



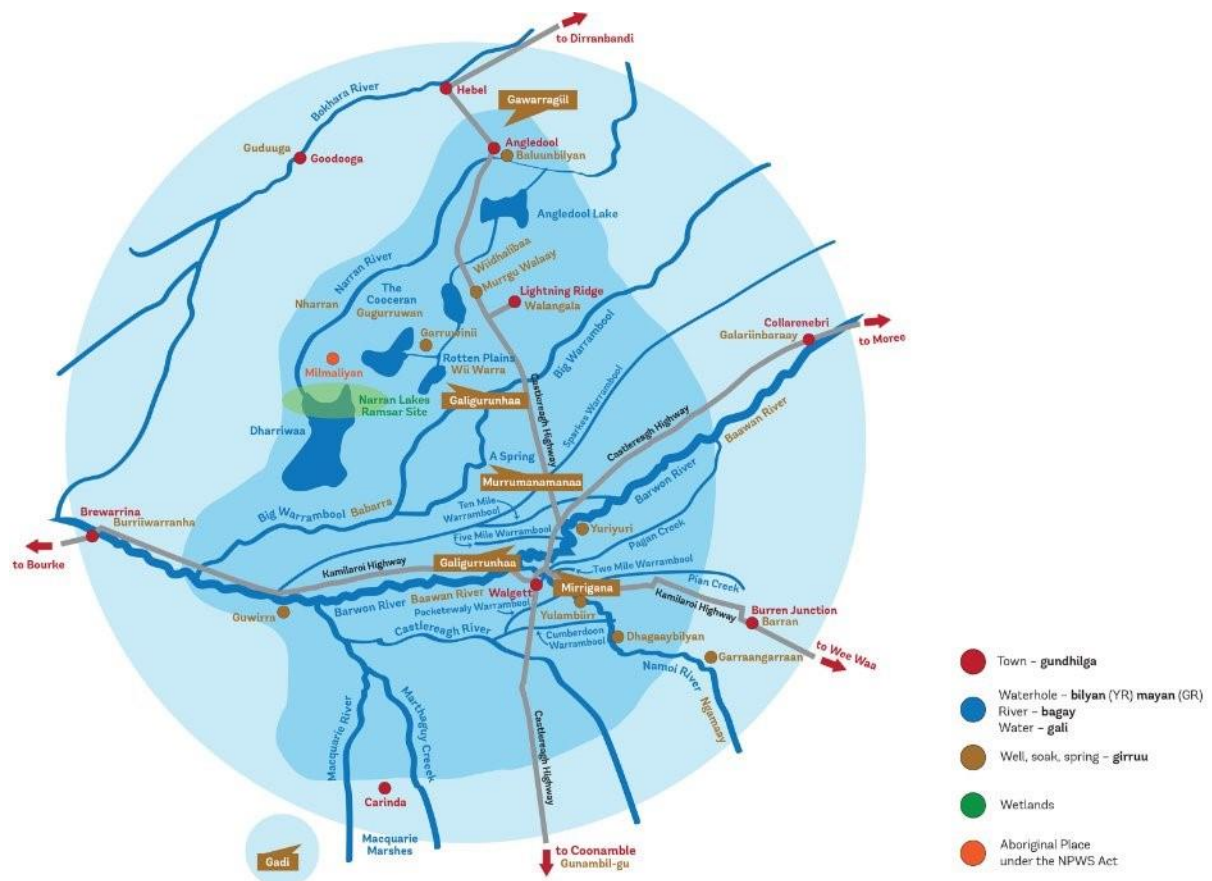
Weekly River Monitoring Report

21st May 2024

Introduction

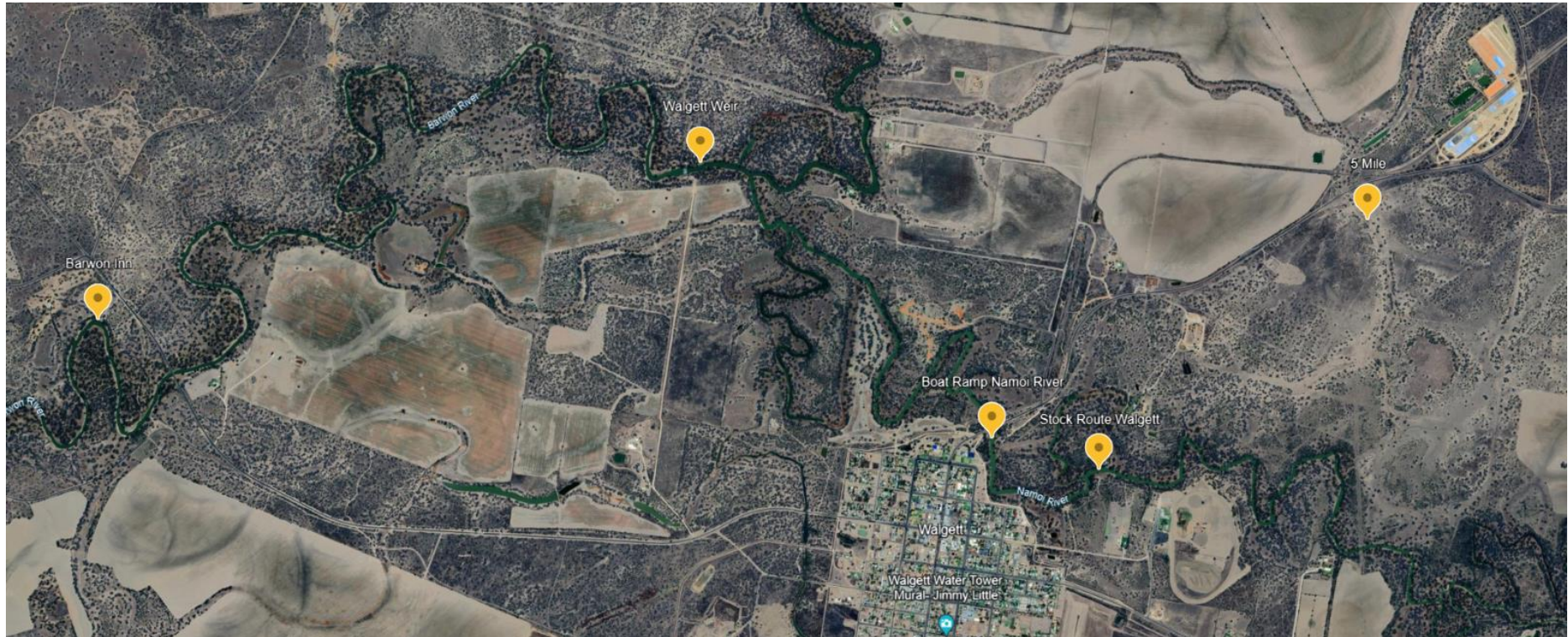
This data was collected on Tuesday 21st May 2024 between 10am and 1pm on the Ngamaay (Namoi) and Baawan (Barwon) River.

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.

