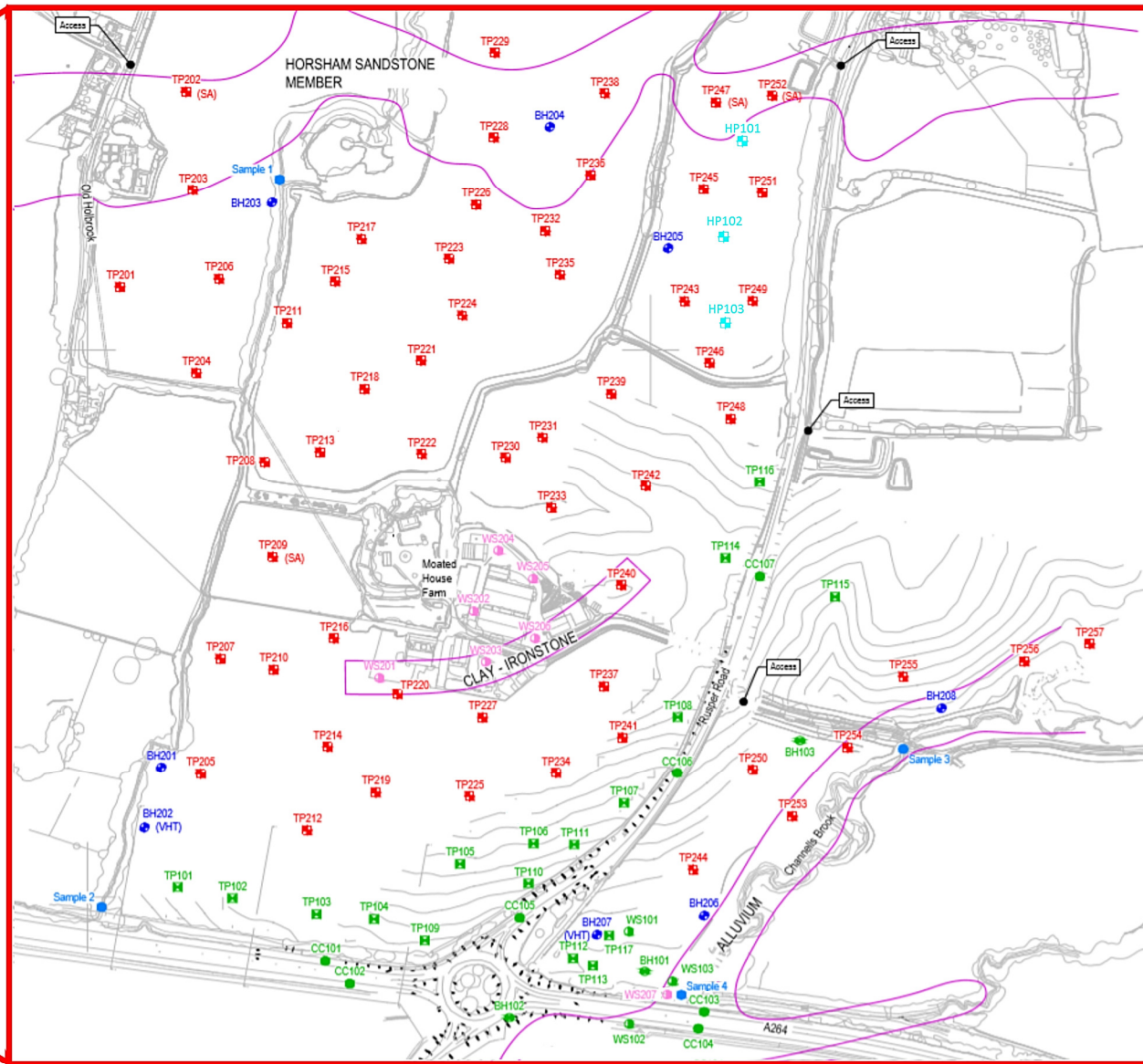




PROJECT:
PHASE 1 LAND NORTH OF HORSHAM, WEST SUSSEX

CLIENT:
LEGAL AND GENERAL LTD



SCALE:
NTS

DRAWN: JJW
CHECKED: MJS

JOB No.
J4175

DATE:
29/01/20

TITLE:
EXPLORATORY HOLE LOCATION PLAN

KEY:
 ● Deep Boreholes
 ■ Trial Pit
 ○ Windowless Sample Borehole
 ● Surface Water Sample Location
 ■ Hand Pit
 (SA) Soakaway Location
 (VHT) Variable Head Test Location
 ● Existing Exploratory Hole Locations (Hydrock, 2019)

REV:	DATE:	DETAILS:	DRW:	CHK:
DWG No:	FIGURE 1			REV:

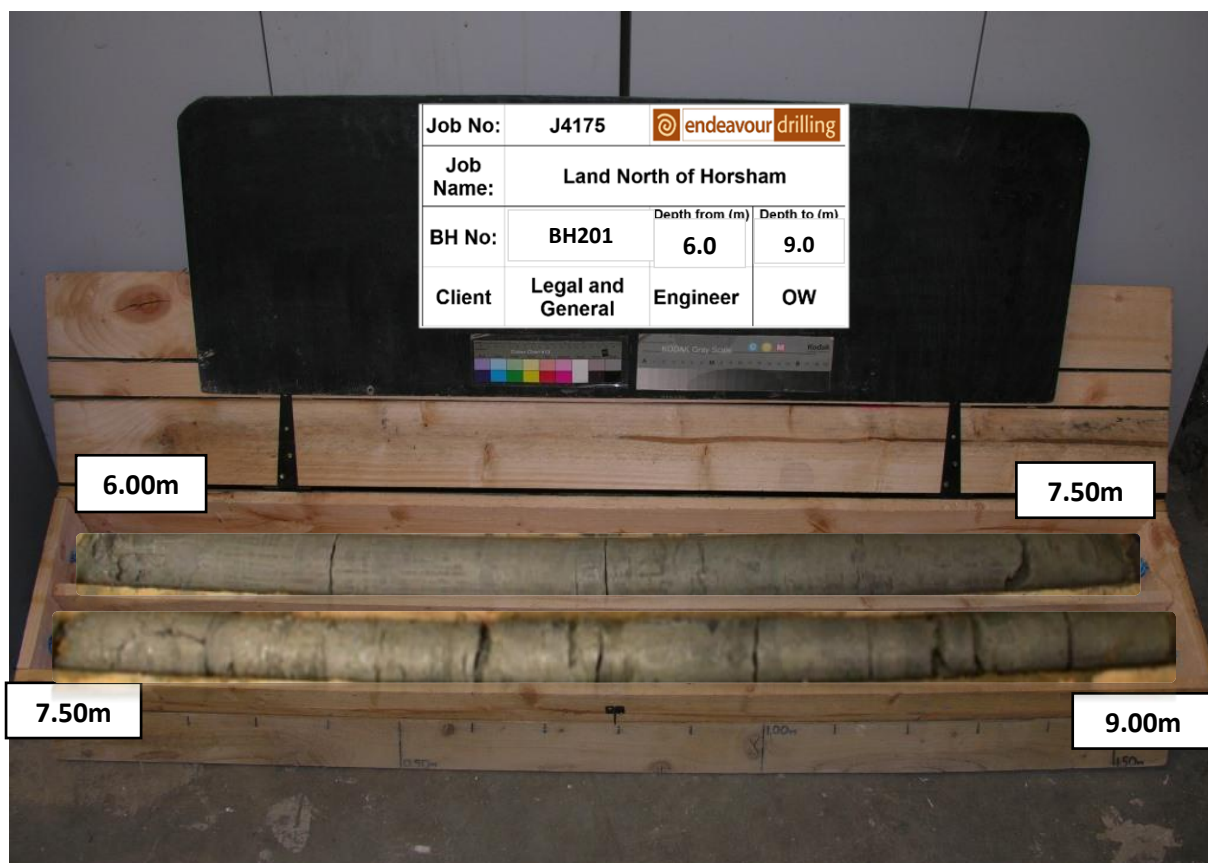
APPENDIX B

Rotary Core Borehole Records

		Contract Name: P1, Land North of Horsham, West Sussex			Client: Legal and General (Strategic Land North of Horsham) Ltd			Borehole ID: BH201												
		Contract Number: J4175	Date Started: 26/11/2019	Logged By: OW	Checked By: MJS	Status: FINAL	Sheet 1 of 2													
Geobore 'S' Rotary Drilling Log		Easting: 518567.1	Northing: 133617.2	Ground Level: 53.36mOD	Plant Used: Comacchio205	Print Date: 21/02/2020	Scale: 1:50													
		Weather: Frequent showers			Termination: Reached target depth		SPT Hammer: SPT5 Energy Ratio: 65%													
Samples & In Situ Testing										Strata Details		Groundwater								
Depth	TCR	SCR	RQD	FI	Sample	SPT	Level (mAOD)	Legend	Depth (m) (Thickness)	Strata Description	Water Strike	Backfill/Installation								
2.00 - 3.50	100	12	7	25	0.35 D1	SPT(S) 1.20m, N=19 (4,3/4,5,5,5)	53.10		0.25	TOPSOIL - Light brown sandy CLAY with frequent rootlets <2mm (living). Stiff light brown mottled orangish brown and light grey sandy CLAY. [RESIDUAL WEALD CLAY FORMATION]	1									
					0.50 ES1		52.66		0.70											
					HV 0.50m, 83kPa		52.16		1.20											
					0.80 B1															
					0.80 - 1.20 D2															
3.50 - 4.50	100	56	32	16	1.80 - 2.00 D3	SPT(S) 2.50m, 45 (15,10/45 for 280mm)	51.36		2.00	Stiff dark brown mottled orangish brown sandy CLAY with occasional gravel of extremely weak fine to coarse angular to sub-rounded mudstone and ironstone lithorelics and occasional lenses of light grey silty clay (<4mm in thickness). (RESIDUAL WEALD CLAY FORMATION)	2									
					2.00 - 2.45 D4		50.76		2.60											
					2.84 - 2.94 UT1															
					3.10 - 3.42 C1															
					4.50 - 6.00		100		85				51	13	3.10 - 3.42 C2	SPT(C) 3.50m, 100 (14,11/100,...)	49.86		3.50	Stiff dark brown mottled dark orangish brown sandy CLAY with occasional to rare extremely weak, fine to coarse angular to subangular, fine to coarse mudstone lithorelics and occasional lens of light grey silty clay. (DESTRUCTURED WEALD CLAY FORMATION) ...between 2.45m to 2.50mbgl becoming fissured. Fissures are extremely closely to very closely spaced, planar with rough and smooth surfaces. Apertures are tight to moderately wide and clean. Very stiff to light grey slightly sandy CLAY with dark orange staining penetrating up to 12mm, thickly interbedded with very weak dark brownish grey thickly laminated mudstone. Fractures are horizontal, extremely closely to closely spaced (20-100-40) planar with rough surfaces. Apertures are moderately wide to wide and clean. Weathering is dark orangish brown and dark brown penetrating up to 20mm on fractured surfaces. (DISTINCTLY TO PARTIALLY WEATHERED CLAY)
4.00 - 4.18 C3	47.36	6.00																		
5.55 - 5.90 C4																				
6.40 - 6.75 C5																				
6.00 - 7.50	100	98	73	6		6.40 - 6.75 C5		SPT(C) 4.50m, 100 (17,8/100,...)		47.36		6.00			Extremely weak to very weak thinly laminated to thinly bedded MUDSTONE. With occasional bands recovered as very stiff clay. Fractures are horizontal, very closely to closely spaced (30-180-70) planar with rough surfaces. Apertures are partly open to moderately wide and clean. Weathering is dark orange and reddish brown penetrating up to 3mm along fractured surfaces. (PARTIALLY WEATHERED WEALD CLAY FORMATION) ...below 4.70mbgl weathering becoming rare. Between 4.50m to 6.00m fractures are horizontal to subhorizontal, very closely to widely spaced (20-350-123), planar with rough and smooth surfaces. Apertures are tight to wide with occasional clay infilling.		4			
					8.42 - 8.58 C6	44.36	9.00													
					9.86 - 10.14 C7															
					9.00 - 10.50				100	93		49	8	SPT(C) 6.00m, 100 (25,/100 for 262mm)		SPT(C) 7.50m, 100 (25,/100 for 240mm)		(3.00)		Weak dark grey thinly to thickly laminated MUDSTONE with rare localised bands recovered as very stiff silty clay (<262mm). Fractures are horizontal, closely to widely spaced, (40-356-132) planar with rough and smooth surfaces. Apertures are moderately wide to wide with occasional clay infilling. (UNWEATHERED WEALD CLAY FORMATION) ...Between 7.50-9.00m fractures are horizontal to subhorizontal very closely to closely spaced (8mm-140mm-49). planar with rough and smooth surfaces. Apertures are tight to moderately wide with occasional clay infilling.
					9.86 - 10.14 C7															
9.86 - 10.14 C7																				
9.86 - 10.14 C7																				
9.86 - 10.14 C7																				
Start & End of Shift Observations					Borehole Diameter		Casing Diameter		Remarks:											
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	1. Inspection pit hand excavated to 1.20mbgl. 2. Dynamic sampled to 2.0mbgl, then rotary cored with PWF and water flush to 12.0mbgl. 3. No ground water encountered before water flush. 4. 50mm monitoring well installed to 6.0mbgl on completion.											
25-11-2019	16:00	2.60	1.50		1.20	300														
26-11-2019	16:00	4.50	1.50		2.00	130														
27-11-2019	16:00	12.00	1.50																	

	Contract Name: P1, Land North of Horsham, West Sussex				Client: Legal and General (Strategic Land North of Horsham) Ltd			Borehole ID: BH201						
	Contract Number: J4175	Date Started: 26/11/2019	Logged By: OW	Checked By: MJS	Status: FINAL	Sheet 2 of 2								
Geobore 'S' Rotary Drilling Log		Easting: 518567.1	Northing: 133617.2	Ground Level: 53.36mOD	Plant Used: Comacchio205	Print Date: 21/02/2020	Scale: 1:50							
Weather: Frequent showers			Termination: Reached target depth			SPT Hammer: SPT5 Energy Ratio: 65%								
Samples & In Situ Testing					Strata Details					Groundwater				
Depth	TCR	SCR	RQD	FI	Sample	SPT	Level (mAOD)	Legend	Depth (m) (Thickness)	Strata Description	Water Strike	Backfill/ Installation		
						SPT(C) 10.50m, 100 (25 for 20mm/100 for 50mm)			(3.00)	**please note run 10.50m to 12.00mbgl still stuck in barrel within borehole.	11			
							41.36		12.00	End of Borehole at 12.00m	12			
											13			
											14			
											15			
											16			
											17			
											18			
											19			
											20			
Start & End of Shift Observations					Borehole Diameter		Casing Diameter		Remarks:					
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	1. Inspection pit hand excavated to 1.20mbgl. 2. Dynamic sampled to 2.0mbgl, then rotary cored with PWF and water flush to 12.0mbgl. 3. No ground water encountered before water flush. 4. 50mm monitoring well installed to 6.0mbgl on completion.					
25-11-2019	16:00	2.60	1.50		1.20	300								
26-11-2019	16:00	4.50	1.50		2.00	130								
27-11-2019	16:00	12.00	1.50											
Flush Information					Installation				Water Strikes					
Top (m)	Base (m)	Flush Type	Return	Flush Colour	Top (m)	Base (m)	Type	Dia (mm)	Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
					0.00	1.00	PLAIN	50	1.20			20	0.96	
					1.00	6.00	SLOTTED	50	Fracture spacing reported as Index average over 1m. TCR, SCR and RQD reported in %					
HBSI RC Issue Number: 1 Issue Date: 21/04/2017 Author: CG														

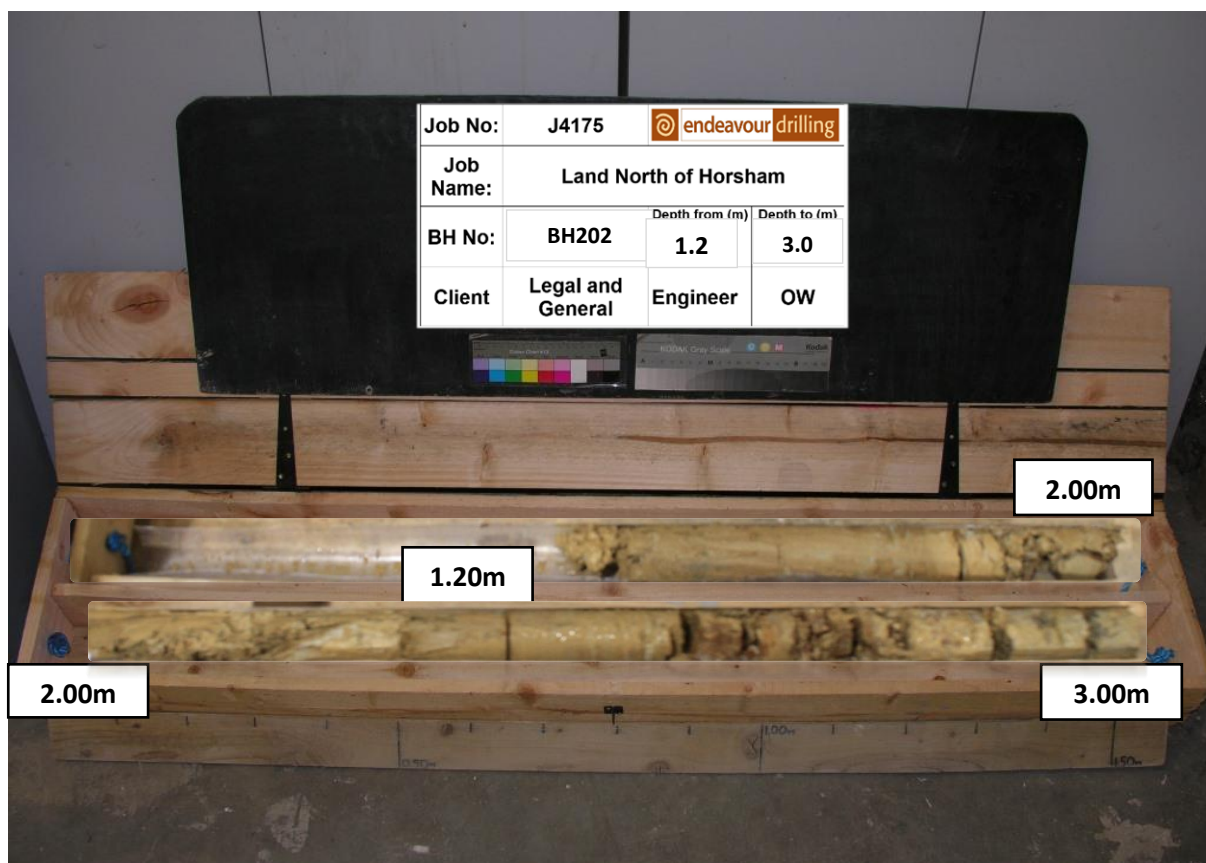


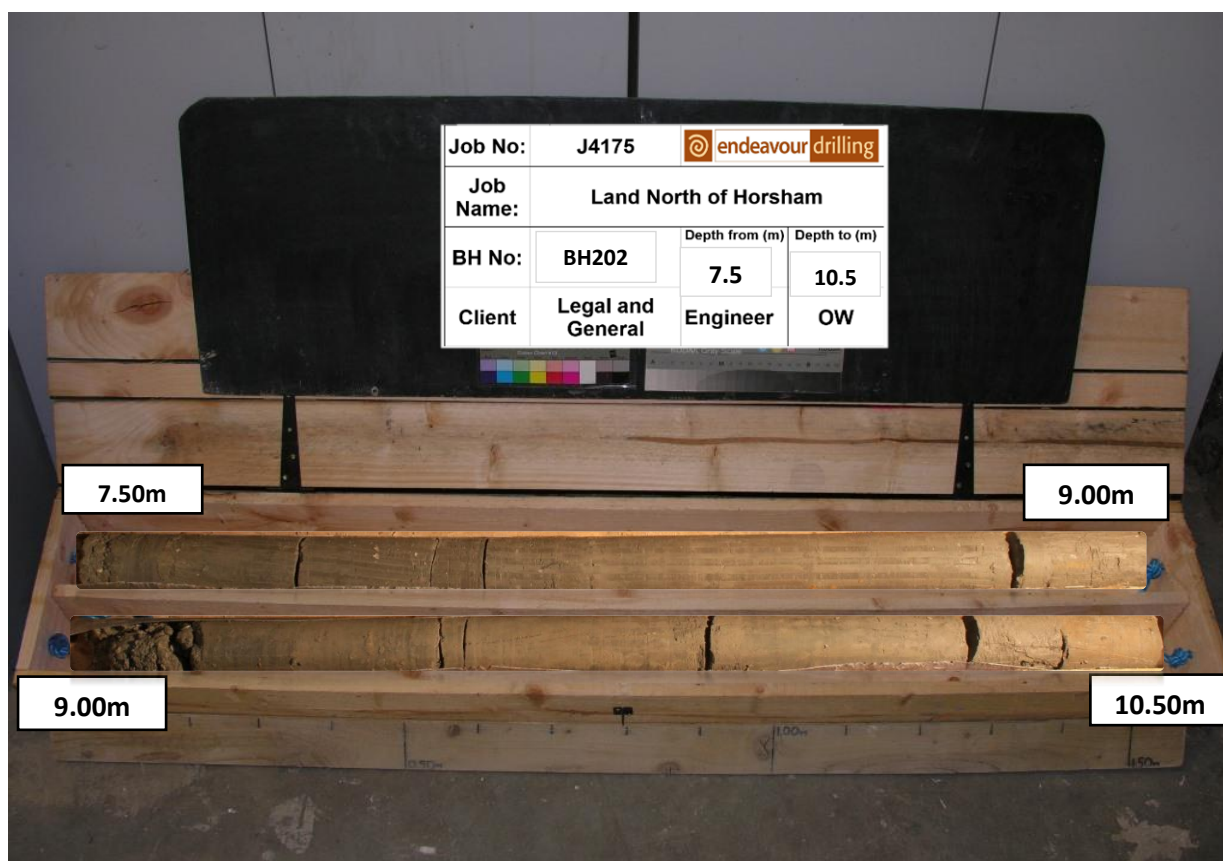
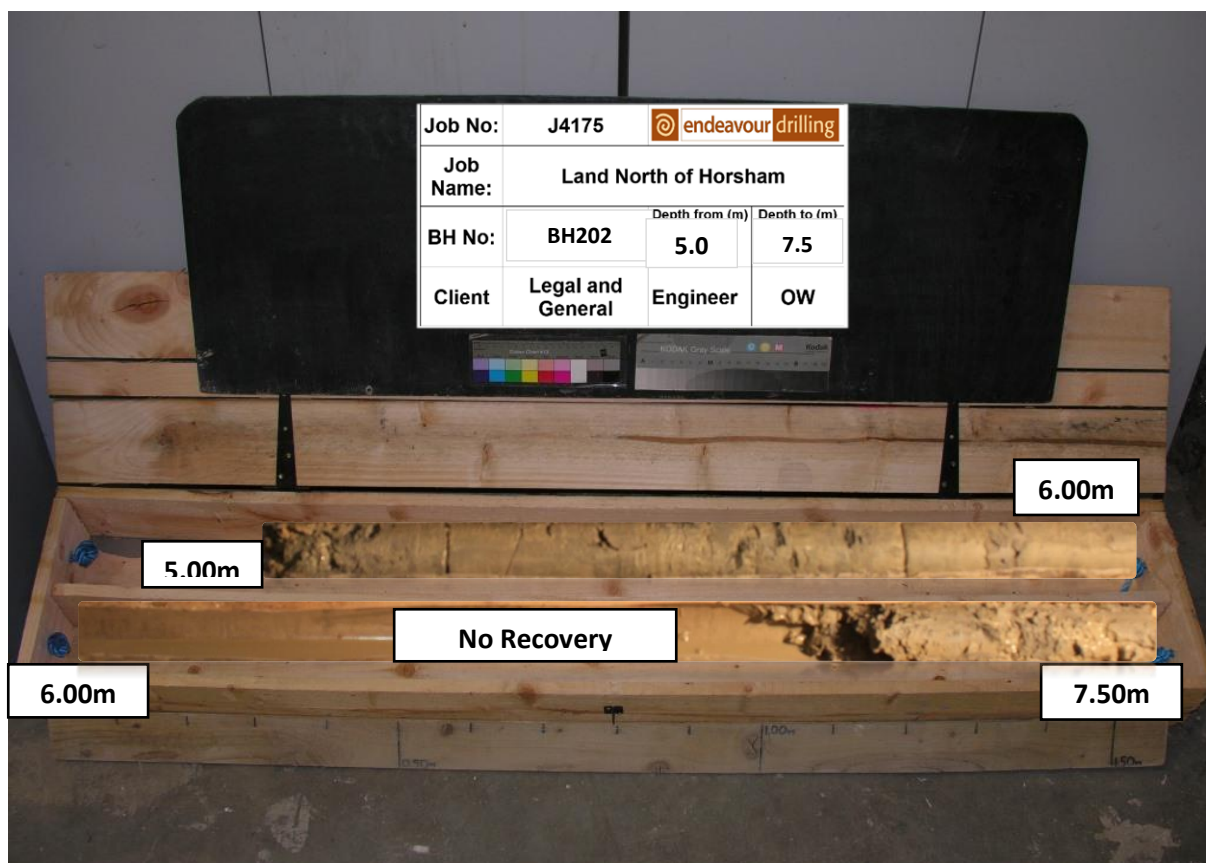


