


Client: <b>Marborough Highways</b>		Hole Diameter (mm):	254 to 7.00m 200 to 21.00m	<b>BOREHOLE NUMBER CP01</b> Sheet 1 of 4
Method: Cable Percussion		Casing Dia. (mm):	254 to 7.00m 200 to 21.00m	
Date Started: 03/11/2020	Co-ordinates	Ground Level (m AOD)	Ref. No: <b>1046992</b>	

Backfill/Well		Water	Samples		In Situ Tests		Reduced Level (mAOD)	Depth & Thickness (m)	Description of Strata	Legend
Depth (m)	Legend	Depth (m)	Depth (m)	Type	Type	Results				
0.10								(0.07)	Asphalt.	
			0.30	D	0.30	PID = 0.0ppm		0.07	Brown mottled red, fine to coarse sandy, sub-angular to rounded, fine to coarse GRAVEL of brick and flint with traces of chalk.	
			0.50	ES			(0.43)	0.50		
			0.60	D			(0.10)	0.60		
			0.90	D			(0.70)	1.30	Brown, gravelly, fine to coarse SAND. Gravel is sub-angular to rounded, fine to coarse brick and flint.	
			1.50	ES	1.50	N = 13		(0.70)	(Made Ground)	
			1.50 - 2.00	B			(1.70)	2.00		
			2.00	D				2.50	Brown, fine to coarse sandy, sub-angular to rounded, fine to coarse GRAVEL of flint and brick.	
			2.50 - 3.00	B	2.50	N = 36		3.00		
			3.00	ES				3.00	(Made Ground)	
			3.50 - 4.00	B	3.50	N = 2		4.00		
			4.00	D				4.50	Medium dense to dense, brown, fine to coarse sandy, sub-angular to rounded, fine to coarse GRAVEL of flint, chert and quartzite. Low cobble content of black sub-rounded flint. Occasional small pockets of grey, fine and medium sandy organic clay.	
			4.50 - 5.00	B	4.50	N = 18		5.00		
			5.00	D				5.80	(Head?)	
			5.50 - 6.00	B	5.50	N = 14		5.80		
			5.80	D	5.80	PID = 0.0ppm		5.80	Loose becoming medium dense with depth, grey, fine and coarse sandy, sub-angular to rounded, fine to coarse, flint and quartzite GRAVEL with a slight organic odour. Small pockets of organic clay with plant remains.	
			6.00	D			(2.80)	6.80		
			6.50 - 6.95	U=80				(1.00)	Stiff, brown mottled grey, slightly gravelly CLAY. Gravel is angular, fine flint and siltstone.	
			7.00	D				6.80		
			7.50 - 7.95	D	7.50	N = 19			Very stiff, grey and brown, very thinly bedded, locally silty, fine to coarse very sandy CLAY. Occasional trace of iron stained bedding fissures.	
			8.00	D						
			8.51	U=40	8.50	PID = 0.0ppm			(Thames Group?)	
			8.50 - 8.95	D						
			9.00	D					Very stiff, grey and brown, very thinly bedded, locally silty, fine to coarse very sandy CLAY. Occasional trace of iron stained bedding fissures.	
			9.50 - 9.95	D	9.50	N = 24		(6.20)		

General Remarks:  
 1. Cored with a cable percussion follow up.  
 2. Roots observed to a maximum depth of 2.5m below ground level.  
 3. Water added to advance drilling from 1m to 3.5m below ground level.  
 4. Water strike at 3m and 5.8m below ground level with no rise.  
 5. Water seal at 5.8m.  
 6. Water strike at 22.2m rising from 11.28m to 8.51m below ground level.  
 7. A 63mm pipe installation carried out as per the client engineer instructions on 5th November 2020 and removed as per the client engineer instruction on 6th November 2020.

Driller:		<b>BOREHOLE RECORD</b> Scale 1:50 See Key Sheet for explanation of symbols, etc.	 Giving our all
Logged:			
Checked:		<b>Boxted Bridge</b>	<b>FIG A1</b>
Appr'd:			

Client: <b>Marborough Highways</b>		Hole Diameter (mm):	254 to 7.00m 200 to 21.00m	<b>BOREHOLE NUMBER CP01</b> Sheet 2 of 4
Method: Cable Percussion		Casing Dia. (mm):	254 to 7.00m 200 to 21.00m	
Date Started: 03/11/2020	Co-ordinates	Ground Level (m AOD)	Ref. No: <b>1046992</b>	

