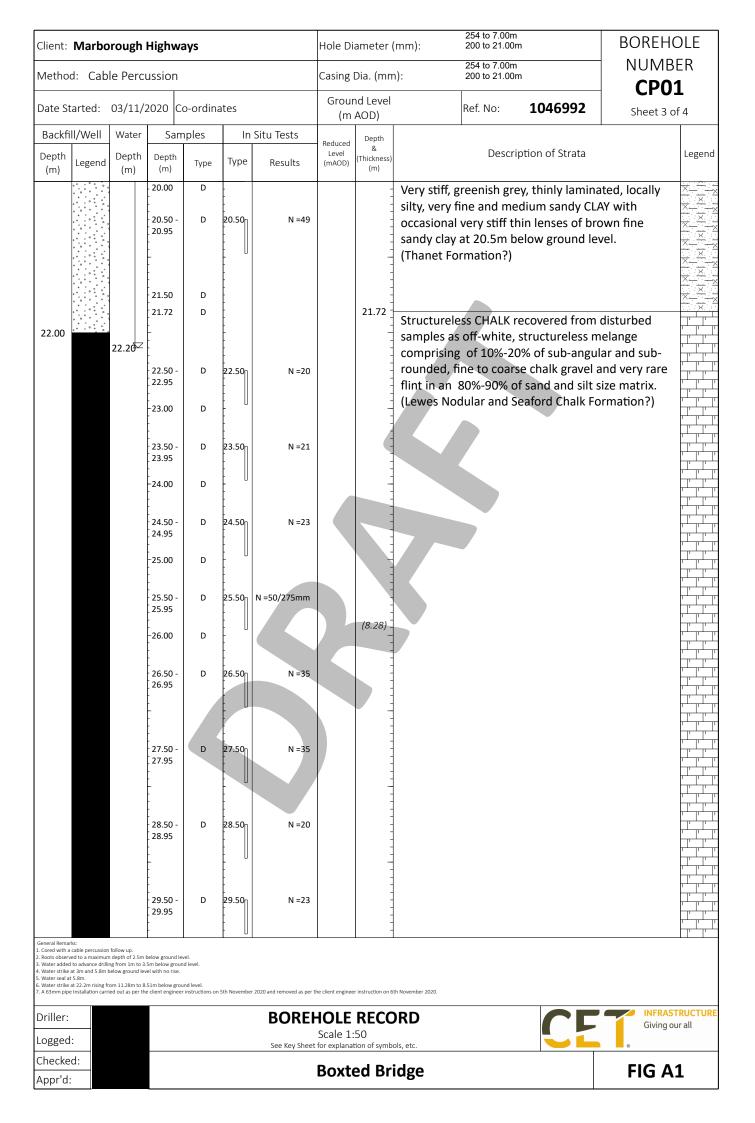
Client: Marborough	Highwa	ays			Hole Di	ameter (	mm): 254 to 7.00m 200 to 21.00m BOREHO	LE	
Method: Cable Pere	cussion				Casing	Dia. (mm		NUMBER	
Date Started: 03/11	/2020 C	o-ordina	tes			nd Level AOD)	Ref. No: <b>1046992</b> Sheet 1 of 2		
Backfill/Well Water	Sam	nples	In	Situ Tests	Reduced	Depth			
Depth (m) Legend Depth (m)	Depth (m)	Туре	Туре	Results	Level (mAOD)	& (Thickness) (m)	Description of Strata	Legend	
' llegend '	(m) 0.30 0.50 0.60 0.90 1.50 1.50 2.00 2.00 2.00 2.50 3.00 2.50 3.00 4.00 4.00 4.00 4.50 5.50 6.00 6.95 -7.00 7.50 -7.95 8.00	Type D ES D D ES B D B ES B D B D B D U 8 D U 8 D U 8 D D U 8 D D U 8 D D U 8 D D 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Type 0.30	Results   PID = 0.0ppm   N =13   N =36   N =36   N =13   N =13   N =14   PID = 0.0ppm   N =19   PID = 0.0ppm	(mAOD)		Asphalt.   Brown mottled red, fine to coarse sandy, sub- angular to rounded, fine to coarse GRAVEL of brick and flint with traces of chalk.   (Made Ground)   Brown, gravelly, fine to coarse SAND. Gravel is sub-angular to rounded, fine to coarse brick and flint.   (Made Ground)   Brown, fine to coarse sandy, sub-angular to rounded, fine to coarse GRAVEL of flint and brick.   (Made Ground)   Brown, fine to coarse GRAVEL of flint and brick.   (Made Ground)   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.   (Head?)   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.   (River Terrace Deposits?)   Stiff, brown mottled grey, slightly gravelly CLAY. Gravel is angular, fine flint and siltstone. (Thames Group?)   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?)		
	9.50 - 9.95	D	9.50	N =24				× ×	
General Remarks: 1. Cored with a cable percussion follow up. 2. Roots observed to a maximum depth of 2.53. 3. Water addeet to advance drilling from In to 4. Water strike at 3m and 5.8m below ground 5. Water seal at 5.8m. 6. Water strike at 22.2m rising from 11.28m to 7. A 63mm pipe Installation carried out as per Driller:	m below ground le 3.5m below grour level with no rise. 8.51m below grou	nd level. und level.	5th November						
				BORE	Scale 1:		Giving our a		
Logged:				See Key Sheet			ols, etc.		
Checked: Appr'd:					Boxt	ed Bri	idge FIG A1		

