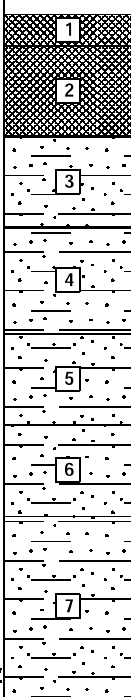
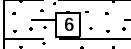
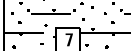
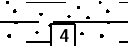
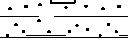
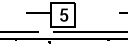
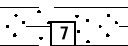


Project	GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)	Engineer	WATERMAN INFRASTRUCTURE & ENVIRONMENT LIMITED		Trial Pit Project No	TP307 PC207899	
Client	GRAVEN HILL VILLAGE DEVELOPMENT COMPANY LIMITED	National Grid Coordinates	458400.0	E	Ground Level	71.26	m OD
			220749.2	N			

Samples and Tests				Strata		Scale 1:50		
Depth	Type	Stratum No	Results	Description	Depth	Legend	Level m OD	
0.00- 0.20 0.10 0.10 0.10 0.20- 0.80 0.30 0.30 0.50 0.50 1.00- 1.40 1.00 1.00 1.10 1.50 1.50- 2.00 1.50 1.70 1.80 2.20- 2.70 2.50	B D ES B ES D HV B ES D D ES HV ES B D		PID=<0.1 mc=27% PID=<0.1 Av=107kPa PID=<0.1 Av=95kPa PID=<0.1	MADE GROUND: Stiff dark brown slightly sandy slightly gravelly clay with many rootlets. Gravel is angular to subangular fine to medium brick and glass. MADE GROUND: Stiff brown mottled grey slightly sandy slightly gravelly clay with rare rootlets. Gravel is angular to subrounded fine to medium brick. Stiff grey mottled orangish brown slightly sandy CLAY. Stiff dark grey mottled brown slightly sandy CLAY with occasional decomposed organic material (up to 10mm in size). Soft to firm brown mottled grey slightly sandy clay with many pockets (up to 40mm in size) of orangish brown sandy clay and occasional gypsum crystals (up to 6mm in size). Firm grey mottled brown slightly sandy CLAY with occasional pockets (up to 30mm in size) of yellowish brown sandy clay, occasional gypsum crystals (up to 6mm in size) and a slight organic odour. Firm to stiff fissured dark brownish grey slightly sandy CLAY with occasional pockets (up to 30mm in size) of yellowish brown sandy clay, occasional gypsum crystals (up to 6mm in size) and a organic odour. Fissures are subhorizontal, extremely to very closely spaced, smooth and undulating.	G.L. 0.20 0.80 1.40 2.10 2.70 3.30 4.50		71.26 71.06 70.46 69.86 69.16 68.56 67.96 66.76	
2.80- 3.20 3.00	B D			Firm grey mottled brown slightly sandy CLAY with occasional pockets (up to 30mm in size) of yellowish brown sandy clay, occasional gypsum crystals (up to 6mm in size) and a slight organic odour.	2.70		68.56	
3.80- 4.20 4.00	B D			Firm to stiff fissured dark brownish grey slightly sandy CLAY with occasional pockets (up to 30mm in size) of yellowish brown sandy clay, occasional gypsum crystals (up to 6mm in size) and a organic odour. Fissures are subhorizontal, extremely to very closely spaced, smooth and undulating.	3.30		67.96	
4.40	D			End of Excavation	4.50		66.76	
Excavation				Groundwater				
Plant JCB 3CX		Width (B) 0.60		Depth Observed	Depth of Pit	Details		
Date 23/07/2020		Length (C) 3.00		4.40	4.40	Seepage.		
Shoring None.		Orientation 045 deg						
Stability Stable during excavation.		Date Backfilled 23/07/2020						
Remarks  ES sample = 2 x vial, 1 x plastic jar and 2 amber jar Radioactive screening at discrete sample depths, using a Thermo Scientific Mini 900E. No activity detected. Backfill details from base of hole: arisings up to ground level.				Logged by MM Figure 1 of 1 11/11/2020				
Symbols and abbreviations are explained on the accompanying key sheet.								
All dimensions are in metres.				Logged in accordance with BS5930:2015				

Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)	Engineer WATERMAN INFRASTRUCTURE & ENVIRONMENT LIMITED	Trial Pit TP308 Project No PC207899
Client GRAVEN HILL VILLAGE DEVELOPMENT COMPANY LIMITED	National Grid Coordinates 458431.9 E 220766.1 N	Ground Level 71.67 m OD

Samples and Tests				Strata	Scale 1:50		
Depth	Type	Stratum No	Results	Description	Depth	Legend	Level m OD
0.00- 0.20	B			MADE GROUND: Stiff slightly sandy slightly gravelly clay with many rootlets. Gravel is angular to subangular fine to medium concrete and brick.	G.L.		71.67
0.10	D				0.20		71.47
0.10	ES		PID=<0.1				
0.20- 0.70	B			PROBABLE MADE GROUND: Stiff brown slightly sandy slightly gravelly clay with rare roots (up to 20mm in diameter). Gravel is angular to subangular fine to coarse limestone.	0.70		70.97
0.30	ES		PID=<0.1				
0.50	D				1.00		70.67
0.50	HV		Av=92kPa				
0.70- 1.00	B			Stiff orangish brown mottled grey slightly sandy CLAY with rare roots (up to 10mm in diameter) and rare pockets (up to 10mm in size) of soft dark brown clay.	1.60		70.07
0.80	D				1.90		69.77
0.90	ES		PID=<0.1				
1.30- 1.60	B			Firm grey mottled orangish brown slightly sandy calcareous CLAY with occasional shell fragments (up to 15mm in size).	2.20		69.47
1.50	D		mc=24%				
1.50	HV		Av=67kPa				
1.70- 1.90	B			Firm grey mottled brown CLAY with pockets (up to 100mm in size) of soft orangish brown sandy clay, occasional gypsum crystals (up to 6mm in size) and occasional pockets (up to 10mm in size) of decomposed organic material.			
1.70	ES		PID=<0.1				
1.80	D						
1.90- 2.10	B			Firm brown mottled grey slightly sandy CLAY with occasional pockets (up to 30mm in size) of orangish brown sandy clay.			
2.00	D						
2.50	D						
2.50	HV		Av=55kPa				
2.80- 3.20	B			Firm fissured dark brownish grey slightly sandy CLAY with occasional pockets (up to 5mm in size) of yellowish brown sandy clay and occasional gypsum crystals (up to 6mm in size). Fissures are subhorizontal, extremely to very closely spaced, smooth and undulating.	4.50		67.17
3.50	D						
3.50	HV		Av=102kPa				
4.40	D			End of Excavation			

Excavation				Groundwater		
Plant	JCB 3CX	Width (B)	0.60	Depth Observed	Depth of Pit	Details
Date	23/07/2020	Length (C)	3.00	1.70	1.70	Seepage.
Shoring	None.	Orientation	130 deg			
		Date Backfilled	23/07/2020			
Stability	Stable during excavation.					

Remarks  ES sample = 2 x vial, 1 x plastic jar and 2 amber jar

Radioactive screening at discrete sample depths, using a Thermo Scientific Mini 900E. No activity detected.

Backfill details from base of hole: arisings up to ground level.

Symbols and abbreviations are explained on the accompanying key sheet.

All dimensions are in metres.

Logged by **MM**

Figure **1 of 1**

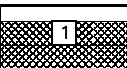
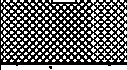
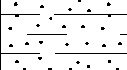
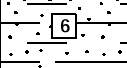
11/11/2020



Logged in accordance with BS5930:2015

Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2) Engineer WATERMAN INFRASTRUCTURE & ENVIRONMENT LIMITED Trial Pit TP309 Project No PC207899

Client GRAVEN HILL VILLAGE DEVELOPMENT COMPANY LIMITED National Grid Coordinates 458387.7 E 220786.6 N Ground Level 70.27 m OD

Samples and Tests				Strata	Scale 1:50				
Depth	Type	Stratum No	Results	Description	Depth	Legend	Level m OD		
0.00- 0.15	B			MADE GROUND: Firm slightly sandy slightly gravelly clay with many rootlets. Gravel is angular to subangular fine to coarse brick and concrete	G.L.		70.27		
0.10	D				0.15		70.12		
0.10	ES		PID=<0.1						
0.30- 0.60	B			MADE GROUND: Stiff grey mottled brown slightly sandy slightly gravelly clay with occasional rootlets. Gravel is angular to subangular fine to medium brick.	0.65		69.62		
0.30	ES		PID=<0.1						
0.50	D			MADE GROUND: Firm grey mottled brown slightly sandy clay.					
0.60	ES								
0.60	HV		Av=80kPa						
0.60			PID=<0.1						
0.70- 1.20	B		mc=23%	At 1.00m, a clay pipe (100mm in diameter).					
0.85	ES				1.60		68.67		
0.85			PID=<0.1	Firm dark grey mottled brown CLAY with occasional gypsum crystals (up to 6mm in size).					
1.50	D		mc=33%		2.00		68.27		
1.50	HV		Av=72kPa						
1.60- 1.90	B			Soft to firm grey mottled brown slightly sandy CLAY with occasional pockets (up to 30mm in size) of orangish brown sandy clay and occasional pockets (up to 20mm in size) of decomposed organic material.	2.30		67.97		
1.65	ES		PID=<0.1						
1.80	D								
2.00- 2.30	B			Firm to stiff brownish grey slightly sandy CLAY with occasional pockets (up to 20mm in size) of yellowish brown sandy clay, many gypsum crystals (up to 6mm in size) and rare pyrite nodules (up to 15mm in size).	4.00		66.27		
2.20	D								
2.50- 3.00	B								
2.50	D				4.50		65.77		
2.50	HV		Av=68kPa						
3.50	D								
4.00- 4.50	B			Stiff bluish grey slightly sandy CLAY with an organic odour.					
4.40	D			End of Excavation					
Excavation				Groundwater					
Plant	JCB 3CX	Width (B)	0.60	Depth Observed	Depth of Pit	Details			
Date	23/07/2020	Length (C)	3.00						
Shoring	None.	Orientation	045 deg	None encountered during excavation.					
Stability	Stable during excavation.	Date Backfilled	23/07/2020						
Remarks				Logged by					
ES sample = 2 x vial, 1 x plastic jar and 2 amber jar				MM					
Radioactive screening at discrete sample depths, using a Thermo Scientific Mini 900E. No activity detected.				Figure					
Backfill details from base of hole: arisings up to ground level.				1 of 1					
Symbols and abbreviations are explained on the accompanying key sheet.				11/11/2020					
All dimensions are in metres.				geotechnics					
Logged in accordance with BS5930:2015									

Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2) Engineer WATERMAN INFRASTRUCTURE & ENVIRONMENT LIMITED Trial Pit TP310 Project No PC207899

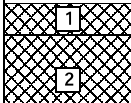
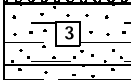
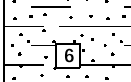
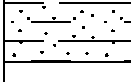
Client GRAVEN HILL VILLAGE DEVELOPMENT COMPANY LIMITED National Grid Coordinates 458343.1 E 220856.5 N Ground Level 68.11 m OD

