



WILDERLAB

Discovery through DNA

Drill Pump Sampling Instructions

Materials Needed:

- Wilderlab kits + drill pump adapter kits
- Chonry drill pump
- Graduated 1L measuring jug
- Optional brass clamp

Notes:

- Syringe in kit bag can be discarded or used for different project.
- Pump tubing is NOT reusable. One pump adapter kit should be used per single rep or 6-rep kit.



DO NOT submerge pump in water. If pumping in rough waters, sterilise a bucket with 10% bleach solution and sample from bucket.

Gently wipe pump with freshwater after sampling in marine environments and use WD40 on drill parts if needed.

1. Fully charge both drill batteries before sampling. Push the red arrow button so that the arrow is pointing toward the black pump head is out.

2. Lock the brass clamp into place on the head of the drill pump by tightening the screws. The black clip should be facing away from the pump head. Once in place, press the prefilter end of the tubing (larger end) into the clip to hold in place.

3. Open one of the drill pump adapter kits and remove tubing.

4. Unlock the quick-lock lever and push the hose guides up to the open position. Insert tubing into the open pathway with the prefilter on the left and luer-lock connector on the right.

5. The luer lock connector should be flush with the side of the pump. Push both hose guides down to the closed position and lock the quick-lock lever to hold tubing in place.

6. Open one of the Wilderlab kit bags and put the gloves on. Take the filter out of the kit bag and screw onto the luer-lock connector. Place graduated measuring jug so that outflowing water will be captured and measured.

7. To sample, hold the prefilter just below the surface of the water, gently press the trigger of the drill to start pumping at a low speed. Continue pumping until ~1L has been collected into the graduated measuring jug.



8. Once sampling is completed, follow instructions on the back of the Wilderlab kit bag on how to properly preserve the filter for analysis. If using pump adapter tubing with a 6-rep kit, purge air from the tube between each sample.



Submit your samples online at wilderlab.co/submit-samples

Print and sign the Chain of Custody (CoC) form that will be emailed to you after online sample submission. Include this in the parcel containing your samples (no refrigeration necessary).

Send your samples back to us within one month from collection

If this isn't possible, ensure that your samples are stored in a freezer at -20 C until you send them.

Send your samples and CoC form to the address provided in the auto-email



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Pump Set-Up:

