

RYDON HOMES LTD

Rydon House
Forest Row
East Sussex
RH18 5DW
United Kingdom

Mr Elliott Newlyn
Senior Land Manager

14 December 2018

Subject: Land South of Water Lane, Angmering – Supplementary SI
Our ref: L-19495-2.4.2-18-S432-DCE Rev.A

Dear Mr Newlyn,

Further to the supplementary investigation undertaken at the above site, we are pleased to provide this letter report which gives an account of the ground conditions encountered and provides updated recommendations with respect to foundations. An updated foundation zoning plan is also presented.

Intrusive Investigation

Idom Merebrook Ltd attended site between 11 and 13 July 2018 to undertake investigation work with the aim of providing better coverage of the site, to obtain California Bearing Ratio (CBR) test data for road design and to investigate deep made ground reported during a previous investigation.

The recent investigation comprised the following exploratory holes:

- Twelve windowless sample holes (MWS201 - MWS212) advanced to a maximum depth of 4.45 metres below ground level (m bgl);
- Fifteen machine-dug trial pits (MTP1 – MTP6 and MTP201 – MTP209) excavated to a maximum depth of 3.0 m bgl; and
- Four machine-dug trial pits (CBR1 – CBR4) excavated to a maximum depth of 0.58 m bgl in order to obtain samples for laboratory CBR tests.

Windowless sample holes were advanced using a small tracked sampling rig. Standard Penetration Tests (SPTs) were performed at regular intervals in the windowless sample holes. The tests involved driving a steel split spoon or cone tipped series of rods into the ground over a distance of 450 mm using the repeated blows of a 63.5 kg weight allowed to free fall over a distance of 760 mm. The total number of blows required for the final 300 mm penetration (the 'N' value) is recorded on the attached logs.

A rubber-tired back hoe excavator was used to excavate the trial pits. In situ undrained shear strength tests were carried out within the cohesive soils using a hand shear vane.

The exploratory hole locations are shown on Drawing No. 19495-304-005 Rev.A, which is attached to this letter, along with exploratory hole logs.

Gas and groundwater monitoring of six borehole standpipes installed in October / November 2016 was also undertaken, the results of which have been reported under separate cover.

Ground Conditions

A summary of the ground conditions is presented in the table below, whilst a more detailed account is provided in the following sections.

STRATA	DEPTH TO TOP RANGE (m bgl)	THICKNESS RANGE (m)
Topsoil	0.0	0.15 – 0.38
Head Deposits	0.18 – 0.30	0.36 – 1.40
River Terrace Deposits	0.0 – 1.75	2.78 - > 3.49
Lambeth Group	0.75 – 3.00	> 3.70

Topsoil was revealed from ground level in the majority of locations to depths ranging from 0.15 to 0.38 m bgl.

Superficial deposits of Head were revealed locally beneath topsoil and ranged in thickness from 0.36 to 1.4 m. These deposits were typically composed of stiff friable brown and light brown clay with minor amounts of flint gravel.

SPTs undertaken within this stratum at depths of 1.0 m bgl recorded 'N' values of 11 and 13, indicative of firm medium strength ground conditions.

River Terrace Deposits were generally revealed below topsoil or Head Deposits at depths of between 0.0 and 1.75 m bgl. This stratum was found to typically comprise brown clayey flint gravel, with cream to light brown clayey flint gravel present at depth. Locally, variable thicknesses of brown and orange brown gravelly clay were encountered above or below the gravel deposits.

Hand vane tests performed within gravelly clay typically revealed undrained shear strength values of >130 kN/m², indicative of stiff / very stiff (high / very high strength) ground conditions.

SPTs undertaken within the gravel revealed 'N' values in the range 14 to > 50, indicating the presence of medium dense to very dense ground conditions. SPTs performed within clay recorded 'N' values generally ranging from 10 to 13, indicating firm medium strength conditions, whilst refusals were met in three locations at depths of between 2.0 and 4.0 m bgl.

Cohesive soils of the Lambeth Group were revealed below superficial deposits in a small number of locations across the northern part of the site. Depths to the top of this stratum ranged from 0.75 to 3.0 m bgl. This stratum was typically found to comprise brown mottled orange brown clay.

Hand vane tests performed within the Lambeth Group clay revealed undrained shear strength values ranging between 59 and 93 kN/m², indicative of firm and stiff (medium and high strength) ground conditions.

Subject: Land South of Water Lane, Angmering – Supplementary SI
Our ref: L-19495-2.4.2-18-S432-DCE Rev.A
Page: 3/4

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SPTs undertaken within this stratum revealed 'N' values ranging from 8 to 37, indicating the presence of firm to very stiff (medium to very high strength) conditions. An SPT refusal was recorded in MWS204 at a depth of 3.0 m bgl.

Groundwater was not encountered within the shallow soils.

Geotechnical Recommendations

Foundations

The recent investigation has provided additional information on the ground conditions across the site, which in turn, has enabled a more detailed assessment to be carried out with respect to foundations. Exploratory holes have generally confirmed the ground conditions encountered during previous investigations, whilst in certain areas some variation in the nature of shallow soils appears to exist over short distances.

An updated foundation zoning plan has been produced which effectively splits the site into two halves. In the northern half, where deposits of clayey gravel predominate at shallow depth, traditional strip footings founding at a minimum depth of 0.75 m bgl are considered acceptable. An allowable bearing pressure (ABP) of 125 kN/m² will apply to footings up to 1 m wide founded within medium dense / dense gravel. Locally, where sandy / gravelly clay is present at shallow depth, a minimum footing depth of 1.0 m bgl and an ABP of 100 kN/m² will apply to footings up to 1 m wide.

In the southern half of the site, deposits of firm and stiff clay / gravelly clay predominate at shallow depth. Therefore, traditional strip footings founding at a minimum depth of 1.0 m bgl will be feasible. An ABP of 100 kN/m² will apply to footings up to 1 m wide. Locally, where clayey gravel is present at shallow depth, the minimum footing depth and ABP indicated above will apply to footings up to 1 m wide.

In the north-eastern area of the site, trial pits were excavated in an attempt to delineate made ground encountered in a trial pit dug during a previous investigation. A total of six trial pits were dug in this area and were concentrated in the vicinity of proposed building footprints. No evidence of made ground was observed in any of these trial pits. Traditional shallow foundations are therefore considered to be appropriate. Footings may need to be locally deepened if soft / loose natural soil or made ground is encountered at formation level.

An updated foundation zoning plan (Drawing No. 19495-311-004 Rev.A) is attached to this letter.

Roads and Paved Areas

A total of four laboratory CBR tests were performed on soil samples obtained at locations along the line of proposed roads. Tests were performed on samples of soil generally described as yellowish brown sandy gravelly clay. The tests recorded average CBR values ranging from 21 to 24 %. These values appear to be higher than would be expected for this type of material, therefore, based on the plasticity of the cohesive soils at the site, it is recommended that a CBR value of 3 % is adopted for preliminary design purposes. Further testing would be required to determine a CBR value for the final design of roads and areas of hardstanding.

We trust that the above information is helpful, however, if you have any questions, please do not hesitate to contact the undersigned.



