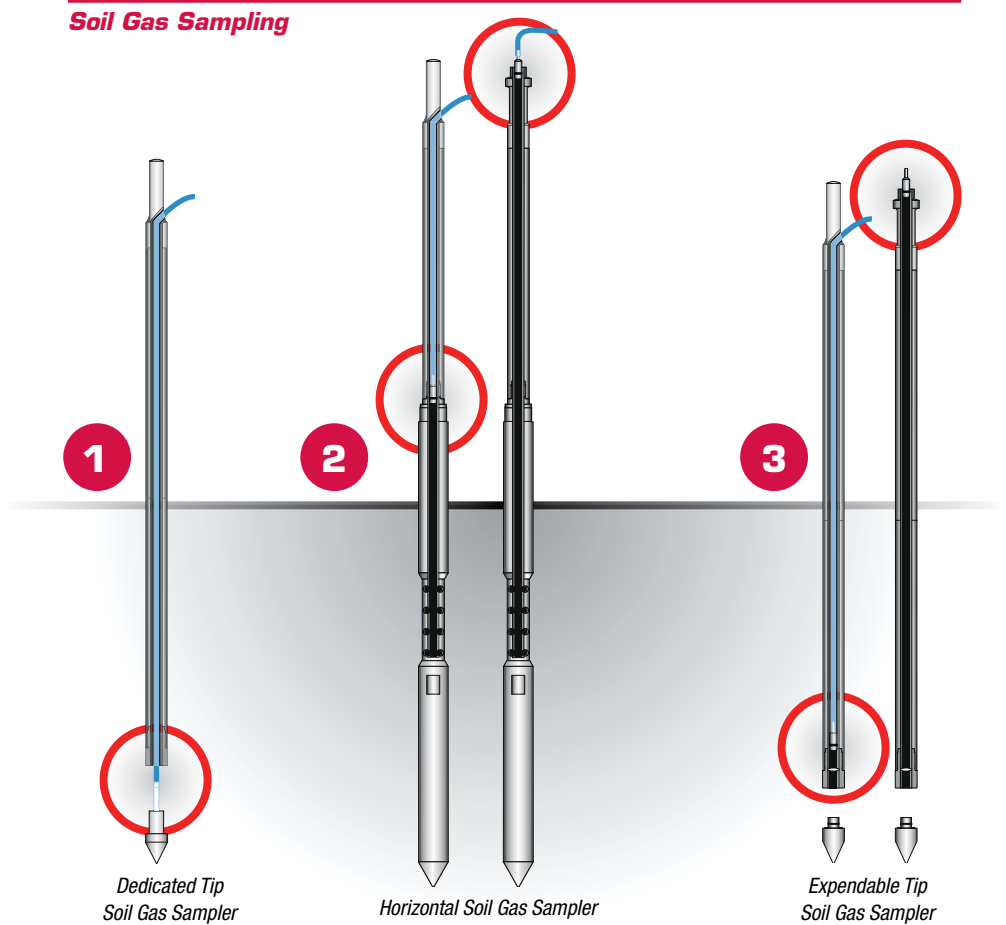


## Soil Gas Sampling with Direct Push

Soil gas sampling with direct push methods are commonly used with soil gas surveys for the investigation of volatile organic compounds. AMS offers a soil gas sampling system with a number of options to allow sampling for a wide variety of regulatory and standard procedures.



### Soil Gas Sampling Application:

The soil gas sampler is small-diameter tooling consisting of direct push extensions with expendable, retractable, or dedicated drive tips. The tooling is driven into the subsurface through the direct push of the PowerProbe™. When they are at the desired depth, the drive point is retracted or detached by pulling back on the tooling, exposing an inlet section with holes or a screen. The purging and sampling may begin using an AMS vacuum pump, vacuum station, or other sampling instrument.

**Dedicated Tip** Designed to be pushed single tube without pre-boring and collect a point source soil gas sample. The tubing and tip can be left in place for future assessment of the job site using the same sampling point.

#### Horizontal Soil Gas Sampler

To ensure an accurate sample from a very precise target sampling point, the horizontal soil gas sampler is your tool.

