

HYDRASleeve

PATENT #6,481,300

NO PURGE GROUNDWATER SAMPLER

To more effectively sample ground water, especially in low-yield wells, the new HydraSleeve "No Purge" ground-water sampler can cut field sampling costs in half! The low-cost, disposable, HydraSleeve captures a "core" of water from any discrete interval in the screened portion of the well with no change in water level and minimal disturbance to the water column. HydraSleeve is sealed except during sample collection, then re-seals itself, assuring that a representative sample is recovered. The low-profile HydraSleeve can be fabricated in various sizes to match well and sampling requirements. HydraSleeve makes ground water sampling a simple, three-step operation.

FEATURES:

EFFECTIVE

- Sample for ALL compounds
- Best sampler for slow recharge wells
- Repeatable sampling method
- Lower turbidity than purge and sample
- Slim cross section minimizes disturbance

INEXPENSIVE

- Reduces field sampling costs by 50% - 80%
- No-purge water disposal
- No expensive equipment

FAST

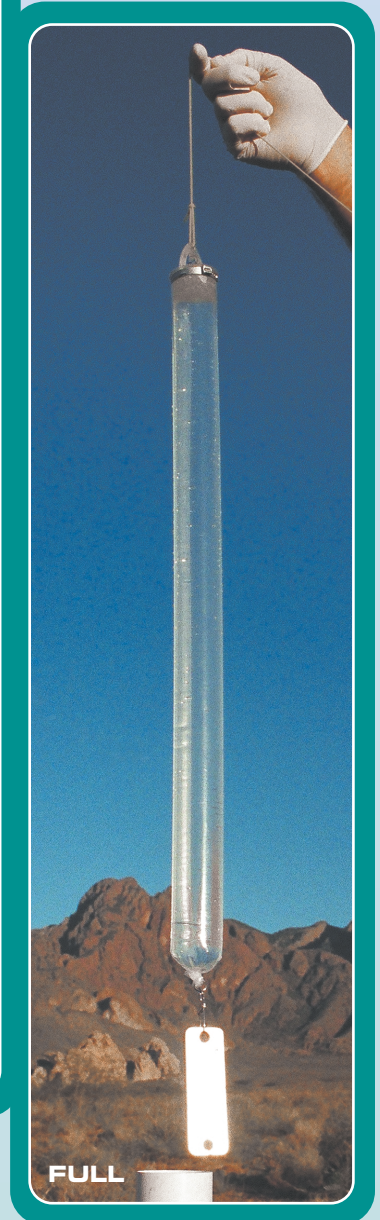
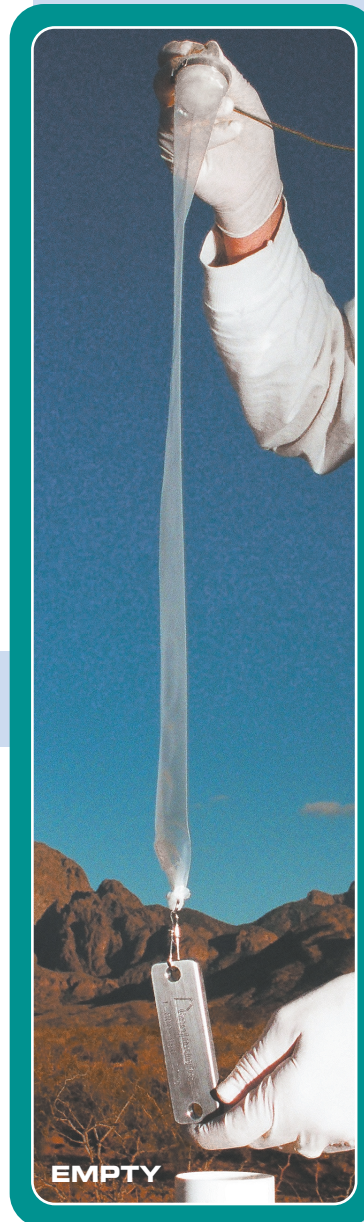
- Collect samples in less than 15 minutes
- Cuts total field time by half or more
- No decontamination

EASY TO USE

- No training or special tools required
- Small, convenient package

USES

- Sample low-yield wells
- Long term ground water monitoring
- Sample crooked or constricted wells
- Vertically define contaminant concentrations
- Sample discreet intervals from surface water bodies & tanks



GeoInsight

www.geoinsightonline.com

HOW IT WORKS

ONE

Placing Sampler

HydraSleeve is lowered into place and positioned in the well screen. Water pressure keeps bag collapsed and check valve closed, preventing water from entering sampler. Well is allowed to return to equilibrium.



TWO

Sample Collection

HydraSleeve fills when the check valve is moved upward faster than 1 fps. It can fill by either continuous upward movement or cycling the sampler up and down. When moving upwards, the check valve opens and fluid flows into the bag. There is no change in water level and minimum sample agitation during collection.



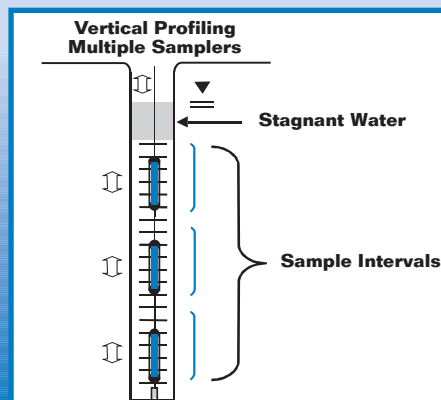
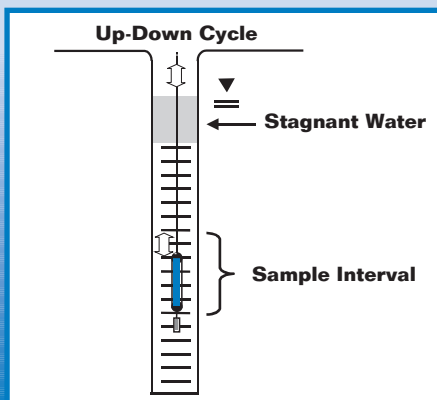
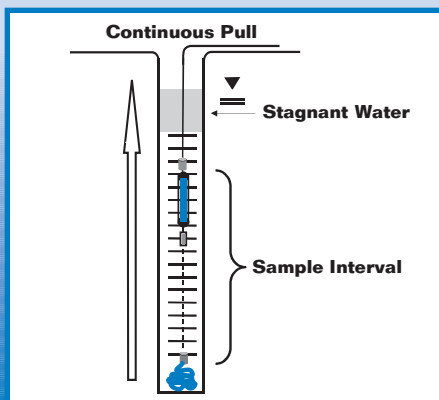
THREE

Sample Retrieval

Flexible bag is full and check valve closed. Sampler is recovered without entry of extraneous, over-lying fluids. Note: Several HydraSleeves may be stacked on the suspension cable for vertical profiling.



METHODS OF SAMPLING WITH THE HYDRASLEEVE



NORTHERN CALIFORNIA HYDRASLEEVE COMPARISON