Darren Ettrich

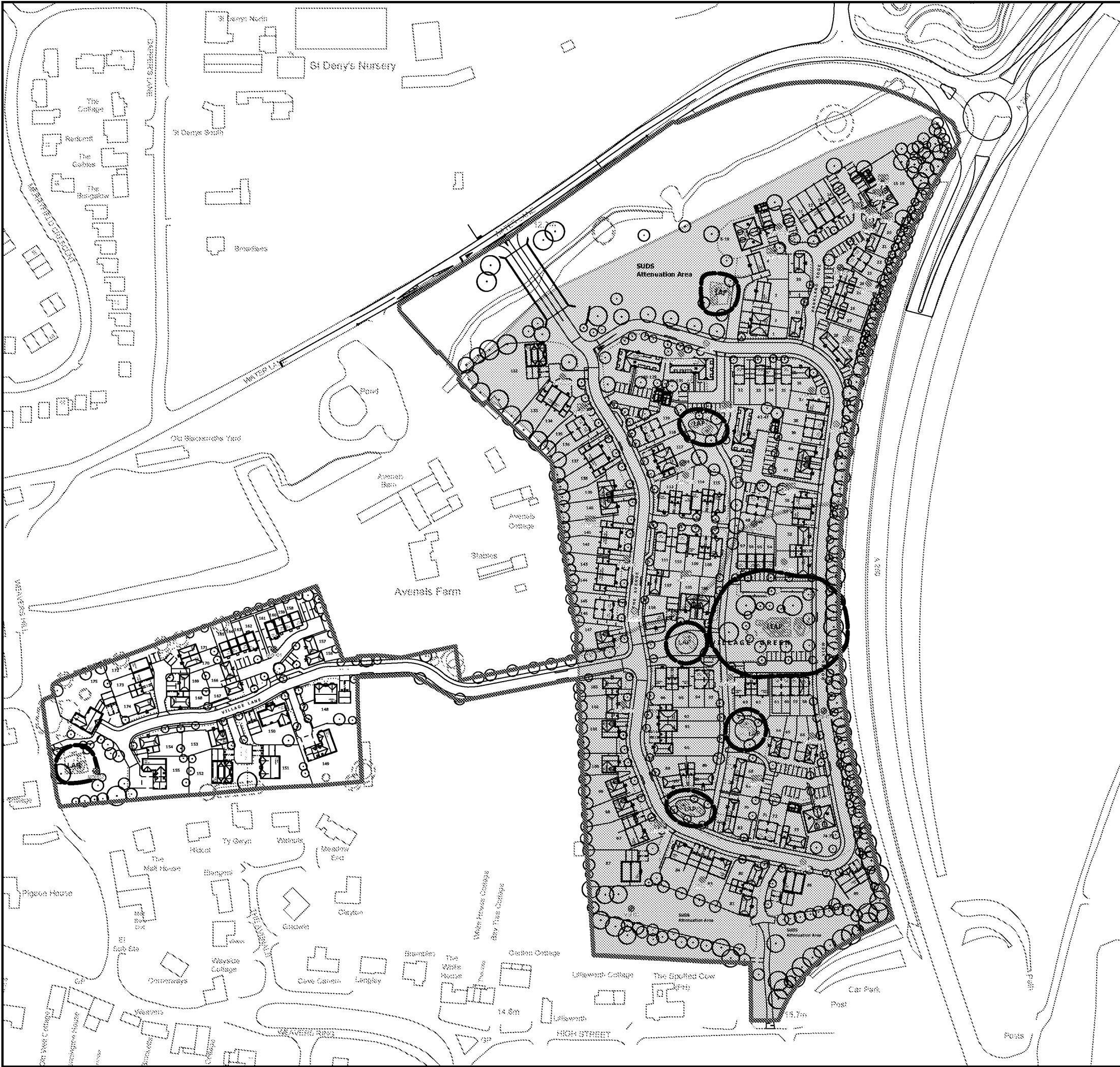
For Idom Merebrook Ltd

Subject: Land South of Water Lane, Angmering – Supplementary SI
Our ref: L-19495-2.4.2-18-S432-DCE Rev.A
Page: 4/4



Cc Paul Slingo – Gleeson Strategic Land
File

Enc Drawing Nos. 19495-304-005 Rev.A and 19495-311-004 Rev.A
Exploratory Hole Logs
Geotechnical Laboratory Test Certificates



MTPref

MWVref

CBRref

MBHref

Merebrook trial pit

Merebrook windowless sample hole

Merebrook Californian bearing ratio sample

Merebrook cable percussion borehole installed for groundwater level monitoring (October/November 2016)

Traditional strip footings at a minimum depth of 0.75m below ground level founded in clayey gravel. (Locally sandy/gravelly clay encountered - minimum footing depth of 1.0m applies)

Traditional strip footings at a minimum depth of 1.0m below ground level founded in firm/stiff clay/gravelly clay. (Locally clayey gravel encountered - minimum footing depth of 0.75m applies)

Amended SI Locations	14-12-2018		A
	SNC	DCE	DCE
First Issue	23/07/2018		-
	SR	DCE	DCE
Issue Details	Dwn	Chd	App'd

Client/Project

Rydon Homes/Gleeson Strategic Land
Land South of Water Lane,
Angmering

Dwg Title

Foundation Zoning Plan

Job No.	19495	Dwg No.	311-004	Revision	A
Scale	1:2000	Date	July 2018	Frame Dimensions mm	(A3) 400 x 280
Drawn	SR	Checked	DCE	Approved	DCE

London

Kent

Derbyshire

Cardiff

Manchester

Stirling

Birmingham

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ARUN DISTRICT COUNCIL A/201/20/DOC

 Cromford Mills, Mill Lane, Matlock, Derbyshire t +44 (0) 1773 829 988 e consulting@merebrook.co.uk merebrook.co.uk idom.com AN idom GROUP COMPANY						Windowless Sample Log		Borehole No. MWS201	
offices London Kent Derby Cardiff Manchester Moray						Project Name: Land South of Water Lane		Project No. 19495	
Location: Angmering						Co-ords:		Hole Type WLS	
Equipment: Competitor Rig.						Level:		Scale 1:25	
Dates: 12/07/2018						Logged By DCE			
Well	Wtr Strk	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		1.00	SPT(S)	N=8 (1,1/1,2,2,3)	0.30	0.75		Grass over friable light brown slightly gravelly clay. Gravel is angular to rounded fine to medium flint. Many fine roots. TOPSOIL.	1
								Stiff friable brown slightly gravelly CLAY. Gravel is angular to rounded fine to medium flint. Occasional fine roots.	
		2.00	SPT(S)	N=12 (1,2/3,3,3,3)	2.10		Firm medium strength brown, locally mottled orange brown slightly sandy CLAY. Sand is fine to medium.	2	
							Firm medium strength brown mottled orange brown and light grey CLAY.		
3.00	SPT(S)	N=9 (2,2/2,2,2,3)	4.45		From 3.5 m: becoming stiff high strength.	3			
4.00	SPT(S)	N=19 (2,4/4,5,4,6)	4.45		End of Borehole at 4.45m	4			
									5
D = small disturbed sample (tub) J = organic sample (amber glass jar) V = volatile sample (amber glass vial) B = bulk bag sample SPT(C) = Standard Penetration Test (Cone) SPT(S) = Standard Penetration Test (Split Spoon) HSV = hand shear vane (kPa) PP = pocket penetrometer (kg.cm2) PID = photoionisation detector (ppm)							Remarks		

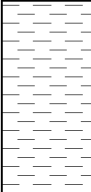
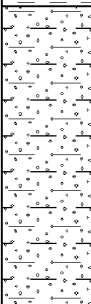
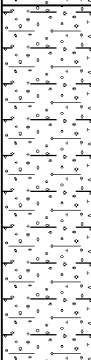
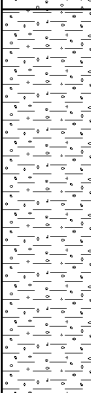
 Cromford Mills, Mill Lane, Matlock, Derbyshire t +44 (0) 1773 829 988 e consulting@merebrook.co.uk merebrook.co.uk idom.com AN idom GROUP COMPANY						Windowless Sample Log		Borehole No. MWS202	
offices London Kent Derby Cardiff Manchester Moray						Sheet 1 of 1			
Project Name: Land South of Water Lane				Project No. 19495		Co-ords:		Hole Type WLS	
Location: Angmering				Level:		Scale 1:25			
Equipment: Competitor Rig.				Dates: 12/07/2018		Logged By DCE			
Well	Wtr Strk	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.22			Grass over friable light brown clay. Rare angular to rounded fine to medium flint gravel. Many fine roots. TOPSOIL.	1
					0.45			Stiff friable light brown slightly gravelly CLAY. Gravel is angular to rounded fine to medium flint. Occasional fine roots.	
		1.00	SPT(S)	N=11 (2,3/3,3,3,2)	1.60			Firm medium strength brown to dark brown very gravelly CLAY. Gravel is angular to rounded fine to coarse flint.	2
					2.00			Medium dense cream to light brown clayey GRAVEL. Gravel is subangular to rounded fine flint. Locally some medium and coarse gravel.	
					2.40			Stiff dark brown very gravelly CLAY. Gravel is angular to rounded fine to coarse flint.	
					2.60			Medium dense cream to light brown clayey GRAVEL. Gravel is subangular to rounded fine flint. Locally some medium and coarse gravel.	
		3.00	SPT(S)	N=21 (3,3/5,5,5,6)	3.00			Stiff high strength light brown, locally mottled grey brown CLAY. Occasional orange mottling.	3
		4.00	SPT(S)	N=22 (2,3/5,5,6,6)	4.45			From 3.8 m: becoming grey brown.	4
							End of Borehole at 4.45m	5	
D = small disturbed sample (tub) J = organic sample (amber glass jar) V = volatile sample (amber glass vial) B = bulk bag sample SPT(C) = Standard Penetration Test (Cone) SPT(S) = Standard Penetration Test (Split Spoon) HSV = hand shear vane (kPa) PP = pocket penetrometer (kg.cm2) PID = photoionisation detector (ppm)							Remarks		

