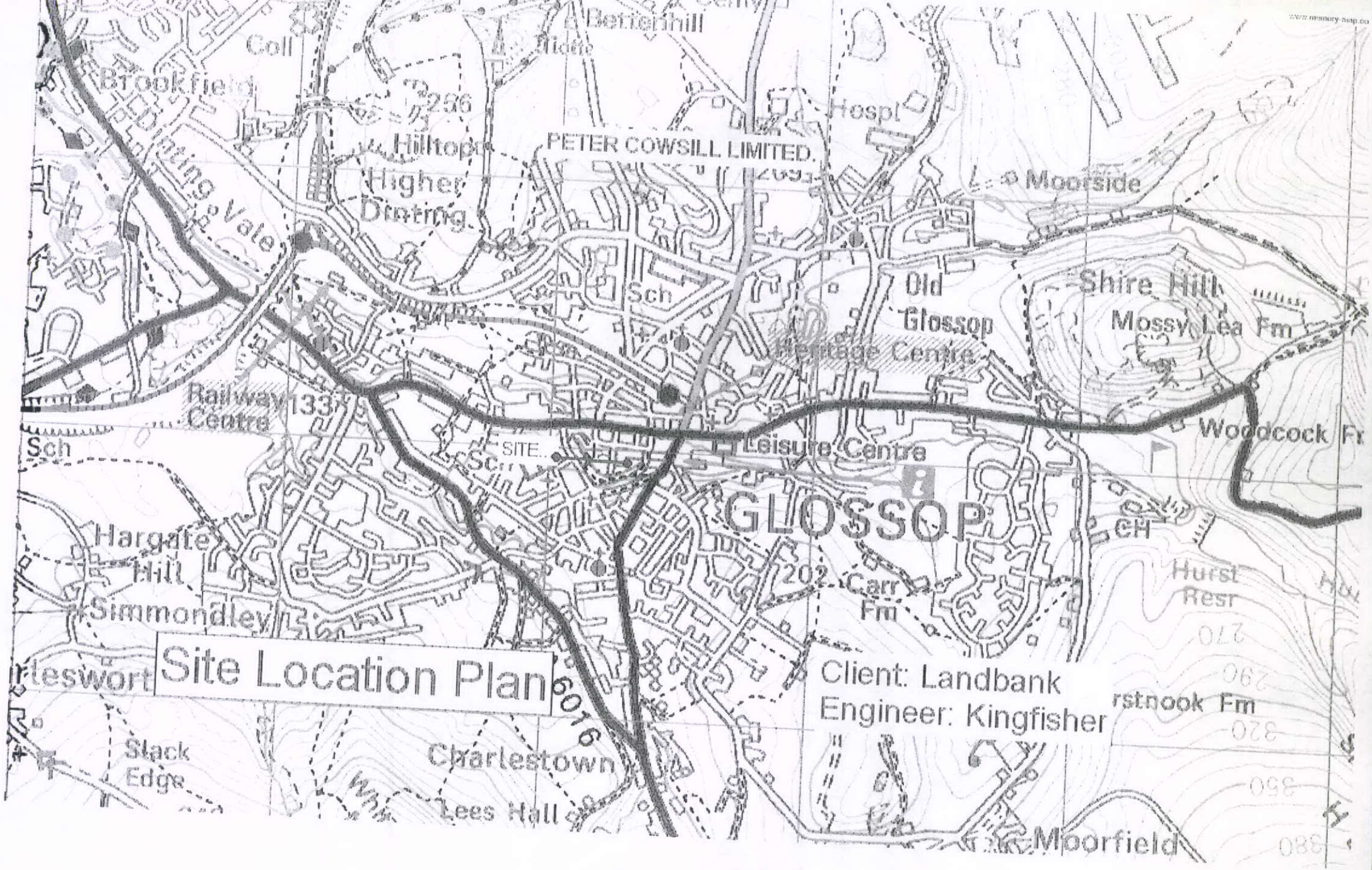