Backfill/Well		Water	Samples		In Situ Tests		Reduced Level (mAOD)	Depth & Thickness (m)	Description of Strata	Legend
Depth (m)	Legend	Depth (m)	Depth (m)	Type	Type	Results				
			10.00	D					Very stiff, grey and brown, very thinly bedded, locally silty, fine to coarse very sandy CLAY. Occasional trace of iron stained bedding fissures. (Thames Group?)	
			10.50 - 10.95	D	10.50	N = 22				
			11.50	D						
			12.50 - 12.95	D	12.50	N = 28			Very stiff, greenish grey, thinly laminated, locally silty, very fine and medium sandy CLAY with occasional very stiff thin lenses of brown fine sandy clay at 20.5m below ground level. (Thanet Formation?)	
			13.50	D						
			14.50 - 14.95	U=70						
			15.00	D						
			16.00	D						
			16.50 - 16.95	D	16.50	N = 29				
16.70			17.50	D			(8.72)			
			18.50 - 18.95	U=80						
			19.00	D						

General Remarks:  
 1. Cored with a cable percussion follow up.  
 2. Roots observed to a maximum depth of 2.5m below ground level.  
 3. Water added to advance drilling from 1m to 3.5m below ground level.  
 4. Water strike at 3m and 5.8m below ground level with no rise.  
 5. Water seal at 5.8m.  
 6. Water strike at 22.2m rising from 11.28m to 8.53m below ground level.  
 7. A 63mm pipe installation carried out as per the client engineer instructions on 5th November 2020 and removed as per the client engineer instruction on 6th November 2020.

Driller:		<b>BOREHOLE RECORD</b> Scale 1:50 See Key Sheet for explanation of symbols, etc.	
Logged:			
Checked:		<b>Boxted Bridge</b>	<b>FIG A1</b>
Appr'd:			

Client: <b>Marborough Highways</b>		Hole Diameter (mm):	254 to 7.00m 200 to 21.00m	<b>BOREHOLE NUMBER CP01</b> Sheet 3 of 4
Method: Cable Percussion		Casing Dia. (mm):	254 to 7.00m 200 to 21.00m	
Date Started: 03/11/2020	Co-ordinates	Ground Level (m AOD)	Ref. No: <b>1046992</b>	

Backfill/Well		Water	Samples		In Situ Tests		Reduced Level (mAOD)	Depth & Thickness (m)	Description of Strata	Legend
Depth (m)	Legend	Depth (m)	Depth (m)	Type	Type	Results				
			20.00	D					Very stiff, greenish grey, thinly laminated, locally silty, very fine and medium sandy CLAY with occasional very stiff thin lenses of brown fine sandy clay at 20.5m below ground level. (Thanet Formation?)	
			20.50 - 20.95	D	20.50	N = 49				
			21.50	D					Structureless CHALK recovered from disturbed samples as off-white, structureless melange comprising of 10%-20% of sub-angular and sub-rounded, fine to coarse chalk gravel and very rare flint in an 80%-90% of sand and silt size matrix. (Lewes Nodular and Seaford Chalk Formation?)	
			21.72	D			21.72			
22.00		22.20	22.50 - 22.95	D	22.50	N = 20				
			23.00	D						
			23.50 - 23.95	D	23.50	N = 21				
			24.00	D						
			24.50 - 24.95	D	24.50	N = 23				
			25.00	D						
			25.50 - 25.95	D	25.50	N = 50/275mm				
			26.00	D			(8.28)			
			26.50 - 26.95	D	26.50	N = 35				
			27.50 - 27.95	D	27.50	N = 35				
			28.50 - 28.95	D	28.50	N = 20				
			29.50 - 29.95	D	29.50	N = 23				

General Remarks:  
 1. Cored with a cable percussion follow up.  
 2. Roots observed to a maximum depth of 2.5m below ground level.  
 3. Water added to advance drilling from 1m to 3.5m below ground level.  
 4. Water strike at 3m and 5.8m below ground level with no rise.  
 5. Water seal at 5.8m.  
 6. Water strike at 22.2m rising from 11.28m to 8.53m below ground level.  
 7. A 63mm pipe installation carried out as per the client engineer instructions on 5th November 2020 and removed as per the client engineer instruction on 6th November 2020.


Driller:		<b>BOREHOLE RECORD</b> Scale 1:50 See Key Sheet for explanation of symbols, etc.	 Giving our all
Logged:			
Checked:			
Appr'd:	<b>Boxted Bridge</b>	<b>FIG A1</b>	

Client: <b>Marborough Highways</b>		Hole Diameter (mm):	254 to 7.00m 200 to 21.00m	<b>BOREHOLE NUMBER CP01</b> Sheet 4 of 4
Method: Cable Percussion		Casing Dia. (mm):	254 to 7.00m 200 to 21.00m	
Date Started: 03/11/2020	Co-ordinates	Ground Level (m AOD)	Ref. No: <b>1046992</b>	

Backfill/Well		Water	Samples		In Situ Tests		Reduced Level (mAOD)	Depth & Thickness (m)	Description of Strata	Legend
Depth (m)	Legend	Depth (m)	Depth (m)	Type	Type	Results				
30.00							30.00	End of Borehole at 30.00m		

DRAFT

General Remarks:  
 1. Cored with a cable percussion follow up.  
 2. Roots observed to a maximum depth of 2.5m below ground level.  
 3. Water added to advance drilling from 1m to 3.5m below ground level.  
 4. Water strike at 3m and 5.8m below ground level with no rise.  
 5. Water seal at 5.8m.  
 6. Water strike at 22.2m rising from 11.28m to 8.53m below ground level.  
 7. A 63mm pipe installation carried out as per the client engineer instructions on 5th November 2020 and removed as per the client engineer instruction on 6th November 2020.

