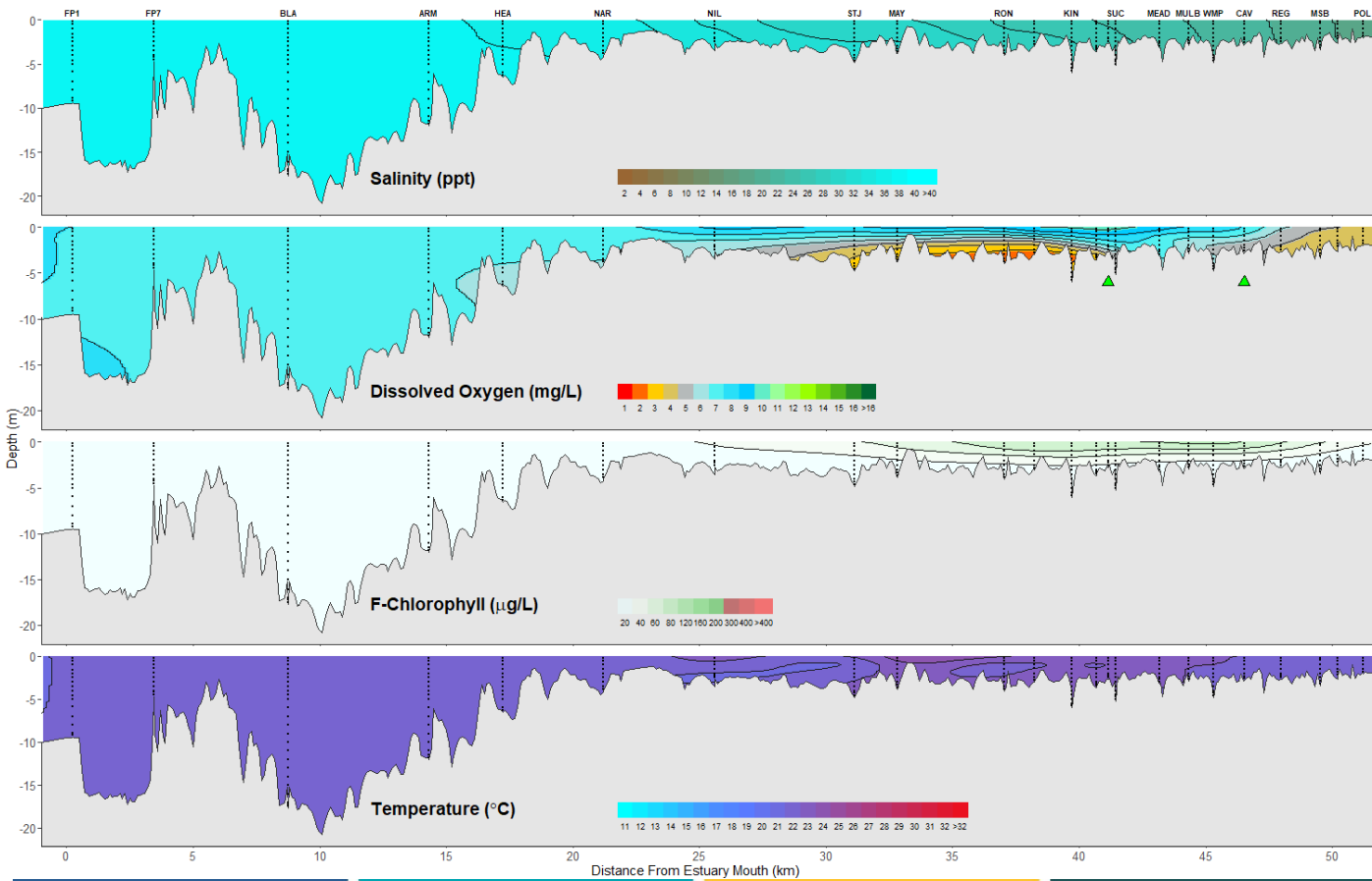
Lower Swan Canning Estuary to Upper Swan Estuary