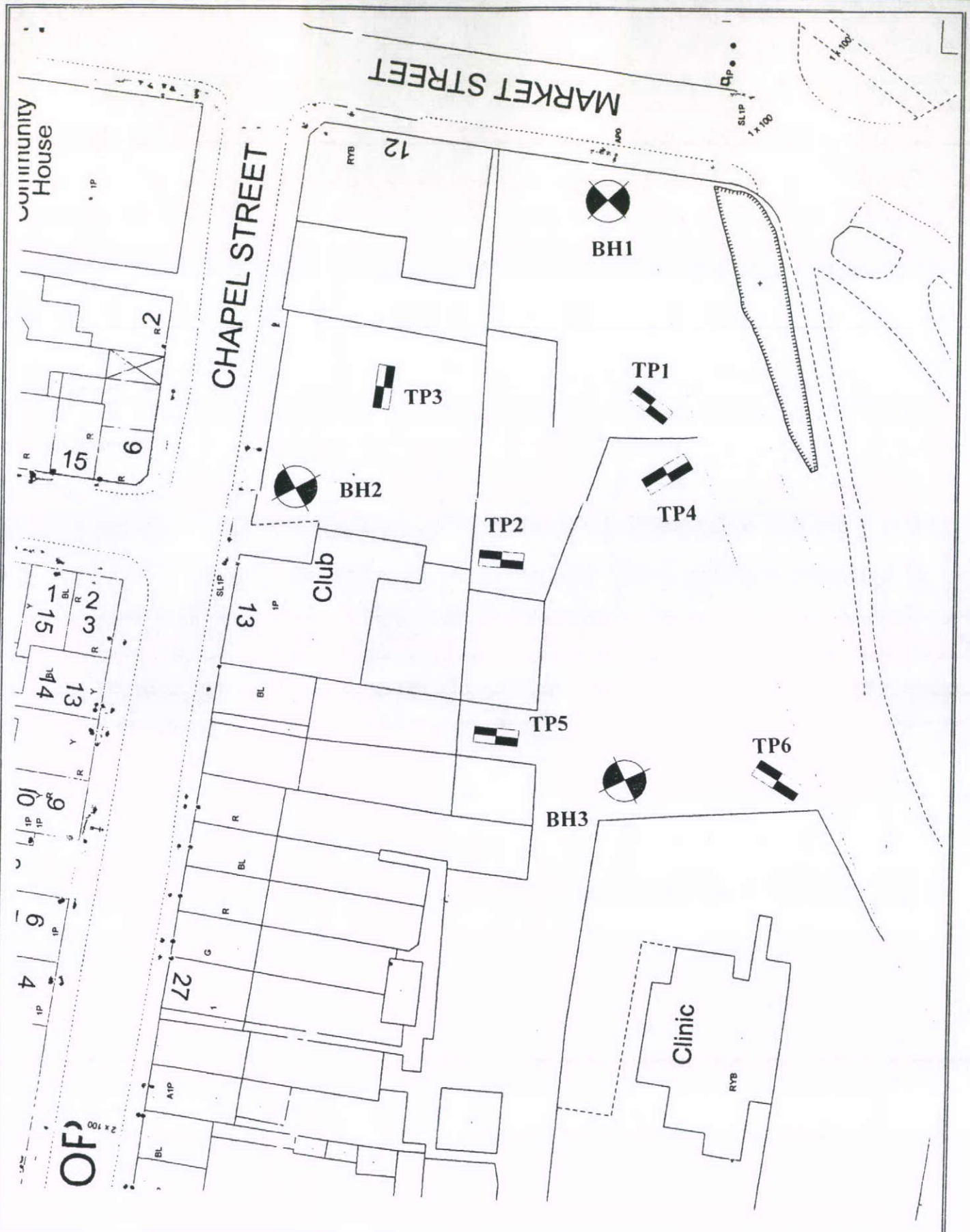
APPENDIX A