Samples and Tests				Strata	Scale 1:50			
Depth	Type	Stratum No	Results	Description	Depth	Legend	Level m OD	
0.10	ES		PID=<0.1	MADE GROUND: Asphalt.	G.L.		68.11	
0.10					0.15		67.96	
					0.25		67.86	
0.40	B HV		Av=49kPa	MADE GROUND: Dark brown very sandy slightly silty gravel. Gravel is angular to subangular fine to coarse limestone and granite.				
0.60					0.55		67.56	
1.00	B D		Av=47kPa	MADE GROUND: Dark brown and grey very gravelly silty sand with a high cobble content of angular to subangular limestone. Gravel is angular to subangular fine to coarse limestone.				
1.00								
1.00	ES HV		PID=<0.1	Soft light grey mottled light orangish brown slightly sandy CLAY.				
1.00								
1.50	D HV		mc=38%	Below 1.50m, becoming dark brownish grey.	1.85		66.26	
1.50								
2.00	B D		PID=<0.1	Soft dark greyish brown mottled orangish brown slightly sandy CLAY with many gypsum crystals (up to 4mm in size).				
2.00								
2.00	ES		Av=98kPa	Below 2.70m, becoming brownish grey.	2.80		65.31	
2.00								
3.00	B D			Stiff grey slightly sandy CLAY with many shell fragments (up to 15mm in size) and occasional gypsum crystals (up to 5mm in size).				
3.00								
3.00	HV			Between 2.80-3.50m, becoming mottled grey.				
3.50								
4.00	D			Below 3.50m, gypsum crystals absent.				
4.50	D			End of Excavation	4.50		63.61	
Excavation				Ground water				
Plant	JCB 3CX	Width (B)	0.60	Depth Observed	Depth of Pit	Details		
Date	23/07/2020	Length (C)	2.80			None encountered during excavation.		
Shoring	None.	Orientation	212 deg					
Stability	Stable during excavation.	Date Backfilled	23/07/2020					
Remarks	ES sample = 2 x vial, 1 x plastic jar and 2 amber jar						Logged by	MJ
	Radioactive screening at discrete sample depths, using a Thermo Scientific Mini 900E. No activity detected.						Figure	1 of 1
	Backfill details from base of hole: arisings up to ground level.							11/11/2020
								

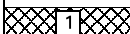
Project	GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)	Engineer	WATERMAN INFRASTRUCTURE & ENVIRONMENT LIMITED		Trial Pit Project No	TP331 PC207899
Client	GRAVEN HILL VILLAGE DEVELOPMENT COMPANY LIMITED	National Grid Coordinates	458302.1	E	Ground Level	70.32 m OD
			220694.4	N		

Samples and Tests				Strata		Scale 1:50		
Depth	Type	Stratum No	Results	Description	Depth	Legend	Level m OD	
					G.L.		70.32	
0.20	D			MADE GROUND: Dark brown very gravelly silty sand with many rootlets. Gravel is angular fine to coarse clinker, brick, slag and limestone.	0.30		70.02	
0.20	ES		PID=<0.1		0.40		69.92	
0.20	B			MADE GROUND: Stiff light grey mottled orangish brown slightly sandy clay.	0.70		69.62	
0.45	D		Av=80kPa					
0.45	HV			MADE GROUND: Stiff dark orangish brown mottled dark grey slightly sandy slightly gravelly clay. Gravel is angular to subangular fine to coarse brick.				
0.50	B							
0.80	D			Firm light grey mottled orangish brown slightly sandy CLAY.	1.40		68.92	
0.80	ES		PID=<0.1					
0.80	HV		Av=51kPa	Firm dark greyish brown mottled orangish brown slightly sandy CLAY with many gypsum crystals (up to 4mm in size) and occasional pockets (up to 50mm in size) of orangish brown slightly silty sand.				
1.00	D		mc=37%					
1.30	B							
1.50	D							
1.50	ES							
1.50	HV		Av=51kPa					
1.50	D		PID=<0.1					
1.50	HV		mc=38%					
2.00	D		Av=52kPa					
2.00	HV							
2.50	D							
2.50	HV		Av=53kPa					
3.00	D							
						</		

Project	GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)	Engineer	WATERMAN INFRASTRUCTURE & ENVIRONMENT LIMITED		Trial Pit Project No	TP332 PC207899
Client	GRAVEN HILL VILLAGE DEVELOPMENT COMPANY LIMITED	National Grid Coordinates	458264.0	E	Ground Level	67.73 m OD
			220861.6	N		

Samples and Tests				Strata		Scale 1:50		
Depth	Type	Stratum No	Results	Description	Depth	Legend	Level m OD	
0.10 0.10 0.40	ES B		PID=<0.1	MADE GROUND: Dark brown slightly gravelly slightly silty sand with many rootlets. Gravel is angular to subangular flint, quartzite and clinker.	G.L. 0.20		67.73 67.53	
1.00 1.00 1.00 1.00 1.00 1.40 1.40 1.40 2.00 2.00 2.00	B D ES HV B D HV D ES		Av=67kPa PID=<0.1 mc=39% Av=44kPa PID=<0.1	MADE GROUND: Dark grey slightly silty sand and gravel. Gravel is angular to subangular fine to coarse brick, concrete, slag and clinker. Below 0.40m, with a high cobble content and low boulder content of angular to subangular limestone. POSSIBLE MADE GROUND: Firm dark grey mottled dark reddish brown slightly sandy CLAY. Firm light grey mottled orangish brown slightly sandy CLAY.	0.80 1.20	 	66.93 66.53	
2.50 2.50 2.70 2.70 2.70	D HV B D HV		Av=45kPa Av=40kPa	Soft dark brown mottled light brown slightly sandy CLAY with many gypsum crystals (up to 4mm in size) and rare pockets (up to 3mm in size) of light grey silt. Below 2.50m, with rare relict rootlets.	2.50 3.10	 	65.23 64.63	
3.50 3.50	B D			Stiff grey slightly sandy CLAY with occasional shell fragments (up to 80mm in size).				
4.00	D							
4.50	D			End of Excavation	4.50		63.23	
Excavation				Groundwater				
Plant JCB 3CX	Date 23/07/2020	Width (B) 0.60	Length (C) 2.40	Depth Observed	Depth of Pit	Details		
Shoring None.		Orientation 218 deg	Date Backfilled 23/07/2020			None encountered during excavation.		
Stability Stable during excavation.								
Remarks  ES sample = 2 x vial, 1 x plastic jar and 2 amber jar Radioactive screening at discrete sample depths, using a Thermo Scientific Mini 900E. No activity detected. Backfill details from base of hole: arisings up to ground level.				Logged by MJ Figure 1 of 1 11/11/2020				
Symbols and abbreviations are explained on the accompanying key sheet.								
All dimensions are in metres.				Logged in accordance with BS5930:2015				

Project	GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)	Engineer	WATERMAN INFRASTRUCTURE & ENVIRONMENT LIMITED		Trial Pit Project No	TP333 PC207899	
Client	GRAVEN HILL VILLAGE DEVELOPMENT COMPANY LIMITED	National Grid Coordinates	458517.2	E	Ground Level	70.95	m OD
			220837.8	N			

Samples and Tests				Strata		Scale 1:50		
Depth	Type	Stratum No	Results	Description	Depth	Legend	Level m OD	
0.10	ES		PID=<0.1	MADE GROUND: Asphalt.	G.L.		70.95	
0.10					0.20		70.75	
0.40	B ES		PID=<0.1	MADE GROUND: Dark reddish grey silty sand and gravel. Gravel is angular to subangular fine to coarse granite and quartzite.	0.45		70.50	
0.40								
				End of Excavation				

Excavation				Ground water		
Plant	JCB 3CX	Width (B)	0.60	Depth	Depth	Details
Date	22/07/2020	Length (C)	2.50	Observed	of Pit	
Shoring	None.	Orientation	317 deg			
Stability	Stable during excavation.	Date Backfilled	22/07/2020			
				None encountered during excavation.		

Remarks	ES sample = 2 x vial, 1 x plastic jar and 2 amber jar
	Radioactive screening at discrete sample depths, using a Thermo Scientific Mini 900E. No activity detected.
Symbols and abbreviations are explained on the accompanying key sheet.	The Trial Pit was terminated at a depth of 0.45m on the instruction of the Engineer due to the presence of service tape.
	Backfill details from base of hole: arisings up to ground level.

**All dimensions
are in metres.**

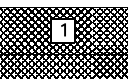
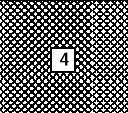
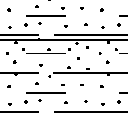
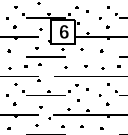
Logged in accordance with BS5930:2015

Logged by **MJ**

Figure 1 of 1
11/11/2020

geotechnics

Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)	Engineer WATERMAN INFRASTRUCTURE & ENVIRONMENT LIMITED	Trial Pit TP334 Project No PC207899
Client GRAVEN HILL VILLAGE DEVELOPMENT COMPANY LIMITED	National Grid Coordinates 458454.1 E 220956.0 N	Ground Level 69.82 m OD

Samples and Tests				Strata	Scale 1:50		
Depth	Type	Stratum No	Results	Description	Depth	Legend	Level m OD
				MADE GROUND: Soft dark brown slightly sandy slightly gravelly clay with many rootlets and occasional roots (up to 5mm in diameter). Gravel is angular to subangular fine to medium brick and quartzite.	G.L.		69.82
0.20	B						
0.20	D				0.30		69.52
0.20	ES		PID=<0.1				
0.20							
0.60	B			MADE GROUND: Stiff to very stiff brown mottled grey slightly sandy clay.			
0.60	D				1.00		68.82
0.70	HV		Av=109kPa				
1.00	D			MADE GROUND: Firm brown mottled grey slightly sandy slightly gravelly clay. Gravel is angular to subangular fine to medium brick.			
1.00	ES				1.50		68.32
1.00	HV		Av=88kPa PID=<0.1 Av=53kPa	Below 1.45m, becoming soft.			
1.50	HV						
1.60	B			MADE GROUND: Firm dark greyish brown slightly sandy slightly gravelly clay with occasional decomposed organic material (up to 10mm in size) and many rootlets. Gravel is angular to subangular fine to medium brick, quartzite and limestone.	2.30		67.52
1.60	D		PID=<0.1				
1.60	ES						
2.00	D		Av=67kPa				
2.00	HV			Firm to stiff light grey mottled light orangish brown sandy CLAY.	3.10		66.72
2.40	B						
2.40	D		Av=83kPa	Below 2.50m, becoming slightly sandy.			
2.50	HV						
3.00	D			Firm dark grey mottled orangish brown slightly sandy CLAY with many gypsum crystals (up to 5mm in size).			
3.00	ES		Av=86kPa PID=<0.1				
3.00	HV						
3.20	B			Between 3.10-4.10m, becoming dark grey mottled yellowish brown.			
3.20	D						
4.00	B			Below 3.50m, becoming stiff.	4.50		65.32
4.00	D						
				End of Excavation			

Excavation				Groundwater		
Plant	JCB 3CX	Width (B)	0.60	Depth Observed	Depth of Pit	Details
Date	22/07/2020	Length (C)	2.70			
Shoring	None.	Orientation	038 deg			None encountered during excavation.
Stability	Stable during excavation.	Date Backfilled	22/07/2020			

Remarks	ES sample = 2 x vial, 1 x plastic jar and 2 amber jar Radioactive screening at discrete sample depths, using a Thermo Scientific Mini 900E. No activity detected. Backfill details from base of hole: arisings up to ground level.	Logged by MJ Figure 1 of 1 11/11/2020
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Symbols and abbreviations are explained on the accompanying key sheet.

