

GE INVESTIGATE Ltd.

Northern Division

Head Office
Units 4 & 5
Terry Dicken Industrial Estate
Ellerbeck Way
Stokesley
North Yorkshire
TS9 7AE

Tel: (01642) 713779

Fax: (01642) 713923

Mobile: 07971 881847/881849

Email: geoinvestigate@qnetadsl.com Web: www.geoinvestigate.co.uk

Geoenvironmental and Geotechnical Engineers, Drilling and Site Investigation.

FACTUAL REPORT OF TRIAL PIT & BOREHOLE INVESTIGATION

AT 2 Lambert Fold, Dodworth, Barnsley
S75 3SX

ON 27 January & 16 February 2012

FOR B Maule & Co Ltd

YOUR REF. 2011~~9~~795- Ref: Jaques
8

OUR REF. G12005

GE INVESTIGATE Ltd.

Northern Division

Head Office
Units 4 & 5
Terry Dicken Industrial Estate
Ellerbeck Way
Stokesley
North Yorkshire
TS9 7AE

Tel: (01642) 713779 Fax: (01642) 713923 Mobile: 07971 881847/881849
Email: geoinvestigate@qnetadsl.com Web: www.geoinvestigate.co.uk

Geoenvironmental and Geotechnical Engineers, Drilling and Site Investigation.

Our Ref. **G12005** Your Ref. **20119795**

20 February 2012

Mr M Golding
B Maule & Co Ltd
Albion Chambers
Matthew Street
Dunstable
Bedfordshire
LU6 1SD

Dear Sirs

Re. 2 Lambert Fold, Dodworth, Barnsley S75 3SX

In accordance with your instruction of 3 January Geoinvestigate Ltd carried out a site investigation at the above property on 27 January and 16 February 2012.

A single trial pit (TP1) was hand excavated to a depth of 0.90m at the position shown on the attached plan. Continued excavation was attempted from the base of the trial pit by the sinking of a percussion window sampling borehole, however refusal was met at 0.90m. A control borehole (BH2) was sunk to a depth of 1.85m.

An additional trial pit (TP1A) was sunk to a depth of 1.30m followed by the sinking of an additional borehole (BH1A) to a depth of 2.10m.

Information on the foundation and ground conditions revealed by the investigation is presented on the trial pit diagram and borehole log which are included with this report. The results of hand vane shear strength tests which were carried out at selected depths are shown on the diagram and log also.

The results of Plastic Limit, Liquid Limit and moisture determinations are presented in Table 1.

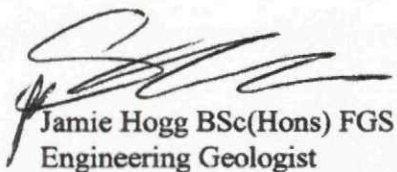
Oedometer Testing was carried out on selected samples from BH2. The results of this testing will be forwarded in due course.

Moisture and strength profiles are shown against depth on the graphs which accompany the log.

A report on the identification of roots recovered from a depth of 0.75m in TP/BH1 and 1.20m to 1.60m in TP/BH1A is attached.

We trust that you will find the results of this investigation satisfactory and we would be pleased to provide any further assistance you may require with this matter.

Yours faithfully



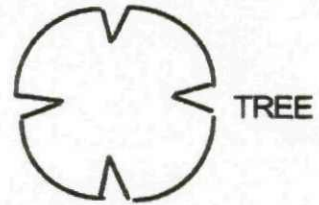
Jamie Hogg BSc(Hons) FGS
Engineering Geologist



Ross Nicolson BSc(Hons) MSc(Eng) CEng MIMM
Geotechnical Engineer

GEOINVESTIGATE Ltd.

OUR REF: G12005	YOUR REF: 20118795	SITE PLAN (NOT TO SCALE)
DATE: 27/01/12 & 16/02/12	LOCATION: 2 Lambert Fold, Dodworth, Barnsley S75 3SX	



REAR LAWN



TP/BH1A



PATH

LAWN

No 2

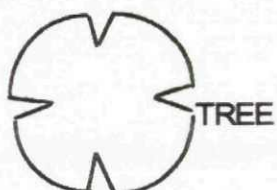


TP/BH1



TARMAC
DRIVE

FRONT LAWN



GEOINVESTIGATE Ltd.

