



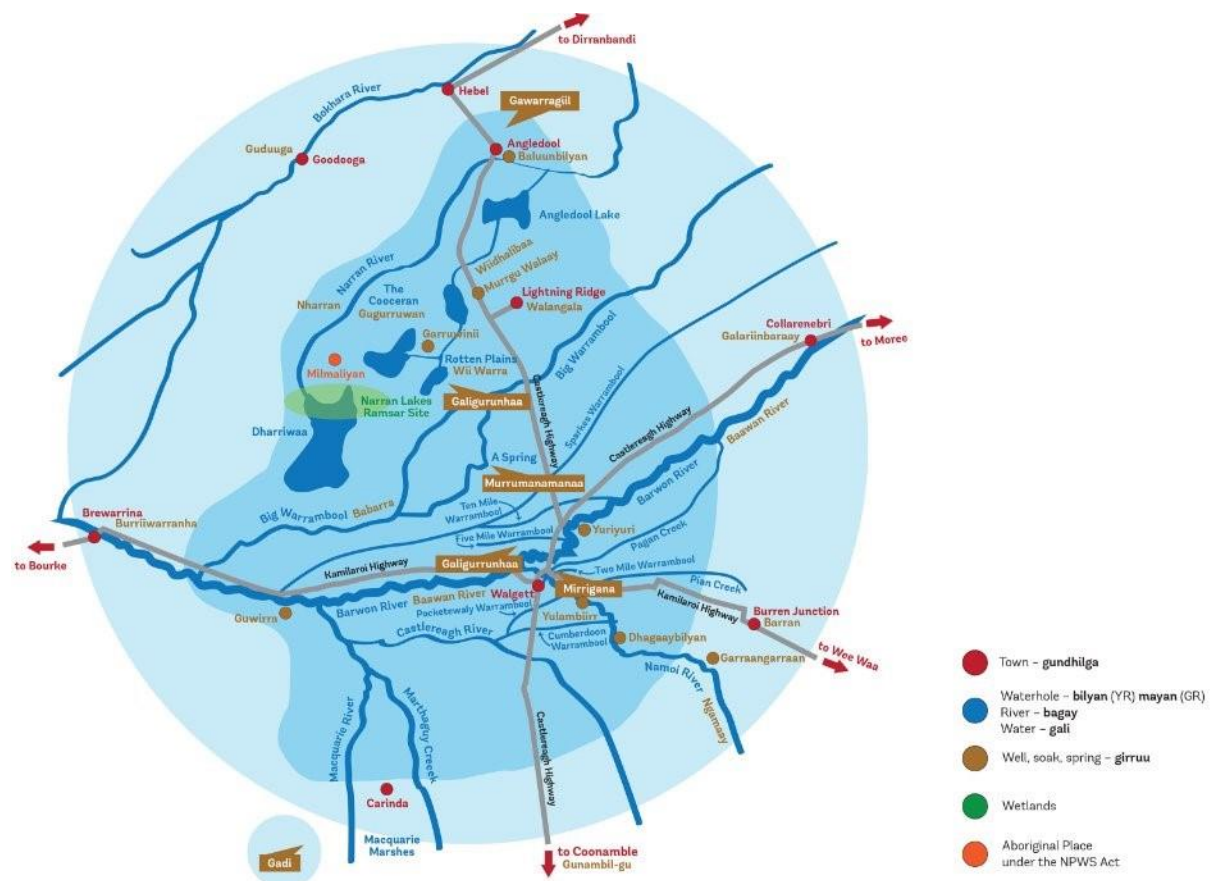
Weekly Water Monitoring Report

7th August 2024

Introduction

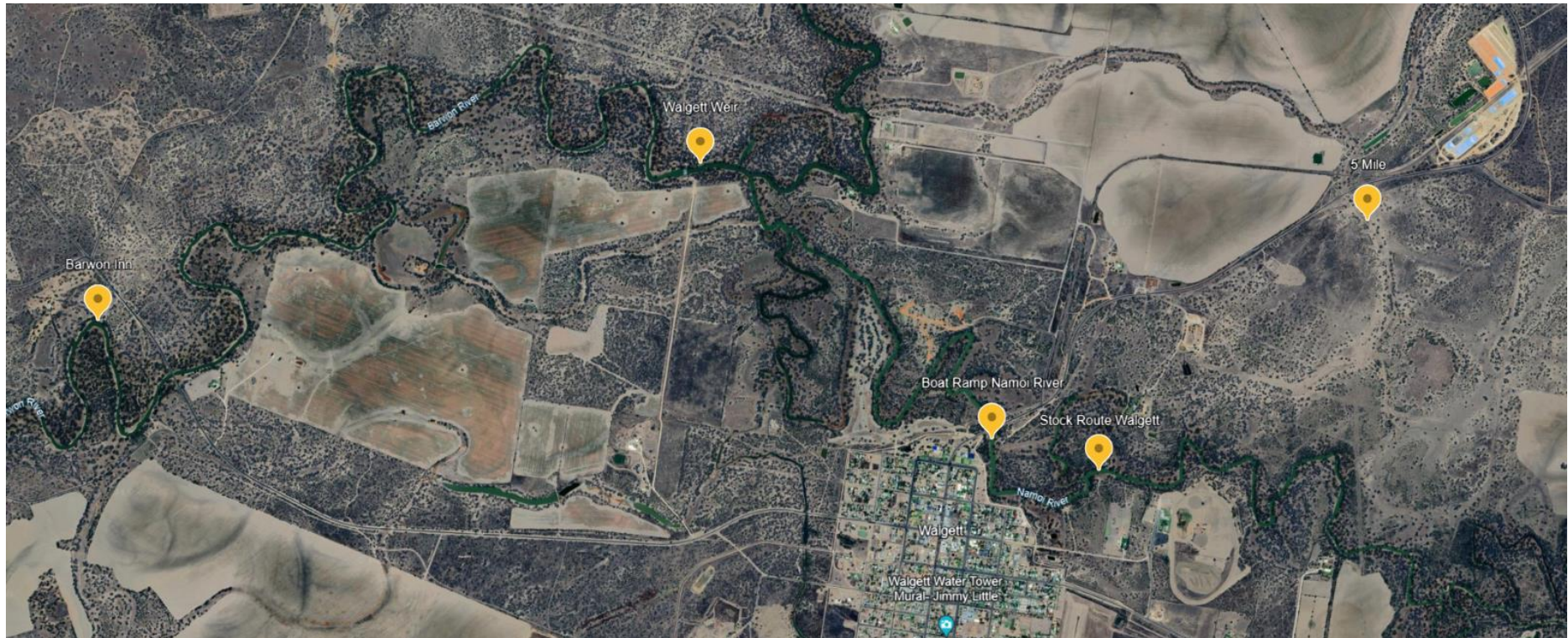
This data was collected on Wednesday 7th August between 10am and 1pm on the Ngamaay (Namoi) and Baawan (Barwon) River.

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.