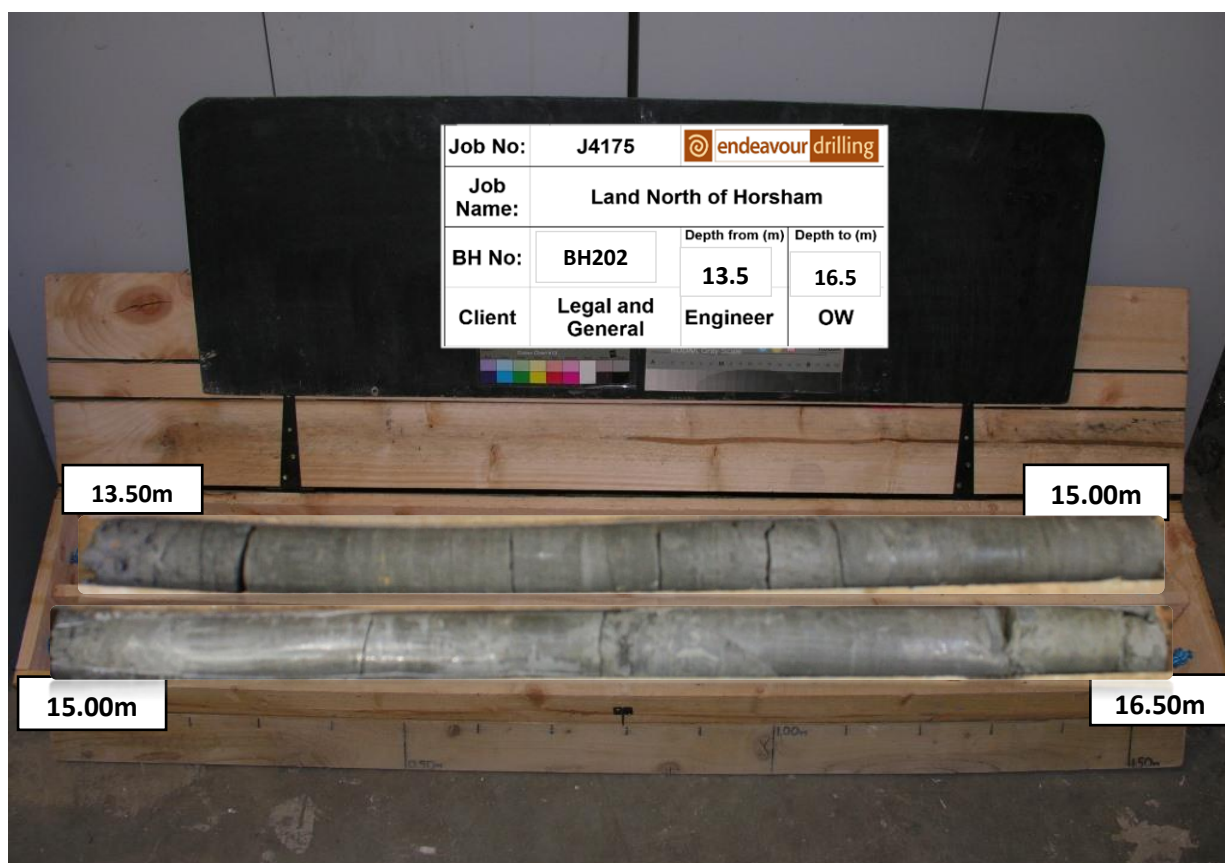
					Contract Name: P1, Land North of Horsham, West Sussex			Client: Legal and General (Strategic Land North of Horsham) Ltd			Borehole ID: BH202										
					Contract Number: J4175		Date Started: 03/12/2019		Logged By: OW		Checked By: MJS		Status: FINAL								
Geobore 'S' Rotary Drilling Log					Easting: 518551.6		Northing: 133562.9		Ground Level: 52.35mOD		Plant Used: Commacchio 205		Print Date: 21/02/2020		Sheet 1 of 3		Scale: 1:50				
Weather:					Termination: Reached target depth					SPT Hammer: SPT5 Energy Ratio: 65%											
Samples & In Situ Testing										Strata Details										Groundwater	
Depth		TCR	SCR	RQD	FI	Sample	SPT	Level (mAOD)	Legend	Depth (m) (Thickness)	Strata Description					Water Strike	Backfill/ Installation				
1.20 - 2.00		100	10	0	21	0.20 ES1 ES2 0.40 D1 HV 0.40m, 79kPa 0.90 - 1.20 B1 1.00 D2 1.60 - 1.75 C1	SPT(C) 1.20m, N=34 (3,4/5,9,10,10)	51.15		0.25 (0.65)	TOPSOIL - Light brown sandy CLAY, with frequent rootlets. Stiff light greyish brown mottled orangish brown and bluish grey sandy CLAY. (RESIDUAL WEALD CLAY FORMATION)					1					
						0.90 (0.30)				1.20								Stiff light brown mottled light brownish grey and dark orangish brown sandy CLAY, with frequent extremely weak to very weak fine to coarse angular to subangular mudstone lithorelics. (DESTRUCTURED WEALD CLAY FORMATION)			
2.00 - 3.00		100	57	15	16	2.40 - 2.47 C2	SPT(C) 2.00m, 100 (6,9/100 for 150mm)	50.05		2.30	Very stiff slightly sandy to light brown mottled light grey and orangish brown CLAY, thickly interbedded with extremely weak to very weak light grey weathered dark orangish brown mudstone. Fractures are drilling induced to weakness of rock. (DISTINCTLY WEALD CLAY FORMATION)					2					
										(2.05)								Extremely weak to very weak thinly laminated to thinly bedded light grey and light brown MUDSTONE. Fractures are horizontal, extremely closely to closely spaced (19 - 150mm) planar with rough surfaces. Apertures are partly open to moderately wide and clean. Weathering is dark orangish brown penetrating <15mm on fractured surfaces. (DISTINCTLY TO PARTIALLY WEATHERED WEALD CLAY FORMATION)			
3.00 - 4.00		80	30	0	10	3.92 - 4.00 C3	SPT(C) 3.00m, 100 (6,18/100 for 150mm)	48.00			4.35	...between 3.00 - 4.00mbgl with frequent bands recovered as very stiff light grey mottled dark orangish brown sandy clay. Fractures are horizontal, very closely to closely spaced (20 - 70mm) planar with rough surfaces. Apertures are moderately wide and clean. ...between 4.00 - 4.35mbgl recovered as slightly sandy clay.					3				
										(3.15)	Very weak to weak thinly to thickly laminated MUDSTONE with rare bands recovered as very stiff silty clay. Fractures are horizontal, very closely to closely spaced (40 - 170mm) planar with rough and smooth surfaces. Apertures are moderately wide to wide open with occasional clay infill. (UNWEATHERED WEALD CLAY FORMATION)										
4.00 - 5.00		100	60	37	9	4.73 - 4.88 C4	SPT(C) 4.00m, N=74 (10,12/10,12,22, 30)	44.85				7.50	...between 5.00 - 6.00mbgl fractures are subhorizontal to horizontal, very closely to closely spaced (20 - 150mm) planar with rough and smooth surfaces. Apertures are partly open to moderately wide and clean. ...between 6.00 - 7.20mbgl no recovery.					4			
										(3.15)	Weak thinly to thickly laminated MUDSTONE, with occasional bands of hard silty clay. Fractures are subhorizontal to horizontal. Extremely closely to medium spaced (18 - 340mm) planar with rough surfaces. Apertures are tight to wide and clean. (UNWEATHERED WEALD CLAY FORMATION)										
5.00 - 6.00		100	95	37	9	5.85 - 6.00 C5	SPT(C) 5.00m, 100 (25 for 75mm/100 for 75mm)	44.85				7.50	...between 7.20 - 7.50 recovered as firm dark grey mottled dark orangish brown clay.					5			
										(3.15)	Very weak to weak thinly to thickly laminated MUDSTONE, with occasional bands of hard silty clay. Fractures are subhorizontal to horizontal. Extremely closely to medium spaced (18 - 340mm) planar with rough surfaces. Apertures are tight to wide and clean. (UNWEATHERED WEALD CLAY FORMATION)										
6.00 - 7.50		24	0	0		8.40 - 8.74 C6	SPT(C) 6.00m, 100 (25 for 75mm/100 for 150mm)	44.85				7.50	...between 9.00 - 10.50mbgl fractures are horizontal, very closely to medium spaced (30 - 320mm) planar with rough surfaces. Apertures are tight					6			
										(3.15)	Weak thinly to thickly laminated MUDSTONE, with occasional bands of hard silty clay. Fractures are subhorizontal to horizontal. Extremely closely to medium spaced (18 - 340mm) planar with rough surfaces. Apertures are tight to wide and clean. (UNWEATHERED WEALD CLAY FORMATION)										
7.50 - 9.00		100	73	67	7	9.18 - 9.52 C7	SPT(C) 7.50m, 100 (25 for 75mm/100 for 150mm)	44.85				7.50	...between 9.00 - 10.50mbgl fractures are horizontal, very closely to medium spaced (30 - 320mm) planar with rough surfaces. Apertures are tight					7			
										(3.15)	Weak thinly to thickly laminated MUDSTONE, with occasional bands of hard silty clay. Fractures are subhorizontal to horizontal. Extremely closely to medium spaced (18 - 340mm) planar with rough surfaces. Apertures are tight to wide and clean. (UNWEATHERED WEALD CLAY FORMATION)										
9.00 - 10.50		95	80	78	5																
										(3.15)	Weak thinly to thickly laminated MUDSTONE, with occasional bands of hard silty clay. Fractures are subhorizontal to horizontal. Extremely closely to medium spaced (18 - 340mm) planar with rough surfaces. Apertures are tight to wide and clean. (UNWEATHERED WEALD CLAY FORMATION)										
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										(3.15)	Weak thinly to thickly laminated MUDSTONE, with occasional bands of hard silty clay. Fractures are subhorizontal to horizontal. Extremely closely to medium spaced (18 - 340mm) planar with rough surfaces. Apertures are tight to wide and clean. (UNWEATHERED WEALD CLAY FORMATION)										
										(3.15)	Weak thinly to thickly laminated MUDSTONE, with occasional bands of hard silty clay. Fractures are subhorizontal to horizontal. Extremely closely to medium spaced (18 - 340mm) planar with rough surfaces. Apertures are tight to wide and clean. (UNWEATHERED WEALD CLAY FORMATION)										
										(3.15)	Weak thinly to thickly laminated MUDSTONE, with occasional bands of hard silty clay. Fractures are subhorizontal to horizontal. Extremely closely to medium spaced (18 - 340mm) planar with rough surfaces. Apertures are tight to wide and clean. (UNWEATHERED WEALD CLAY FORMATION)										
										(3.15)	Weak thinly to thickly laminated MUDSTONE, with occasional bands of hard silty clay. Fractures are subhorizontal to horizontal. Extremely closely to medium spaced (18 - 340mm) planar with rough surfaces. Apertures are tight to wide and clean. (UNWEATHERED WEALD CLAY FORMATION)										
										(3.15)	Weak thinly to thickly laminated MUDSTONE, with occasional bands of hard silty clay. Fractures are subhorizontal to horizontal. Extremely closely to medium spaced (18 - 340mm) planar with rough surfaces. Apertures are tight to wide and clean. (UNWEATHERED WEALD CLAY FORMATION)										
										(3.15)	Weak thinly to thickly laminated MUDSTONE, with occasional bands of hard silty clay. Fractures are subhorizontal to horizontal. Extremely closely to medium spaced (18 - 340mm) planar with rough surfaces. Apertures are tight to wide and clean. (UNWEATHERED WEALD CLAY FORMATION)										

	Contract Name: P1, Land North of Horsham, West Sussex				Client: Legal and General (Strategic Land North of Horsham) Ltd			Borehole ID: BH202						
	Contract Number: J4175		Date Started: 03/12/2019		Logged By: OW		Checked By: MJS		Status: FINAL					
	Easting: 518551.6		Northing: 133562.9		Ground Level: 52.35mOD		Plant Used: Commacchio 205		Print Date: 21/02/2020					
Geobore 'S' Rotary Drilling Log								Scale: 1:50						
Weather:				Termination: Reached target depth				SPT Hammer: SPT5 Energy Ratio: 65%						
Samples & In Situ Testing						Strata Details				Groundwater				
Depth	TCR	SCR	RQD	FI	Sample	SPT	Level (mAOD)	Legend	Depth (m) (Thickness)	Strata Description	Water Strike	Backfill/Installation		
10.50 - 12.00	140	114	108	5	11.00 - 11.43 C8	SPT(C) 10.50m, 100 (25 for 75mm/100 for 75mm)				...between 10.50 to 12.0m fractures ar horizontal to sub-horizontal very closely to medium spaced (25-43mm) with rough and smooth surfaces. Apertures are tight to wide and clean.	11			
12.00 - 13.50	97	85	110	11	12.48 - 12.58 C9	SPT(C) 12.00m, 100 (25 for 75mm/100 for 75mm)			(10.8 8)	...between 12.0 and 13.0m fractures are horizontal to sub-vertical very closely to closely spaced (25-110mm) with rough and smooth surfaces. Apertures are tight to wide with occasional clay infilling. ...at 12.45m with smooth polished fractured surface.	12			
13.50 - 15.00	143	130	80	8	14.67 - 14.93 C10	SPT(C) 13.50m, 100 (25 for 75mm/100 for 75mm)				between 13.50 and 15m fractures are horizontal to sub-horizontal very closely to medium spaced (40-38mm) planar with rough to smooth surfaces. Apertures are tight to moderately wide with rare clay infilling.	14			
15.00 - 16.50	150	118	98	6	15.94 - 16.25 C11	SPT(C) 15.00m, 100 (25 for 75mm/100 for 75mm)				...between 15.0 and 16.50m are horizontal to sub-vertical very closely to medium spaced (20-29mm) planar with rough surfaces. Apertures are tight to wide and occasionally infilled with stiff clay. ...at 15.94m fracture is smooth and polished surface.	15			
16.50 - 18.00	135	82	49	10	16.74 - 17.04 C12	SPT(C) 16.50m, 100 (25 for 75mm/100 for 150mm)				...between 16.50 and 18.0m fractures are horizontal to sub-vertical very closely to medium spaced (30-29mm) planar with rough and smooth surfaces. Apertures are tight to moderately wide with occasional clay infill and rare mudstone gravel infill.	17			
18.00 - 19.50	142	105	48	12	18.50 - 18.67 C13	SPT(C) 18.00m, 100 (25 for 75mm/100 for 75mm)	33.97		18.38	Moderately weak to medium strong light grey and yellowish brown thinly laminated to very thinly bedded fine grained SANDSTONE with occasional bands recovered as angular to sub-angular fine to coarse gravel. Fractures are horizontal extremely closely to closely spaced (10-140mm) planar with smooth surfaces. Apertures are open to moderately wide and clean. (UNWEATHERED WEALD CLAY FORMATION)	18			
				12		SPT(C) 19.50m, 100 (22,3/100 for 75mm)	33.46		18.89	Weak thinly laminated to thickly laminated MUDSTONE with occasional bands of hard silty	19			
							32.85		19.50		20			
Start & End of Shift Observations						Borehole Diameter		Casing Diameter		Remarks:				
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	1. Inspection pit hand excavated to 1.20mbgl. 2. Rotary cored with PWF and water flush to 19.5mbgl. 3. Ground water encountered at 0.90mbgl (perched). 4. 50mm monitoring well installed to 7.0mbgl on completion.					
03-12-2019	16:00	7.50	1.50	2.91										
04-12-2019	16:00	16.50	1.50	2.52										
05-12-2019	16:00	19.50	1.50	2.85										
Flush Information						Installation		Water Strikes						
Top (m)	Base (m)	Flush Type	Return	Flush Colour	Top (m)	Base (m)	Type	Dia (mm)	Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
					0.00	1.00	PLAIN	50	0.90			0		Perched
					1.00	7.00	SLOTTED	50						
Fracture spacing reported as Index average over 1m. TCR, SCR and RQD reported in %														
HBSI RC Issue Number: 1 Issue Date: 21/04/2017 Author: CG														

		Contract Name: P1, Land North of Horsham, West Sussex			Client: Legal and General (Strategic Land North of Horsham) Ltd			Borehole ID: BH202						
		Contract Number: J4175	Date Started: 03/12/2019	Loggged By: OW	Checked By: MJS	Status: FINAL	Sheet 3 of 3							
Geobore 'S' Rotary Drilling Log		Easting: 518551.6	Northing: 133562.9	Ground Level: 52.35mOD	Plant Used: Commacchio 205	Print Date: 21/02/2020	Scale: 1:50							
Weather:			Termination: Reached target depth			SPT Hammer: SPT5 Energy Ratio: 65%								
Samples & In Situ Testing						Strata Details			Groundwater					
Depth	TCR	SCR	RQD	FI	Sample	SPT	Level (mAOD)	Legend	Depth (m) (Thickness)	Strata Description	Water Strike	Backfill/ Installation		
										clay. Fractures are horizontal very closely to closely spaced (30-100mm) planar with rough and smooth surfaces. Apertures are open to moderately wide with occasional clay infill. (UNWEATHERED WEALD CLAY FORMATION) End of Borehole at 19.50m				
											21			
											22			
											23			
											24			
											25			
											26			
											27			
											28			
											29			
											30			
Start & End of Shift Observations					Borehole Diameter		Casing Diameter		Remarks:					
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	1. Inspection pit hand excavated to 1.20mbgl. 2. Rotary cored with PWF and water flush to 19.5mbgl. 3. Ground water encountered at 0.90mbgl (perched). 4. 50mm monitoring well installed to 7.0mbgl on completion.					
03-12-2019	16:00	7.50	1.50	2.91										
04-12-2019	16:00	16.50	1.50	2.52										
05-12-2019	16:00	19.50	1.50	2.85										
Flush Information					Installation				Water Strikes					
Top (m)	Base (m)	Flush Type	Return	Flush Colour	Top (m)	Base (m)	Type	Dia (mm)	Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
					0.00	1.00	PLAIN	50	0.90			0		Perched
					1.00	7.00	SLOTTED	50	Fracture spacing reported as Index average over 1m. TCR, SCR and RQD reported in %					
HBSI RC Issue Number: 1 Issue Date: 21/04/2017 Author: CG														



