



# Swan Canning Estuary Water Quality Monitoring Project

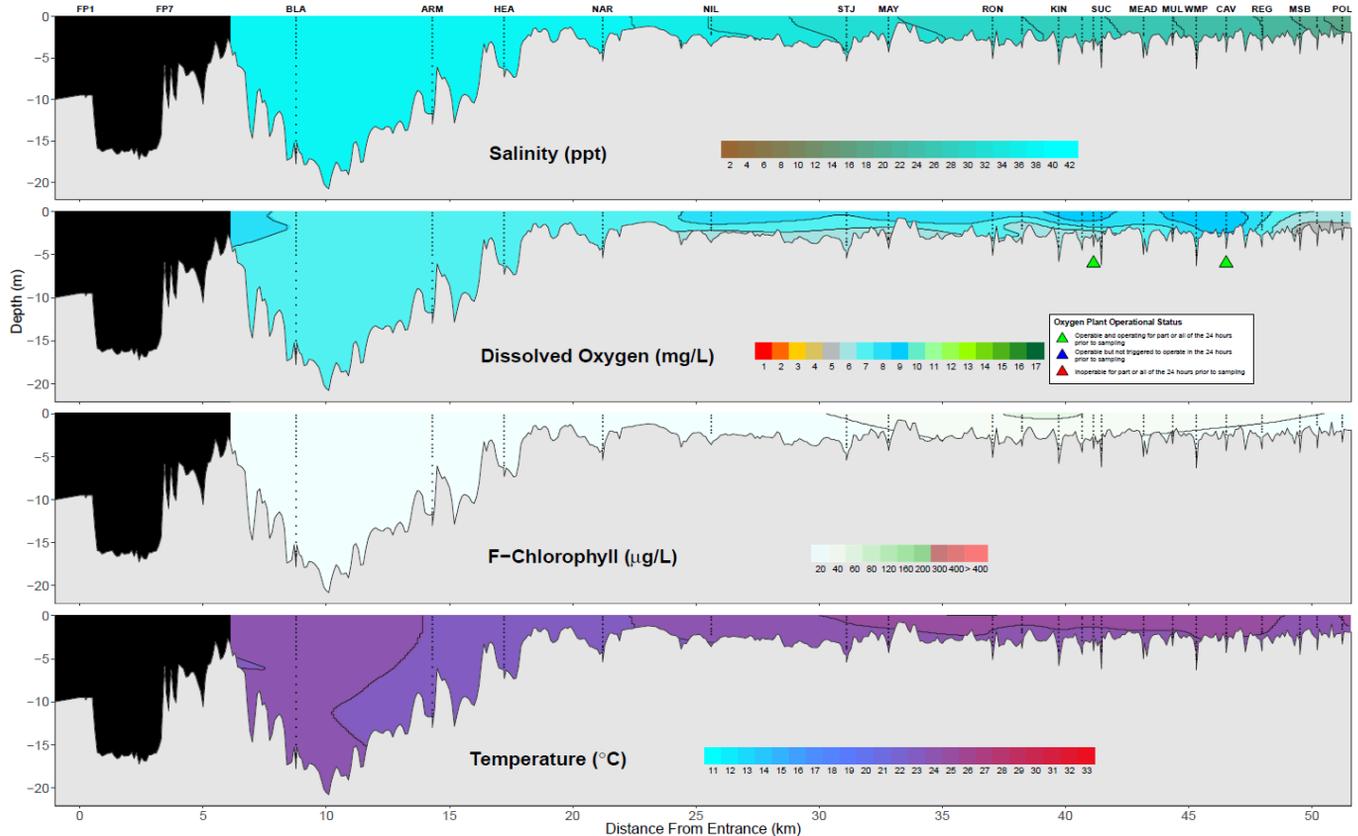
**Weekly Profile Report for the  
Lower to Upper Swan Estuary**