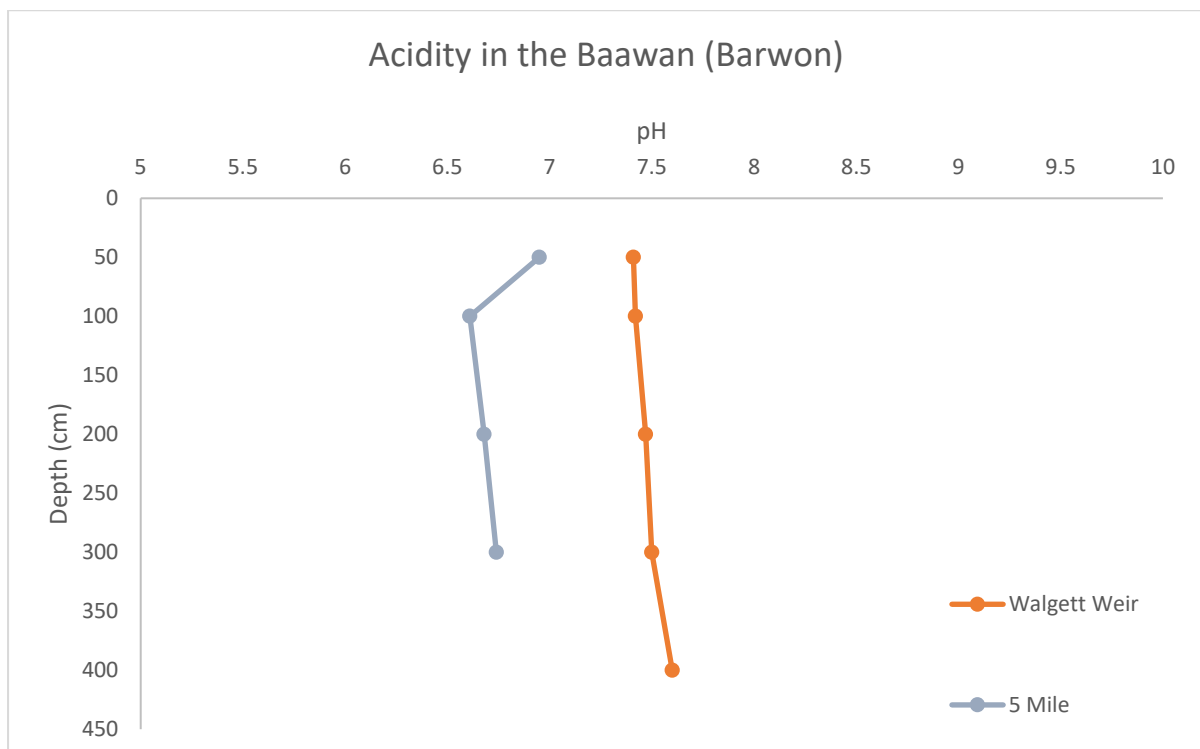
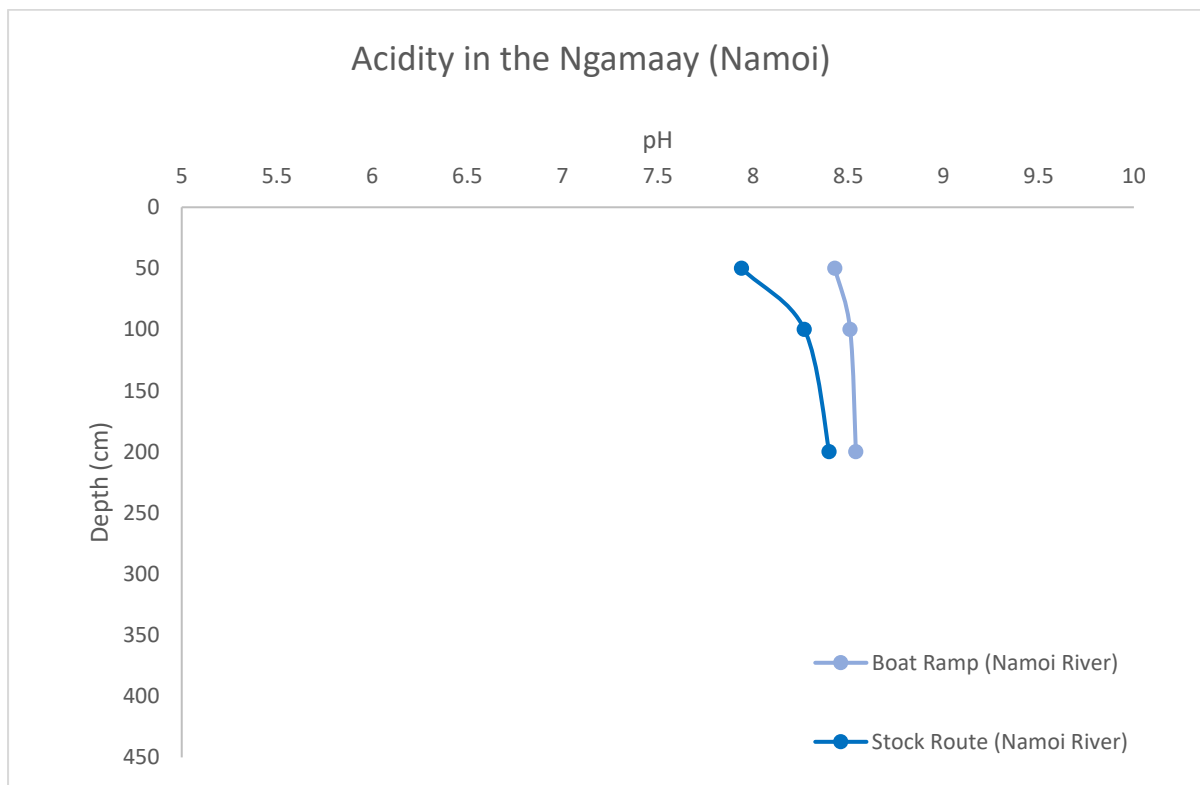


