June 2024

Appendix D Surface Water Drainage Strategy



June 2024

Appendix E Soil Logs and Infiltration

Highland Court Farm,

Bridge nr Canterbury

Kent

CT4 5HW







IMPORTANT CONFIDENTIALITY NOTICE This email and any attachment is confidential and may contain privileged information. It is intended solely for the addressee. If you are not the intended recipient, please notify the sender immediately and delete this email. Any views or other information in this message which do not relate to our business are not authorised by us, nor does this message form part of any contract unless so stated. Any disclosure, copying, distribution or use of this communication is prohibited and may be unlawful. In accordance with normal business practice, and applicable regulations, all electronic communications with the Quinn Group of companies may be monitored and retained.

Quinn Estates Ltd Registered Company Number: 05150902 Registered Office: Quinn Estates Ltd, The Cow Shed, Highland Court Farm, Bridge, Kent, England, CT4 5HW

Subject: FW: Capel-le-ferne - Infiltration & Soakage Testing

Hi Toby/Mark,

Feedback on yesterday's tests:

Neither of the soakage tests reached 25% of the effective storage depth in the available time and therefore the below infiltration rate calculations are indicative and not fully in accordance with BRE 365.

Both tests started quite quickly and then slowed.

Infiltration rates, calculated over the full test undertaken are presented below:

MTP01 recorded an infiltration rate of: 1.8×10^{-5} MTP02 recorded an infiltration rate of: 1.78×10^{-5}

However, both tests started with high infiltration rates slowed, as a worst case, the infiltration rate for the last 60mins of each test is presented below:

MTP01, infiltration rate of 4.8×10^{-6} MTP02, infiltration rate of 2.22×10^{-6}

It is probably worth discussing these rates with the engineer to see if they can make the drainage solution work on this basis. If not, then we can book the deeper boreholes in.

Kind regards

Rob

Idom Merebrook Limited (an IDOM Group Company)

IDOM

Rob Glavin

1 Leonard Place, Westerham Road, Keston, BR2 6HQ.

idom.com / merebrook.co.uk

----- Original message -----

Subject: RE: Capel-le-ferne - Infiltration & Soakage Testing

Hi Rob,

Landowners number below in advance of tomorrow.

They are ready to go with the bowser and digger. If they could just have clear instructions on locations of trial pits etc that would be great.

	10	noc	n			TRIAL PIT LOG	TrialPit No	
							Sheet 1 of 2	
Project Capel Name:			Project 2192		Co-ords: - Level:	Date 30/05/2024		
Locatio	on: Co	auldham Lano, Canol I	o forno Ka		.~ <u>9</u>	Dimensions (m):	Scale	
Location: Cauldham Lane, Capel-			le-ferne, Kent			8	1:25 Logged Checked	
Equipment:						Depth — 5.30	DJ TAS	
Water Strike	Samples & In S Depth Type	Results	Depth (m)	Level (m)	Legend	Stratum Description		
			0.20			TOPSOIL: Soft dark brown slightly gravelly sligl sandy clay with abundant rootlets. Gravels are medium sub rounded to angular of flint. Sand is	fine to	
			4.20			STRUCTURELESS CHALK recovered as off-w clayey GRAVEL with occasional brown clay bar frequent flint. Sand [Head Deposits] STRUCTURELESS CHALK recovered as off-w clayey GRAVEL with occasional brown clay bar frequent flint. Gravels are weak and vary from k medium density. Matrix is off-white soft silt. [we: Lewes CHALK formation]	rCLAY. is fine.	
D = :	III distributedI- (1.1.)	<u> </u>	Stability	[Remarks		
D = small disturbed sample (tub) J = organic sample (amber glass jar) V = volatile sample (amber glass vial) B = bulk bag sample HSV = hand shear vane (kPa) PP = pocket penetrometer (kg.cm2) PID = photoionisation detector (ppm)			- wonty			Coordinates and levels, where indicated, design purposes. The user is responsible setting out dimensions.		

		IC	noc	1			TRIAL PIT LOG	TrialPit MTP0	1
Project			Canal	Project No.			Co-ords: -	Sheet 2 of 2 Date	
Name: Capel			21929	9g	Level:	30/05/2024			
Location: Cauldham Lane, Capel-le			e-ferne, Ke	nt		Dimensions (m):	Scale 1:25		
Equipment:						Depth 5.30	Logged Checked DJ TAS		
Water Strike	Sample	s & In S	tu Testing	Depth	Level	Lagand	Stratum Description		
Stri	Depth	Туре	Results	(m)	(m)	Legend			
				5.30			STRUCTURELESS CHALK recovered as off-whic clayey GRAVEL with occasional brown clay band frequent flint. Gravels are weak and vary from low medium density. Matrix is off-white soft silt. [west Lewes CHALK formation] End of Pit at 5.300m	ls and v to	6
									10 —
J = orgar V = volat B = bulk HSV = ha PP = poo	Il disturbed sample (tu- nic sample (amber glatilie sample (amber glatile sample glatile sample and shear vane (kPa) sket penetrometer (kgotoionisation detector	iss jar) iss vial) .cm2)		Stability		1	Remarks Coordinates and levels, where indicated, m design purposes. The user is responsible for setting out dimensions.	ust not be used t or verifying all site	for e and

