



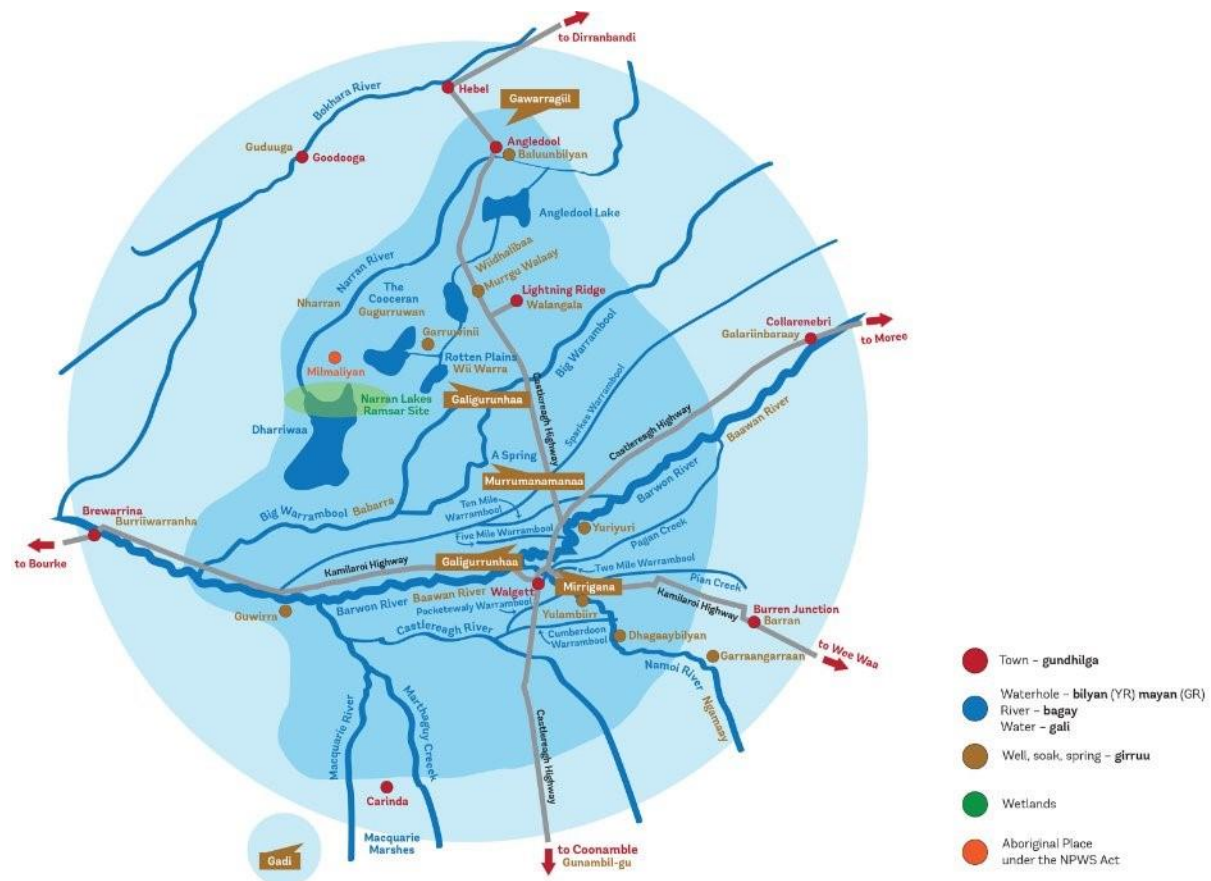
# Weekly River Monitoring Report

25th June 2024

# Introduction

This data was collected on Tuesday 25<sup>th</sup> June 2024 between 10am and 1pm on the Ngamaay (Namoi) and Baawan (Barwon) River.