SITE LOCATION PLAN


PETER COWSILL LIMITED.
Site Location Plan
Client: Landbank
Engineer: Kingfisher
GLOSSOP
SITE
Hilltop
Higher Dinting
Dinting Vale
Old Glossop
Heritage Centre
Shire Hill
Mossy Lea Fm
Moorside
Railway Centre
Leisure Centre
Woodcock Fr
Hargate Hill
Simmondley
Slack Edge
Charlestown
Lees Hall
Moorfield
Carr Fm
Hurst Rest
Brookfield
Coll
Hospl
Sch
CH
256
133
202
6016

APPENDIX B

EXPLORATORY HOLE LOCATION PLAN



Date : January 2007	*Appendix :* **B**	*Scale:* NTS
Peter Cowsill Ltd *Consulting Engineering Geologists* *11 a Leygate View* *New Mills* *High Peak SK22 3EF* *01663 744580*	*Site :* Glossop Brook	*Title :* Exploratory Hole Positions

APPENDIX C

EXPLORATORY HOLE LOGS

PETER COWSILL LIMITED

Tel: 01663 744580 Fax: 01663 741309

Site	Borehole Number
GLOSSOP BROOK	BH1

Boring Method	Diameter	Ground Level(mOD)	Client	Job Number
Cable Percussion	150mm Cased to 7 30m		LANDBANK	061102
	Location	**Dates**	**Engineer**	**Sheet**
	Glossop	01/11/06 - 02/11/06	KINGFISHER	1/1

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr
						0 10	MADE GROUND - Weak, broken tarmac			
0 50	D						MADE GROUND - Firm dark grey brown and black, sandy gravelly friable clay. Gravel is sub angular to sub rounded, fine, medium and coarse			
1 00	D									
1 50-1 95 1 50-2 00 1 50-1 95	SPT N=24 B D	1 50	Dry	6,11/9,6,5,4			Slight oil/tar odour above 2 70m			
						(3 90)				
2 70	D									
3 00-3 45 3 00-3 50 3 00-3 45	SPT N=18 B D	2 80	Dry	2,2/4,5,5,4						
4 00	D					4 00				
						(0 30)	MADE GROUND - Cobbles/slabs of sandstone			
						4 30				
4 30	D						Stiff brown with blue grey staining, sandy CLAY			
4 50-4 95 4 50-5 00 4 50-4 95	SPT N=11 B D	4 50	Dry	2,1/2,2,3,4		(0 50)			▼1	
						4 80				
				01/11/06 Drym			Firm brown poorly laminated slightly sandy CLAY. A little blue grey staining in parts			
5 00-5 45	U	4 80	Dry	02/11/06 Drym 50 blows						
5 60	D									
						(2 10)				
6 00	D									
6 50-6 95 6 50-7 00 6 50-6 95	SPT N=36 B D	6 50	Dry	4,9/13,8,8,7						
						6 90				
7 00-7 30	B			Water strike(1) at 7 00m, rose to 4 70m in 20 mins		(0 40)	Very weak yellow brown, fine, medium and coarse grained SANDSTONE		▼1	
7 00 7 10-7 32	W CPT 50*/70	7 10	4 70	11,20/50 02/11/06 4 70m		7 30				
							Complete at 7 30m			

Remarks

Chiselling 7 00-7 30m, 1 00 hour

50mm monitoring pipe installed, gravel filter 7 30-0 90m, slotted section 7 10-1 10m, plain pipe 1 10-0 00m, bentonite seal 0 90-0 30m, concrete and flush cover 0 30-0 00m

Scale (approx)	Logged By
1:50	BRM

Figure No.

061102 BH1

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PETER COWSILL LIMITED

Tel: 01663 744580 Fax: 01663 741309

Site	Borehole Number
GLOSSOP BROOK	BH2

Boring Method	Diameter	Ground Level(mOD)	Client	Job Number
Cable Percussion	150mm Cased to 7 70m		LANDBANK	061102
	Location	**Dates**	**Engineer**	**Sheet**
	Glossop	06/11/06 - 06/11/06	KINGFISHER	1/1

