

METCALFE BROS

LIGHT PERCUSSION DRY DRILLING SPECIALISTS

BOREHOLE RECORD

Unit 22
Dockray Ind. Est.
Burnside Road
Kendal
Cumbria LA9 4RU
Tel: (0539) 740844

SHEET 1 of 3

Type of Rig Used S & A

Date 2/5/90

Client STEETLEY

Borehole No. WM. 1

Contract WATER MONITORING WASING ESTATE Diameter 8"

Total Depth 6.00

Description	Depth	Thickness	Samples
Top soil	0.40	40cm	
Chalky silt	0.70	30cm	
Brown clayey silt	1.00	30cm	
Soft peat	2.20	1.20	H1.00-2.20 5
Very silty grey sand and gravel	3.00	80cm	
Light grey medium to coarse sand and gravel	5.40	2.40	B2.20-4.20 6 B4.20-5.40 7
Grey stiff clay	6.00	60cm	

PIPE DRAWING SHEET 2

PERM TEST SHEET 3

2.2
0.8 silty S+G
2.4 S+G

Water observations

First water at 2.40. Rise to 1.23 in 1 min
Stand for 15 mins. Water rise to 1.20
Casing at 2.20. Hole at 2.30

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SHEET 1 OF 2

Type of Rig Used S & A

Date 3/5/90

Client STEETLEY

Borehole No. WM. 2

Contract WATER MONITORING WASING ESTATE Diameter 8"

Total Depth 5.60

Description	Depth	Thickness	Samples
Top soil	0.40	40cm	
Firm chalky silt	1.20	80cm	
Greyish/brown firm clayey silt	1.80	60cm	B1.80-3.80 8
Brown silty sand and gravel turning cleaner with depth with occasional large flints	4.60	2.80	B3.80-4.60 9
Grey stiff clay	5.60	1.00	H4.60-5.60 10

DRAWING SHEET 2

NO PERM. TEST

NOT POSSIBLE TO LOWER WATER TABLE

1.8
2.8 silty S+G

Water observations
First water at 1.80
No Rise
Stand 15 mins.

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BOREHOLE RECORD

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Burneside Road
Kendal
Cumbria LA9 4RU
Tel: (0539) 740844

SHEET 1 OF 3 SHEETS

Type of Rig Used S & A

Date 1/5/90

Client STEETLEY

Borehole No. WM. 3

Contract WATER MONITORING WASING ESTATE Diameter 8"

Total Depth 4.50

Description	Depth	Thickness	Samples
Top soil	0.50	50cm	
Stony rusty brown and brown mottled firm silty clay	0.70	20cm	
Gravel bound in brown clay	0.80	10cm	
Brown and rusty/brown silty sand and gravel	1.70	90cm	B0.80-1.70 1
Brown silty sand and gravel	3.40	1.70	B1.70-3.40 2
Brown stiff clay	3.70	30cm	H3.40-3.70 3
Grey stiff clay	4.50	80cm	H3.70-4.50 4
PIPE DRAWING SHEET 2			
PERM. TEST SHEET 3			
	0.8		
	2.6 silty S+L		
Water observations			
Damp at 1.50. First water at 1.72			
Casing at 1.65 Hole at 1.75. Stand for 15 mins			
Rise to 1.63			

date m t w f s su 6 12 01 site WOOLHAMPTON. job no. 5674 borehole wm6

from	to	consistency or density/colour/type
GL	1.3	VERY SOFT DARK BROWN PEATY SILTY SOIL.
1.3	1.6	SOFT GREY MOTTLED SANDY SILT.
1.6	6.5	GREY GRAVEL FLINTS AND SAND.
6.5	7.0	GREY MOTTLED SANDY CLAY.
DUMPER SUNK IN VERY SOFT GROUND, HAD TO DIE AND WHINCK DUMPER AND RIE OUT OF WOODS.		

disturbed samples			undisturbed samples				penetration tests										
no.	depth	no.	depth	no.	depth	casing depth	length	blows	type/no	depth	casing depth	water level	150 seating	75	75	75	75
D 1		D 16		U 1					S/C 1								
D 2		D 17		U 2					S/C 2								
D 3		D 18		U 3					S/C 3								
D 4		D 19		U 4					S/C 4								
D 5		D 20		U 5					S/C 5								
D 6		D 21		U 6					S/C 6								
D 7		D 22		U 7					S/C 7								
D 8		D 23		U 8					S/C 8								
D 9		D 24		U 9					S/C 9								
D 10		D 25		U 10					S/C 10								
D 11		D 26		U 11					S/C 11								
D 12		D 27		U 12					S/C 12								
D 13		D 28		U 13					S/C 13								
D 14		D 29		U 14					S/C 14								
D 15		D 30		U 15					S/C 15								

bulk samples					
no.	from	to	no.	from	to
B 1	2.0	2.5	B 11		
B 2	3.5	4.0	B 12		
B 3	5.0	5.5	B 13		
B 4			B 14		
B 5			B 15		
B 6			B 16		
B 7			B 17		
B 8			B 18		
B 9			B 19		
B 10			B 20		

ground water			
depth struck	1.6		
casing depth	NO.		
inflow rate	FAST		
rose to 5 min.			
rose to 10 min.			
rose to 15 min.			
sealed out at			
sample no.	W	W	W
sample depth			
water level at start of boring			DRT
water level at finish of boring			DRT
water level when casing removed			S PIPE

water added			
from			
to			
litres			

chisel or pits			
depth	from		
	to		
time	from		
	to		
	hours		

remarks 2 3/4 HOURS DAYWORK driller GETTING OUT OF WOODS R W

borehole complete?	Yes	<input checked="" type="checkbox"/>
depth of borehole cased	6.8	
standpipe depth	6.5	
piezotip	gastap	<input checked="" type="checkbox"/>

t w th f s su 3 12 01

WOOL HAMPTON.

