



SERVICE DATA SHEET

Environmental Sampling & Monitoring

Allied Exploration & Geotechnics Limited (AEG) offers an extensive range of instrumental techniques and expertise for the measurement of in-situ gas and water parameters in the surface and sub-surface environment. All monitoring equipment is fully calibrated and used by experienced environmental personnel who adhere to safe working practices. All sampling protocols, preservation techniques, sample containers and time-to-analysis comply with EN ISO 5667-11: 2009, BS 6068: Section 6.11 2009; Guidance on the Preservation and Handling of Samples.

Gas

- ◆ Non-dispersive infra-red Instrumentation (MCERTS approved) for simultaneous soil gas monitoring (e.g. CH₄, CO₂, CO, O₂, H₂S, HCN, SO₂, NO₂, Cl₂, flow, ambient temperature (°C), differential pressure) in single or dual gas valve standpipe installations. This includes the circulation of gas over the entire column of the response zone.
- ◆ On site screening for SVOCs, VOCs, TOC's in soil and groundwater by photo-ionisation/flame-ionisation (PID/FID) detection using head space analysis.
- ◆ Ground gas sampling using Tedlar/Gresham units and ambient air monitoring using gas diffusion tubes for laboratory analysis.

Groundwater

- ◆ Purging and development of groundwater in monitoring wells to BS 10175:2011+A1:2013, including CMT multilevel borehole systems for sampling of discrete isolated zones to identify groundwater flow patterns and contaminant distributions
- ◆ Ground and surface water sampling (including trade effluents) with, if required, on-site filtration, preservation and in-line field measurement of up to thirteen water quality parameters (including EC, DO, pH, T°C, redox potential (Eh), alkalinity, turbidity, salinity, colorimetry) using calibrated portable field devices.
- ◆ Discrete interval sampling of oil/product layer, for obtaining heavy oil (DNAPL) and/or light oil (LNAPL) samples, or for volatile and dissolved gas sampling of groundwater from combined groundwater gas monitoring installations.



Summary

We offer dedicated gas and groundwater monitoring and sampling which not only supports the intrusive site investigation arm of the business, services can also be procured directly as standalone commissions.

The facility exists to subcontract chemical contamination/microbial analysis of soil, water, leachate and gas samples to certified quality assured laboratories. This includes applying industry competitive rates with minimal on-cost.

In accordance with EA hazardous waste landfill regulations, we can conduct sampling for testing to BS 12457-3 and can advise and arrange for disposal of contaminated materials.

This represents a small sub-set of our services, further information can be provided on request.

Benefits

- Monitoring and sampling services that consistently follow normative UK guidelines.
- All equipment fully calibrated and checked routinely for defect.
- High standards of sample administration and duty of care. With a wide range of industry standard approaches and procedures undertaken in house.

ALLIED EXPLORATION & GEOTECHNICS LIMITED

HEAD OFFICE

Unit 25, Stella Gill Industrial Estate
Pelton Fell, Chester-le-Street
County Durham, DH2 2RG.
Tel: 01913874700
Fax: 01913874710
Email: enquiries@alliedexploration.co.uk

REGIONAL OFFICE

Unit 20, Business Development Centre
Eanam Wharf, Blackburn
BB1 5BL.
Tel: 01772735300
Fax: 01772735999
Email: enquiries@alliedexploration.co.uk



No: OHS 599062



No: EMS 632523



No: FS 590911



No: 610



No: 86245



No: 1367