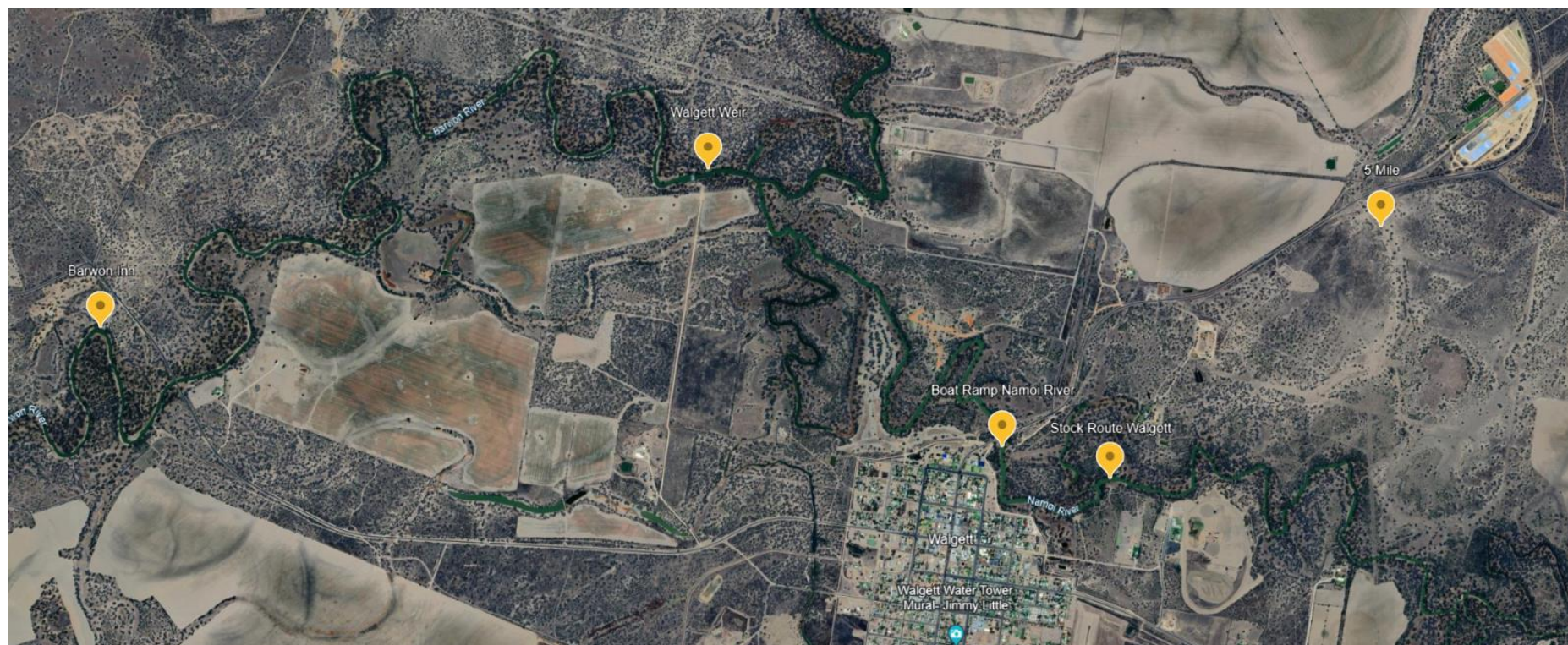
The Dharriwaa Elders Group River Rangers are conducting weekly water quality testing, measuring a range of factors that affect the quality of the river water. Different results affect the health of native animals and plants, and the health of the people that rely on the river for food and water.