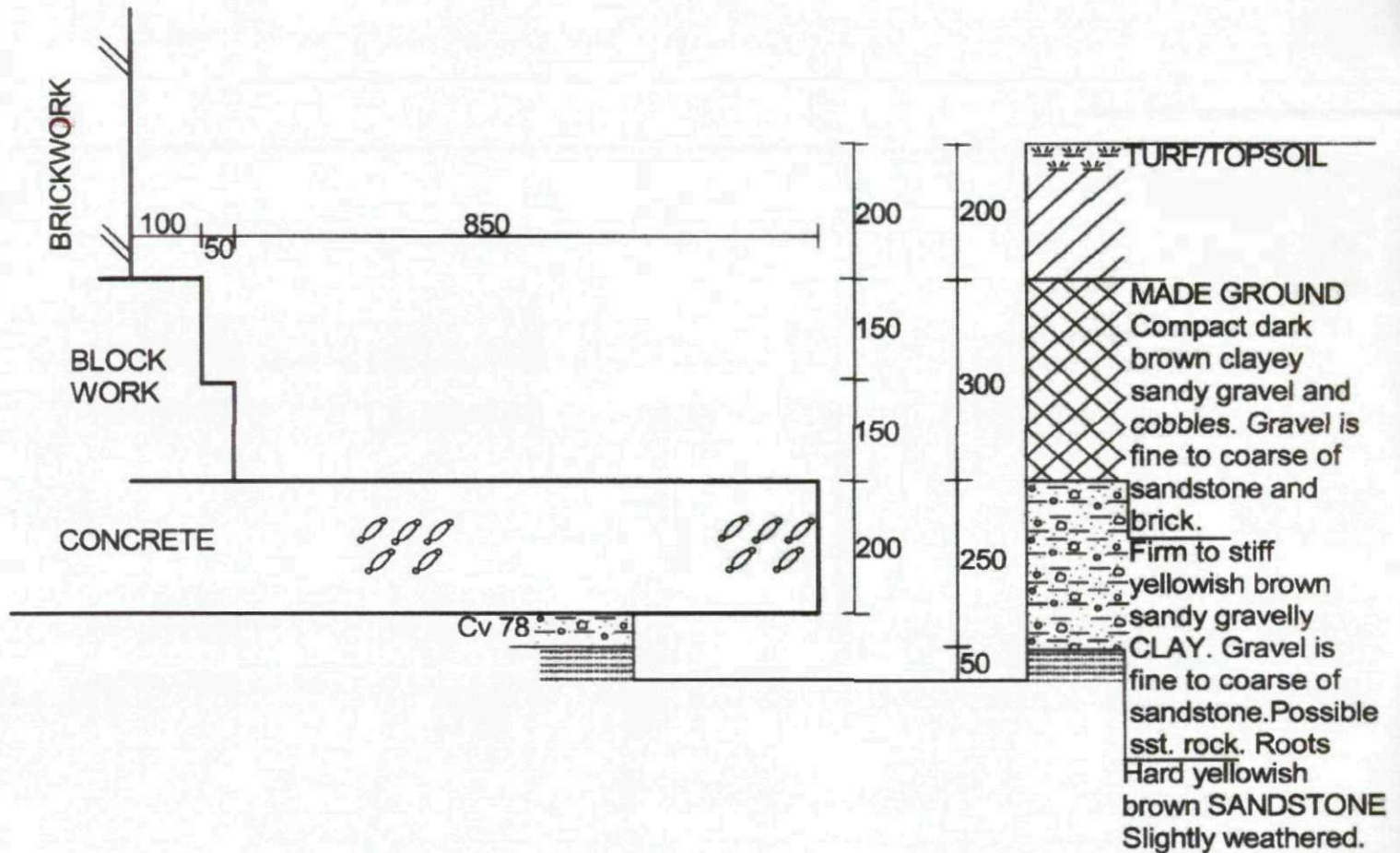
OUR REF: G12005

YOUR REF: 20118795

TRIAL PIT: 1

DATE: 27/01/12

LOCATION: 2 Lambert Fold, Dodworth, Barnsley S75 3SX

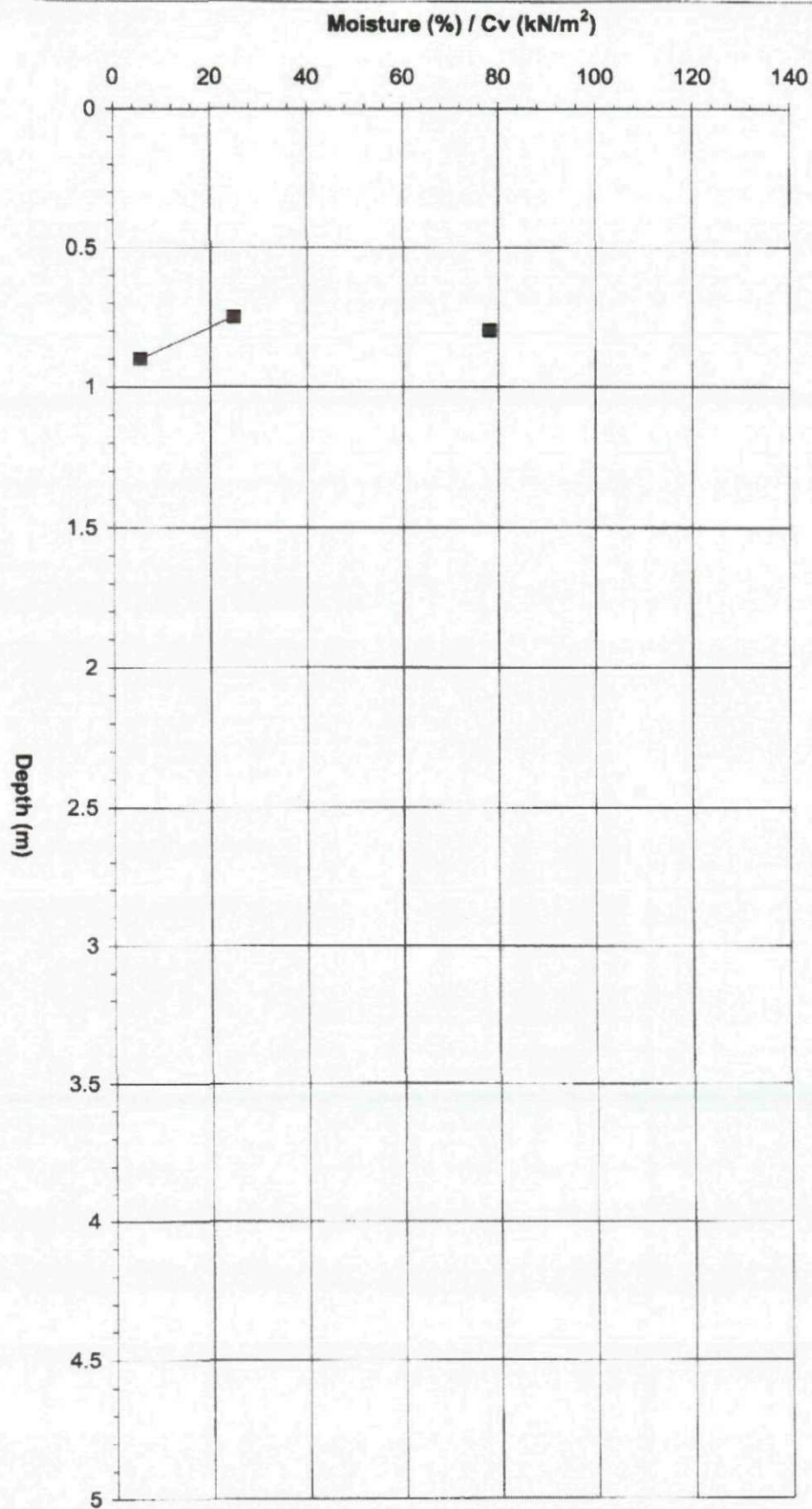


Samples taken at 0.75m and 0.90m

Trial Pit terminated at 0.90m due to refusal on rock.

Window sampling borehole refused at 0.90m in base of trial pit.