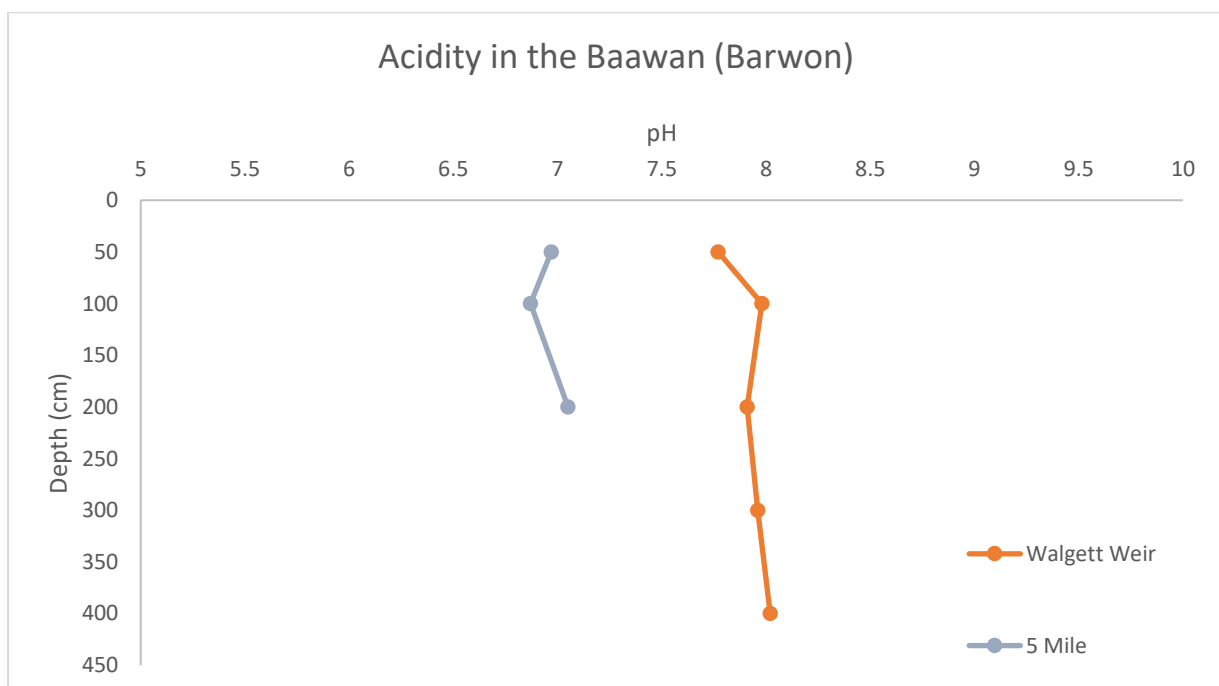
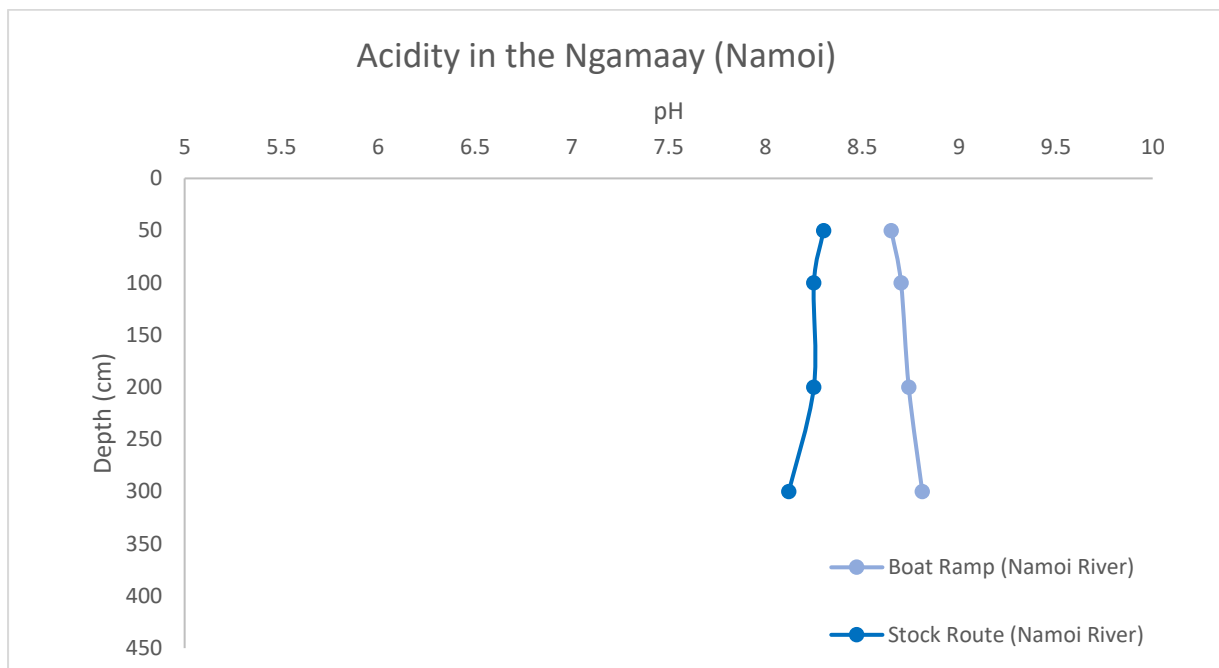