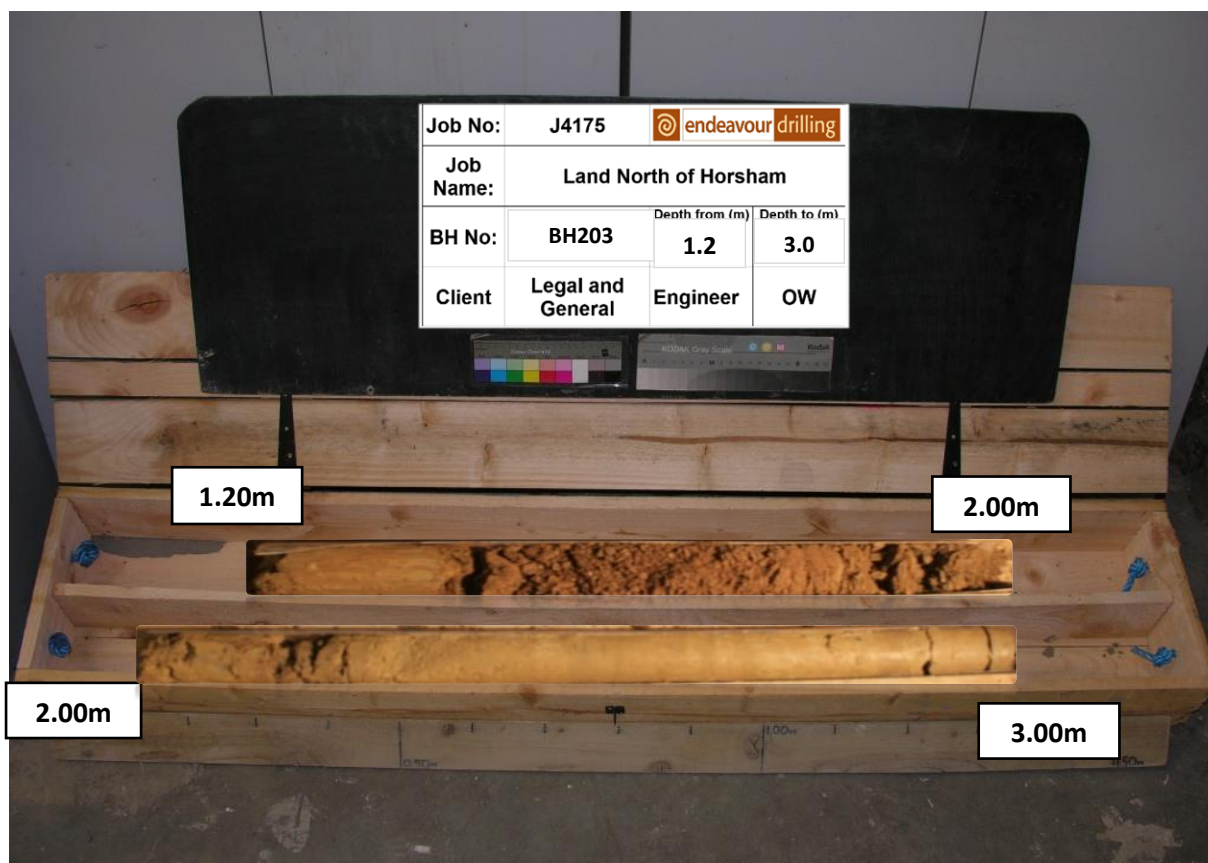


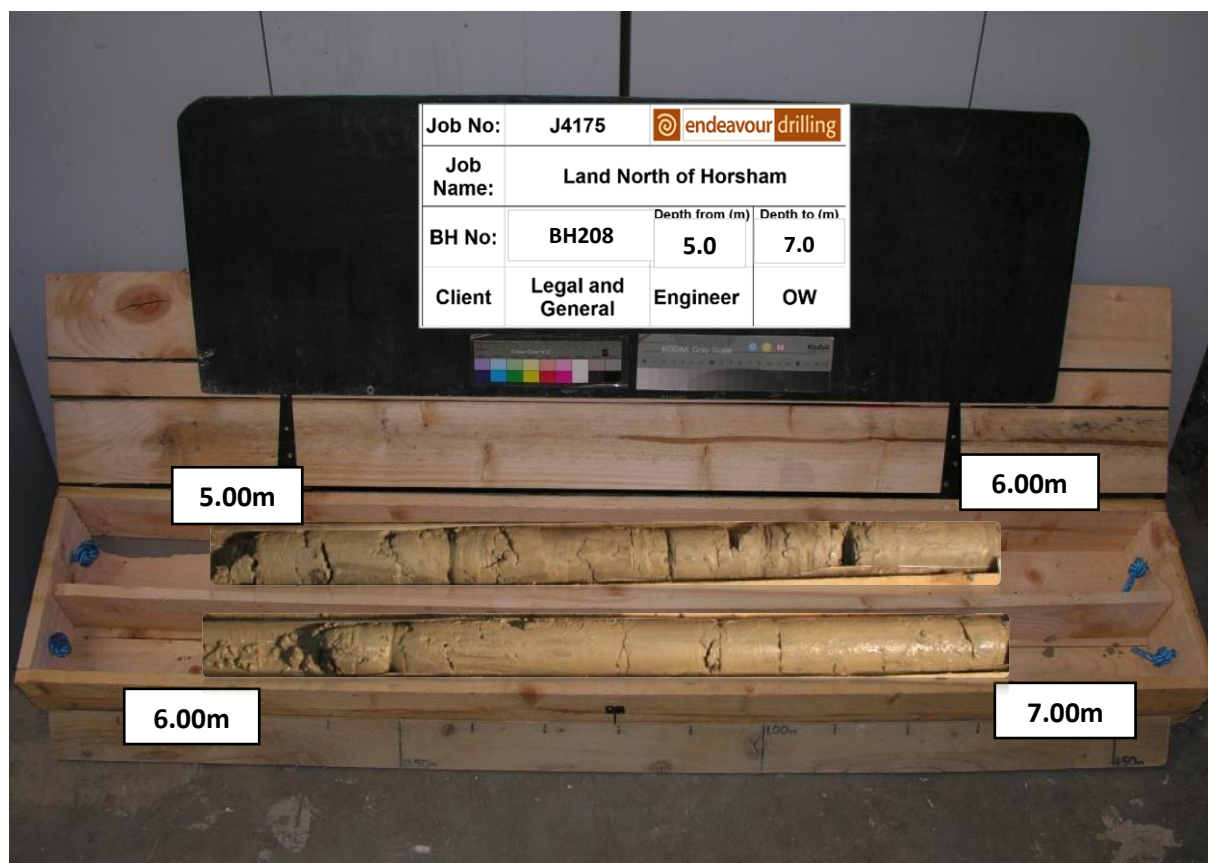


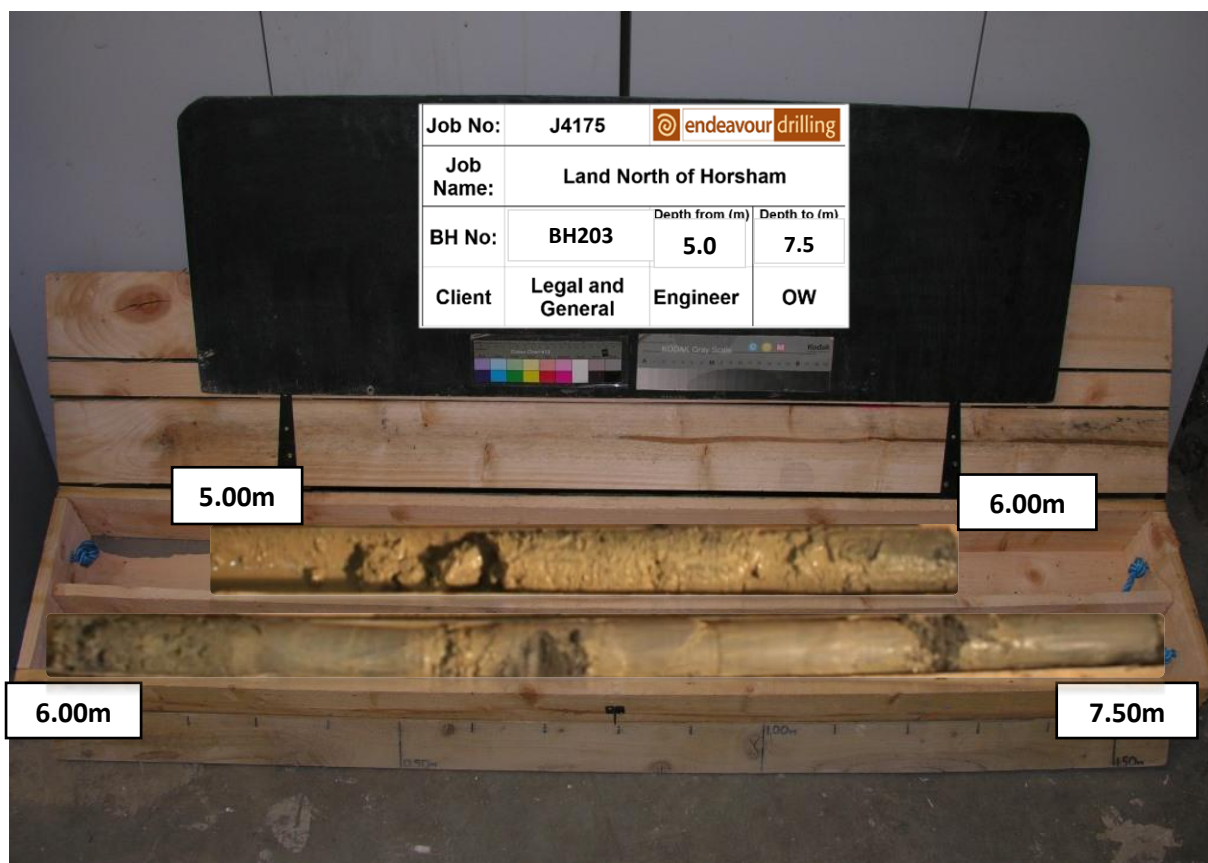


		Contract Name: P1, Land North of Horsham, West Sussex			Client: Legal and General (Strategic Land North of Horsham) Ltd			Borehole ID: BH203						
		Contract Number: J4175	Date Started: 06/12/2019	Logged By: OW	Checked By: MJS	Status: FINAL	Sheet 1 of 2							
Geobore 'S' Rotary Drilling Log		Easting: 518663.6	Northing: 134139.8	Ground Level: 62.05mOD	Plant Used: Comacchio205	Print Date: 21/02/2020	Scale: 1:50							
		Weather: Frequent showers			Termination: Reached target depth		SPT Hammer: SPT5 Energy Ratio: 65%							
Samples & In Situ Testing							Strata Details			Groundwater				
Depth	TCR	SCR	RQD	FI	Sample	SPT	Level (mAOD)	Legend	Depth (m) (Thickness)	Strata Description	Water Strike	Backfill/Installation		
1.20 - 2.00	100	0	0		0.50 ES1	SPT(C) 1.20m, N=29 (2,2/6,7,9,7)	61.85		0.20	TOP SOIL - Dark brown sandy CLAY with frequent rootlets <2mm (living). Firm light brown mottled orangish brown and light grey sandy CLAY. (RESIDUAL WEALD CLAY FORMATION)				
					60.85		1.20							
2.00 - 3.00	100	23	0		1.10 ES2	SPT(C) 2.00m, N=34 (4,6/8,8,8,10)	60.65		1.40	Firm to stiff light brown mottled orangish brown and slight grey slightly silty CLAY. (RESIDUAL WEALD CLAY FORMATION)	1			
					59.65		2.40							
3.00 - 4.00	100	45	0	10	1.80 - 2.00 D1	SPT(C) 3.00m, 100 (8,11/100 for 200mm)	58.75		(1.00)	Very stiff dark brownish orange sandy CLAY thinly laminated with extremely weak dark brown bluish grey mudstone recovered as fine to coarse angular to sub-angular gravel. (DESTRUCTURED WEALD CLAY FORMATION)	2			
					(0.90)				3.30					
4.00 - 5.00	100	30	0	18	2.84 - 2.92 C1	SPT(C) 4.00m, N=74 (10,12/12,12,20,30)	58.05		(0.70)	Stiff light brown mottled orangish brown and light grey slightly sandy CLAY thickly interbedded with extremely weak dark orangish brown and grey mudstone. Fractures are horizontal very closely to closely spaced (50-90-106) planar with rough and smooth surfaces. Apertures are open to moderately wide and clean. (DISTINCTLY WEATHERED WEALD CLAY FORMATION)	3			
					56.05				4.00					
5.00 - 6.00	75	0	0		3.48 - 3.57 C2	SPT(C) 5.00m, 100 (10,13/100 for 285mm)	56.05		(2.00)	Very stiff dark grey and dark orangish brown slightly sandy CLAY thickly interbedded with extremely weak partially weathered to very weak dark grey weathered dark orangish brown thickly laminated mudstone. Fractures are horizontal extremely close to very closely spaced (2-21-60mm) planar with rough and smooth surfaces. Apertures are open to tight wide and clean. Weathering penetrating up to 15mm and distinctly to partially weathered. (DISTINCTLY TO PARTIALLY WEATHERED WEALD CLAY FORMATION)	4			
					6.00				7.00					
6.00 - 7.50	95	69	33	15	4.20 - 4.76 C3	SPT(C) 6.00m, 100 (20,5/100 for 145mm)	6.00		6.00	Very weak to weak dark grey thinly to thickly laminated MUDSTONE with rare bands recovered as very stiff silty clay. Fractures are horizontal to sub-horizontal extremely closely to very closely spaced (3-180-61mm) planar with rough to smooth surfaces. Apertures are tight to open with clay infilling and clean. (UNWEATHERED WEALD CLAY FORMATION)	5			
					6.80				7.50					
7.50 - 9.00	79	77	45	13	5.82 - 6.00 C4	SPT(C) 7.50m, 100 (25 for 75mm/100 for 45mm)	8.00		(6.00)	Very weak to weak dark grey thinly to thickly laminated MUDSTONE with rare bands recovered as very stiff silty clay. Fractures are horizontal to sub-horizontal extremely closely to very closely spaced (3-180-61mm) planar with rough to smooth surfaces. Apertures are tight to open with clay infilling and clean. (UNWEATHERED WEALD CLAY FORMATION)	6			
					8.72				9.00					
9.00 - 10.50	98	65	11	14	6.80 - 6.98 C5	SPT(C) 9.00m, 100 (21,4/100 for 135mm)	9.00		9.00	Very weak to weak dark grey thinly to thickly laminated MUDSTONE with rare bands recovered as very stiff silty clay. Fractures are horizontal to sub-horizontal extremely closely to very closely spaced (3-180-61mm) planar with rough to smooth surfaces. Apertures are tight to open with clay infilling and clean. (UNWEATHERED WEALD CLAY FORMATION)	7			
					9.84				10.00					
9.00 - 10.50					8.72 - 9.00 C6					Very weak to weak dark grey thinly to thickly laminated MUDSTONE with rare bands recovered as very stiff silty clay. Fractures are horizontal to sub-horizontal extremely closely to very closely spaced (3-180-61mm) planar with rough to smooth surfaces. Apertures are tight to open with clay infilling and clean. (UNWEATHERED WEALD CLAY FORMATION)	8			
9.00 - 10.50					9.84 - 10.00 C7					Very weak to weak dark grey thinly to thickly laminated MUDSTONE with rare bands recovered as very stiff silty clay. Fractures are horizontal to sub-horizontal extremely closely to very closely spaced (3-180-61mm) planar with rough to smooth surfaces. Apertures are tight to open with clay infilling and clean. (UNWEATHERED WEALD CLAY FORMATION)	9			
Start & End of Shift Observations						Borehole Diameter		Casing Diameter		Remarks:				
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	1. Inspection pit hand excavated to 1.20mbgl.					
06-12-2019	16:30	4.00			1.20	300								
09-12-2019	16:30	12.00												
Flush Information						Installation		Water Strikes						
Top (m)	Base (m)	Flush Type	Return	Flush Colour	Top (m)	Base (m)	Type	Dia (mm)	Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
					0.00	1.00	PLAIN	50						
					1.00	6.00	SLOTTED	50						
Fracture spacing reported as Index average over 1m. TCR, SCR and RQD reported in %														
HBSI RC Issue Number: 1 Issue Date: 21/04/2017 Author: CG														

	Contract Name: P1, Land North of Horsham, West Sussex				Client: Legal and General (Strategic Land North of Horsham) Ltd			Borehole ID: BH203						
	Contract Number: J4175		Date Started: 06/12/2019		Logged By: OW		Checked By: MJS		Status: FINAL					
	Easting: 518663.6		Northing: 134139.8		Ground Level: 62.05mOD		Plant Used: Comacchio205		Print Date: 21/02/2020					
Geobore 'S' Rotary Drilling Log								Sheet 2 of 2 Scale: 1:50						
Weather: Frequent showers				Termination: Reached target depth			SPT Hammer: SPT5 Energy Ratio: 65%							
Samples & In Situ Testing						Strata Details				Groundwater				
Depth	TCR	SCR	RQD	FI	Sample	SPT	Level (mAOD)	Legend	Depth (m) (Thickness)	Strata Description	Water Strike	Backfill/Installation		
10.50 - 12.00	100	83	37	8	10.90 - 11.20 C8	SPT(C) 10.50m, 100 (25 for 0mm/100 for 10mm)				...between 10.50 to 12.0m fractures are horizontal to sub-horizontal (20-260-93mm extremely closely to medium spaced planar with rough to smooth surfaces. Apertures are tight to open with frequent clay infilling.	11			
						SPT(C) 12.00m, 100 (25 for 0mm/100 for 10mm)	50.05		12.00	End of Borehole at 12.00m	12			
											13			
											14			
											15			
											16			
											17			
											18			
											19			
											20			
Start & End of Shift Observations						Borehole Diameter		Casing Diameter		Remarks:				
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	1. Inspection pit hand excavated to 1.20mbgl.					
06-12-2019	16:30	4.00			1.20	300								
09-12-2019	16:30	12.00												
Flush Information						Installation				Water Strikes				
Top (m)	Base (m)	Flush Type	Return	Flush Colour	Top (m)	Base (m)	Type	Dia (mm)	Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
					0.00	1.00	PLAIN	50						
					1.00	6.00	SLOTTED	50						
Fracture spacing reported as Index average over 1m. TCR, SCR and RQD reported in %														
HBSI RC Issue Number: 1 Issue Date: 21/04/2017 Author: CG														







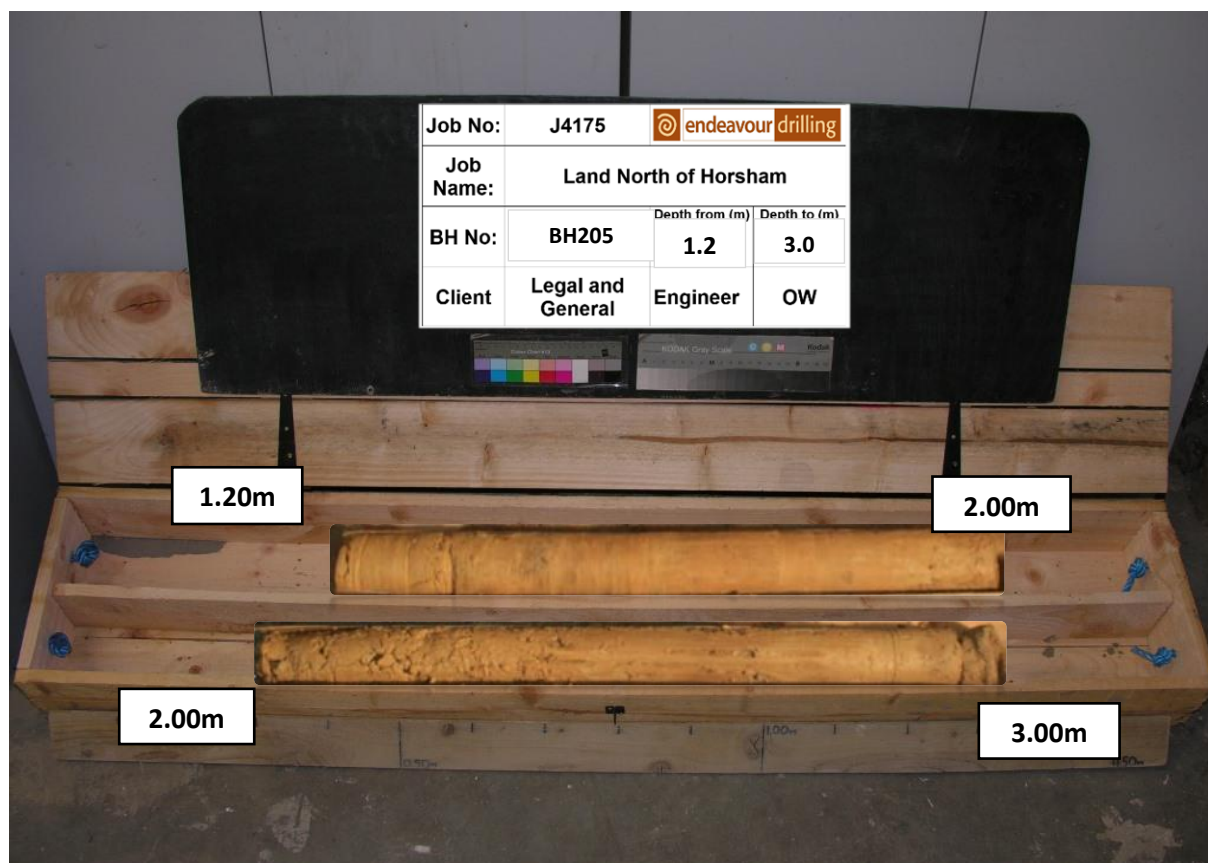


					Contract Name: P1, Land North of Horsham, West Sussex			Client: Legal and General (Strategic Land North of Horsham) Ltd			Borehole ID: BH204		
					Contract Number: J4175	Date Started: 10/12/2019	Logged By: JJW	Checked By: MJS	Status: FINAL				
Geobore 'S' Rotary Drilling Log					Easting: 518910.2	Northing: 134204.0	Ground Level: 69.88mOD	Plant Used: Comacchio205	Print Date: 21/02/2020	Sheet 1 of 1 Scale: 1:50			
Weather: Frequent showers						Termination: Reached target depth.			SPT Hammer: SPT5 Energy Ratio: 65%				
Samples & In Situ Testing							Strata Details					Groundwater	
Depth	TCR	SCR	RQD	FI	Sample	SPT	Level (mAOD)	Legend	Depth (m) (Thickness)	Strata Description	Water Strike	Backfill/ Installation	
1.20 - 2.00	97	0	0		0.50 ES1	SPT(C) 1.20m, N=17 (2,2/3,4,5,5)	69.68		0.20	TOP SOIL - Dark brown sandy CLAY with frequent rootlets <2mm (living). Firm light brown mottled orange and grey silty sandy CLAY. (RESIDUAL WEALD CLAY FORMATION)	1		
					69.08		0.80		Firm light brown mottled orange and grey slightly silty slightly sandy slightly gravelly CLAY. Gravel is fine to medium sub-angular of extremely weak mudstone. (RESIDUAL WEALD CLAY FORMATION)				
2.00 - 3.00	100	20	0		1.20 ES2	SPT(C) 2.00m, N=37 (7,5/6,8,11,12)	68.68		1.20	Stiff light brown mottled orangish brown and light grey slightly sandy CLAY with occasional fine to medium angular to sub-angular extremely weak mudstone. (DESTRUCTURED WEALD CLAY FORMATION)	2		
					1.55 - 1.65 D1		67.48		2.40	Very stiff to hard light greyish brown mottled orangish brown CLAY with rare very thinly bedded extremely weak dark brown mudstone. Weathered blackish brown penetrating up to 22mm recovered as sub-angular coarse gravel. (DESTRUCTURED WEALD CLAY FORMATION)			
3.00 - 4.00	100	30	0		2.80 - 3.00 D2	SPT(C) 3.00m, N=39 (4,6/8,11,9,11)	66.18		(1.30)	Extremely weak to very weak thinly laminated and thinly bedded MUDSTONE. Fractures are horizontal extremely closely to closely spaced (3-90-31mm) planar with rough surfaces. Apertures are tight to open with clay infilling. Weathering is dark orangish brown penetrating up to 21mm along fractured surfaces and also with occasional bands recovered as slightly silty slightly sandy clay. (DISTINCTLY WEATHRED WEALD CLAY FORMATION)	3		
					3.90 - 4.00 C1				3.70				
4.00 - 5.00	100	40	0		4.00 - 4.48 C2	SPT(C) 4.00m, N=42 (9,10/11,10,10,11)	64.38		(1.80)	...between 4.0m to 5.0m fractures are horizontal extremely closely to closely spaced (10-90-33mm) planar with rough surfaces. Apertures are tight to open with clay infilling.	4		
					5.81 - 5.91 C3				5.50				
5.00 - 6.00	100	45	11		SPT(C) 5.00m, 100 (6,16/100 for 225mm)	SPT(C) 6.00m, N=46 (6,7/9,11,12,14)	62.23		7.65	Very weak to weak dark grey thinly to thickly laminated MUDSTONE with occasional bands recovered as very stiff silty clay. Fractures are horizontal extremely closely to closely spaced (5-110-38mm) planar with smooth and rough surfaces. Apertures are open to moderately wide with occasional clay infilling. (UNWEATHRED WEALD CLAY FORMATION)	5		
									6.00 - 7.50	95			57
						SPT(C) 7.50m, N=100 (4,6/14,31,29,26)				End of Borehole at 8.00m	6		
											7		
											8		
											9		
											10		
Start & End of Shift Observations						Borehole Diameter		Casing Diameter		Remarks:			
Date	Time	Depth (m)	Casing (m)	Water (m)		Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	1. Inspection pit hand excavated to 1.20mbgl. 2. water? 3. Dynamic sampled to 3.0mbgl, then rotary cored with PWF and water flush to 8.0mbgl. 4. 50mm monitoring well installed to 6.0mbgl on completion.			
10-12-2019	16:30	5.00											
11-12-2019	16:30	8.00								Water Strikes			
Flush Information						Installation				Strike (m) Casing (m) Sealed (m) Time (mins) Rose to (m) Remarks			
Top (m)	Base (m)	Flush Type	Return	Flush Colour		Top (m)	Base (m)	Type	Dia (mm)	Fracture spacing reported as Index average over 1m. TCR, SCR and RQD reported in %			
						0.00	1.00	PLAIN	50				
						1.00	6.00	SLOTTED	50	HBSI RC Issue Number: 1 Issue Date: 21/04/2017 Author: CG			



