



The Sizewell C Project

6.3 Volume 2 Main Development Site Chapter 18 Geology and Land Quality Appendix 18A Phase 2 Geo-environmental Interpretative Report Part 10 of 11

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Infrastructure Planning (Applications: Prescribed
Forms and Procedure) Regulations 2009



NOT PROTECTIVELY MARKED

Appendix F – Ground Investigation Factual Reports

Structural Soils 2015

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**STRUCTURAL
SOILS LTD**

NNB GENERATION COMPANY

FACTUAL REPORT
on
GROUND INVESTIGATION
For the
2015 ONSHORE GROUND
INVESTIGATION CAMPAIGN ON
THE SZC CONSTRUCTION SITE
AREA

OCTOBER 2015
REPORT NO: 763468

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DOCUMENT ISSUE RECORD



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Contract: 2015 Onshore Ground Investigation Campaign on the SZC Construction Site Area

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1 INTRODUCTION

This investigation was carried out by Structural Soils Ltd on the instructions of NNB Generation Company (NNB Genco) on behalf of EDF Energy. It is proposed to construct Sizewell C, a Nuclear Power Station adjacent to the current Sizewell B Power Station. The proposed construction of the Power Station requires the construction of a onsite accommodation campus facility, a water management zone and a borrow pit area for construction materials.

The purpose of the work was to investigate ground conditions and provide information for the design of foundations and to provide information for preliminary contamination assessment purposes.

The work included an intrusive investigation, laboratory testing and the preparation of this report, which contains a description of the site and the works carried out, the exploratory hole logs, in-situ and laboratory testing results.

The ground investigation has been carried out using intrusive ground investigation techniques in general accordance with the recommendations of BS5930: 1999 *Code of Practice for Site Investigations* (including Amendment A2, 2010). Whilst every attempt is made to record full details of the strata encountered in the exploratory holes, techniques of hole formation and sampling will inevitably lead to disturbance, mixing or loss of material in some soils and rocks.

All information given in this report is based on the ground conditions encountered during the site work, and on the results of laboratory and field tests performed during the investigation. However, there may be conditions at the site that have not been taken into account, such as unpredictable soil strata, contaminant concentrations, and water conditions between or below exploratory holes. It should be noted that groundwater levels usually vary due to seasonal, atmospheric and/or other effects and may at times differ to those measured during the investigation.

This report was prepared by Structural Soils Limited for the sole and exclusive use of NNB GenCo in response to particular instructions. Any other parties using the information contained in this report do so at their own risk and any duty of care to those parties is excluded. No liability will be accepted after a period of 6 years from the date of the report.



2 SITE DESCRIPTION

2.1 Location and Topography

The first phase of the ground investigation is located directly north east of the village Leiston approximately 40km north east of Ipswich. (see Site Location Map in Appendix A). The British National Grid Reference for the central point of the site is 645714,265313. It is situated on the south east coast of the North Sea with predominantly arable land in various stages of crop and preparation, the area of investigation is of an irregular shape and covers an extensive area of approximately 0.18km² (approximately 18 hectares). The site lies approximately 1.20km north east of the B1122 road at the point of Leiston Abbey, and approximately 1.30km north of Lovers Lane that adjoins Sizewell Gap. Directly to the south of the site is a small woodland area named Ashwood otherwise is bounded by cropped farmland. The topographic elevations of the site range from 11.95m and 17.79m above Ordnance Datum.

Areas selected for the water management zones include scrubland directly north of the main site, marsh land approximately 1.50km east of the main site, and approximately 1.50m south of the main site opposite the District Survey Lab on land associated with the Habitat Creation Scheme. The topographic elevations of the water management zones vary between 2.29m and 12.22m above Ordnance Datum.

The site is historically linked to World War II (WWII) with coastal defences, historical airbases and military training ground bounded with the site works area with military artefacts occasionally unearthed. Prior to mobilisation a desk based Threat Assessment was undertaken to identify the likelihood of risk from unexploded munitions and also a utility search was undertaken to identify known underground and above ground services. Following the findings of the Threat Assessment each exploratory hole location was cleared through non-intrusive Unexploded Ordnance (UXO) surveys and ground penetrating radar prior to excavation. The key findings of the Threat Assessment are detailed in the following paragraphs:

Due to the historical land use around the Sizewell area, the Threat Assessment identified that the majority of the land associated with the Phase 1 works should be categorised as ‘High Risk’ due to this area forming part of the WWII-era Battle Training Ground with the area of the Campus and Security Entrance as ‘Medium Risk’ due to its proximity to WWII-era military bases/fortifications and the aforementioned training ground.

Based upon the expected geology of the area, a calculated maximum bomb penetration depth (based on a 500kg bomb) of 6m below WWII ground level. To mitigate the risks, it was



proposed that prior to works commencing on site all personnel undergo an Explosive Ordnance Safety and Awareness Briefing and each exploratory position undergoes a non-intrusive Magnetometer Survey by an EOD Engineer.

2.2 Geology

The Saxmundham British Geological Survey map (Sheet 191, Scale 1:50,000 published 1996) and the British Geological Survey digital map show the site to be underlain by strata from the Norwich Crag Formation of the Pliocene and Pleistocene epoch of the early Quaternary and late Neogene eras. The Lowestoft Formation of the Mid to Late Quaternary superficial deposits of glacial outwash sands and gravels and glacial till

The site is shown to be underlain by the following descending sequence of strata; however these strata may only be partially present or omitted entirely from the sequence:

TABLE 1: SUMMARY OF SITE GEOLOGY	
Geological Unit Name	Description
Lowestoft Formation	Chalky glacial till with outwash sands, gravels, silts and clays. Characterised by chalk and flint content. Variable thickness.
Norwich Crag Formation	Shallow water marine and estuarine deposits of sands, gravels, silts and clays. Sands are dark green from glauconite but weather bright orange with haematite iron pans. Gravels in the lower part of the group are almost entirely composed of flint. Gravels higher in the group include up to 10% quartzite. Up to 70m thick on shore.

Note: Information obtained from BGS digital records © NERC.



3 FIELDWORK

3.1 Scope of Work

The following works were completed between 10/06/2015 and 14/07/2015 at locations shown on the Exploratory Hole Location Plan in Appendix A:

TABLE 2: SCOPE OF INTRUSIVE WORKS AND IN-SITU TESTING		
Number	Exploratory Hole or In-Situ Test Type	Hole / Test Numbers
5	Sonic Boreholes	SD 3, 5, 6, 7 and 8.
7	Cable Percussion Boreholes.	CPB BP 7, 9, 10, 11, 12, 13, 14.
10	Machine Dug Trial Pits.	TP BP 1, 2, 3, 5, 6, 7 and 8. WMZ 18, 19 and 20.
3	Soak Away Tests.	TP WMZ 18, 19 and 20.
3	Permeability Tests.	CPB BP 11, 13 and 14.

The exploratory locations typically encountered topsoil of gravelly (sandy) clays or sand. The topsoil is occasionally underlain by the Lowestoft Formation of stiff gravelly and chalky clay. The Lowestoft Formation un-conformably overlies the upper sequence of the Norwich Crag formation of dense orange, buff or brown sands with thin gravel beds of flint and quartzite, descending into the lower sequence characterised by thin bands of clay, mudstone and gravels of fragmented shell.

The scope of investigation and choice of investigation equipment was decided by NNB Gen Co. Sampling and in-situ testing details were specified by NNB Gen Co.

The exploratory holes were logged by an engineer in accordance with the recommendations of BS5930: 1999 (Amendment A2, 2010, which incorporates the requirements of BS EN ISO 14688-1, 14688-2 and 14689-1). Detailed descriptions, together with relevant comments, are given in the logs included in Appendix B.

Prior to the commencement of any exploratory hole or intrusive test all positions were checked for buried services by a specialist utility surveyor using a cable avoidance tool (CAT), and ground penetrating radar (GPR).

All hole locations and the immediate vicinity were scanned by a specialist UXO (Unexploded Ordnance) officer using a magnetometer to check for buried ferrous objects that could possibly be UXO.



A survey of the exploratory hole locations was undertaken using specialist Global Positioning System (GPS) equipment. The coordinates of each exploratory hole were measured relative to British National Grid, and the level relative to Ordnance Datum. These are shown on the exploratory hole logs contained in Appendix B which have been printed with a reduced level column.

Inspection pits were hand dug at exploratory locations where noted on the relevant exploratory hole logs or in-situ test results.

3.2 Sonic Boreholes

The boreholes were drilled using a Boart Longyear DB320 Sonic tracked drilling rig. The boreholes were drilled using resonant high frequency vibrations applied to a rotating rod to penetrate the core barrel and casing into the ground. Frequencies used are between 50 and 150 hertz which are isolated from the drill rig using an internal spring and damper system. 140mm steel casing was used with rigid P.V.C. liner inserted to maximise core recovery.

3.3 Cable Percussion Boreholes

The boreholes were drilled using a Dando 2000 cable tool percussion drilling rig and were 250mm in diameter. The depths of the boreholes were 20m each. Small and bulk disturbed soil samples were taken from the boreholes at regular intervals.

100mm diameter undisturbed samples were recovered from suitable strata in accordance with BS EN ISO 22475-1 using a thick walled U100 sampler.

Standard Penetration Tests (SPT) were carried out at regular intervals (see In-Situ Testing, below).

3.4 Mechanically Excavated Trial Pits

The machine dug trial pits were excavated using a JCB 3CX wheeled mechanical excavator and were approximately 3.00m-4.00m x 0.60m in plan and were up to 3.50m deep.

Small and bulk disturbed soil samples were taken from the trial pits at regular intervals.

Soak away tests were performed in Trial pits WMZ18, 19, 20.



3.5 Backfill, Installation and Monitoring Wells

On completion 50mm diameter groundwater monitoring wells were installed in selected exploratory holes the design having been decided by NNB Gen Co. The installation details are shown on the exploratory hole logs in Appendix B.

The well details are also summarised below:

Location	Well Diameter (mm)	Well Depth (m bgl)	Well Response Zone (m bgl)	Type of Protective Cover
CPB BP 11	50mm	20m	8.00m – 20.00m	Raised
CPB BP 13	50mm	20m	8.00m – 20.00m	Raised
CPB BP 14	50mm	20m	8.00m – 20.00m	Raised
SD BP 3	50mm	45m	35.00m – 45.00m	Raised
SD BP 5	50mm	25m	8.00m - 25.00m	Raised
SD BP 6	50mm	25m	8.00m – 25.00m	Raised
SD BP 7	50mm	25m	8.00m – 25.00m	Raised
SD BP 8	50mm	25m	8.00m – 25.00m	Raised

On completion the remaining boreholes were backfilled with bentonite pellets. The trial pits were backfilled with arisings, compacted in layers by the excavator bucket.

The Client or site owner should ensure that the monitoring wells and their protective covers are not damaged or covered until such time as information is no longer required from them. Extra costs would be incurred if it were necessary to reinstate damaged wells.

3.6 Insitu Testing

Soakaway tests in trial pits

The Soakaway tests were undertaken in trial pits WMZ 18, 19 and 20 in general accordance with recommended practice given in BRE Digest 365. Three fillings of the pits were not undertaken due to slow infiltration rates in Trial Pit WMZ 20 and the instability of the pits in WMZ 18 and 19. The results are contained in Appendix C.



Permeability tests

Variable head permeability tests were carried out in the standpipes installed in boreholes CPB BP11, CPB BP13 and CP BP14. The permeability tests were carried out in general accordance with BS5930 (1999). The results of the tests are presented in table 4 and in graphic format within appendix C.

Rising head permeability tests were carried out in boreholes CPB BP11, CPB BP13 and CPB BP14; the water level in the borehole was reduced using portable pumping equipment, pumping for 20mins at a rate of 27 litres per min. The recovering water level was then recorded with time until a stable water level was reached.

The water levels in the standpipes were monitored during the tests using a “diver”, a digital pressure transducer with data logger, installed in the standpipe below the water level. The barometric pressure was also recorded.

TABLE 4: SUMMARY OF PERMEABILITY TESTS						
Location	Screen Depth (m)	Initial Water Level (m)	Pumping Rate (ltr/min)	Pumping Duration (mins)	Final Water Level (m)	Recovery Time (mins)
CPB BP 11	8.00 - 20.00	15.66	27	20	15.66	3.00
CPB BP 13	8.00 - 20.00	12.705	27	20	12.705	3.00
CPB BP 14	8.00 - 20.00	10.80	27	20	10.80	2.50



4 LABORATORY TESTING

Samples for potential geotechnical testing were returned to one of the Company's UKAS accredited laboratories, a UKAS accredited testing laboratory. Laboratory tests were scheduled by Structural Soils under the instruction of NNB Gen Co.

4.1 Geotechnical Laboratory Testing

Geotechnical laboratory testing was generally carried out in accordance with BS1377: 1990, *Methods of Test for Soils for Civil Engineering Purposes*, Parts 1 to 8. The number of tests completed and the test methods used are summarised below. The results are reported in tabular and/or graphical form and included as Appendix D of this report.

TABLE 5: SUMMARY OF GEOTECHNICAL LABORATORY TESTING			
Number of tests	Test	Test Method	Notes
Classification Tests			
2	Moisture content.	BS1377: Part 2.	
6	Liquid and plastic (Atterberg) limits.	BS1377: Part 2.	
160	Particle size distribution by sedimentation.	BS1377: Part 2.	
Chemical Tests: Soil			
7	Water soluble sulphate content and pH value.	BRE SD1*.	

Note:

* Test(s) carried out to method approved in BRE Special Digest 1.

4.2 Contamination

The contamination testing carried out is summarised in the following table. The results are included as Appendix E of this report, and include details of the test method.

TABLE 6: SUMMARY OF CONTAMINATION LABORATORY TESTING*		
Numbers of tests	Description	Notes
SOIL		
4	Fraction Organic Content	
25	Calcium carbonate	
3	Chloride	
LEACHATE (simulated leachates derived from soil samples)		
8	AMEC Leachate suite	Leachate Prep (BS EN 12457-2) 10:1, Dissolved Metals (ICP-MS/OES), Water Soluble SO ₄ , pH, Chloride, PAH- 16MS (USEPA 16 speciated)

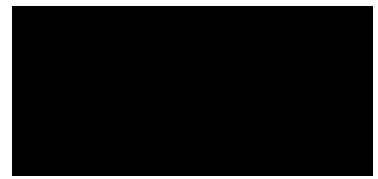
Note: Tests carried out in accordance with MCERTS/UKAS standards where noted on the results sheets.



STRUCTURAL SOILS LIMITED



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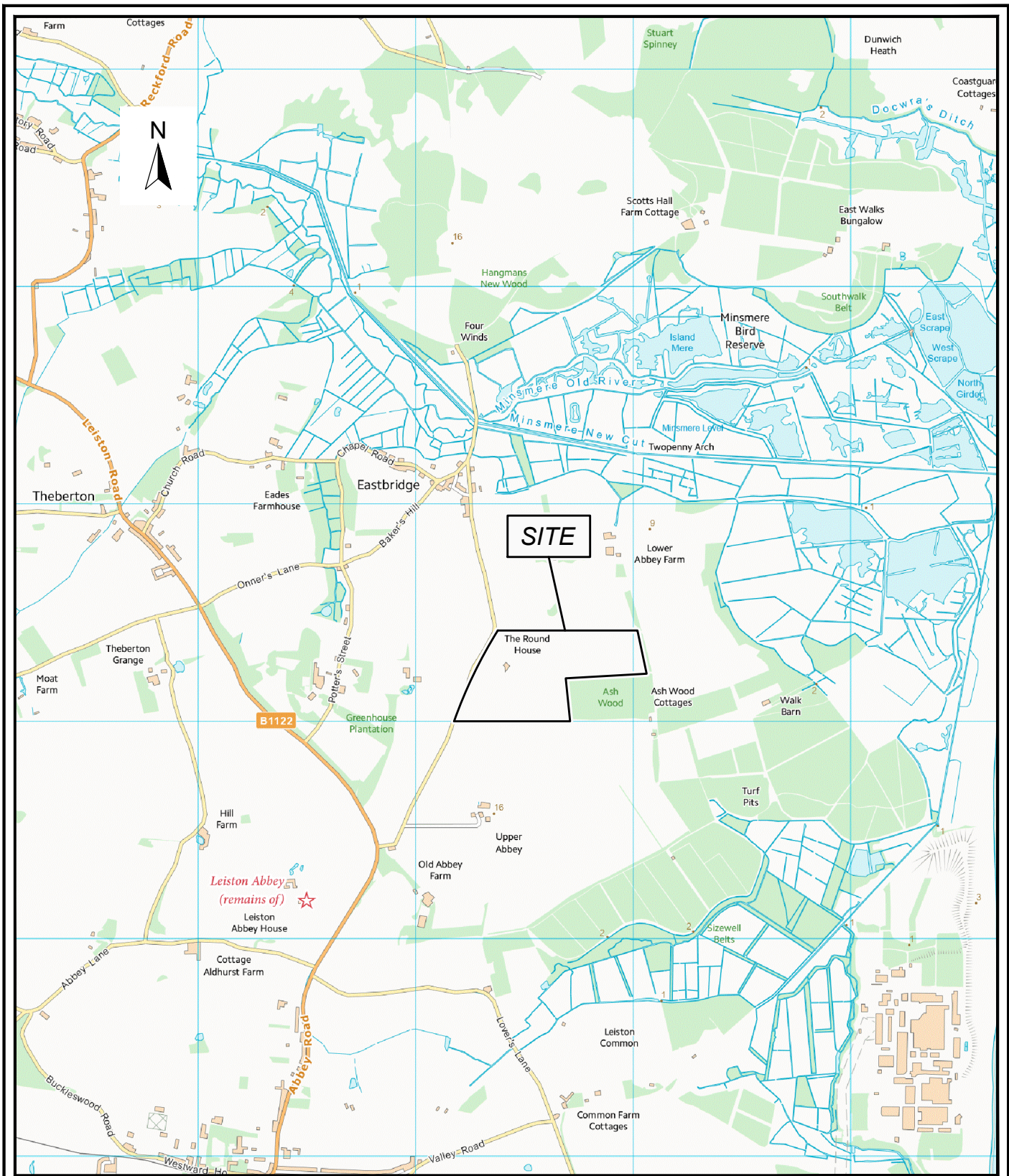


5 REFERENCES

- 5.1 BS 5930:1999 *Code of Practice for Site Investigation*, including amendment A2 (2010)
- 5.2 British Geological Survey sheet 191 scale 1:50,000, published 1996
- 5.3 British Geological Survey online digital geological map, www.bgs.ac.uk/data
- 5.4 British Geological Survey Lexicon of Named Rock Units, www.bgs.ac.uk/lexicon
- 5.5 BS EN ISO 14688-1:2002 *Geotechnical investigation and testing – Identification and classification of soil: Part 1: Identification and description*, including Amendment A1 (2013)
- 5.6 BS EN ISO 14688-2:2004 *Geotechnical investigation and testing – Identification and classification of soil: Part 2: Principles for a classification* , including Amendment A1 (2013)
- 5.7 BS EN ISO 14689-1:2003 *Geotechnical investigation and testing – Identification and classification of rock: Part 1: Identification and description*
- 5.8 BS EN ISO 22475-1:2006 *Geotechnical Investigation and Testing - Sampling and Groundwater Measurements - Technical Principles*
- 5.9 BS EN ISO 22476-3:2005 (updated February 2007) *Geotechnical Investigation and Testing – Field Testing Part 3: Standard Penetration Test*, including Amendment A1 (2011)

APPENDIX A

- (i) Site Location Plan
- (ii) Exploratory Hole Location Plan
- (iii) Proposed Development Layout Plan



Contains Ordnance Survey data © Crown copyright and database right 2013



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CLIENT

NNB Generation Company Limited

PROJECT

Sizewell C Onshore GI

TITLE

SITE LOCATION MAP

REV.	DATE	DESCRIPTION	BY	CHD.	APR.
00	28.08.2015	-	JH	SH	-
DIMENSION	SCALE	DRAWING STATUS			
m	1:25,000	-			

JOB NO

763468

GRID REF

TM 455 651

SCALE BAR

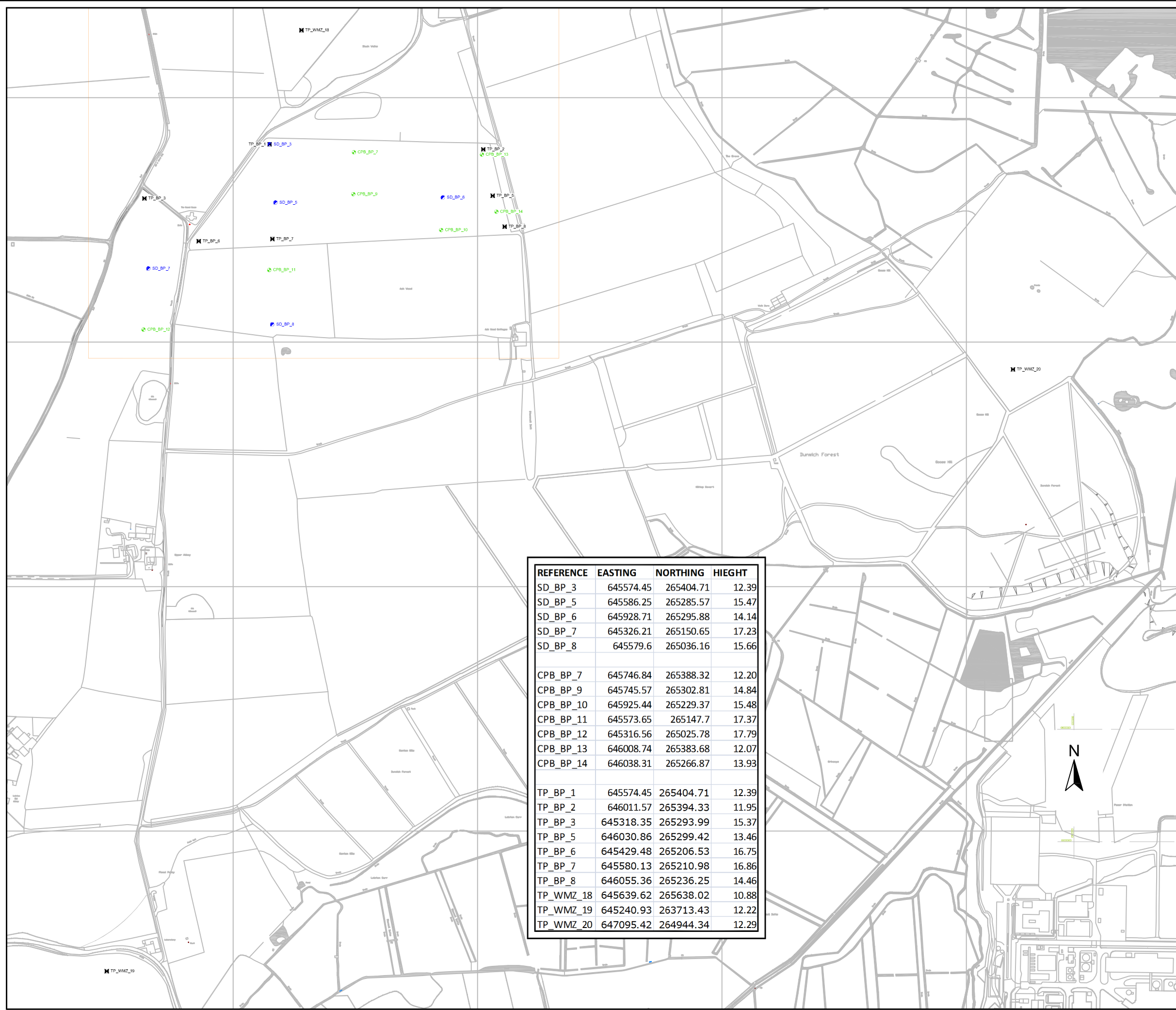


ORIGIN SIZE





A4

FIGURE

1



LEGEND

-  Trial Pit Location
-  Cable Percussion Borehole Location
-  Sonic Test Location
-  Shown on sheet 2b