**Expendable Tip** Designed to be pushed single tube without pre-boring and collect a point source soil gas sample.

**Recommendation** Use the 1 5/8" or 1 1/4" with single tube tooling only.

- Ability to penetrate
- Efficient rate of penetration
- Seal the top
- Expend the tip
- Purge the ambient air at low flow
- Finish by extracting using a low flow vacuum

**Recommendation** Use the 1 1/4" expendable tip for a dual tube install.

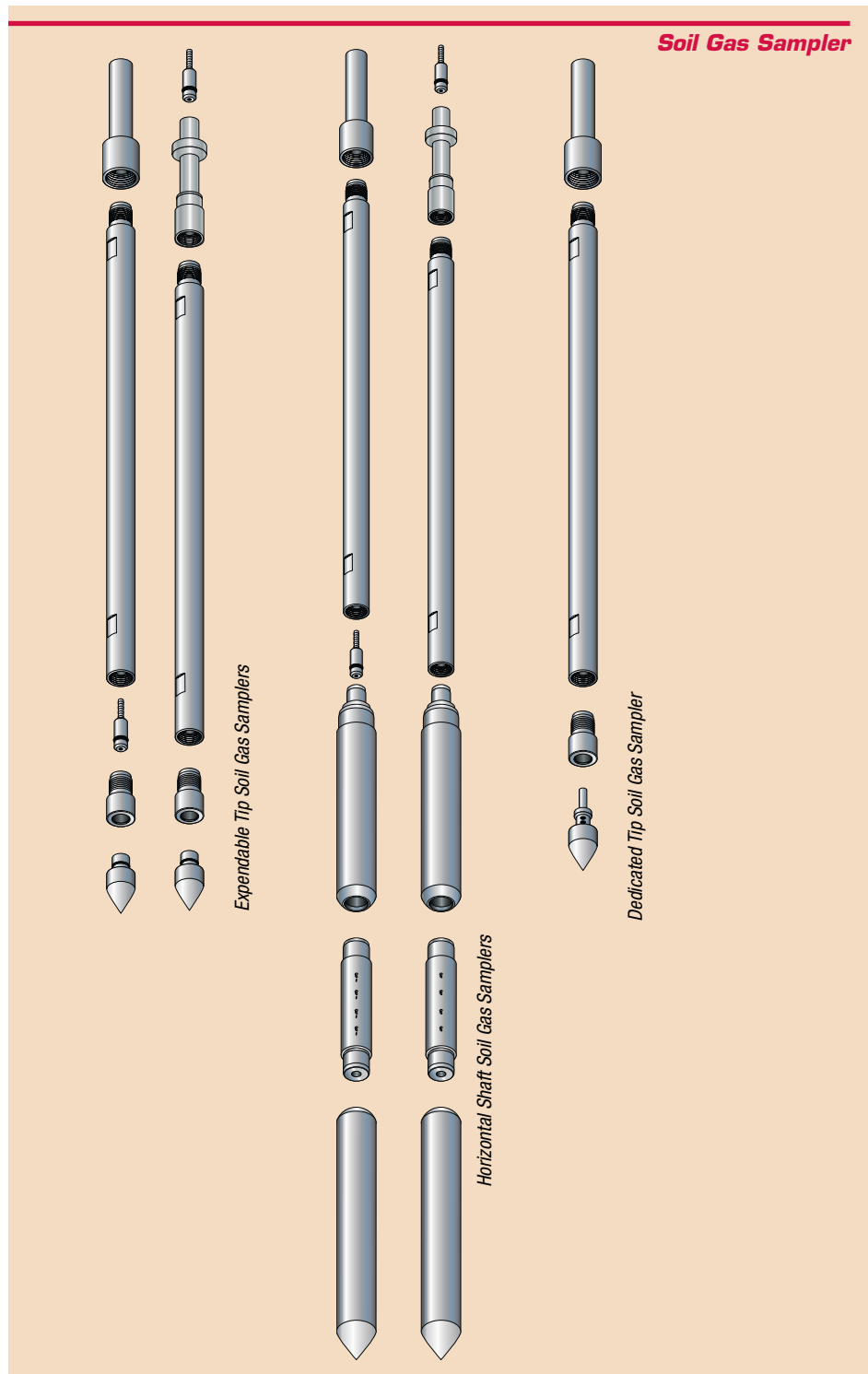
- Drive down with dual tube system
- Pull out internal dual tube components
- Drop Bentonite
- Hydrate with water
- Drop the single tube down
- Push through Bentonite, generating a seal
- Purge the ambient air at a low flow
- Finish by extracting using a vacuum

## Soil Gas Samplers

Soil gas samplers are used to take samples of soil gas from the vadose zone. They sample primarily volatile organic contaminants and are used during a soil gas survey and/or a soil gas investigation.