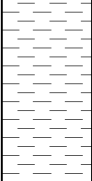
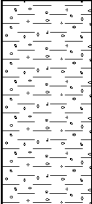
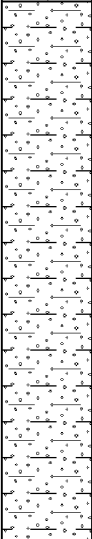
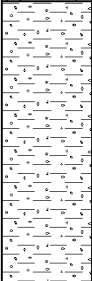
 Cromford Mills, Mill Lane, Matlock, Derbyshire t +44 (0) 1773 829 988 e consulting@merebrook.co.uk merebrook.co.uk idom.com AN idom GROUP COMPANY						Windowless Sample Log		Borehole No. MWS203							
offices London Kent Derby Cardiff Manchester Moray						Project Name: Land South of Water Lane		Project No. 19495		Co-ords:		Hole Type WLS			
Location: Angmering						Level:		Scale 1:25		Equipment: Competitor Rig.		Dates: 12/07/2018		Logged By DCE	
Well	Wtr Strk	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description							
		Depth (m)	Type	Results											
		1.00	SPT(C)	N=50 (10,15/50 for 235mm)	0.20			Grass over friable light brown clay. Occasional angular to rounded fine to medium flint gravel. Many fine roots. TOPSOIL.	1						
					0.80			Stiff friable brown very gravelly CLAY. Gravel is angular to rounded fine to medium flint. Occasional fine roots.							
					1.39			Dense brown clayey GRAVEL. Gravel is angular to rounded fine to coarse flint. Occasional flint cobbles.							
							End of Borehole at 1.39m		2						
									3						
									4						
									5						
D = small disturbed sample (tub) J = organic sample (amber glass jar) V = volatile sample (amber glass vial) B = bulk bag sample SPT(C) = Standard Penetration Test (Cone) SPT(S) = Standard Penetration Test (Split Spoon) HSV = hand shear vane (kPa) PP = pocket penetrometer (kg.cm2) PID = photoionisation detector (ppm)							Remarks								

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offices London Kent Derby Cardiff Manchester Moray						Sheet 1 of 1			
Project Name: Land South of Water Lane				Project No. 19495		Co-ords:		Hole Type WLS	
Location: Angmering						Level:		Scale 1:25	
Equipment: Competitor Rig.						Dates: 12/07/2018		Logged By DCE	
Well	Wtr Strk	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		1.00	SPT(C)	N=50 (8,12/50 for 235mm)	0.20			Grass over friable light brown clay. Occasional angular to rounded fine to medium flint gravel. Many fine roots. TOPSOIL.	1
					0.40			Stiff friable brown very gravelly CLAY. Gravel is angular to rounded fine to medium flint. Occasional fine roots.	
								Dense brown clayey GRAVEL. Gravel is angular to rounded fine to coarse flint. Occasional flint cobbles.	
					1.39			End of Borehole at 1.39m	2
									3
									4
									5
D = small disturbed sample (tub) J = organic sample (amber glass jar) V = volatile sample (amber glass vial) B = bulk bag sample SPT(C) = Standard Penetration Test (Cone) SPT(S) = Standard Penetration Test (Split Spoon) HSV = hand shear vane (kPa) PP = pocket penetrometer (kg.cm2) PID = photoionisation detector (ppm)							Remarks		

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offices London Kent Derby Cardiff Manchester Moray						Sheet 1 of 1			
Project Name: Land South of Water Lane				Project No. 19495		Co-ords:		Hole Type WLS	
Location: Angmering						Level:		Scale 1:25	
Equipment: Competitor Rig.						Dates: 12/07/2018		Logged By DCE	
Well	Wtr Strk	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.18			Grass over friable grey brown clay. Rare angular to rounded fine to medium flint gravel. Many fine roots. TOPSOIL.	1
					1.10			Light brown clayey GRAVEL. Gravel is angular to rounded fine to coarse flint.	
		1.00	SPT(S)	N=13 (4,4/4,3,3,3)				Firm medium strength, becoming stiff high strength brown slightly sandy slightly gravelly CLAY. Sand is fine to medium, gravel is angular to rounded fine to coarse flint.	
		2.00	SPT(S)	N=30 (5,6/7,7,8,8)	1.90			Stiff high strength brown mottled orange brown slightly sandy CLAY. Sand is fine to medium.	
		3.00	SPT(S)	N=50 (4,6/50 for 295mm)	3.45			End of Borehole at 3.45m	2
									3
									4
									5
D = small disturbed sample (tub) J = organic sample (amber glass jar) V = volatile sample (amber glass vial) B = bulk bag sample SPT(C) = Standard Penetration Test (Cone) SPT(S) = Standard Penetration Test (Split Spoon) HSV = hand shear vane (kPa) PP = pocket penetrometer (kg.cm2) PID = photoionisation detector (ppm)							Remarks		

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offices London Kent Derby Cardiff Manchester Moray						Project Name: Land South of Water Lane		Project No. 19495	
Location: Angmering						Co-ords:		Hole Type WLS	
Equipment: Competitor Rig.						Level:		Scale 1:25	
Dates: 12/07/2018						Logged By DCE			
Well	Wtr Strk	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		1.00	SPT(S)	N=13 (3,4/3,3,3,4)	0.30			Grass over friable light brown clay. Occasional angular to rounded fine to medium flint gravel. Many fine roots. TOPSOIL.	1
					0.60			Stiff friable brown very gravelly CLAY. Gravel is angular to rounded fine to medium flint. Occasional fine roots.	
								Brown clayey GRAVEL. Gravel is angular to rounded fine to coarse flint.	
					1.15			Firm medium strength brown very gravelly CLAY. Gravel is angular to rounded fine to coarse flint.	
					1.50			Stiff high strength cream to light brown very gravelly CLAY. Gravel is angular to rounded fine to coarse flint.	
		2.00	SPT(S)	N=50 (6,7/50 for 295mm)					2
				2.45			End of Borehole at 2.45m	3	
								4	
								5	
D = small disturbed sample (tub) J = organic sample (amber glass jar) V = volatile sample (amber glass vial) B = bulk bag sample SPT(C) = Standard Penetration Test (Cone) SPT(S) = Standard Penetration Test (Split Spoon) HSV = hand shear vane (kPa) PP = pocket penetrometer (kg.cm2) PID = photoionisation detector (ppm)							Remarks		

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offices London Kent Derby Cardiff Manchester Moray						Project Name: Land South of Water Lane		Project No. 19495	
Location: Angmering						Co-ords:		Hole Type WLS	
Equipment: Competitor Rig.						Level:		Scale 1:25	
Dates: 12/07/2018						Logged By DCE			
Well	Wtr Strk	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		1.00	SPT(C)	N=16 (3,4/4,4,4,4)	0.25			Grass over friable light brown clay. Rare angular to rounded fine to medium flint gravel. Many fine roots. TOPSOIL.	1
							Stiff friable brown CLAY. Occasional angular to rounded fine to medium flint gravel and fine roots.		
		2.00	SPT(C)	N=21 (5,5/5,5,5,6)	0.90			Medium dense brown clayey GRAVEL. Gravel is subangular to rounded fine to coarse flint.	
					1.90			Medium dense cream, locally light brown clayey GRAVEL. Gravel is subangular to rounded fine flint. Locally some medium and coarse gravel.	
		3.00	SPT(S)	N=10 (4,3/3,2,2,3)	3.10			Firm medium strength light brown slightly gravelly CLAY. Gravel is angular to rounded fine to medium flint.	
4.00	SPT(S)	N=50 (12,13/50 for 235mm)	4.39			End of Borehole at 4.39m	5		
D = small disturbed sample (tub) J = organic sample (amber glass jar) V = volatile sample (amber glass vial) B = bulk bag sample SPT(C) = Standard Penetration Test (Cone) SPT(S) = Standard Penetration Test (Split Spoon) HSV = hand shear vane (kPa) PP = pocket penetrometer (kg.cm2) PID = photoionisation detector (ppm)							Remarks		

 Cromford Mills, Mill Lane, Matlock, Derbyshire t +44 (0) 1773 829 988 e consulting@merebrook.co.uk merebrook.co.uk idom.com AN idom GROUP COMPANY						Windowless Sample Log		Borehole No. MWS207					
offices London Kent Derby Cardiff Manchester Moray						Project Name: Land South of Water Lane		Project No. 19495		Co-ords:		Hole Type WLS	
Location: Angmering						Level:		Scale 1:25					
Equipment: Competitor Rig.						Dates: 12/07/2018		Logged By DCE					
Well	Wtr Strk	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description					
		Depth (m)	Type	Results									
		1.00	SPT(S)	N=13 (3,3/3,3,3,4)	0.28			Grass over friable light brown clay. Rare angular to rounded fine to medium flint gravel. Many fine roots. TOPSOIL.	1				
							Stiff friable brown CLAY. Occasional fine roots.						
		2.00	SPT(C)	N=34 (5,7/8,8,9,9)	1.60			Firm medium strength brown very gravelly CLAY. Gravel is angular to rounded fine to coarse flint.	2				
							Dense cream clayey GRAVEL. Gravel is subangular to rounded fine to medium flint. Occasional flint cobbles.						
		3.00	SPT(C)	N=36 (5,7/9,9,9,9)	3.40			Stiff high strength light brown very gravelly CLAY. Gravel is angular to rounded fine to medium flint.	4				
4.00	SPT(S)	50 (25 for 135mm/50 for 210mm)	4.35		End of Borehole at 4.35m								
D = small disturbed sample (tub) J = organic sample (amber glass jar) V = volatile sample (amber glass vial) B = bulk bag sample SPT(C) = Standard Penetration Test (Cone) SPT(S) = Standard Penetration Test (Split Spoon) HSV = hand shear vane (kPa) PP = pocket penetrometer (kg.cm2) PID = photoionisation detector (ppm)							Remarks						