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
						0 10	MADE GROUND - Sandy fine to coarse gravel of limestone		
						(0 60)	MADE GROUND - Dark grey brown very sandy fine to coarse gravel with some brick fragments		
0 50	D								
						0 70	MADE GROUND - Grey and orange brown very sandy fine, medium and coarse gravel of sandstone		
1 00	D					(0 80)			
1 20-1 65	SPT N=52	1 10	Dry	9,14/14,13,13,12					
1 20-1 70	B					1 50	Very dense clayey sandy fine, medium and coarse GRAVEL Gravel is sub angular to sub rounded, fine, medium and coarse		
1 20-1 65	D								
						(1 70)			
2 50-2 95	CPT N=63	2 30	Dry	8,15/18,19,12,14					
2 50-3 00	B								
2 50-2 95	D								
3 20	D					3 20	Firm dark brown sandy gravelly CLAY		
3 50-3 95	U	3 30	Dry	100 blows					
4 10	D						At 4 10m, some layers of brown very silty fine sand		
4 50-4 95	U/F	4 20	Dry	100 blows					
5 00-5 45	SPT N=22	4 20	Dry	5,5/6,5,5,6					
5 00-5 45	D					(3 90)	Below 5 00m, becoming stiff		
6 00-6 45	SPT N=22	6 00	Dry	3,4/5,5,6,6					▼1
6 00-6 50	B								
6 80	D								▽1
7 00	W			Water strike(1) at 7 00m, rose to 6 20m in 20 mins		7 10	Weak and moderately weak light yellow brown coarse grained SANDSTONE/GRITSTONE		
7 20-7 51	CPT 62*/160	7 20	6 20	11,14/18,29,15					
7 20-7 50	B					(0 70)			
7 20-7 50	D								
7 70	CPT 70*/140 0*/0	7 70	6 20	20,50/ 06/11/06 6 20m		7 80			
7 80	D						Complete at 7 80m		

Remarks
Chiselling 7 30-7 80m, 1 00 hour
Borehole backfilled with arisings on completion

Scale (approx)	Logged By
1 50	BRM

Figure No.
061102 BH2

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PETER COWSILL LIMITED

Tel: 01663 744580 Fax: 01663 741309

Site GLOSSOP BROOK			**Borehole Number** BH3
Boring Method Cable Percussion	**Diameter** 150mm Cased to 6 80m	**Ground Level(mOD)**	**Client** LANDBANK	**Job Number** 061102
	Location Glossop	**Dates** 02/11/06 03/11/06	**Engineer** KINGFISHER	**Sheet** 1/1

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr
						(0 30) 0 30	Grass covered dark brown peaty TOPSOIL with root fibres			
0 50	D					(0 60) 0 90	MADE GROUND - Dark grey brown and black sandy fine, medium and coarse gravel mainly of ash, clinker, brick and concrete			
1 00	D						MADE GROUND - Medium dense orange brown fine, medium and coarse sand and gravel Gravel is sub angular			
1 50-1 95 1 50-2 00 1 50-1 95	SPT N=25 B D	1 30	Dry	3,9/9,5,6,5		(2 10)			▼1	
2 50	D									
3 00-3 45 3 00-3 50 3 00-3 45 3 00	SPT N=8 B D W	3 00	Dry	3,3/2,2,2,2 Water strike(1) at 3 00m, rose to 2 40m in 20 mins, sealed at 4 30m		3 00 (1 00)	Loose brown silty, gravelly fine, medium and coarse SAND		▽1	
4 00	D					4 00	Firm brown thinly laminated slightly sandy CLAY with lenses of grey and blue grey silt on laminae.			
4 50-4 95 4 50-5 00 4 50-4 95	SPT N=15 B D	4 30	3 50	2,2/3,3,4,5 02/11/06 Drym		(2 30)				
5 20-5 65	U	5 00	Dry	03/11/06 Drym 50 blows					▼2	
6 80	D									
6 00-6 45 6 00-6 50 6 00-6 45	SPT N=53 B D	6 00	Dry	3,5/7,11,15,20			Below 6 00m, becoming very stiff with some sub rounded fine to medium gravel			
7 70-7 01 7 70-7 00 7 70-7 00 7 70	CPT 48°/160 B D W	6 50	5 50	11,16/18,20,10 Water strike(2) at 6 70m, rose to 5 50m in 20 mins 03/11/06 5 50m		6 30 (0 70) 7 00	Weak yellow brown fine, medium and coarse grained SANDSTONE		▽2	
							Complete at 7 00m			

Remarks
Chiselling 6 50-7 00m, 1 00 hour
150mm monitoring pipe installed, bentonite seal 7 00-4 00m, gravel filter 4 00-0 50m, slotted pipe 3 80-0 60m, bentonite seal 0 50-0 30m, concrete and flush cover 0 30-0 00m