Trial Pit remained stable and dry on completion.



Moisture and shear strength depth profile BH 1
G12005

— MC BH 1 — Cv BH 1

GEOINVESTIGATE Ltd.

Your Ref. 20118795

Our Ref. G12005

BH No.2 Sheet No. 1 of 1

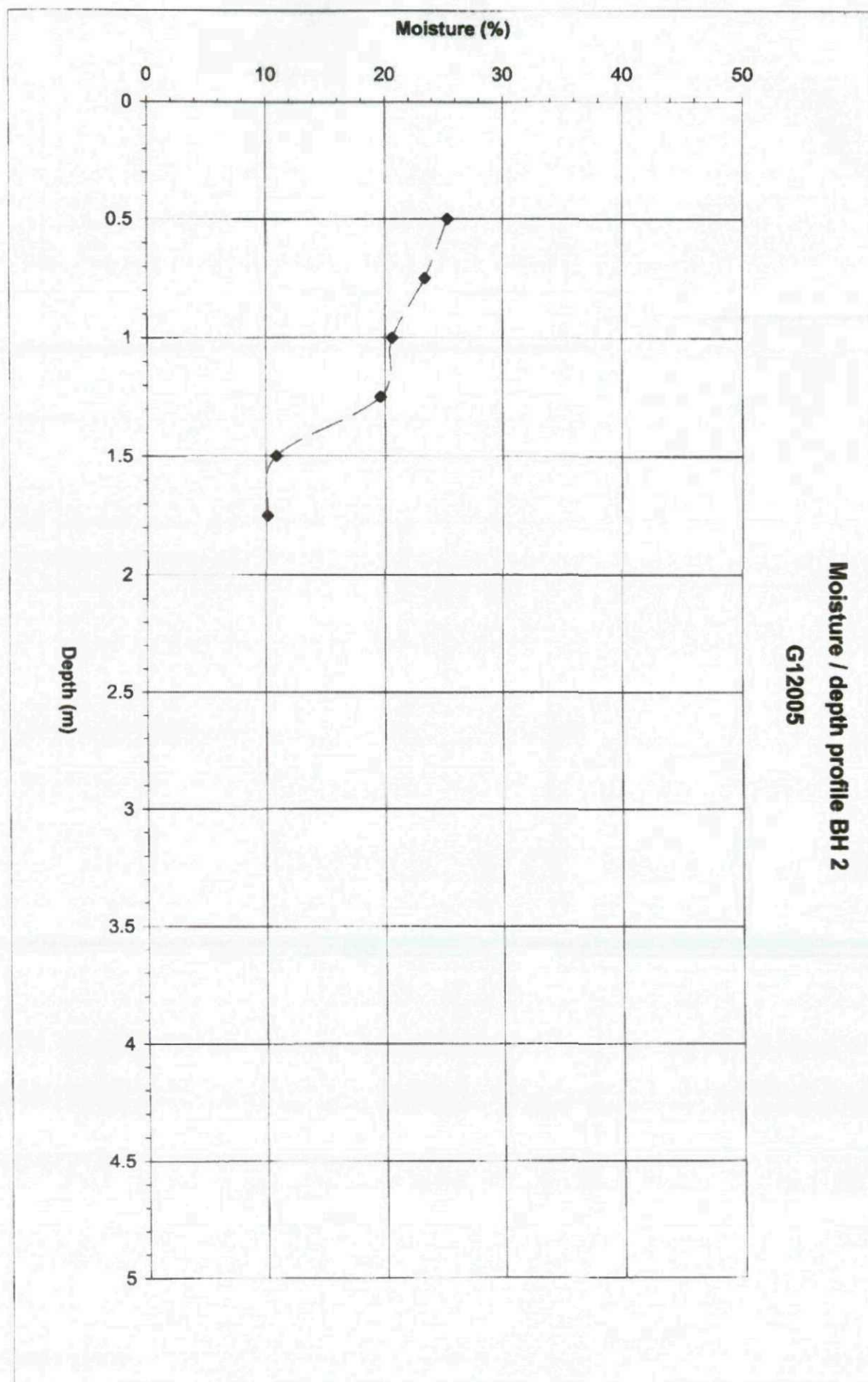
Location: 2 Lambert Fold, Dodworth, Barnsley S75 3SX