 Cromford Mills, Mill Lane, Matlock, Derbyshire t +44 (0) 1773 829 988 e consulting@merebrook.co.uk merebrook.co.uk idom.com AN idom GROUP COMPANY						Windowless Sample Log		Borehole No. MWS208					
offices London Kent Derby Cardiff Manchester Moray						Project Name: Land South of Water Lane		Project No. 19495		Co-ords:		Hole Type WLS	
Location: Angmering						Level:		Scale 1:25					
Equipment: Competitor Rig.						Dates: 12/07/2018		Logged By DCE					
Well	Wtr Strk	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description					
		Depth (m)	Type	Results									
					0.20			Grass over friable light brown clay. Occasional angular to rounded fine to medium flint gravel. Many fine roots. TOPSOIL.	1				
								Stiff friable brown CLAY. Occasional angular to rounded fine to medium flint gravel and fine roots.					
		1.00	SPT(S)	N=13 (2,3/4,3,3,3)				From 1.0 m: becoming firm medium strength.					
					1.35			Firm medium strength yellowish brown CLAY. Occasional angular to rounded fine to medium flint gravel.					
					1.75			Medium dense brown clayey GRAVEL. Gravel is subangular to rounded fine to coarse flint.					
		2.00	SPT(C)	N=14 (3,2/4,3,3,4)					2				
					2.90		Dense brown and cream clayey GRAVEL. Gravel is angular to rounded fine to coarse flint. Occasional flint cobbles.	3					
3.00	SPT(C)	N=36 (5,4/5,8,12,11)											
					3.50		50 (25 for 115mm/50 for 220mm)		4				
					3.84		End of Borehole at 3.84m	5					
D = small disturbed sample (tub) J = organic sample (amber glass jar) V = volatile sample (amber glass vial) B = bulk bag sample SPT(C) = Standard Penetration Test (Cone) SPT(S) = Standard Penetration Test (Split Spoon) HSV = hand shear vane (kPa) PP = pocket penetrometer (kg.cm2) PID = photoionisation detector (ppm)							Remarks						

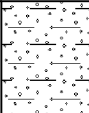
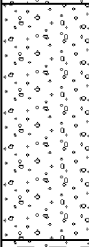
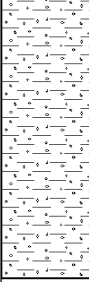
 Cromford Mills, Mill Lane, Matlock, Derbyshire t +44 (0) 1773 829 988 e consulting@merebrook.co.uk merebrook.co.uk idom.com AN idom GROUP COMPANY						Windowless Sample Log		Borehole No. MWS209	
offices London Kent Derby Cardiff Manchester Moray						Sheet 1 of 1			
Project Name: Land South of Water Lane				Project No. 19495		Co-ords:		Hole Type WLS	
Location: Angmering				Level:		Scale 1:25			
Equipment: Competitor Rig.				Dates: 13/07/2018		Logged By DCE			
Well	Wtr Strk	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.30			Grass over friable light brown clay. Occasional angular to rounded fine to medium flint gravel. Many fine roots. TOPSOIL.	1
								Stiff friable light brown, becoming brown CLAY. Occasional fine roots.	
		1.00	SPT(S)	N=11 (1,2/3,2,3,3)			From 1.0 m: becoming firm medium strength with occasional angular to rounded fine to medium flint gravel.		
							From 1.5 m: abundant flint gravel.		
		2.00	SPT(C)	N=22 (4,7/5,5,6,6)	1.70		Medium dense cream clayey GRAVEL. Gravel is subangular to rounded fine to medium flint. Occasional coarse flint gravel.	2	
		3.00	SPT(C)	N=50 (6,7/50 for 295mm)	3.45		End of Borehole at 3.45m	3	
								4	
								5	
D = small disturbed sample (tub) J = organic sample (amber glass jar) V = volatile sample (amber glass vial) B = bulk bag sample SPT(C) = Standard Penetration Test (Cone) SPT(S) = Standard Penetration Test (Split Spoon) HSV = hand shear vane (kPa) PP = pocket penetrometer (kg.cm2) PID = photoionisation detector (ppm)							Remarks		

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offices London Kent Derby Cardiff Manchester Moray						Sheet 1 of 1			
Project Name: Land South of Water Lane				Project No. 19495		Co-ords:		Hole Type WLS	
Location: Angmering				Level:		Scale 1:25			
Equipment: Competitor Rig.				Dates: 13/07/2018		Logged By DCE			
Well	Wtr Strk	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.28			Grass over friable light brown clay. Rare angular to rounded fine to medium flint gravel. Many fine roots. TOPSOIL.	1
								Stiff friable brown CLAY. Occasional fine roots.	
		1.00	SPT(S)	N=12 (1,2/2,3,3,4)	1.25			From 1.0 m: becoming firm medium strength.	
								Firm medium strength, becoming stiff high strength brown very gravelly CLAY. Gravel is angular to rounded fine to coarse flint.	
		2.00	SPT(C)	N=17 (4,4/5,3,4,5)	2.00			Medium dense, becoming dense cream clayey GRAVEL. Gravel is subangular to rounded fine to medium flint. Occasional coarse flint gravel and flint cobbles.	2
		3.00	SPT(C)	N=50 (4,6/50 for 295mm)					3
					3.45			End of Borehole at 3.45m	4
									5
D = small disturbed sample (tub) J = organic sample (amber glass jar) V = volatile sample (amber glass vial) B = bulk bag sample SPT(C) = Standard Penetration Test (Cone) SPT(S) = Standard Penetration Test (Split Spoon) HSV = hand shear vane (kPa) PP = pocket penetrometer (kg.cm2) PID = photoionisation detector (ppm)							Remarks		

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offices London Kent Derby Cardiff Manchester Moray						Sheet 1 of 1			
Project Name: Land South of Water Lane				Project No. 19495		Co-ords:		Hole Type WLS	
Location: Angmering				Level:		Scale 1:25			
Equipment: Competitor Rig.				Dates: 12/07/2018		Logged By DCE			
Well	Wtr Strk	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		1.00	SPT(C)	N=24 (3,4/5,8,6,5)	0.26			Grass over friable light brown clay. Occasional angular to rounded fine to medium flint gravel. Many fine roots. TOPSOIL.	1
								Stiff friable brown slightly gravelly CLAY. Gravel is angular to rounded fine to medium flint. Occasional fine roots.	
								Medium dense brown, locally light brown clayey GRAVEL. Gravel is subangular to rounded fine to coarse flint. Occasional flint cobbles.	
		2.00	SPT(C)	N=30 (5,6/7,7,9,7)	2.50		From 2.0 m: becoming dense.	2	
									Very stiff very high strength light brown mottled brown CLAY. Local orange brown mottling. Occasional angular to rounded fine to medium flint gravel.
		3.00	SPT(S)	N=37 (5,8/11,10,8,8)	3.70		Very stiff very high strength brown mottled light grey CLAY.	3	
		4.00	SPT(S)	N=34 (5,6/7,8,9,10)	4.45			4	
							End of Borehole at 4.45m	5	
D = small disturbed sample (tub) J = organic sample (amber glass jar) V = volatile sample (amber glass vial) B = bulk bag sample SPT(C) = Standard Penetration Test (Cone) SPT(S) = Standard Penetration Test (Split Spoon) HSV = hand shear vane (kPa) PP = pocket penetrometer (kg.cm2) PID = photoionisation detector (ppm)							Remarks		

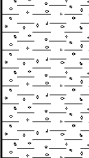
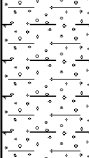
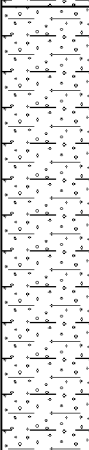
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ARUN DISTRICT COUNCIL A/201/20/DOC

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offices London Kent Derby Cardiff Manchester Stirling						Project Name: Land South of Water Lane		Project No. 19495		Co-ords: - Level:		Date 11/07/2018	
Location: Angmering						Dimensions (m): 2.00 0.50 		Scale 1:25		Equipment: JCB 3CX		Logged DCE	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description						
	Depth	Type	Results										
				0.38			Grass and weeds over light brown to grey brown clayey gravel. Gravel is angular to rounded fine to coarse flint. Some flint cobbles. Many fine roots.						
				1.16			Brown slightly clayey GRAVEL and COBBLES. Gravel and cobbles are angular to rounded fine to coarse flint.						
				2.10			Stiff brown mottled grey brown slightly gravelly CLAY. Gravel is angular to rounded fine to coarse flint. Occasional flint cobbles.						
							End of Pit at 2.100m						
D = small disturbed sample (tub) J = organic sample (amber glass jar) V = volatile sample (amber glass vial) B = bulk bag sample HSV = hand shear vane (kPa) PP = pocket penetrometer (kg.cm2) PID = photoionisation detector (ppm)				Stability Sidewalls of the pit were stable.				Remarks Hard digging.					