All dimensions are in metres.

Logged in accordance with BS5930:2015



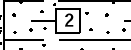
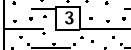
Project	GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)	Engineer	WATERMAN INFRASTRUCTURE & ENVIRONMENT LIMITED		Trial Pit Project No	TP601 PC207899
Client	GRAVEN HILL VILLAGE DEVELOPMENT COMPANY LIMITED	National Grid Coordinates	458114.1	E 220810.1	Ground Level	66.12 m OD

Samples and Tests				Strata		Scale 1:50		
Depth	Type	Stratum No	Results	Description	Depth	Legend	Level m OD	
0.30 0.30 0.30 0.30	B D ES		PID=<0.1	MADE GROUND: Firm dark brown slightly sandy gravelly clay with many rootlets and roots (up to 15mm in diameter). Gravel is angular to subrounded fine to coarse quartzite, brick, plastic and pottery.	G.L.		66.12	
1.00 1.00 1.00 1.00 1.00 1.50	B D ES HV HV		Av=109kPa PID=<0.1 Av=65kPa	Stiff light grey mottled light orangish brown slightly sandy slightly gravelly CLAY. Gravel is angular to subangular fine to coarse mudstone and limestone. Below 1.30m, becoming firm.	0.85		65.27	
2.00 2.00	D HV		Av=73kPa					
2.50 2.50	D HV		Av=69kPa	Below 2.90m, becoming dark grey mottled dark orangish brown.	3.10		63.02	
3.20 3.20	B D			Firm dark grey slightly sandy CLAY with a slight organic odour and occasional pockets (up to 20mm in size) of decomposed organic material.	3.85		62.27	
4.00 4.00	B D			Stiff grey slightly sandy CLAY with occasional shell fragments (up to 50mm in size).	4.50		61.62	
4.50	D			End of Excavation				
Excavation				Ground water				
Plant	JCB 3CX	Width (B)	0.60	Depth Observed	Depth of Pit	Details		
Date	27/07/2020	Length (C)	3.10			None encountered during excavation.		
Shoring	None.	Orientation	320 deg					
Stability	Stable during excavation.							
			Date Backfilled	27/07/2020				
Remarks				Logged by				
ES sample = 2 x vial, 1 x plastic jar and 2 amber jar				MJ				
Radioactive screening at discrete sample depths, using a Thermo Scientific Mini 900E. No activity detected.				Figure 1 of 1				
Backfill details from base of hole: arisings up to ground level.				11/11/2020				
AGS				geotechnics				
Symbols and abbreviations are explained on the accompanying key sheet.								
All dimensions are in metres.								
Logged in accordance with BS5930:2015								

Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)	Engineer WATERMAN INFRASTRUCTURE & ENVIRONMENT LIMITED	Trial Pit TP608 Project No PC207899
Client GRAVEN HILL VILLAGE DEVELOPMENT COMPANY LIMITED	National Grid Coordinates 458123.3 E 220705.2 N	Ground Level 65.99 m OD

Samples and Tests				Strata	Scale 1:50			
Depth	Type	Stratum No	Results	Description	Depth	Legend	Level m OD	
0.00- 0.20	B			MADE GROUND: Firm brownish grey slightly gravelly sandy clay with a low cobble content of subangular brick, many rootlets and occasional roots (up to 20mm in diameter). Gravel is angular to subangular fine to coarse glass, brick and flint. MADE GROUND: Stiff brown mottled grey slightly sandy slightly gravelly clay with occasional rootlets and rare roots (up to 20mm in diameter). Gravel is angular fine brick. Stiff orangish brown mottled grey slightly sandy CLAY with occasional rootlets and rare roots (up to 20mm in diameter). Stiff grey mottled reddish brown slightly sandy CLAY with occasional pockets (up to 50mm in size) of firm sandy clay and occasional shell fragments (up to 10mm in size). Below 2.00m, with occasional gypsum crystals (up to 4mm in size). End of Excavation	G.L.	1 2	65.99	
0.10	ES		PID=<0.1		0.30		65.69	
0.20	D				0.45		65.54	
0.30- 0.45	B							
0.35	D							
0.40	ES							
0.40			PID=<0.1					
0.50- 1.00	B		mc=16%		1.10		64.89	
0.50	HV		Av=110kPa					
0.65	ES							
0.65			PID=<0.1					
0.80	D							
1.45	ES							
1.45			PID=<0.1					
1.50- 2.00	B							
1.50	D							
1.50	HV		Av=82kPa					
1.80	D							
2.50	D				2.60		63.39	
Excavation				Ground water				
Plant	JCB 3CX	Width (B)	0.60	Depth Observed	Depth of Pit	Details		
Date	21/07/2020	Length (C)	2.70			None encountered during excavation.		
Shoring	None.	Orientation	120 deg					
Stability	Stable during excavation.							
Remarks	ES sample = 2 x vial, 1 x plastic jar and 2 amber jar Radioactive screening at discrete sample depths, using a Thermo Scientific Mini 900E. No activity detected. Backfill details from base of hole: arisings up to ground level.						Logged by	MM
Symbols and abbreviations are explained on the accompanying key sheet.							Figure	1 of 1
All dimensions are in metres.							11/11/2020	
Logged in accordance with BS5930:2015							geotechnics	

Project	GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)	Engineer	WATERMAN INFRASTRUCTURE & ENVIRONMENT LIMITED		Trial Pit Project No	TP609 PC207899
Client	GRAVEN HILL VILLAGE DEVELOPMENT COMPANY LIMITED	National Grid Coordinates	458151.1	E	Ground Level	66.42 m OD
			220708.6	N		

Samples and Tests				Strata	Scale 1:50		
Depth	Type	Stratum No	Results	Description	Depth	Legend	Level m OD
				MADE GROUND: Dark brown slightly sandy slightly gravelly clay with many rootlets and roots (up to 10mm in diameter). Gravel is angular to subangular fine to coarse quartzite and brick.	G.L.		66.42
0.20	B				0.30		66.12
0.20	D						
0.20	ES		PID=<0.1				
0.20			Av=51kPa				
0.40	HV			Firm brown mottled grey slightly sandy CLAY with occasional rootlets.			
0.50	B						
0.50	D						
1.00	D						
1.00	ES						
1.00	HV		Av=66kPa				
1.00			PID=<0.1	Between 1.40-1.70m, with rare pockets (up to 50mm in size) of orangish brown silty sand.			
1.50	D		mc=21%				
1.50	HV		Av=39kPa	Between 1.50-1.80m, becoming soft.			
2.00	D						
2.00	HV		Av=54kPa				
2.50	D				2.60		63.82
2.50	HV		Av=75kPa	Firm dark grey slightly sandy CLAY with occasional decomposed organic matter (up to 5mm in size).			
2.70	B						
2.70	D		mc=33%	Below 2.70m, with many gypsum crystals (up to 5mm in size).			
3.00	HV		Av=83kPa				
3.50	D			Below 3.00m, becomes stiff with many shell fragments (up to 10mm in size).			
4.00	D						
4.50	D			End of Excavation	4.50		61.92

Excavation				Groundwater		
Plant	JCB 3CX	Width (B)	0.60	Depth Observed	Depth of Pit	Details
Date	21/07/2020	Length (C)	2.60	1.50	1.50	Seepage.
Shoring	None.	Orientation	130 deg	1.60	2.50	Moderate inflow.
Stability	Stable during excavation.					
		Date Backfilled	21/07/2020			

Remarks	AGS	Logged by
Symbols and abbreviations are explained on the accompanying key sheet.	ES sample = 2 x vial, 1 x plastic jar and 2 amber jar Radioactive screening at discrete sample depths, using a Thermo Scientific Mini 900E. No activity detected. Backfill details from base of hole: arisings up to ground level.	MJ
All dimensions are in metres.		Figure 1 of 1 11/11/2020

geotechnics

Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2) Engineer WATERMAN INFRASTRUCTURE & ENVIRONMENT LIMITED Trial Pit TP610 Project No PC207899

Client GRAVEN HILL VILLAGE DEVELOPMENT COMPANY LIMITED National Grid Coordinates 458174.7 E 220680.6 N Ground Level 67.02 m OD

Samples and Tests				Strata	Scale 1:50		
Depth	Type	Stratum No	Results	Description	Depth	Legend	Level m OD
0.15- 0.30	B			MADE GROUND: Concrete	G.L.		67.02
0.20	ES				0.15		66.87
0.20			PID=<0.1	MADE GROUND: Brown and reddish brown gravelly silty sand with a low cobble content of angular brick. Gravel is angular to subrounded fine to coarse brick, flint and limestone.	0.30		66.72
0.25	D						
0.30- 0.50	B				0.75		66.27
0.35	ES			Below 0.25m, with black ash.			
0.35			PID=<0.1				
0.50	D						
0.50	HV		Av=65kPa	MADE GROUND: Firm dark greenish grey mottled brown slightly sandy slightly gravelly clay with rare rootlets and occasional pockets (up to 25mm in size) of black ash and decomposed organic matter. Gravel is angular to subangular fine to coarse limestone and brick.	1.60		65.42
0.80- 1.20	B						
1.00	ES						
1.00	HV		Av=65kPa				
1.00			PID=<0.1				
1.10	D				2.10		64.92
1.60- 2.00	B		mc=23%	Firm grey mottled orangish brown slightly sandy CLAY with occasional gypsum crystals (up to 2mm in size), occasional shell fragments (up to 10mm in size), rare pockets (up to 3mm in size) of soft dark brown clay and occasional pockets (up to 40mm in size) of sandy clay.	2.50		64.52
1.70	D						
1.80	ES						
1.80	HV		Av=63kPa				
1.80			PID=<0.1				
2.10- 2.50	B			Firm orangish brown mottled grey CLAY with many pockets (up to 50mm in size) of orangish brown sandy clay.			
2.30	D						
				Firm thinly to thickly laminated brown mottled grey slightly sandy CLAY with and occasional pockets (up to 10mm in size) of light brown sandy clay and occasional gypsum crystals (up to 3mm in size).			
				End of Excavation			
Excavation				Ground water			
Plant	JCB 3CX	Width (B)	0.60	Depth Observed	Depth of Pit	Details	
Date	21/07/2020	Length (C)	2.50			None encountered during excavation.	
Shoring	None.	Orientation	150 deg				
Stability	Stable during excavation.			Date Backfilled	21/07/2020		
Remarks				Logged by			
ES sample = 2 x vial, 1 x plastic jar and 2 amber jar				MM			
Radioactive screening at discrete sample depths, using a Thermo Scientific Mini 900E. No activity detected.				Figure			
Backfill details from base of hole: arisings up to ground level.				1 of 1			
Symbols and abbreviations are explained on the accompanying key sheet.				11/11/2020			
All dimensions are in metres.				geotechnics			
Logged in accordance with BS5930:2015							

Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2) Engineer WATERMAN INFRASTRUCTURE & ENVIRONMENT LIMITED Trial Pit TP611 Project No PC207899

Client GRAVEN HILL VILLAGE DEVELOPMENT COMPANY LIMITED National Grid Coordinates 458200.1 E 220638.8 N Ground Level 68.38 m OD

