



Department of Biodiversity,
Conservation and Attractions



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Swan Canning Estuary Water Quality Monitoring Project

Weekly Water Quality Report

Lower Swan Canning Estuary to Upper Swan Estuary

3rd August 2020

Prepared by

Rivers and Estuaries Science
Biodiversity and Conservation Science
Department of Biodiversity, Conservation and Attractions



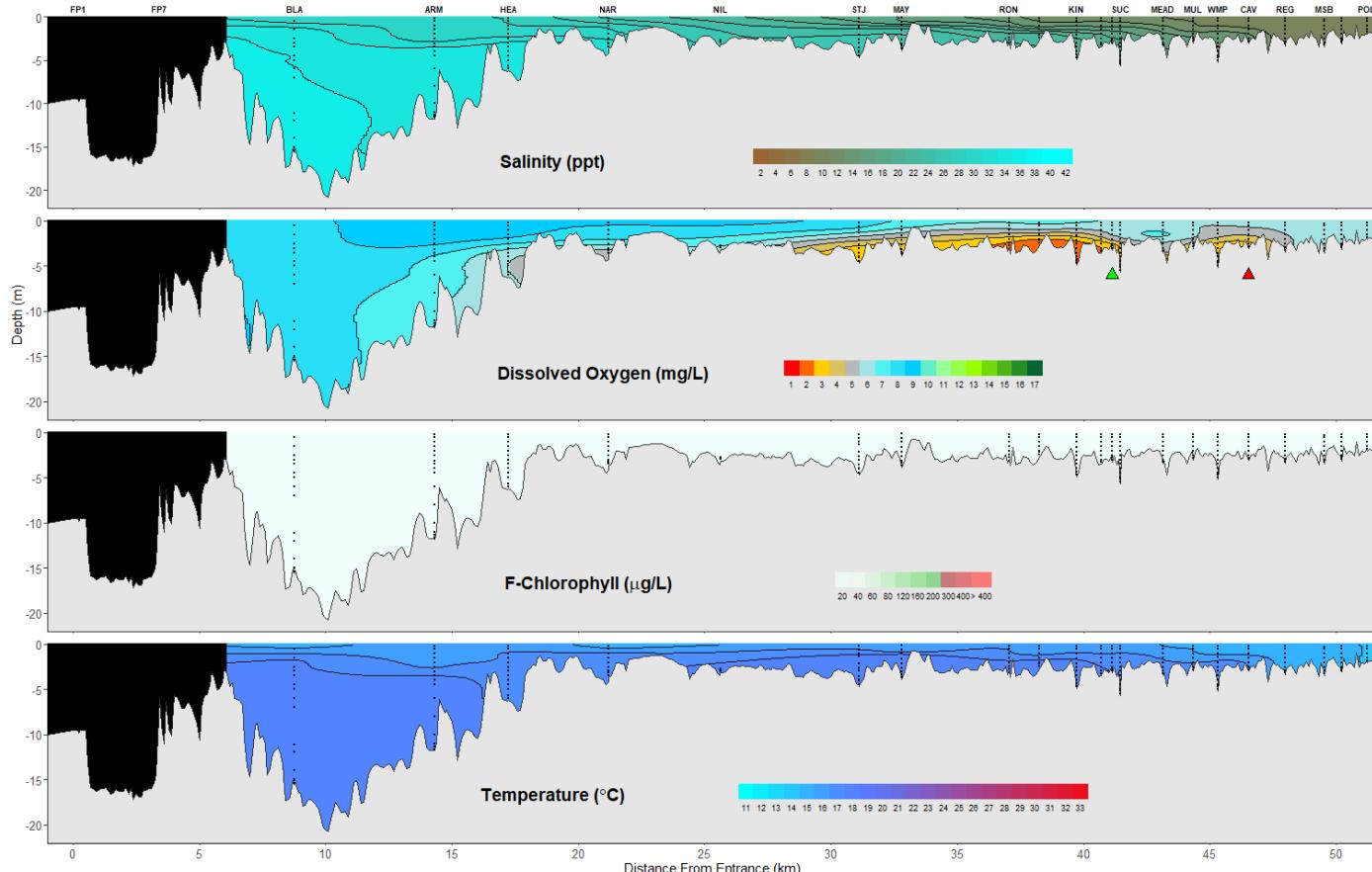
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Swan Canning Estuary- Water Quality Profiles- 3rd August 2020