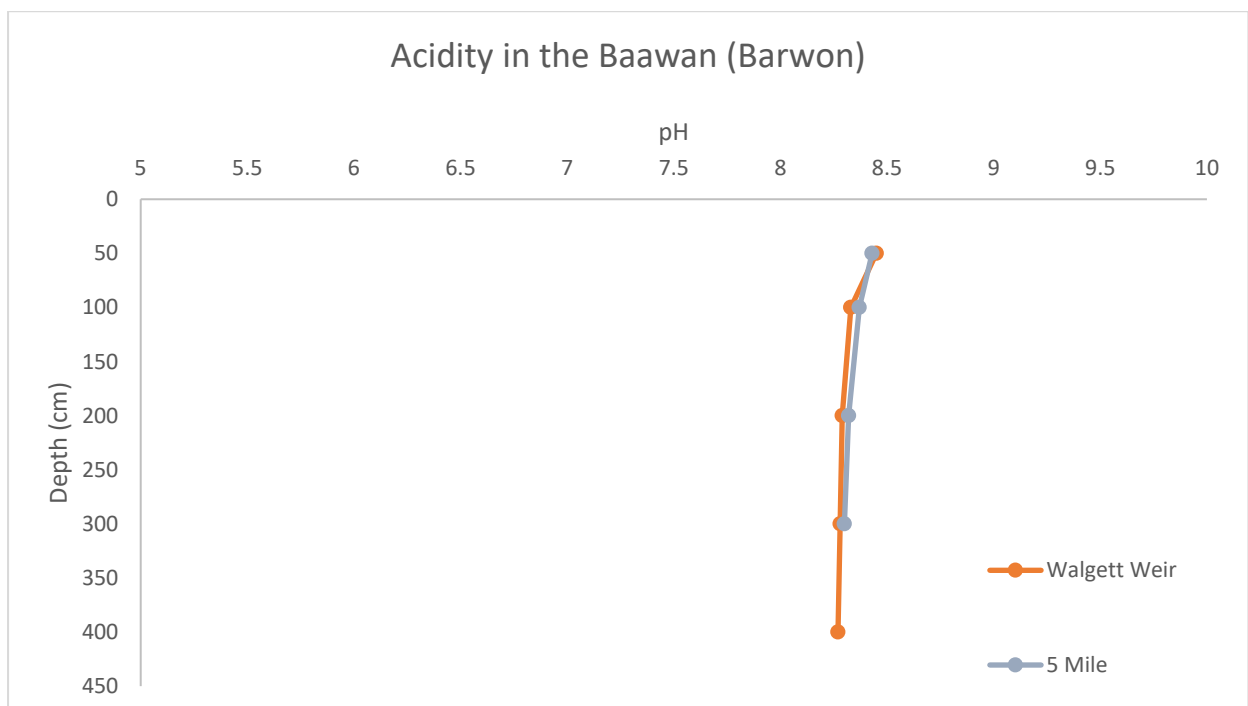
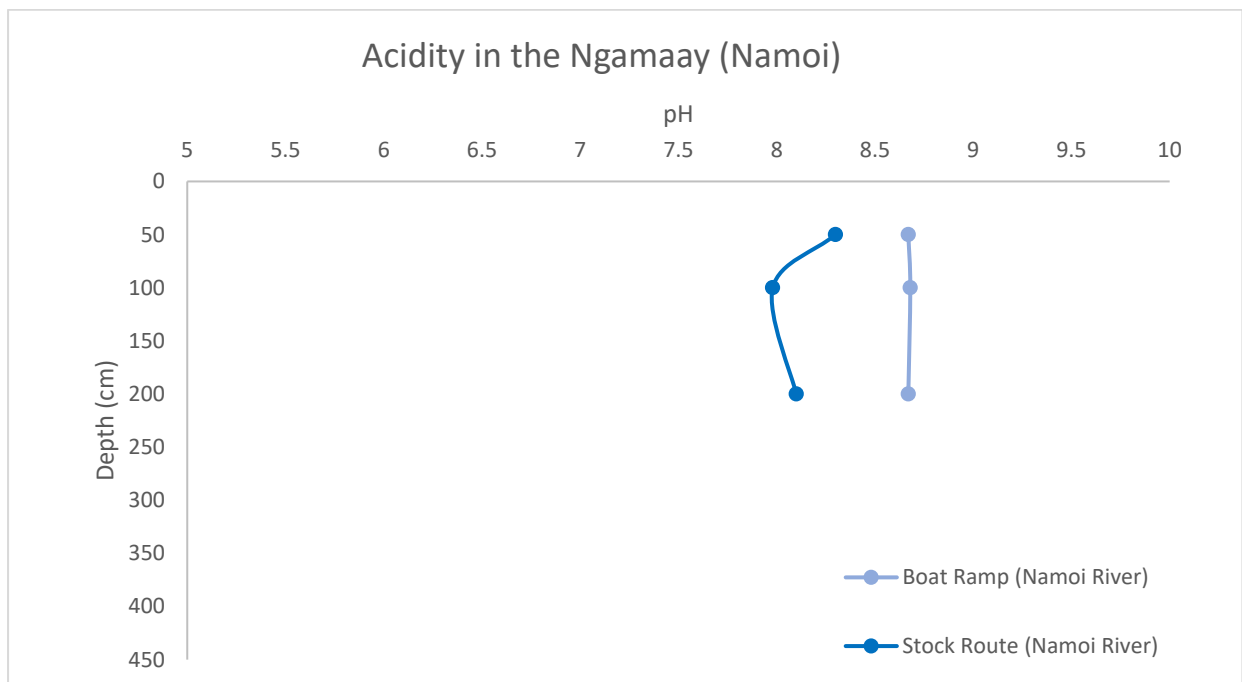
(Picture: Dharriwaa Elders Group area of interest)