Samples and Tests				Strata	Scale 1:50		
Depth	Type	Stratum No	Results	Description	Depth	Legend	Level m OD
G.L.					G.L.		68.38
0.20	D		PID=<0.1	MADE GROUND: Dark brown gravelly slightly silty sand with many rootlets and roots (up to 50mm in size). Gravel is angular to subangular fine to coarse flint and brick.	0.25		68.13
0.20	HV		Av=130kPa				
0.40	B						
0.50	D			MADE GROUND: Stiff light brown mottled grey slightly sandy clay with many roots (up to 4mm in diameter).			
1.00	B			At 0.65m, roots absent.	1.00		67.38
1.00	D						
1.00	ES			At 0.70m, an angular brick cobble.			
1.00	HV		Av=130kPa		1.45		66.93
1.00	B		PID=<0.1	POSSIBLE MADE GROUND: Stiff light grey mottled light brown slightly sandy CLAY with occasional relic rootlets.	1.90		66.48
1.50	D						
2.00	B			Stiff light grey and brown slightly sandy CLAY with occasional relic rootlets.			
2.00	D						
2.00	ES			Below 1.80m, becoming dark grey.			
2.50	D		PID=<0.1		2.90		65.48
				Stiff dark greyish brown mottled light yellow sandy CLAY.			
				Stiff grey slightly sandy CLAY with occasional shell fragments (up to 15mm in size).			
3.30	B						
3.30	D						
4.00	D						
4.50	D			End of Excavation	4.50		63.88

Excavation				Groundwater		
Plant	JCB 3CX	Width (B)	0.60	Depth Observed	Depth of Pit	Details
Date	24/07/2020	Length (C)	3.20			
Shoring	None.	Orientation	110 deg			None encountered during excavation.
Stability	Stable during excavation.	Date Backfilled	24/07/2020			

Remarks	ES sample = 2 x vial, 1 x plastic jar and 2 amber jar	Logged by	MJ
AGS	Radioactive screening at discrete sample depths, using a Thermo Scientific Mini 900E. No activity detected.	Figure	1 of 1
	Backfill details from base of hole: arisings up to ground level.		11/11/2020
All dimensions are in metres. Logged in accordance with BS5930:2015			

Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)	Engineer WATERMAN INFRASTRUCTURE & ENVIRONMENT LIMITED	Trial Pit TP302 Project No PC207899
Client GRAVEN HILL VILLAGE DEVELOPMENT COMPANY LIMITED	National Grid Coordinates 458196.6 E 220740.0 N	Ground Level 66.90 m OD

Samples and Tests				Strata	Scale 1:50		
Depth	Type	Stratum No	Results	Description	Depth	Legend	Level m OD
				MADE GROUND: Reinforced concrete.	G.L.		66.90
				MADE GROUND: Firm dark reddish brown slightly sandy clay.	0.20		66.70
0.40	B				0.25		66.65
0.40	ES				0.50		66.40
0.40			PID=<0.1				
0.50	HV		Av=64kPa	MADE GROUND: Black very gravelly silty sand with a medium cobble content of angular to subangular limestone. Gravel is angular to subangular fine to coarse limestone.			
0.60	D						
0.60	ES						
0.60			PID=<0.1				
1.00	B			Firm dark greenish grey mottled orangish brown slightly sandy CLAY.			
1.00	D						
1.00	ES						
1.00	HV		Av=54kPa	Below 0.75m, becoming light grey mottled light orangish brown.	1.80		65.10
1.00			PID=<0.1				
1.50	D						
1.50	HV		Av=60kPa	Below 1.50m, becoming dark grey.			
2.00	B						
2.00	D						
2.00	ES			Firm dark greyish brown, occasionally mottled dark reddish brown, slightly sandy CLAY with many relict rootlets and many gypsum crystals (up to 4mm in size).			
2.00	HV		Av=61kPa				
2.00			PID=<0.1				
2.50	D						
2.70	HV		Av=82kPa				
3.00	D						
					3.40		63.50
3.50	HV		Av=111kPa	Stiff grey slightly sandy CLAY with occasional gypsum crystals (up to 5mm in size) and occasional shell fragments (up to 50mm in size).			
3.80	B						
3.80	D						
					4.50		62.40
4.30	D						
				End of Excavation			

Excavation				Groundwater		
Plant	JCB 3CX	Width (B)	0.60	Depth Observed	Depth of Pit	Details
Date	24/07/2020	Length (C)	3.20	0.50	0.60	Slow inflow.
Shoring	None.	Orientation	111 deg			
		Date Backfilled	24/07/2020			
Stability	Stable during excavation.					

Remarks  ES sample = 2 x vial, 1 x plastic jar and 2 amber jar Radioactive screening at discrete sample depths, using a Thermo Scientific Mini 900E. No activity detected. Backfill details from base of hole: arisings up to ground level.	Logged by MJ Figure 1 of 1 11/11/2020 	All dimensions are in metres. Logged in accordance with BS5930:2015
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Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)	Engineer WATERMAN INFRASTRUCTURE & ENVIRONMENT LIMITED	Trial Pit TP301 Project No PC207899
Client GRAVEN HILL VILLAGE DEVELOPMENT COMPANY LIMITED	National Grid Coordinates 458053.2 E 220807.1 N	Ground Level 64.74 m OD

Samples and Tests				Strata	Scale 1:50		
Depth	Type	Stratum No	Results	Description	Depth	Legend	Level m OD
				MADE GROUND: Dark brown slightly sandy slightly gravelly clay with many rootlets and roots (up to 8mm in diameter). Gravel is angular to subrounded fine to coarse quartzite and brick.	G.L.		64.74
0.20	B				0.25		64.49
0.20	D						
0.20	ES						
0.20			PID=<0.1				
0.50	B			Firm brown mottled grey sandy SILT with occasional rootlets.			
0.50	D						
0.50	ES						
0.50	HV		Av=118kPa	Below 0.40m, becoming brown mottled light grey.			
0.50			PID=<0.1				
1.00	B			Between 0.80-1.60m, grading sandy silt.			
1.00	D		mc=16%				
1.00	ES			Below 1.60m, with rare pockets (up to 10mm in size) of sandy silt.	1.70		63.04
1.00	HV		Av=82kPa				
1.00			PID=<0.1				
1.50	HV		Av=61kPa	Firm dark grey slightly sandy CLAY with occasional shell fragments (50mm in size) and occasional decomposed organic material (up to 20mm in size).			
1.60	B						
1.60	D						
1.80	B						
1.80	D						
2.00	HV		Av=89kPa				
2.50	D						
2.50	HV		Av=100kPa				
3.00	D			Below 3.00m, becomes stiff with many shell fragments (up to 10mm in size).			
3.50	D						
3.50	HV		Av=76kPa				
4.00	D						
4.00	HV		Av=96kPa				
4.50	D			End of Excavation	4.50		60.24

Excavation				Groundwater		
Plant JCB 3CX	Width (B) 0.60	Depth Observed 1.60	Depth of Pit 1.60	Details		
Date 21/07/2020	Length (C) 2.70	1.80	1.80	Seepage.		
Shoring None.	Orientation 210 deg					
Stability Stable during excavation.	Date Backfilled 21/07/2020	Seepage.				

Remarks ES sample = 2 x vial, 1 x plastic jar and 2 amber jar Radioactive screening at discrete sample depths, using a Thermo Scientific Mini 900E. No activity detected. Backfill details from base of hole: arisings up to ground level.	Logged by MJ Figure 1 of 1 11/11/2020	
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Symbols and abbreviations are explained on the accompanying key sheet.
All dimensions are in metres. Logged in accordance with BS5930:2015

DATA SHEET - Symbols and Abbreviations used on Records



Sample Types

B	Bulk disturbed sample
BLK	Block sample
C	Core sample
D	Small disturbed sample (tub/jar)
E	Environmental test sample
ES	Environmental soil sample
EW	Environmental water sample
G	Gas sample
L	Liner sample
LB	Large bulk disturbed sample
P	Piston sample (PF - failed P sample)
TW	Thin walled push in sample
U	Open Tube - 102mm diameter with blows to take sample. (UF - failed U sample)
UT	Thin wall open drive tube sampler - 102mm diameter with blows to take sample. (UTF - failed UT sample)
V	Vial sample
W	Water sample
#	Sample Not Recovered

Insitu Testing / Properties

CBRP	CBR using TRL probe
CHP	Constant Head Permeability Test
COND	Electrical conductivity
TC	Thermal Conductivity
TR	Thermal Resistivity
HV	Strength from Hand Vane
ICBR	CBR Test
IDEN	Density Test
IRES	Resistivity Test
MEX	CBR using Mexecon Probe Test
PID	Photo Ionisation Detection (ppm)
PKR	Packer Permeability Test
PLT	Plate Load Test
PP	Strength from Pocket Penetrometer
Temp	Temperature
VHP	Variable Head Permeability Test
VN	Strength from Insitu Vane
w%	Water content
(All other strengths from undrained triaxial testing)	
S	Standard Penetration Test (SPT)
C	SPT with cone
N	SPT Result
-/-	Blows/penetration (mm) after seating drive
-*/-(mm)	Total blows/penetration
()	Extrapolated value

Groundwater

Water Strike	
Depth Water Rose To	

Instrumentation

Seal

Filter

Seal

Strata

Made Ground Granular
Made Ground Cohesive
Topsoil
Cobbles and Boulders
Gravel
Sand
Silt
Clay
Peat

Note: Composite soil types shown by combined symbols

Chalk

Limestone

Sandstone

Coal

Strata, Continued

Mudstone

Siltstone

Metamorphic Rock

Fine Grained

Medium Grained

Coarse Grained

Igneous Rock

Fine Grained

Medium Grained

Coarse Grained

Backfill Materials

Arisings

Bentonite Seal

Concrete

Fine Gravel Filter

General Fill

Gravel Filter

Grout

Sand Filter

Tarmacadam

Rotary Core

RQD Rock Quality Designation (% of intact core >100mm)

FRACTURE INDEX Fractures/metre

FRACTURE SPACING (m) Maximum Minimum

NI Non-intact core

NR No core recovery

AZCL Assumed zone of core loss

(where core recovery is unknown it is assumed to be at the base of the run)

APPENDIX 7

Trial Pit Records

Fieldwork Results - SPT Results Summary

Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)

Project No PC207899

Client Graven Hill Village Development Company Limited

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'				
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50
TP325	2.30	66.59	S	-	1	1	2	2	2	4	10	*				
TP325	4.30	64.59	S	-	2	2	3	4	5	5	17		*			
Driller			David Cowling				Remarks									
Hammer No.			AR1962													
Energy Ratio, Er (%)			66.00													
Calibration Date			31/10/2019													

-/- Blows/penetration (mm) after seating

-*/- Total blows/penetration (mm)

SWP Penetration under own weight (mm)

S - Standard Penetration Test (SPT)

C - SPT with cone

L - Split Spoon with liner used

GEOTECHNICS

Project No PC207899

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'					
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50	
TP323	2.40	67.04	S	-	1	1	2	2	2	2	8	*					
TP323	4.30	65.14	S	-	1	2	3	3	4	6	16		*				
Driller			David Cowling				Remarks										
Hammer No.			AR1962														
Energy Ratio, Er (%)			66.00														
Calibration Date			31/10/2019														

S - Standard Penetration Test (SPT)
C - SPT with cone
L - Split Spoon with liner used

