

IGS can do anything *(almost)*



www.insitu.com.au



OUR IN SITU TESTS

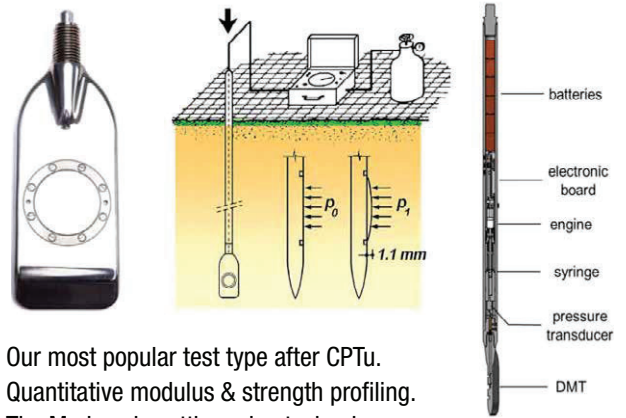
CPT & CPTu



We offer a range of Test Categories, from routine CPT & CPTu to special-type and quasi-research. We claim the most sensitive, accurate and defensible testing available.

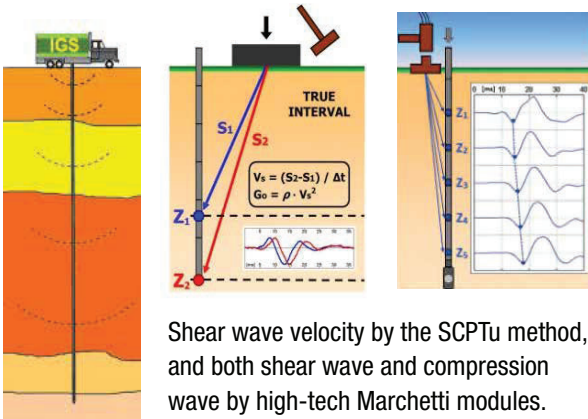
DMT

Medusa DMT



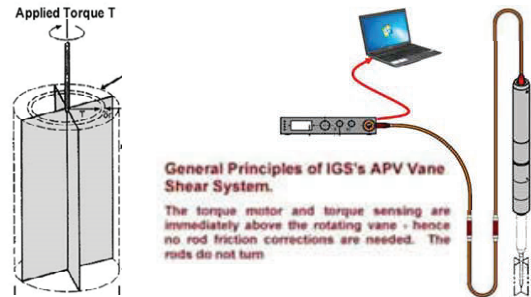
Our most popular test type after CPTu. Quantitative modulus & strength profiling. The Medusa is cutting edge technology.

Seismic S-Wave & P-Wave Profiling



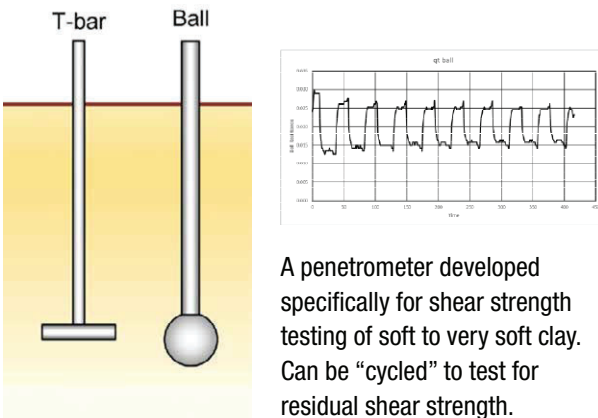
Shear wave velocity by the SCPTu method, and both shear wave and compression wave by high-tech Marchetti modules.

Direct-Push Vane Shear



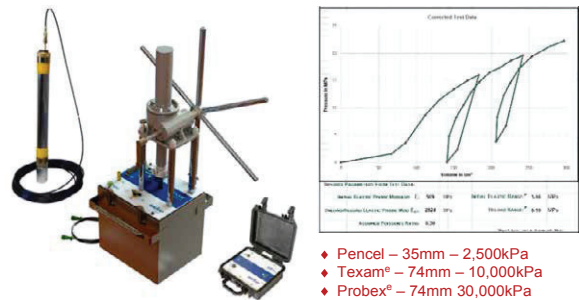
Direct-push Vane Shear Testing is "everyday stuff" for IGS. We typically use vane sizes ranging from 50x100mm to 75x150mm but occasionally we use 100x 200mm vanes.

Full Flow Penetrometers Tee-Bar and Ball-Cone



A penetrometer developed specifically for shear strength testing of soft to very soft clay. Can be "cycled" to test for residual shear strength.