REFERENCE	EASTING	NORTHING	HIEGHT
SD_BP_3	645574.45	265404.71	12.39
SD_BP_5	645586.25	265285.57	15.47
SD_BP_6	645928.71	265295.88	14.14
SD_BP_7	645326.21	265150.65	17.23
SD_BP_8	645579.6	265036.16	15.66
CPB_BP_7	645746.84	265388.32	12.20
CPB_BP_9	645745.57	265302.81	14.84
CPB_BP_10	645925.44	265229.37	15.48
CPB_BP_11	645573.65	265147.7	17.37
CPB_BP_12	645316.56	265025.78	17.79
CPB_BP_13	646008.74	265383.68	12.07
CPB_BP_14	646038.31	265266.87	13.93
TP_BP_1	645574.45	265404.71	12.39
TP_BP_2	646011.57	265394.33	11.95
TP_BP_3	645318.35	265293.99	15.37
TP_BP_5	646030.86	265299.42	13.46
TP_BP_6	645429.48	265206.53	16.75
TP_BP_7	645580.13	265210.98	16.86
TP_BP_8	646055.36	265236.25	14.46
TP_WMZ_18	645639.62	265638.02	10.88
TP_WMZ_19	645240.93	263713.43	12.22
TP_WMZ_20	647095.42	264944.34	12.29

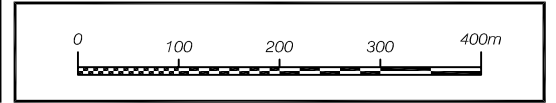
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DIMENSION		SCALE	ORIGIN SIZE		
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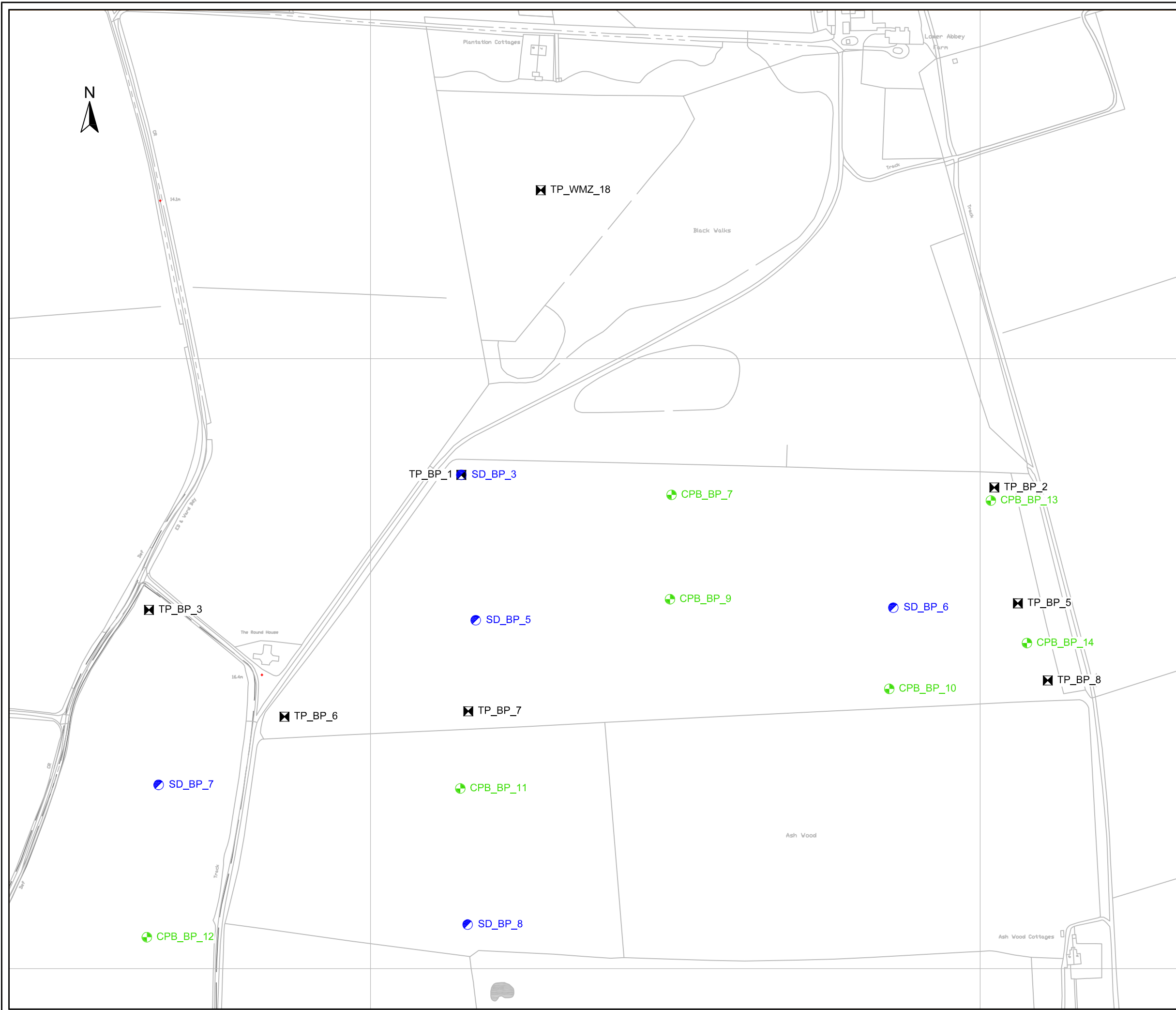
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CLIENT	NNB Generation Company Ltd	
PROJECT	Sizewell C Onshore GI	
TITLE	EXPLORATORY HOLE LOCATION PLAN	
JOB NO.	763468	FIGURE 2a

DRAWING STATUS	-	REV.	00
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LEGEND

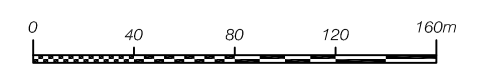
- ▣ Trial Pit Location
- ⊕ Cable Percussion Borehole Location
- ⊙ Sonic Test Location

00	07.09.2015	-	MW	CH	-
REV.	DATE	DESCRIPTION	BY	CHD.	APR.
DIMENSION		SCALE	ORIGIN SIZE		
m		1:3000	A3		

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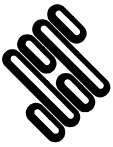
Tel: 01977 552255
 Fax: 01977 552299
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CLIENT	
NNB Generation Company Ltd	
PROJECT	
Sizewell C Onshore GI	
TITLE	
EXPLORATORY HOLE LOCATION PLAN	
JOB NO.	FIGURE
763468	2b
DRAWING STATUS	REV.
-	00



APPENDIX B

- (i) Key to Exploratory Hole Logs
 - (ii) Borehole Logs
 - (iii) Trial Pit Logs
 - (iv) Sonic Logs



KEY TO EXPLORATORY HOLE LOGS - SUMMARY OF ABBREVIATIONS

SAMPLING

Sample type codes

B	=	Bulk disturbed sample.
D	=	Small disturbed sample.

ROTARY DRILLING INFORMATION

W	=	Water flush returns (%)
TCR	=	Total core recovery (%)
SCR	=	Solid core recovery (%)
RQD	=	Rock quality designations (%)
If	=	Fracture spacing (mm).

In the fracture column (i) denotes discontinuity is infilled (refer to Fracture Table for details).

Where variable the minimum - average - maximum spacing may be quoted.
'NI' denotes non-intact core. 'NA' denotes not applicable.

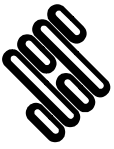
All lengths used to determine rock core mechanical properties taken along the centre line of the core. Obvious induced fractures have been ignored.

The assessment of solid core is based on lengths that show a full diameter and not necessarily a full circumference.

AZCL = Assessed zone of core loss.

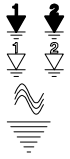
ADDITIONAL NOTES

1. All soil and rock descriptions and legends in general accordance with BS EN ISO 14688-1, 14688-2, 14689-1, and BS5930:1999 including Amendment 2 (2010).
2. Material types divided by a broken line (---) indicates an unclear boundary.
3. The data on any sheet within the report showing the AGS icon is available in the AGS format.



KEY TO EXPLORATORY HOLE LOGS - SUMMARY OF GRAPHIC SYMBOLS

WATER COLUMN SYMBOLS



First water strike, second water strike etc.

Standing water level following first strike, standing water level following second strike etc.

Seepage.

Standing water level recorded at documented date.

MATERIAL GRAPHIC LEGENDS



CLAY



Clayey gravelly SAND



Gravelly clayey SAND



Clayey SAND



Gravelly SAND



SAND



Sandy CLAY



Sandy silty CLAY



Silty sandy CLAY



Gravelly sandy CLAY



Sandy gravelly CLAY



Topsoil



Silty gravelly SAND



Silty gravelly SAND with COBBLES



Silty SAND

INSTRUMENTATION SYMBOLS



Backfill



Bentonite seal



Gravel filter



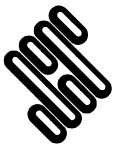
Upstanding cover



Plain pipe



Slotted pipe

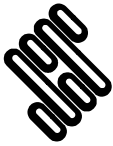


Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: CPB BP7	
Contract Ref: 763468		Start: 30.06.15 End: 01.07.15	Ground Level (m): 12.20	National Grid Co-ordinate: E:645746.8 N:265388.3	Sheet: 1 of 3

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.00-0.40	1	B				TOPSOIL. Light brown slightly clayey slightly gravelly fine to medium SAND. Gravel is angular medium to coarse of flint and quartzite.	0.40	
0.50-1.00	2	B				Orangish buff slightly clayey gravelly medium SAND. Gravel is rounded to angular medium to coarse of flint and quartzite.		
1.30	3	D				... below 1.50m, sand is medium to coarse and becomes slightly gravelly.	(3.10)	
1.50-2.00	4	B						
2.30	5	D				... below 2.30m, occasional pockets of soft grey clay.	3.50	
3.50-4.00	6	B				Orange fine to medium SAND.	(0.60)	
4.10-4.50	9	B				Yellowish buff slightly clayey gravelly medium to coarse SAND. Gravel is subangular to rounded medium to coarse of flint and quartzite.	(2.80)	
4.80	10	D						
5.00-5.50	11	B				... below 6.00m, becomes slightly gravelly and whitish buff in colour.	6.90	
5.80	12	D						
6.00-6.50	13	B				Orange slightly clayey slightly gravelly medium to coarse SAND. Gravel is angular fine to medium of flint and quartzite and rounded medium iron coated mudstone.	(2.40)	
6.80	14	D						
7.00-7.50	15	B						
7.80	16	D						
8.00-8.50	17	B						
8.80	18	D						

GINT LIBRARY v8.05.GLB LibVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log CABLE PERCUSSION LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 13:43 | SH. Structural Soils Ltd, Branch Office - Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552259, Web: www.soils.co.uk, Email: ask@soils.co.uk

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks		
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)			
01/07/15	06:15	7.00	8.50		6.90	5.00	7.00	04:00	1. Location GPR and UXO cleared. 2. Hand dug inspection pit to 1.20m. 3. Groundwater encountered at 12.70m rising to 11.70m after 20 minutes. 4. Water added to assist drilling. 5. Borehole backfilled with bentonite on completion.		
01/07/15		12.70	12.50		12.70	7.00	8.00	02:00			
01/07/15	13:00	20.00	20.00		12.50						
Method Used: Cable percussion						Plant Used: Dando 2000		Drilled By: DJ		Logged By: SHaynes	Checked By:
All dimensions in metres								Scale: 1:50			

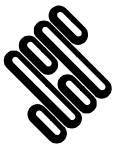


Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: CPB BP7
Contract Ref: 763468	Start: 30.06.15 End: 01.07.15	Ground Level (m): 12.20	National Grid Co-ordinate: E:645746.8 N:265388.3	Sheet: 2 of 3

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend	
Depth	No	Type	Results						
9.00-9.50	19	D			Backfill		9.30		
9.80	20	D							
10.00-10.50	21	B							
10.80	22	D							
11.00-11.50	23	B							
11.80	24	D							
12.00-12.50	25	B							
12.80	26	D							
13.00-13.50	27	B							
13.80	28	D							
14.00-14.50	29	B							
14.80	30	D							
15.00-15.50	31	B							
15.80	32	D							
16.00-16.50	33	B							
16.80	34	D							
17.00-17.50	35	B							
17.80	36	D							

GINT LIBRARY v8.05.GLB.LibVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log CABLE PERCUSSION LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 13:44 | SH. Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
								All dimensions in metres	Scale: 1:50	
Method Used: Cable percussion			Plant Used: Dando 2000			Drilled By: DJ		Logged By: SHaynes		Checked By:



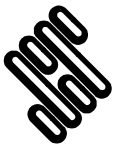
Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: CPB BP7
Contract Ref: 763468	Start: 30.06.15 End: 01.07.15	Ground Level (m): 12.20	National Grid Co-ordinate: E:645746.8 N:265388.3	Sheet: 3 of 3

