The Waterloo Membrane Sampler™ (WMS™) for Quantitative VOC Concentration Determination with the Vapor Pin® Capsule & Vapor Intrusion Kit

The Waterloo Membrane Sampler™ (WMS™) is a passive permeation sampler for quantitatively measuring time-weighted average concentrations of volatile organic compounds (VOCs) in soil gas. Commercially available since 2010, the WMS™ incorporates a polydimethylsiloxane (PDMS) membrane across the face of a vial filled with a sorbent medium. The WMS™-Vapor Pin (WMS™-VP) is specifically designed to fit with the Vapor Pin® sampling device for quantitative VOC sampling in the sub-slab.

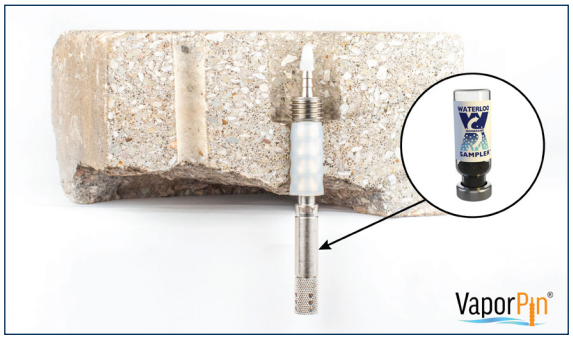
The WMS™-VP URs are calibrated in such a way to prevent sampler "starvation" and is the patented approach for quantitative VOC determination in the sub-surface.

The WMS™-VP advantage:

- Simple and rapid sampling protocols
- Seamlessly switch between active and passive sampling at your site
- Screen large areas
- Time weighted average concentrations (minimizing temporal variability)
- Small and easy to ship
- Inexpensive to replace in the event of damage or loss

The WMS™ advantages for sub-slab sampling include:

- The hydrophobic PDMS membrane is waterproof and protects the sorbent from water saturation
- Calibrated URs prevent sampler "starvation", allowing for quantitative VOC concentration determination
- Uptake rates have been determined for a wide range of compounds and are predicable for many more
- Uptake rates do not fluctuate significantly with temperature or moisture level changes
- Very strong sorbent provides high adsorptive capacity if elevated VOC concentrations are encountered
- Cost-effective way to screen large areas of your site



Seamlessly switch between active and passive sampling with the Vapor Pin® Capsule and WMS™-VP for accurate quantitative sampling and analysis for VOC concentrations in the sub-slab.

For more information on **WMS™** contact:

Brent Pautler
bpautler@siremlab.com
519-515-0837 or toll free 1-866-251-1747
visit https://www.siremlab.com/waterloo-membrane-sampler-wms/

siremlab.com