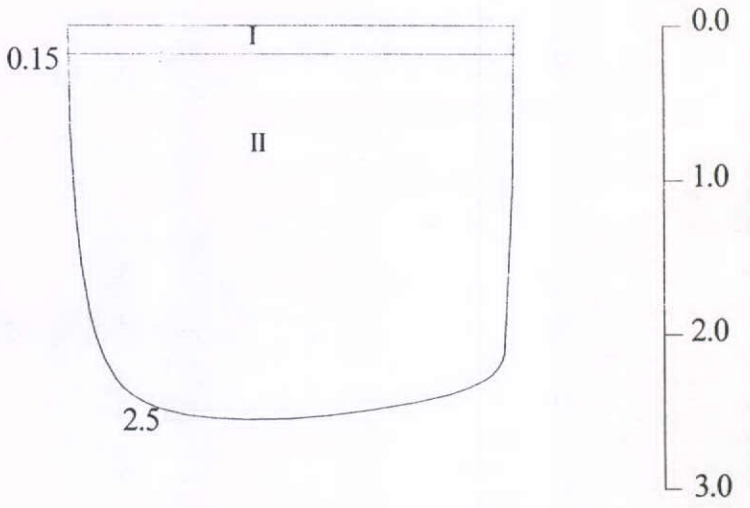
Scale (approx)	Logged By
1:50	BRM

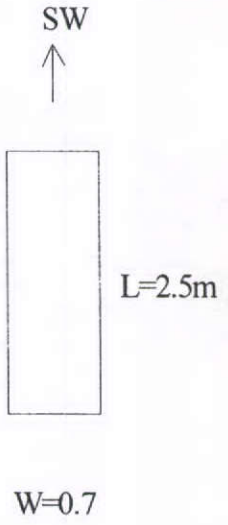
Figure No. 061102 BH3

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I MADE GROUND Dark grey gravel probably road planings or poor asphalt

II MADE GROUND grey and brown bricks, sandstone slab 0.8 x 0.4 x -0.5, concrete blocks grey clay mixed gravel angular and rounded, sheet of coarse fabric (roof lining) plastic paint pot, concrete paving slab, piece of 50mm plastic pipe concrete slab 0.13 x 100 x 0.8m. Stainless steel wrapping band, timber piece at 1.8m steel plate at 2.2m.



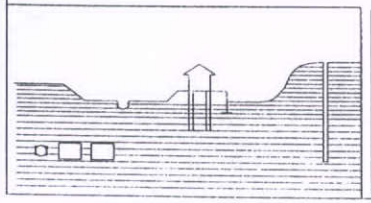


Samples

Type	Depth
Jar + Pot	0.0-0.15
Jar + Pot	0.15-0.6

No discrete samples >0.8m due to spalling

Weather:Overcast drizzle
Stability:Spalling below 0.8m
Services: None
Water: None



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Engineer:	Kingfisher Consulting	**TP1**
Client	Landbank	*Drawn by* PAC
Contract	Glossop Brook	*Date* 8th November 2006

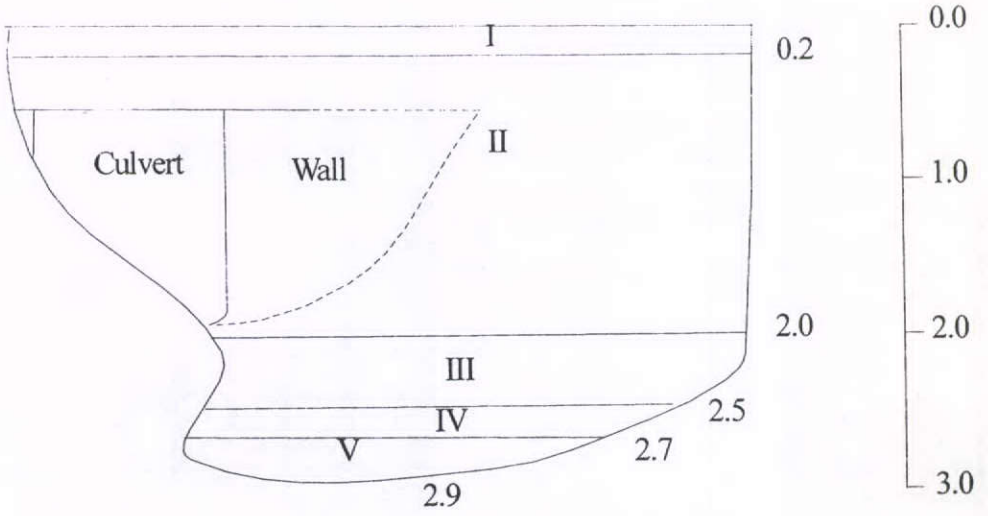
I MADE GROUND topsoil and angular tabular sandstone blocks with some cobble size concrete