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
18.00-18.50	37	B				Orange slightly clayey slightly gravelly medium to coarse SAND. Gravel is angular fine to medium of shell fragments and occasional subangular to subrounded fine to medium flint and tabular iron coated mudstone. <i>(stratum copied from 9.30m from previous sheet)</i> ... below 19.00m, sand is medium to coarse.		
18.80	38	D						
19.00-19.50	39	B						
19.80	40	D						
						Cable percussion borehole terminated at 20.00m depth.	20.00	

GINT LIBRARY v8.05.GLB LibVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log CABLE PERCUSSION LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 13:44 | SH. Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks		
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)			
Method Used: Cable percussion								Plant Used: Dando 2000	Drilled By: DJ	Logged By: SHaynes	Checked By: AGS

All dimensions in metres Scale: **1:50**



STRUCTURAL SOILS

DRAFT BOREHOLE LOG

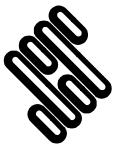
Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: CPB BP9	
Contract Ref: 763468		Start: 07.07.15 End: 08.07.15	Ground Level (m): 14.84	National Grid Co-ordinate: E:645745.6 N:265302.8	Sheet: 1 of 3

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.00-0.50	1	B				TOPSOIL. Brown slightly clayey slightly gravelly medium SAND. Gravel is angular fine to medium of flint and quartzite.	(0.50)	
0.60-1.00	2	B				Orange slightly gravelly clayey fine to medium SAND. Gravel is angular medium to coarse of flint and quartzite.	(0.70)	
1.30-1.50	3	B				Brownish buff slightly gravelly fine to medium SAND. Gravel is angular fine of shell and occasional angular fine flint.		
1.80	4	D				... below 2.00m, sand is medium.	(1.80)	
2.00-2.50	5	B						
2.80	6	D				Buff slightly clayey gravelly medium to coarse SAND. Gravel is angular to rounded fine to coarse of flint and quartzite.	3.00	
3.00-3.50	7	B						
3.80	8	D				... below 4.00m, sand is coarse.	(1.70)	
4.00-4.50	9	B						
4.80	10	D				Orangish buff locally clayey slightly gravelly medium to coarse SAND. Gravel is angular to rounded of fine to coarse flint and quartzite. ... between 4.70m and 5.90m, lenses of soft grey and brown clay.	4.70	
5.00-5.50	11	B						
5.80	12	D				Buff gravelly coarse SAND. Gravel is angular to rounded fine to coarse of flint and quartzite.	(2.30)	
6.00-6.50	13	B						
6.80	14	D				... below 8.00m, becomes slightly gravelly and sand is medium to coarse.	7.00	
7.00-7.50	15	B						
7.80	16	D						
8.00-8.50	17	B						
8.80	18	D					(3.70)	

GINT LIBRARY v8.05.GI.B LibVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log CABLE PERCUSSION LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 13:44 | SH. Structural Soils Ltd, Branch Office - Castleford, The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
07/07/15		5.00	4.80		5.00				1. Location GPR and UXO cleared. 2. Hand dug inspection pit to 1.20m. 3. Water added to assist drilling. 4. Groundwater encountered at 6.00m rising to 4.80m after 20 minutes, and 15.70m rising to 14.20m after 20 minutes. 5. Borehole backfilled with bentonite on	
08/07/15		15.70	15.50		15.70					
Method Used: Cable percussion						Plant Used: Dando 2000			Drilled By: DJ	
Logged By: SHaynes						Checked By: SHaynes			All dimensions in metres Scale: 1:50	





STRUCTURAL SOILS

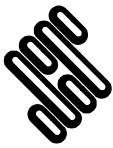
DRAFT BOREHOLE LOG

Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: CPB BP9	
Contract Ref: 763468		Start: 07.07.15 End: 08.07.15	Ground Level (m): 14.84	National Grid Co-ordinate: E:645745.6 N:265302.8	Sheet: 2 of 3

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend																	
Depth	No	Type	Results																						
9.00-9.50	19	B				Buff gravelly coarse SAND. Gravel is angular to rounded fine to coarse of flint and quartzite. <i>(stratum copied from 7.00m from previous sheet)</i>																			
9.80	20	D				... below 10.00m, sand is medium with occasional gravel.	10.70																		
10.00-10.50	21	B				Orange slightly gravelly medium SAND. Gravel is angular fine of flint and rounded medium iron coated mudstone.	(1.20)																		
10.80	22	D				Orangish buff slightly clayey slightly gravelly medium SAND. Gravel is angular fine of shell fragments and angular rounded fine to coarse flint and quartzite.	11.90																		
11.00-11.50	23	B				Orangish brown slightly clayey gravelly coarse SAND with pockets and lenses of soft brown and red sandy clay. Gravel is rounded to subangular fine to medium of flint and quartzite.	(3.10)																		
11.80	24	D				... below 14.00m, colour is brownish orange.	15.00																		
12.00-12.50	25	B				Orangish brown slightly clayey gravelly slightly coarse SAND. Gravel is angular fine shell and angular to rounded fine to medium of flint and quartzite and red iron coated sandstone.	(2.00)																		
12.80	26	D				... below 16.00m, slightly gravelly.	17.00																		
13.00-13.50	27	B																							
13.80	28	D																							
14.00-14.50	29	B																							
14.80	30	D																							
15.00-15.50	31	B																							
15.80	32	D																							
16.00-16.50	33	B																							
16.80	34	D																							
17.00-17.50	35	B																							
17.80	36	D																							

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks						
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)							
									completion.						
Method Used: Cable percussion								Plant Used: Dando 2000		Drilled By: DJ		Logged By: SHaynes		Checked By: AGS	

GINT LIBRARY v8.05.GLB.LibVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log CABLE PERCUSSION LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 13:44 | SH. Structural Soils Ltd, Branch Office - Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk



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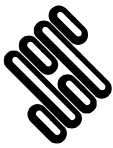
DRAFT BOREHOLE LOG

Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: CPB BP9
Contract Ref: 763468	Start: 07.07.15 End: 08.07.15	Ground Level (m): 14.84	National Grid Co-ordinate: E:645745.6 N:265302.8	Sheet: 3 of 3

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
18.00-18.50	37	B				Orangish brown slightly gravelly slightly clayey medium SAND. Gravel is angular fine shell and angular to rounded fine to medium of flint and quartzite and red iron coated sandstone. <i>(stratum copied from 17.00m from previous sheet)</i> ... below 18.00m, colour is orange.	(3.00)	
18.80	38	D						
19.00-19.50	39	B						
19.80	40	D					20.00	
						Cable percussion borehole terminated at 20.00m depth.		

GINT LIBRARY v8.05.GLB.LibVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log CABLE PERCUSSION LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 13:44 | SH. Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
								All dimensions in metres	Scale: 1:50
Method Used: Cable percussion			Plant Used: Dando 2000			Drilled By: DJ		Logged By: SHaynes	Checked By:



STRUCTURAL SOILS

DRAFT BOREHOLE LOG

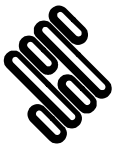
Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: CPB BP10	
Contract Ref: 763468		Start: 02.07.15 End: 06.07.15	Ground Level (m): 15.48	National Grid Co-ordinate: E:645925.4 N:265229.4	
Sheet: 1 of 3					

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.00-0.40	1	B				TOPSOIL. Light brown slightly clayey slightly gravelly fine to medium SAND. Gravel is angular to subrounded fine to coarse of flint and quartzite.	0.40	
0.50-1.00	2	B				Soft light brownish orange slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse of flint and quartzite.	(0.60)	
1.00-1.50	3	B				Orange slightly clayey fine to medium SAND with pockets of orange sandy clay.	1.00	
1.80-2.00	4	B					(1.80)	
2.30	5	D					2.80	
2.90	6	D				Buff slightly clayey medium SAND.		
3.00-3.50	7	B					(1.20)	
3.80	8	D					4.00	
4.00-4.50	9	B				Buff slightly gravelly medium to coarse SAND. Gravel is angular to rounded fine to coarse of flint and quartzite.		
4.80	10	D						
5.00-5.50	11	B				... below 5.00m, sand is coarse.	(2.60)	
5.80	12	D						
6.00-6.50	13	B					6.60	
6.80	14	D				Buff slightly clayey slightly gravelly coarse SAND. Gravel is angular fine of shell fragments and occasional rounded to subangular fine to medium flint.		
7.00-7.50	15	B						
7.80	16	D						
8.00-8.50	17	B				... below 8.00m, colour is orangish buff. 8.00m-11.00m, occasional gravel of angular tabular medium iron coated mudstone.	(4.40)	
8.80	18	D						

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
03/07/15	06:15	7.50	8.50		7.40	5.00	5.60	03:40	1. Location GPR and UXO cleared. 2. Hand dug inspection pit to 1.20m. 3. No groundwater encountered whilst drilling. 4. Water added to assist drilling. 5. Borehole backfilled with bentonite on completion.	
06/07/15	08:30	17.00	17.00		15.50					
Method Used: Cable percussion						Plant Used: Dando 2000			Drilled By: DJ	
Logged By: SHaynes						Checked By: SHaynes			Scale: 1:50	

GINT LIBRARY v8.05.GLB LibVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log CABLE PERCUSSION LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 13:44 | SH. Structural Soils Ltd, Branch Office - Castleford, The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk





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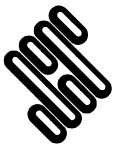
DRAFT BOREHOLE LOG

Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: CPB BP10	
Contract Ref: 763468		Start: 02.07.15 End: 06.07.15	Ground Level (m): 15.48	National Grid Co-ordinate: E:645925.4 N:265229.4	Sheet: 2 of 3

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thick-ness)	Material Graphic Legend
Depth	No	Type	Results					
9.00-9.50	19	B				Buff slightly clayey slightly gravelly coarse SAND. Gravel is angular fine of shell fragments and occasional rounded to subangular fine to medium flint. <i>(stratum copied from 6.60m from previous sheet)</i> ... below 9.00m, sand is coarse.		
9.80	20	D						
10.00-10.50	21	B						
10.80	22	D					11.00	
11.00-11.50	23	B				Orange slightly clayey gravelly medium to coarse SAND. Gravel is angular fine to medium of flint and quartzite and occasional shell fragments.		
11.80	24	D						
12.00-12.50	25	B				... below 12.00m, sand is coarse.		
12.80	26	D						
13.00-13.50	27	B				... below 13.00m, sand is buff coloured.		
13.80	28	D						
14.00-14.50	29	B				... below 14.00m, becomes gravelly of angular fine to medium shell fragments and occasional rounded to angular fine to medium flint and quartzite.		
14.80	30	D						
15.00-15.50	31	B					(9.00)	
15.80	32	D						
16.00-16.50	33	B						
16.80	34	D						
17.00-17.50	35	B				... below 17.00m, sand is orangish buff.		
17.80	36	D						

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Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
Method Used: Cable percussion						Plant Used: Dando 2000			Drilled By: DJ	
						Logged By: SHaynes			Checked By:	
All dimensions in metres								Scale: 1:50		



Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: CPB BP10
Contract Ref: 763468	Start: 02.07.15 End: 06.07.15	Ground Level (m): 15.48	National Grid Co-ordinate: E:645925.4 N:265229.4	Sheet: 3 of 3

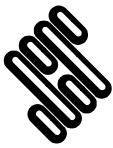
Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
18.00-18.50	37	B				Orange slightly clayey gravelly medium to coarse SAND. Gravel is angular fine to medium of flint and quartzite and occasional shell fragments. <i>(stratum copied from 11.00m from previous sheet)</i>		
18.80	38	D						
19.00-19.50	39	B						
19.80	40	D						
Cable percussion borehole terminated at 20.00m depth.							20.00	

GINT LIBRARY v8.05.GLB.LibVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log CABLE PERCUSSION LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 13:44 | SH. Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks		
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)			
Method Used: Cable percussion								Plant Used: Dando 2000	Drilled By: DJ	Logged By: SHaynes	Checked By: AGS

All dimensions in metres Scale: **1:50**





STRUCTURAL SOILS

DRAFT BOREHOLE LOG

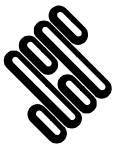
Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: CPB BP11	
Contract Ref: 763468		Start: 15.06.15 End: 18.06.15	Ground Level (m): 17.37	National Grid Co-ordinate: E:645573.7 N:265147.7	Sheet: 1 of 3

