



Department of Biodiversity,  
Conservation and Attractions



OFFICIAL  
Biodiversity and  
Conservation Science

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Western Australia.

# Swan Canning Estuary Water Quality Monitoring Project

## Weekly Water Quality Report

### Lower Swan Canning Estuary to Upper Swan Estuary

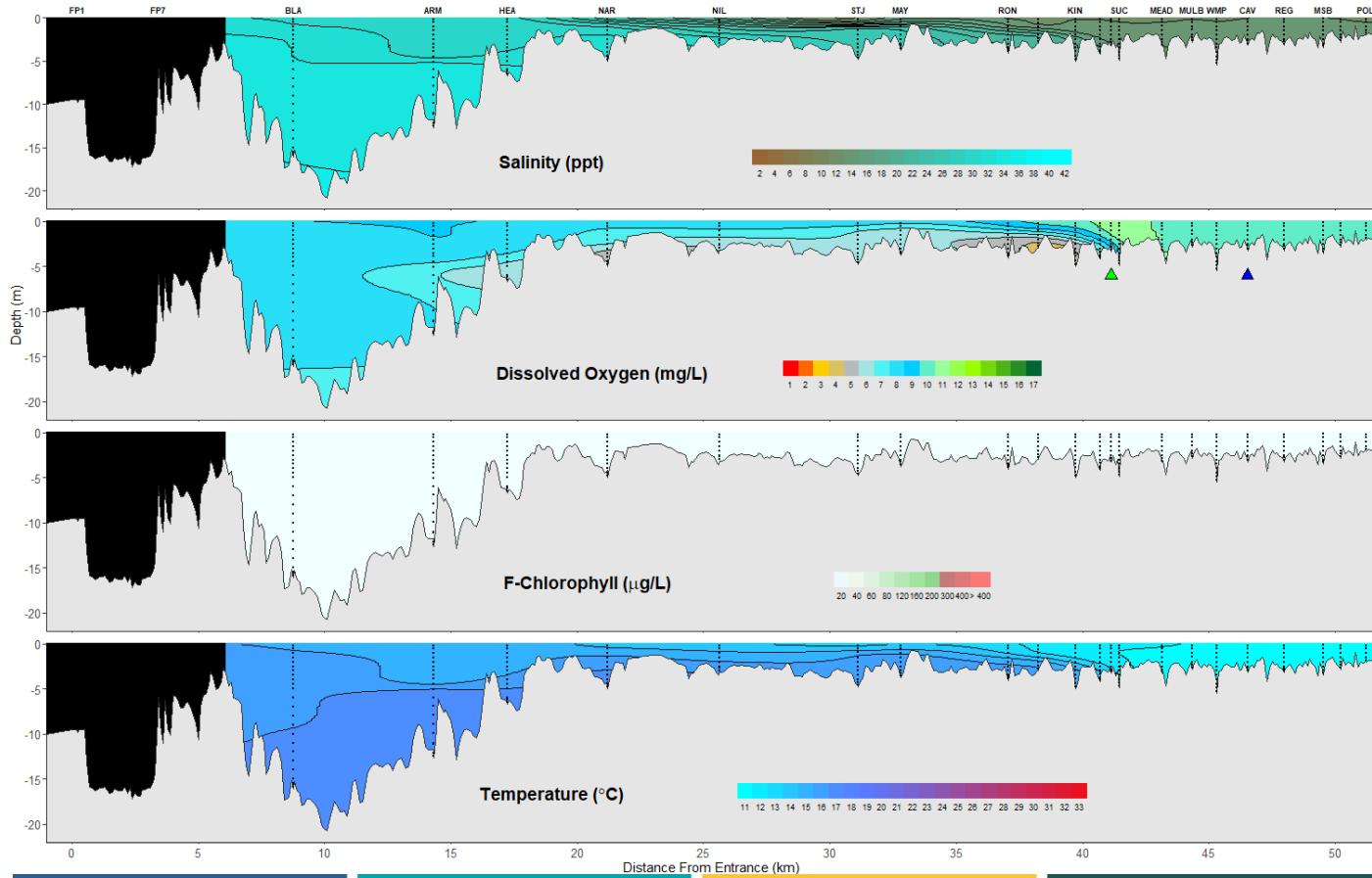
28<sup>th</sup> June 2021

Prepared by

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

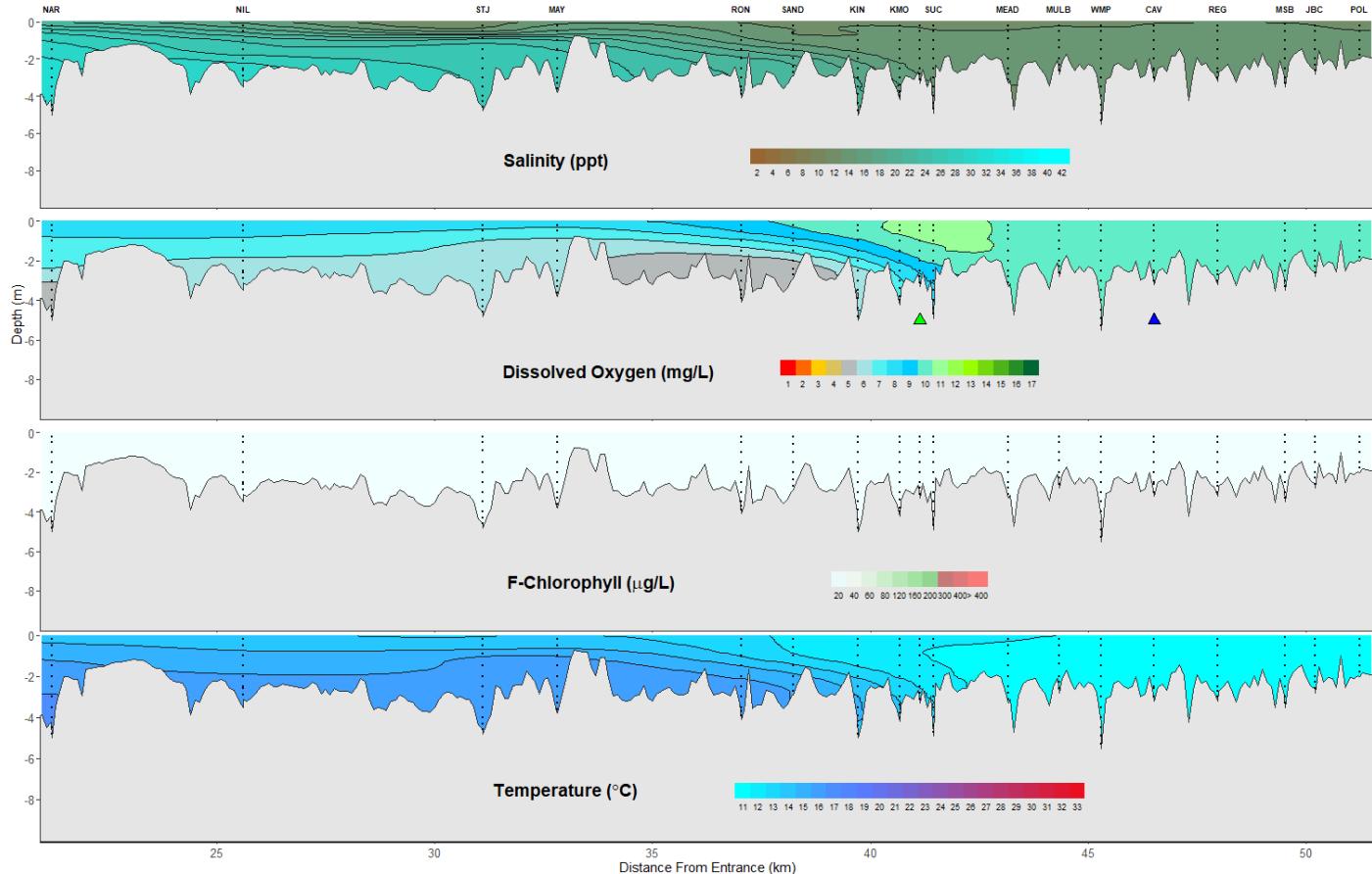


## Swan Canning Estuary- Water Quality Profiles- 28<sup>th</sup> June 2021





## Middle and Upper Swan Estuary- Water Quality Profiles- 28<sup>th</sup> June 2021





Date: 28<sup>th</sup> June 2021

Weather & tide conditions: Conditions were clear with a westerly breeze of up to 14 knots. The predicted tide at Barrack St was 1.34 m at 1:05 pm (high tide). Perth recorded 7 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Guildford oxygenation plant was triggered to provide oxygen and the Caversham oxygenation plant was not triggered to provide oxygen 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 oxygenated or well oxygenated and chlorophyll fluorescence was low throughout this zone. Water temperature ranged from 13.8 to 16.7 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was brackish over saline between NIL and MAY and brackish at RON. Waters were oxygenated or well oxygenated and chlorophyll fluorescence was low throughout this zone. Water temperature ranged from 12.2 to 15.6 °C.

Upper Swan Estuary (SANDBR to POL): The Upper Swan Estuary was brackish. Waters were oxygenated or well oxygenated except bottom waters at SANDBR which were low in oxygen. Chlorophyll fluorescence was low throughout this zone. Water temperature ranged from 10.5 to 15.1 °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

**Recommended reference:** Department of Biodiversity, Conservation and Attractions 2021. *Swan Canning Estuary water quality profile report, Lower Swan Canning Estuary to Upper Swan Estuary 28<sup>th</sup> June 2021. Rivers and Estuaries Science* (<https://www.dpaw.wa.gov.au/management/swan-canning-riverpark>)