Picture: Map of the Baawan (Barwon) River and Ngamaay (Namoi) River where the DEG River Rangers do their water quality monitoring.



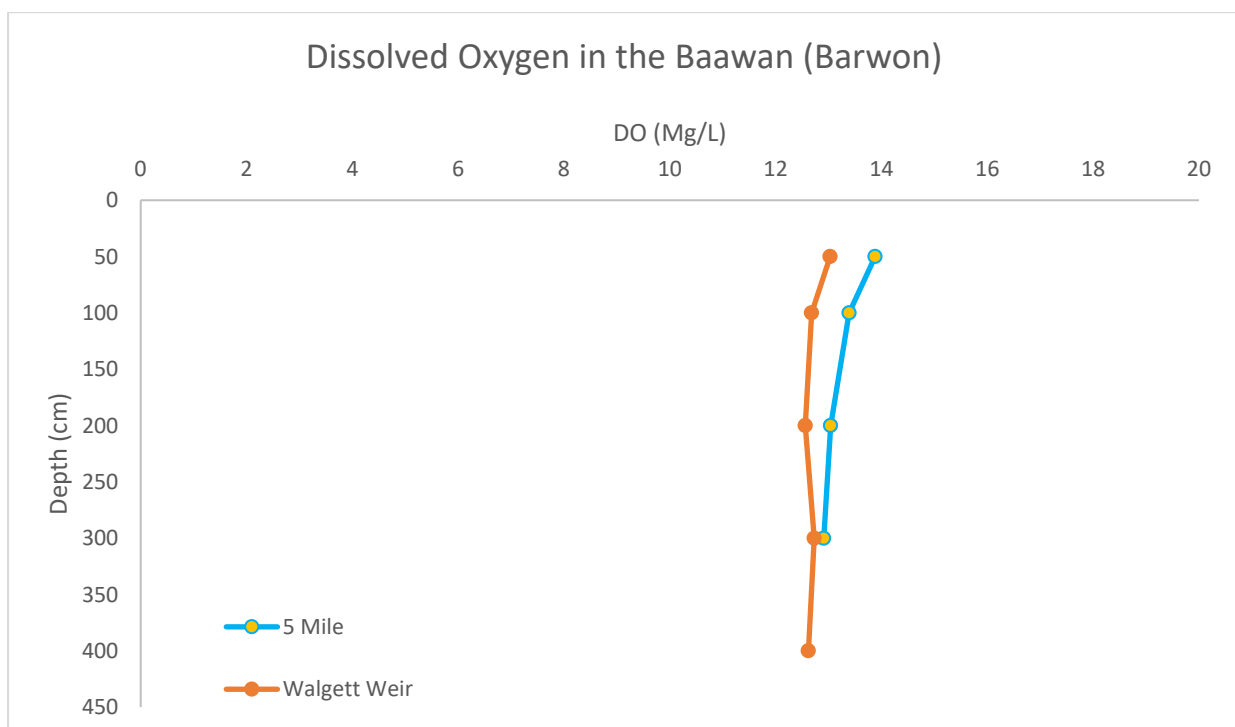
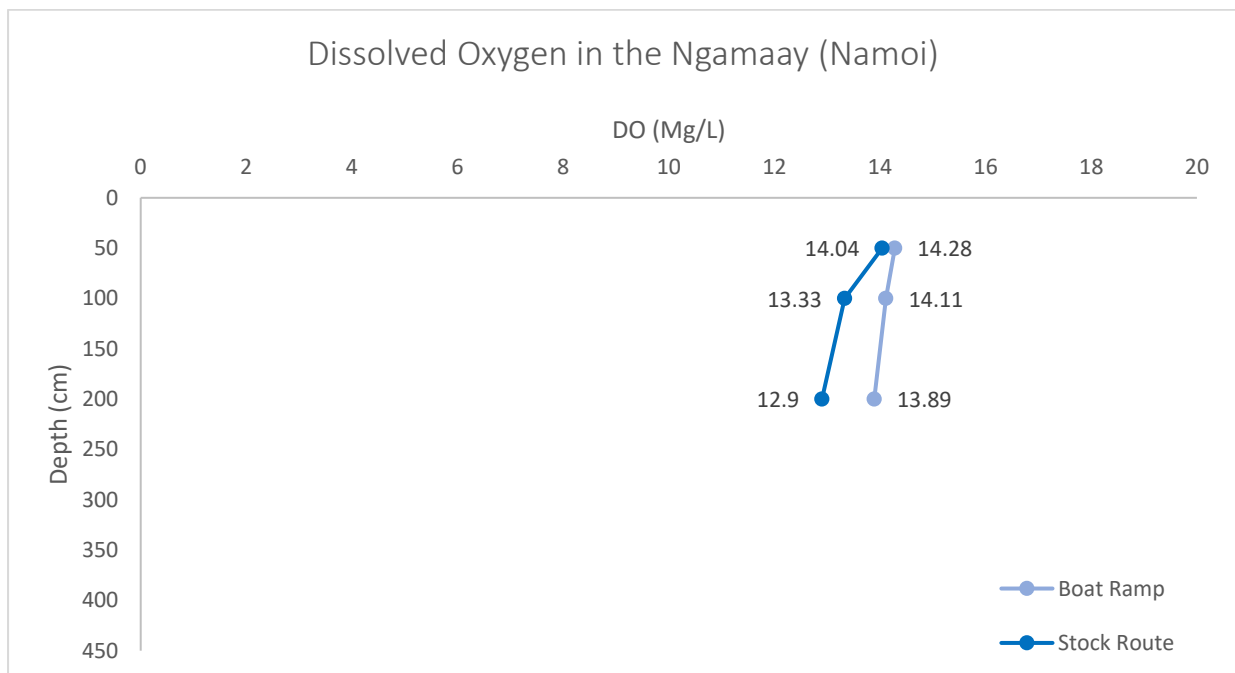
## Acidity in the Ngamaay and Baawan Rivers



The pH reading at the Stock Route in the Ngamaay River is within the healthy range. The pH reading at the Boat Ramp in the Ngamaay River is just outside the healthy range. The pH readings at both sites on the Baawan River are within a healthy range. The maximum reading is 8.68 and the minimum reading is 7.98.