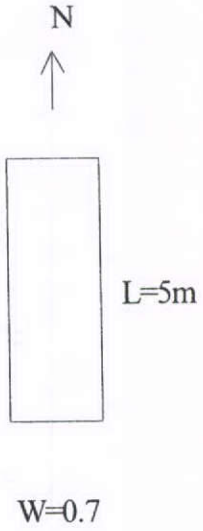
II MADE GROUND grey and brown clay with broken concrete flags bonded blocks of brickwork copper pipe corrugated iron sandstone blocks pieces of timber. On W side sandstone layed as wall, steel lintol to infilled culvert narrow void remaining below lintol.

III MADE GROUND orange brown and grey clayey gravel.

IV MADE GROUND dark grey black organic sand with crockery fragments and some gravel

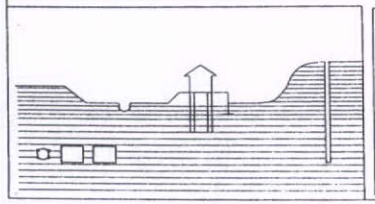
V Firm mid ghrey brown sandy CLAY





Samples	
Type	Depth
Jar + Pot	0.2-1.0
Jar + Pot	1.0-2.0

Weather:Overcast
Stability:Spalling throughout
Services: None
Water: Seepage 2.4m



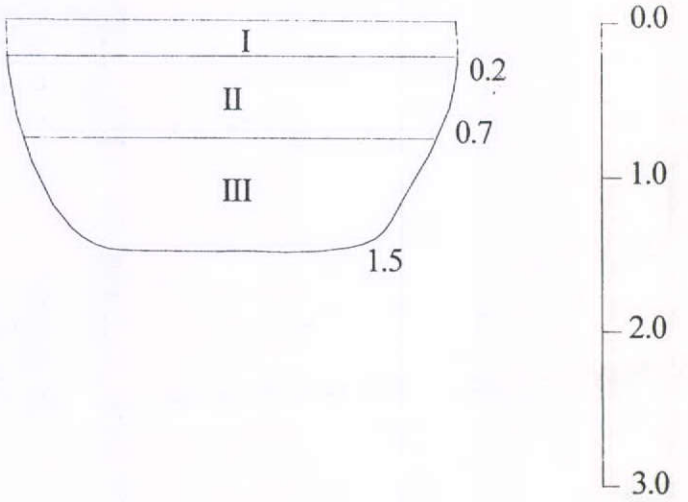
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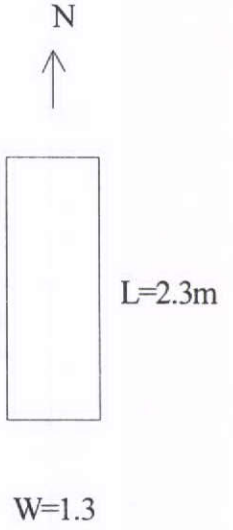
Engineer:	Kingfisher Consulting	**TP2**
Client	Landbank	*Drawn by* PAC
Contract	Glossop Brook	*Date* 8 November 2006

I MADE GROUND coarse gravel and cobbles of angular limestone with some limestone dust light grey becoming yellow and grey.

II MADE GROUND rubble of whole and broken bricks some bonded some with blue grey coating. Many sandstone cobbles and small boulders, lead pipe broken glazed pipes with a mortar and soil matrix.