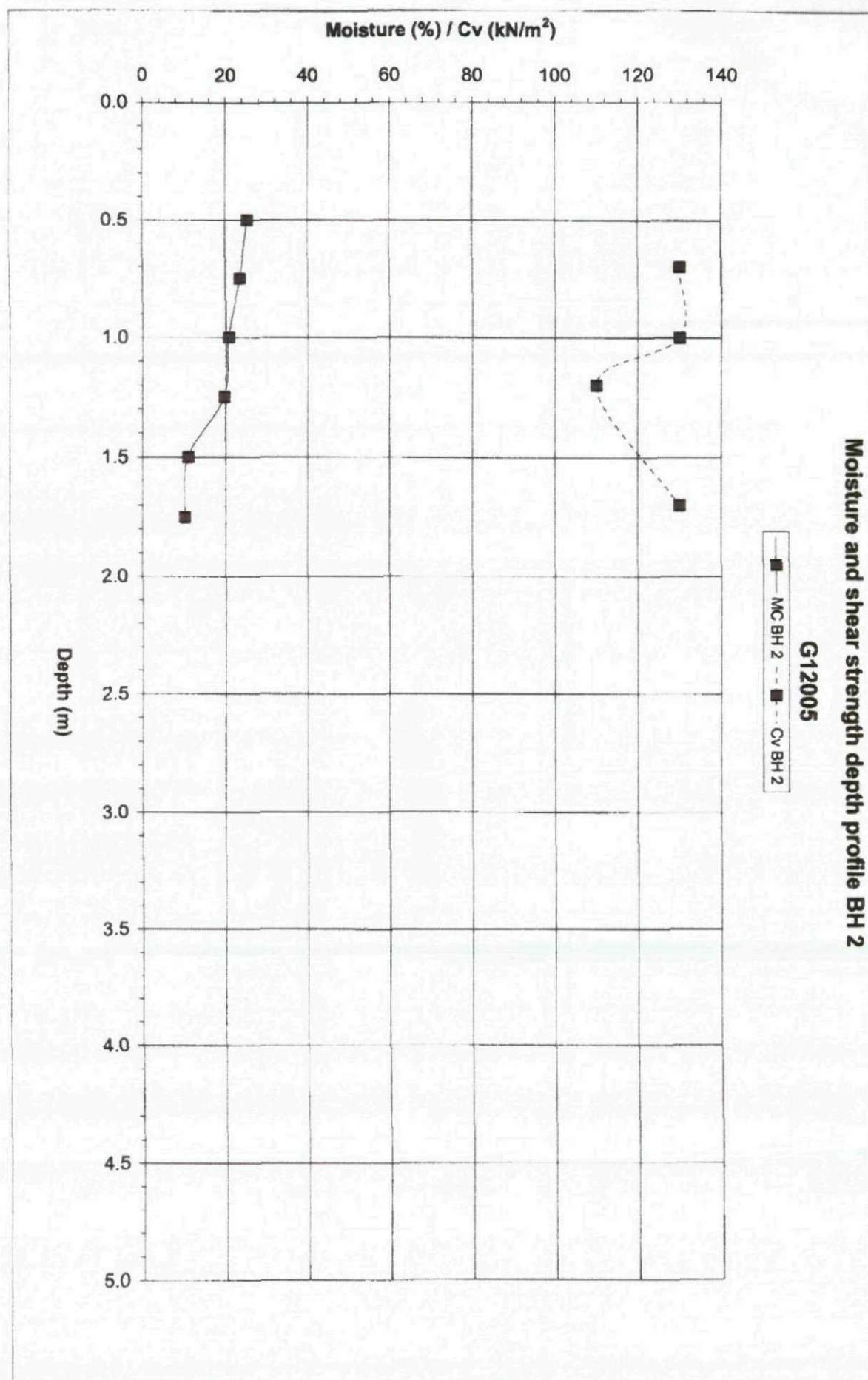
DATE: 27/01/12

Depth (m)	Description of Strata	Thickness	Legend	Sample	Test Type Result	Root Information	Depth to Water	Depth (m)
0.60	TURF / TOPSOIL Firm dark brown sandy clay.	600		O	Cv kN/m ²			0.25
				O				0.50
1.35	Stiff yellowish brown sandy CLAY	750		O	130			0.75
				O	130			1.00
				O	110			1.25
1.60	Hard yellowish brown weathered SANDSTONE	250		O				1.50
