

## Sampling Instructions for Collecting Grab Samples in Canisters

Please Read The Following Important Information Before Starting

- *Canisters cost around \$500 and should be treated as precision sampling equipment. Be careful not to drop or damage the canisters.*
- *The cap on the canister is important to hold the canister vacuum and protect sample integrity. Be sure to keep the cap on tight until you are ready to use the canister.*
- *The Canisters are sent under a vacuum of 29.5" Hg. The vacuum is checked in the laboratory before shipment. If you want to check the vacuum in the field, use a digital vacuum gauge to get an accurate reading. The gauges on the flow regulators are mechanical gauges and only give an approximate vacuum.*

SUMMA Canisters or Silico Canisters can be used for both ambient air sampling and source sampling. The canisters should only be filled to a maximum pressure of 30 psig. The canisters and valves are constructed of Stainless Steel and are temperature resistant, but the valve should not be subjected to prolonged temperatures over 150 C.

### PROCEDURE:

- Use a 9/16inch wrench remove the cap from the canister valve. If a Stainless Steel or Teflon sampling line is used, make sure it has been cleaned and preferably verified clean.
- To sample, open valve by turning the green knob. The sound of air rushing into the canister can often be heard. Leave valve open for about 1 minute to make sure the canister fills completely. A slight vacuum can be left on the canister by closing the valve toward the end of the rushing sound.
- Close the valve. Only light tightening is needed for valve to seal. Put the cap back on immediately.
- Screw on the brass cap and tighten securely with a wrench.

- Fill out Sample Custody Sheet with date, time, location, and any additional information you desire.
- The canister can be shipped back to the lab at room temperature. There is no preservation needed. The holding time for the canister for most methods is 30 days. Verify this with the project plan or regulator.
- Place canister and custody sheet back into the box and place the shipping label on the outside of box. Send back UPS. The value of the canisters is \$500 each and the client is responsible for the canisters until they are delivered to EAS.

## **When Done:**

Ship the Sampler and Canister back to Environmental Analytical Service, Inc.

Environmental Analytical Service, Inc.  
173 Cross Street  
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