



IGS News

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Geotechnical Services

- CPT & Piezocone
- Dilatometer
- Seismic Dilatometer
- Vane Shear
- Tee-Bar
- Piston & Eziprobe Sampling
- PPI Piston Sampling
- Piezometer Installation
- In Situ Permeability

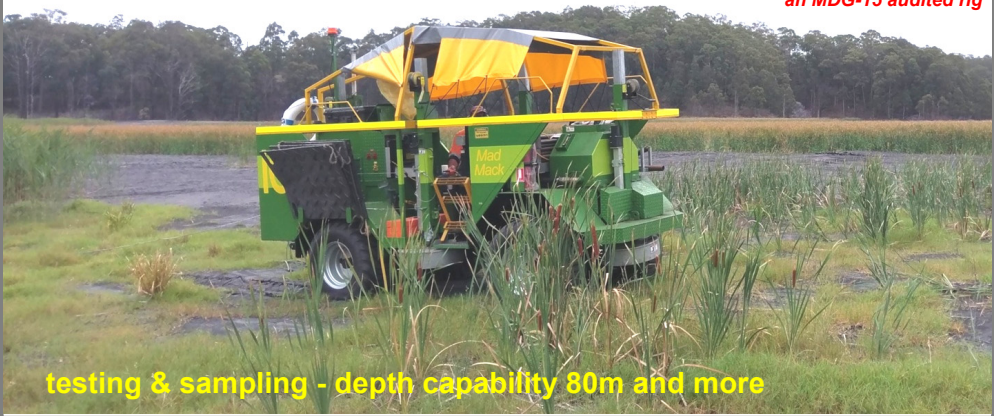


"Mad Mack" & "Mudskipper" - The A Team

Mad Mack - designed and built in-house by IGS to work self-propelled on very soft sites, in particular on tailings dams.

- 4t mass on huge flotation tyres running at 25-30 kPa pressure
- capable of all IGS tests and sediment sampling systems

an MDG-15 audited rig

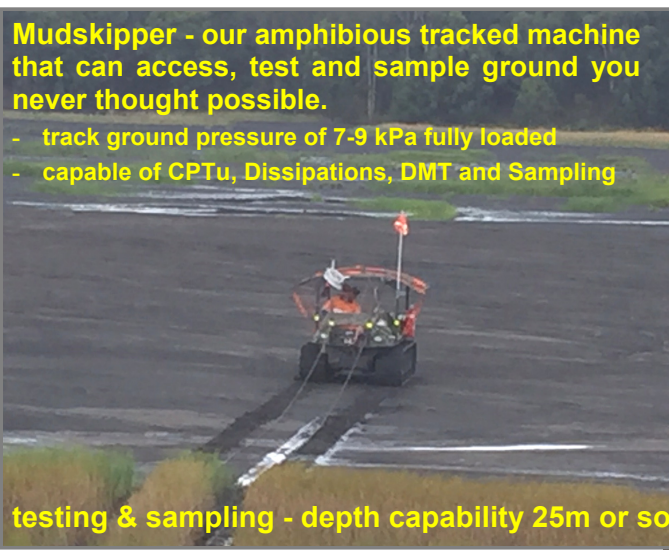


testing & sampling - depth capability 80m and more

Mudskipper - our amphibious tracked machine that can access, test and sample ground you never thought possible.

- track ground pressure of 7-9 kPa fully loaded
- capable of CPTu, Dissipations, DMT and Sampling

an MDG-15 audited rig



testing & sampling - depth capability 25m or so in very soft conditions



How they work together:

- Mudskipper accesses and probes by shallow CPT to quickly and quantitatively assess access (bearing capacity) for Mad Mack. Mad Mack uses this to access the site safely.
- If the client wants data beyond the limits of Mad Mack's access capability, then CPTu, PPDT and Sampling is done by Mudskipper. There is almost no place we cannot test & sample this way, but of course depth is limited by push capability - so far ~25m tested.
- Safety is assured by twin recovery lines attached to either/both rigs when accessing. These lines are super-strong Dyneema; for winch recovery where and as needed.

Experience to date:

These rigs having been working as a "symbiotic" team at Glencore's West Wallsend Colliery tailings dam in the Hunter Valley. We have similar projects "lined up ready to go".

We thank Glencore at West Wallsend for permission to make this newsletter, and for working with IGS to develop the safe working systems needed to make this work possible. Consultants on the job are ATC Williams.

reducing geotechnical uncertainty