CERTIFICATION OF CALIBRATION

Date Of Calibration: 28-Jul-2016 **Certificate Number:** G503070_1/16842

UKAS CALIBRATION 4533

Geotech

ISSUED BY: GEOTECHNICAL INSTRUMENTS (UK) LTD

Customer: **Derwentside Environmental Testing Services Ltd**

Unit 2 Park Road Industrial Estate CONSETT
County Durham DH8 5PY UNITED KINGDOM

Description: Gas Analyser

Model: GA5000

Serial Number: G503070

UKAS Accredited results:

Results after adjustment :

Methane (CH_4)		
Certified Gas (%)	**Instrument Reading (%)**	**Uncertainty (%)**
5.1	5.0	0.41
15.0	15.0	0.64
50.0	49.4	0.94

Carbon Dioxide (CO_2)		
Certified Gas (%)	**Instrument Reading (%)**	**Uncertainty (%)**
5.1	4.9	0.43
15.1	14.9	0.70
50.0	50.1	1.1

Oxygen (O_2)		
Certified Gas (%)	**Instrument Reading (%)**	**Uncertainty (%)**
21.4	21.5	0.31

The inwards assessment was carried out 26-Jul-2016.
The maximum adjustment is larger than the inwards assessment uncertainty.
Inwards assessment data is available if requested.

All concentrations are molar.

CH_4, CO_2 readings recorded at : 33.6 °C ± 1.5 °C

O2 reading recorded at : 23.1 °C ± 1.5 °C

Barometric Pressure : 1007 mbar ± 3 mbar

Method of Test : The analyser is calibrated in a temperature controlled chamber using a series of reference gases, in compliance with procedure LP004.

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Geotechnical Instruments (UK) Ltd
Sovereign House, Queensway, Leamington Spa, Warwickshire, CV31 3JR
geotechuk.com service@geotech.co.uk +44 (0)1926 338111