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.00-0.50	1	B				TOPSOIL: Brown slightly clayey slightly gravelly medium SAND. Gravel is angular to rounded fine to medium of flint and quartzite.	(0.50)	
0.60-1.00	2	B				Stiff brown slightly gravelly sandy CLAY. Gravel is angular to rounded fine to coarse of flint and quartzite.		
1.30	3	D				... 1.20m, becomes soft to firm very sandy and orange in colour.	(2.10)	
1.50-2.00	4	B						
2.20	5	D					2.60	
2.70-3.00	6	B				Orange silty fine SAND.	(0.50)	
3.20-3.50	7	B				Orangish buff slightly clayey locally clayey fine to medium SAND.		
3.80	8	D						
4.00-4.50	9	B					(2.40)	
4.80	10	D				... from 4.80m, occasional gravel of angular to rounded fine to medium flint.		
5.00-5.50	11	B					5.50	
5.80	12	D				Buff clayey slightly gravelly medium to coarse SAND with pockets and lenses of soft brown and grey clay. Gravel is rounded to angular medium to coarse of flint and quartzite.	(1.50)	
6.00-6.50	13	B						
7.00-7.50	15	B				Yellow gravelly coarse SAND. Gravel is angular to subrounded medium to coarse of flint, quartzite and mudstone.	7.00	
7.60-8.00	16	B						
8.20	17	D						
8.50-9.00	18	B					(3.10)	

GINT LIBRARY v8.05.GLB LibVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log CABLE PERCUSSION LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 13:44 | SH. Structural Soils Ltd, Branch Office - Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
17/06/15	08:30	9.00	10.00	250	Dry	7.50	9.40	04:00	
17/06/15	15:30	20.00	20.00	250	18.00	9.50	12.00	04:00	
18/06/15	08:30	18.50	20.00	250	16.00				

All dimensions in metres		Scale: 1:50
Method Used: Cable percussion	Plant Used: Dando 2000	Drilled By: DJ
	Logged By: SHaynes	Checked By:



STRUCTURAL SOILS

DRAFT BOREHOLE LOG

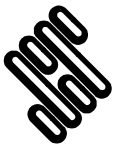
Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: CPB BP11	
Contract Ref: 763468		Start: 15.06.15 End: 18.06.15	Ground Level (m): 17.37	National Grid Co-ordinate: E:645573.7 N:265147.7	Sheet: 2 of 3

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
9.20	19	D			Yellow gravelly coarse SAND. Gravel is angular to subrounded medium to coarse of flint, quartzite and mudstone. <i>(stratum copied from 7.00m from previous sheet)</i>			
9.50-10.00	21	B				10.10		
10.20-10.50	22	B			Orange medium to coarse SAND with occasional gravel of subangular fine to medium flint. ... between 11.80m and 13.00m, slightly gravelly of tabular medium iron coated mudstone gravel.			
10.80	22	D						
11.00-11.50	23	B						
11.80	24	D						
12.00-12.50	25	B						
12.00-12.50	26	D				(4.90)		
13.00-13.50	27	B						
13.80	28	D						
14.00-14.50	29	B						
14.80	30	D				15.00		
15.00-15.50	31	B			Orangish brown slightly clayey slightly gravelly to gravelly coarse SAND. Gravel is angular fine to medium of shell fragments and occasional rounded to angular fine to medium flint, quartzite and iron coated mudstone and sandstone. Occasional whole shell.			
15.80	32	D						
16.00-16.50	33	B						
16.80	34	D						
17.00-17.50	35	B						
17.80	36	D				(5.00)		

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
Method Used: Cable percussion						Plant Used: Dando 2000		Drilled By: DJ	Logged By: SHaynes	Checked By: AGS

GINT LIBRARY v8.05.GLB.LibVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log CABLE PERCUSSION LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 13:44 | SH. Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

All dimensions in metres Scale: **1:50**



STRUCTURAL SOILS

DRAFT BOREHOLE LOG

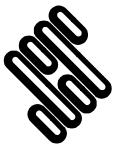
Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: CPB BP11
Contract Ref: 763468	Start: 15.06.15 End: 18.06.15	Ground Level (m): 17.37	National Grid Co-ordinate: E:645573.7 N:265147.7	Sheet: 3 of 3

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
18.00-18.50	37	B				Orangish brown slightly clayey slightly gravelly to gravelly coarse SAND. Gravel is angular fine to medium of shell fragments and occasional rounded to angular fine to medium flint, quartzite and iron coated mudstone and sandstone. Occasional whole shell. <i>(stratum copied from 15.00m from previous sheet)</i>		
18.80	38	D						
19.00-19.50	39	B						
19.80	40	D						
Cable percussion borehole terminated at 20.00m depth.							20.00	

GINT LIBRARY v8.05.GLB LibVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log CABLE PERCUSSION LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 13:44 | SH. Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks						
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)							
Method Used: Cable percussion								Plant Used: Dando 2000		Drilled By: DJ		Logged By: SHaynes		Checked By: AGS	

All dimensions in metres Scale: **1:50**



Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: CPB BP12	
Contract Ref: 763468		Start: 10.06.15 End: 15.06.15	Ground Level (m): 17.79	National Grid Co-ordinate: E:645316.6 N:265025.8	Sheet: 1 of 3

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.00-0.50	1	B				TOPSOIL: Orangish brown slightly clayey gravelly fine to medium SAND. Gravel is angular to rounded fine to coarse of flint and quartzite.	(0.65)	
0.70-1.00	2	B				Brownish orange slightly clayey slightly gravelly medium SAND with pockets of orange clay. Gravel is angular to rounded fine to coarse of flint and quartzite.	1.00	
1.10-1.50	3	B				Firm brownish orange slightly gravelly slightly sandy locally sandy CLAY. Gravel is angular to subrounded fine to coarse of flint, chalk and quartzite.		
1.80	4	D						
2.00-2.50	5	B					(2.50)	
2.80	6	D						
3.00-3.50	7	B						
3.60-4.00	8	B				Light brownish orange slightly clayey slightly gravelly fine to medium SAND with pockets of orange clay. Gravel is subangular to subrounded fine to medium of chalk and flint.	(0.60)	
4.20-4.50	9	B				Light brownish orange slightly clayey locally clayey occasionally to slightly gravelly fine to medium SAND. Gravel is angular to subrounded fine to medium of flint and quartzite and occasional chalk.		
4.80	10	D						
5.00-5.80	11	B						
5.80	12	D				... below 5.80m, sand is medium and buff coloured.	(3.80)	
6.00-6.50	13	B				... below 6.50m, sand is coarse.		
6.80	14	D						
7.00-7.50	15	B				... at 7.00m, occasional thick laminations of soft grey and brown clay.		
7.80	16	D					7.90	
8.00-8.50	17	B				Orange slightly clayey coarse SAND and GRAVEL with medium cobble content. Gravel is angular to rounded medium to coarse of flint and quartzite. Cobbles are subangular of flint.		
8.80	18	D					(2.10)	

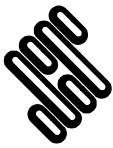
GINT LIBRARY v8.05 - Lib0004 ProjVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log CABLE PERCUSSION LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 13:44 | SH. Structural Soils Ltd, Branch Office - Castleford, The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
12/06/15	08:00	10.50	11.10		10.40	9.50	10.50	02:00	
15/06/15	08:00	12.00	13.30		Dry	10.50	12.80	04:00	

All dimensions in metres Scale: **1:50**

Method Used: Cable percussion	Plant Used: Dando 2000	Drilled By: DJ	Logged By: SHaynes	Checked By: AGS
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1. Location GPR and UXO cleared.
2. Hand dug inspection pit to 1.20m.
3. Water added to assist drilling.
4. No groundwater encountered.
5. Borehole backfilled with bentonite on completion.



STRUCTURAL SOILS

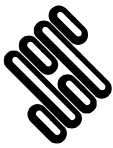
DRAFT BOREHOLE LOG

Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: CPB BP12	
Contract Ref: 763468		Start: 10.06.15 End: 15.06.15	Ground Level (m): 17.79	National Grid Co-ordinate: E:645316.6 N:265025.8	Sheet: 2 of 3

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
9.00-9.50	19	B				Orange slightly clayey coarse SAND and GRAVEL with medium cobble content. Gravel is angular to rounded medium to coarse of flint and quartzite. Cobbles are subangular of flint. <i>(stratum copied from 7.90m from previous sheet)</i>		
9.80	20	D					10.00	
10.00-10.50	21	B				Light buff medium SAND.		
10.80	22	D						
11.00-11.50	23	B						
11.80	24	D				... 11.80m, occasional pockets of soft brown clay.		
12.00-12.50	25	B						
12.80	26	D						
13.00-13.50	27	B				... from 13.00m, sand becomes medium to coarse.	(6.50)	
13.80	28	D						
14.00-14.50	29	B						
14.80	30	D						
15.00-15.50	31	B				... below 15.00m, pockets and lenses of soft grey and brown clay. Sand is orangish buff in colour.		
15.80	32	D						
16.00-16.40	33	B						
16.50-17.00	34	B				Soft brown slightly sandy silty CLAY with thin to thick laminations of grey and orange silt, clay and sand.	16.50	
17.20	35	D						
17.50-18.00	36	B						

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
Method Used: Cable percussion						Plant Used: Dando 2000			Drilled By: DJ	
						Logged By: SHaynes			Checked By: AGS	
						All dimensions in metres			Scale: 1:50	

GINT LIBRARY v8.05.GLB.LibVersion: v8.05 - Lib0004 ProjVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log CABLE PERCUSSION LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 13:44 | SH. Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk



STRUCTURAL SOILS

DRAFT BOREHOLE LOG

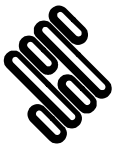
Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: CPB BP12
Contract Ref: 763468	Start: 10.06.15 End: 15.06.15	Ground Level (m): 17.79	National Grid Co-ordinate: E:645316.6 N:265025.8	Sheet: 3 of 3

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend	
Depth	No	Type	Results						
18.20	37	D				Soft brown slightly sandy silty CLAY with thin to thick laminations of grey and orange silt, clay and sand. <i>(stratum copied from 16.50m from previous sheet)</i>	(3.50)		
18.50-19.00	38	B							
19.20	39	D							
19.50-20.00	40	B							
						Cable percussion borehole terminated at 20.00m depth.	20.00		

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Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks		
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)			
Method Used: Cable percussion								Plant Used: Dando 2000	Drilled By: DJ	Logged By: SHaynes	Checked By:

All dimensions in metres Scale: **1:50**



STRUCTURAL SOILS

DRAFT BOREHOLE LOG

Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: CPB BP13	
Contract Ref: 763468		Start: 18.06.15 End: 24.06.15	Ground Level (m): 12.07	National Grid Co-ordinate: E:646008.7 N:265383.7	Sheet: 1 of 3

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.00-0.40	1	B				TOPSOIL: Brown slightly clayey slightly gravelly medium SAND. Gravel is angular to rounded medium of flint and quartzite.	0.40	
0.50-0.90	2	B				Orangish buff slightly clayey gravelly medium to coarse SAND. Gravel is angular to subrounded fine to coarse of flint and quartzite. . . . 0.50m-1.80m, colour is orangish brown.	(2.40)	
1.00-1.50	3	B						
1.80	4	D						
2.00-2.50	5	B						
2.80	6	D				Orangish buff slightly clayey gravelly coarse SAND. Gravel is angular to subrounded fine to coarse of flint and quartzite.	3.00	
3.00-3.50	7	B				Orange slightly clayey slightly gravelly medium to coarse SAND. Gravel is angular to rounded fine to coarse of flint and quartzite. . . . 3.00m-4.00m, pockets and lenses of soft grey and brown clay.		
3.80	8	D						
4.00-4.50	9	B						
4.80	10	D				. . . from 5.00m, frequent medium rounded brown iron coated nodules of mudstone .	(3.60)	
5.00-5.50	11	B						
5.80	12	D				Orangish brown slightly clayey locally clayey slightly gravelly locally gravelly medium to coarse SAND. Gravel is angular fine to medium of shell fragments and angular to rounded fine to medium of flint and occasional quartzite. Occasional whole shells <20mm.	6.60	
6.00-6.50	15	B						
6.80	16	D						
7.00-7.75	17	B						
7.80	18	D						
8.00-8.50	19	B						
8.80	20	D						

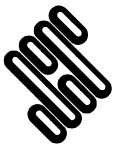
GINT LIBRARY v8.05.GLB LibVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log CABLE PERCUSSION LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 13:44 | SH. Structural Soils Ltd, Branch Office - Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
22/06/15	09:00	2.00	3.00		Dry	9.50	12.00	04:30	
23/06/15	09:00	11.20	12.00		10.20	12.00	12.70	01:00	
23/06/15		12.70	12.50		12.70	19.00	20.00	01:30	

All dimensions in metres Scale: **1:50**

Method Used: Cable percussion	Plant Used: Dando 2000	Drilled By: DJ	Logged By: SHaynes	Checked By:
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1. Location GPR and UXO cleared.
2. Hand dug inspection pit to 1.20m.
3. Water added to assist drilling.
4. Groundwater encountered at 12.70m rising to 11.00m after 20 minutes.
5. Standpipe installed on completion.