Driller:		<b>BOREHOLE RECORD</b> Scale 1:50 <small>See Key Sheet for explanation of symbols, etc.</small>	
Logged:			
Checked:		Boxted Bridge	FIG A1
Appr'd:			

Client: <b>Marborough Highways</b>		Hole Diameter (mm): 254 to 7.00m 200 to 21.00m	<b>BOREHOLE NUMBER CP02</b> Sheet 1 of 3
Method: Cable Percussion		Casing Dia. (mm): 254 to 6.00m 200 to 13.50m	
Date Started: 09/11/2020	Co-ordinates	Ground Level (m AOD)	

Backfill/Well		Water	Samples		In Situ Tests		Reduced Level (mAOD)	Depth & Thickness (m)	Description of Strata	Legend
Depth (m)	Legend	Depth (m)	Depth (m)	Type	Type	Results				
0.10			0.30	D	0.30	PID = 0.0ppm		(0.13) Asphalt (Bituminous Material)		
			0.50	ES				0.13		
			0.60	D				(0.12) Concrete (Concrete)		
			0.90	D				(0.15) Brown mottled orange, fine to coarse sandy, sub-angular to rounded, fine to coarse GRAVEL of brick, flint and chert with traces of chalk. (1.10) (Made Ground)		
			1.50	ES	1.50	N = 18		1.50		
			1.50 - 2.00	B				Medium dense, brown mottled grey, gravelly, locally clayey, fine to coarse SAND. Gravel is sub-angular to rounded, fine to coarse flint, chert and occasional brick. (1.50) (Made Ground)		
			2.00	D						
			2.50 - 3.00	B	2.50			Dense, brown, fine to coarse sandy, sub-angular to rounded, fine to coarse GRAVEL of flint, chert and quartzite. Low cobble content of black, sub-rounded flint. (Head?)		
3.00		2.72	3.00	ES				3.00		
			3.50 - 4.00	B	3.50	N = 13		4.00		
			4.00	D				(2.50) Medium dense to dense, grey, fine and coarse sandy, sub-angular to rounded, fine to coarse, flint and chert GRAVEL with a slight organic odour. Low cobble content of sub-angular and sub-rounded black flint. (River Terrace Deposits?)		
			4.50 - 5.00	B	4.50	N = 37		5.50		
			5.00	D				5.50		
			5.50 - 6.00	B	5.50	N = 7 PID = 0.0ppm		5.50		
6.00		5.26	6.00	D				(1.30) Firm to stiff, grey and brown, locally silty CLAY. (Thames Group?)		
		5.27	6.50 - 6.95	U=80				6.80		
			6.80	D				6.80		
			7.00	D				(0.70) Dense, grey and brown, very thinly bedded, locally silty, clayey, fine to coarse SAND (Thames Group?)		
			7.50 - 7.95	D	7.50	N = 45		7.50		
			8.00	D				Very stiff, greenish grey, thinly laminated, locally silty, very fine to coarse sandy CLAY. (Thames Group?)		
			8.50 - 8.95	D	8.50	N = 22				
			9.00	D						
			9.50 - 9.95	D	9.50	N = 22				

General Remarks:  
1. Cored with a cable percussion follow up.  
2. Roots observed to a maximum depth of 2.0 below ground level.  
3. Water added to advance drilling from 1.7m to 4m below ground level.  
4. Multiple water strike at 3m, 6.8m, 10.5m and 22m below ground level. At 3m water level rising to 2.72m, 6.8m water level rising to 5.27m, 10.5m water rising to 5.26m and at 22m water level rising to 8.27m after 20 minutes observation at each water strike.  
5. No installation.