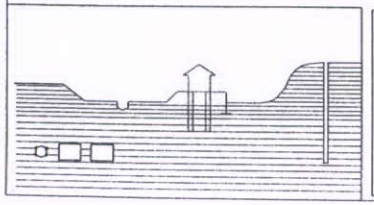
III Orange brown SAND clayey at top





Samples	
Type	Depth
Jar + Pot	0.2-0.5
Jar and pot	0.9-1.5

Weather:Overcast
Stability: Spalling > 0.8m
Water: None



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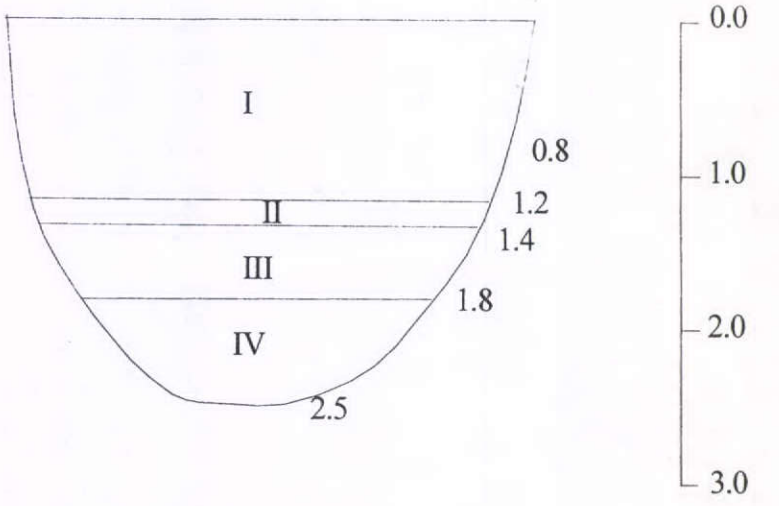
Engineer:	Kingfisher Consulting	**TP3**
Client	Landbank	*Drawn by* PAC
Contract	Glossop Brook	*Date* 8 November 2006

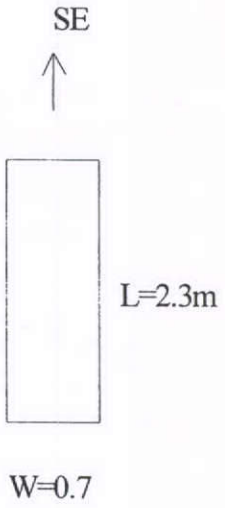
I MADE GROUND dark grey topsoil with many roots bricks and sandstone blocks piece of plastic sheeting and broken glass

II MADE GROUND purple grey organic sandy topsoil with roots and pottery fragments

III MADE GROUND layers of sandstone blocks up to 120mm thick ceramic pipe fragments sandstone boulder 1.0 x 0.4 x 0.5m

IV Rounded coarse GRAVEL and COBBLES with coarse light brown sand matrix and some rounded sandstone boulders

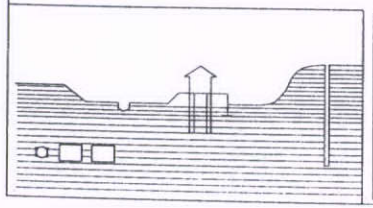




Samples

Type	Depth
Jar + Pot	0.0-1.2

Weather:Overcast
Stability: Spalling throughout
Water: Wet in IV none standing

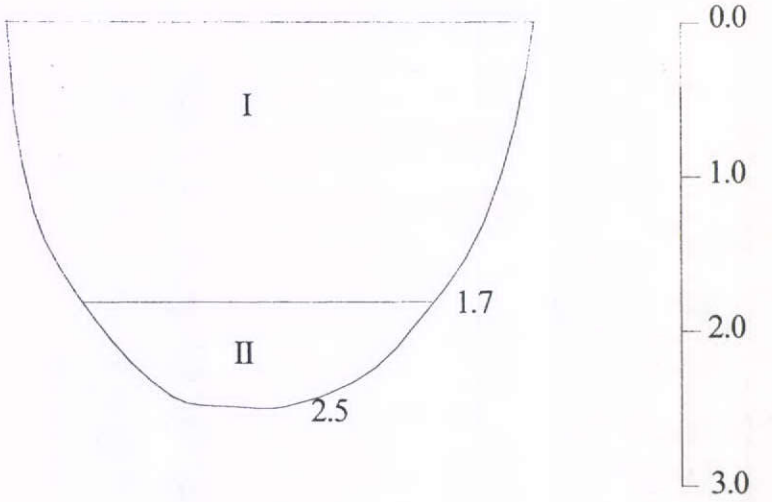


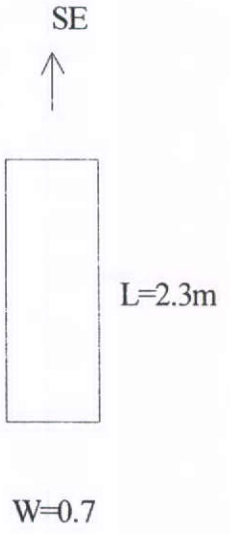
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Tel:01663 744580 Fax:01663 741309