Project No PC207899

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'						
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50		
BHTP434	1.20	70.34	S	-	1	1	1	1	2	1	5	*						
BHTP434	2.50	69.04	S	-	2	2	2	3	4	5	14		*					
BHTP434	4.50	67.04	S	-	3	4	4	5	6	6	21			*				
Driller			Matt Roberts				Remarks											
Hammer No.			AR2145															
Energy Ratio, Er (%)			64.00															
Calibration Date			19/05/2020															

S - Standard Penetration Test (SPT)
C - SPT with cone
L - Split Spoon with liner used

Fieldwork Results - SPT Results Summary

Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)

Project No PC207899

Client Graven Hill Village Development Company Limited

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'					
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50	
BHTP418	1.20	69.11	S	-	-	-	-	1	-	1	2	*					
BHTP418	2.50	67.81	S	-	1	1	2	3	3	4	12		*				
BHTP418	3.50	66.81	S	-	2	3	3	4	4	4	15		*				
BHTP418	6.00	64.31	S	-	3	4	5	5	5	6	21			*			
Driller			Matt Roberts			Remarks											
Hammer No.			AR2145														
Energy Ratio, Er (%)			64.00														
Calibration Date			19/05/2020														

-/- Blows/penetration (mm) after seating

-*/- Total blows/penetration (mm)

SWP Penetration under own weight (mm)

S - Standard Penetration Test (SPT)

C - SPT with cone

L - Split Spoon with liner used

GEOTECHNICS

Fieldwork Results - SPT Results Summary

Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)

Project No PC207899

Client Graven Hill Village Development Company Limited

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'						
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50		
BHTP417	1.20	69.74	S	-	1	1	1	2	2	2	7	*						
BHTP417	3.50	67.44	S	-	1	2	3	3	3	4	13		*					
BHTP417	6.00	64.94	S	-	3	3	4	5	6	6	21			*				
Driller			Matt Roberts				Remarks											
Hammer No.			AR2145															
Energy Ratio, Er (%)			64.00															
Calibration Date			19/05/2020															

-/- Blows/penetration (mm) after seating

-*/- Total blows/penetration (mm)

SWP Penetration under own weight (mm)

S - Standard Penetration Test (SPT)

C - SPT with cone

L - Split Spoon with liner used

GEOTECHNICS

Project No PC207899

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'						
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50		
BHTP416	1.20	69.80	S	-	1	1	1	1	2	2	6	*						
BHTP416	2.50	68.50	S	-	2	2	3	3	3	4	13		*					
BHTP416	4.50	66.50	S	-	3	3	4	4	4	5	17		*					
Driller			Matt Roberts				Remarks											
Hammer No.			AR2145															
Energy Ratio, Er (%)			64.00															
Calibration Date			19/05/2020															

S - Standard Penetration Test (SPT)
C - SPT with cone
L - Split Spoon with liner used

Project No PC207899

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'						
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50		
BHTP415	1.20	70.33	S	-	1	-	-	1	-	-	1	*						
BHTP415	3.50	68.03	S	-	2	3	3	3	4	4	14		*					
BHTP415	6.00	65.53	S	-	3	3	4	4	5	8	21			*				
Driller			Matt Roberts				Remarks											
Hammer No.			AR2145															
Energy Ratio, Er (%)			64.00															
Calibration Date			19/05/2020															

S - Standard Penetration Test (SPT)
C - SPT with cone
L - Split Spoon with liner used

Project No PC207899

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'					
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50	
BHTP414	1.20	70.26	S	-	1	1	1	1	2	2	6	*					
BHTP414	3.40	68.06	S	-	2	3	4	4	4	4	16		*				
BHTP414	6.00	65.46	S	-	4	5	6	6	6	6	24			*			
Driller			Kris Roebuck				Remarks										
Hammer No.			AR2475														
Energy Ratio, Er (%)			67.00														
Calibration Date			16/10/2020														

S - Standard Penetration Test (SPT)
C - SPT with cone
L - Split Spoon with liner used

Project No PC207899

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'					
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50	
BH819	1.30	63.48	S	-	1	1	1	1	1	2	5	*					
BH819	3.30	61.48	S	-	2	2	4	5	5	6	20		*				
BH819	5.50	59.28	S	-	2	4	6	7	8	10	31			*			
Driller			David Cowling				Remarks										
Hammer No.			AR1962														
Energy Ratio, Er (%)			66.00														
Calibration Date			31/10/2019														

S - Standard Penetration Test (SPT)
C - SPT with cone
L - Split Spoon with liner used

Project No PC207899

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'					
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50	
BH818	2.20	61.98	S	-	1/150	0/0	1	1	1	2	5	*					
BH818	4.10	60.08	S	-	1	2	3	3	4	4	14		*				
Driller			David Cowling				Remarks										
Hammer No.			AR1962														
Energy Ratio, Er (%)			66.00														
Calibration Date			31/10/2019														

S - Standard Penetration Test (SPT)
C - SPT with cone
L - Split Spoon with liner used

Project No PC207899

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'					
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50	
BH815	1.20	65.03	S	-	2	2	2	2	2	3	9	*					
BH815	3.40	62.83	S	-	3	4	4	4	5	5	18		*				
BH815	6.00	60.23	S	-	5	6	7	7	8	8	30			*			
Driller			Kris Roebuck				Remarks										
Hammer No.			AR2475														
Energy Ratio, Er (%)			67.00														
Calibration Date			16/10/2020														

S - Standard Penetration Test (SPT)
C - SPT with cone
L - Split Spoon with liner used

Project No PC207899

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'					
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50	
BH814	2.20	64.26	S	-	1/150	/0	1	1	2	3	7	*					
BH814	4.50	61.96	S	-	2	3	4	5	6	7	22			*			
Driller			David Cowling				Remarks										
Hammer No.			AR1962														
Energy Ratio, Er (%)			66.00														
Calibration Date			31/10/2019														

S - Standard Penetration Test (SPT)
C - SPT with cone
L - Split Spoon with liner used

Project No PC207899

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'					
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50	
BH813	1.20	67.90	S	-	1	2	1	2	2	2	7	*					
BH813	3.20	65.90	S	-	1	2	3	3	3	4	13		*				
BH813	5.50	63.60	S	-	2	3	4	4	6	8	22			*			
Driller			David Cowling				Remarks										
Hammer No.			AR1962														
Energy Ratio, Er (%)			66.00														
Calibration Date			31/10/2019														

S - Standard Penetration Test (SPT)
C - SPT with cone
L - Split Spoon with liner used

Fieldwork Results - SPT Results Summary

Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)

Project No PC207899

Client Graven Hill Village Development Company Limited

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'				
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50
BH812	2.20	67.11	S	-	1	1	1	2	2	2	7	*				
BH812	4.20	65.11	S	-	2	2	2	3	2	3	10	*				
Driller			David Cowling			Remarks										
Hammer No.			AR1962													
Energy Ratio, Er (%)			66.00													
Calibration Date			31/10/2019													

Fieldwork Results - SPT Results Summary

Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)

Project No PC207899

Client Graven Hill Village Development Company Limited

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'				
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50
BH809	1.20	65.25	S	-	1	3	3	2	3	3	11	*				
BH809	3.50	62.95	S	-	5	6	6	10	12	13	41				*	
BH809	6.00	60.45	S	-	4	5	6	8	9	10	33				*	
Driller			Matt Roberts			Remarks										
Hammer No.			AR2145													
Energy Ratio, Er (%)			64.00													
Calibration Date			19/05/2020													

-/- Blows/penetration (mm) after seating

-*/- Total blows/penetration (mm)

SWP Penetration under own weight (mm)

S - Standard Penetration Test (SPT)

C - SPT with cone

L - Split Spoon with liner used

GEOTECHNICS

Fieldwork Results - SPT Results Summary

Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)

Project No PC207899

Client Graven Hill Village Development Company Limited

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'				
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50
BH808	1.20	65.43	S	-	1	1	2	3	3	4	12	*				
BH808	2.40	64.23	S	-	1	1	1	1	2	2	6	*				
BH808	3.50	63.13	S	-	2	3	3	4	6	6	19		*			
BH808	6.00	60.63	S	-	5	5	6	7	8	9	30			*		
Driller			Matt Roberts			Remarks										
Hammer No.			AR2145													
Energy Ratio, Er (%)			64.00													
Calibration Date			19/05/2020													

-/- Blows/penetration (mm) after seating

-*/- Total blows/penetration (mm)

SWP Penetration under own weight (mm)

S - Standard Penetration Test (SPT)

C - SPT with cone

L - Split Spoon with liner used

GEOTECHNICS

Fieldwork Results - SPT Results Summary

Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)

Project No PC207899

Client Graven Hill Village Development Company Limited

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'						
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50		
BH807	2.30	67.55	S	-	2	2	3	3	4	5	15		*					
BH807	4.50	65.35	S	-	3	3	4	5	7	8	24			*				
Driller			Matt Roberts				Remarks											
Hammer No.			AR2145															
Energy Ratio, Er (%)			64.00															
Calibration Date			19/05/2020															

-/- Blows/penetration (mm) after seating

-*/- Total blows/penetration (mm)

SWP Penetration under own weight (mm)

S - Standard Penetration Test (SPT)

C - SPT with cone

L - Split Spoon with liner used

GEOTECHNICS

Project No PC207899

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'					
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50	
BH804	1.20	66.64	S	-	1	1	1	2	1	1	5	*					
BH804	2.40	65.44	S	-	1	1	1	1	2	2	6	*					
BH804	4.50	63.34	S	-	3	4	4	6	7	9	26			*			
Driller			Matt Roberts				Remarks										
Hammer No.			AR2145														
Energy Ratio, Er (%)			64.00														
Calibration Date			19/05/2020														

S - Standard Penetration Test (SPT)
C - SPT with cone
L - Split Spoon with liner used

Project No PC207899

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'					
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50	
BH803	2.20	67.85	S	-	1	2	2	2	3	2	9	*					
BH803	4.50	65.55	S	-	3	4	4	5	6	7	22			*			
Driller			Matt Roberts				Remarks										
Hammer No.			AR2145														
Energy Ratio, Er (%)			64.00														
Calibration Date			19/05/2020														

S - Standard Penetration Test (SPT)
C - SPT with cone
L - Split Spoon with liner used

Fieldwork Results - SPT Results Summary

Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)

Project No PC207899

Client Graven Hill Village Development Company Limited

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'						
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50		
BH802	1.20	66.88	S	-	1	1	2	2	2	2	8	*						
BH802	3.50	64.58	S	-	3	4	4	5	6	8	23			*				
BH802	6.00	62.08	S	-	3	4	4	5	8	10	27			*				
Driller			Matt Roberts				Remarks											
Hammer No.			AR2145															
Energy Ratio, Er (%)			64.00															
Calibration Date			19/05/2020															

-/- Blows/penetration (mm) after seating

-*/- Total blows/penetration (mm)

SWP Penetration under own weight (mm)

S - Standard Penetration Test (SPT)

C - SPT with cone

L - Split Spoon with liner used

GEOTECHNICS

Project No PC207899

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'				
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50
BH801	1.20	68.65	S	-	1	2	3	2	3	3	11	*				
BH801	3.50	66.35	S	-	1	2	2	2	3	3	10	*				
BH801	6.00	63.85	S	-	4	4	6	8	8	9	31			*		
Driller			Matt Roberts				Remarks									
Hammer No.			AR2145													
Energy Ratio, Er (%)			64.00													
Calibration Date			19/05/2020													