STRUCTURAL SOILS

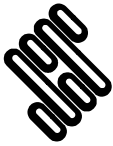
DRAFT BOREHOLE LOG

Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: CPB BP13	
Contract Ref: 763468		Start: 18.06.15 End: 24.06.15	Ground Level (m): 12.07	National Grid Co-ordinate: E:646008.7 N:265383.7	Sheet: 2 of 3

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
9.00-9.50	21	B				<p>Orangish brown slightly clayey locally clayey slightly gravelly locally gravelly medium to coarse SAND. Gravel is angular fine to medium of shell fragments and angular to rounded fine to medium of flint and occasional quartzite. Occasional whole shells <20mm. <i>(stratum copied from 6.60m from previous sheet)</i></p> <p>... between 11.00m-12.00m, pockets of soft grey and brown clay.</p> <p>... between 12.80m-17.00m, rounded medium iron coated mudstone nodules.</p>		
9.80	22	D						
10.00-10.50	23	B						
10.80	24	D						
11.00-11.50	25	B						
11.80	26	D						
12.00-12.50	27	B						
12.80	28	D						
13.00-13.50	29	B						
13.80	30	D						
14.00-14.50	31	B						
14.80	32	D						
15.00-15.50	33	B						
15.80	34	D						
16.00-16.50	35	B						
16.80	36	D						
17.00-17.50	37	B						
17.80	38	D						

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks		
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)			
Method Used: Cable percussion						Plant Used: Dando 2000		Drilled By: DJ		Logged By: SHaynes	Checked By: AGS

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DRAFT BOREHOLE LOG

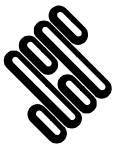
Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: CPB BP13
Contract Ref: 763468	Start: 18.06.15 End: 24.06.15	Ground Level (m): 12.07	National Grid Co-ordinate: E:646008.7 N:265383.7	Sheet: 3 of 3

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
18.00-18.50	39	B				Orangish brown slightly clayey locally clayey slightly gravelly locally gravelly medium to coarse SAND. Gravel is angular fine to medium of shell fragments and angular to rounded fine to medium of flint and occasional quartzite. Occasional whole shells <20mm. <i>(stratum copied from 6.60m from previous sheet)</i>		
18.80	40	D						
19.00-19.50	41	B						
19.80	42	D						
							20.00	

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Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks						
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)							
Method Used: Cable percussion								Plant Used: Dando 2000		Drilled By: DJ		Logged By: SHaynes		Checked By: AGS	

All dimensions in metres Scale: **1:50**

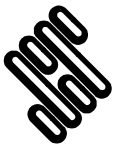


Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: CPB BP14	
Contract Ref: 763468		Start: 24.06.15 End: 29.06.15	Ground Level (m): 13.93	National Grid Co-ordinate: E:646038.3 N:265266.9	Sheet: 1 of 3

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.00-0.40	1	B				TOPSOIL. Light yellowish brown slightly clayey slightly gravelly fine to medium SAND. Gravel is angular to rounded fine to coarse flint and quartzite.	0.40	
0.50-1.00	2	B				Yellowish orange slightly clayey fine to medium SAND.		
1.30	3	D				... below 1.50m, colour is buff.		
1.50-2.00	4	B				... below 2.00m, occasional gravel of angular fine to medium flint.	(3.50)	
2.30	5	D						
2.50-3.00	6	B						
3.00	7	B						
3.80	8	D					3.90	
4.00-4.50	9	B				Buff slightly clayey slightly gravelly coarse SAND. Gravel is angular to subangular fine to medium flint.		
4.80	10	D						
5.00-5.50	11	B					(3.10)	
5.80	12	D						
6.00-6.50	13	B				... below 6.00m, colour is orange with pockets of silty sand.		
6.80	14	D					7.00	
7.00-7.50	15	B				Orange silty fine SAND.		
7.80	16	D					(2.00)	
8.00-8.50	17	B				... below 8.00m, becomes buff in colour.		
8.80	18	D					9.00	

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Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)						
24/06/15		7.00	6.80		7.00	6.00	7.00	02:00	1. Location GPR and UXO cleared. 2. Hand dug inspection pit to 1.20m. 3. Water added to assist drilling. 4. Groundwater encountered at 7.00m rising to 5.70m after 20 minutes and 14.50m rising to 11.60m after 20 minutes. 5. Standpipe installed on completion.					
24/06/15	17:15	10.50	10.50		10.00	10.50	12.50	04:00						
26/06/15	08:00	11.50	12.50		Dry	12.50	13.40	02:15						
29/06/15	09:30	12.00	12.50		11.90									
29/06/15		14.50	14.50		14.50									
Method Used: Cable percussion						Plant Used: Dando 2000			Drilled By: DJ		Logged By: SHaynes		Checked By: AGS	
All dimensions in metres								Scale: 1:50						



STRUCTURAL SOILS

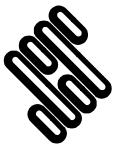
DRAFT BOREHOLE LOG

Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: CPB BP14	
Contract Ref: 763468		Start: 24.06.15 End: 29.06.15	Ground Level (m): 13.93	National Grid Co-ordinate: E:646038.3 N:265266.9	Sheet: 2 of 3

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend	
Depth	No	Type	Results						
9.00-9.50	19	B				Orangish buff clayey slightly gravelly medium SAND. Gravel is rounded to angular fine to medium flint and quartzite.	(1.50)		
9.80	20	D				... below 10.00m, sand is medium to coarse.			
10.00-10.50	21	B							
10.80	22	D							
11.00-11.50	23	B					Orangish buff slightly clayey gravelly medium to coarse SAND. Gravel is angular fine to medium shell fragments and occasional angular to rounded fine to medium flint and quartzite. Occasional whole shell <10mm.		
11.80	24	D					... at 11.50m, occasional gravel of flat angular iron coated mudstone.		
12.00-12.50	25	B					... below 12.00m, colour is buff and sand is coarse becomes gravelly.		
12.80	26	D							
13.00-13.50	27	B					... 13.00m-15.00m, lenses of soft grey and brown laminated clay.		
13.80	28	D							
14.00-14.50	29	B							
14.80	30	D							
15.00-15.50	31	B							
15.80	32	D							
16.00-16.50	33	B					... at 16.00m, thick lense/thin bed orange brown and grey laminated silt and clay.		
16.80	34	D							
17.00-17.50	35	B					... 17.00m-19.00m, gravel of flat rounded medium iron coated mudstone.		
17.80	36	D							

GINT LIBRARY v8.05.GLB.LibVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log CABLE PERCUSSION LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 13:45 | SH. Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
Method Used: Cable percussion						Plant Used: Dando 2000			Drilled By: DJ	
						Logged By: SHaynes			Checked By:	
						All dimensions in metres			Scale: 1:50	



STRUCTURAL SOILS

DRAFT BOREHOLE LOG

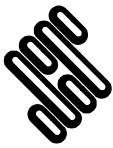
Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: CPB BP14
Contract Ref: 763468	Start: 24.06.15 End: 29.06.15	Ground Level (m): 13.93	National Grid Co-ordinate: E:646038.3 N:265266.9	Sheet: 3 of 3

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
18.00-18.50	37	B				Orangish buff slightly clayey gravelly medium to coarse SAND. Gravel is angular fine to medium shell fragments and occasional angular to rounded fine to medium flint and quartzite. Occasional whole shell <10mm. <i>(stratum copied from 10.50m from previous sheet)</i>		
18.80	38	D						
19.00-19.50	39	B						
19.80	40	D						
Cable percussion borehole terminated at 20.00m depth.							20.00	

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Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks						
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)							
Method Used: Cable percussion								Plant Used: Dando 2000		Drilled By: DJ		Logged By: SHaynes		Checked By: AGS	

All dimensions in metres | Scale: **1:50**

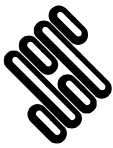


Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Trial Pit: BP1
Contract Ref: 763468	Start: 14.07.15 End: 14.07.15	Ground Lev (m): 12.39	National Grid Co-ordinate: E:645574.5 N:265404.7	Sheet: 1 of 2

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.70	1	B			TOPSOIL: Brown slightly clayey slightly gravelly medium SAND. Gravel is angular to subrounded medium to coarse of flint, quartzite and chalk.	(0.65)		
					Orange and grey locally black clayey slightly gravelly medium SAND. Locally weakly ferrus cemented. Gravel is angular to subrounded fine to coarse of flint and quartzite.	(0.85)		
1.70	2	B			Orange slightly clayey fine to medium SAND with large lenses of soft grey sandy clay with plant material. ... at 2.00m, lense of subrounded to subangular fine to coarse gravel of flint and quartzite.	(1.00)		
2.70	3	B			Yellow clayey slightly gravelly SAND with occasional pockets and lenses of soft grey clay. Gravel is rounded to subrounded fine to medium of flint and quartzite.	(1.00)		
3.00	4	B			... below 3.00m, colour of sand is white.			
3.50	5	B			Trial pit terminated at 3.50m depth.			

GINT LIBRARY v8.05.GI.B LibVersion: v8.05 - Lib0004 ProjVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log TRIAL PIT LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 15:04 | SH. Structural Soils Ltd, Branch Office - Castleford, The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Plan (Not to Scale) 		General Remarks 1. Location GPR and UXO cleared. 2. No groundwater encountered. 3. Easy to excavate with JCB 3CX. 4. Trial pit faces remained stable during excavation. 5. Trial pit backfilled with arisings and compacted in layers.		
Method Used: Machine dug		Plant Used: JCB-3CX		Logged By: SHaynes
		All dimensions in metres		Scale: 1:25
				Checked By:



Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Trial Pit: BP1
Contract Ref: 763468	Start: 14.07.15 End: 14.07.15	Ground Level (m): 12.39	National Grid Co-ordinate: E:645574.5 N:265404.7	Sheet: 2 of 2

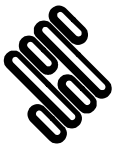
TP BP1 - 3.50m



TP BP1 - SPOIL

GINT LIBRARY v8.05.GI.B.LibVersion: v8.05 - Lib0004 ProjVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log TRIAL PIT LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 15:04 | SH. Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Method Used: Machine dug	Plant Used: JCB-3CX	Logged By: SHaynes	Checked By:	
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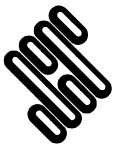


Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Trial Pit: BP2
Contract Ref: 763468	Start: 14.07.15 End: 14.07.15	Ground Level (m): 11.95	National Grid Co-ordinate: E:646011.6 N:265394.3	Sheet: 1 of 2

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.50	1	B				TOPSOIL: Brown slightly clayey slightly gravelly medium SAND. Gravel is angular to rounded fine to coarse of flint and quartzite.	(0.50)	
						Orangish brown slightly clayey slightly gravelly medium SAND. Gravel is angular to rounded fine to coarse of flint and quartzite.	(0.50)	
1.00	2	B				Orange locally dark orange clayey slightly gravelly fine to medium SAND. Gravel is angular to subrounded fine to medium of flint and quartzite.	(1.00)	
							(1.00)	
2.00	3	B				Orange slightly clayey locally clayey slightly gravelly locally gravelly coarse SAND with low cobble content. Gravel is subangular to subrounded fine to coarse of flint and quartzite. Cobbles are subangular flint.	2.00	
						... at 2.00m, occasional gravel of medium to coarse tabular iron coated mudstone.		
2.50	4	B				... at 3.00m, pockets of orange sandy clay.	(1.50)	
3.50	5	B				Trial pit terminated at 3.50m depth.		