(Picture: Dharriwaa Elders Group area of interest)

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



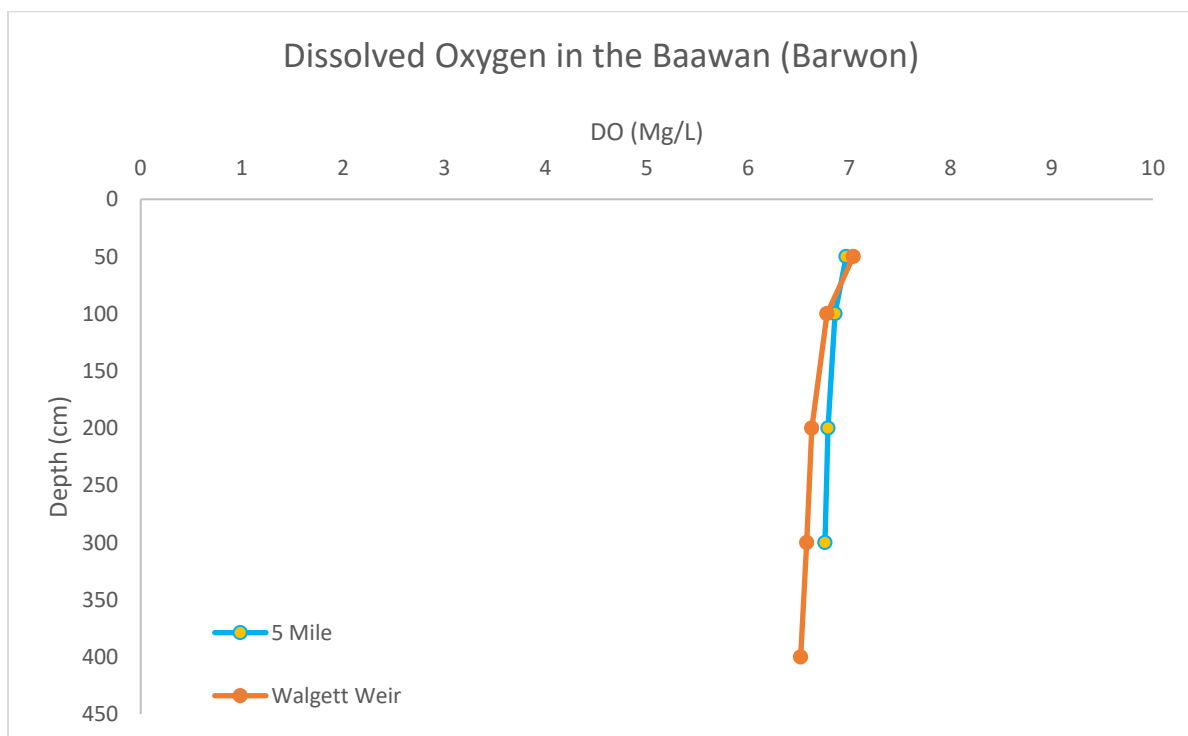
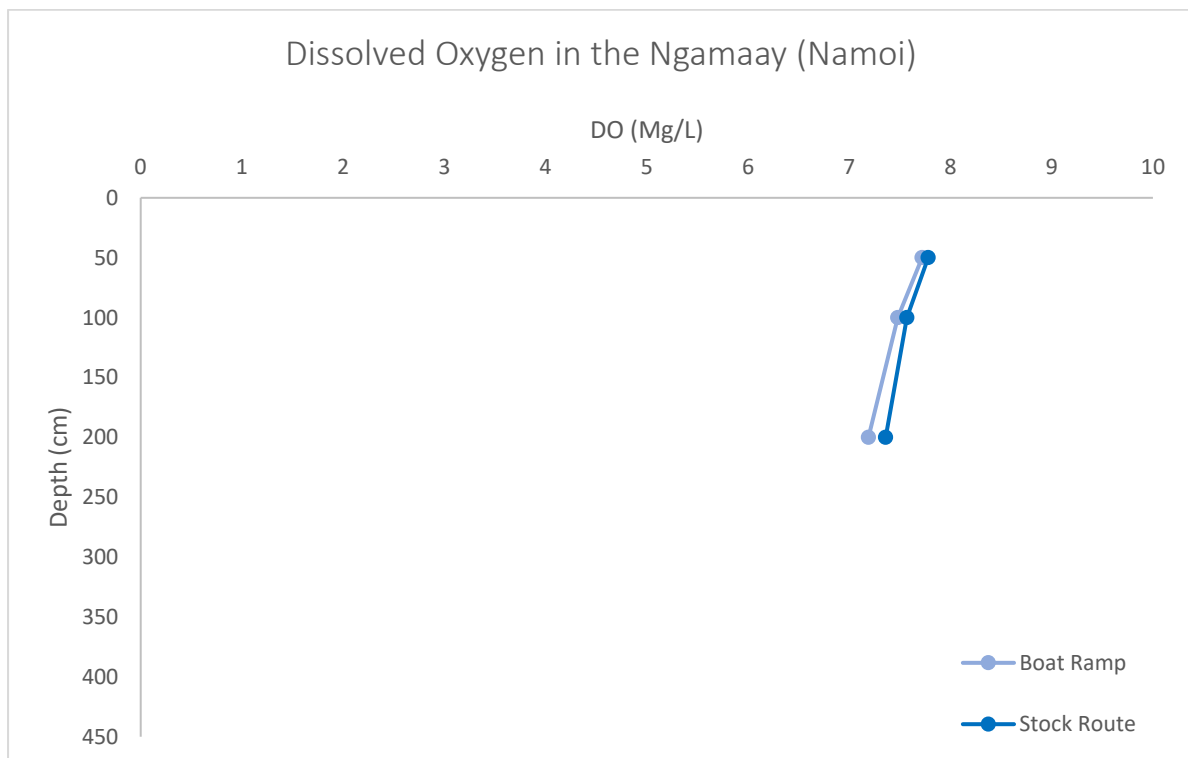
Acidity in the Ngamaay and Baawan Rivers



The pH readings in both the Ngamaay and Baawan Rivers are within a healthy range. The minimum reading is 6.61 and the maximum reading is 8.54.