job no. 5674

reference Wm7

from	to	consistency or density/colour/type
GL	1.8	DARK BROWN PEATY SOIL.
1.8	2.9	SOFT GREY MOTTLED SILT.
2.9	7.0	GREY GRAVEL FLINTS AND SAND.
7.0		CLAY ?

disturbed samples			undisturbed samples				penetration tests										
no.	depth	no.	depth	no.	depth	casing depth	length	blows	type/no	depth	casing depth	water level	150 seating	75	75	75	75
D 1		D 16		U 1					S/C 1								
D 2		D 17		U 2					S/C 2								
D 3		D 18		U 3					S/C 3								
D 4		D 19		U 4					S/C 4								
D 5		D 20		U 5					S/C 5								
D 6		D 21		U 6					S/C 6								
D 7		D 22		U 7					S/C 7								
D 8		D 23		U 8					S/C 8								
D 9		D 24		U 9					S/C 9								
D 10		D 25		U 10					S/C 10								
D 11		D 26		U 11					S/C 11								
D 12		D 27		U 12					S/C 12								
D 13		D 28		U 13					S/C 13								
D 14		D 29		U 14					S/C 14								
D 15		D 30		U 15					S/C 15								

bulk samples					
no.	from	to	no.	from	to
B 1	3.0	3.5	B 11		
B 2	4.5	5.0	B 12		
B 3	6.0	6.5	B 13		
B 4			B 14		
B 5			B 15		
B 6			B 16		
B 7			B 17		
B 8			B 18		
B 9			B 19		
B 10			B 20		

ground water			
depth struck			
casing depth			
inflow rate			
rose to 5 min.			
rose to 10 min.			
rose to 15 min.			
sealed out at			
sample no.	W	W	W
sample depth			
water level at start of boring			D 27
water level at finish of boring			1.1
water level when casing removed			SPICE

water added			
from			
to			
litres			

chisel or pits			
depth	from		
	to		
time	from		
	to		
hours			

remarks
SHOE PULLED OFF
BAILER.

driller
R W J

borehole complete?	Yes	<input checked="" type="checkbox"/>
depth of borehole cased	7.0	
standpipe depth	7.0	
piezotip	-	gastap - <input checked="" type="checkbox"/>

date

m	t	th	f	s	su	5	12	01
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 site WOOLHAMPTON job no. 5674 borehole Wm8

from	to	consistency or density/colour/type
GL	0.7	DARK BROWN MOTTLED PEATY SOIL
0.7	1.9	LIGHT GREY MOTTLED SANDS SILT.
1.9	5.0	BROWN MOTTLED GRAVEL FLINTS AND SAND.
5.0	6.0	DIFF GREY MOTTLED SANDY CLAY.

disturbed samples			undisturbed samples				penetration tests										
no.	depth	no.	depth	no.	depth	casing depth	length	blows	type/no	depth	casing depth	water level	150 seating	75	75	75	75
D 1		D 16		U 1					S/C 1								
D 2		D 17		U 2					S/C 2								
D 3		D 18		U 3					S/C 3								
D 4		D 19		U 4					S/C 4								
D 5		D 20		U 5					S/C 5								
D 6		D 21		U 6					S/C 6								
D 7		D 22		U 7					S/C 7								
D 8		D 23		U 8					S/C 8								
D 9		D 24		U 9					S/C 9								
D 10		D 25		U 10					S/C 10								
D 11		D 26		U 11					S/C 11								
D 12		D 27		U 12					S/C 12								
D 13		D 28		U 13					S/C 13								
D 14		D 29		U 14					S/C 14								
D 15		D 30		U 15					S/C 15								

bulk samples					
no.	from	to	no.	from	to
B 1	2.0	2.5	B 11		
B 2	3.5	4.0	B 12		
B 3			B 13		
B 4			B 14		
B 5			B 15		
B 6			B 16		
B 7			B 17		
B 8			B 18		
B 9			B 19		
B 10			B 20		

ground water			
depth struck	1.9		
casing depth	1.5		
inflow rate	FAST		
rose to 5 min.			
rose to 10 min.			
rose to 15 min.			
sealed out at			
sample no.	W	W	W
sample depth			
water level at start of boring			DET
water level at finish of boring			DET
water level when casing removed			S PIPE

water added			
from			
to			
litres			

chisel or pits			
depth	from		
	to		
time	from		
	to		
hours			

remarks

driller

R W

borehole complete?	Yes <input checked="" type="checkbox"/>
depth of borehole cased	5.0
standpipe depth	5.0
piezotip	- gastap - cover

date m t w th f s su 5 12 01 site WOOLHAMPTON job no. 5674 borehole wm9

from	to	consistency or density/colour/type
GL	1.2	DARK BROWN MOTTLED SILTY PEATY SOIL.
1.2	1.8	SOFT GREY MOTTLED SILT.
1.8	6.05	GREY MOTTLED GRAVEL FLINTS AND SAND.
6.05	7.0	STIFF GREY MOTTLED SANDY CLAY.