1.85	Hard yellowish brown and grey weathered MUDSTONE	250		O	130			1.75
								1.85
	Borehole Terminated at 1.85m due to refusal							

Remarks: Hand excavated to 0.70m
Percussion window sampling to 1.85m
Borehole remained open and dry on completion

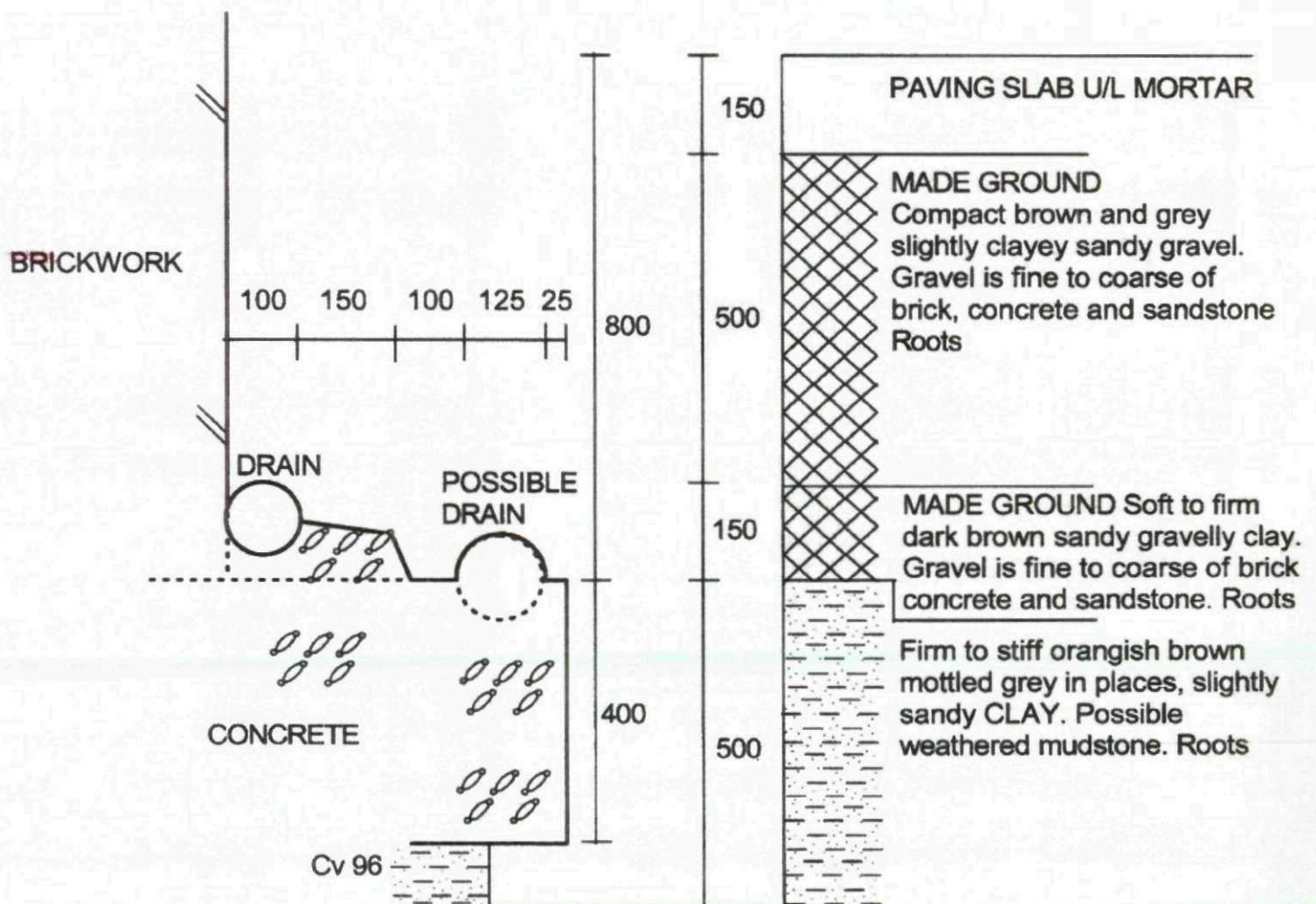
Key: O Disturbed sample
Cv Shear vane
W Water sample





GEOINVESTIGATE Ltd.

