



## Double Gate Variable Depth Sampler

The Rotating Drum Variable Depth Sampler is designed to permit collection of undisturbed core samples of liquids, sludge, or silt. These samples can be taken from specific depths within the test material without mixing the material during deployment of the sampler. Additionally, it allows retrieval of the sample without any loss of the sample and seals the sample to eliminate cross contamination during withdrawal of the sampler from the materials under analysis.

### Versatile Design

The Rotating Drum Variable Depth Sampler comprises three aligned drums with rubber sleeves joining them. The center drum can be rotated from the top of the handle causing the rubber sleeves to create a sphincter seal above and below the sample chamber. This action fully seals off the enclosed sample thereby preventing sample loss or contamination during retrieval operations.

All operations are conducted manually by the operator. The sampling system requires no power supply or electricity to operate and is designed to fit through an opening as small as three inches in diameter. The unit is lightweight; non-corrosive; and easy to operate, load and unload, and maintain.

### at a glance

- Collects undisturbed samples
- Samples liquids, sludge, or silt
- Seals samples eliminating contamination
- Can be deployed through small openings
- Easy load and unload of samples

## **Technology transfer**

SRNL is the applied research and development laboratory at the Savannah River Site (SRS). With its wide spectrum and expertise in areas such as homeland security, hydrogen technology, materials, sensors, and environmental science, SRNL's cutting edge technology delivers high dividends to its customers.

SRNL and SRS are managed for the U.S. Department of Energy by Washington Savannah River Company (WSRC). WSRC is responsible for transferring technologies to the private sector so that these technologies may have the collateral benefit of enhancing U.S. economic competitiveness.

## **Partnering opportunity**

WSRC invites interested companies with proven capabilities in this area of expertise to enter into a licensing agreement with WSRC to market this device as a commercial product. Interested companies will be requested to submit a business plan setting forth company qualifications, strategies, activities, and milestones for commercializing this invention. Qualifications should include past experience at bringing similar products to market, reasonable schedule for product launch, sufficient manufacturing capacity, established distribution networks, and evidence of sufficient financial resources for product development and launch.

## **for more information**

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