### Features

- Rapidly collect the sample at specific depths.
- Penetrate to sampling point quickly.
- Easy to use and easily adapts to existing tooling.
- Inexpensive survey tool.
- Use in a wide variety of methods.



Soil Gas Sampler

### 1 5/8" Tooling

52263	1 5/8" w/ 1 1/4" Thread - Fishing Tool
5008.27	1 5/8" w/ 1 5/8" Thread - Fishing Tool
5006.99	0-Ring Kit for 1 5/8" DP Extensions (25)
52644	1 5/8" Mako Tip
52744	1 5/8" Dedicated Monitoring Tip Set with Dedicated Monitoring Tip Holder
52745	1 5/8" Dedicated Monitoring Tip Holder
52746	Replacable Screen for Dedicated Monitoring Tip
52747	Dedicated Tip Set including Barbed Insert Connector, Screen, and O-Ring
52748	Replacement O-Ring Kit (25) for 52747
210.05	3/16" Barbed Insert Connector
5008.28	1 5/8" Thread Chaser
5008.29	1 5/8" Thread Protector Cap
5006.96	1 5/8" Injection Coupler
52642	2 1/4" Drive Cap w/2" Hex for 1 5/8" Internal Tooling
52643	2 1/4" Internal Drive Point Hex Holder w/Bit for 1 5/8" Internal Tooling
5006.94	1 5/8" x 4' DP Extension

### 1 1/4" Expendable Tip Soil Gas Sampler

5005.86	1 1/4" Drive Head Adapter
5005.74	1 1/4" x 4' DP Extension
5004.58	50 Mesh Stainless Screen for Tip Holder
5004.55	1 1/4" Expendable Tip Holder, Threaded
5005.80	1 1/4" Pull Cap
5004.56	1 1/4" Expendable Tip
5004.45	Twist-to-lock Connector, 3/16" ID
5004.43	Twist-to-lock Connector, 1/4" ID

### 1 1/4" Dedicated Tip Soil Gas Sampler

5005.86	1 1/4" Drive Head Adapter
5005.74	1 1/4" x 4' DP Extension
5004.57	1 1/4" Dedicated Tip Holder, No Thread
5004.52	1 1/4" or 1 1/8" Dedicated Tip, Threaded
210.05	3/16" Barbed Insert

### Tubing and Expendables

5004.47	48 Silicone Tube #15 x 50'
5008.07	O-Ring Kit for 1 3/4" DP Extension
5004.66	Stainless Steel #120 Mesh Screen for Expendable Drive Tip Holders
5004.59	Stainless Steel #100 Mesh Screen for Expendable Drive Tip Holders
5004.48	48 Silicone Tube #15 x 500'
5004.41	Poly Tube 3/16" ID x 1/4" OD x 500'
5004.42	Poly Tube 3/16" ID x 1/4" OD x 250'
214.98	3/16" ID x 1/4" OD Fluoropolymer Tubing (50')
214.99	3/16" ID x 1/4" OD Fluoropolymer Tubing (100')
215.00	3/16" ID x 1/4" OD Fluoropolymer Tubing (250')
215.03	1/4" ID x 3/8" OD Fluoropolymer Tubing (50')
5004.58	50 Mesh Stainless Screen for Tip Holder
5004.83	O-Ring for Expendable or Dedicated Tip
5008.02	O-Ring Kit for 1 1/4" DP Extensions (25)
5006.99	O-Ring Kit for 1 5/8" DP Extensions (25)
5004.46	Twist-to-lock O-Ring (each)

**AMS**  The world's finest sampling equipment.

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