Air Sampling Instructions

The air sampling pump provided has been specifically designed to operate at a **low flow rate of approximately 200 milliliters per minute (mL/min)**. This flow rate is the manufacturer's specified operating condition for the charcoal sampling tube and is intended to ensure proper collection of airborne contaminants.

Increasing the sampling flow rate above this level **will not improve contaminant collection**. The three-stage activated charcoal media within the sampling tube is engineered for optimal performance at approximately **200 mL/min**. Operating the pump at higher flow rates may reduce sampling efficiency and may allow certain compounds to pass through the sampling media without being captured.

The air sampling pump has been **pre-calibrated prior to shipment**. However, users should verify the flow rate prior to sampling. After turning the pump on, confirm that the **black indicator ball within the flow meter aligns with the reference arrow** on the pump housing.

Air Sampling Procedure
(Refer to the instructional video: [INSERT YOUTUBE LINK])

Note: The air sampling pump has been fully charged prior to shipment.

1. Carefully break the ends of the glass sampling tube following the instructions provided in the instructional video.
2. Insert the sampling tube into the pump tubing with the **arrow on the tube pointing toward the pump inlet tubing**, indicating the direction of airflow.
3. Set the sampling timer to **two (2) hours**.
4. Place the sampler in the **area of concern** or the location where air quality is to be evaluated.
5. Record the **sample serial number** (printed on the glass sampling tube) on the **Chain of Custody (COC) form**.
   If multiple samples are collected in different locations, clearly document the **sampling location associated with each serial number**. This will allow proper identification and interpretation of laboratory results for each sampling location.

6. Turn on the pump. If necessary, adjust the flow control knob so that the **black indicator ball in the flow meter aligns with the reference arrow**, confirming the target flow rate of approximately **200 mL/min**.
7. Record the **sampling start time** on the Chain of Custody form.
8. Allow the sampler to operate for **two (2) hours**.
9. After two hours, turn off the sampling pump and carefully remove the sampling tube. Immediately place the **red protective caps** on both ends of the tube to preserve the sample. Take care to avoid breaking the glass tube. Place the capped tube into the **protective cylindrical storage container**.
10. Contact **Sullivan Environmental Consulting** by text message at **202-853-0204**. A representative will call you to review the sampling procedure, assist with completion of the Chain of Custody form if needed, and provide instructions for sample drop-off based on your location. As soon as we receive the sample(s) from you, we will facilitate the laboratory analysis and sample transfer within one business day.