

## What is Salinity?

Salinity is a measure of how much salt is dissolved in water. In the Hudson, salinity is usually very low above Newburgh. It increases closer to New York City and the Atlantic Ocean. Salinity can change quickly at any location depending on tides and rainfall.

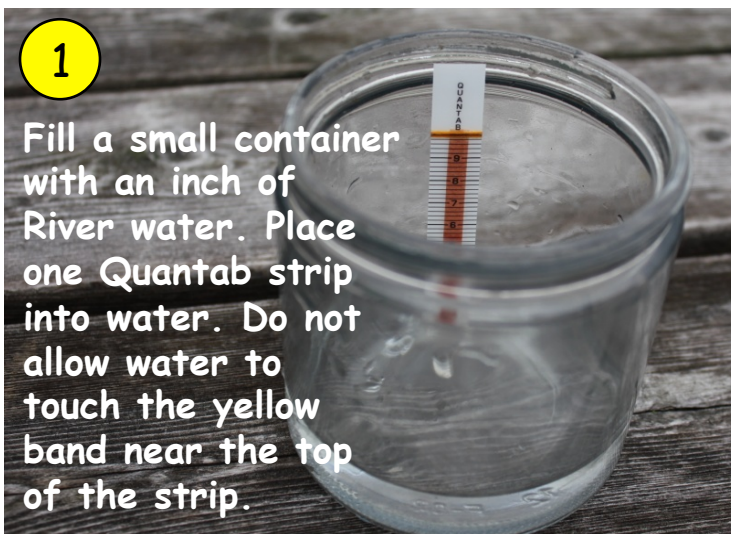
### Why we measure salinity...

Salinity determines where different types of animals and plants can be found in the estuary.

**Note:** Some tests give salinity in parts per thousand (ppt), others in mg/L of chloride [Cl<sup>-</sup>]. Be sure to record units!

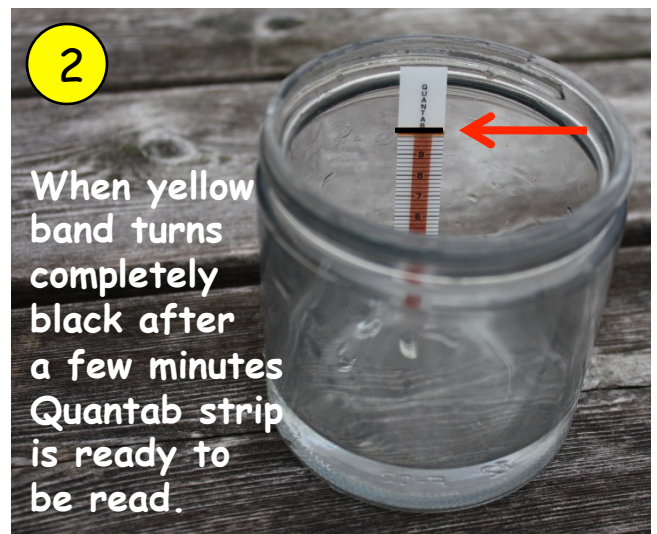
Which method can I use?

## How to use a Quantabs...



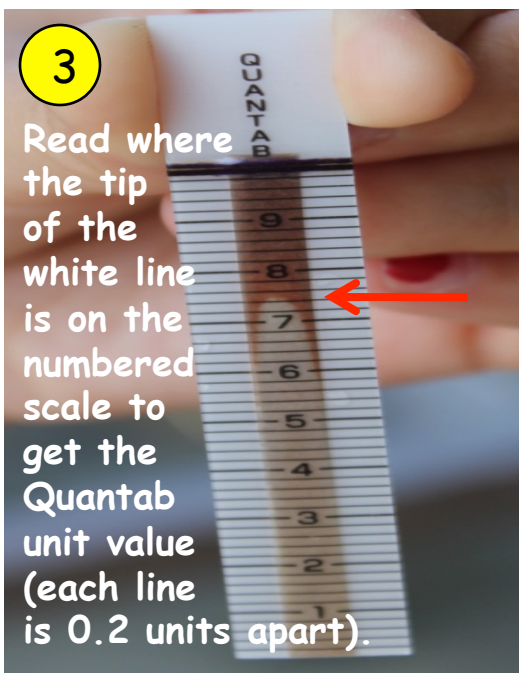
1

Fill a small container with an inch of River water. Place one Quantab strip into water. Do not allow water to touch the yellow band near the top of the strip.



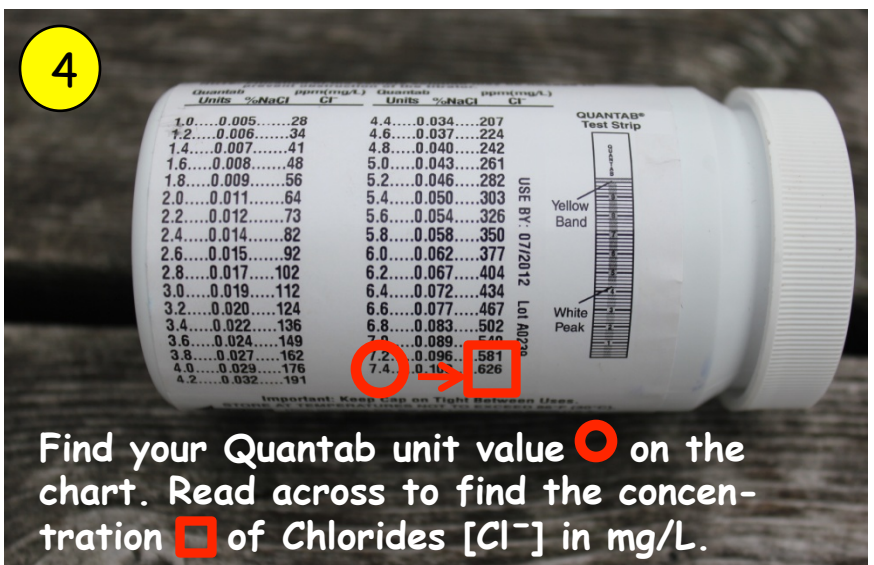
2

When yellow band turns completely black after a few minutes Quantab strip is ready to be read.



3

Read where the tip of the white line is on the numbered scale to get the Quantab unit value (each line is 0.2 units apart).



4

Find your Quantab unit value 5.81 on the chart. Read across to find the concentration 581 of Chlorides [Cl<sup>-</sup>] in mg/L.

**Note:** Each bottle of Quantabs has a different chart. Use the chart that comes with your Quantabs.