Healthy Range: 6.5 – 8.5 pH

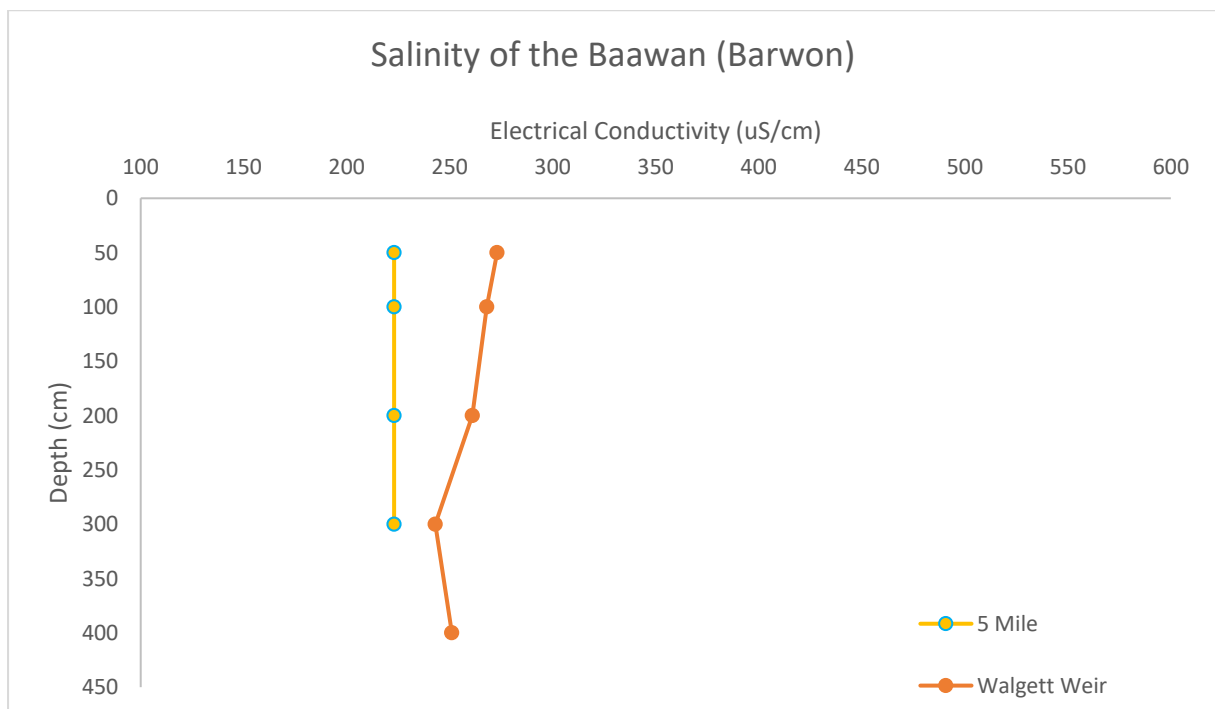
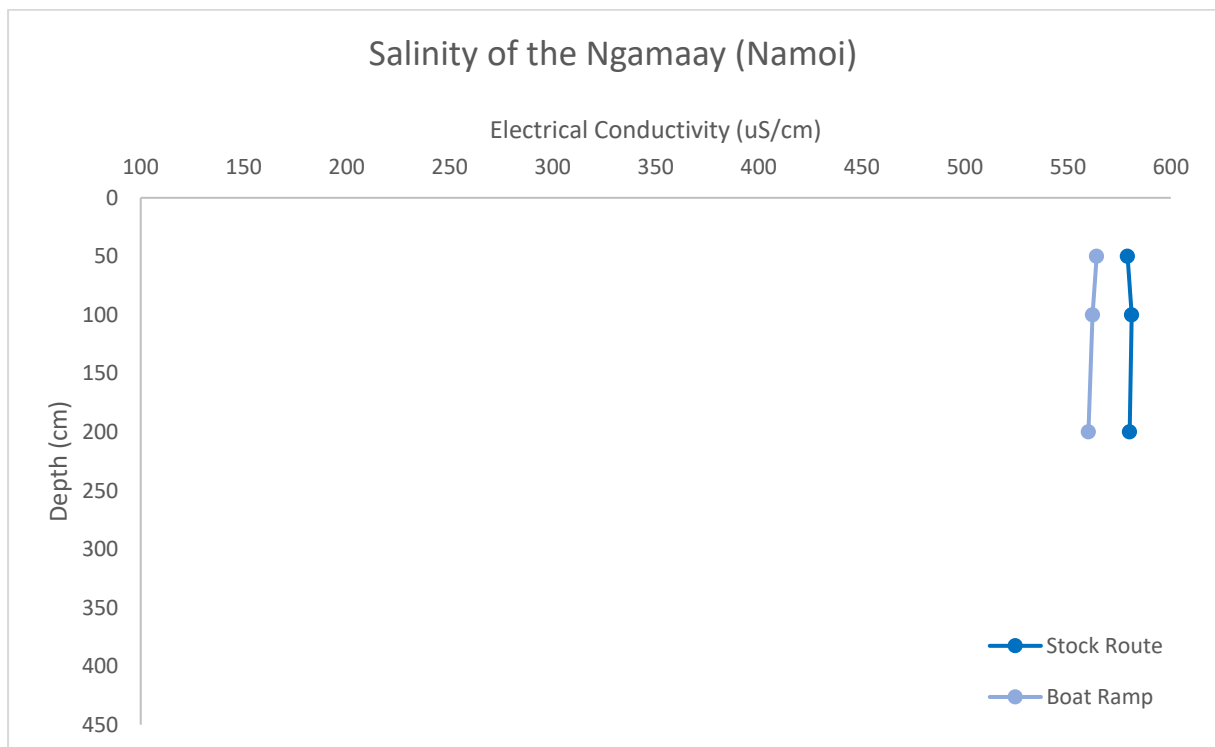
Dissolved Oxygen in the Ngamaay and Baawan Rivers