(Picture: Dharriwaa Elders Group area of interest)

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



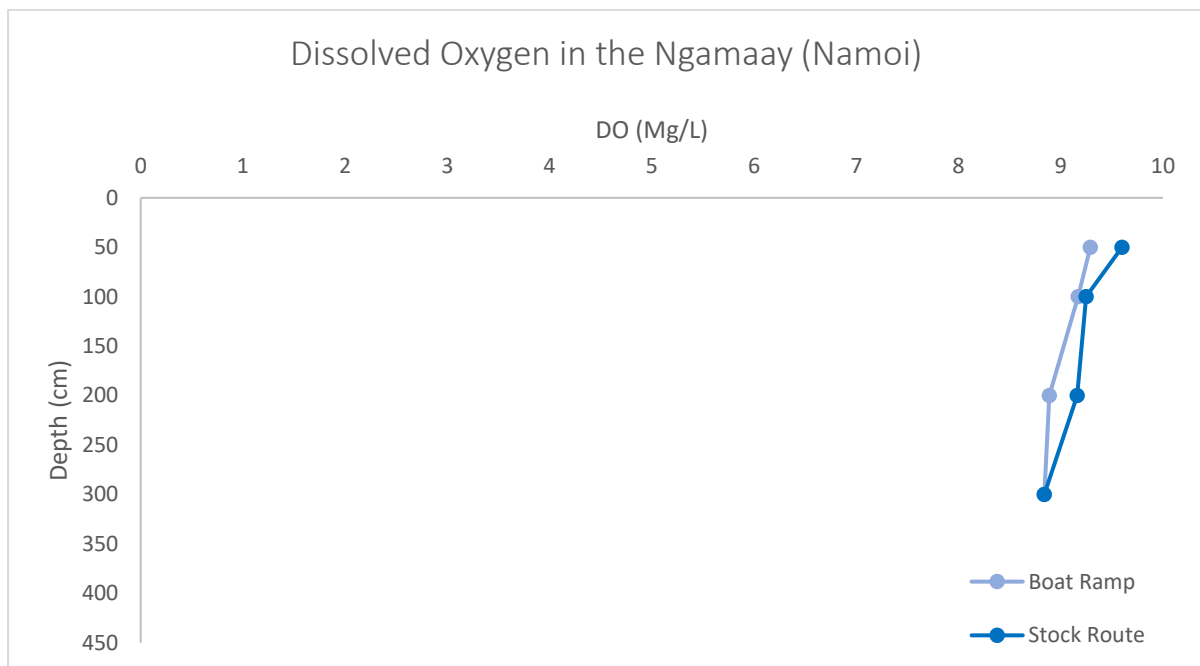
Acidity in the Ngamaay and Baawan Rivers



The pH levels measured at the 5 Mile, Walgett Weir (Baawan River) and the Stock Route (Ngamaay River) are within the healthy range. All pH readings measured at the Boat Ramp (Ngamaay River) are outside the healthy range. The minimum reading is 6.87 and the maximum reading is 8.81.