GINT LIBRARY v8.05.GI.B LibVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log TRIAL PIT LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 15:04 | SH. Structural Soils Ltd, Branch Office - Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Plan (Not to Scale) 	General Remarks		
	<ol style="list-style-type: none"> 1. Location GPR and UXO cleared. 2. No groundwater encountered. 3. Easy to excavate with JCB 3CX. 4. Trial pit faces remained stable during excavation. 5. Trial pit backfilled with arisings and compacted in layers. 		
All dimensions in metres		Scale:	1:25
Method Used: Machine dug	Plant Used: JCB-3CX	Logged By: SHaynes	Checked By:



Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Trial Pit: BP2
Contract Ref: 763468	Start: 14.07.15 End: 14.07.15	Ground Level (m): 11.95	National Grid Co-ordinate: E:646011.6 N:265394.3	Sheet: 2 of 2

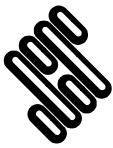
TP BP2 - 3.50m



TP BP2 - SPOIL

GINTE LIBRARY v8.05.GLB.LibVersion: v8.05 - Lib0004 ProjVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log TRIAL PIT LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 15:04 | SH. Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Method Used: Machine dug	Plant Used: JCB-3CX	Logged By: SHaynes	Checked By:	
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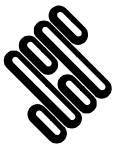


Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Trial Pit: BP3
Contract Ref: 763468	Start: 15.07.15 End: 15.07.15	Ground Lev (m): 15.37	National Grid Co-ordinate: E:645318.4 N:265294.0	Sheet: 1 of 2

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.70	1	B				TOPSOIL: Brown clayey slightly gravelly medium SAND. Gravel is angular to subrounded fine to coarse of flint and quartzite.	(0.45) 0.45	
1.50	2	B				Firm to stiff orange slightly sandy slightly gravelly CLAY. Gravel is rounded to angular fine to coarse of flint, quartzite and chalk.	(1.65) 2.10	
2.50	3	B				Yellow clayey fine to medium SAND.	(1.10) 3.20	
3.00	4	B				Trial pit terminated at 3.20m depth.		

GINT LIBRARY v8.05.GI.B Lib Version: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log TRIAL PIT LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 15:04 | SH. Structural Soils Ltd, Branch Office - Castleford, The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Plan (Not to Scale) 	General Remarks		
	<ol style="list-style-type: none"> 1. Location GPR and UXO cleared. 2. No groundwater encountered. 3. Easy to excavate with JCB 3CX. 4. Trial pit faces remained stable during excavation. 5. Trial pit backfilled with arisings and compacted in layers. 		
All dimensions in metres		Scale:	1:25
Method Used: Machine dug	Plant Used: JCB-3CX	Logged By: SHaynes	Checked By:



Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Trial Pit: BP3
Contract Ref: 763468	Start: 15.07.15 End: 15.07.15	Ground Level (m): 15.37	National Grid Co-ordinate: E:645318.4 N:265294.0	Sheet: 2 of 2

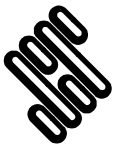
TP BP3 - 3.20m



TP BP3 - SPOIL

GINT LIBRARY v8.05.GI.B.LibVersion: v8.05 - Lib0004 ProjVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log TRIAL PIT LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 15:04 | SH. Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk.

Method Used: Machine dug	Plant Used: JCB-3CX	Logged By: SHaynes	Checked By:	
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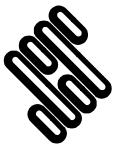


Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Trial Pit: BP5
Contract Ref: 763468	Start: 14.07.15 End: 14.07.15	Ground Level (m): 13.46	National Grid Co-ordinate: E:646030.9 N:265299.4	Sheet: 1 of 2

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.50	1	B				TOPSOIL: Brown slightly clayey slightly gravelly fine to medium SAND. Gravel is angular to subangular medium to coarse of flint and quartzite.	(0.45)	
						Orange slightly clayey slightly gravelly fine to medium SAND. Gravel is angular to subrounded fine to coarse of flint and quartzite. ... at 0.70m, subrounded flint cobble.	(0.45)	
1.00	2	B				Yellow slightly gravelly medium SAND. Gravel is subangular to subrounded fine to medium of flint and quartzite.	(0.80)	
1.70	3	B				Yellowish Buff slightly gravelly to gravelly coarse SAND. Gravel is angular to subrounded fine to coarse of flint and quartzite. ... 2.00m-2.50m, partial collapse of face B.	(0.80)	
						... below 2.50m, full collapse of face B. Trial pit terminated at 2.50m depth.		

GINT LIBRARY v8.05 - Lib0004 ProjVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log TRIAL PIT LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 15:04 | SH. Structural Soils Ltd, Branch Office - Castleford, The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552259, Web: www.soils.co.uk, Email: ask@soils.co.uk

Plan (Not to Scale) 		General Remarks 1. Location GPR and UXO cleared. 2. No groundwater encountered. 3. Easy to excavate with JCB 3CX. 4. Trial pit faces unstable during excavation. 5. Trial pit backfilled with arisings and compacted layers.		
Method Used: Machine dug		Plant Used: JCB-3CX		All dimensions in metres Scale: 1:25
		Logged By: SHaynes		Checked By:



Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Trial Pit: BP5
Contract Ref: 763468	Start: 14.07.15 End: 14.07.15	Ground Level (m): 13.46	National Grid Co-ordinate: E:646030.9 N:265299.4	Sheet: 2 of 2

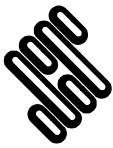
TP BP5 - 2.50m



TP BP5 - SPOIL

GINT LIBRARY v8.05.GLB.LibVersion: v8.05 - Lib0004 ProjVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log TRIAL PIT LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 15:04 | SH. Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Method Used: Machine dug	Plant Used: JCB-3CX	Logged By: SHaynes	Checked By:	
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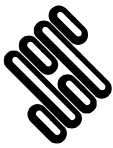


Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Trial Pit: BP6
Contract Ref: 763468	Start: 14.07.15 End: 14.07.15	Ground Level (m): 16.75	National Grid Co-ordinate: E:645429.5 N:265206.5	Sheet: 1 of 2

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.50	1	B				TOPSOIL: Brown slightly to locally clayey slightly gravelly fine to medium SAND. Gravel is angular to rounded fine to coarse of flint and quartzite.	(0.40)	
						Orangish buff locally orange clayey slightly gravelly fine to medium SAND with pockets and lenses of orange sandy clay. Gravel is rounded to angular fine to coarse of flint and quartzite.	0.40	
1.50	2	B				Firm orange locally grey slightly sandy slightly gravelly CLAY. Gravel is angular to rounded fine to coarse of flint, quartzite and chalk.	(1.00)	
							1.40	
2.50	3	B				Yellow and orange clayey fine to medium SAND.	(0.30)	
2.70	4	B				Yellow slightly clayey fine to medium SAND.	2.70	
3.20	5	B				... 2.90m-3.20m, partial collapse of lower faces.	(0.80)	
							3.50	
Trial pit terminated at 3.50m depth.								

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Plan (Not to Scale) 	General Remarks		
	1. Location GPR and UXO cleared. 2. No groundwater encountered. 3. Easy to excavate with JCB 3CX. 4. Faces unstable during excavation. 5. Trial pit backfilled with arisings and compacted in layers.		
All dimensions in metres		Scale:	1:25
Method Used: Machine dug	Plant Used: JCB-3CX	Logged By: SHaynes	Checked By:



Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Trial Pit: BP6
Contract Ref: 763468	Start: 14.07.15 End: 14.07.15	Ground Level (m): 16.75	National Grid Co-ordinate: E:645429.5 N:265206.5	Sheet: 2 of 2

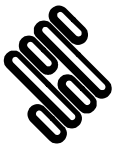
TP BP6 - 3.50m



TP BP6 - SPOIL

GINT LIBRARY v8.05.GLB.LibVersion: v8.05 - Lib0004 ProjVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log TRIAL PIT LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 15:05 | SH. Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk.

Method Used: Machine dug	Plant Used: JCB-3CX	Logged By: SHaynes	Checked By:	
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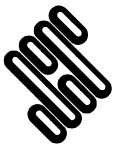


Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Trial Pit: BP7
Contract Ref: 763468	Start: 16.07.15 End: 16.07.15	Ground Level (m): 16.86	National Grid Co-ordinate: E:645580.1 N:265211.0	Sheet: 1 of 2

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						TOPSOIL: Brown slightly clayey slightly gravelly fine to medium SAND. Gravel is angular to subangular fine to coarse of flint and quartzite.	(0.50)	
0.60	1	B				Orange clayey gravelly medium SAND. Gravel is angular to subangular medium to coarse of flint and quartzite.	(0.30)	
0.80	2	B				Firm orange sandy slightly gravelly CLAY. Gravel is rounded to subangular fine to medium occasionally coarse of flint, quartzite and chalk.	0.80	
1.50	3	B				... below 2.00m, colour becomes light orangish brown.	(2.20)	
2.50	4	B					3.00	
3.20	5	B				Whitish yellow slightly clayey fine SAND.	(0.40)	
						Trial pit terminated at 3.40m depth.	3.40	

GINT LIBRARY v8.05 - Lib0004 ProjVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log TRIAL PIT LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 15:05 | SH. Structural Soils Ltd, Branch Office - Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Plan (Not to Scale) 		General Remarks 1. Location GPR and UXO cleared. 2. No groundwater encountered. 3. Easy to excavate with JCB 3CX. 4. Faces of trial pit stable during excavation. 5. Trial pit backfilled with arisings and compacted in layers.		
Method Used: Machine dug		Plant Used: JCB-3CX		All dimensions in metres Scale: 1:25
Logged By: SHaynes		Checked By: SHaynes		



Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Trial Pit: BP7
Contract Ref: 763468	Start: 16.07.15 End: 16.07.15	Ground Level (m): 16.86	National Grid Co-ordinate: E:645580.1 N:265211.0	Sheet: 2 of 2

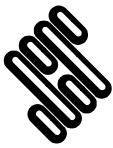
TP BP7 - 3.40m



TP BP7 - SPOIL

GINT LIBRARY v8.05.GLB.LibVersion: v8.05 - Lib0004 ProjVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log TRIAL PIT LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 15:05 | SH. Structural Soils Ltd, Branch Office - Castleford - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Method Used: Machine dug	Plant Used: JCB-3CX	Logged By: SHaynes	Checked By:	
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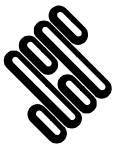


Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Trial Pit: BP8
Contract Ref: 763468	Start: 14.07.15 End: 14.07.15	Ground Level (m): 14.46	National Grid Co-ordinate: E:646055.4 N:265236.3	Sheet: 1 of 2

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.50	1	B				TOPSOIL: Brown slightly clayey slightly gravelly medium SAND. Gravel is angular to subangular medium to coarse of flint.	(0.45)	
						0.45		
1.00	2	B				Buff slightly clayey locally clayey slightly gravelly fine to medium SAND with pockets and lenses of soft to firm buff and orange sandy clay. Gravel is angular to rounded fine to coarse of flint, quartzite and chalk.	(1.05)	
						1.50		
2.00	4	B				Yellow clayey fine to medium SAND with occasional pockets of soft orange sandy clay.	(1.30)	
						2.80		
						... below 2.50m, colour becomes whitish yellow.		
3.00	5	B				Whitish yellow slightly gravelly fine to medium SAND. Gravel is rounded fine to medium of quartzite.	(0.40)	
						3.20		
3.20	6	B				Trial pit terminated at 3.20m depth.		

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Plan (Not to Scale) 	General Remarks		
	1. Location GPR and UXO cleared. 2. No groundwater encountered. 3. Easy to excavate with JCB 3CX. 4. Trial pit faces remained stable during excavation. 5. Trial pit backfilled with arisings and compacted in layers.		
All dimensions in metres		Scale:	1:25
Method Used: Machine dug	Plant Used: JCB-3CX	Logged By: SHaynes	Checked By:



Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Trial Pit: BP8
Contract Ref: 763468	Start: 14.07.15 End: 14.07.15	Ground Level (m): 14.46	National Grid Co-ordinate: E:646055.4 N:265236.3	Sheet: 2 of 2

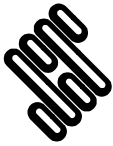
TP BP8 - 3.20m



TP BP8 - SPOIL

GINTE LIBRARY v8.05.GLB.LibVersion: v8.05 - Lib0004 ProjVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log TRIAL PIT LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 15:05 | SH. Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Method Used: Machine dug	Plant Used: JCB-3CX	Logged By: SHaynes	Checked By:	
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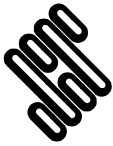


Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Trial Pit: WMZ18	
Contract Ref: 763468		Start: 15.07.15 End: 15.07.15	Ground Level (m): 10.88	National Grid Co-ordinate: E:645639.6 N:265638.0	Sheet: 1 of 2

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.50	1	B				TOPSOIL: Grey slightly clayey slightly gravelly fine to medium SAND. Gravel is subrounded to subangular medium to coarse of flint, quartzite and sandstone.	(0.50)	
						Brown locally black slightly clayey medium to coarse SAND with medium cobble content. Cobbles are subangular to subrounded sandstone with heavy iron staining.	(1.00)	
1.50	2	B				Yellow slightly clayey to clayey thinly laminated fine to medium SAND.	1.50	
2.50	3	B					(2.00)	
3.00	4	B					3.50	
Trial pit terminated at 3.50m depth.								