The dissolved oxygen measured at each depth on both the Ngamaay and Baawan Rivers are within a healthy range. This is great for the fish within the rivers. The minimum reading is 6.52 and the maximum reading is 7.78.

Healthy Range: 6 – 8 (mg/L)

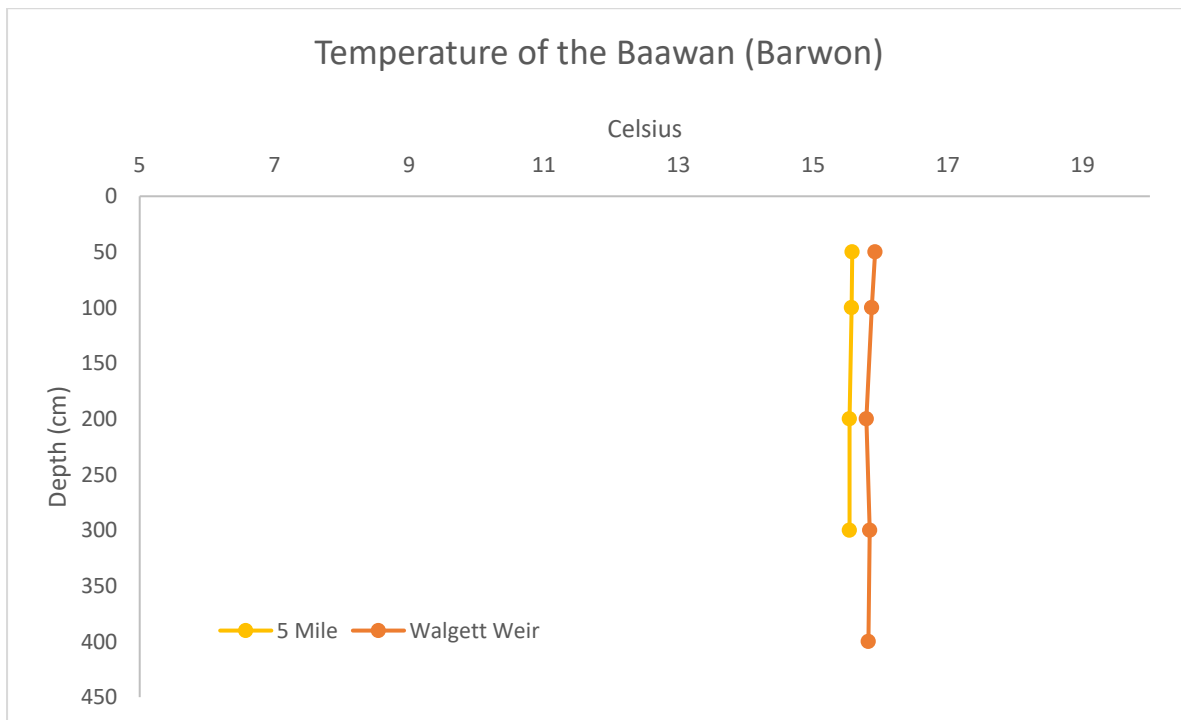
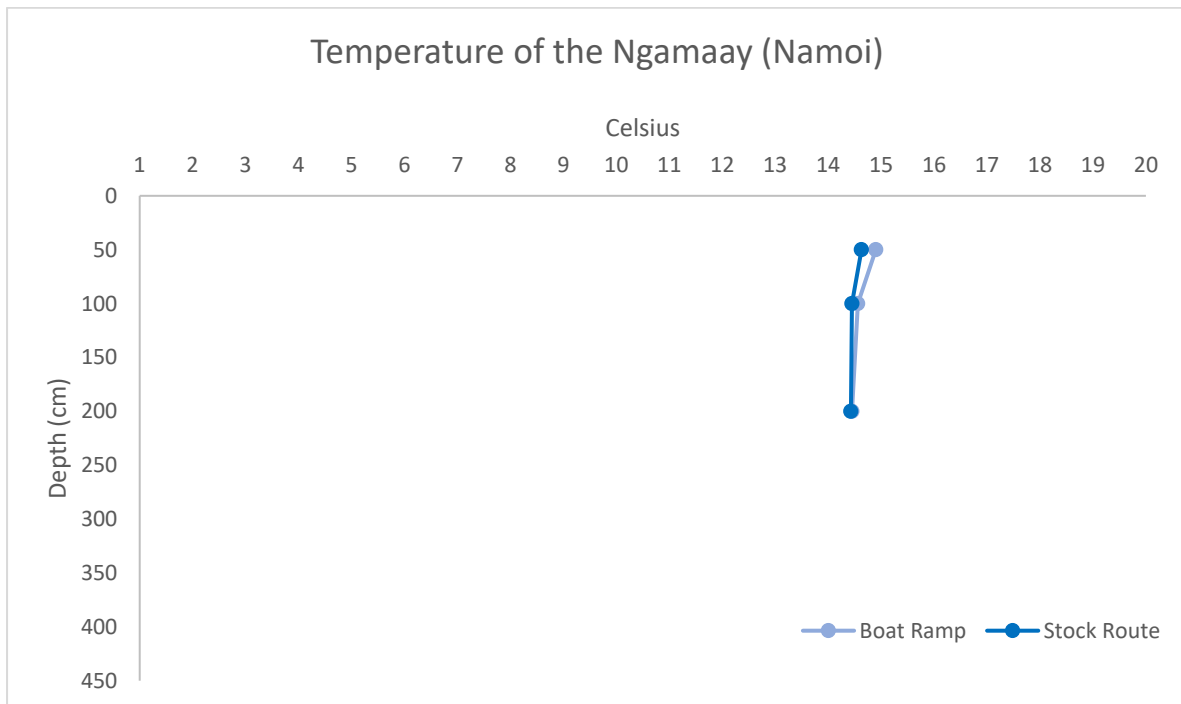
Salinity (Electrical Conductivity) in the Ngamaay and Baawan Rivers



The salinity of the Ngamaay and Baawan Rivers at each depth is within a healthy range. This is good for freshwater fish. The minimum reading is 223 and the maximum reading is 581.

Healthy Range: 125 – 2,200 uS/cm

Temperature in the Ngamaay and Baawan Rivers



The temperatures within the Ngamaay and Baawan Rivers are outside the healthy range. The minimum reading is 14.43 and the maximum reading is 15.92.

Healthy Range: 18 – 28 degrees (Celsius)

Conclusion

The pH, dissolved oxygen, Salinity (Electrical Conductivity) in the Ngamaay and Baawan Rivers are within the healthy range.

The temperature in the Ngamaay and Baawan Rivers are outside the healthy range. Cold water could be harmful to native fish.