	ID	noc	n			TRIAL PIT LOG	TrialPit No	
			Project No.		· No	Convider	Sheet 1 of 2	
Project Capel Name:			2192		Co-ords: - Level:	Date 30/05/2024		
		uldham Lana Canal l	a forma Va		- <u> </u>	Dimensions (m):	Scale	
Location: Cauldham Lane, Capel-			z-ieilie, Ke			0 0	1:25 Logged Checked	
Equipment:						Depth — — — — — — — — — — — — — — — — — — —	DJ TAS	
Water Strike	Samples & In Sit	tu Testing Results	Depth (m)	Level (m)	Legend	Stratum Description		
			4.00			TOPSOIL: Soft dark brown slightly gravelly sligt sandy clay with abundant rootlets. Gravels are medium sub rounded to angular of flint. Sand is coarse. Soft orangish brown slightly gravelly sandy silty Gravel is fine to coarse of flint and chalk. Sand [Head Deposits] Soft orangish brown very gravelly sandy silty Cl Gravel is fine to coarse of flint and chalk. Sand Frequent cobbles of sub-rounded flint. [Head Defosits]	CLAY. is fine.	
D = small disturbed sample (tub) J = organic sample (amber glass jar) V = volatile sample (amber glass vial) B = bulk bag sample HSV = hand shear vane (kPa) PP = pocket penetrometer (kg.cm2) PID = photoionisation detector (ppm)			Stability			Remarks Coordinates and levels, where indicated, design purposes. The user is responsible setting out dimensions.	must not be used for for verifying all site and	

		IC	on	1			TRIA	L PIT LOG		TrialP MTF	P02	
Project Canel			Project No.			Co-ords: -		+	Sheet 2 of 2 Date		-	
Name: Capel				21929	9g	Level:			30/05/2024			
Location: Cauldham Lane, Capel-l			e-ferne, Ke	nt		Dimensions (m):	4.00	$\neg \bot$	Scale 1:25			
Equipment:						Depth 5.20	1.00	╛┌	Logged Checked DJ TAS			
Water Strike	Samples	s & In Situ	ı Testing	Depth	Level	Lagand	0.20	Stratum Description				1
Wa	Depth	Туре	Results	(m)	(m)	Legend		Stratum Description				
				5.20			Soft orangish to Gravel is fine to Frequent cobb	orown very gravelly sandy si o coarse of flint and chalk. S les of sub-rounded flint. [He: End of Pit at 5.200m	Ity CLA Fand is ad Dep	Y. fine. osits]	6	
											10 -	=
D = small disturbed sample (tub) J = organic sample (amber glass jar) V = volatile sample (amber glass vial) B = bulk bag sample HSV = hand shear vane (kPa) PP = pocket penetrometer (kg.cm2) PID = photoionisation detector (ppm)				Stability		1		Remarks Coordinates and levels, where indic design purposes. The user is resposetting out dimensions.	cated, mu	ust not be use r verifying all	ed for	

	П	n			TRIAL PIT LOG	TrialPit No MTP201 Sheet 1 of 1		
Project Capel		Project No.			Co-ords: -	Date		
Location: Cauldham Lane, Capel-		21929g			Level: Dimensions (m): 4.00	30/05/2024 Scale		
Equipment:						Depth -	1:25 Logged Checked	
	Samples & In				1.80	DJ	TAS	
Water Strike	Depth Type	Results	Depth (m)	Level (m)	Legend	Stratum Description		
			0.30		1 1 1	MADE GROUND comprising dark grey gravelly with common rootlets. Gravels are coarse angul flint and brick. Sands are coarse. STRUCTURELESS CHALK recovered as pale of the control of the c	lar chalk,	-
						gravelly slightly sandy CLAY with occasional flin brown clay. Gravels are weak low density. Matri- white silt. [weathered Lewes CHALK formation]	it and x is off-	1
			1.80			End of Pit at 1.800m		3
J = organi V = volatile B = bulk b HSV = har PP = pock	disturbed sample (tub) c sample (amber glass jar) e sample (amber glass vial) ag sample dd shear vane (kPa) et penetrometer (kg.cm2) toionisation detector (ppm)		Stability			Remarks Coordinates and levels, where indicated, design purposes. The user is responsible setting out dimensions.		