**Healthy range: 6.5 - 8.5 pH**

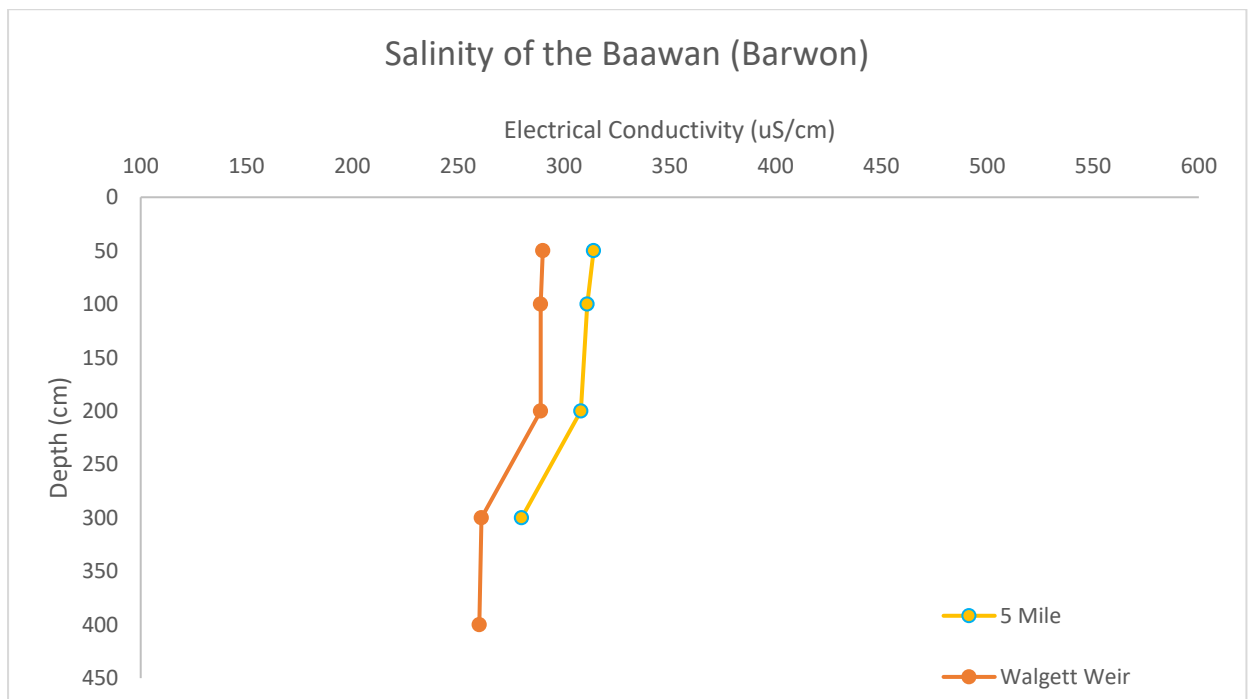
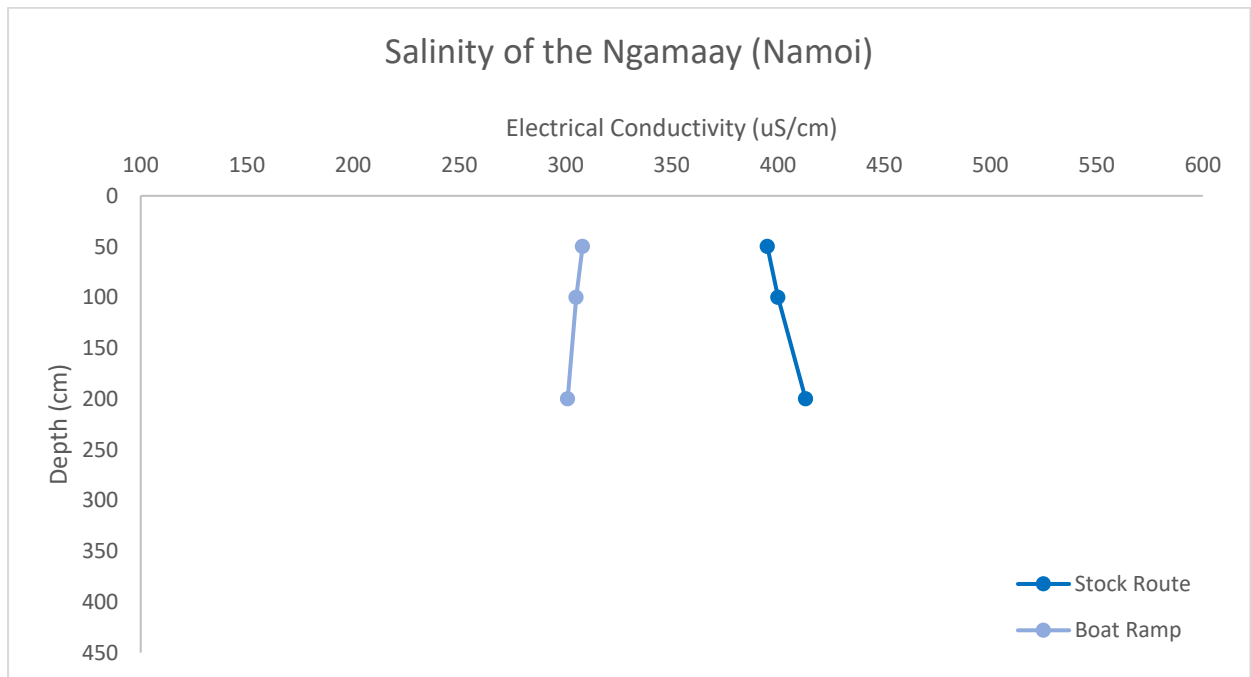
## Dissolved Oxygen in the Ngamaay and Baawan Rivers