S - Standard Penetration Test (SPT)
C - SPT with cone
L - Split Spoon with liner used

Fieldwork Results - SPT Results Summary

Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)

Project No PC207899

Client Graven Hill Village Development Company Limited

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'						
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50		
BH705	2.20	65.38	S	-	1	2	2	2	2	3	9	*						
BH705	4.40	63.18	S	-	3	5	7	7	8	11	33				*			
Driller			David Cowling				Remarks											
Hammer No.			AR1962															
Energy Ratio, Er (%)			66.00															
Calibration Date			31/10/2019															

-/- Blows/penetration (mm) after seating

-*/- Total blows/penetration (mm)

SWP Penetration under own weight (mm)

S - Standard Penetration Test (SPT)

C - SPT with cone

L - Split Spoon with liner used

GEOTECHNICS

Project No PC207899

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'					
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50	
BH704	1.20	68.28	S	-	1	2	2	3	2	2	9	*					
BH704	2.30	67.18	S	-	1	2	3	3	3	3	12	*					
BH704	4.50	64.98	S	-	4	5	5	5	6	8	24			*			
Driller			Matt Roberts				Remarks										
Hammer No.			AR2145														
Energy Ratio, Er (%)			64.00														
Calibration Date			19/05/2020														

S - Standard Penetration Test (SPT)
C - SPT with cone
L - Split Spoon with liner used

Project No PC207899

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'					
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50	
BH703	2.40	67.40	S	-	1	1	1	2	2	3	8	*					
BH703	4.50	65.30	S	-	7	7	9	9	13	13	44					*	
BH703	6.00	63.80	S	-	7	9	10	10	12	13	45					*	
Driller			Matt Roberts				Remarks										
Hammer No.			AR2145														
Energy Ratio, Er (%)			64.00														
Calibration Date			19/05/2020														

S - Standard Penetration Test (SPT)
C - SPT with cone
L - Split Spoon with liner used

Project No PC207899

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'					
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50	
BH702	2.30	68.19	S	-	1	2	2	2	3	2	9	*					
BH702	4.50	65.99	S	-	3	4	4	5	8	9	26			*			
Driller			Matt Roberts				Remarks										
Hammer No.			AR2145														
Energy Ratio, Er (%)			64.00														
Calibration Date			19/05/2020														

S - Standard Penetration Test (SPT)
C - SPT with cone
L - Split Spoon with liner used

Project No PC207899

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'						
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50		
BH701	1.20	69.73	S	-	1	1	2	1	1	2	6	*						
BH701	3.40	67.53	S	-	2	2	2	3	4	4	13		*					
BH701	6.00	64.93	S	-	2	4	5	6	7	7	25			*				
Driller			David Cowling				Remarks											
Hammer No.			AR1962															
Energy Ratio, Er (%)			66.00															
Calibration Date			31/10/2019															

S - Standard Penetration Test (SPT)
C - SPT with cone
L - Split Spoon with liner used

Fieldwork Results - SPT Results Summary

Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)

Project No PC207899

Client Graven Hill Village Development Company Limited

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'					
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50	
BH611	1.20	64.47	S	-	1	1	1	2	3	2	8	*					
BH611	2.50	63.17	S	-	1	2	2	3	3	3	11	*					
BH611	4.50	61.17	S	-	3	3	7	7	9	11	34				*		
BH611	6.00	59.67	S	-	2	3	4	6	9	13	32				*		
Driller			Matt Roberts				Remarks										
Hammer No.			AR2145														
Energy Ratio, Er (%)			64.00														
Calibration Date			19/05/2020														

-/- Blows/penetration (mm) after seating

-*/- Total blows/penetration (mm)

SWP Penetration under own weight (mm)

S - Standard Penetration Test (SPT)

C - SPT with cone

L - Split Spoon with liner used

GEOTECHNICS

Fieldwork Results - SPT Results Summary

Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)

Project No PC207899

Client Graven Hill Village Development Company Limited

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'					
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50	
BH610	1.20	63.41	S	-	1	1	1	2	2	2	7	*					
BH610	3.00	61.61	S	-	2	2	3	3	3	4	13		*				
BH610	5.00	59.61	S	-	3	4	4	4	5	5	18		*				
BH610	8.00	56.61	S	-	8	9	10	10	10	12	42					*	
BH610	9.50	55.11	S	-	7	8	9	15	26/60		50/210						>
Driller			Kris Roebuck				Remarks										
Hammer No.			AR2475														
Energy Ratio, Er (%)			67.00														
Calibration Date			16/10/2020														

-/- Blows/penetration (mm) after seating

-*/- Total blows/penetration (mm)

SWP Penetration under own weight (mm)

S - Standard Penetration Test (SPT)

C - SPT with cone

L - Split Spoon with liner used

GEOTECHNICS

Fieldwork Results - SPT Results Summary

Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)

Project No PC207899

Client Graven Hill Village Development Company Limited

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'					
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50	
BH609	1.30	63.14	S	-	1	-	1	1	2	2	6	*					
BH609	3.50	60.94	S	-	2	2	3	4	4	5	16		*				
BH609	6.00	58.44	S	-	3	4	5	5	6	8	24			*			
BH609	9.00	55.44	S	-	4	5	8	11	19/40	12/40	50/230						>
BH609	10.00	54.44	S	-	11	14/40	29	21/55			50/130						>
Driller			Matt Roberts				Remarks										
Hammer No.			AR2145														
Energy Ratio, Er (%)			64.00														
Calibration Date			19/05/2020														

-/- Blows/penetration (mm) after seating

-*/- Total blows/penetration (mm)

SWP Penetration under own weight (mm)

S - Standard Penetration Test (SPT)

C - SPT with cone

L - Split Spoon with liner used

GEOTECHNICS

Fieldwork Results - SPT Results Summary

Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)

Project No PC207899

Client Graven Hill Village Development Company Limited

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'					
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50	
BH608	1.20	62.96	S	-	1	1	1	2	2	2	7	*					
BH608	3.00	61.16	S	-	3	4	4	4	5	6	19		*				
BH608	5.00	59.16	S	-	3	4	5	5	6	6	22			*			
BH608	8.00	56.16	S	-	8	9	10	10	10	10	40				*		
BH608	9.50	54.66	S	-	8	9	10	11	11	10	42				*		
Driller			Kris Roebuck			Remarks											
Hammer No.			AR2475														
Energy Ratio, Er (%)			67.00														
Calibration Date			16/10/2020														

-/- Blows/penetration (mm) after seating

-*/- Total blows/penetration (mm)

SWP Penetration under own weight (mm)

S - Standard Penetration Test (SPT)

C - SPT with cone

L - Split Spoon with liner used

GEOTECHNICS

Fieldwork Results - SPT Results Summary

Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)

Project No PC207899

Client Graven Hill Village Development Company Limited

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'						
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50		
BH607	1.20	63.63	S	-	1	1	1	1	2	3	7	*						
BH607	2.50	62.33	S	-	2	2	3	3	4	5	15		*					
BH607	4.50	60.33	S	-	4	4	5	5	5	7	22			*				
Driller			Matt Roberts				Remarks											
Hammer No.			AR2145															
Energy Ratio, Er (%)			64.00															
Calibration Date			19/05/2020															

-/- Blows/penetration (mm) after seating

-*/- Total blows/penetration (mm)

SWP Penetration under own weight (mm)

S - Standard Penetration Test (SPT)

C - SPT with cone

L - Split Spoon with liner used

GEOTECHNICS

Project No PC207899

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'					
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50	
BH606	1.20	63.97	S	-	1	1	1	2	2	2	7	*					
BH606	3.50	61.67	S	-	4	4	5	6	7	8	26			*			
BH606	6.00	59.17	S	-	6	6	7	8	8	9	32				*		
Driller			Matt Roberts				Remarks										
Hammer No.			AR2145														
Energy Ratio, Er (%)			64.00														
Calibration Date			19/05/2020														

S - Standard Penetration Test (SPT)
C - SPT with cone
L - Split Spoon with liner used

Project No PC207899

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'						
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50		
BH605	1.20	68.03	S	-	1	1	1	2	2	2	7	*						
BH605	3.40	65.83	S	-	3	3	3	3	4	4	14		*					
BH605	6.00	63.23	S	-	5	6	7	7	7	7	28			*				
Driller			Kris Roebuck				Remarks											
Hammer No.			AR2475															
Energy Ratio, Er (%)			67.00															
Calibration Date			16/10/2020															

S - Standard Penetration Test (SPT)
C - SPT with cone
L - Split Spoon with liner used

Project No PC207899

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'					
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50	
BH604	1.20	68.03	S	-	1	1	1	1	1	2	5	*					
BH604	3.40	65.83	S	-	1	1	2	2	3	3	10	*					
BH604	5.50	63.73	S	-	2	5	7	7	8	8	30			*			
Driller			David Cowling				Remarks										
Hammer No.			AR1962														
Energy Ratio, Er (%)			66.00														
Calibration Date			31/10/2019														

S - Standard Penetration Test (SPT)
C - SPT with cone
L - Split Spoon with liner used

Fieldwork Results - SPT Results Summary

Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)

Project No PC207899

Client Graven Hill Village Development Company Limited

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'				
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50
BH603	1.20	67.50	S	-	1	2	2	2	3	3	10	*				
BH603	3.50	65.20	S	-	3	3	4	4	4	5	17		*			
BH603	5.80	62.90	S	-	3	4	5	5	5	6	21		*			
Driller			Matt Roberts			Remarks										
Hammer No.			AR2145													
Energy Ratio, Er (%)			64.00													
Calibration Date			19/05/2020													

-/- Blows/penetration (mm) after seating

-*/- Total blows/penetration (mm)

SWP Penetration under own weight (mm)

S - Standard Penetration Test (SPT)

C - SPT with cone

L - Split Spoon with liner used

GEOTECHNICS

Project No PC207899

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'					
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50	
BH602	2.30	64.83	S	-	1	-	1	1	1	2	5	*					
BH602	4.20	62.93	S	-	2	4	4	5	6	7	22			*			
Driller			David Cowling				Remarks										
Hammer No.			AR1962														
Energy Ratio, Er (%)			66.00														
Calibration Date			31/10/2019														

S - Standard Penetration Test (SPT)
C - SPT with cone
L - Split Spoon with liner used

Fieldwork Results - SPT Results Summary

Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)

Project No PC207899

Client Graven Hill Village Development Company Limited

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'				
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50
BH601	1.20	65.84	S	-	5	6	7	7	7	8	29			*		
BH601	2.30	64.74	S	-	2	3	3	3	3	4	13		*			
BH601	4.50	62.54	S	-	4	5	5	5	6	6	22			*		
Driller			Kris Roebuck			Remarks										
Hammer No.			AR2475													
Energy Ratio, Er (%)			67.00													
Calibration Date			16/10/2020													

-/- Blows/penetration (mm) after seating

-*/- Total blows/penetration (mm)

SWP Penetration under own weight (mm)

S - Standard Penetration Test (SPT)