Client:	Marbo	orough	Highwa	ays			Hole Di	ameter (	254 to 7.00m mm): 200 to 21.00m	BOREHOLE	
Metho	d: Cab	le Perci	ussion				Casing	Dia. (mm	254 to 7.00m 1): 200 to 21.00m	NUMBER	
		02/44/					Grour	nd Level		- <b>CP0</b> 1	
Date Started: 03/11/2020 Co-ordinates								AOD)	Ref. No: <b>1046992</b>	Sheet 2 of	f 4
	ll/Well	Water	Sam	nples I	In	Situ Tests	Reduced	Depth &			
Depth (m)	Legend	Depth (m)	Depth (m)	Туре	Туре	Results	Level (mAOD)	(Thickness) (m)	Description of Strata		Legend
			10.00	D	-			-	Very stiff, grey and brown, very thin		××
			- - - 10.50 -	D	- 10.50⊓	N =22			locally silty, fine to coarse very sand Occasional trace of iron stained bed		××
			10.95		-			-	(Thames Group?)	iumg inssures.	×× ××
			-								××
					-						××
			11.50	D	-			-			××
			-								××
			-		-			-			××
			12.50 - 12.95	D	12.50	N =28		-			××
			-					13.00			×— —× ×— × —×
								13.00	Very stiff, greenish grey, thinly lamin		× × ·
			13.50	D	-				silty, very fine and medium sandy C occasional very stiff thin lenses of b		××
					-			-	sandy clay at 20.5m below ground I		××
					-			-	(Thanet Formation?)		× ×
			- - - 14.50 -	U=70	-			-			× ××
			14.95		-						××
			-15.00	D	-						
					-						××
					-			-			××
			- 16.00	D	-			-			××
					-						^ XX
10.70			16.50 - 16.95	D	16.50	N =29					× ××
16.70			-								××
					ł			-			
			17.50	D				(8.72)			
								-			××
		•			Ē			-			×× ×
			- 18.50 -	U=80	-			-			× × *
			18.95		-			-			××
			-19.00	D	-						
					-			-			××
					-			-			× ××
General Remai	rks:		-		[			-			×
1. Cored with a 2. Roots observ 3. Water addec	cable percussion ved to a maximun d to advance drilli	n depth of 2.5m i ing from 1m to 3.	.5m below groun								
5. Water seal a 6. Water strike	t 5.8m. at 22.2m rising fr	below ground lev rom 11.28m to 8. ied out as per the	.51m below grou		5th Novembe	r 2020 and removed as per ti	he client enginge	r instruction on 6	th November 2020.		
		per di	8410-61							INFRAST	RUCTURE
Driller: Logged							Scale 1:	50		Giving ou	
Checke						See Key Sheet			L	● ● ◎	
Appr'd							Boxt	ed Bri	dge	FIG A	L