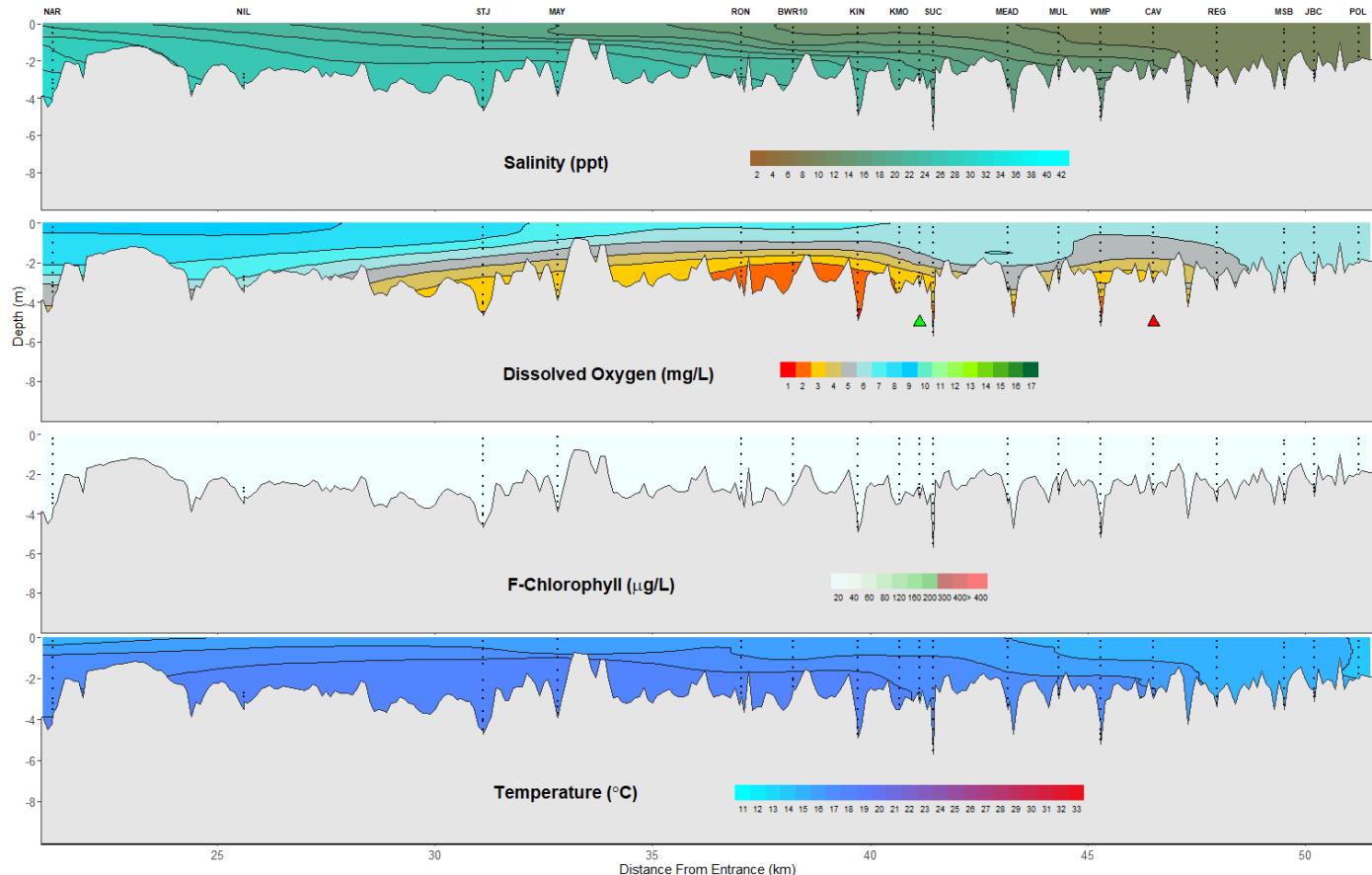
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Middle and Upper Swan Estuary- Water Quality Profiles- 3rd August 2020





Date: 3rd August 2020

Weather & tide conditions: Conditions were overcast with a predominantly easterly breeze of up to 8 knots. The predicted tides at Barrack St were 1.17 m at 10:39 am (high tide) and 0.63 m at 9:12 pm (low tide). Perth recorded 12.8 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

NB: Technical issues with the monitoring vessel meant that sites FP1-FP7 could not be sampled this week.

Oxygenation: The Guildford oxygenation plant was triggered to provide oxygen and the Caversham oxygenation plant was not operational during the 24 hours prior to sampling.

Lower Swan Canning Estuary (BLA to NAR): The Lower Swan Canning Estuary was saline except at NAR which was brackish over saline. Waters were well oxygenated and chlorophyll fluorescence was low throughout this zone. Water temperature ranged from 14.8 to 17.4 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was brackish except at STJ which was brackish over saline. Surface waters were oxygenated or well oxygenated and bottom waters were low in oxygen between STJ and RON. Chlorophyll fluorescence was low throughout this zone. Water temperature ranged from 15.1 to 17.9 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish. Surface waters were oxygenated or well oxygenated and bottom waters were hypoxic between BWR10 and KMO and at SUC and WMP. Chlorophyll fluorescence was low throughout this zone. Water temperature ranged from 13.8 to 17.3 °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
- Dissolved oxygen** – well oxygenated >6mg/L, oxygenated >4-6mg/L, low oxygen >2-4mg/L, hypoxic 0.5-2mg/L, anoxic <0.5mg/L