OUR REF: G12005	YOUR REF: 20118795	TRIAL PIT: 1A
DATE: 16/02/12	LOCATION: 2 Lambert Fold, Dodworth, Barnsley S75 3SX	



For strata below 1.30m see BH1 Log

Trial Pit remained stable and dry during excavation

GEOINVESTIGATE Ltd.

Your Ref. 20118795

Our Ref. G12005

BH No.1A Sheet No. 1 of 1

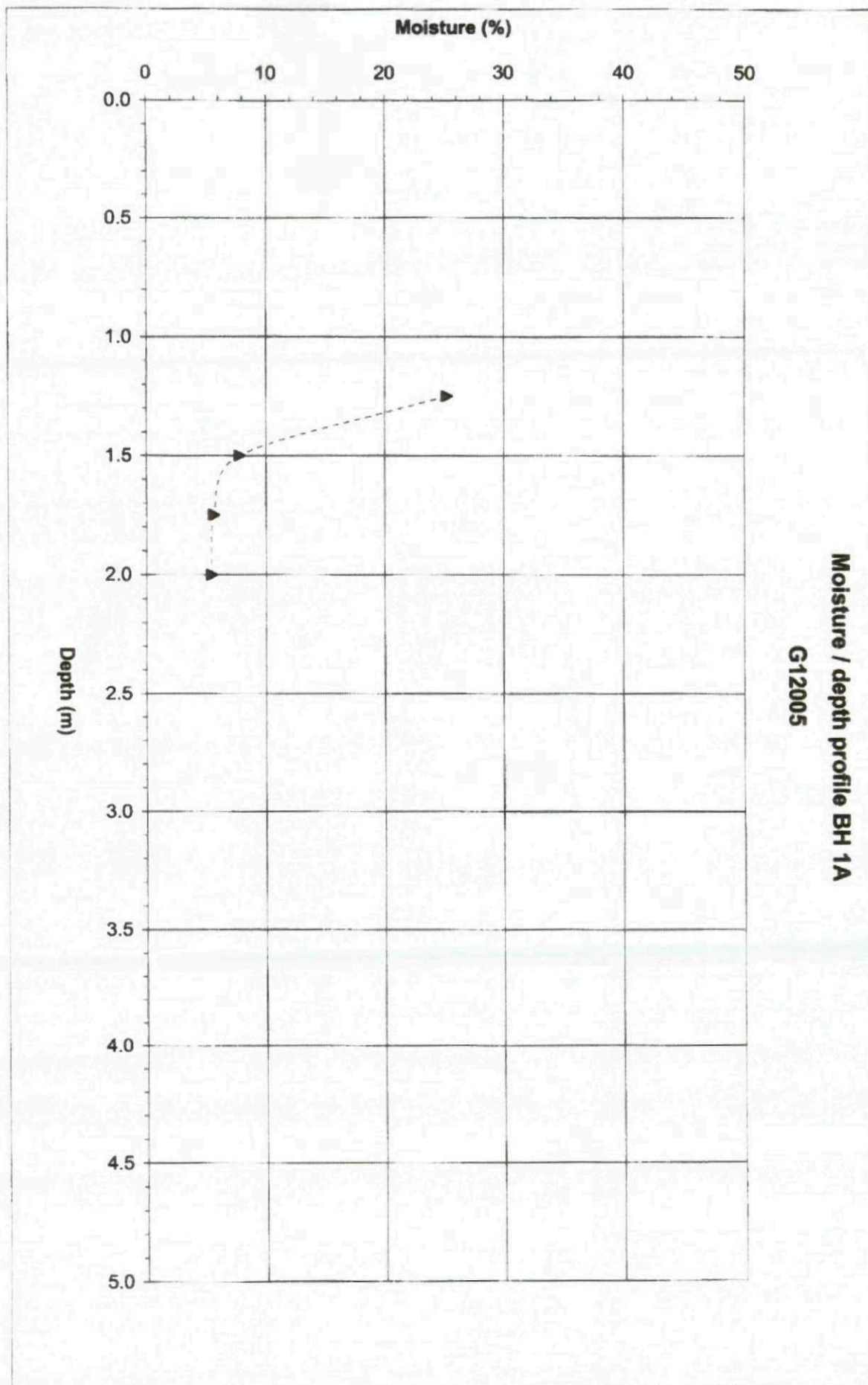
Location: 2 Lambert Fold, Dodworth, Barnsley S75 3SX

