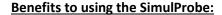
BESST Mini SimulProbe®

Simultaneous soil core and soil gas sampling

BESST's Mini SimulProbe is used in exploratory borehole drilling to collect a simultaneous soil core and soil gas sample. The probe is driven into the ground by a hammer. The soil is driven inside the core-barrel. The probe is lifted two inches, opening a hidden compartment that channels the soil gas into the probe through two Teflon straws located in the split half grooves that run along the edges of the core barrel. A vacuum pump is connected to a tube running from the probe to the surface. The vacuum pump is used to collect the gas directly from the soil. Once the gas sample has been collected using a Tedlar bag, Suma Canister or Soil Gas Syringe, the probe can be removed from the borehole

> and the soil core sample can be easily removed from the SimulProbe for shipment to a laboratory.



- Representative sampling: Soil core and soil gas sample are taken at the same place.
- VOC measurement: The VOC's are directly collected from the ground which limits cross containination of sample.
- Time savings: Quick setup and mobilization. System can be used with photoionization detector (PID) for on-site results.
- **In-Situ Head Space Test: Enhances** accuracy of on-site field measurements by directly sampling the soil-gas downhole, rather than using unreliable ex-situ methods which damage sample integrity.



Figure 1 - Mini Probe deployed in hollow stem augur.

Features:

- Length: 2 feet
- Maximum outside diameter: 2 inches
- Core dimension: length 17.4in, diameter 1.18in
- Top connection: AW (custom options available upon request)
- Rig compatibility: Hollow Stem Auger, Air Rotary Casing Hammer, **Dual Wall Percussion, Sonic**





