

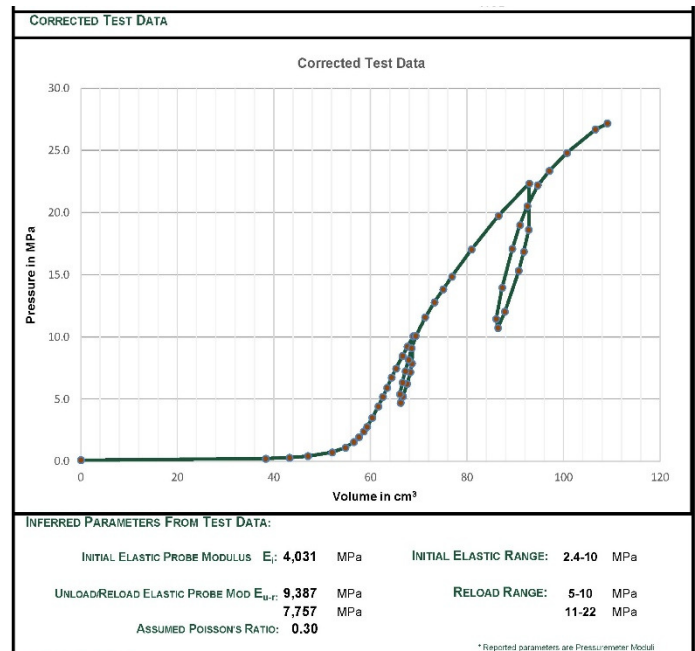
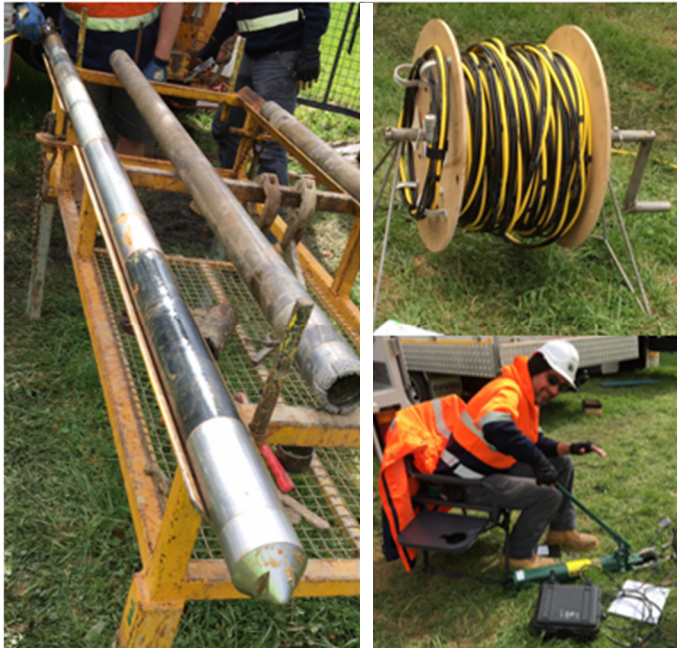


EXPLANATION SHEET

PROBEX^e PRESSUREMETER

10,000kPa maximum pressure
74mm diameter – for rock testing

23 February 2021



- Roctest 74mm diameter Pressuremeter for testing rock in N-sized or similar cored boreholes.
- Testing can be undertaken from hard clay and some dense sands and very low strength rock to medium strength rock.
- Load, unload and reload cycles possible.
- Probe maximum pressure capacity = 30MPa.
- Maximum test depth – currently ~100m.
- Pressure and volume measured by transducers with Bluetooth electronic logging and real-time graphing.
- Optimum cored borehole diameters between 75mm and 80mm.

The pressuremeter is a well-established geotechnical test that yields a stress strain type of curve from which different geotechnical parameters can be derived, including:

- Insitu lateral stress – k_0 .
- Young's Modulus E .
- Constrained Modulus (by calculation).
- In some weaker rock types and in hard/dense soils, strength and/or friction angle may be obtained by extrapolation.