disturbed samples			undisturbed samples				penetration tests										
no.	depth	no.	depth	no.	depth	casing depth	length	blows	type/no	depth	casing depth	water level	150 seating	75	75	75	75
D 1		D 16		U 1					S/C 1								
D 2		D 17		U 2					S/C 2								
D 3		D 18		U 3					S/C 3								
D 4		D 19		U 4					S/C 4								
D 5		D 20		U 5					S/C 5								
D 6		D 21		U 6					S/C 6								
D 7		D 22		U 7					S/C 7								
D 8		D 23		U 8					S/C 8								
D 9		D 24		U 9					S/C 9								
D 10		D 25		U 10					S/C 10								
D 11		D 26		U 11					S/C 11								
D 12		D 27		U 12					S/C 12								
D 13		D 28		U 13					S/C 13								
D 14		D 29		U 14					S/C 14								
D 15		D 30		U 15					S/C 15								

bulk samples					
no.	from	to	no.	from	to
B 1	2.0	2.5	B 11		
B 2	3.5	4.0	B 12		
B 3	5.0	5.5	B 13		
B 4			B 14		
B 5			B 15		
B 6			B 16		
B 7			B 17		
B 8			B 18		
B 9			B 19		
B 10			B 20		

ground water			
depth struck	1.8		
casing depth	1.5		
inflow rate	FRE.		
rose to 5 min.			
rose to 10 min.			
rose to 15 min.			
sealed out at			
sample no.	W	W	W
sample depth			
water level at start of boring			DET
water level at finish of boring			DET
water level when casing removed			5 PIPE

water added			
from			
to			
litres			

chisel or pits			
depth	from		
	to		
time	from		
	to		
hours			

borehole complete?	Yes	<input checked="" type="checkbox"/>
depth of borehole cased	6.2	
standpipe depth	6.0	
piezotip	gastap	<input checked="" type="checkbox"/> cover

remarks
1.30 HAD TO STOP WORK PHEASANT SHOOT STARTED AT 1.45

driller
R W

from	to	consistency or density/colour/type
GL	0.7	DARK BROWN MOTTLED PEAT SOIL.
0.7	1.5	SOFT GREY MOTTLED SILT.
1.5	10.0	GREY MOTTLED GRAVEL FLINTS AND SAND.
8.30 TO 11.15 STANDING		
INSTRUCTED BY ENGINEER TO WAIT AT		
GRAVEL WORKS WILL ACCESS AND KEYS		
ARE SORTED OUT.		

disturbed samples			undisturbed samples				penetration tests										
no.	depth	no.	depth	no.	depth	casing depth	length	blows	type/no	depth	casing depth	water level	150 seating	75	75	75	75
D 1		D 16		U 1					S/C 1								
D 2		D 17		U 2					S/C 2								
D 3		D 18		U 3					S/C 3								
D 4		D 19		U 4					S/C 4								
D 5		D 20		U 5					S/C 5								
D 6		D 21		U 6					S/C 6								
D 7		D 22		U 7					S/C 7								
D 8		D 23		U 8					S/C 8								
D 9		D 24		U 9					S/C 9								
D 10		D 25		U 10					S/C 10								
D 11		D 26		U 11					S/C 11								
D 12		D 27		U 12					S/C 12								
D 13		D 28		U 13					S/C 13								
D 14		D 29		U 14					S/C 14								
D 15		D 30		U 15					S/C 15								

bulk samples					
no.	from	to	no.	from	to
B 1	1.5	2.0	B 11		
B 2	3.5	4.0	B 12		
B 3	5.5	6.0	B 13		
B 4	7.5	8.0	B 14		
B 5			B 15		
B 6			B 16		
B 7			B 17		
B 8			B 18		
B 9			B 19		
B 10			B 20		

ground water			
depth struck	1.5		
casing depth	NO.		
inflow rate	FAS.		
rose to 5 min.			
rose to 10 min.			
rose to 15 min.			
sealed out at			
sample no.	W	W	W
sample depth			
water level at start of boring			DR7
water level at finish of boring			0.7
water level when casing removed			5 PIPE

water added			
from			
to			
litres			

chisel or pits			
depth	from		
	to		
time	from		
	to		
	hours		

remarks
2 ³/₄ HOURS STANDING

driller
R W J

borehole complete?	Yes	<input checked="" type="checkbox"/>
depth of borehole cased	10.0	
standpipe depth	10.0	
piezotip	-	gastap - <input checked="" type="checkbox"/> cover