Healthy range: 6.5 - 8.5 pH

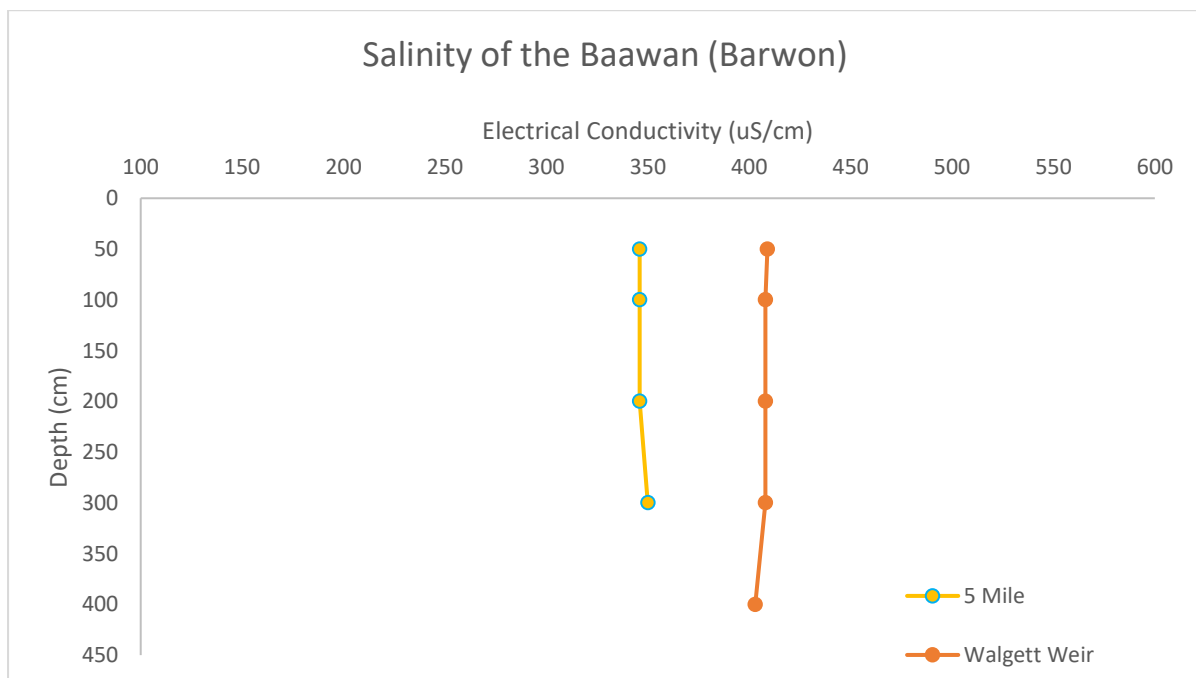
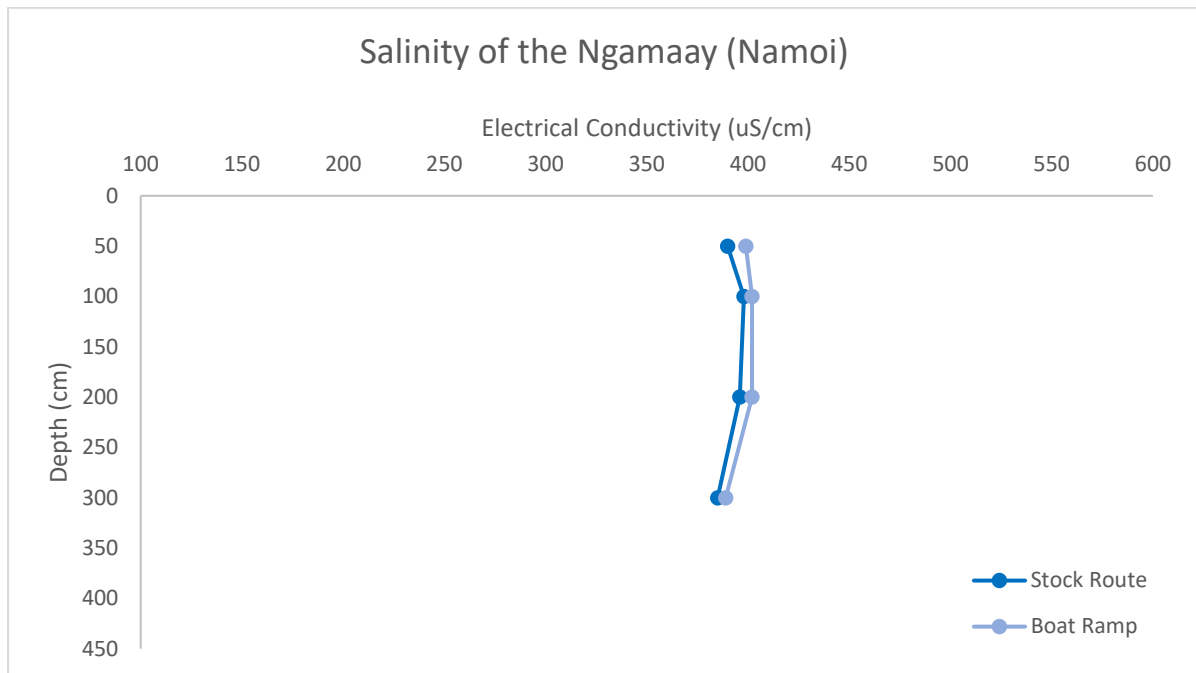
Dissolved Oxygen in the Ngamaay and Baawan Rivers



