



Environmental Monitoring and Reporting Swan River Estuary ~ Weekly profile

by
Aquatic Science Branch, Department of Water and Environmental Regulation

Date: Monday 23rd July 2018

Weather & tide conditions: Conditions were overcast and with up to 90% cloud cover and a predominantly north-westerly breeze of up to 9 knots. The predicted tides at Guildford were 1.10 m (high tide) at 08:41 and 0.70 m (low tide) at 20:06. Perth recorded 30.6 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Caversham oxygenation plant was operational the week prior to sampling, while the Guildford oxygenation plant was not operational.

Lower Swan/Canning Estuary (FP7 to NAR): The Lower Swan Estuary was saline from FP7 to BLA, brackish over saline from ARM to HEA and brackish at NAR. Water was well oxygenated to oxygenated throughout. Water temperature ranged from 14.8 to 17.0 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was brackish throughout. Water was mostly well oxygenated to oxygenated throughout with the exception of bottom water that was low in oxygen at STJ and hypoxic at MAY. Water temperature ranged from 14.4 to 15.9 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish throughout with the exception of fresh surface water at BWR10 and KMO. Water was well oxygenated throughout. Water temperature ranged from 14.3 to 14.8 °C.

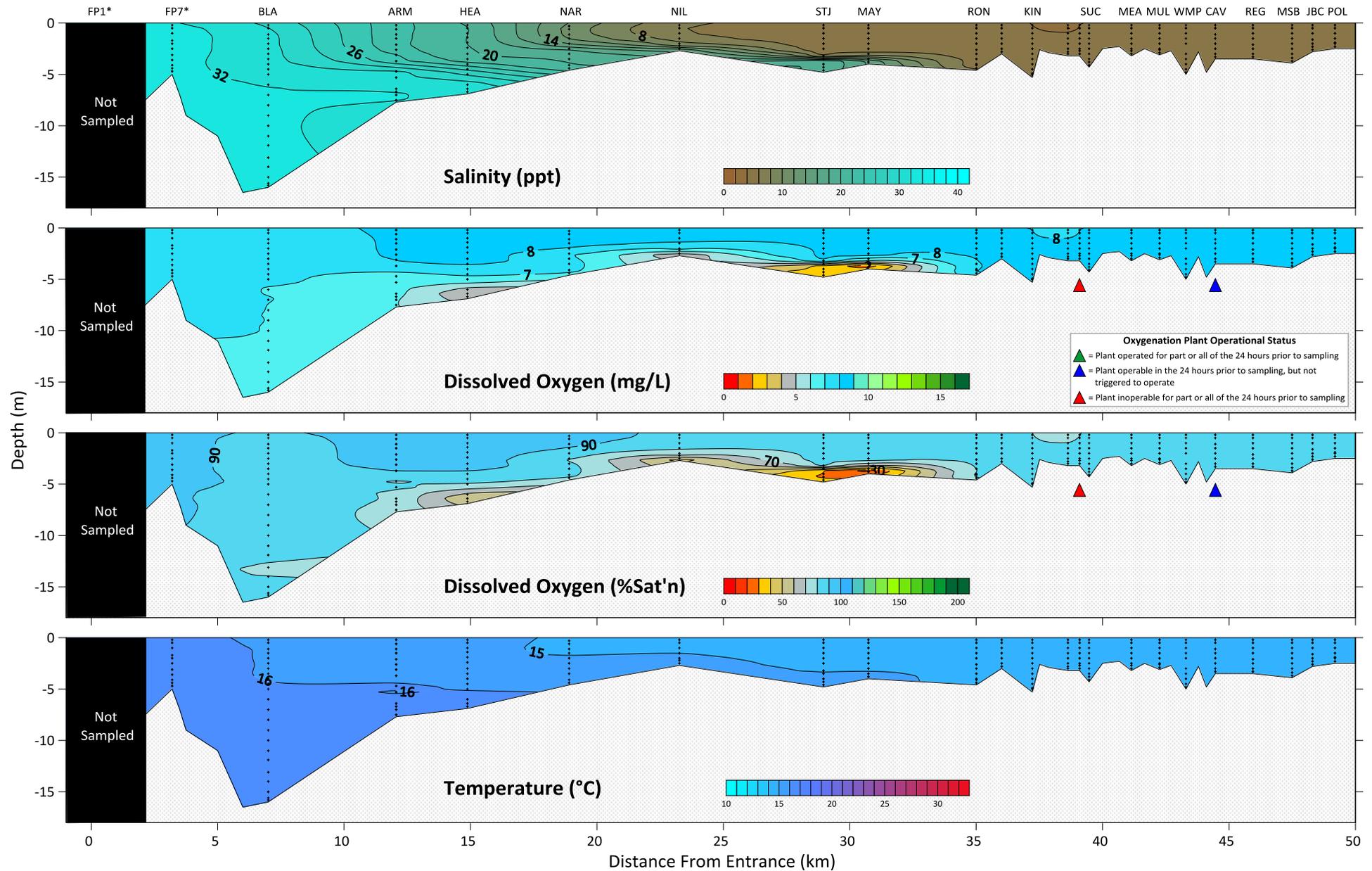
Definitions:

Salinity – fresh <5ppt, brackish 5-25ppt, saline 25-35ppt, hypersaline >35ppt

Dissolved oxygen – well oxygenated >6 mg/L
oxygenated >4 to 6 mg/L, low oxygen >2 to 4 mg/L,
hypoxic >0.5 to 2.0 mg/L, near anoxic <0.5 mg/L

Swan River Estuary - Physical-Chemical Profile - 23rd July 2018

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*Data for sites FP1 (Harbour Entrance) and FP7 (Fremantle Bridge) are supplied courtesy of the Fremantle Port Authority