Pressuremeter Testing



- ◆ Pencil – 35mm – 2,500kPa
- ◆ Texam® – 74mm – 10,000kPa
- ◆ Probex® – 74mm 30,000kPa

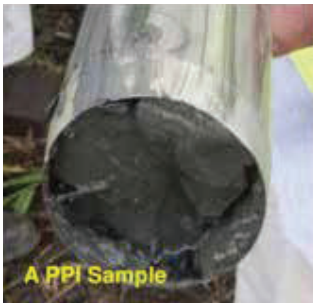
With these three pressuremeters we can test materials ranging from soft clays to medium strength rock, in boreholes and (with the Pencil) also by direct-push.



In addition to the above we offer many other services including Soil Moisture and Resistivity Profiling, Constant and Falling Head Permeability Testing, direct push installation of standpipes and piezometers.

OUR DIRECT-PUSH SAMPLERS

PPI – Best Quality Fixed Piston Sampler



Our flagship sampler. This takes 63 or 75mm diameter samples about 800mm long that are arguably as close to undisturbed as you can get by any means other than research-level block sampling.

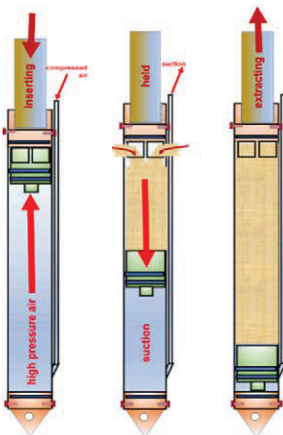
This sampler is used in very soft to firm cohesive soils; typically it is used for sampling for high quality laboratory strength and compressibility testing.

Vertek & Ranger Piston Samplers



Our Vertek Ranger Samplers are floating piston devices that can take samples in almost any soil type. Diameters:: 35mm, 46mm, 66mm. Samples can be tubed or bagged.

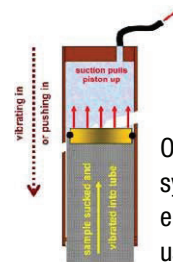
Little Sucker and Big Sucker



These samplers are used with 100% success to discretely sample “ooze-like” and liquid sediments and tailings materials.

The Big Sucker takes two samples at once, 1m apart vertically.

Vibracore



Our vibracoring system is enhanced by using a floating

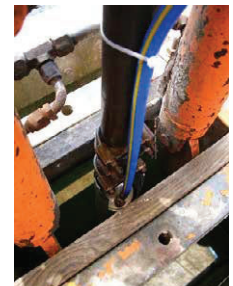
piston to keep the tube closed during insertion then to help retain the sample by a positive suction on withdrawal.

Window Sampler



Our “crudest” sampler. Window Samplers can be used to (a) take samples of coarse and gravelly material (eg rail ballast and subgrade), or (b) to pre-core through a stiff surface layer to allow other testing and sampling below. Telescoping design, 85mm and 95mm diameter.

Bulk Sediment (BS) Sampler



Our BS Sampler is used to air lift “ooze-like” samples (eg semi-liquid tailings) from any specific depth. Very large bulk samples can be taken, that are not water-duluted.



We are continually improving, updating and expanding our fleet and range of services, so if you don't see what your project requires here, please give us a call and we will work with you to come up with a solution.

Our Rigs



Eunice



Beryl



Eileen



Esme



Tough Tommy



Lizzie



Minnie



Mad Mack



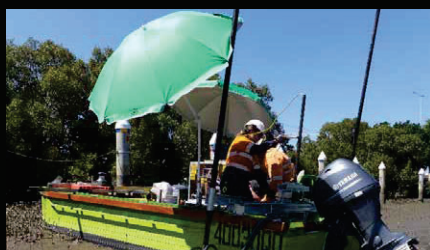
Baby Jayne



Little Jack



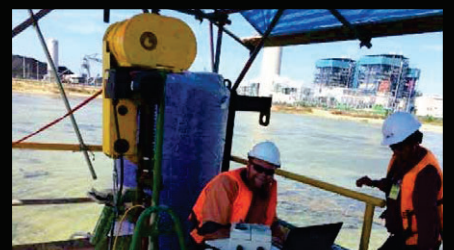
Mudskipper



Punt Rig



Little Meri (PNG Rig)



Mighty Mouse

Contact Us

Mark Chapman:
mark@insitu.com.au
0437 824 776

Michael O'Rourke:
mick@insitu.com.au
0407 467 025

Wyn Binmore:
wyn@insitu.com.au
0417 423 769

Sergey Skrobotov:
sergey@insitu.com.au
0407 467 065



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