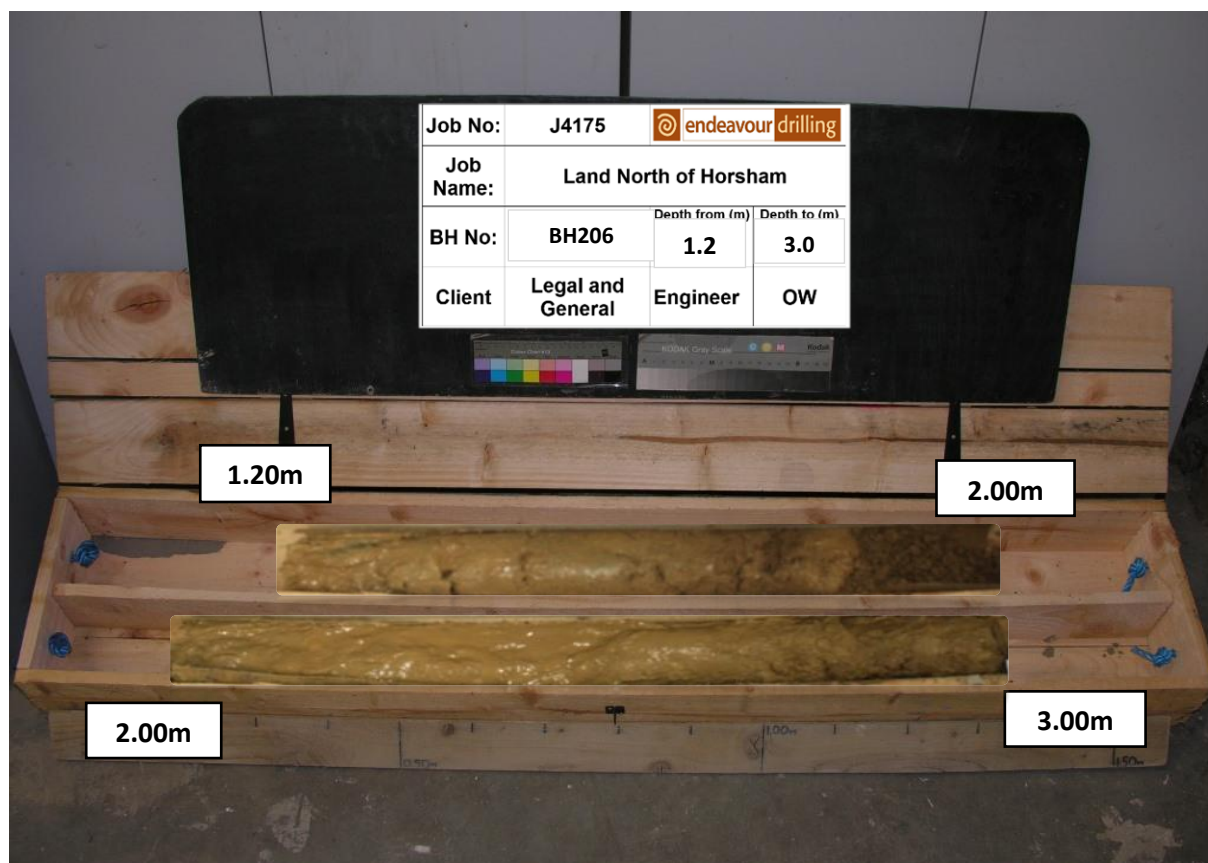


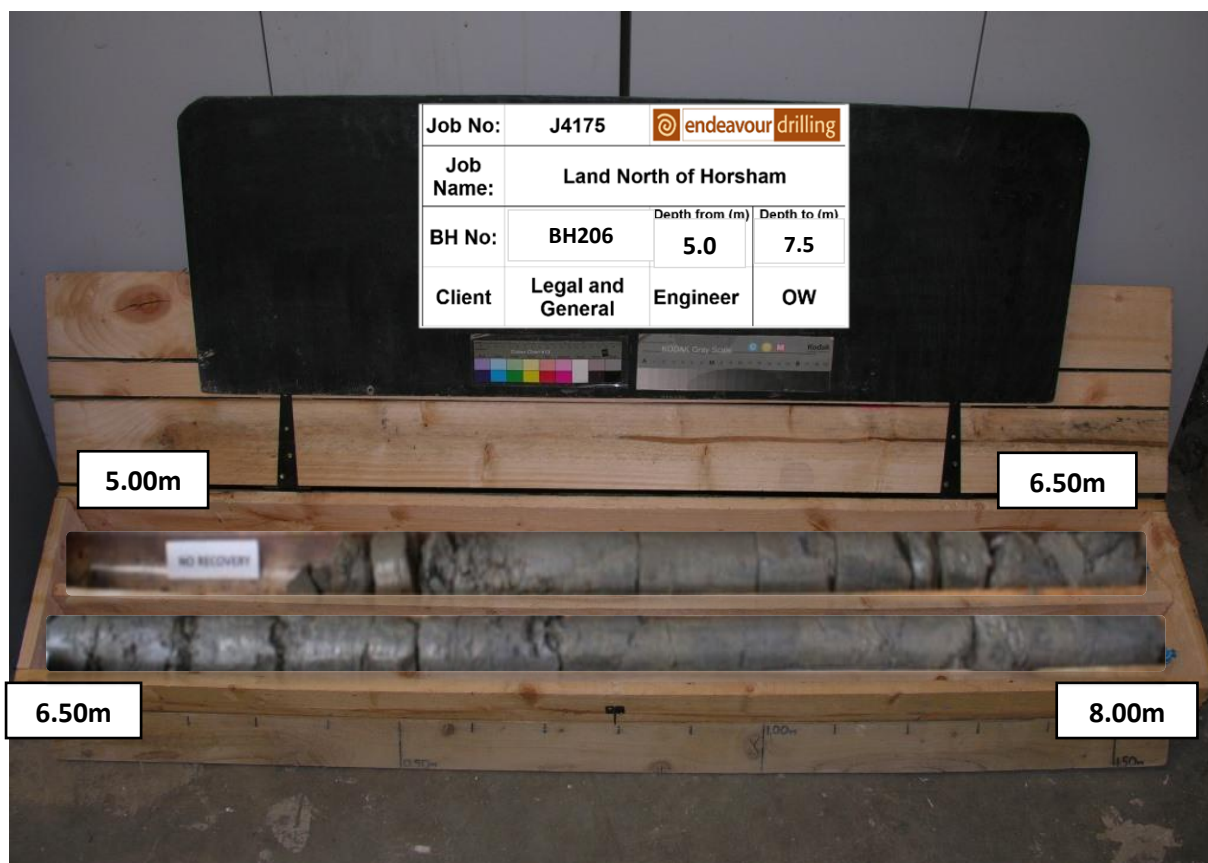
					Contract Name: P1, Land North of Horsham, West Sussex					Client: Legal and General (Strategic Land North of Horsham) Ltd					Borehole ID: BH205	
					Contract Number: J4175		Date Started: 11/12/2019		Logged By: OW		Checked By: MJS		Status: FINAL			
Geobore 'S' Rotary Drilling Log					Easting: 519014.2		Northing: 134092.3		Ground Level: 64.74mOD		Plant Used: Comacchio205		Print Date: 21/02/2020		Sheet 1 of 1	
					Scale: 1:50											
Weather: Frequent showers					Termination: Reached target depth					SPT Hammer: SPT5 Energy Ratio: 65%						
Samples & In Situ Testing										Strata Details					Groundwater	
Depth	TCR	SCR	RQD	FI	Sample	SPT	Level (mAOD)	Legend	Depth (m) (Thickness)	Strata Description					Water Strike	Backfill/ Installation
1.20 - 2.00	100	0	0		0.50 ES1	SPT(C) 1.20m, N=8 (2,2/2,2,2,2)	64.54		0.20	TOP SOIL - Dark brown sandy CLAY with frequent rootlets <2mm (living). Firm light brown mottled orange and grey slightly silty slightly sandy slightly gravelly CLAY. Gravel is fine to medium sub-angular of extremely weak mudstone. (RESIDUAL WEALD CLAY FORMATION) ...from 1.0mbgl with occasional rootlets (living)					1	
					1.20											
2.00 - 3.00	100	0	0		1.20 ES2	SPT(C) 2.00m, N=22 (2,3/4,5,5,8)	63.54		(1.00)	Stiff light brown mottled orangish brown and light grey slightly sandy CLAY. (RESIDUAL WEALD CLAY FORMATION)					2	
					(1.00)											
3.00 - 4.00	100	0	0		1.70 - 2.00 C1	SPT(C) 3.00m, N=42 (3,4/8,8,10,16)	62.54		2.20	Stiff dark brown mottled light grey sandy CLAY, with frequent fine to coarse angular to subangular extremely weak mudstone lithorelics. (RESIDUAL WEALD CLAY FORMATION)					3	
					(2.50)											
4.00 - 5.00	100	30	0	31	2.75 - 3.00 C2	SPT(C) 4.00m, N=100 (10,12/22,34,36,8)	60.04		4.70	...from 3.7mbgl becoming occasional very thinly bedded with extremely weak light grey weathered dark orangish brown mudstone recovered as fine to coarse angular to subangular gravel (DESTRUCTURED)					4	
					(1.60)											
5.00 - 6.00	100	78	23	22	3.80 - 4.00 C3	SPT(C) 5.00m, 100 (5,16/100 for 150mm)	58.44		6.30	Extremely weak to very weak thinly lamiated to thinly bedded dark grey MUDSTONE. Fractures are horizontal extremely closely to closely spaced (3mm - 70mm - 24mm) planar with rough surfaces. Apertures are tight to moderately wide with occasional clay infilling. Weathering dark orangish brown, penetrating <14mm along fractured surfaces, and also with occasional bands recovered as very stiff clay. (DISTINCTLY WEATHERED WEALD CLAY FORMATION) ...between 5.0 - 6.0mbgl fractures are horizontal to subhorizontal extremely closely to closely spaced (3mm - 120mm - 41mm) planar with rough surfaces. Apertures are tight to moderately wide with occasional clay infilling.					5	
					(0.70)											
6.00 - 7.00	100	72	45	12	4.77 - 4.84 C4	SPT(C) 6.00m, 100 (6,18/100 for 75mm)	57.74		7.00	Very weak thinly laminated to thinly bedded dark grey MUDSTONE with rare bands recovered as silty clay. Fractures are horizontal to subhorizontal extremely closely to medium spaced (20mm - 210mm - 77mm) planar with rough and smooth surfaces. Apertures are open to wide with occasional gravel infill. Weathering is dark orange penetrating <20mm along fractured surfaces. (PARTIALLY WEATHERED WEALD CLAY FORMATION)					6	
					(1.00)											
7.00 - 8.00	100	45	0	16	5.67 - 5.79 C5	SPT(C) 7.00m, N=69 (10,12/10,15,21,23)	56.74		8.00	Very stiff dark grey slightly sandy CLAY, thickly interbedded with with very weak dark grey thinly laminated mudstone. Fractures are horizontal very closely to closely spaced (25mm - 90mm - 38mm) planar with rough and smooth surfaces. Apertures are tight to open and clean. (UNWEATHERED WEALD CLAY FORMATION) End of Borehole at 8.00m					7	
					6.80 - 7.00 C6	SPT(C) 8.00m, 100 (3,6/100 for 150mm)									8	
					7.80 - 7.90 C7										9	
															10	
Start & End of Shift Observations					Borehole Diameter			Casing Diameter			Remarks:					
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	1. Inspection pit hand excavated to 1.20mbgl. 2. Rotary cored with PWF and water flush to 8.0mbgl. 3. No ground water encountered. 4. 50mm monitoring well installed to 6.0mbgl on completion.							
11-12-2019	16:00	4.00														
12-12-2019	16:00	8.00														
					Water Strikes											
					Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks						
Flush Information					Installation											
Top (m)	Base (m)	Flush Type	Return	Flush Colour	Top (m)	Base (m)	Type	Dia (mm)								
					0.00	1.00	PLAIN	50								
					1.00	6.00	SLOTTED	50								
Fracture spacing reported as Index average over 1m. TCR, SCR and RQD reported in %																
HBSI RC Issue Number: 1 Issue Date: 21/04/2017 Author: CG																





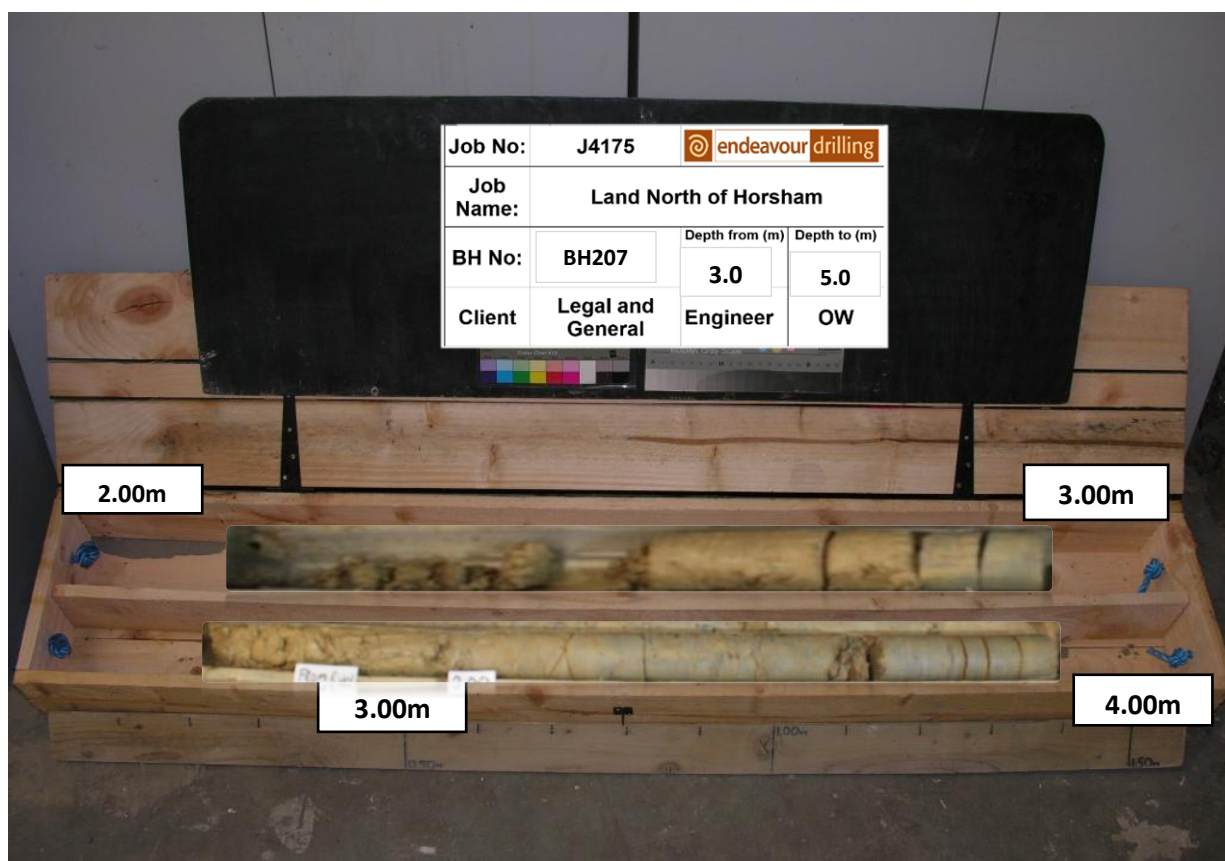
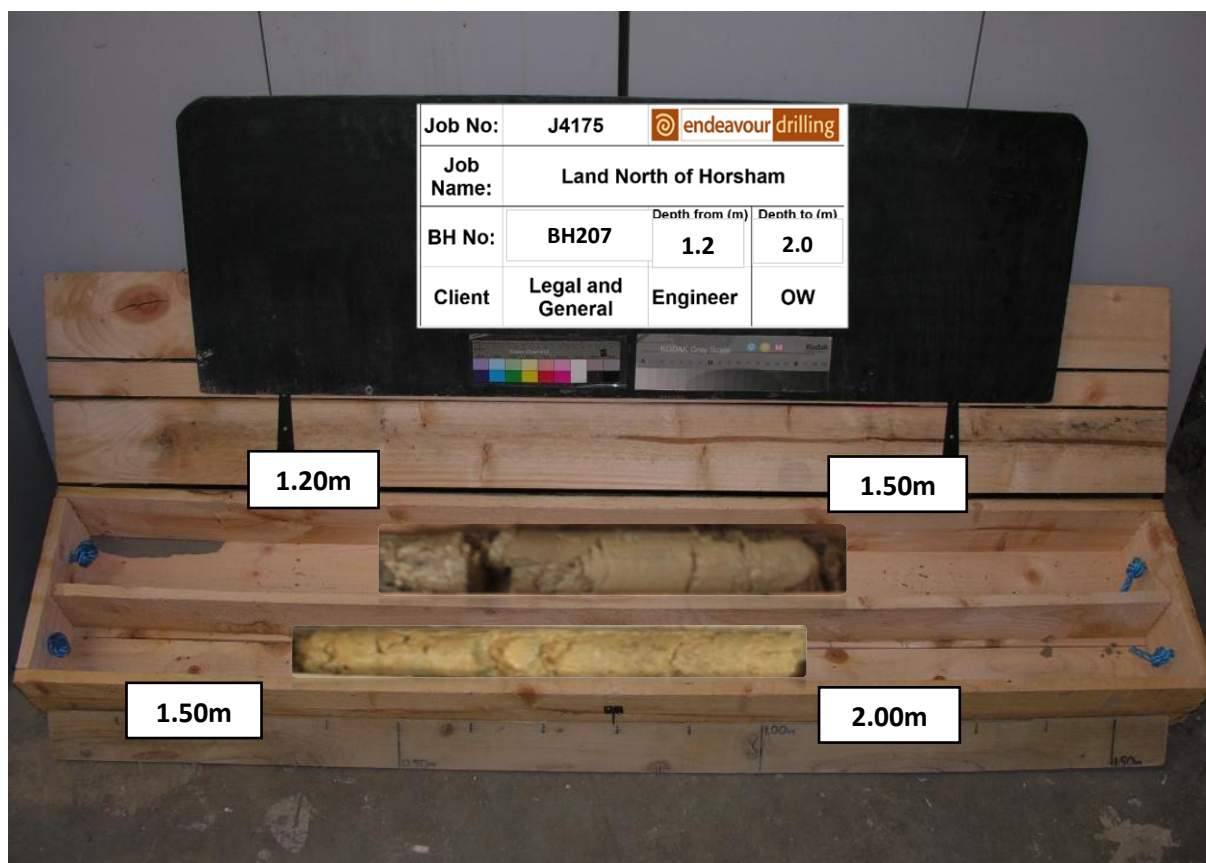
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					P1, Land North of Horsham, West Sussex			Legal and General (Strategic Land North of Horsham) Ltd																												
Geobore 'S' Rotary Drilling Log					Contract Number:		Date Started:		Logged By:		Checked By:		Status:		Sheet 1 of 1																					
					J4175		26/11/2019		OW		MJS		FINAL																							
Easting: 519048.0					Northing: 133482.5		Ground Level: 52.39mOD		Plant Used: Comacchio205		Print Date: 21/02/2020		Scale: 1:50																							
Weather: Showers					Termination: Reached target depth.					SPT Hammer: SPT5 Energy Ratio: 65%																										
Samples & In Situ Testing										Strata Details					Groundwater																					
Depth	TCR	SCR	RQD	FI	Sample	SPT	Level (mAOD)	Legend	Depth (m) (Thickness)	Strata Description				Water Strike	Backfill/Installation																					
3.00 - 4.00	100	5	0		0.20 ES1	SPT(S) 1.20m, N=22 (2,2/2,9,5,6)	52.09		(0.30)	TOPSOIL - Light brown sandy CLAY with frequent rootlets <2mm (living).				1																						
					0.40 D1				(0.90)	Stiff light brown mottled orangish brown and light grey sandy CLAY. (RESIDUAL WEALD CLAY FORMATION)																										
					0.40 ES2																															
					HV 0.50m, 56kPa																															
					HV 0.90m, 32kPa																															
					1.00 D2																															
					1.40 - 1.50 D3																															
					1.80 - 2.00 D4																															
					3.00 - 3.45 UT1																															
					3.55 - 3.78 C1																															
4.00 - 5.00	100	78	50	9		SPT(S) 2.00m, N=28 (6,7/7,6,7,8)	50.59			1.20	Stiff dark brown mottled dark greyish brown sandy CLAY with occasional lenses of light grey silty clay (<9mm thickness) and occasional gravel of fine to medium angular to sub-angular extremely weak to very weak mudstone lithorelics. (RESIDUAL WEALD CLAY FORMATION)				2																					
					2.00				Very weak dark brown MUDSTONE recovered as fine to medium angular to sub-angular gravel. (DISTINCTLY WEATHERED WEALD CLAY FORMATION)																											
					(1.40)				Stiff dark brown sandy CLAY thickly interbedded with extremely weak to very weak dark orangish brown and brown mudstone, recovered as angular to subangular, fine to coarse gravel and rare cobbles. (DISTINCTLY WEATHERED WEALD CLAY FORMATION)																											
					3.40				Very stiff light grey slightly sandy CLAY with occasional light orangish brown staining penetrating up to 6mm thickly interbedded with rare extremely weak light grey mudstone. (DISTINCTLY TO PARTIALLY WEATHERED WEALD CLAY FORMATION)																											
					(0.60)				Very weak thinly laminated to thinly bedded MUDSTONE. With occasional bands recovered as very stiff clay. Fractures are horizontal, closely to medium spaced (35-260-98) planar with rough surfaces. Apertures are partly open to wide and with occasional gravel infilling. Weathering is dark orange and reddish brown penetrating up to 4mm along fractured surfaces. (PARTIALLY WEATHERED WEALD CLAY FORMATION)																											
					5.00				Very weak to weak dark grey thin to thickly laminated MUDSTONE with rare bands recovered as very stiff silty clay. Fractures are horizontal, very closely to closely spaced, (35-150-62) planar with rough and smooth surfaces. Apertures are moderately wide to wide with occasional gravel infilling. (UNWEATHERED WEALD CLAY FORMATION)																											
					(3.00)				...between 5.0m to 5.40mbgl no recovery. ...between 6.50m to 8.00mbgl fractures are horizontal, to subhorizontal extremley closely to closely spaced, (4-190-65) planar with smooth surfaces. Apertures are partly open to moderately wide with occasional clay infilling.																											
					8.00				End of Borehole at 8.30m																											
					9																															
					5.00 - 6.50				71	49	17	12		SPT(S) 4.00m, 113 (11,21/37,30,46,)			48.39		4.00					4												
(1.00)																																				
5.00																																				
(3.00)																																				
8.00																																				
9																																				
10																																				
Start & End of Shift Observations															Borehole Diameter				Casing Diameter				Remarks: 1. Inspection pit hand excavated to 1.20mbgl. 2. Water strike at 1.20mbgl (5mins - 1.10, 10mins - 1.04m, 15mins 0.97m, 20mins 0.96m). 3. Dynamic sampled to 3.0mbgl, then rotary cored with PWF and water flush to 8.0mbgl. 4. 50mm monitoring well installed to 6.0mbgl on completion.													
Date		Time		Depth (m)		Casing (m)		Water (m)					Depth (m)		Dia (mm)				Depth (m)		Dia (mm)															
26-11-2019		16:00		1.80									1.20		300																					
27-11-2019		16:00		4.00						1.80		117																								
28-11-2019		16:00		8.00																																
Flush Information															Installation				Water Strikes																	
Top (m)		Base (m)		Flush Type		Return		Flush Colour		Top (m)		Base (m)		Type		Dia (mm)		Strike (m)		Casing (m)		Sealed (m)		Time (mins)		Rose to (m)		Remarks								
										0.00		1.00		PLAIN		50		1.20						0				Perched								
										1.00		6.00		SLOTTED		50																				
Fracture spacing reported as Index average over 1m. TCR, SCR and RQD reported in %																																				
HBSI RC Issue Number: 1 Issue Date: 21/04/2017 Author: CG																																				