7 April 2026

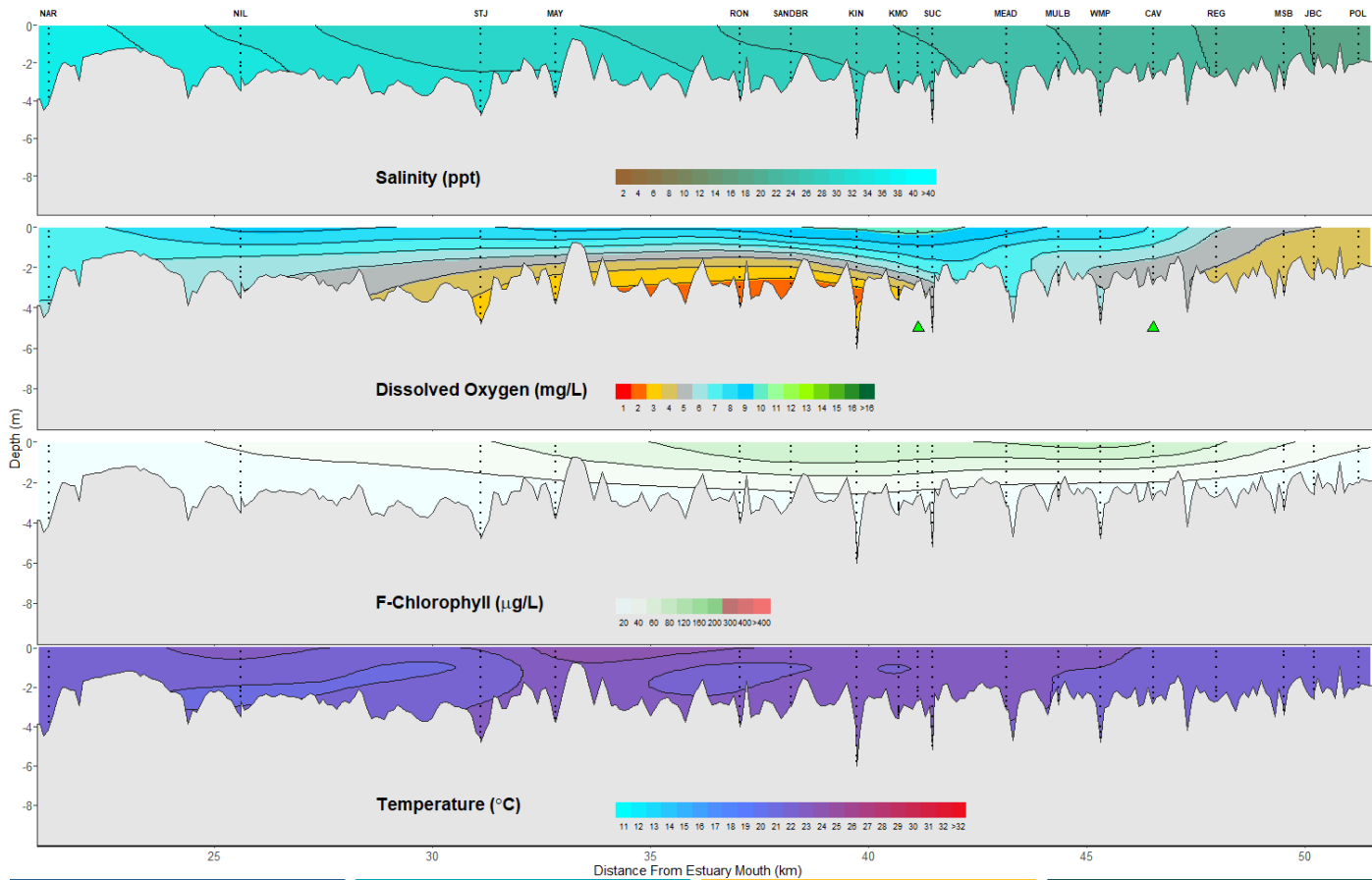
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Swan Canning Estuary - Water Quality Profiles – 7 April 2026



Middle and Upper Swan Estuary - Water Quality Profiles – 7 April 2026



Date: 7 April 2026

Weather & tide conditions: Conditions were cloudy with variable winds up to 6.9 knots. The predicted tides at Barrack St were 0.75 m at 3:30 am (low tide) and 1.21 m at 1:55 pm (high tide). Perth recorded no rainfall in the week prior to sampling (Bureau of Meteorology).

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

Lower Swan Canning Estuary (FP1 to NAR): The Lower Swan Canning Estuary was saline and oxygenated to well-oxygenated throughout. Chlorophyll fluorescence was low and water temperatures ranged from 21.1 to 21.8 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was saline throughout. Waters were oxygenated to well-oxygenated, except for low oxygen bottom waters at STJ, and hypoxic bottom waters from MAY to RON. Chlorophyll fluorescence was low, with moderate levels detected in surface waters at MAY and RON. Water temperatures ranged from 20.9 to 23.3 °C.

Upper Swan Estuary (SANDBR to POL): The Upper Swan Estuary was saline at SANDBR, brackish over saline from KIN to VIT, and brackish from SUC to POL. Surface waters were well-oxygenated SANDBR to KMO, with hypoxic and low oxygen bottom waters. Waters were oxygenated to well-oxygenated throughout the water column from VIT to CAV and low oxygen from REG to POL. Chlorophyll fluorescence was low with moderate levels in surface waters from SANDBR to CAV, and high levels detected at SANDBR and CAV. Water temperatures ranged from 21.5 to 23 °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