C - SPT with cone

L - Split Spoon with liner used

GEOTECHNICS

Project No PC207899

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'					
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50	
BH516	1.20	74.80	S	-	1	1	1	1	2	3	7	*					
BH516	3.50	72.50	S	-	1	1	2	3	3	3	11	*					
BH516	5.50	70.50	S	-	2	4	5	7	8	8	28			*			
Driller			David Cowling				Remarks										
Hammer No.			AR1962														
Energy Ratio, Er (%)			66.00														
Calibration Date			31/10/2019														

S - Standard Penetration Test (SPT)
C - SPT with cone
L - Split Spoon with liner used

Project No PC207899

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'					
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50	
BH515	1.20	74.04	S	-	1	2	2	2	2	2	8	*					
BH515	3.30	71.94	S	-	3	4	4	4	5	5	18		*				
BH515	6.00	69.24	S	-	5	6	6	6	7	6	25			*			
Driller			Kris Roebuck				Remarks										
Hammer No.			AR2475														
Energy Ratio, Er (%)			67.00														
Calibration Date			16/10/2020														

S - Standard Penetration Test (SPT)
C - SPT with cone
L - Split Spoon with liner used

Project No PC207899

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'					
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50	
BH514X	1.20	72.50	S	-	1	1	2	2	2	2	8	*					
BH514X	3.40	70.30	S	-	3	3	4	4	4	5	17		*				
BH514X	6.00	67.70	S	-	5	6	7	8	8	9	32				*		
Driller			Kris Roebuck				Remarks										
Hammer No.			AR2475														
Energy Ratio, Er (%)			67.00														
Calibration Date			16/10/2020														

S - Standard Penetration Test (SPT)
C - SPT with cone
L - Split Spoon with liner used

Project No PC207899

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'					
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50	
BH514	2.00	74.23	S	-	1	2	2	2	2	3	9	*					
BH514	4.60	71.63	S	-	25/30		50/30				50/30						>
Driller			Kris Roebuck				Remarks										
Hammer No.			AR2475														
Energy Ratio, Er (%)			67.00														
Calibration Date			16/10/2020														

S - Standard Penetration Test (SPT)
C - SPT with cone
L - Split Spoon with liner used

Fieldwork Results - SPT Results Summary

Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)

Project No PC207899

Client Graven Hill Village Development Company Limited

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'				
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50
BH513	2.20	80.80	S	-	1	2	2	3	3	4	12	*				
BH513	4.20	78.80	S	-	1	2	2	3	3	3	11	*				
BH513	6.70	76.30	S	-	2	4	5	5	7	9	26			*		
BH513	9.50	73.50	S	-	4	6	7	8	8	14	37				*	
Driller			David Cowling			Remarks										
Hammer No.			AR1962													
Energy Ratio, Er (%)			66.00													
Calibration Date			31/10/2019													

-/- Blows/penetration (mm) after seating

-*/- Total blows/penetration (mm)

SWP Penetration under own weight (mm)

S - Standard Penetration Test (SPT)

C - SPT with cone

L - Split Spoon with liner used

GEOTECHNICS

Project No PC207899

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'				
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50
BH512X	2.40	71.45	S	-	2	2	2	3	2	3	10	*				
BH512X	4.50	69.35	S	-	3	3	4	5	6	6	21		*			
Driller			Matt Roberts				Remarks									
Hammer No.			AR2145													
Energy Ratio, Er (%)			64.00													
Calibration Date			19/05/2020													

S - Standard Penetration Test (SPT)
C - SPT with cone
L - Split Spoon with liner used

Fieldwork Results - SPT Results Summary

Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)

Project No PC207899

Client Graven Hill Village Development Company Limited

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'				
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50
BH512	1.20	81.74	S	-	2	2	2	3	2	3	10	*				
BH512	3.50	79.44	S	-	3	3	3	4	4	4	15	*				
BH512	5.60	77.34	S	-	2	3	3	2	3	4	12	*				
BH512	8.50	74.44	S	-	5	6	7	9	9	11	36				*	
Driller			Matt Roberts				Remarks									
Hammer No.			AR2145													
Energy Ratio, Er (%)			64.00													
Calibration Date			19/05/2020													

-/- Blows/penetration (mm) after seating

-*/- Total blows/penetration (mm)

SWP Penetration under own weight (mm)

S - Standard Penetration Test (SPT)

C - SPT with cone

L - Split Spoon with liner used

GEOTECHNICS

Project No PC207899

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'					
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50	
BH511	1.20	76.89	S	-	2	2	2	2	2	3	9	*					
BH511	3.00	75.09	S	-	2	2	2	3	3	3	11	*					
BH511	5.00	73.09	S	-	2	3	4	5	7	7	23			*			
Driller			Kris Roebuck				Remarks										
Hammer No.			AR2475														
Energy Ratio, Er (%)			67.00														
Calibration Date			16/10/2020														

S - Standard Penetration Test (SPT)
C - SPT with cone
L - Split Spoon with liner used

Project No PC207899

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'				
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50
BH510	1.20	76.43	S	-	1	2	2	3	3	3	11	*				
BH510	3.60	74.03	S	-	2	3	3	2	3	4	12	*				
BH510	6.00	71.63	S	-	6	9	12	16	19	3/5	50/230					>
Driller			Matt Roberts				Remarks									
Hammer No.			AR2145													
Energy Ratio, Er (%)			64.00													
Calibration Date			19/05/2020													

S - Standard Penetration Test (SPT)
C - SPT with cone
L - Split Spoon with liner used

Fieldwork Results - SPT Results Summary

Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)

Project No PC207899

Client Graven Hill Village Development Company Limited

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'				
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50
BH509	2.20	71.64	S	-	1	1	2	2	3	3	10	*				
BH509	4.40	69.44	S	-	2	4	4	7	7	9	27			*		
BH509	6.90	66.94	S	-	2	2	5	8	8	9	30			*		
BH509	9.50	64.34	S	-	2	3	6	8	9	9	32			*		
Driller			David Cowling			Remarks										
Hammer No.			AR1962													
Energy Ratio, Er (%)			66.00													
Calibration Date			31/10/2019													

-/- Blows/penetration (mm) after seating

-*/- Total blows/penetration (mm)

SWP Penetration under own weight (mm)

S - Standard Penetration Test (SPT)

C - SPT with cone

L - Split Spoon with liner used

GEOTECHNICS

Fieldwork Results - SPT Results Summary

Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)

Project No PC207899

Client Graven Hill Village Development Company Limited

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'						
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50		
BH508	1.20	77.03	S	-	1	1	2	1	2	2	7	*						
BH508	2.50	75.73	S	-	1	2	2	3	4	4	13		*					
BH508	4.70	73.53	S	-	4	5	5	6	5	6	22			*				
BH508	7.50	70.73	S	-	6	9	16	15	16	3/5	50/230						>	
BH508	9.00	69.23	S	-	11	14/60	21	24	5/5		50/155						>	
BH508	10.00	68.23	S	-	16	9/30	24	26			50/150						>	
Driller			Matt Roberts				Remarks											
Hammer No.			AR2145															
Energy Ratio, Er (%)			64.00															
Calibration Date			19/05/2020															

-/- Blows/penetration (mm) after seating

-*/- Total blows/penetration (mm)

SWP Penetration under own weight (mm)

S - Standard Penetration Test (SPT)

C - SPT with cone

L - Split Spoon with liner used

GEOTECHNICS

Fieldwork Results - SPT Results Summary

Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)

Project No PC207899

Client Graven Hill Village Development Company Limited

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'					
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50	
BH507	1.20	72.62	S	-	1	3	3	3	4	5	15		*				
BH507	2.00	71.82	S	-	3	4	5	6	5	6	22			*			
BH507	4.50	69.32	S	-	3	5	5	5	8	11	29			*			
BH507	7.00	66.82	S	-	6	8	9	12	16	13/55	50/280						>
BH507	8.50	65.32	S	-	6	7	10	16	17	7/30	50/255						>
BH507	10.00	63.82	S	-	6	9	13	19	18/15		50/165						>
Driller			Matt Roberts				Remarks										
Hammer No.			AR2145														
Energy Ratio, Er (%)			64.00														
Calibration Date			19/05/2020														

-/- Blows/penetration (mm) after seating

-*/- Total blows/penetration (mm)

SWP Penetration under own weight (mm)

S - Standard Penetration Test (SPT)

C - SPT with cone

L - Split Spoon with liner used

GEOTECHNICS

Project No PC207899

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'					
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50	
BH506	1.20	70.20	S	-	1	2	3	3	4	4	14		*				
BH506	3.30	68.10	S	-	2	3	3	4	6	6	19			*			
BH506	6.00	65.40	S	-	4	6	8	8	12	13	41					*	
Driller			Matt Roberts				Remarks										
Hammer No.			AR2145														
Energy Ratio, Er (%)			64.00														
Calibration Date			19/05/2020														

S - Standard Penetration Test (SPT)
C - SPT with cone
L - Split Spoon with liner used

Fieldwork Results - SPT Results Summary

Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)

Project No PC207899

Client Graven Hill Village Development Company Limited

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'				
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50
BH504	2.10	68.92	S	-	2	3	3	4	4	4	15		*			
BH504	4.20	66.82	S	-	3	4	3	6	8	9	26			*		
BH504	7.00	64.02	S	-	3	5	6	8	9	10	33				*	
BH504	9.50	61.52	S	-	2	4	6	8	10	12	36				*	
Driller			David Cowling				Remarks									
Hammer No.			AR1962													
Energy Ratio, Er (%)			66.00													
Calibration Date			31/10/2019													

-/- Blows/penetration (mm) after seating

-*/- Total blows/penetration (mm)

SWP Penetration under own weight (mm)

S - Standard Penetration Test (SPT)

C - SPT with cone

L - Split Spoon with liner used

GEOTECHNICS

Fieldwork Results - SPT Results Summary

Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)

Project No PC207899

Client Graven Hill Village Development Company Limited

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'						
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50		
BH503	2.20	71.62	S	-	1	2	2	3	2	2	9	*						
BH503	4.20	69.62	S	-	1	4	5	6	7	9	27			*				
BH503	6.70	67.12	S	-	2	4	7	8	9	11	35				*			
BH503	9.50	64.32	S	-	4	5	7	9	11	15	42					*		
Driller			David Cowling				Remarks											
Hammer No.			AR1962															
Energy Ratio, Er (%)			66.00															
Calibration Date			31/10/2019															

-/- Blows/penetration (mm) after seating

-*/- Total blows/penetration (mm)

SWP Penetration under own weight (mm)

S - Standard Penetration Test (SPT)

C - SPT with cone

L - Split Spoon with liner used

GEOTECHNICS

Fieldwork Results - SPT Results Summary

Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)

Project No PC207899

Client Graven Hill Village Development Company Limited

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'					
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50	
BH502	2.20	71.47	S	-	1	1	1	2	2	2	7	*					
BH502	4.20	69.47	S	-	3	4	6	7	7	9	29				*		
BH502	6.70	66.97	S	-	3	5	7	8	9	13	37					*	
BH502	9.50	64.17	S	-	3	6	7	9	14	15	45					*	
Driller			David Cowling				Remarks										
Hammer No.			AR1962														
Energy Ratio, Er (%)			66.00														
Calibration Date			31/10/2019														

-/- Blows/penetration (mm) after seating

-*/- Total blows/penetration (mm)

SWP Penetration under own weight (mm)

S - Standard Penetration Test (SPT)

C - SPT with cone

L - Split Spoon with liner used

GEOTECHNICS

Fieldwork Results - SPT Results Summary

Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)