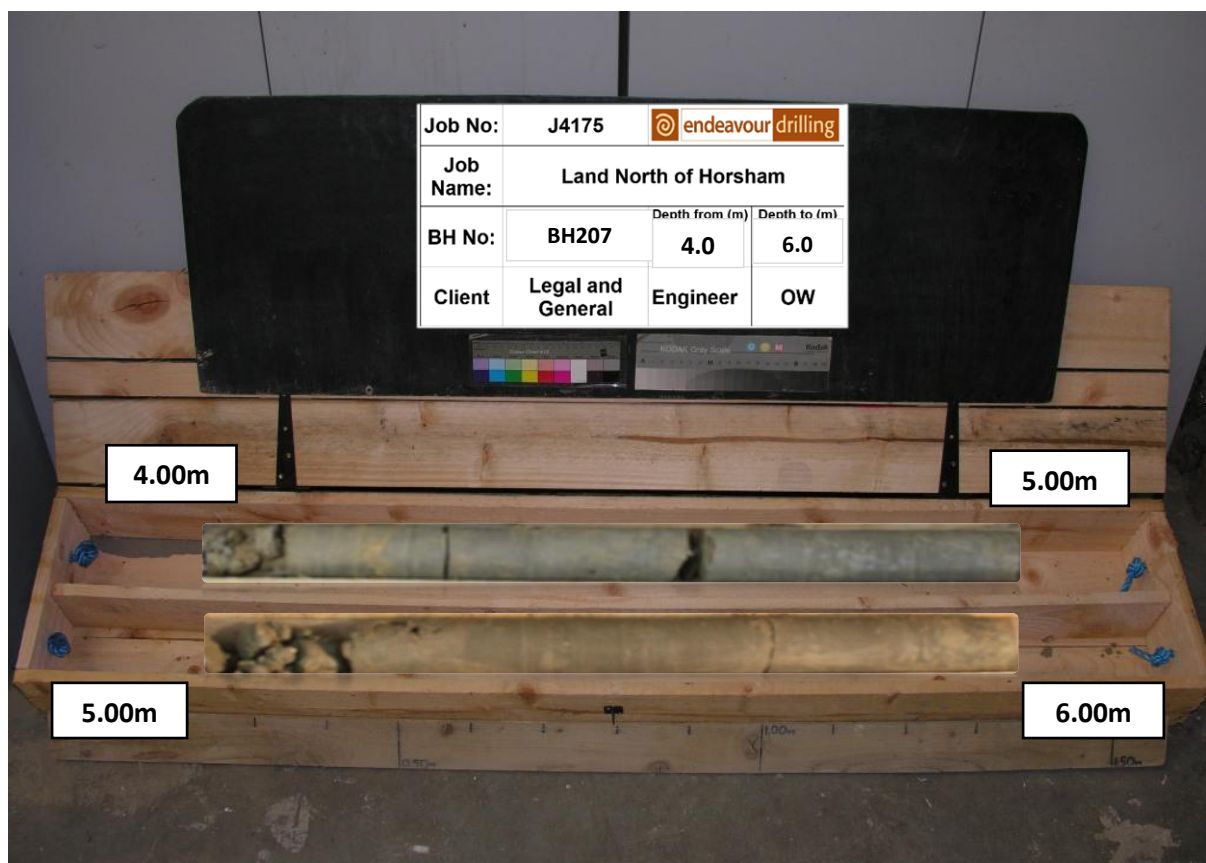


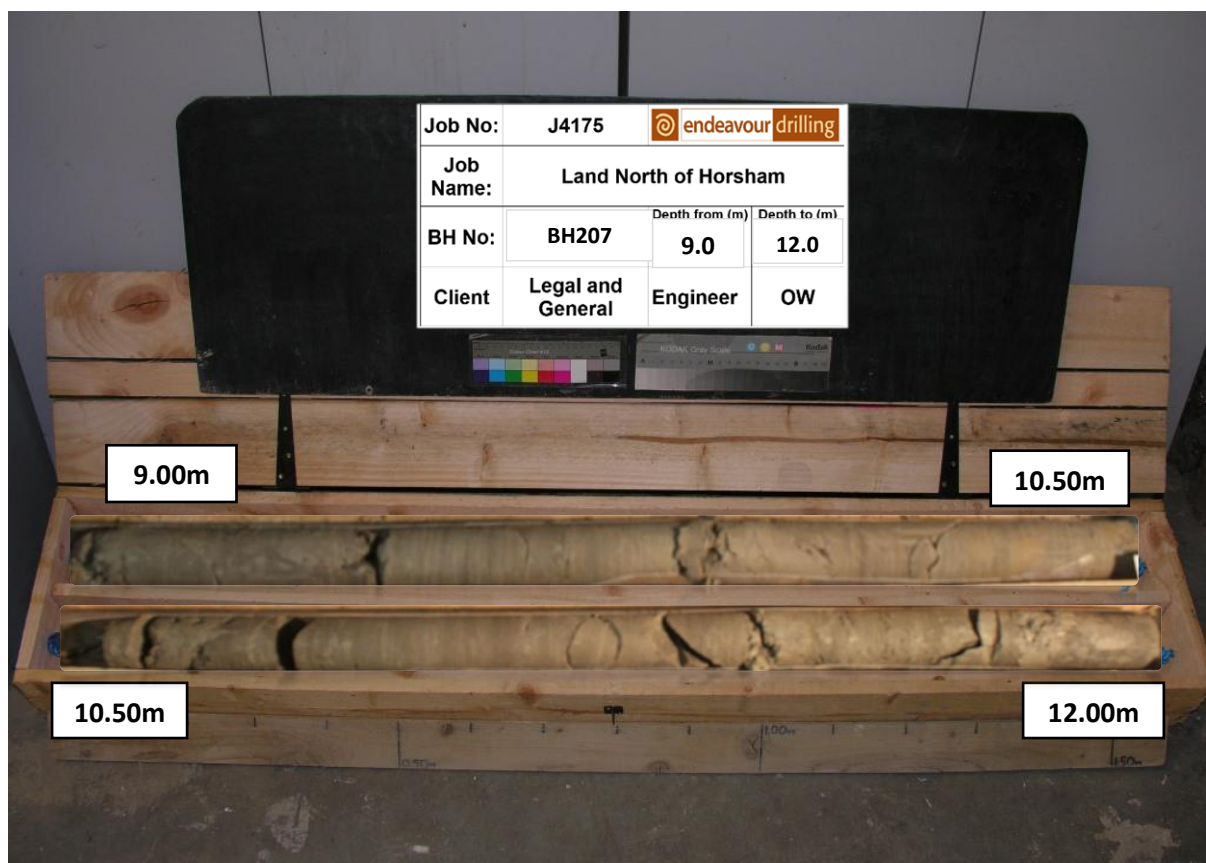


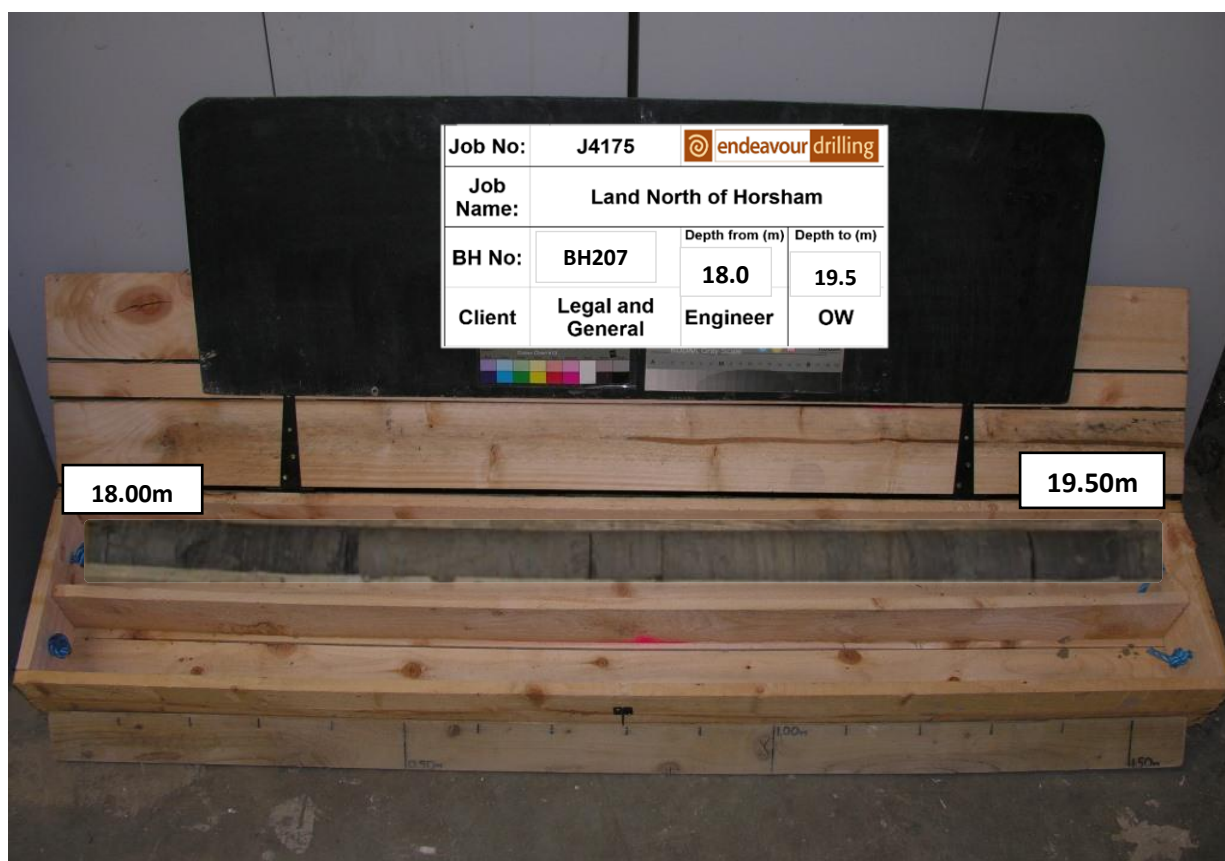
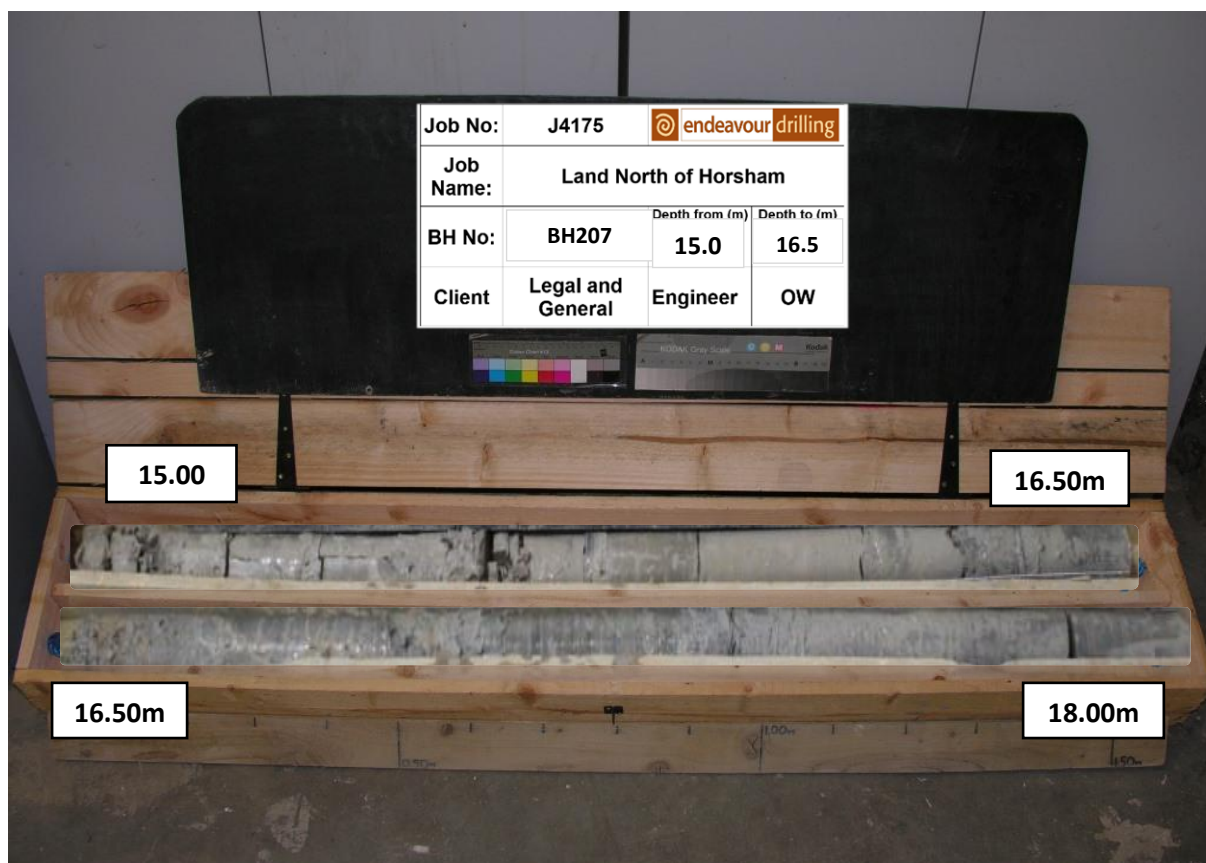
	Contract Name: P1, Land North of Horsham, West Sussex				Client: Legal and General (Strategic Land North of Horsham) Ltd			Borehole ID: BH207						
	Contract Number: J4175		Date Started: 29/11/2019		Logged By: OW		Checked By: MJS		Status: FINAL					
	Easting: 518949.2		Northing: 133461.2		Ground Level: 52.54mOD		Plant Used: Comacchio 205		Print Date: 21/02/2020					
Geobore 'S' Rotary Drilling Log								Scale: 1:50						
Weather: Frequent showers			Termination: Reached target depth.			SPT Hammer: SPT5 Energy Ratio: 65%								
Samples & In Situ Testing						Strata Details				Groundwater				
Depth	TCR	SCR	RQD	FI	Sample	SPT	Level (mAOD)	Legend	Depth (m) (Thickness)	Strata Description	Water Strike	Backfill/Installation		
					0.20 - 0.40 D1		52.09		(0.45)	TOPSOIL - Light brown sandy CLAY with frequent rootlets <2mm (living).				
					0.30 - 0.40 ES1				0.45	Stiff dark brown mottled dark greyish brown sandy CLAY with occasional lenses of light grey silty clay (<9mm thickness) and occasional fine to medium angular to sub-angular extremely weak to very weak mudstone lithorelics. (RESIDUAL WEALD CLAY FORMATION)	1			
					0.80 - 0.90 B1				(0.85)					
					0.80 - 1.20 ES2				1.30					
1.50 - 2.00	100	0	0		1.30 - 1.50 D2		51.24		1.30	Stiff dark brown sandy CLAY with frequent fine to medium angular to sub-angular extremely weak to very weak mudstone lithorelics and rare very thinly bedded extremely weak to very weak dark orangish brown and brown mudstone, recovered as angular to subangular, fine to coarse gravel. (RESIDUAL WEALD CLAY FORMATION)	2			
2.00 - 3.00	65	10	0		1.80 - 2.00 D3	SPT(C) 2.00m, N=81 (9,12/11,14,24,32)			(1.70)	...from 2.50mbgl becoming thickly interbedded with rare extremely weak light grey mudstone.				
					2.90 - 2.95 C1	SPT(C) 3.00m, 103 (28,42/103 for 150mm)	49.54		3.00	Extremely weak to very weak thinly laminated to thinly bedded MUDSTONE with occasional bands recovered as very stiff clay. Fractures are horizontal to subhorizontal, extremely closely to closely spaced (17 - 120 - 57mm) planar with rough surfaces. Apertures are open to moderately wide and clean. Weathering is dark orangish brown penetrating <80mm along fractured surfaces. (PARTIALLY WEATHERED WEALD CLAY FORMATION)	3			
3.00 - 4.00	100	82	12		3.70 - 3.82 C2	SPT(C) 4.00m, 126 (21,41/126 for 150mm)					4			
4.00 - 5.00	87	75	69		4.71 - 5.00 C3	SPT(C) 5.00m, 114 (19,46/114 for 150mm)				...Between 5.0 - 6.0mbgl fractures are horizontal to subhorizontal, very closely spaced to medium spaced (40 - 290 - 146mm) planar with smooth surfaces, apertures are tight to moderately wide and clean	5			
5.00 - 6.00	80	54	41		5.47 - 5.76 C4	SPT(C) 6.00m, 40 (42,62/40 for 75mm)				...between 6.0 - 7.5mbgl fractures are horizontal to subhorizontal, extremely closely to medium spaced (5 - 21 - 69mm) planar with rough and smooth surface, apertures are tight to wide with rare clay infilling.	6			
6.00 - 7.50	100	89	32		6.93 - 7.12 C5	SPT(C) 7.50m, 124 (31,48/124 for 150mm)					7			
7.50 - 9.00	97	81	50		7.61 - 7.89 C6	SPT(C) 9.00m, 73 (60 for 75mm/73 for 75mm)					8			
9.00 - 10.50	100	97	41								9			
											10			
Start & End of Shift Observations						Borehole Diameter		Casing Diameter		Remarks:				
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	1. Inspection pit hand excavated to 1.20mbgl. 2. Dynamic sampled to 1.5mbgl, then rotary cored with PWF and water flush to 1.50mbgl. No ground water encountered 4. 50mm monitoring well installed to 7.0mbgl on completion.					
29-11-2019	16:00	1.50												
17-12-2019	16:30	6.00												
19-12-2019	16:30	15.00												
20-12-2019	00:00	20.00												
Flush Information						Installation		Water Strikes						
Top (m)	Base (m)	Flush Type	Return	Flush Colour	Top (m)	Base (m)	Type	Dia (mm)	Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
					0.00	6.00	PLAIN	19						
					6.00	7.00	SLOTTED	19						
Fracture spacing reported as Index average over 1m. TCR, SCR and RQD reported in %														
HBSI RC Issue Number: 1 Issue Date: 21/04/2017 Author: CG														

