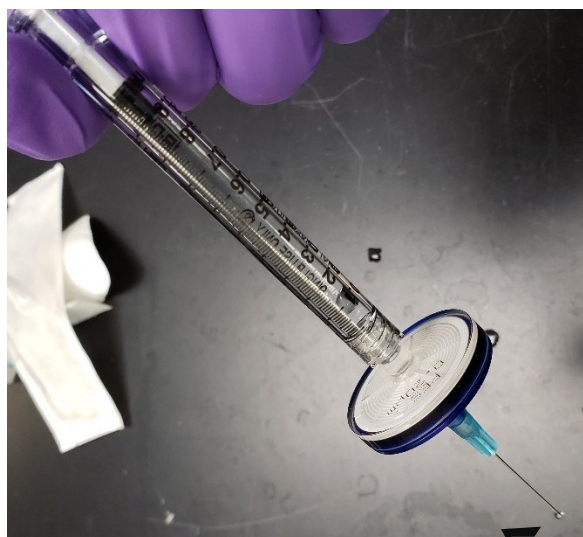


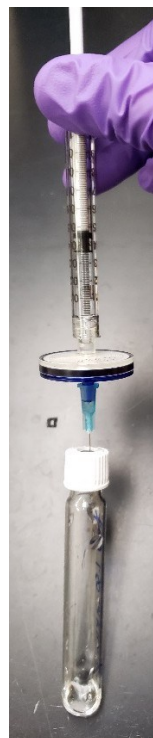
### Sampling for DIC in Exetainer Vials

#### To collect DIC samples into Exetainer vials:

- Vials have been pre-acidified and flushed with helium – do not uncap
  - Fill syringe with water
  - Attach filter and needle; discard water through both to eliminate any air (~ 1 mL dead volume)
  - Detach filter and needle; refill syringe taking care not to entrain air
  - Attach filter and needle; push water through again until clear no air; pierce septa with needle and inject sample into vial depending on DIC concentration (best results come from depressing the syringe from, for example, 0.7 mL → 0.2 mL instead of 0.5 mL → 0 mL)
  - Store samples at room temperature in the dark (do not freeze)
  - Target sample size is 200 µg C
  - Example injection volumes are:
    - Seawater: 6 mL
    - Groundwater (>4 mM DIC): 3 mL
    - Porewater (>100 mM DIC): 0.5 mL
- Do not inject >6 mL or it cannot be run on the MICADAS!



No air!



Inject by piercing septa

Item	Catalog number	Supplier
25 mm x 0.2 µm PES syringe filter	28145-501	VWR
1 mL Luer-Lok PE syringes	BD-309628	VWR
5 mL Luer-Lok PE syringes	BD-309646	VWR
10 mL Luer-Lok PE syringes	75846-756	VWR