idom merebrook Cromford Mills, Mill Lane, Matlock, Derbyshire, DE4 3RQ t +44 (0) 1773 829 988 e consulting@merebrook.co.uk merebrook.co.uk idom.com AN idom GROUP COMPANY				TRIAL PIT LOG				TrialPit No MTP8 Sheet 1 of 1																	
offices London Kent Derby Cardiff Manchester Stirling				Project Name: Land South of Water Lane		Project No. 19495		Co-ords: - Level:		Date 11/07/2018 Scale 1:25 Logged DCE															
Location: Angmering				Dimensions (m): 2.00		Depth 2.00		0.50																	
Equipment: JCB 3CX																									
<table><tr><th rowspan="2">Water Strike</th><th colspan="3">Samples & In Situ Testing</th><th rowspan="2">Depth (m)</th><th rowspan="2">Level (m)</th><th rowspan="2">Legend</th><th rowspan="2">Stratum Description</th></tr><tr><th>Depth</th><th>Type</th><th>Results</th></tr></table>												Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	Depth	Type	Results			
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description																		
	Depth	Type	Results																						
<table><tr><td rowspan="4"></td><td rowspan="4"></td><td rowspan="4"></td><td rowspan="4"></td><td rowspan="4">0.40</td><td rowspan="4"></td><td></td><td>Grass and weeds over light brown clayey gravel. Gravel is angular to rounded fine to coarse flint. Locally some flint cobbles. Many fine roots.</td></tr><tr><td></td><td>Brown slightly clayey GRAVEL and COBBLES. Gravel and cobbles are angular to rounded fine to coarse flint.</td></tr><tr><td></td><td>Stiff brown to grey brown gravelly CLAY. Gravel is angular to rounded fine to coarse flint.</td></tr><tr><td colspan="2">End of Pit at 2.000m</td></tr></table>																0.40			Grass and weeds over light brown clayey gravel. Gravel is angular to rounded fine to coarse flint. Locally some flint cobbles. Many fine roots.		Brown slightly clayey GRAVEL and COBBLES. Gravel and cobbles are angular to rounded fine to coarse flint.		Stiff brown to grey brown gravelly CLAY. Gravel is angular to rounded fine to coarse flint.	End of Pit at 2.000m	
				0.40			Grass and weeds over light brown clayey gravel. Gravel is angular to rounded fine to coarse flint. Locally some flint cobbles. Many fine roots.																		
							Brown slightly clayey GRAVEL and COBBLES. Gravel and cobbles are angular to rounded fine to coarse flint.																		
							Stiff brown to grey brown gravelly CLAY. Gravel is angular to rounded fine to coarse flint.																		
						End of Pit at 2.000m																			
D = small disturbed sample (tub) J = organic sample (amber glass jar) V = volatile sample (amber glass vial) B = bulk bag sample HSV = hand shear vane (kPa) PP = pocket penetrometer (kg.cm2) PID = photoionisation detector (ppm)				Stability Sidewalls of the pit were stable.				Remarks Hard digging.																	

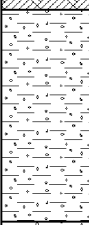
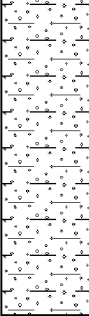
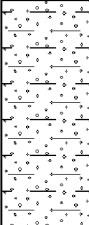
 Cromford Mills, Mill Lane, Matlock, Derbyshire, DE4 3RQ t +44 (0) 1773 829 988 e consulting@merebrook.co.uk merebrook.co.uk idom.com AN idom GROUP COMPANY						TRIAL PIT LOG		Trial Pit No MTP6	
offices London Kent Derby Cardiff Manchester Stirling						Sheet 1 of 1			
Project Name: Land South of Water Lane				Project No. 19495		Co-ords: - Level:		Date 11/07/2018	
Location: Angmering						Dimensions (m): 1.85 0.50		Scale 1:25	
Equipment: JCB 3CX						Depth 2.10		Logged DCE	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
				0.22			Grass and weeds over light brown clayey gravel. Gravel is angular to rounded fine to coarse flint. Some flint cobbles. Many fine roots.		
				0.68			Brown clayey GRAVEL and COBBLES. Gravel and cobbles are angular to rounded fine to coarse flint.		
				2.10			Stiff brown to grey brown gravelly CLAY. Gravel is angular to rounded fine to coarse flint. Locally becoming orange brown.		
							End of Pit at 2.100m		
D = small disturbed sample (tub) J = organic sample (amber glass jar) V = volatile sample (amber glass vial) B = bulk bag sample HSV = hand shear vane (kPa) PP = pocket penetrometer (kg.cm2) PID = photoionisation detector (ppm)				Stability Sidewalls of the pit were stable.			Remarks Hard digging.		

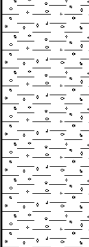
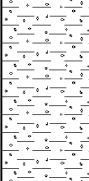
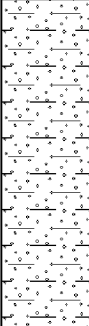
 Cromford Mills, Mill Lane, Matlock, Derbyshire, DE4 3RQ t +44 (0) 1773 829 988 e consulting@merebrook.co.uk merebrook.co.uk idom.com AN idom GROUP COMPANY						TRIAL PIT LOG		TrialPit No MTP202	
offices London Kent Derby Cardiff Manchester Stirling						Sheet 1 of 1			
Project Name: Land South of Water Lane				Project No. 19495		Co-ords: - Level:		Date 12/07/2018	
Location: Angmering						Dimensions (m): 2.10 0.50		Scale 1:25	
Equipment: JCB 3CX						Depth 2.85		Logged DCE	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
				0.18			Grass over friable light brown clay. Occasional angular to rounded fine to coarse flint gravel. Many fine roots. TOPSOIL.		
				0.76			Stiff friable brown to orange brown CLAY. Occasional angular to rounded fine to coarse flint gravel.		
				1.35			Brown clayey GRAVEL. Gravel is angular to rounded fine to coarse flint. Occasional flint cobbles.		
				2.85			Cream clayey GRAVEL. Gravel is subangular to rounded fine to coarse flint. Occasional flint cobbles.		
							End of Pit at 2.850m		
D = small disturbed sample (tub) J = organic sample (amber glass jar) V = volatile sample (amber glass vial) B = bulk bag sample HSV = hand shear vane (kPa) PP = pocket penetrometer (kg.cm2) PID = photoionisation detector (ppm)				Stability Sidewalls of the pit were stable.			Remarks Hard digging.		

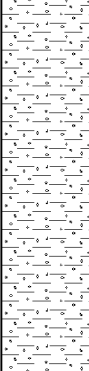
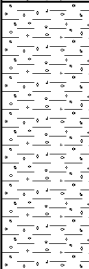
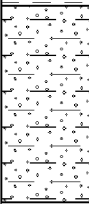
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offices London Kent Derby Cardiff Manchester Stirling					Sheet 1 of 1				
Project Name: Land South of Water Lane				Project No. 19495		Co-ords: - Level:		Date 12/07/2018	
Location: Angmering						Dimensions (m): 2.00		Scale 1:25	
Equipment: JCB 3CX						Depth 2.90		Logged DCE	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	1.30	HSV	>130,>130,>130	0.24			Grass over friable light brown clay. Occasional angular to rounded fine to coarse flint gravel. Many fine roots. TOPSOIL.		
				0.78			Stiff friable light brown CLAY. Occasional angular to rounded fine to coarse flint gravel.		
				1.66			Stiff high strength brown and orange brown very gravelly CLAY. Gravel is angular to rounded fine to coarse flint. Occasional flint cobbles.		
				2.90			Brown clayey GRAVEL. Gravel is angular to rounded fine to coarse flint. Locally very gravelly clay. Pockets of cream clayey fine flint gravel.		
						End of Pit at 2.900m			
D = small disturbed sample (tub) J = organic sample (amber glass jar) V = volatile sample (amber glass vial) B = bulk bag sample HSV = hand shear vane (kPa) PP = pocket penetrometer (kg.cm2) PID = photoionisation detector (ppm)				Stability Sidewalls of the pit were stable.			Remarks Hard digging.		