	Contract Name: P1, Land North of Horsham, West Sussex				Client: Legal and General (Strategic Land North of Horsham) Ltd			Borehole ID: BH207										
	Contract Number: J4175		Date Started: 29/11/2019		Logged By: OW		Checked By: MJS		Status: FINAL									
	Easting: 518949.2		Northing: 133461.2		Ground Level: 52.54mOD		Plant Used: Comacchio 205		Print Date: 21/02/2020									
Geobore 'S' Rotary Drilling Log								Scale: 1:50										
Weather: Frequent showers				Termination: Reached target depth.				SPT Hammer: SPT5 Energy Ratio: 65%										
Samples & In Situ Testing						Strata Details				Groundwater								
Depth	TCR	SCR	RQD	FI	Sample	SPT	Level (mAOD)	Legend	Depth (m) (Thickness)	Strata Description	Water Strike	Backfill/Installation						
					10.30 - 10.50 C7	SPT(C) 10.50m, 122 (46,61/122 for 150mm)	33.04		(16.50)	...at 11.22mbgl smooth polished surface fracture.	11							
10.50 - 12.00	92	84	19		10.82 - 11.11 C8													
					12.00 - 13.50	SPT(C) 12.00m, 101 (48,42/101 for 130mm)								12	...between 12.0 - 13.5mbgl fractures are horizontal, very closely to medium spaced (38 - 420 - 191mm) planar with rough and smooth surfaces. Apertures are tight to moderately wide and clean.			
					12.84 - 13.32 C9								13					
					13.50 - 15.00	SPT(C) 13.50m, 60 (72 for 75mm/60 for 75mm)								14	...between 13.5 - 15.0mbgl fractures are horizontal, very closely to medium spaced (28 - 400 - 186mm) planar with rough and smooth surfaces. Apertures are tight to moderately wide and clean.			
					14.51 - 14.80 C10								15					
					15.00 - 16.50	SPT(C) 15.00m, 101 (50,48/101 for 150mm)								16	...between 15.0 - 16.5mbgl fractures are horizontal to vertical extremely close to medium spaced (10 - 225 - 108mm) planar and undulating with rough and smooth surfaces. Apertures are tight to moderately wide with occasional clay infilling.			
					15.85 - 16.07 C11								17					
					16.50 - 18.00	SPT(C) 16.50m, 75 (25 for 75mm/75 for 75mm)								18	...between 16.5 - 18.0mbgl fractures are horizontal to vertical very closely to medium spaced (23 - 263 - 120mm) planar with rough and smooth surfaces. Apertures are tight to moderately wide open with rare clay infilling.			
					17.54 - 17.80 C12								19					
					18.00 - 19.50	SPT(C) 18.00m, 77 (31 for 75mm/77 for 75mm)								20	...between 18.0 - 19.5m fractures are horizontal to vertical very closely to medium spaced (27 - 483 - 228mm) planar with rough and smooth surfaces. Apertures are very tight to moderately wide and clean.			
					18.79 - 19.26 C13													
					SPT(C) 19.50m, 82 (29 for 75mm/82 for 40mm)									End of Borehole at 19.50m				
Start & End of Shift Observations					Borehole Diameter								Casing Diameter		Remarks:			
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)							Depth (m)	Dia (mm)	1. Inspection pit hand excavated to 1.20mbgl. 2. Dynamic sampled to 1.5mbgl, then rotary cored with PWF and water flush to 1.50mbgl. No ground water encountered 4. 50mm monitoring well installed to 7.0mbgl on completion.			
29-11-2019	16:00	1.50																
17-12-2019	16:30	6.00																
19-12-2019	16:30	15.00																
20-12-2019	00:00	20.00																
Flush Information					Installation								Water Strikes					
Top (m)	Base (m)	Flush Type	Return	Flush Colour	Top (m)	Base (m)	Type	Dia (mm)	Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks				
					0.00	6.00	PLAIN	19										
					6.00	7.00	SLOTTED	19										
Fracture spacing reported as Index average over 1m. TCR, SCR and RQD reported in %																		
HBSI RC Issue Number: 1 Issue Date: 21/04/2017 Author: CG																		

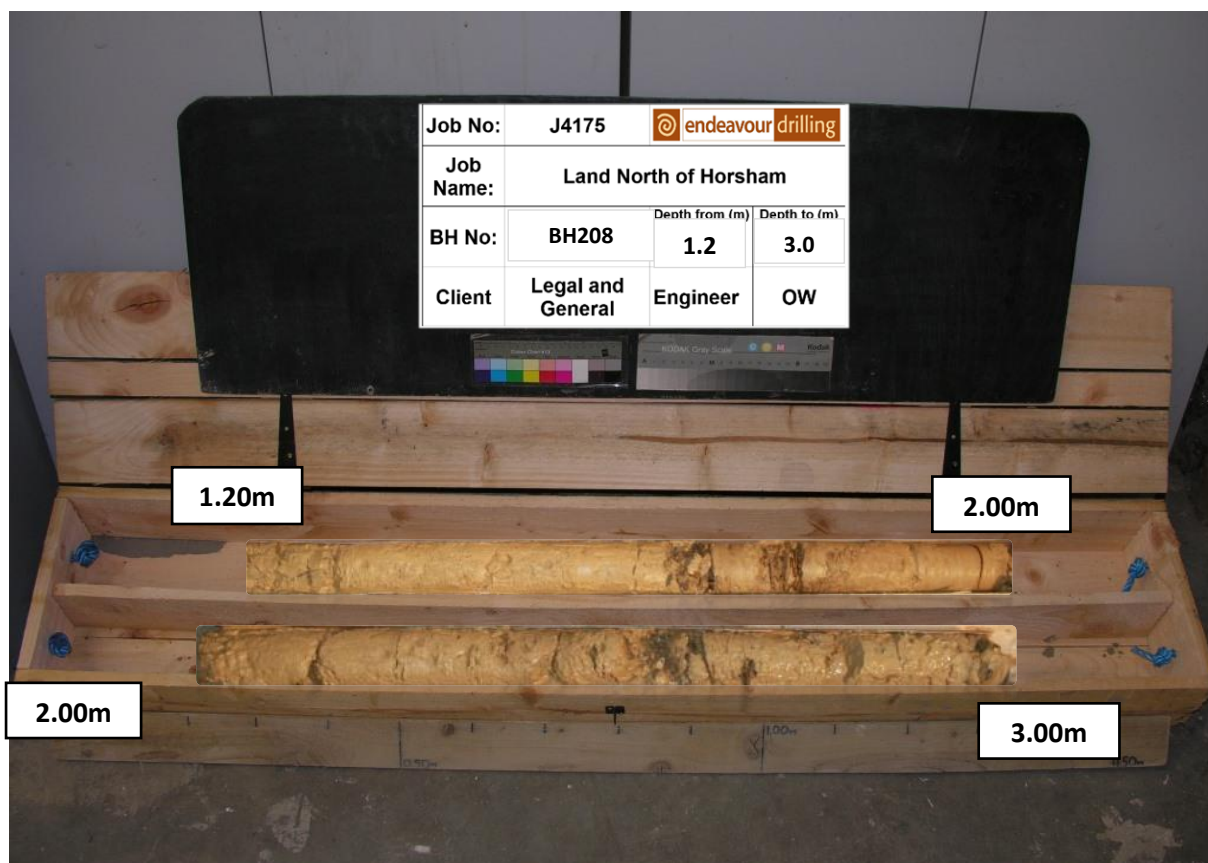


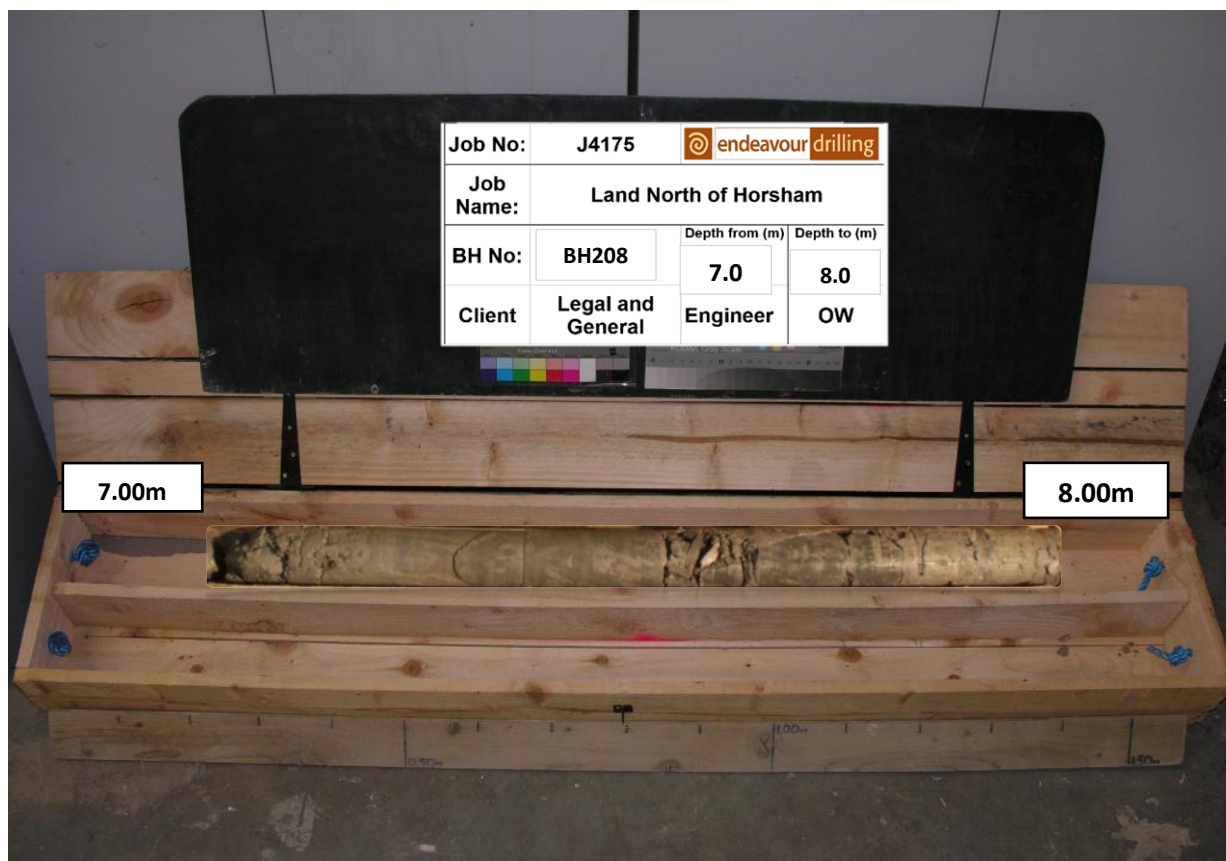






					Contract Name: P1, Land North of Horsham, West Sussex				Client: Legal and General (Strategic Land North of Horsham) Ltd				Borehole ID: BH208			
					Contract Number: J4175		Date Started: 16/12/2019		Logged By: OW		Checked By: MJS				Status: FINAL	
Geobore 'S' Rotary Drilling Log					Easting: 519258.5		Northing: 133671.9		Ground Level: 54.28mOD		Plant Used: Commacchio 205		Print Date: 21/02/2020		Sheet 1 of 1	
					Scale: 1:50											
Weather: Occasional showers					Termination: Reached target depth.					SPT Hammer: SPT5 Energy Ratio: 65%						
Samples & In Situ Testing										Strata Details					Groundwater	
Depth	TCR	SCR	RQD	FI	Sample	SPT	Level (mAOD)	Legend	Depth (m) (Thickness)	Strata Description				Water Strike	Backfill/ Installation	
1.20 - 2.00	100	38	0	70	0.10 ES1	SPT(C) 1.20m, N=100 (4,5/12,22,29,37)	53.98		(0.30)	TOP SOIL - Dark brown slightly gravelly silty sandy CLAY with occasional rootlets <2mm (living). Gravel is fine to medium sub-angular of extremely weak mudstone.				1		
					0.50 B1 ES2											53.68
2.00 - 3.00	100	40	0	63	1.20 B2 ES3	SPT(C) 2.00m, 100 (7,16/55,45,,)	53.08		1.20	(0.40)	Stiff light brown mottled grey slightly sandy gravelly CLAY. Gravel is fine to medium sub-angular of extremely weak mudstone. (RESIDUAL)					
					1.20 B2 ES3							52.68	(1.60)	1.60	(1.40)	Extremely weak dark brown and dark grey thinly laminated MUDSTONE with bands recovered as slightly sandy clay and fine to coarse angular to sub-angular gravel. Fractures are horizontal extremely closely spaced, planar with rough surfaces (2-18mm) Apertures are tight to open and infilled occasional with fine to coarse angular gravel. Weathering is dark orangish and reddish brown penetrating up to 40mm. (DISTINCTLY WEATHERED WEALD CLAY FORMATION)
3.00 - 4.00	100	36	14	24	3.60 - 3.74 C1	SPT(C) 3.00m, N=70 (3,7/7,13,21,29)	51.28		3.00	(1.00)	Very stiff light grey slightly sandy CLAY medium interbedded with extremely weak dark grey thinly laminated mudstone. Fractures are horizontal extremely closely to closely spaced (12 - 14mm). Planar with rough surfaces. Apertures are tight to moderately wide with occasional clay infilling. (DISTINCTLY TO PARTIALLY WEATHERED WEALD CLAY FORMATION)					
					4.00 - 5.00							100	90	0	37	4.70 - 4.79 C2
5.00 - 6.00	100	60	14	23	5.40 - 5.48 C3	SPT(C) 5.00m, 100 (5,9/100 for 170mm)	50.28		5.00	(4.00)	...between 5.0 to 6.0m fractures are horizontal very closely to closely spaced (40-45mm) planar with rough and smooth surfaces. Apertures are open to wide with occasional clay infilling.					
					6.00 - 7.00							100	85	12	6.49 - 6.58 C4	SPT(C) 6.00m, 100 (7,16/100 for 160mm)
7.00 - 8.00	100	90	34	16	7.30 - 7.48 C5	SPT(C) 7.00m, 100 (4,16/100 for 40mm)	50.28		7.00	(4.00)	...below 7.0m becoming very weak to weak. Fractures are horizontal extremely closely to closely spaced (13-180mm) Planar with smooth surfaces. Apertures are open to moderately wide and clean.					
					8.00 - 9.00							100	90	34	8.00	8.00
Start & End of Shift Observations					Borehole Diameter		Casing Diameter		Remarks:							
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	1. Inspection pit hand excavated to 1.20mbgl. 2. Perched groundwater encountered at 0.90mbgl (slow inflow) 3. Dynamic sampled to 3.0mbgl, then rotary cored with PWF and water flush to 8.0mbgl. 4. 50mm monitoring well installed to 6.0mbgl on completion.							
16-12-2019	16:30	3.00														
17-12-2019	16:30	8.00														
Flush Information					Installation		Water Strikes									
Top (m)	Base (m)	Flush Type	Return	Flush Colour	Top (m)	Base (m)	Type	Dia (mm)	Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks		
									0.90			0		Perched, slow inflow.		
Fracture spacing reported as Index average over 1m. TCR, SCR and RQD reported in %																
HBSI RC Issue Number: 1 Issue Date: 21/04/2017 Author: CG																





APPENDIX C

Falling Head Test Results (Borehole)

VARIABLE HEAD PERMEABILITY TEST (BOREHOLE)

CONTRACT: Land North of Horsham

BOREHOLE No.: BH202

TEST No.: 1

DATE: 3-Dec-19

TYPE OF TEST: **FALLING** HEAD

Diameter of casing (D): 150 (mm)
Height of TOP of casing above ground level: 0.00 (m)
Depth to bottom of casing below ground level (m): 1.50 (m) (Withdrawn to impervious layer)
Depth to bottom of borehole below ground level before test: 2.00 (m)
Depth to bottom of borehole below ground level after test: 2.00 (m)
Standing ground water level (mbgl): 0.00 (m) on 3-Dec-19

DATUM: All depths to water level measured from top of casing.

i.e. SWL 2.00 m below datum

TIME ELAPSED (mins)	WATER LEVEL* (m)	HEAD H (m)	HEAD RATIO H/Ho
0	0	2	1.0000
0.5	0.010	1.99	0.9950
1	0.010	1.99	0.9950
1.5	0.010	1.99	0.9950
2	0.010	1.99	0.9950
2.5	0.010	1.99	0.9950
3	0.010	1.99	0.9950
3.5	0.010	1.99	0.9950
4	0.010	1.99	0.9950
4.5	0.010	1.99	0.9950
5	0.010	1.99	0.9950
6	0.010	1.99	0.9950
7	0.010	1.99	0.9950
8	0.010	1.99	0.9950
9	0.010	1.99	0.9950
10	0.010	1.99	0.9950
15	0.010	1.99	0.9950
20	0.010	1.99	0.9950
25	0.010	1.99	0.9950
30	0.010	1.99	0.9950
40	0.010	1.99	0.9950
50	0.010	1.99	0.9950
60	0.010	1.99	0.9950

CALCULATION OF PERMEABILITY OF SOIL:

Employing Hvorslev formula: $k = A/FT$

where:

k is the permeability of soil

A is the cross-section area of borehole casing

F is the intake factor (see below)

T is the basic time lag factor as defined

in Figure 8 of BS 5930:1999 (Page 52)

No assessment possible due to limited fall in water
depth after 60 minutes

VARIABLE HEAD PERMEABILITY TEST (BOREHOLE)

CONTRACT: Land North of Horsham

BOREHOLE No.: BH202

TEST No.: 2

DATE: 3-Dec-19

TYPE OF TEST: **FALLING** HEAD

Diameter of casing (D): 150 (mm)
Height of TOP of casing above ground level: 0.00 (m)
Depth to bottom of casing below ground level (m): 1.50 (m) (Withdrawn to impervious layer)
Depth to bottom of borehole below ground level before test: 4.00 (m)
Depth to bottom of borehole below ground level after test: 4.00 (m)
Standing ground water level (mbgl): 0.00 (m) on 3-Dec-19

DATUM: All depths to water level measured from top of casing.

i.e. SWL 4.00 m below datum

TIME ELAPSED (mins)	WATER LEVEL* (m)	HEAD H (m)	HEAD RATIO H/Ho
0	0	4	1.0000
0.5	0.00	4	1.0000
1	0.00	4	1.0000
1.5	0.00	4	1.0000
2	0.00	4	1.0000
2.5	0.00	4	1.0000
3	0.00	4	1.0000
3.5	0.00	4	1.0000
4	0.00	4	1.0000
4.5	0.00	4	1.0000
5	0.00	4	1.0000
6	0.00	4	1.0000
7	0.00	4	1.0000
8	0.00	4	1.0000
9	0.005	3.995	0.9988
10	0.005	3.995	0.9988
15	0.005	3.995	0.9988
20	0.010	3.99	0.9975
25	0.010	3.99	0.9975
30	0.010	3.99	0.9975
40	0.010	3.99	0.9975
50	0.010	3.99	0.9975
60	0.010	3.99	0.9975

CALCULATION OF PERMEABILITY OF SOIL:

Employing Hvorslev formula: $k = A/FT$

where:

k is the permeability of soil

A is the cross-section area of borehole casing

F is the intake factor (see below)

T is the basic time lag factor as defined

in Figure 8 of BS 5930:1999 (Page 52)

No assessment possible due to limited fall in water
depth after 60 minutes

VARIABLE HEAD PERMEABILITY TEST (BOREHOLE)

CONTRACT: Land North of Horsham

BOREHOLE No.: BH202

TEST No.: 3

DATE: 3-Dec-19

TYPE OF TEST: **FALLING** HEAD

Diameter of casing (D): 150 (mm)
Height of TOP of casing above ground level: 0.00 (m)
Depth to bottom of casing below ground level (m): 1.50 (m) (Withdrawn to impervious layer)
Depth to bottom of borehole below ground level before test: 6.00 (m)
Depth to bottom of borehole below ground level after test: 6.00 (m)
Standing ground water level (mbgl): 0.00 (m) on 3-Dec-19

DATUM: All depths to water level measured from top of casing.

i.e. SWL 6.00 m below datum

TIME ELAPSED (mins)	WATER LEVEL* (m)	HEAD H (m)	HEAD RATIO H/Ho
0	0	6	1.0000
0.5	0.01	5.99	0.9983
1	0.02	5.98	0.9967
1.5	0.03	5.97	0.9950
2	0.05	5.95	0.9917
2.5	0.10	5.9	0.9833
3	0.16	5.84	0.9733
3.5	0.17	5.83	0.9717
4	0.18	5.82	0.9700
4.5	0.19	5.81	0.9683
5	0.21	5.79	0.9650
6	0.23	5.77	0.9617
7	0.24	5.76	0.9600
8	0.25	5.75	0.9583
9	0.27	5.73	0.9550
10	0.28	5.72	0.9533
15	0.35	5.65	0.9417
20	0.34	5.66	0.9433
25	0.36	5.64	0.9400
30	0.37	5.63	0.9383
40	0.40	5.6	0.9333
50	0.41	5.59	0.9317
60	0.42	5.58	0.9300

CALCULATION OF PERMEABILITY OF SOIL:

Employing Hvorslev formula: $k = A/FT$

where:

k is the permeability of soil

A is the cross-section area of borehole casing

F is the intake factor (see below)

T is the basic time lag factor as defined

in Figure 8 of BS 5930:1999 (Page 52)

No assessment possible due to limited fall in water
depth after 60 minutes

VARIABLE HEAD PERMEABILITY TEST (BOREHOLE)

CONTRACT: Land North of Horsham

BOREHOLE No.: BH207

TEST No.: 1

DATE: 3-Dec-19

TYPE OF TEST: **FALLING** HEAD

Diameter of casing (D): 150 (mm)
Height of TOP of casing above ground level: 0.00 (m)
Depth to bottom of casing below ground level (m): 1.50 (m) (Withdrawn to impervious layer)
Depth to bottom of borehole below ground level before test: 2.00 (m)
Depth to bottom of borehole below ground level after test: 2.00 (m)
Standing ground water level (mbgl): 0.00 (m) on 3-Dec-19

DATUM: All depths to water level measured from top of casing.