Engineer:	Kingfisher Consulting	**TP4**
Client	Landbank	*Drawn by* PAC
Contract	Glossop Brook	*Date* 8 November 2006

I MADE GROUND dark grey topsoil with occasional sandstone boulders with pieces of plastic coated wire a few bricks small boulder size concrete block many roots and a tree branch.

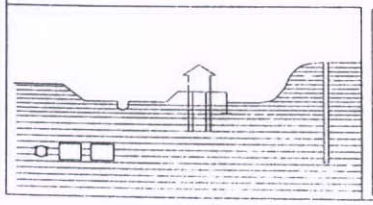
II Light brown cobbles and coarse rounded GRAVEL mainly of sandstone with some coarse sand.





Samples	
Type	Depth
Jar + Pot	0.0-1.7
Jar + Pot	1.7-2.5

Weather:Raining
Stability: Spalling throughout
Water:

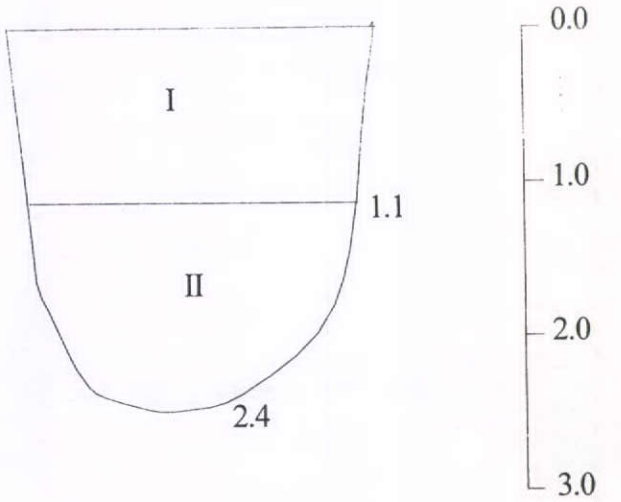


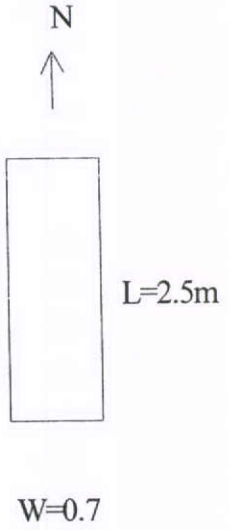
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High Peak SK22 3EF
Tel:01663 744580 Fax:01663 741309

Engineer:	Kingfisher Consulting	**TP5**
Client	Landbank	*Drawn by* PAC
Contract	Glossop Brook	*Date* 8 November 2006

I MADE GROUND dark grey topsoil with copper pipe lead pipe bricks sandstone blocks up to 0.5m pottery plastic, aerosol can, sheet of metal, spoon, glass, p[aintbrush lead flashing.

II MADE GROUND light brown coarse sand and medium gravel with occasinal rounded mainly sandstone cobbles with metal fragment, roots pottery less anthropogenic material with depth, natural by 2.4m.

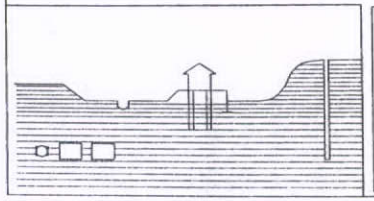




Samples

Type	Depth
Jar + Pot	0.0=-1.1

Weather:Raining
Stability: Spalling throughout
Water: None



Peter Cowsill Ltd.
Consulting Engineering Geologists
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High Peak SK22 3EF
Tel:01663 744580 Fax:01663 741309

Engineer:	Kingfisher Consulting	**TP6**
Client	Landbank	*Drawn by* PAC
Contract	Glossop Brook	*Date* 8 November 2006