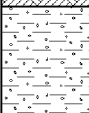
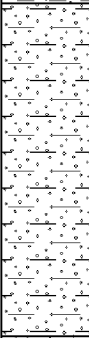
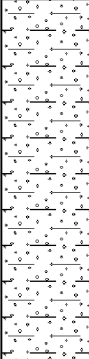
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offices London Kent Derby Cardiff Manchester Stirling					Sheet 1 of 1				
Project Name: Land South of Water Lane				Project No. 19495		Co-ords: - Level:		Date 11/07/2018	
Location: Angmering						Dimensions (m): 1.90		Scale 1:25	
Equipment: JCB 3CX						Depth 2.60		Logged DCE	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
				0.28			Grass over friable light brown slightly gravelly clay. Gravel is angular to rounded fine to coarse flint. Many fine roots. TOPSOIL.		
				0.44			Stiff friable light brown very gravelly CLAY. Gravel is angular to rounded fine to coarse flint.		
				0.78			Light brown slightly clayey GRAVEL. Gravel is angular to rounded fine to medium flint. Occasional flint cobbles.		
	1.20	HSV	>130,>130,>130				Stiff high strength brown and orange brown very gravelly CLAY. Gravel is angular to rounded fine to coarse flint. Occasional flint cobbles.		
	1.80	HSV	>130,>130,>130						
				2.60					
							End of Pit at 2.600m		
D = small disturbed sample (tub) J = organic sample (amber glass jar) V = volatile sample (amber glass vial) B = bulk bag sample HSV = hand shear vane (kPa) PP = pocket penetrometer (kg.cm2) PID = photoionisation detector (ppm)				Stability Sidewalls of the pit were stable.			Remarks Hard digging.		

				Cromford Mills, Mill Lane, Matlock, Derbyshire, DE4 3RQ t +44 (0) 1773 829 988 e consulting@merebrook.co.uk merebrook.co.uk idom.com AN idom GROUP COMPANY				TRIAL PIT LOG		TrialPit No MTP208	
offices London Kent Derby Cardiff Manchester Stirling										Sheet 1 of 1	
Project Name: Land South of Water Lane				Project No. 19495		Co-ords: - Level:				Date 11/07/2018	
Location: Angmering						Dimensions (m): 0.50				Scale 1:25	
Equipment: JCB 3CX						Depth 2.60				Logged DCE	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description				
	Depth	Type	Results								
				0.30			Grass over friable light brown slightly gravelly clay. Gravel is angular to rounded fine to coarse flint. Many fine roots. TOPSOIL. Stiff friable brown slightly gravelly CLAY. Gravel is angular to rounded fine to coarse flint. Brown, becoming dark brown slightly clayey GRAVEL. Gravel is angular to rounded fine to coarse flint.				
				0.62							
											
							From 1.6 m: local pockets of cream clayey fine gravel.				
				2.60			End of Pit at 2.600m				
D = small disturbed sample (tub) J = organic sample (amber glass jar) V = volatile sample (amber glass vial) B = bulk bag sample HSV = hand shear vane (kPa) PP = pocket penetrometer (kg.cm2) PID = photoionisation detector (ppm)				Stability Sidewalls of the pit were stable.				Remarks Hard digging.			

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offices London Kent Derby Cardiff Manchester Stirling					Sheet 1 of 1				
Project Name: Land South of Water Lane				Project No. 19495		Co-ords: - Level:		Date 12/07/2018	
Location: Angmering						Dimensions (m): 2.20		Scale 1:25	
Equipment: JCB 3CX						Depth 2.75		Logged DCE	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
				0.25			Grass over friable light brown slightly gravelly clay. Gravel is angular to rounded fine to coarse flint. Many fine roots. TOPSOIL.		
				0.95			Stiff friable light brown CLAY. Occasional angular to rounded fine to coarse flint gravel.		
				2.00			Brown and dark brown slightly clayey GRAVEL. Gravel is angular to rounded fine to coarse flint.		
				2.75			Cream slightly clayey GRAVEL. Gravel is subangular to rounded fine flint. Occasional medium to coarse flint gravel.		
							End of Pit at 2.750m		
D = small disturbed sample (tub) J = organic sample (amber glass jar) V = volatile sample (amber glass vial) B = bulk bag sample HSV = hand shear vane (kPa) PP = pocket penetrometer (kg.cm2) PID = photoionisation detector (ppm)				Stability Sidewalls of the pit were stable.			Remarks Hard digging from 0.95 m.		

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offices London Kent Derby Cardiff Manchester Stirling						Sheet 1 of 1				
Project Name: Land South of Water Lane				Project No. 19495		Co-ords: - Level:		Date 12/07/2018		
Location: Angmering						Dimensions (m): 2.40		Scale 1:25		
Equipment: JCB 3CX						Depth 2.80		Logged DCE		
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description			
	Depth	Type	Results							
	1.15	HSV	>130,>130,>130	0.18			Grass over friable light brown clay. Occasional angular to rounded fine to coarse flint gravel. Many fine roots. TOPSOIL.			
				1.05			Stiff friable light brown CLAY. Occasional angular to rounded fine to coarse flint gravel.			
				1.70			Stiff high strength brown and orange brown very gravelly CLAY. Gravel is angular to rounded fine to coarse flint. Occasional flint cobbles.			
				2.80			Cream, locally light brown clayey GRAVEL. Gravel is subangular to rounded fine flint. Occasional medium to coarse gravel. <i>From 2.0 m: medium to coarse gravel becomes more abundant. Occasional flint cobbles.</i>			
						End of Pit at 2.800m				
D = small disturbed sample (tub) J = organic sample (amber glass jar) V = volatile sample (amber glass vial) B = bulk bag sample HSV = hand shear vane (kPa) PP = pocket penetrometer (kg.cm2) PID = photoionisation detector (ppm)				Stability Sidewalls of the pit were stable.			Remarks			

 Cromford Mills, Mill Lane, Matlock, Derbyshire, DE4 3RQ t +44 (0) 1773 829 988 e consulting@merebrook.co.uk merebrook.co.uk idom.com AN idom GROUP COMPANY						TRIAL PIT LOG		TrialPit No MTP208	
offices London Kent Derby Cardiff Manchester Stirling								Sheet 1 of 1	
Project Name: Land South of Water Lane				Project No. 19495		Co-ords: - Level:		Date 12/07/2018	
Location: Angmering						Dimensions (m): 2.40 0.50		Scale 1:25	
Equipment: JCB 3CX						Depth 3.00		Logged DCE	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	1.60	HSV	>130,>130,>130	0.20			Grass over friable light brown clay. Occasional angular to rounded fine to coarse flint gravel. Many fine roots. TOPSOIL.		
				1.45			Stiff friable light brown CLAY. Occasional angular to rounded fine to coarse flint gravel.		
				2.35			Stiff high strength brown and orange brown very gravelly CLAY. Gravel is angular to rounded fine to coarse flint. Occasional flint cobbles.		
				3.00			Cream, locally light brown clayey GRAVEL. Gravel is subangular to rounded fine flint. Occasional medium to coarse gravel.		
						End of Pit at 3.000m			
D = small disturbed sample (tub) J = organic sample (amber glass jar) V = volatile sample (amber glass vial) B = bulk bag sample HSV = hand shear vane (kPa) PP = pocket penetrometer (kg.cm2) PID = photoionisation detector (ppm)				Stability Sidewalls of the pit were stable.			Remarks		

 Cromford Mills, Mill Lane, Matlock, Derbyshire, DE4 3RQ t +44 (0) 1773 829 988 e consulting@merebrook.co.uk merebrook.co.uk idom.com AN idom GROUP COMPANY					TRIAL PIT LOG			TrialPit No MTP209	
offices London Kent Derby Cardiff Manchester Stirling					Sheet 1 of 1				
Project Name: Land South of Water Lane				Project No. 19495		Co-ords: - Level:		Date 12/07/2018	
Location: Angmering						Dimensions (m): 2.10		Scale 1:25	
Equipment: JCB 3CX						Depth 2.90		Logged DCE	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
				0.24			Grass over friable light brown clay. Occasional angular to rounded fine to coarse flint gravel. Many fine roots. TOPSOIL.		
				0.60			Stiff friable light brown CLAY. Occasional angular to rounded fine to coarse flint gravel.		
				1.70			Brown clayey GRAVEL. Gravel is angular to rounded fine to coarse flint. Locally some flint cobbles. <i>From 1.4 m: locally becoming very gravelly clay.</i>		
				2.90			Cream, locally light brown clayey GRAVEL. Gravel is subangular to rounded fine flint. Occasional medium to coarse gravel. <i>From 1.9 m: medium to coarse gravel becomes more abundant. Occasional flint cobbles.</i>		
							End of Pit at 2.900m		
D = small disturbed sample (tub) J = organic sample (amber glass jar) V = volatile sample (amber glass vial) B = bulk bag sample HSV = hand shear vane (kPa) PP = pocket penetrometer (kg.cm2) PID = photoionisation detector (ppm)				Stability Sidewalls of the pit were stable.			Remarks Hard digging.		

