

HOW TO TAKE A

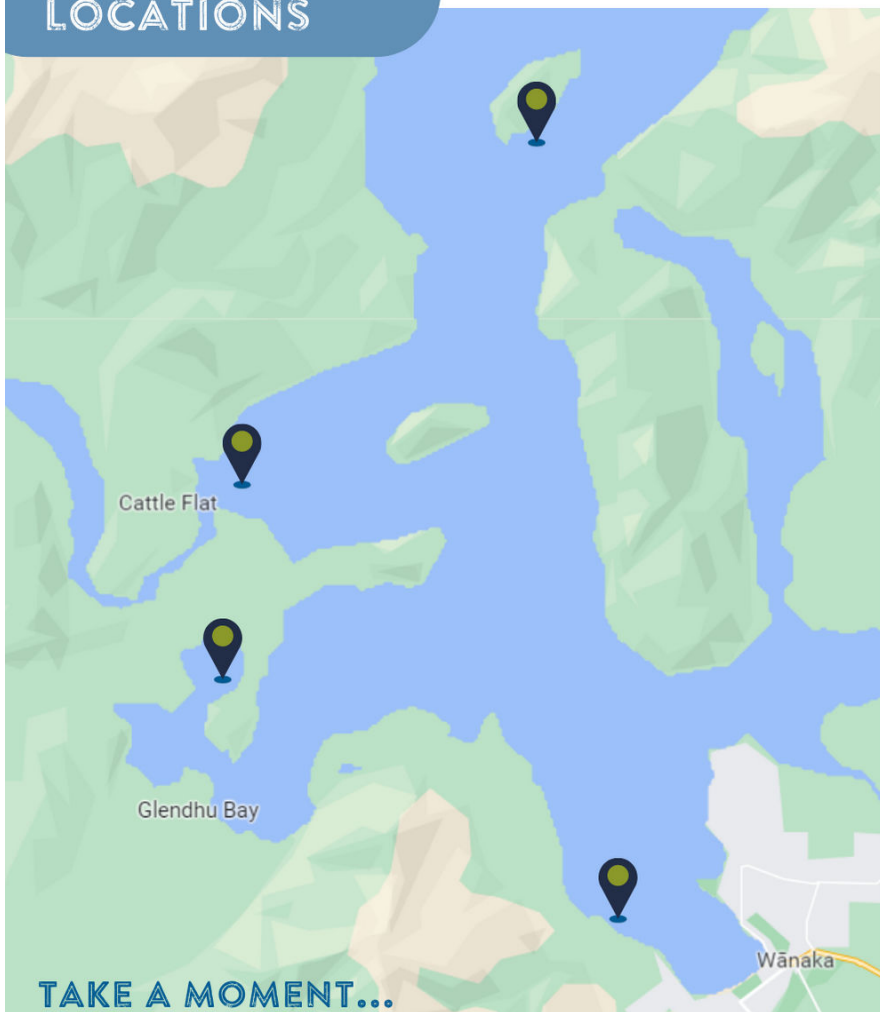
SECCHI DISK MEASUREMENT

Download the *EyeOnWater - Colour* app
& the *Zebra Tech* app



1. Find your weather window - it is important to pick a day with lots of sunshine and minimal wind to take your reading.
2. Pick your time frame - the best time of day to use your secchi disk is when the sun is high in the sky.
3. Head to one of the measuring spots - see map on overleaf
4. Adjust your eyes - once you have found your location, give your eyes time to adjust to looking into the water. When taking secchi measurements it is important not to wear sunglasses. *It can help to take the measurement off the shady side of the boat, this way minimising sun glare.*
5. Log the colour - open the EyeOnWater app and follow the prompts to choose the colour, then rain and cloud cover, click on additional parameters.
6. Activate the temperature sensor - put the secchi and sensor into the water. Open your bluetooth and connect to the temperature sensor named "ZT-MOANA" followed by a number (the number is on the physical device). The temperature sensor must be in the water before bluetooth is activated.
7. Finally it's time to get your measurements! Counting the knots as you go, slowly lower the secchi disk into the water. As soon as the disc disappears from sight stop and record that depth (Y1).
8. Slowly raise the disk back to the surface, once the disk comes back into view, stop and take a second reading of the depth (Y2).
9. Calculation time! From here, simply take your two readings and calculate the secchi depth using this formula: $\text{Secchi depth} = \frac{y1+y2}{2}$
Log this on the app under *additional parameters*
10. Log the temperature - open the Zebra Tech app go to 'All Files', open up the file and find the first temperature logged. Record that on the EyeOnWater - Colour app in the final box.
Bonus points - email the Zebra Tech temperature document to secchi@waiwanaka.nz
11. Hit send and your measurements will be uploaded to the app!

SUGGESTED MEASUREMENT LOCATIONS



TAKE A MOMENT...

TO BE A CITIZEN SCIENTIST AND COLLECT MEANINGFUL DATA

- Between Waterfall Creek and Ruby Island
- In Paddock Bay
- At the mouth of the Mātukituki River
- Off the wharf at Mou Waho Island
- At the mouth of the Matukituki
- Or choose your own spot where you think you might see some impacts from stormwater runoff when there is a lot of rain, where does lots of water enter the lake when it's raining?