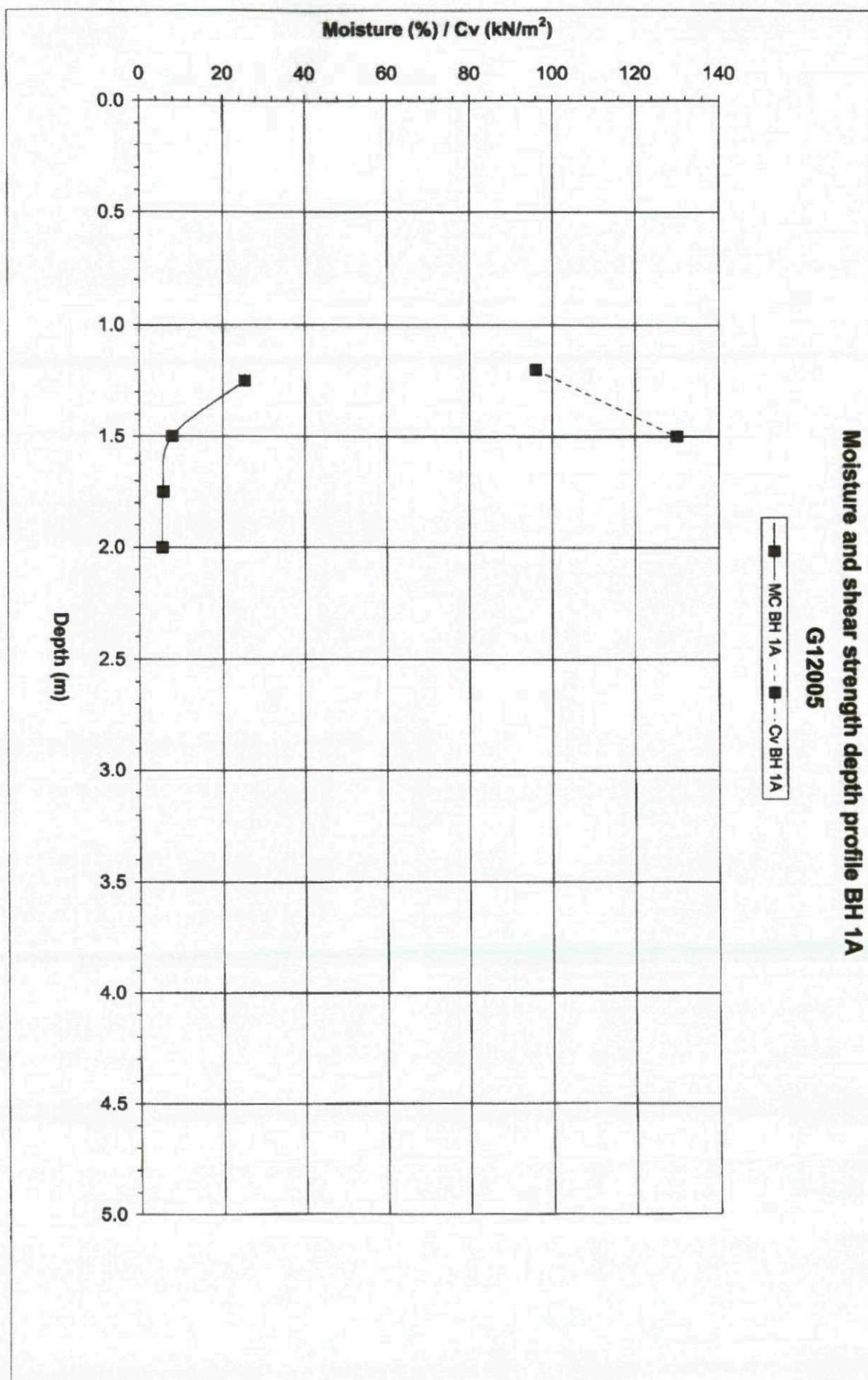
DATE: 27/01/20 & 16/02/12

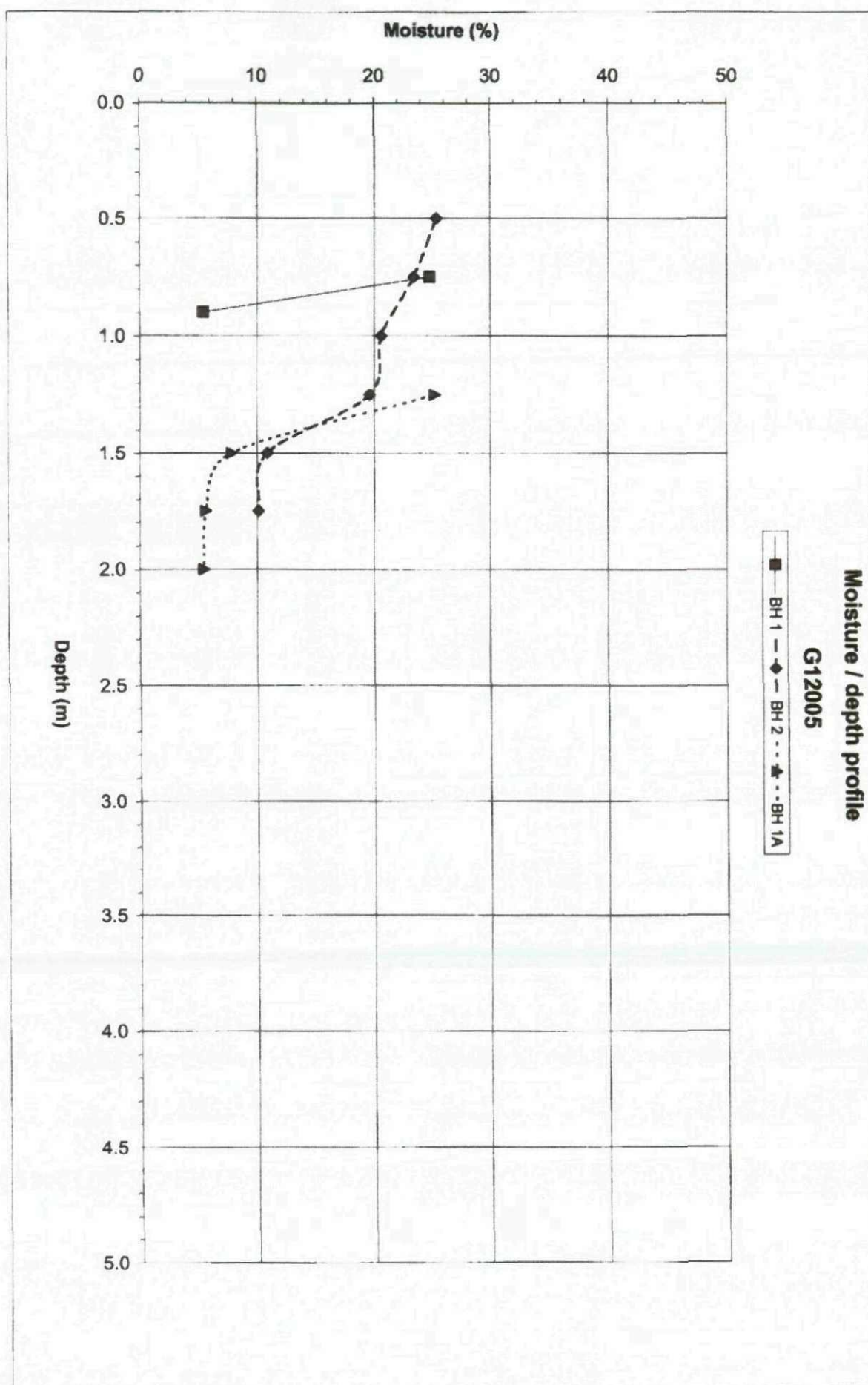
Depth (m)	Description of Strata	Thickness	Legend	Sample	Test Type Result	Root Information	Depth to Water	Depth (m)
	Trial Pit	1300			Cv kN/m ²			0.25
								0.50
								0.75
								1.00
	Base of foundation at 1.20m							1.25
1.30				O	96			
1.45	Firm to stiff orangish brown mottled grey slightly sandy CLAY. Possible weathered mudstone	150		O	130	Roots 1.20m to 1.60m		1.50
	Hard yellowish grey sandy SILTSTONE	250		O				1.75
1.70				O				
	Hard yellowish grey SANDSTONE	400		O				2.00
2.10				O				2.10
	Borehole terminated at 2.10m due to refusal							

Remarks: Hand excavated to 1.30m
Percussion window sampling to 2.10m
Borehole remained open and dry on completion

Key: O Disturbed sample
Cv Shear vane
W Water sample







GEOINVESTIGATE Ltd.

Atterberg Limit Test Results

Our ref. G12005
Your ref. 20118795

Table 1
Location: 2 Lambert Fold, Dodworth, Barnsley S75 3SX

TP / BH No.	Sample Depth (m)	Insitu Moisture Content (%)	% Passing BS 425 Micron Sieve	Corrected Moisture Content (%)	Plastic Limit (%)	Liquid Limit (%)	Plasticity Index (%)	Soil Classification BS5930 [1999]
1	0.75	24.7	58.6		23.3	37.3	14.0	CI
	0.90	5.4						
2	0.50	25.3						
	0.75	23.4	>95	23.4	24.8	47.0	22.2	CI
	1.00	20.6						
	1.25	19.6						
	1.50	10.9						
	1.75	10.1						
1A	1.25	25.2	86.0	29.3	21.7	53.0	31.3	CH
	1.50	7.8	57.7		18.1	27.3	9.2	CL
	1.75	5.6						
	2.00	5.4						