Project No PC207899

Client Graven Hill Village Development Company Limited

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'					
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50	
BH431	2.20	78.22	S	-	1	2	2	2	2	2	8	*					
BH431	4.30	76.12	S	-	2	3	4	3	4	6	17		*				
BH431	6.90	73.52	S	-	2	4	5	7	7	8	27			*			
BH431	9.50	70.92	S	-	6	10	10	10	13	17	50						*
Driller			David Cowling				Remarks										
Hammer No.			AR1962														
Energy Ratio, Er (%)			66.00														
Calibration Date			31/10/2019														

-/- Blows/penetration (mm) after seating

-*/- Total blows/penetration (mm)

SWP Penetration under own weight (mm)

S - Standard Penetration Test (SPT)

C - SPT with cone

L - Split Spoon with liner used

GEOTECHNICS

Fieldwork Results - SPT Results Summary

Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)

Project No PC207899

Client Graven Hill Village Development Company Limited

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'				
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50
BH430	1.20	73.48	S	-	1	2	2	2	3	3	10	*				
BH430	3.20	71.48	C	-	3	6	5	4	2	6	17	*				
Driller			David Cowling			Remarks										
Hammer No.			AR1962													
Energy Ratio, Er (%)			66.00													
Calibration Date			31/10/2019													

Project No PC207899

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'					
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50	
BH429	1.20	72.55	S	-	2	2	2	2	2	2	8	*					
BH429	3.40	70.35	S	-	2	2	2	2	3	3	10	*					
BH429	6.00	67.75	S	-	3	4	5	6	6	8	25			*			
Driller			Kris Roebuck				Remarks										
Hammer No.			AR2475														
Energy Ratio, Er (%)			67.00														
Calibration Date			16/10/2020														

S - Standard Penetration Test (SPT)
C - SPT with cone
L - Split Spoon with liner used

Fieldwork Results - SPT Results Summary

Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)

Project No PC207899

Client Graven Hill Village Development Company Limited

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'						
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50		
BH428	1.20	70.63	S	-	1	1	2	1	2	2	7	*						
BH428	3.50	68.33	S	-	2	3	3	3	3	3	12	*						
BH428	6.00	65.83	S	-	3	4	4	5	7	7	23			*				
Driller			Matt Roberts				Remarks											
Hammer No.			AR2145															
Energy Ratio, Er (%)			64.00															
Calibration Date			19/05/2020															

-/- Blows/penetration (mm) after seating

-*/- Total blows/penetration (mm)

SWP Penetration under own weight (mm)

S - Standard Penetration Test (SPT)

C - SPT with cone

L - Split Spoon with liner used

GEOTECHNICS

Project No PC207899

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'					
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50	
BH427	1.20	70.34	S	-	1	-	1	-	1	1	3	*					
BH427	3.60	67.94	S	-	3	4	4	4	5	5	18		*				
BH427	6.00	65.54	S	-	3	4	6	6	7	7	26			*			
Driller			Matt Roberts				Remarks										
Hammer No.			AR2145														
Energy Ratio, Er (%)			64.00														
Calibration Date			19/05/2020														

S - Standard Penetration Test (SPT)
C - SPT with cone
L - Split Spoon with liner used

Fieldwork Results - SPT Results Summary

Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)

Project No PC207899

Client Graven Hill Village Development Company Limited

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'						
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50		
BH426	1.20	70.03	S	-	1	1	2	1	1	2	6	*						
BH426	2.50	68.73	S	-	25/20		50/20				50/20						>	
BH426	3.50	67.73	S	-	3	4	4	5	7	7	23			*				
BH426	6.00	65.23	S	-	3	4	5	6	9	9	29			*				
Driller			Matt Roberts				Remarks											
Hammer No.			AR2145															
Energy Ratio, Er (%)			64.00															
Calibration Date			19/05/2020															

-/- Blows/penetration (mm) after seating

-*/- Total blows/penetration (mm)

SWP Penetration under own weight (mm)

S - Standard Penetration Test (SPT)

C - SPT with cone

L - Split Spoon with liner used

GEOTECHNICS

Fieldwork Results - SPT Results Summary

Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)

Project No PC207899

Client Graven Hill Village Development Company Limited

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'				
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50
BH425	1.20	69.48	S	-	3	4	4	5	5	5	19		*			
BH425	3.50	67.18	S	-	4	4	5	5	5	5	20		*			
BH425	6.00	64.68	S	-	3	4	4	5	6	7	22		*			
Driller			Matt Roberts			Remarks										
Hammer No.			AR2145													
Energy Ratio, Er (%)			64.00													
Calibration Date			19/05/2020													

-/- Blows/penetration (mm) after seating

-*/- Total blows/penetration (mm)

SWP Penetration under own weight (mm)

S - Standard Penetration Test (SPT)

C - SPT with cone

L - Split Spoon with liner used

GEOTECHNICS

Fieldwork Results - SPT Results Summary

Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)

Project No PC207899

Client Graven Hill Village Development Company Limited

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'						
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50		
BH424	1.20	68.95	S	-	1	2	2	2	2	2	8	*						
BH424	2.40	67.75	S	-	3	2	3	3	3	4	13		*					
BH424	4.50	65.65	S	-	3	4	4	6	7	8	25			*				
Driller			Matt Roberts				Remarks											
Hammer No.			AR2145															
Energy Ratio, Er (%)			64.00															
Calibration Date			19/05/2020															

-/- Blows/penetration (mm) after seating

-*/- Total blows/penetration (mm)

SWP Penetration under own weight (mm)

S - Standard Penetration Test (SPT)

C - SPT with cone

L - Split Spoon with liner used

GEOTECHNICS

Fieldwork Results - SPT Results Summary

Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)

Project No PC207899

Client Graven Hill Village Development Company Limited

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'					
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50	
BH423	1.20	69.19	S	-	1	1	1	2	1	2	6	*					
BH423	2.30	68.09	S	-	2	2	2	2	3	3	10		*				
BH423	3.50	66.89	S	-	2	3	3	3	3	4	13		*				
BH423	5.10	65.29	S	-	3	5	5	4	6	8	23			*			
BH423	6.00	64.39	S	-	3	4	4	4	5	7	20			*			
Driller			Matt Roberts			Remarks											
Hammer No.			AR2145														
Energy Ratio, Er (%)			64.00														
Calibration Date			19/05/2020														

-/- Blows/penetration (mm) after seating

-*/- Total blows/penetration (mm)

SWP Penetration under own weight (mm)

S - Standard Penetration Test (SPT)

C - SPT with cone

L - Split Spoon with liner used

GEOTECHNICS

Fieldwork Results - SPT Results Summary

Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)

Project No PC207899

Client Graven Hill Village Development Company Limited

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'				
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50
BH422	1.20	68.32	S	-	1	2	2	3	2	3	10	*				
BH422	3.50	66.02	S	-	2	3	3	3	4	3	13	*				
BH422	5.50	64.02	S	-	3	3	4	4	5	4	17	*				
BH422	8.50	61.02	S	-	3	4	4	5	8	10	27			*		
BH422	10.00	59.52	S	-	4	5	7	7	8	10	32				*	
Driller			Matt Roberts				Remarks									
Hammer No.			AR2145													
Energy Ratio, Er (%)			64.00													
Calibration Date			19/05/2020													

-/- Blows/penetration (mm) after seating

-*/- Total blows/penetration (mm)

SWP Penetration under own weight (mm)

S - Standard Penetration Test (SPT)

C - SPT with cone

L - Split Spoon with liner used

GEOTECHNICS

Fieldwork Results - SPT Results Summary

Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)

Project No PC207899

Client Graven Hill Village Development Company Limited

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'					
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50	
BH421	1.20	67.88	S	-	1	-	-	-	1	-	1	*					
BH421	2.50	66.58	S	-	-	-	1	-	-	-	1	*					
BH421	3.50	65.58	S	-	3	3	4	4	4	4	16		*				
BH421	6.00	63.08	S	-	3	3	3	5	5	9	22			*			
Driller			Matt Roberts			Remarks											
Hammer No.			AR2145														
Energy Ratio, Er (%)			64.00														
Calibration Date			19/05/2020														

-/- Blows/penetration (mm) after seating

-*/- Total blows/penetration (mm)

SWP Penetration under own weight (mm)

S - Standard Penetration Test (SPT)

C - SPT with cone

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GEOTECHNICS

Fieldwork Results - SPT Results Summary

Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)

Project No PC207899

Client Graven Hill Village Development Company Limited

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'						
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50		
BH420	1.20	68.87	S	-	1	-	1	-	1	2	4	*						
BH420	3.50	66.57	S	-	3	3	3	4	5	5	17		*					
BH420	6.00	64.07	S	-	3	4	5	5	6	8	24			*				
Driller			Matt Roberts				Remarks											
Hammer No.			AR2145															
Energy Ratio, Er (%)			64.00															
Calibration Date			19/05/2020															

-/- Blows/penetration (mm) after seating

-*/- Total blows/penetration (mm)

SWP Penetration under own weight (mm)

S - Standard Penetration Test (SPT)

C - SPT with cone

L - Split Spoon with liner used

GEOTECHNICS

Project No PC207899

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'					
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50	
BH419	1.20	69.26	S	-	1	-	-	1	2	2	5	*					
BH419	3.50	66.96	S	-	3	4	4	4	5	7	20		*				
BH419	6.00	64.46	S	-	4	4	6	7	8	9	30			*			
Driller			Matt Roberts				Remarks										
Hammer No.			AR2145														
Energy Ratio, Er (%)			64.00														
Calibration Date			19/05/2020														

S - Standard Penetration Test (SPT)
C - SPT with cone
L - Split Spoon with liner used

Project No PC207899

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'					
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50	
BH418	2.50	67.82	S	-	2	1	2	2	2	3	9	*					
BH418	4.50	65.82	S	-	3	3	4	4	4	5	17		*				
Driller			Matt Roberts				Remarks										
Hammer No.			AR2145														
Energy Ratio, Er (%)			64.00														
Calibration Date			19/05/2020														

S - Standard Penetration Test (SPT)
C - SPT with cone
L - Split Spoon with liner used

Project No PC207899

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'				
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50
BH417	2.40	68.33	S	-	1	2	2	3	3	3	11	*				
BH417	4.50	66.23	S	-	4	4	4	5	6	6	21		*			
Driller			Matt Roberts				Remarks									
Hammer No.			AR2145													
Energy Ratio, Er (%)			64.00													
Calibration Date			19/05/2020													

S - Standard Penetration Test (SPT)
C - SPT with cone
L - Split Spoon with liner used

Project No PC207899

Hole	Depth m bgl	Level m OD	Type	SWP (mm)	Seating Drive		Test Drive				SPT 'N' Value	Uncorrected SPT 'N'					
					0-75 (mm)	75-150 (mm)	0-75 (mm)	75-150 (mm)	150-225 (mm)	225-300 (mm)		10	20	30	40	50	
BH416	1.20	69.97	S	-	1	1	2	2	2	2	8	*					
BH416	3.40	67.77	S	-	3	4	4	4	5	5	18		*				
BH416	6.00	65.17	S	-	5	6	6	6	7	9	28			*			
Driller			Kris Roebuck				Remarks										
Hammer No.			AR2475														
Energy Ratio, Er (%)			67.00														
Calibration Date			16/10/2020														

S - Standard Penetration Test (SPT)
C - SPT with cone
L - Split Spoon with liner used