i.e. SWL 2.00 m below datum

TIME ELAPSED (mins)	WATER LEVEL* (m)	HEAD H (m)	HEAD RATIO H/Ho
0	0	2	1.0000
0.5	0.000	2	1.0000
1	0.000	2	1.0000
1.5	0.000	2	1.0000
2	0.005	1.995	0.9975
2.5	0.005	1.995	0.9975
3	0.005	1.995	0.9975
3.5	0.005	1.995	0.9975
4	0.005	1.995	0.9975
4.5	0.005	1.995	0.9975
5	0.005	1.995	0.9975
6	0.007	1.993	0.9965
7	0.008	1.992	0.9960
8	0.008	1.992	0.9960
9	0.008	1.992	0.9960
10	0.010	1.99	0.9950
15	0.010	1.99	0.9950
20	0.010	1.99	0.9950
25	0.011	1.989	0.9945
30	0.011	1.989	0.9945
40	0.012	1.988	0.9940
50	0.013	1.987	0.9935
60	0.014	1.986	0.9930

CALCULATION OF PERMEABILITY OF SOIL:

Employing Hvorslev formula: $k = A/FT$

where:

k is the permeability of soil

A is the cross-section area of borehole casing

F is the intake factor (see below)

T is the basic time lag factor as defined

in Figure 8 of BS 5930:1999 (Page 52)

No assessment possible due to limited fall in water
depth after 60 minutes

VARIABLE HEAD PERMEABILITY TEST (BOREHOLE)

CONTRACT: Land North of Horsham

BOREHOLE No.: BH207

TEST No.: 2

DATE: 3-Dec-19

TYPE OF TEST: **FALLING** HEAD

Diameter of casing (D): 150 (mm)
Height of TOP of casing above ground level: 0.00 (m)
Depth to bottom of casing below ground level (m): 1.50 (m) (Withdrawn to impervious layer)
Depth to bottom of borehole below ground level before test: 4.00 (m)
Depth to bottom of borehole below ground level after test: 4.00 (m)
Standing ground water level (mbgl): 0.00 (m) on 3-Dec-19

DATUM: All depths to water level measured from top of casing.

i.e. SWL 4.00 m below datum

TIME ELAPSED (mins)	WATER LEVEL* (m)	HEAD H (m)	HEAD RATIO H/Ho
0	0	4	1.0000
0.5	0.030	3.97	0.9925
1	0.035	3.965	0.9913
1.5	0.040	3.96	0.9900
2	0.042	3.958	0.9895
2.5	0.045	3.955	0.9888
3	0.048	3.952	0.9880
3.5	0.052	3.948	0.9870
4	0.055	3.945	0.9863
4.5	0.058	3.942	0.9855
5	0.060	3.94	0.9850
6	0.063	3.937	0.9843
7	0.066	3.934	0.9835
8	0.068	3.932	0.9830
9	0.070	3.93	0.9825
10	0.072	3.928	0.9820
15	0.074	3.926	0.9815
20	0.076	3.924	0.9810
25	0.078	3.922	0.9805
30	0.080	3.92	0.9800
40	0.080	3.92	0.9800
50	0.080	3.92	0.9800
60	0.080	3.92	0.9800

CALCULATION OF PERMEABILITY OF SOIL:

Employing Hvorslev formula: $k = A/FT$

where:

k is the permeability of soil

A is the cross-section area of borehole casing

F is the intake factor (see below)

T is the basic time lag factor as defined

in Figure 8 of BS 5930:1999 (Page 52)

No assessment possible due to limited fall in water
depth after 60 minutes

VARIABLE HEAD PERMEABILITY TEST (BOREHOLE)

CONTRACT: Land North of Horsham

BOREHOLE No.: BH207

TEST No.: 3

DATE: 3-Dec-19

TYPE OF TEST: **FALLING** HEAD

Diameter of casing (D): 150 (mm)
Height of TOP of casing above ground level: 0.00 (m)
Depth to bottom of casing below ground level (m): 1.50 (m) (Withdrawn to impervious layer)
Depth to bottom of borehole below ground level before test: 6.00 (m)
Depth to bottom of borehole below ground level after test: 6.00 (m)
Standing ground water level (mbgl): 0.00 (m) on 3-Dec-19

DATUM: All depths to water level measured from top of casing.

i.e. SWL 6.00 m below datum

TIME ELAPSED (mins)	WATER LEVEL* (m)	HEAD H (m)	HEAD RATIO H/Ho
0	0	6	1.0000
0.5	0.006	5.994	0.9990
1	0.008	5.992	0.9987
1.5	0.010	5.99	0.9983
2	0.010	5.99	0.9983
2.5	0.010	5.99	0.9983
3	0.011	5.989	0.9982
3.5	0.013	5.987	0.9978
4	0.014	5.986	0.9977
4.5	0.015	5.985	0.9975
5	0.016	5.984	0.9973
6	0.017	5.983	0.9972
7	0.018	5.982	0.9970
8	0.019	5.981	0.9968
9	0.020	5.98	0.9967
10	0.021	5.979	0.9965
15	0.022	5.978	0.9963
20	0.023	5.977	0.9962
25	0.024	5.976	0.9960
30	0.025	5.975	0.9958
40	0.025	5.975	0.9958
50	0.025	5.975	0.9958
60	0.025	5.975	0.9958

CALCULATION OF PERMEABILITY OF SOIL:

Employing Hvorslev formula: $k = A/FT$

where:

k is the permeability of soil

A is the cross-section area of borehole casing

F is the intake factor (see below)

T is the basic time lag factor as defined

in Figure 8 of BS 5930:1999 (Page 52)

No assessment possible due to limited fall in water
depth after 60 minutes

APPENDIX D

Windowless Sample Borehole Records

	Contract Name: P1, Land North of Horsham, West Sussex			Client: Legal and General (Strategic Land North of Horsham) Ltd			Borehole ID: WS201		
	Contract Number: J4175	Date Started: 29/11/2019	Logged By: JJW	Checked By: MJS	Status: FINAL	Sheet 1 of 1			
Window Sample Log	Easting: 518758.8	Northing: 133697.6	Ground Level: 59.33mOD	Plant Used: Dando Terrier	Print Date: 21/02/2020	Scale: 1:30			
Weather: Dry/Sunny		Termination: SPT refusal at 2.3mbgl.			SPT Hammer: DTO658 Energy Ratio: 64%				
Samples & In Situ Testing			Strata Details					Groundwater	
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/Installation	
0.40 0.50	D1 ES1	PID 0.50m, 0.2ppm	59.23	0.10 (0.70)		TOP SOIL - Dark brown mottled black slightly silty sandy CLAY.			
0.80	D2		58.53	0.80		MADE GROUND - Firm dark brownish black slightly gravelly sandy CLAY. Gravel is fine to coarse sub-angular to sub-rounded of brick.			
1.00 1.00 - 1.20	B1 ES2	PID 1.00m, 0.3ppm				Stiff dark reddish brown mottled grey gravelly CLAY. Gravel is fine to coarse angular to sub-angular of extremely weak mudstone. [RESIDUAL WEALD CLAY FORMATION]	1		
1.20 - 1.65	D3	SPT(S) 1.20m, N=36 (5,5/8,9,10,9)		(0.75)		Dark brown mottled black and orange extremely weak MUDSTONE with occasional light grey and orange thinly laminated (6mm) clay. Recovered as fine to coarse angular to sub-angular gravel. [DESTRUCTURED WEALD CLAY FORMATION]	2		
2.00 - 2.30	D4	SPT(S) 2.00m, N=100 (17,8/100 for 150mm)	57.78	1.55 (0.75)		End of Borehole at 2.30m			
			57.03	2.30					
Start & End of Shift Observations			Borehole Diameter		Casing Diameter		Remarks:		
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	
29-11-2019	14:00	2.30			1.20 2.00	300 101			
1. Inspection pit hand excavated to 1.20mbgl. No groundwater encountered. 3. On completion 50mm monitoring well installed to 2.0mbgl with concrete and raised cover installed at surface.									
Water Strikes									
Chiselling		Installation		Strike (m) Casing (m) Sealed (m) Time (mins) Rose to (m) Remarks					
From (m)	To (m)	Duration	Remarks	Top (m)	Base (m)	Type	Dia (mm)		
				0.00 1.00	1.00 2.00	PLAIN SLOTTED	50 50		
HBSI CP Template Issue Number: 2 Issue Date: 09/06/2015									

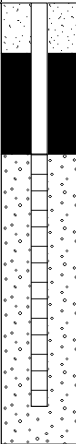
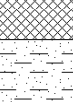
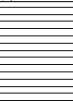
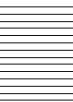
	Contract Name: P1, Land North of Horsham, West Sussex			Client: Legal and General (Strategic Land North of Horsham) Ltd			Borehole ID: WS202	
	Contract Number: J4175	Date Started: 28/11/2019	Logged By: JJW	Checked By: MJS	Status: FINAL	Sheet 1 of 1		
Window Sample Log	Easting: 518845.9	Northing: 133765.4	Ground Level: 59.33mOD	Plant Used: Dando Terrier	Print Date: 21/02/2020	Scale: 1:30		
Weather: Dry/Sunny			Termination: Service encountered.					
Samples & In Situ Testing			Strata Details				Groundwater	
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/Installation
			59.18	0.15		CONCRETE		
			59.03	0.30		MADE GROUND - Stiff dark brown mottled orange and grey slightly gravelly sandy CLAY with occasional roots <3mm (living). Gravel is fine to coarse sub-angular to sub-rounded of flint and brick. End of Borehole at 0.30m		
							1	
							2	
							3	
							4	
							5	
							6	
Start & End of Shift Observations			Borehole Diameter		Casing Diameter		Remarks:	
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)
28-11-2019	15:30	0.30			0.30	300		
1. Inspection pit hand excavated to 0.30mbgl. 2. Drain encountered at 0.30mbgl. 3. Back filled with arisings and concrete on completion.								
Water Strikes								
Chiselling			Installation				Strike (m) Casing (m) Sealed (m) Time (mins) Rose to (m) Remarks	
From (m)	To (m)	Duration	Remarks	Top (m)	Base (m)	Type	Dia (mm)	
HBSI CP Template Issue Number: 2 Issue Date: 09/06/2015								

	Contract Name: P1, Land North of Horsham, West Sussex			Client: Legal and General (Strategic Land North of Horsham) Ltd			Borehole ID: WS202A	
	Contract Number: J4175	Date Started: 28/11/2019	Logged By: JJW	Checked By: MJS	Status: FINAL	Sheet 1 of 1		
Window Sample Log	Easting: 518845.9	Northing: 133765.4	Ground Level: 59.33mOD	Plant Used: Dando Terrier	Print Date: 21/02/2020	Scale: 1:30		
Weather: Dry/Sunny			Termination: SPT refusal at 2.10mbgl.		SPT Hammer: DTO658 Energy Ratio: 64%			
Samples & In Situ Testing			Strata Details				Groundwater	
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/Installation
						CONCRETE		
0.30	ES1	HV 0.20m, 107kPa	59.18	0.15		MADE GROUND - Stiff dark brown mottled orange and grey slightly gravelly sandy CLAY with occasional roots <3mm (living). Gravel is fine to coarse sub-angular to sub-rounded of flint and brick.		
0.35	D1	PID 0.30m, 0.9ppm	59.03	0.30				
0.60	D2	HV 0.50m, 112kPa		(0.37)		Stiff grey mottled yellow and orange sandy CLAY with frequent rootlets <2mm (living). [RESIDUAL WEALD CLAY FORMATION]		
			58.66	0.67				
0.90	ES2	PID 0.90m, 0.1ppm				Stiff light grey mottled orange slightly gravelly sandy CLAY with occasional rootlets <2mm. Gravel is fine to medium angular to sub-angular of extremely weak mudstone. [RESIDUAL WEALD CLAY FORMATION]	1	
1.10 - 1.25	B1	HV 1.00m, 105kPa		(0.83)				
1.25 - 1.70	D3	SPT(S) 1.25m, N=15 (1,1/2,2,4,7)						
			57.83	1.50		Dark reddish brown mottled black and orange extremely weak MUDSTONE with occasional light grey and orange thinly laminated (6mm) clay. Recovered as fine to coarse angular to sub-angular gravel. [DESTRUCTURED WEALD CLAY FORMATION]		
1.80 - 2.10	D4	SPT(S) 1.80m, N=100 (11,14/100 for 150mm)		(0.60)				
			57.23	2.10		End of Borehole at 2.10m	2	
							3	
							4	
							5	
							6	
Start & End of Shift Observations			Borehole Diameter		Casing Diameter		Remarks:	
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)
28-11-2019	16:30	2.10			1.20	300		
					1.80	101		
					1. Inspection pit hand excavated to 1.20mbgl. Ground water encountered at 1.20mbgl (slow inflow) 3. On completion 50mm monitoring well installed to 1.80mbgl with concrete and cover installed at surface.			
					Water Strikes			
					Strike (m)	Casing (m)	Sealed (m)	Time (mins)
					1.20			0
					Rose to (m)	Remarks		
						Slow inflow		
					Chiselling			
From (m)	To (m)	Duration	Remarks		Installation			
					Top (m)	Base (m)	Type	Dia (mm)
					0.00	0.80	PLAIN	50
					0.80	1.80	SLOTTED	50
					HBSI CP Template Issue Number: 2 Issue Date: 09/06/2015			

	Contract Name: P1, Land North of Horsham, West Sussex			Client: Legal and General (Strategic Land North of Horsham) Ltd			Borehole ID: WS204	
	Contract Number: J4175	Date Started: 29/11/2019	Logged By: JJW	Checked By: MJS	Status: FINAL	Sheet 1 of 1		
Window Sample Log	Easting: 518862.5	Northing: 133820.5	Ground Level: 58.60mOD	Plant Used: Dando Terrier	Print Date: 21/02/2020	Scale: 1:30		
Weather: Dry/Sunny			Termination: Service encountered.					
Samples & In Situ Testing			Strata Details				Groundwater	
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/ Installation
			58.40	0.20		BITUMEN		
				(0.30)		MADE GROUND - Dark brown mottled black sandy fine to coarse sub-angular to sub-rounded GRAVEL of brick and concrete with occasional rootlets <2mm and roots <30mm (dead).		
			58.10	0.50		MADE GROUND - Stiff dark grey mottled orange slightly sandy slightly gravelly CLAY. Gravel is fine to coarse sub-angular to sub-rounded of brick and metal.		
				(0.40)				
			57.70	0.90		End of Borehole at 0.90m	1	
							2	
							3	
							4	
							5	
							6	
Start & End of Shift Observations			Borehole Diameter		Casing Diameter		Remarks:	
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)
29-11-2019	09:00	0.90			0.90	300		
1. Inspection pit hand excavated to 0.90mbgl. 2. Drain encountered at 0.90mbgl. 3. Back filled with arisings on completion.								
Water Strikes								
Chiselling			Installation				Strike (m) Casing (m) Sealed (m) Time (mins) Rose to (m) Remarks	
From (m)	To (m)	Duration	Remarks	Top (m)	Base (m)	Type	Dia (mm)	
HBSI CP Template Issue Number: 2 Issue Date: 09/06/2015								

	Contract Name: P1, Land North of Horsham, West Sussex			Client: Legal and General (Strategic Land North of Horsham) Ltd			Borehole ID: WS204A		
	Contract Number: J4175	Date Started: 29/11/2019	Logged By: JJW	Checked By: MJS	Status: FINAL	Sheet 1 of 1			
Window Sample Log	Easting: 518862.5	Northing: 133820.5	Ground Level: 58.60mOD	Plant Used: Dando Terrier	Print Date: 21/02/2020	Scale: 1:30			
Weather: Dry/Sunny		Termination: SPT refusal at 2.31mbgl			SPT Hammer: DTO658 Energy Ratio: 64%				
Samples & In Situ Testing			Strata Details					Groundwater	
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/Installation	
0.25 - 0.40	B1		58.45	0.15		BITUMEN			
0.45	ES1	PID 0.45m, 0.2ppm		(0.40)		MADE GROUND - Dark brown mottled black sandy fine to coarse sub-angular to sub-rounded GRAVEL of brick concrete, wood, ceramic and metal with occasional fine to coarse gravel sized pockets of sandy clay.			
0.65	D1	HV 0.60m, 51kPa	58.05	0.55		MADE GROUND - Firm dark grey mottled orange and black slightly gravelly sandy CLAY with occasional rootlets <2mm (dead). Gravel is fine to medium sub-angular to sub-rounded of brick.			
1.00	D2	HV 0.90m, 63kPa	57.80	0.80		Firm light grey mottled orange sandy CLAY with rare root traces. [RESIDUAL WEALD CLAY FORMATION]	1		
1.00	ES3	PID 1.00m, 0.3ppm		(0.50)					
1.20 - 1.65	D3	SPT(S) 1.20m, N=31 (2,3/5,7,9,10)	57.30	1.30					
									
									
									
2.00 - 2.31	D4	SPT(S) 2.00m, 153 (7,15/153 for 160mm)	56.29	2.31		Dark brown mottled black and orange extremely weak MUDSTONE with occasional light grey and orange thinly laminated (6mm) clay. Recovered as fine to coarse angular to sub-angular gravel. [DESTRUCTURED WEALD CLAY FORMATION]	2		
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
Start & End of Shift Observations			Borehole Diameter		Casing Diameter		Remarks:		
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	
29-11-2019	11:00	2.31							
1. Inspection pit hand excavated to 1.20mbgl. No ground water encountered 3. On completion 50mm monitoring well installed to 2.0mbgl with concrete and cover installed at surface.									
Water Strikes									
Strike (m)		Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks			
Chiselling					Installation				
From (m)	To (m)	Duration	Remarks	Top (m)	Base (m)	Type	Dia (mm)		
				0.00	1.00	PLAIN	50		
				1.00	2.00	SLOTTED	50		
HBSI CP Template Issue Number: 2 Issue Date: 09/06/2015									

	Contract Name: P1, Land North of Horsham, West Sussex			Client: Legal and General (Strategic Land North of Horsham) Ltd			Borehole ID: WS205	
	Contract Number: J4175	Date Started: 28/11/2019	Logged By: JJW	Checked By: MJS	Status: FINAL	Sheet 1 of 1		
Window Sample Log	Easting: 518895.1	Northing: 133784.9	Ground Level: 59.78mOD	Plant Used: Dando Terrier	Print Date: 21/02/2020	Scale: 1:30		
Weather: Dry/Sunny			Termination: Service encountered.					
Samples & In Situ Testing			Strata Details				Groundwater	
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/Installation
			59.66	0.12	    	BITUMEN		
			59.58	0.20		MADE GROUND - Dark brown mottled black slightly sandy gravelly CLAY. Gravel is fine to coarse sub-angular to sub-rounded of brick, concrete and pottery.		
				(0.35)		MADE GROUND - Stiff greenish grey mottled yellow slightly sandy CLAY with rare rootlets <2mm (living).		
			59.23	0.55		Stiff light grey mottled orange sandy reworked CLAY with occasional rootlets <2mm.		
			59.13	0.65		End of Borehole at 0.65m		
							1	
							2	
							3	
							4	
							5	
							6	
Start & End of Shift Observations			Borehole Diameter		Casing Diameter		Remarks:	
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)
28-11-2019	12:00	0.65			0.65	300		
1. Inspection pit hand excavated to 0.65mbgl. 2. Cable encountered at 0.65mbgl. 3. Back filled with arisings on completion.								
Water Strikes								
Chiselling			Installation				Strike (m)	
From (m)	To (m)	Duration	Remarks	Top (m)	Base (m)	Type	Dia (mm)	Remarks
HBSI CP Template Issue Number: 2 Issue Date: 09/06/2015								

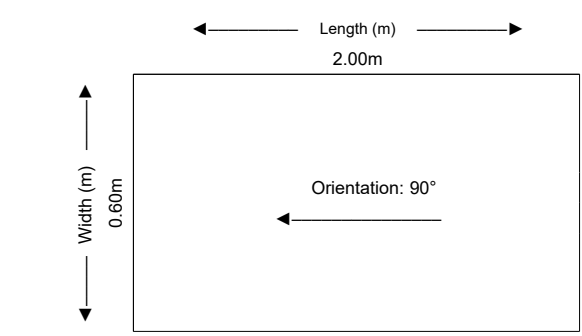
	Contract Name: P1, Land North of Horsham, West Sussex			Client: Legal and General (Strategic Land North of Horsham) Ltd			Borehole ID: WS205A	
	Contract Number: J4175	Date Started: 28/11/2019	Logged By: JJW	Checked By: MJS	Status: FINAL	Sheet 1 of 1		
Window Sample Log	Easting: 518895.1	Northing: 133784.9	Ground Level: 59.78mOD	Plant Used: Dando Terrier	Print Date: 21/02/2020	Scale: 1:30		
Weather: Dry/Sunny			Termination: SPT refusal at 1.75mbgl		SPT Hammer: DTO658 Energy Ratio: 64%			
Samples & In Situ Testing			Strata Details				Groundwater	
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/Installation
0.17 0.20	ES1 D1	HV 0.13m, 93kPa PID 0.17m, 0.2ppm	59.66 59.63	0.13 (0.40)		BITUMEN MADE GROUND - Stiff dark brown mottled black slightly sandy gravelly CLAY. Gravel is fine to coarse sub-angular to sub-rounded of brick, concrete and pottery.	1	
0.55	D2	HV 0.40m, 110kPa	59.23	0.55		MADE GROUND - Stiff greenish grey mottled yellow slightly sandy CLAY with rare rootlets <2mm (living).		
0.80 - 1.10	B1	HV 0.70m, 120kPa	58.98	0.80		Very stiff light grey mottled orange sandy reworked CLAY with occasional rootlets <2mm (living) [RESIDUAL WEALD CLAY FORMATION]		
1.10 1.10 - 1.55	D3 ES2	SPT(S) 1.10m, N=15 (4,3/4,3,3,5) PID 1.10m, 0.2ppm		(0.95)		Dark reddish brown mottled black and orange extremely weak MUDSTONE with occasional light grey and orange thinly laminated (6mm) clay. Recovered as fine to coarse angular to sub-angular gravel. [DESTRUCTURED WEALD CLAY FORMATION]		
1.60 - 1.75	D4	SPT(S) 1.60m, 100 (18,7/100 for 150mm)	58.03	1.75		End of Borehole at 1.75m	2	
							3	
							4	
							5	
							6	
Start & End of Shift Observations			Borehole Diameter		Casing Diameter		Remarks:	
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)
28-11-2019	12:30	1.75			1.20 1.60	300 101		
					1. Inspection pit hand excavated to 1.10mbgl. Ground water encountered at 1.10mbgl (slow inflow) 3. On completion 50mm monitoring well installed to 1.60mbgl with concrete and cover installed at surface.			
					Water Strikes			
					Strike (m)	Casing (m)	Sealed (m)	Time (mins)
					1.10			0
					Rose to (m)	Remarks		
						Slow inflow		
					Chiselling			
From (m)	To (m)	Duration	Remarks		Installation			
					Top (m)	Base (m)	Type	Dia (mm)
					0.00 0.60	0.60 1.60	PLAIN SLOTTED	50 50
					HBSI CP Template Issue Number: 2 Issue Date: 09/06/2015			