The dissolved oxygen measured at all sites are outside the healthy range. The readings are high but there is no cause for alarm. The maximum reading is 14.28 and the minimum reading is 12.9.

**Healthy Range: 6 - 8 (Mg/L)**

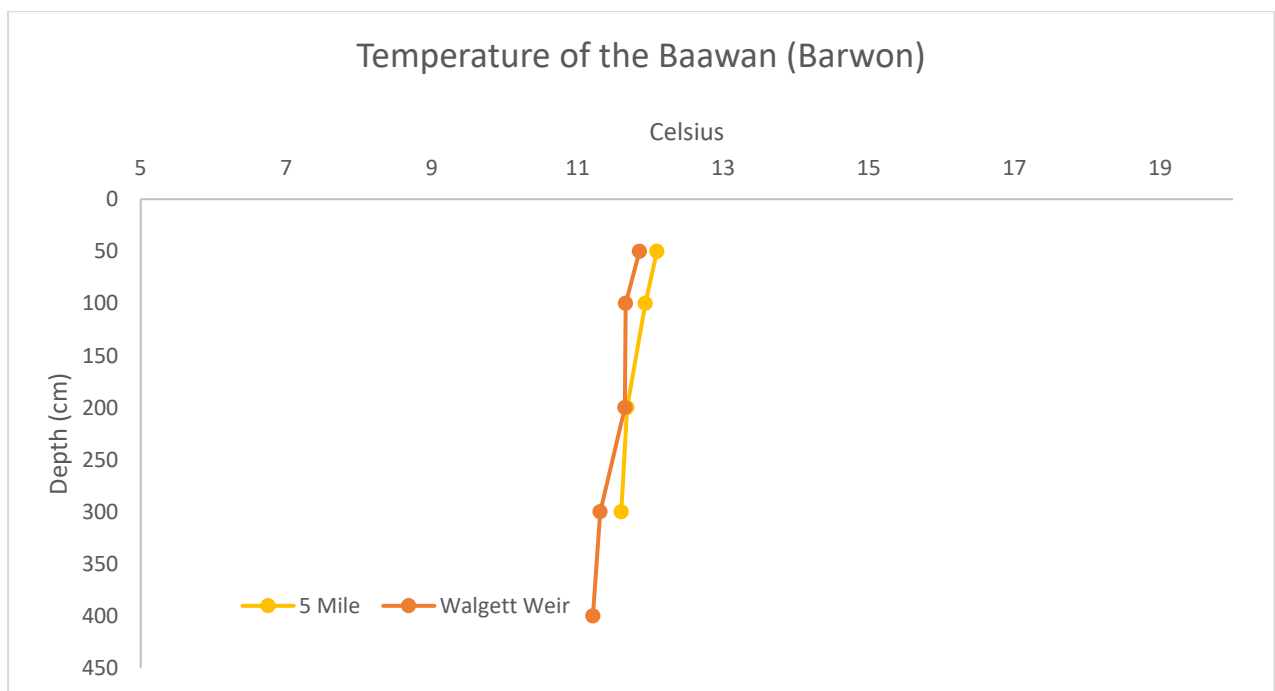
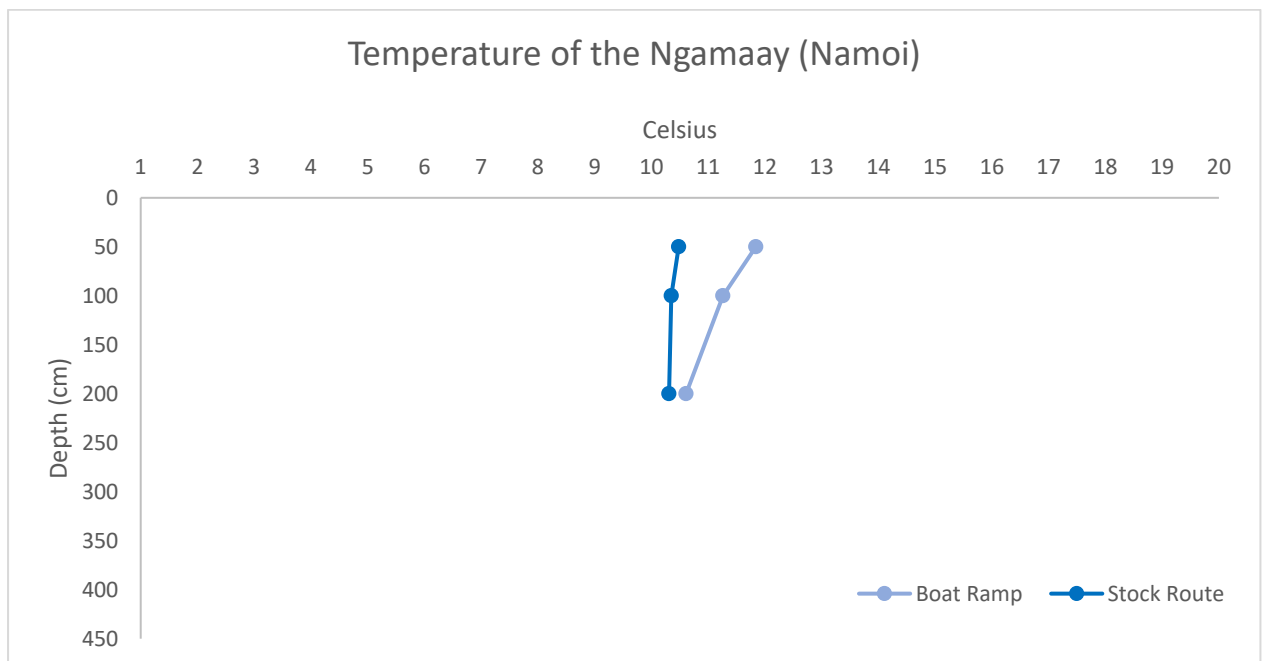
## Salinity in the Ngamaay and Baawan Rivers



The salinity measured at each site in the Ngamaay and Baawan Rivers are within a healthy range. The maximum reading is 413 and the minimum reading is 260.

**Healthy Range: 125 - 2,200 uS/cm**

## Temperature in the Ngamaay and Baawan Rivers



The temperature measured on both the Ngamaay and Baawan Rivers are outside the healthy range. The maximum reading is 12.09 and the minimum reading is 10.31.

**Healthy Range: 18-28 degrees (Celsius)**

## **Conclusion**

The pH readings at the Stock Route, Walgett Weir and 5 Mile are within a healthy range. The pH measured at the Boat Ramp on the Ngamaay River is outside the healthy range, more on the alkaline side.

The dissolved oxygen readings are high at all sites in the Ngamaay and Baawan Rivers. There is no cause for alarm. We will continue to monitor the dissolved oxygen closely.

The salinity measured at each site in the Ngamaay and Baawan Rivers are within a healthy range.

The temperature measured in the Ngamaay and Baawan Rivers is outside the healthy range. There is no extreme danger to the fish within the rivers. The water is cold but it is typical for this time of year.