Driller:	<b>BOREHOLE RECORD</b> Scale 1:50 See Key Sheet for explanation of symbols, etc.	<b>CET</b> INFRASTRUCTURE Giving our all
Logged:		
Checked:		
Appr'd:		
<b>Boxted Bridge</b>		<b>FIG A2</b>

Client: <b>Marborough Highways</b>		Hole Diameter (mm):	254 to 7.00m 200 to 21.00m	<b>BOREHOLE NUMBER CP02</b> Sheet 2 of 3
Method: Cable Percussion		Casing Dia. (mm):	254 to 6.00m 200 to 13.50m	
Date Started: 09/11/2020	Co-ordinates	Ground Level (m AOD)	Ref. No: <b>1046992</b>	

Backfill/Well		Water	Samples		In Situ Tests		Reduced Level (mAOD)	Depth & Thickness (m)	Description of Strata	Legend
Depth (m)	Legend	Depth (m)	Depth (m)	Type	Type	Results				
		10.50	10.00 - 10.50	B				(5.30)	Very stiff, greenish grey, thinly laminated, locally silty, very fine to coarse sandy CLAY. (Thames Group?)	[Pattern]
			10.50 - 10.95	D	10.50	N =25 PID = 0.0ppm				
			11.50 - 12.00	B					Very stiff, grey mottled light grey, locally silty, very fine and medium sandy CLAY. (Thanet Formation?)	[Pattern]
			12.50 - 12.95	D	12.50	N =28		12.80		
			13.50 - 14.00	B						[Pattern]
			14.50 - 14.95	U=70						
			15.00	D						[Pattern]
			16.00	D						
			16.50 - 16.95	D	16.50	N =25		(7.50)		[Pattern]
			17.50	D						
			18.50 - 18.95	U=80						[Pattern]
			19.00	D						

General Remarks:

- Cored with a cable percussion follow up.
- Roots observed to a maximum depth of 2.0 below ground level.
- Water added to advance drilling from 1.7m to 4m below ground level.
- Multiple water strike at 3m, 6.8m, 10.5m and 22m below ground level. At 3m water level rising to 2.72m, 6.8m water level rising to 5.27m, 10.5m water rising to 5.26m and at 22m water level rising to 8.27m after 20 minutes observation at each water strike.
- No installation.


Driller:		<b>BOREHOLE RECORD</b> Scale 1:50 See Key Sheet for explanation of symbols, etc.	 Giving our all
Logged:			
Checked:		<b>Boxted Bridge</b>	<b>FIG A2</b>
Appr'd:			

Client: <b>Marborough Highways</b>		Hole Diameter (mm):	254 to 7.00m 200 to 21.00m	<b>BOREHOLE NUMBER CP02</b> Sheet 3 of 3
Method: Cable Percussion		Casing Dia. (mm):	254 to 6.00m 200 to 13.50m	
Date Started: 09/11/2020	Co-ordinates	Ground Level (m AOD)	Ref. No: <b>1046992</b>	

Backfill/Well		Water	Samples		In Situ Tests		Reduced Level (mAOD)	Depth & Thickness (m)	Description of Strata	Legend
Depth (m)	Legend	Depth (m)	Depth (m)	Type	Type	Results				
			20.00	D					Very stiff, grey mottled light grey, locally silty, very fine and medium sandy CLAY. (Thanet Formation?)	
			20.50 - 20.95	D	20.50	N = 44			(0.90) Very stiff, grey and brown mottled green, thinly bedded, locally silty, very fine and medium sandy CLAY.	
			21.50	D					21.20 (0.60) (Thanet Formation?)	
			22.00	EW					Grey, clayey, fine and medium SAND with rare low cobble content recovered from disturbed sample as grey, strongly cemented, angular, fine and medium grained gravel sized fragments.	
			22.50 - 22.95	D	22.50	N = 18			(Thanet Formation?)	
			23.00	D					Structureless CHALK recovered from disturbed samples as off-white, structureless melange comprising of 10-20% of sub-angular and sub-rounded, fine to coarse chalk gravel and very rare flint in an 80-90% of sand and silt size matrix. Low cobble content of sub-angular and sub-rounded black flint.	
			23.50 - 23.95	D					(Lewes Nodular and Seaford Chalk Formation?)	
			24.00	D						
			24.50 - 24.95	D	24.50	N = 20				
			25.00	D						
			25.50 - 25.95	D	25.50	N = 18/275mm		(7.15)		
			26.00	D						
			26.50 - 26.95	D	26.50	N = 20				
			27.50 - 27.95	D	27.50	N = 24				
			28.50 - 28.95	D	28.50	N = 32				
28.95								28.95	End of Borehole at 28.95m	

General Remarks:

- Cored with a cable percussion follow up.
- Roots observed to a maximum depth of 2.0 below ground level.
- Water added to advance drilling from 1.7m to 4m below ground level.
- Multiple water strike at 3m, 6.8m, 10.5m and 22m below ground level. At 3m water level rising to 2.72m, 6.8m water level rising to 5.27m, 10.5m water rising to 5.26m and at 22m water level rising to 8.27m after 20 minutes observation at each water strike.
- No installation.

Driller:	<b>BOREHOLE RECORD</b> Scale 1:50 See Key Sheet for explanation of symbols, etc.	
Logged:		
Checked:		
Appr'd:		
<b>Boxted Bridge</b>		<b>FIG A2</b>