	Contract Name: P1, Land North of Horsham, West Sussex			Client: Legal and General (Strategic Land North of Horsham) Ltd			Borehole ID: WS206	
	Contract Number: J4175	Date Started: 28/11/2019	Logged By: JJW	Checked By: MJS	Status: FINAL	Sheet 1 of 1		
Window Sample Log	Easting: 518896.3	Northing: 133737.7	Ground Level: 60.20mOD	Plant Used: Dando Terrier	Print Date: 21/02/2020	Scale: 1:30		
Weather: Dry/Sunny		Termination: SPT refusal at 2.24mbgl.			SPT Hammer: DTO658 Energy Ratio: 64%			
Samples & In Situ Testing				Strata Details				Groundwater
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/Installation
0.10 - 0.26	B1		60.15	0.05		BITUMEN		
0.26	ES1	PID 0.26m, 0.2ppm	59.94	0.26		MADE GROUND - Dark brown mottled black and light brown very sandy fine to coarse angular to sub-rounded GRAVEL of clinker, brick and concrete with occasional cobbles of brick.		
		HV 0.50m, 67kPa		(0.34)		Firm light grey mottled yellow slightly sandy CLAY with occasional rootlets <2mm (living). [RESIDUAL WEALD CLAY FORMATION]		
0.60 - 0.80	B2		59.60	0.60		Very stiff light orangish brown mottled grey sandy gravelly CLAY. Gravel is fine to coarse angular to sub-angular of extremely weak mudstone. [RESIDUAL WEALD CLAY FORMATION]		
0.70	D1			(0.75)			1	
		HV 1.00m, 120kPa						
1.20	D2	SPT(S) 1.20m, N=22 (7,9/7,5,5,5)	58.85	1.35		Dark brown mottled black and orange extremely weak to very weak MUDSTONE with occasional light grey and orange thinly laminated (6mm) clay. Recovered as fine to coarse angular to sub-angular gravel. [DESTRUCTURED WEALD CLAY FORMATION]		
1.20 - 1.45	ES2	PID 1.20m, 0.2ppm		(0.89)				
1.70	D4						2	
2.00 - 2.45	D3	SPT(S) 2.00m, 100 (18,35/100 for 95mm)	57.96	2.24		End of Borehole at 2.24m		
							3	
								
							4	
								
							5	
								
							6	
								
								
								
								
								
								
								
								
								
								
Start & End of Shift Observations			Borehole Diameter		Casing Diameter		Remarks:	
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)
28-11-2019	11:00	2.24			1.20	300		
					2.00	101		
1. Inspection pit hand excavated to 1.20mbgl. No groundwater encountered. 3. On completion 50mm monitoring well installed to 2.0mbgl with concrete and cover installed at surface.								
Water Strikes								
Chiselling		Installation		Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)
From (m)	To (m)	Duration	Remarks	Top (m)	Base (m)	Type	Dia (mm)	Remarks
				0.00	1.00	PLAIN	50	
				1.00	2.00	SLOTTED	50	
HBSI CP Template Issue Number: 2 Issue Date: 09/06/2015								

	Contract Name: P1, Land North of Horsham, West Sussex		Client: Legal and General (Strategic Land North of Horsham) Ltd			Borehole ID: WS207A	
	Contract Number: J4175	Date Started: 29/11/2019	Logged By: JJW	Checked By: MJS	Status: FINAL	Sheet 1 of 1	
Window Sample Log	Easting: 519035.0	Northing: 133402.2	Ground Level: 52.72mOD	Plant Used: Dando Terrier	Print Date: 21/02/2020	Scale: 1:30	
Weather: Dry/Sunny		Termination: SPT refusal at 4.50mbgl			SPT Hammer: DTO658 Energy Ratio: 64%		
Samples & In Situ Testing			Strata Details				Groundwater
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike
0.30 0.35	D1 ES1	PID 0.30m, 6.0ppm	52.59	0.13		TOP SOIL - Dark brown slightly sandy CLAY with frequent rootlets <2mm (alive)	1
			52.32	0.40		MADE GROUND - Dark brown slightly sandy gravelly CLAY with frequent rootlets <2mm and occasional roots <10mm (dead). Gravel is fine to coarse sub-angular to sub-rounded of brick and concrete.	
0.90 1.00 1.00 - 1.20 1.20 - 1.65	ES2 B1 D2 D5	PID 0.90m, 10.2ppm SPT(S) 1.20m, N=12 (2,2/1,3,4,4)		(0.90)		Firm dark brown silty sandy slightly gravelly CLAY. Gravel is fine to medium sub-angular to sub-rounded of flint with rare shell fragments. [ALLUVIUM]	
			51.42	1.30		Firm light brown mottled orange and grey slightly sandy CLAY with occasional rootlets <2mm and roots <4mm (dead). [RESIDUAL WEALD CLAY FORMATION]	
			50.92	1.80		from 1.70mbgl with rare fine to coarse angular gravel of extremely weak mudstone.	
2.00 - 2.45	D6	SPT(S) 2.00m, N=31 (4,4/16,5,5,5)		(0.50)		Dark brown mottled black and grey extremely weak MUDSTONE with grey thinly laminated (<6mm) clay. Recovered as fine to medium angular mudstone. [DESTRUCTURED WEALD CLAY FORMATION]	2
2.30	D3			(0.70)			
			50.22	2.50		Stiff light brown mottled grey sandy slightly gravelly CLAY. Gravel is fine fine to medium angular of extremely weak mudstone. [DESTRUCTURED WEALD CLAY FORMATION]	
2.80	D4						
3.00 - 3.45	D7	SPT(S) 3.00m, N=25 (4,3/4,5,8,8)		(1.50)			3
4.00 - 4.45	D8	SPT(S) 4.00m, N=47 (3,3/7,8,14,18)	48.72	4.00		Dark brown mottled black and orange extremely weak to very weak MUDSTONE with light grey and orange thinly laminated (<6mm) clay. Recovered as fine to medium angular gravel. [DISTINCTLY WEATHERED WEALD CLAY FORMATION]	4
4.50 - 4.80	D9	SPT(S) 4.50m, 100 (13,12/100 for 150mm)		(0.80)			
			47.92	4.80	End of Borehole at 4.80m		5
							6
Start & End of Shift Observations			Borehole Diameter		Casing Diameter		Remarks: 1. Inspection pit hand excavated to 1.20mbgl. Ground water encountered at 4.45mbgl (slow inflow) 3. On completion 50mm monitoring well installed to 4.50mbgl with concrete and raised cover installed at surface. Water Strikes Strike (m) Casing (m) Sealed (m) Time (mins) Rose to (m) Remarks 4.45 0 Slow inflow Chiselling Installation From (m) To (m) Duration Remarks Top (m) Base (m) Type Dia (mm) 0.00 1.00 PLAIN 50 1.00 4.50 SLOTTED 50 HBSI CP Template Issue Number: 2 Issue Date: 09/06/2015
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	
29-11-2019	16:00	4.80			1.20	300	
					2.00	101	
					3.00	87	
					4.00	67	
					4.80	67	

APPENDIX E

Machine Excavated Trial Pit Records

		Contract Name: P1, Land North of Horsham, West Sussex		Client: Legal and General (Strategic Land North of Horsham) Ltd		Trial Pit ID: TP201														
		Contract Number: J4175	Date Started: 03/12/2019	Logged By: RAF	Checked By: MJS	Status: FINAL	Sheet 1 of 1													
Trial Pit Log		Easting: 518531.9	Northing: 134064.6	Ground Level: 60.24mOD	Plant Used: 13T Excavator	Date Printed: 21/02/2020	Scale: 1:30													
Weather: Dry/Sunny			Termination: Reached target depth			Stability: Good														
Samples & In Situ Testing				Strata Details			Water	Backfill												
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description														
0.10 0.10	D1 ES1	HV 0.50m, 73kPa HV 1.00m, 95kPa	59.94	(0.30)		TOP SOIL - Brown silty sandy CLAY.	1													
0.50	ES2			0.30		Firm to stiff light grey and orange silty sandy CLAY. [RESIDUAL WEALD CLAY FORMATION]														
				(1.10)																
1.50	B1			1.40		Light bluish grey and light brown mottled black extremely weak to weak MUDSTONE with occasional thinly laminated clay (<6mm) recovered as sandy fine to coarse angular gravel. [DESTRUCTURED WEALD CLAY FORMATION]														
2.40 2.50	B2 B3		57.74	2.50		Light brown mottled blue grey and black very weak to moderately weak MUDSTONE. Recovered as sandy fine to coarse angular gravel and occasional cobbles. (DISTINCTLY WEATHERED WEALD CLAY FORMATION)	3													
				(0.80)																
3.30	B4		56.94	3.30		Grey brown mottled black and reddish orange weak to moderately weak MUDSTONE with light blueish grey thinly laminated (<6mm) silty clay. Recovered as sandy fine to coarse angular gravel and occasional cobbles. (DISTINCTLY WEATHERED WEALD CLAY FORMATION)	4													
			56.24	4.00		End of Trial Pit at 4.00m														
Dimensions:					General Remarks:															
Final Depth: 4.00m					1. Trial pit machine excavated to 4.0mbgl. 2. No groundwater encountered 3. Backfilled with arisings on completion.															
																				
Inclination: °																				
					Water Strikes															
					<table><tr><th>Strike (m)</th><th>Casing (m)</th><th>Sealed (m)</th><th>Time (mins)</th><th>Rose to (m)</th><th>Remarks</th></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>				Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks						
Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks															
					HBSI TP Template Issue Number: 1 Issue Date: 09/06/2015															



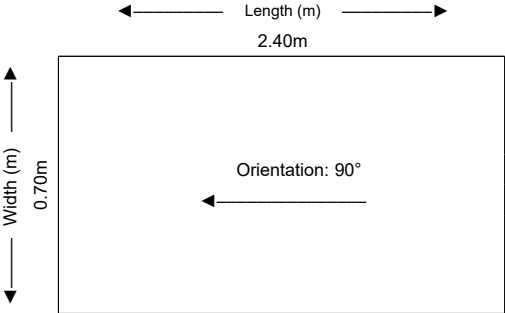
TP201 – 0.0mbgl – 4.0mbgl



TP201 – 0.0mbgl – 4.0mbgl



TP201 – 0.0mbgl – 4.0mbgl

	Contract Name: P1, Land North of Horsham, West Sussex		Client: Legal and General (Strategic Land North of Horsham) Ltd			Trial Pit ID: TP202																				
	Contract Number: J4175	Date Started: 02/12/2019	Logged By: RAF	Checked By: MJS	Status: FINAL	Sheet 1 of 1																				
Trial Pit Log		Easting: 518586.7	Northing: 134237.1	Ground Level: 67.15mOD	Plant Used: 13T Excavator	Date Printed: 21/02/2020	Scale: 1:30																			
Weather: Dry/Sunny			Termination: Refusal at 3.0mbgl			Stability: Unstable																				
Samples & In Situ Testing				Strata Details																						
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description	Water	Backfill																		
0.10 0.10	D1 ES1	HV 0.50m, 70kPa	66.75	(0.40)		TOP SOIL - Brown slightly gravelly silty sandy CLAY with occasional rootlets <2mm (living).																				
0.50 0.50	B1 ES2			0.40		Firm light bluish grey mottled dark orangish brown slightly sandy silty CLAY with occasional rootlets <2mm (dead). [RESIDUAL WEALD CLAY FORMATION]																				
		HV 1.00m, 60kPa	(1.40)		Light bluish grey and light brown extremely weak MUDSTONE. Recovered as sandy clayey fine to coarse sub-angular gravel. [DESTRUCTURED WEALD CLAY FORMATION]	1																				
1.50	D2	HV 1.50m, 62kPa	65.35	1.80		Light brown mottled blue grey and orange extremely weak to very weak MUDSTONE. Recovered as sandy clayey fine to coarse sub-angular gravel. [DESTRUCTURED WEALD CLAY FORMATION]			2																	
2.40	B2		64.75	2.40		End of Trial Pit at 3.00m	3																			
			64.15	3.00			4																			
Dimensions:					General Remarks:																					
Final Depth: 3.00m					1. Trial pit machine excavated to 3.0mbgl. 2. Ground water encountered at 0.80mbgl (moderate inflow) 3. Soak away test carried out from 1.65mbgl 4. Trial pit unstable, 20mm gravel infill to 0.60mbgl 5. Gravel removed and backfilled with arisings on completion.																					
																										
Inclination: °					<table><tr><th colspan="6">Water Strikes</th></tr><tr><th>Strike (m)</th><th>Casing (m)</th><th>Sealed (m)</th><th>Time (mins)</th><th>Rose to (m)</th><th>Remarks</th></tr><tr><td>0.80</td><td></td><td></td><td>0</td><td></td><td>Moderate inflow</td></tr></table>				Water Strikes						Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks	0.80			0		Moderate inflow
Water Strikes																										
Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks																					
0.80			0		Moderate inflow																					
HBSI TP Template					Issue Number: 1 Issue Date: 09/06/2015																					



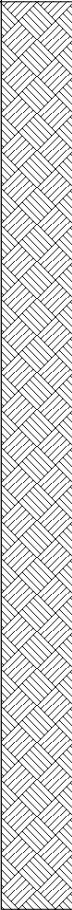
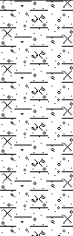
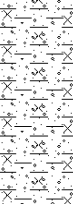
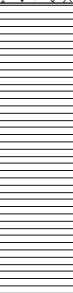
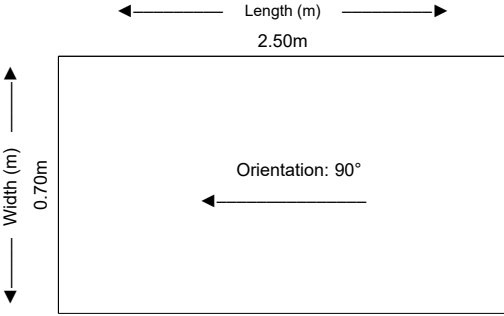
TP202 – 0.0mbgl – 3.0mbgl



TP202 – 0.0mbgl – 3.0mbgl



TP202 – 0.0mbgl – 3.0mbgl

	Contract Name: P1, Land North of Horsham, West Sussex		Client: Legal and General (Strategic Land North of Horsham) Ltd			Trial Pit ID: TP203														
	Contract Number: J4175	Date Started: 02/12/2019	Logged By: RAF	Checked By: MJS	Status: FINAL	Sheet 1 of 1														
Trial Pit Log		Easting: 518610.8	Northing: 134148.8	Ground Level: 64.12mOD	Plant Used: 13T Excavator	Date Printed: 21/02/2020	Scale: 1:30													
Weather: Dry/Sunny			Termination: Refusal at 3.60mbgl			Stability: Good														
Samples & In Situ Testing				Strata Details			Water	Backfill												
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description														
0.10 0.10	D1 ES1	HV 0.50m, 70kPa	63.77	(0.35)		TOP SOIL - Dark brown slightly sandy slightly gravelly silty CLAY with occasional rootlets <2mm (living).	1													
0.50 0.50	B1 ES2			0.35		Firm light blueish grey mottled orange and grey slightly sandy slightly gravelly silty CLAY. Gravel is fine to medium sub-angular weak mudstone. [RESIDUAL WEALD CLAY FORMATION]														
		HV 1.00m, 70kPa		(1.75)			2													
1.50	D2	HV 1.50m, 68kPa																		
		HV 2.00m, 67kPa																		
2.10	B2		62.02	2.10		Light bluish grey mottled light brown and black extremely weak to weak MUDSTONE. Recovered as clayey sandy fine to coarse sub-angular gravel. [DESTRUCTURED WEALD CLAY FORMATION]	3													
				(1.20)																
3.10	D3		60.82	3.30		Dark reddish brown and brownish orange very weak to moderately weak MUDSTONE. Recovered as sandy fine to coarse sub-angular gravel and occasional cobbles. [DESTRUCTURED WEALD CLAY FORMATION]	4													
3.40	B3		60.52	(0.30)																
				3.60		End of Trial Pit at 3.60m														
Dimensions:				General Remarks:																
Final Depth: 3.60m				1. Trial pit machine excavated to 3.60mbgl. 2. No groundwater encountered 3. Backfilled with arisings on completion.																
																				
Inclination: °																				
				Water Strikes																
				<table><tr><th>Strike (m)</th><th>Casing (m)</th><th>Sealed (m)</th><th>Time (mins)</th><th>Rose to (m)</th><th>Remarks</th></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>					Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks						
Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks															
				HBSI TP Template Issue Number: 1 Issue Date: 09/06/2015																



TP203 – 0.0mbgl – 3.6mbgl



TP203 – 0.0mbgl – 3.6mbgl

	Contract Name: P1, Land North of Horsham, West Sussex			Client: Legal and General (Strategic Land North of Horsham) Ltd			Trial Pit ID: TP204																				
	Contract Number: J4175	Date Started: 02/12/2019	Logged By: RAF	Checked By: MJS	Status: FINAL	Sheet 1 of 1																					
Trial Pit Log		Easting: 518607.6	Northing: 133981.7	Ground Level: 58.15mOD	Plant Used: 13T Excavator	Date Printed: 21/02/2020	Scale: 1:30																				
Weather: Dry/Sunny			Termination: Refusal at 3.50mbgl			Stability: Good																					
Samples & In Situ Testing				Strata Details				Water	Backfill																		
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description																					
0.10 0.10	D1 ES1	HV 0.50m, 80kPa	57.65	(0.50)		TOP SOIL - Brown slightly gravelly silty sandy CLAY with occasional rootlets <2mm (living). Gravel is fine to medium sub-angular to sub-rounded brick.	1																				
0.60 0.60	B1 ES2			0.50		Firm to stiff light grey and orange mottled black slightly sandy slightly gravelly silty CLAY. Gravel is fine to coarse sub-angular extremely weak to very weak mudstone. [RESIDUAL WEALD CLAY FORMATION]																					
1.40	B2		56.75	1.40		Light grey and brownish orange extremely weak MUDSTONE with thinly laminated silty clay (<6mm). Recovered as fine to coarse sub-angular clayey sandy gravel. [DESTRUCTURED WEALD CLAY FORMATION]	2																				
1.80	B3		56.35	1.80		Light brown mottled bluish brown extremely weak to very weak MUDSTONE. Recovered as fine to coarse sub-angular sandy gravel and occasional cobbles. [DISTINCTLY WEATHERED WEALD CLAY FORMATION]																					
2.70	B4		55.55	2.60		Light brown mottled bluish grey and orange weak to moderately weak MUDSTONE. Recovered as sub-angular fine to coarse sub-angular sandy gravel and occasional cobbles. (PARTIALLY WEATHERED WEALD CLAY FORMATION)																					
			54.65	3.50	End of Trial Pit at 3.50m			4																			
Dimensions:					General Remarks:																						
Final Depth: 3.50m					1. Trial pit machine excavated to 3.0mbgl. 2. Ground water encountered at 2.20mbgl (slow inflow) 3. Backfilled with arisings on completion.																						
Inclination: °																											
					<table><tr><th colspan="6">Water Strikes</th></tr><tr><th>Strike (m)</th><th>Casing (m)</th><th>Sealed (m)</th><th>Time (mins)</th><th>Rose to (m)</th><th>Remarks</th></tr><tr><td>2.20</td><td></td><td></td><td>0</td><td></td><td>Slow inflow</td></tr></table>					Water Strikes						Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks	2.20			0		Slow inflow
Water Strikes																											
Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks																						
2.20			0		Slow inflow																						
					HBSI TP Template Issue Number: 1 Issue Date: 09/06/2015																						



TP204 – 0.0mbgl – 3.5mbgl



TP204 – 0.0mbgl – 3.5mbgl



TP204 – 0.0mbgl – 3.5mbgl

	Contract Name: P1, Land North of Horsham, West Sussex		Client: Legal and General (Strategic Land North of Horsham) Ltd			Trial Pit ID: TP205														
	Contract Number: J4175	Date Started: 09/12/2019	Logged By: JJW	Checked By: MJS	Status: FINAL	Sheet 1 of 1														
Trial Pit Log		Easting: 518600.7	Northing: 133613.3	Ground Level: 54.31mOD	Plant Used: 13T Excavator	Date Printed: 21/02/2020	Scale: 1:30													
Weather: Overcast			Termination: Refusal at 3.00mbgl			Stability: Good														
Samples & In Situ Testing				Strata Details																
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description	Water	Backfill												
0.10 0.10	D1 ES1	HV 0.50m, 71kPa	54.01	(0.30)		TOP SOIL - Dark brown slightly sandy silty CLAY.	1													
0.50 0.50	B1 ES2			0.30		Firm light brown mottled orange and grey silty sandy CLAY. (RESIDUAL WEALD CLAY FORMATION)														
1.30	B2			(0.90)		Reddish brown mottled grey and black extremely weak MUDSTONE with rare grey thinly (<6mm) laminated grey clay. Recovered as clayey sandy fine to coarse sub-angular gravel. (DESTRUCTURED WEALD CLAY FORMATION)														
2.20	B3			53.11	1.20				Dark reddish brown mottled black and grey extremely weak to very weak MUDSTONE. Recovered as sandy fine to coarse sub-angular gravel. (DISTINCTLY WEATHERED WEALD CLAY FORMATION)											
2.90	B4		52.21	2.10		Dark brown mottled grey and black moderately weak to medium strong MUDSTONE. Recovered as sandy fine to coarse sub-angular gravel and occasional cobbles. (DISTINCTLY WEATHERED WEALD CLAY FORMATION)	2													
			51.51	2.80			3													
			51.31	3.00		End of Trial Pit at 3.00m	4													
Dimensions:					General Remarks:															
Final Depth: 3.00m					1. Trial pit machine excavated to 3.0mbgl. 2. No ground water encountered 3. Backfilled with arisings on completion.															
Inclination: °																				
					Water Strikes															
					<table><tr><th>Strike (m)</th><th>Casing (m)</th><th>Sealed (m)</th><th>Time (mins)</th><th>Rose to (m)</th><th>Remarks</th></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>				Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks						
Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks															
					HBSI TP Template Issue Number: 1 Issue Date: 09/06/2015															