The dissolved oxygen measured at all sites on the Baawan and Ngamaay River are outside the healthy range. The minimum reading is 8.84 and the maximum reading is 9.70.

Healthy Range: 6 - 8 (Mg/L)

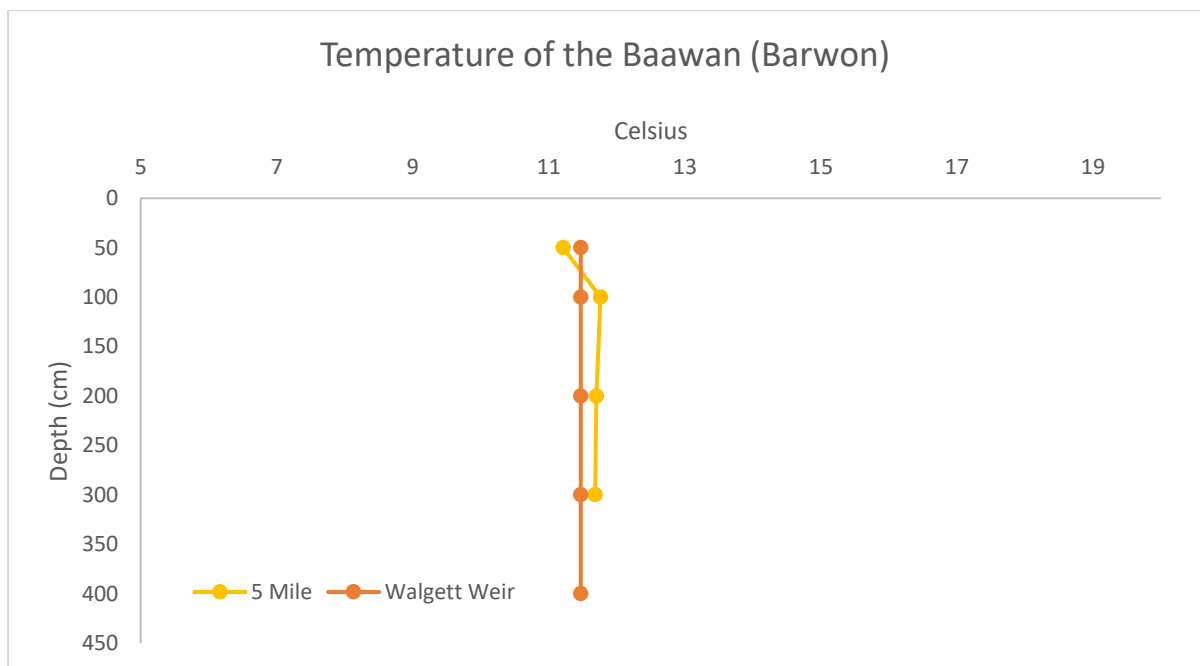
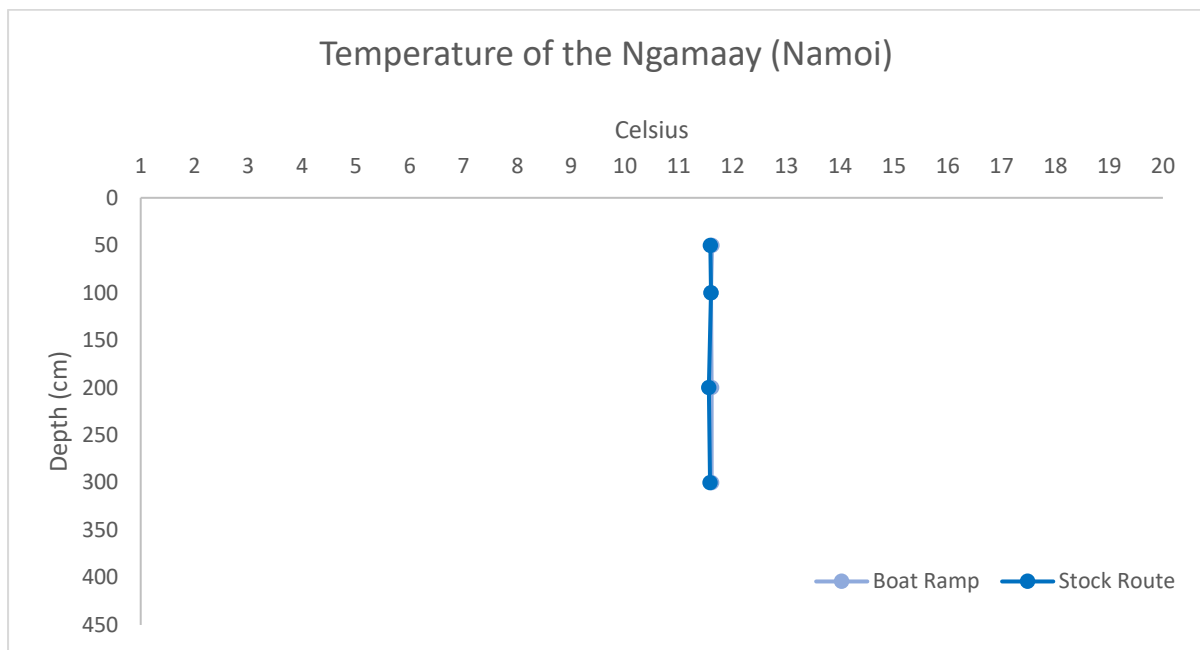
Salinity in the Ngamaay and Baawan Rivers



The salinity measured at all sites on the Ngamaay and Baawan Rivers are within a healthy range. The minimum reading is 346 and the maximum reading is 409.

Healthy Range: 125 - 2,200 uS/cm

Temperature in the Ngamaay and Baawan Rivers



The temperature measured at each site is outside the healthy range. The minimum reading is 11.21 and the maximum reading is 11.76.

Healthy Range: 18-28 degrees (Celsius)

Conclusion

The pH at majority of the sites are within a healthy range. The Boat Ramp (Ngamaay River) is outside the healthy range more on the alkaline side.

The dissolved oxygen is outside of the healthy range. Since we are in our cooler months of the year we will see higher dissolved oxygen levels. There is no danger to the fish in the rivers. The readings this week have decreased compared to the readings we have been getting in the last few months.

The salinity at all sites in the Ngamaay and Baawan River are within a healthy range. This is good for freshwater fish.

The temperature at all sites are below the healthy range. There is no extreme danger to the fish within the rivers. The water is cold but is typical for this time of year.