Mechanical Bladder Pump
by Geoprobe® Systems

The easy to use Mechanical Bladder Pump from Geoprobe® Systems requires no expensive or cumbersome equipment. Forget about heavy generators, compressors, or pneumatic controllers, this simple to assemble pump collects representative samples of VOCs and other environmental analytes without compromising sample quality. All mechanical movement of the pump is contained inside the pump body eliminating agitation of water in the well and formation.

Operation in the field is simple, all you need is the bladder pump and concentric tubing. The tubing is attached to the top of the pump and extends to the surface. The assembled Mechanical Bladder Pump is then lowered into the monitoring well. During operation, the outer tubing is held in place while the inner tubing is raised and lowered. This action alternatively expands and compresses the corrugated bladder inside the pump. Just a few seconds of pumping brings the fluid to the surface, and a sample is quickly retrieved.

**INTAKE STROKE**
At the surface, the outer tubing is held stable and the inner tubing is retracted...

As the inner tube is raised, the upper check ball seats and prevents water from flowing back down into the bladder...

The corrugated bladder expands, filling with water...

As the bladder expands, the lower check ball opens and water is drawn from the well through the intake screen into the bladder.

**SAMPLE STROKE**
At the surface, the outer tubing is held stable and the inner tubing is lowered...

As the inner tube is lowered, the upper check ball opens and water is pushed up the inner tube to the surface...

The corrugated bladder compresses as the inner tube is lowered and water is forced up and out of the bladder...

As the bladder is compressed, the lower check ball is closed preventing water from flowing out of the intake valve.

GroundTech Solutions® is the exclusive distributor for Geoprobe® Systems in Canada. For more information or to purchase the Mechanical Bladder Pump, call 1-877-877-1862 to speak to your technical service representative today.