Project Name:	Land South of Water Lane	Project No.	19495	Co-ords: -	Level:	Date	11/07/2018
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Location:	Angmering	Dimensions (m):	1.30	Scale	1:25
Equipment:	JCB 3CX	Depth	0.58	Logged	DCE

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.30 - 0.40	B		0.30			Grass over friable light brown gravelly clay. Gravel is angular to rounded fine to medium flint. Many fine roots. TOPSOIL.	
	0.30 - 0.40	B		0.58			Light brown clayey GRAVEL. Gravel is angular to rounded fine to coarse flint. Occasional flint cobbles.	
							End of Pit at 0.580m	
								1
								2
								3
								4
								5

D = small disturbed sample (tub) J = organic sample (amber glass jar) V = volatile sample (amber glass vial) B = bulk bag sample HSV = hand shear vane (kPa) PP = pocket penetrometer (kg.cm2) PID = photoionisation detector (ppm)	Stability Sidewalls of the pit were stable.	Remarks Hard digging.
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Project Name:	Land South of Water Lane	Project No.	19495	Co-ords: -	Level:	Date	11/07/2018
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Location:	Angmering	Dimensions (m):	1.40	Scale	1:25
Equipment:	JCB 3CX	Depth	0.52	Logged	DCE

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.30 - 0.40	B		0.28			Grass over friable light brown slightly gravelly clay. Gravel is angular to rounded fine to coarse flint. Many fine roots. TOPSOIL.	
	0.30 - 0.40	B		0.52			Stiff friable light brown CLAY. Occasional angular to rounded fine to coarse flint gravel and fine roots.	
							End of Pit at 0.520m	
								1
								2
								3
								4
								5

D = small disturbed sample (tub) J = organic sample (amber glass jar) V = volatile sample (amber glass vial) B = bulk bag sample HSV = hand shear vane (kPa) PP = pocket penetrometer (kg.cm2) PID = photoionisation detector (ppm)	Stability Sidewalls of the pit were stable.	Remarks
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Project Name:	Land South of Water Lane	Project No.	19495	Co-ords: -	Level:	Date	11/07/2018
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Location:	Angmering	Dimensions (m):	1.20	Scale	1:25
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Equipment:	JCB 3CX	Depth	0.50	Logged	DCE
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Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.30 - 0.40	B		0.22			Grass over friable light brown gravelly clay. Gravel is angular to rounded fine to coarse flint. Many fine roots. TOPSOIL.	
	0.30 - 0.40	B		0.50			Stiff friable light brown CLAY. Rare angular to rounded fine to coarse flint gravel and fine roots.	
							End of Pit at 0.500m	
								1
								2
								3
								4
								5

D = small disturbed sample (tub) J = organic sample (amber glass jar) V = volatile sample (amber glass vial) B = bulk bag sample HSV = hand shear vane (kPa) PP = pocket penetrometer (kg.cm2) PID = photoionisation detector (ppm)	Stability Sidewalls of the pit were stable.	Remarks
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Project Name:	Land South of Water Lane	Project No.	19495	Co-ords: -	Level:	Date	11/07/2018
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Location:	Angmering	Dimensions (m):	1.30	Scale	1:25
Equipment:	JCB 3CX	Depth	0.55	Logged	DCE

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.35 - 0.45	B		0.28			Grass over friable light brown gravelly clay. Gravel is angular to rounded fine to coarse flint. Many fine roots. TOPSOIL.	
	0.35 - 0.45	B		0.55			Stiff friable light brown slightly gravelly CLAY. Gravel is angular to rounded fine to medium flint.	
							End of Pit at 0.550m	
								1
								2
								3
								4
								5

D = small disturbed sample (tub) J = organic sample (amber glass jar) V = volatile sample (amber glass vial) B = bulk bag sample HSV = hand shear vane (kPa) PP = pocket penetrometer (kg.cm2) PID = photoionisation detector (ppm)	Stability Sidewalls of the pit were stable.	Remarks
--	--	-----------------------



TEST CERTIFICATE

Determination of California Bearing Ratio

Tested in Accordance with BS 1377-4: 1990: Clause 7

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS



Client: Merebrook
Client Address: Cromford Mills
Mill Lane
Cromford
Derbyshire
DE4 3RQ
Contact: Darren Ettrich
Site Name: Water Lane, Angmering
Site Address: Not Given

Client Reference: 19495
Job Number: 18-92712
Date Sampled: 11/07/2018
Date Received: 12/07/2018
Date Tested: 24/07/2018
Sampled By: DCE

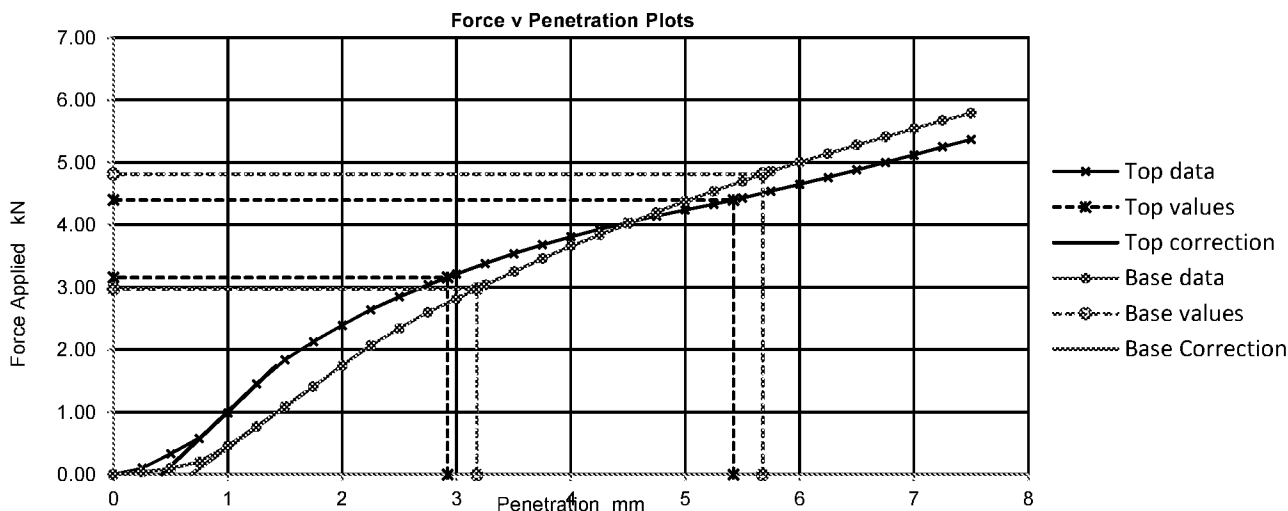
Test Results:

Laboratory Reference: 1001634
Hole No.: CBR1
Sample Reference: Not Given

Depth Top [m]: 0.30
Depth Base [m]: 0.40
Sample Type: B

Specimen Preparation:

Condition	Remoulded	Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer	Period of soaking	days
		Time to surface	days
Sample Description:	Yellowish brown gravelly sandy CLAY	Amount of swell recorded	mm
Material retained on 20mm sieve removed	20 %	Dry density after soaking	Mg/m3
Initial Specimen details	Bulk density	1.84	Mg/m3
	Dry density	1.67	Mg/m3
	Moisture content	10	%
	Surcharge applied	8	kg
		4.8	kPa



Results

TOP
BASE

Curve correction applied	CBR Values, %			
	2.5mm	5mm	Highest	Average
Yes	24.0	22.0	24.0	24.0
Yes	23.0	24.0	24.0	

Moisture Content %
9.5
9.9

Remarks:

Test/ Specimen specific remarks:

Approved:

Signed:

Dariusz Piotrowski
PL Laboratory Manager
Geotechnical Section

Darren Berrill
Geotechnical General Manager

Date Reported: 10/08/2018

for and on behalf of i2 Analytical Ltd

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The analysis was carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland."



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Client: Merebrook
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DE4 3RQ
Contact: Darren Ettrich
Site Name: Water Lane, Angmering
Site Address: Not Given

Client Reference: 19495
Job Number: 18-92712
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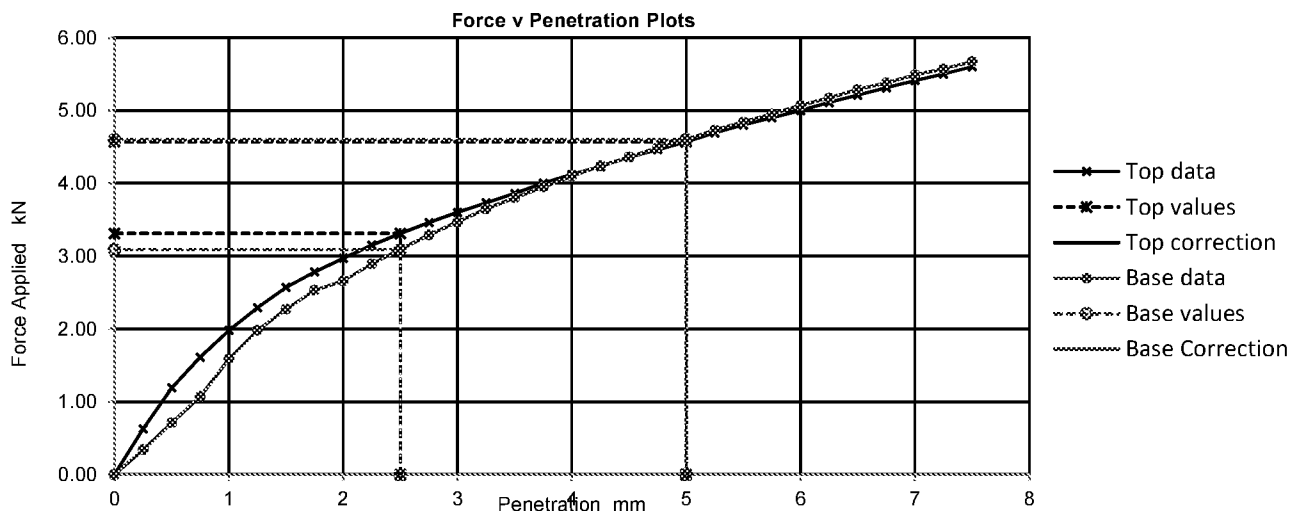
Test Results:

Laboratory Reference: 1001636
Hole No.: CBR2
Sample Reference: Not Given

Depth Top [m]: 0.30
Depth Base [m]: 0.40
Sample Type: B

Specimen Preparation:

Condition	Remoulded	Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer	Period of soaking	days
		Time to surface	days
Sample Description:	Yellowish brown sandy gravelly CLAY	Amount of swell recorded	mm
Material retained on 20mm sieve removed	8 %	Dry density after soaking	Mg/m3
Initial Specimen details	Bulk density	1.71	Mg/m3
	Dry density	1.54	Mg/m3
	Moisture content	11	%
	Surcharge applied	8	kg
		4.8	kPa



Results

TOP
BASE

Curve correction applied	CBR Values, %			
	2.5mm	5mm	Highest	Average
No	25.0	23.0	25.0	24.0
No	23.0	23.0	23.0	

Moisture Content %
14
9.8

Remarks:

Test/ Specimen specific remarks:

Approved:

Signed:

Dariusz Piotrowski
PL Laboratory Manager
Geotechnical Section

Darren Berrill
Geotechnical General Manager

Date Reported: 10/08/2018

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Sampled By: DCE

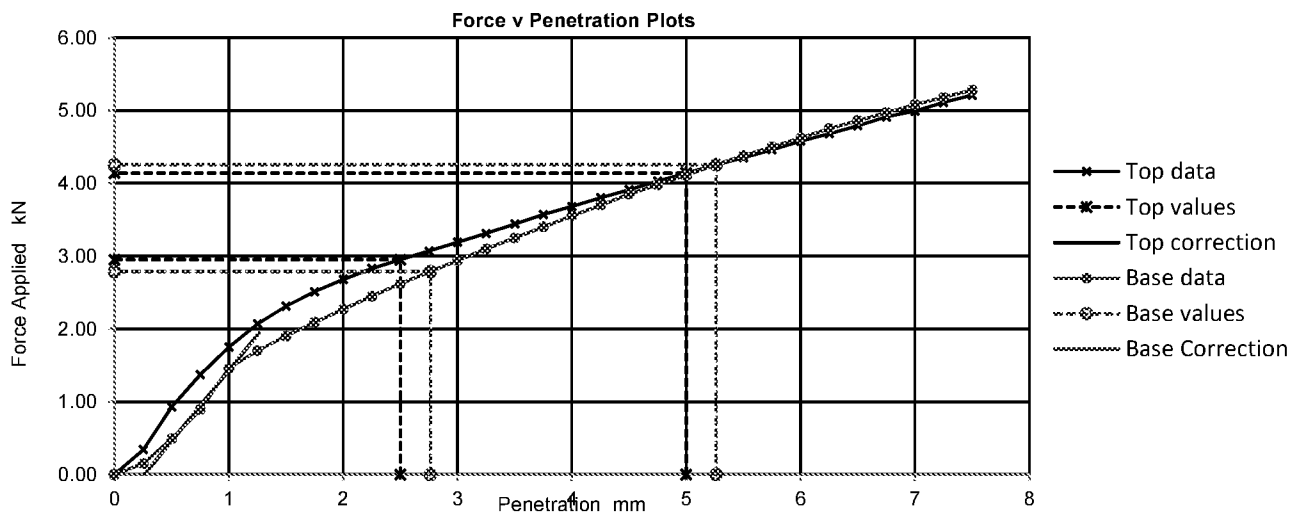
Test Results:

Laboratory Reference: 1001638
Hole No.: CBR3
Sample Reference: Not Given

Depth Top [m]: 0.30
Depth Base [m]: 0.40
Sample Type: B

Specimen Preparation:

Condition	Remoulded	Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer	Period of soaking	days
		Time to surface	days
Sample Description:	Yellowish brown slightly gravelly CLAY	Amount of swell recorded	mm
Material retained on 20mm sieve removed	1 %	Dry density after soaking	Mg/m3
Initial Specimen details	Bulk density	1.75	Mg/m3
	Dry density	1.59	Mg/m3
	Moisture content	10	%
		Surcharge applied	8 kg
			4.9 kPa



Results

TOP
BASE

Curve correction applied	CBR Values, %			
	2.5mm	5mm	Highest	Average
No	22.0	21.0	22.0	22.0
Yes	21.0	21.0	21.0	

Moisture Content %
11
11

Remarks:

Test/ Specimen specific remarks:

Approved:

Signed:

Dariusz Piotrowski
PL Laboratory Manager
Geotechnical Section

Darren Berrill
Geotechnical General
Manager

Date Reported: 10/08/2018

for and on behalf of i2 Analytical Ltd

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Determination of California Bearing Ratio

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Sampled By: DCE

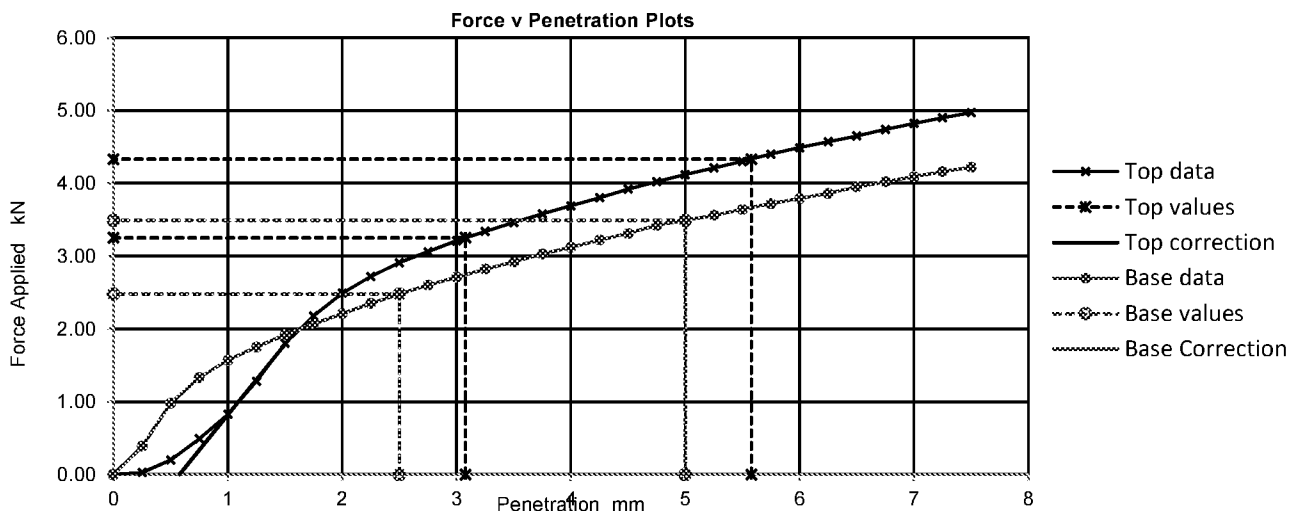
Test Results:

Laboratory Reference: 1001640
Hole No.: CBR4
Sample Reference: Not Given

Depth Top [m]: 0.35
Depth Base [m]: 0.45
Sample Type: B

Specimen Preparation:

Condition	Remoulded	Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer	Period of soaking	days
		Time to surface	days
Sample Description:	Yellowish brown sandy gravelly CLAY	Amount of swell recorded	mm
Material retained on 20mm sieve removed	3 %	Dry density after soaking	Mg/m3
Initial Specimen details	Bulk density	1.73	Mg/m3
	Dry density	1.54	Mg/m3
	Moisture content	13	%
	Surcharge applied	8	kg
		4.9	kPa



Results

TOP
BASE

Curve correction applied	CBR Values, %			
	2.5mm	5mm	Highest	Average
Yes	25.0	22.0	25.0	
No	19.0	17.0	19.0	

Moisture Content %
12
12

Remarks:

Test/ Specimen specific remarks:

Approved:

Signed:

Dariusz Piotrowski
PL Laboratory Manager
Geotechnical Section

Darren Berrill
Geotechnical General Manager

Date Reported: 10/08/2018

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