Client: Marborough Highways								Hole Diameter (mm): 254 to 7.00m 200 to 21.00m					BOREHOLE	
Method: Cable Percussion								Casing Dia. (mm):			254 to 7.00m 200 to 21.00m		MBER	
Date Started: 03/11/2020 Co-ordinates							Grour	nd Level AOD)		Ref. No:	1046992	<b>6992 CP01</b>		
Backfil	l/Well	Water	Sam	nples	In	Situ Tests		Depth						
Dopth	Legend	Depth (m)	Depth (m)	Туре	Туре	Results	Reduced Level (mAOD)	(Thickness) (m)		Descri	ption of Strata		Legend	
Secretal Remark Secretaria at 3. Vater strike at 2. Notos observed 4. Water strike at 5. Water strike at 7. A 63mm pipe I	able percussior d to a maximur o advance drilli : 3m and 5.8m   5.8m. : 22.2m rising fi	n depth of 2.5m l ng from 1m to 3. below ground lev rom 11.28m to 8.	5m below grour el with no rise. 51m below grou	nd level. und level.	sth November	r 2020 and removed as per t		30.00 -	th November 2020.	End of B	orehole at 30.00m			
Driller:						BORE			ORD		CE		NFRASTRUCTURE	
Logged:						See Key Sheet	Scale 1:	50					ang oar an	
Checked Appr'd:	1:						Boxte	ed Bri	idge			FIG A1		
1- P . M.														

lient: Marborough I	Highways			Hole Di	ameter			
Nethod: Cable Percu	ussion			Casing	Dia. (mr	): 200 to 13.50m	NUMBER	
Date Started: 09/11/2	2020 Co-ordin	ates			nd Level AOD)	Ref. No: <b>1046992</b> Sheet 1 of		
Backfill/Well Water	Samples	In	Situ Tests		Depth			
Depth (m) Legend (m)	Depth (m) Type	Туре	Results	Reduced Level (mAOD)	& (Thickness) (m)	Description of Strata	Lege	
(m) 0.10 2.72 3.00 3.00 5.26 5.27 6.00 6.80 8.27 8.27	(m)   R     0.30   D     0.50   ES     0.60   D     0.90   D     1.50   ES     2.00   D     2.00   D     2.00   D     2.00   D     2.00   D     2.00   D     3.00   ES     3.00   ES     3.00   ES     3.00   D     4.00   D     4.50   B     5.00   D     5.50   B     6.00   D     6.50   U=80     6.95   U=80     6.95   D     7.00   D     7.50   D     7.95   D     8.95   D     9.90   D     9.50   D     9.50   D	1,50   1.50   2.50   3.50   4.50   5.50   9.50	PID = 0.0ppm   N = 13   N = 13   N = 37   PID = 0.0ppm   N = 45   N = 22		(m) (0.13) (0.12) (0.15) (0.15) (1.10) (1.10) (1.50) (1.50) (1.50) (2.50) (1.30) (2.50) (1.30) (0.70) (0.70) (0.70) (0.70) (0.70)	Asphalt (Bituminous Material) Concrete (Concrete) Brown mottled orange, fine to coarse sandy, sub- angular to rounded, fine to coarse GRAVEL of brick, flint and chert with traces of chalk. (Made Ground) 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. (Made Ground) Dense, brown, fine to coarse GRAVEL of flint, chert and quartzite. Low cobble content of black, sub- rounded flint. (Head?) 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?) Firm to stiff, grey and brown, locally silty CLAY. (Thames Group?) Very stiff, greenish grey, thinly laminated, locally silty, very fine to coarse sandy CLAY. (Thames Group?)		

## **Boxted Bridge**

Checked:

Appr'd:



Client: N	/larbo	rough	Highwa	ays			Hole Di	ameter (		BOREHOLE	
Method: Cable Percussion								Dia. (mm	254 to 6.00m ): 200 to 13.50m CP02		
Date Started: 09/11/2020 Co-ordinates								nd Level AOD)	Ref. No: <b>1046992</b> Sheet 2 of		
Backfill/	'Well	Water	Sam	nples	In	Situ Tests	Reduced Depth				
Depth (m)	egend	Depth (m)	Depth (m)	Туре	Туре	Results	Level (mAOD)	& (Thickness) (m)	Description of Strata	Legend	
			- 10.00 - 10.50	В	-			(5.30) -	Very stiff, greenish grey, thinly laminated, locally	×	
		10.50	- 10.50 - 10.95 - -	D	10.50 - - -	N =25 PID = 0.0ppm			silty, very fine to coarse sandy CLAY. (Thames Group?)		
			11.50 - 12.00 - - - - - - - - - - - - - - - - - -	B D	12.50	N =28					
			- 13.50 - 14.00	В				12.80	Very stiff, grey mottled light grey, locally silty, very fine and medium sandy CLAY. (Thanet Formation?)		
			- 14.50 - 14.95 - 15.00	U=70 D	-						
			- 16.00 - 16.50 - 16.50 -	D	16.50	N =25		(7.50)			
			17.50	D							
			- 18.50 - 18.95	U=80	-					×	
			-19.00	D	-					× × × × × × × × × × × × × × × × × × ×	
General Remarks 1. Cored with a ci 2. Roots observed 3. Water added to 4. Multiple water strike. 5. No installation	cable percus ed to a maxi to advance r strike at 3	mum depth o drilling from 1	f 2.0 below gro 7m to 4m bel	low ground le		vater level rising to 2.72	m, 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	
Driller:						BORE	<b>IOLE</b> Scale 1:		ORD INFRAST Giving ou		
Logged: Checked:						See Key Sheet	for explana	tion of symbo			
Appr'd:							Boxt	ed Bri	dge FIG A2	2	

Client: Marborough Highways								ameter	254 to 7.00m (mm): 200 to 21.00m	BOREHOLE	
Method: Cable Percussion								Dia. (mn	254 to 6.00m n): 200 to 13.50m	NUMBER	
							-	nd Level	CP02		2
	Started: 09/11/2020 Co-ordinates							AOD)	Ref. No: <b>1046992</b>	Sheet 3 o	f 3
	ll/Well	Water		nples	In	Situ Tests	Reduced Level	Depth &	Description of Strata		Logond
Depth (m)	Legend	Depth (m)	Depth (m)	Туре	Туре	Results	(mAOD)	(Thickness) (m)			Legend
			20.00	D	-				Very stiff, grey mottled light grey, lo	cally silty, very	××
			- 20.50 -	D	20.50	N =44		20.30 -	fine and medium sandy CLAY. (Thanet Formation?)		
			20.95					(0.90)	Very stiff, grey and brown mottled g		× × ×
			-		-			 21.20 -	bedded, locally silty, very fine and n	nedium sandy	× - ×
			21.50	D	-			(0.60) -	(Thanet Formation?)		
					-			21.80	Grey, clayey, fine and medium SANI cobble content recovered from dist		بە ° بەب ° ف ، ف
		22.00	-22.00	EW	-				as grey, strongly cemented, angula		
			-		-			-	medium grained gravel sized fragme	ents.	
			22.50 - 22.95	D	22.50	N =18		-	(Thanet Formation?) Structureless CHALK recovered from	n disturbed	
			-23.00	D					samples as off-white, structureless	•	
			-		-				comprising of 10-20% of sub-angul rounded, fine to coarse chalk grave		
			23.50 -	D	-			9	flint in an 80-90% of sand and silt s	ize matrix. Low	
			-24.00	D	[			-	cobble content of sub-angular and s black flint.	sub-rounded	
			24.00		-				(Lewes Nodular and Seaford Chalk I	ormation?)	
			24.50 -	D	24.50	N =20					
			24.95								
			-25.00	D	-						
			- 25.50 -	D	- 25.50 <sub>0</sub>	N =18/275mm		(7.15)			
			25.95		-			-			
			-26.00	D	- U -			-			
			26.50 - 26.95	D	26.50	N =20					
			-								
			-		Ē			-			
			27.50 - 27.95	D	27.50	N =24		-			
			-				Y	-			
			-		-			-			
			- 28.50 - 28.95	D	28.50	N =32		-			
28.95								28.95			
			[		[				End of Borehole at 28.95m	1	
					[			-			
			-		-						
General Rem 1. Cored with	narks: n a cable percu	I Ission follow I	I	1		1	1	1	1		1
2. Roots obse 3. Water add	erved to a max ed to advance	imum depth o drilling from	of 2.0 below gr 1.7m to 4m be	low ground lev		water level rising to 2.72	m, 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 installat		,				0	_	0 -	- 5		
Driller:						BORE	HOLE	RECC	DRD	Giving ou	<b>RUCTURE</b> Ir all
Logged	:					See Key Sheet	Scale 1: for explanat		ols, etc.	©	
Checke							Boxte	ed Br	idge	FIG A	2
Appr'd:			Í								-