

## What to sample?

River water (or water from creeks).

## Where to sample?

→ **Near the river mouth but just above the tidal limit.** Above the tidal limit is important because seawater with high alkalinity (which could potentially mix with fresh river water near the river mouth) must not bias the value. I will check the salinity of the sample to verify the absence of seawater.

→ Try to take the sample from a **faster flowing part of the river**, not from a pond at the side where water stands still.

## How to sample?

→ Carefully **flush the sampling syringe** with river water before taking the final sample. Make sure you hold the syringe upstream of yourself so that you cannot contaminate the sample.

→ Fill the syringe with the final sample and attach the syringe filter (0.22 µm Nylon). Avoid larger air bubbles in the syringe as they impede the filtration.

→ Open the plastic sampling beaker. It should be **clean and dry inside** (ideally opened for the first time).

→ Push approximately 10 mL of sample through the filter into the plastic sampling beaker. **Rinse the beaker** with this filtered water by closing and shaking the beaker. Discard the 10 mL sample by emptying the beaker (residual droplets are no problem).

→ Push the sample through the filter into the sampling beaker. **Try to get at least 60 mL** (beaker full to the top). This may require a second fill of the syringe. For a refill first remove the filter, then pull out the plunger and refill the syringe with new river water. Then attach the filter again and continue with the filtration. Attention: the filtration becomes harder the more sample you filter because of clogging. It can be quite hard in rivers with many particles. Use one filter for one sample.

→ **Close the lid firmly** so that no volume can leak out but do not destroy the beaker.

## How to label the sample

→ Label with the provided **water-resistant pen**.

→ Note the **date** of sampling on the beaker (Day/Month/Year).

→ Note the **river** the sample was taken from (in case of an unknown creek write "N/A").

→ Write down the **precise coordinates**. Either use a mobile GPS device or use Google Earth/ google Maps.

## How to store and further process

→ Store the sample in the **dark, in a fridge** (approx. 4°C).

→ Do not freeze the sample. The **sample must never freeze**.

→ **Storage time** until analysis **should be minimal** to avoid sample decay. It should be returned to me as quickly as possible (best within less than 2 weeks).

## How to return the sample

→ Sample can be dropped off at the Institute for Marine and Antarctic Studies (IMAS) Salamanca, Hobart.

→ Samples can be sent via post to: IMAS Battery Point, Lennart Bach, 20 Castray Esplanade, BATTERY POINT TAS 7004, Australia.

→ Other arrangements can be made via email (Lennart.bach@utas.edu.au).