**23<sup>rd</sup> March 2020**

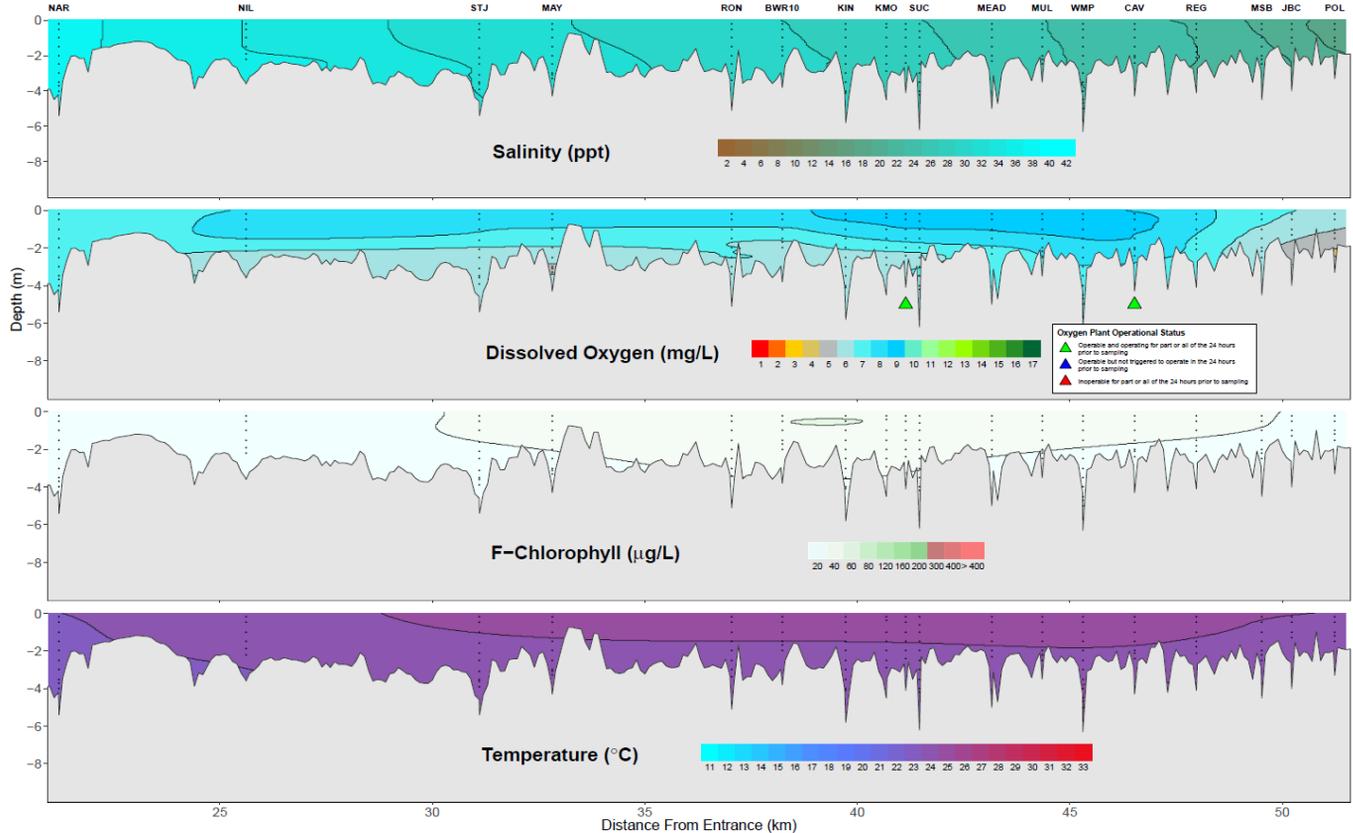
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### Swan River Estuary – Physical-Chemical Profile – 23rd Mar 2020



### Middle and Upper Swan River Estuary – Physical-Chemical Profile – 23rd Mar 2020



Date: 23<sup>rd</sup> March 2020

Weather & tide conditions: Conditions were clear with a predominantly easterly breeze of up to 10 knots. The predicted tides at Barrack St were 0.65 m at 6:24 am (low tide) and 0.85 m at 12:31 pm (high tide). Perth recorded 19.8 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Guildford and Caversham oxygenation plants were both 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, waters were well oxygenated and chlorophyll fluorescence was low throughout this zone. Water temperature ranged from 22.6 to 23.1 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was saline and waters were oxygenated or well oxygenated throughout this zone. Chlorophyll fluorescence was highest at RON indicating higher microalgal activity in that area. Water temperature ranged from 23.2 to 24.9 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was saline from BWR10 to MEAD and brackish from MULB to POL. Waters were oxygenated or well oxygenated throughout this zone. Chlorophyll fluorescence was highest at KMO indicating higher microalgal activity in that area. Water temperature ranged from 23.4 to 24.8 °C.

NB: Profile plots are visual interpolations of measured parameters only. Detailed data are available at [wir.water.wa.gov.au](http://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