



reducing geotechnical uncertainty

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## DATA SHEET

## OUR SAMPLER 'MENU'

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### PPI (Piston Pneumatic Injection) Sampler

Our 'flagship' soft soil and tailings sampler. Developed entirely in-house. Under a process of continuous improvement, it is now relatively fast & efficient to use.

All 316 stainless steel. 63mm dia x 850mm long. <10% area ratio. Stationary piston. Uses high pressure gas burst to 'cut' the sample free from the ground. Replaces suction with a modest air pressure when pulling out.



*So far this sampler has exceeded our highest expectations.*

*We have obtained 100% recovery of every sample attempted in very soft or firmer soils.*

*We have also sampled tailings with qc <100kPa.*

### Vertek Piston Sampler

All 316 stainless. 35mm dia sample. 50mm OD. Has a floating piston. Core catchers for loose granular soils. Very tough so it can sample tough soils. Sample tube or splits can be used.



### Window Sampler

*Sampling thru fill & etc*

Window samplers have been used in Europe for decades. We recently introduced them into IGS 83mm and 95mm dia. They can be pushed or driven into almost anything - even ballast



### Eziprobe Sampler

Our Eziprobe Sampler can take continuous samples from ground surface in any material that will stay 'open' when the sampler is withdrawn. Useful for PASS samplings etc.



### Vibracore Sampler

Our own design of vibracore sampler in 1.8m or 3.5m length. Using a floating "suction" piston to help retain the sample. A similar flap to the PF Sampler can be used.



### PF (Piston Flap) Sediment Sampler

This sampler has evolved from our PPI sampler and our vibracore. It can be used to take discrete samples of ooze with 'almost liquid' properties. It has an active floating suction piston and a flap valve.



### BS (Bulk Sediment) Sampler sample from 20m

Our BS - bulk sediment - sampler is a semi-continuous low-flow-&-pressure air-lift sampler that we developed to take discrete large volume samples of very soft to soft sediments. It works. It is very fast to use.



*In addition to the sampling above, we also install standpipes and piezometers, and we undertake several types of in situ tests: CPT, Tee-Bar, DMT, SDMT and Vane Shear. In situ tests are described on a separate Data Sheet.*