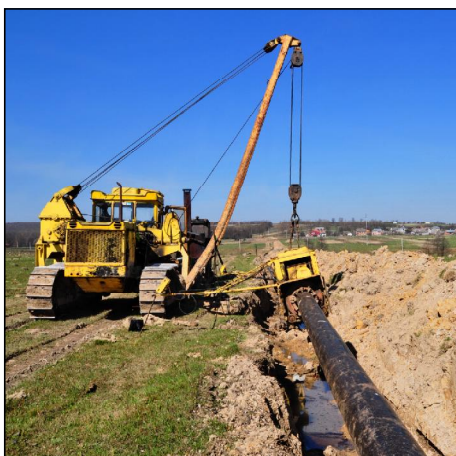




The cornerstone of independent excellence

Soil & Rock Testing for the Geotechnical Community *Thermal Properties*

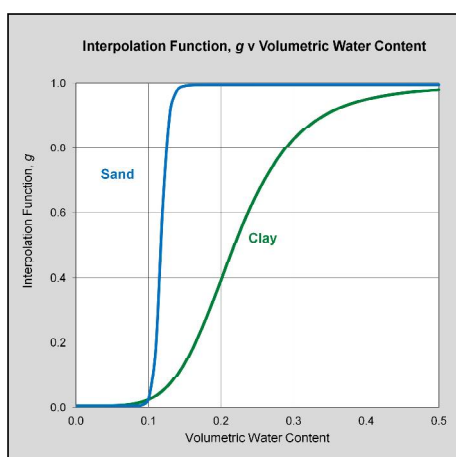


The Facility

- Thermal conductivity of soils and soft rocks by thermal needle probe procedure in accordance with ASTM D 5334-08.
- Thermal resistivity in accordance with IEEE 442-03 heat transfer theory.
- Specific heat and thermal diffusivity properties.
- Environmentally controlled testing area maintained to better than $\pm 2^{\circ}\text{C}$.

The Analysis

- Thermal conductivity and resistivity determinations for buried pipe and cable applications.
- Resistivity measurement of fluidised thermal backfill.
- Geothermal properties of grout and bentonite for ground source heating and cooling specifications.
- Thermal conductivity of compacted bentonite for radioactive and hazardous waste repository design.
- Measurement of material heat requirement (volumetric specific heat capacity) and rate of temperature change (thermal diffusivity).
- Moisture content and conductivity or resistivity relationship as thermal dryout curves.



The Benefits

- Independent testing facility devoted to commercial and research geotechnical testing.
- An all-round service of the highest standard backed by a fully documented quality management system
- A fully integrated soil and rock mechanics facility capable of performing a wide range of disciplines from routine testing through to state of the art advance testing.

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