



GROUND TECHNOLOGY



Instrumentation and Monitoring

Ground Technology offers a wide range of insitu instrumentation and monitoring services for groundwater, ground gas, ground movements and water quality applications.

Utilising our in house drilling rigs we are able to install a variety of instruments for geotechnical and environmental observations and measurements including:

- Gas and Groundwater Monitoring Standpipes and Piezometers
- Vibrating Wire Piezometers
- Pneumatic Piezometers
- Inclometers
- Extensometers
- Slip Indicators

We have a range of data loggers, monitoring and sampling equipment available and a team of engineers and technicians trained in their use. Our in house monitoring capability includes:

- Infra Red Gas Analysis: Landfill type gases (CH₄, CO₂, O₂, H₂S, pressure and flow)
- PID Analysis: Volatile Organics and Vapours
- Gas Sampling for laboratory analysis (landfill gases and organics)

- Water Level: Solinst Level Loggers and Dipmeters, Pneumatic and Vibrating Wire Piezometer Readout Units
- Water Quality: Sampling and Lab Analysis or Insitu Meters to measure Temperature, Conductivity, Dissolved Oxygen, pH and Redox Potential
- Inclometer Probe for lateral ground movements
- Read Switch Probe for vertical ground movements (extensometers)

We also operate various software packages to download, display and analyse results of ground movement, ground gas and ground water observations.