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Plan (Not to Scale) 		General Remarks 1. Location GPR and UXO cleared. 2. Soakaway test performed at 3.50m. 3. Easy to excavate with JCB 3CX. 4. Trial pit faces remained stable during excavation and collapsed during soakway test. 5. Trial pit backfilled with arisings and compacted in layers.	
All dimensions in metres		Scale: 1:25	
Method Used: Machine dug	Plant Used: JCB-3CX	Logged By: SHaynes	Checked By:



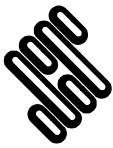
Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Trial Pit: WMZ18
Contract Ref: 763468	Start: 15.07.15 End: 15.07.15	Ground Level (m): 10.88	National Grid Co-ordinate: E:645639.6 N:265638.0	Sheet: 2 of 2

TP WMZ18 - 3.50m



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Method Used: Machine dug	Plant Used: JCB-3CX	Logged By: SHaynes	Checked By:	
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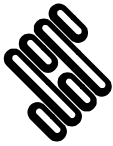


Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Trial Pit: WMZ19	
Contract Ref: 763468		Start: 16.07.15 End: 16.07.15	Ground Level (m): 12.22	National Grid Co-ordinate: E:645240.9 N:263713.4	
				Sheet: 1 of 2	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.70	1	B				TOPSOIL: Brown slightly clayey gravelly medium to coarse SAND. Gravel is angular to rounded fine to coarse of flint, quartzite and chalk.	(0.55)	
						Orange and yellow locally brown slightly clayey slightly gravelly fine to medium SAND. Gravel is subangular to rounded fine to medium of flint and quartzite.	(0.65)	
1.50	2	B				Yellow clayey slightly gravelly medium to coarse SAND. Gravel is rounded to subangular fine to coarse of flint and quartzite.	(0.80)	
2.00	3	B				... below 1.90m, gravels of flat tubular iron coated sandstone and mudstone.	2.00	
2.50	4	B				Yellow medium to coarse SAND and GRAVEL with medium cobble content. Gravel is angular to subangular medium to coarse of flint and quartzite. Cobbles are subangular to subrounded flint.	(0.40)	
						Yellow slightly clayey slightly gravelly fine to medium SAND. Gravel is rounded to subangular medium to coarse of flint and quartzite.	2.40	
3.00	5	B				... 3.10m-3.50m, partial collapse of lower faces.	(1.10)	
						Trial pit terminated at 3.50m depth.	3.50	

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Plan (Not to Scale) 		General Remarks 1. Location GPR and UXO cleared. 2. Soakaway test performed at 3.50m. 3. Easy to excavate with JCB 3CX. 4. Trial pit faces unstable during excavation and soakaway test. 5. Trial pit backfilled with arisings and compacted in layers.	
Method Used: Machine dug		Plant Used: JCB-3CX	
All dimensions in metres		Scale: 1:25	
Logged By: SHaynes		Checked By: AGS	



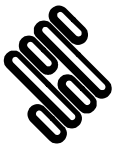
Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Trial Pit: WMZ19
Contract Ref: 763468	Start: 16.07.15 End: 16.07.15	Ground Level (m): 12.22	National Grid Co-ordinate: E:645240.9 N:263713.4	Sheet: 2 of 2

TP WMZ19 - 3.50m



GINT LIBRARY v8.05.GLB.LibVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log TRIAL PIT LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 15:05 | SH.
 Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Method Used: Machine dug	Plant Used: JCB-3CX	Logged By: SHaynes	Checked By:	
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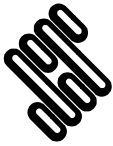


Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Trial Pit: WMZ20	
Contract Ref: 763468		Start: 15.07.15 End: 15.07.15	Ground Level (m): 2.29	National Grid Co-ordinate: E:647095.4 N:264944.3	
				Sheet: 1 of 2	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.70	1	B			TOPSOIL: Light brown slightly clayey gravelly fine to medium SAND. Gravel is rounded to subangular medium to coarse of flint and quartzite.	(0.70)		
1.20	2	B			Orange clayey fine to medium SAND. ... at 1.10m, soakaway test undertaken.	(0.50) 1.20		
2.10	3	B			Firm orange thinly to thickly laminated slightly silty slightly sandy CLAY. Laminations are brown and grey clay. ... at 2.20m, slightly moderate groundwater seepage.	(0.90) 2.10		
					Orange yellow and grey clayey fine to medium SAND with occasional pockets of clay and nodules of mudstone. Trial pit terminated at 2.30m depth.	2.30		

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Plan (Not to Scale) 		General Remarks 1. Location GPR and UXO cleared. 2. Soakaway test performed at 1.10m. 3. Trial pit continued after soakaway test. 4. Slightly moderate groundwater seepage encountered at 2.20m. 5. Easy to excavate with JCB 3CX. 6. Trial pit remained stable during excavation. 7. Trial pit backfilled with arisings and compacted in layers.	
Method Used: Machine dug		Plant Used: JCB-3CX	
All dimensions in metres		Scale: 1:25	
Logged By: SHaynes		Checked By:	



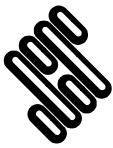
Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Trial Pit: WMZ20
Contract Ref: 763468	Start: 15.07.15 End: 15.07.15	Ground Level (m): 2.29	National Grid Co-ordinate: E:647095.4 N:264944.3	Sheet: 2 of 2

TP WMZ20 - 1.10M



GINT LIBRARY v8.05.GLB.LibVersion: v8.05 - Lib0004 ProjVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log TRIAL PIT LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 15:05 | SH. Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Method Used: Machine dug	Plant Used: JCB-3CX	Logged By: SHaynes	Checked By:	
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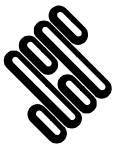


Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP3
Contract Ref: 763468	Start: 10.09.15 End: 17.09.15	Ground Level (m): 12.39	National Grid Co-ordinate: E:645574.5 N:265404.7	Sheet: 1 of 23

Depth (m)	Samples & Testing			Mechanical Log				Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend	
	No	Type	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)						
										Dark brown silty SAND. Sand is fine to medium.	(1.50)		
				1.20-1.50m Sonic run							1.50		
				1.50-3.00m Sonic run									
				3.00-4.50m Sonic run							Light brown occasionally grey silty SAND with rare medium sand sized pockets of grey clay. Sand is fine to coarse. ... 1.97m-2.10m, dark brown. ... 2.90m-3.00m, very stiff brown slightly sandy clay. ... below 3.40m, light grey slightly gravelly. Gravel is subrounded fine to medium quartzite and flint.	(3.00)	
				4.50-6.00m Sonic run								4.50	
				6.00-7.50m Sonic run									
				7.50-9.00m Sonic run							Orangish brown silty slightly gravelly SAND. Sand is fine to coarse. Gravel is subrounded fine to medium quartzite and flint. ... below 5.50m, sand is fine to medium. ... at 7.70m, pocket of grey slightly sandy clay. ... 8.75m-8.85m, grey clay.	(6.28)	

GINT LIBRARY v8.05 - Lib0004 ProjVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log SONIC DRILLING LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 14:38 | SH. Structural Soils Ltd, Branch Office - Castleford, The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Boring Progress and Water Observations						General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth		
11/09/15	11:00	9.00	9.00	114	-	1. Hand dug inspection pit to 1.20m. 2. 114.30mm diameter rotary-vibratory core barrell used in conjunction with semi-rigid U86 plastic liner. 3. Water added to aid drilling process. 4. Installed with 50mm standpipe piezometer on completion. Response Zone between 35.50 and 45.50m depth.	
11/09/15	12:45	15.00	15.00	114	11.00		
14/09/15	13:00	15.00	15.00	114	11.10		
14/09/15	14:15	16.50	16.50	114	8.10		
15/09/15	08:45	16.50	16.50	114	8.14		
15/09/15	18:15	31.50	31.50	114	0.00		
16/09/15	08:30	31.50	31.50	114	8.60		
16/09/15	08:30	31.50	31.50	114	8.60		
16/09/15	17:45	51.00	51.00	114	6.10		
All dimensions in metres						Scale:	1:50
Method Used: Sonic Drilling		Plant Used: Boart Longyear DB320 Sonic		Drilled By: DR		Logged By: AJones	
						Checked By: CMH	



Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP3
Contract Ref: 763468	Start: 10.09.15 End: 17.09.15	Ground Level (m): 12.39	National Grid Co-ordinate: E:645574.5 N:265404.7	Sheet: 2 of 23

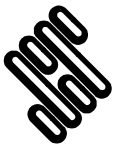
Depth (m)	Samples & Testing			Mechanical Log				Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
	No	Type	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)					
										Orangish brown silty slightly gravelly SAND. Sand is fine to coarse. Gravel is subrounded fine to medium quartzite and flint. <i>(stratum copied from 4.50m from previous sheet)</i> ... below 9.00m, fine to coarse.		
										... 10.60m-10.78m, brown sandy clay. Sand is fine to coarse.	10.78	
										Brown silty clayey SAND. Sand is fine to coarse.		
										... 11.44m-11.50m, brown clay. ... 11.62m-11.80m, very thinly bedded. ... 11.86m-11.95m, brown clay with some mudstone gravel.	(2.62)	
										... 12.00m-12.47m, AZCL. ... 12.47m-13.40m, thinly bedded orangish brown and light grey.	13.40	
										Orangish brown silty SAND with frequent coarse sand sized shell fragments. Sand is fine to coarse.		
										... at 14.20m, 2no. subangular coarse mudstone gravels.		
										... at 14.85m, 1no. subangular mudstone gravel.	(3.36)	
										... 16.55m-16.76m, brown fine sand with much silt and occasional subangular medium mudstone gravels.	16.76	
										Brown, dark brown and orangish brown thinly laminated silty SAND. Sand is fine to coarse. ... at 17.34m, occasional coarse sand sized shell fragments.	(1.29)	

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Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth
17/09/15	08:30	51.00	51.00	114	8.14

General Remarks	
All dimensions in metres	
Scale:	1:50

Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: CSM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP3
Contract Ref: 763468	Start: 10.09.15 End: 17.09.15	Ground Level (m): 12.39	National Grid Co-ordinate: E:645574.5 N:265404.7	Sheet: 3 of 23

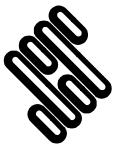
Depth (m)	Samples & Testing			Mechanical Log				Backfill & Instrumentation	Water	Description of Strata	Depth (Thick-ness)	Material Graphic Legend
	No	Type	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)					
										Light orangish brown silty SAND. Sand is fine to medium.	18.05	
										18.00-19.50m Sonic run		
										19.50-21.00m Sonic run	(4.95)	
										... 20.70m-21.00m, with brown staining.		
										21.00-22.50m Sonic run		
										22.50-24.00m Sonic run	23.00	
										Brown, orangish brown and light grey thinly laminated silty SAND. Sand is fine to medium.		
										... below 24.24m, frequent coarse sand sized shell fragments.	(2.34)	
										24.00-25.50m Sonic run		
										25.50-27.00m Sonic run	25.34	
										Reddish brown silty SAND. Sand is fine to medium.	(1.76)	

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Boring Progress and Water Observations						General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	

All dimensions in metres Scale: **1:50**

Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: CMH	
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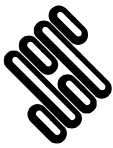


Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP3
Contract Ref: 763468	Start: 10.09.15 End: 17.09.15	Ground Level (m): 12.39	National Grid Co-ordinate: E:645574.5 N:265404.7	Sheet: 4 of 23

Depth (m)	Samples & Testing			Mechanical Log				Backfill & Instrumentation	Water	Description of Strata	Depth (Thick)	Material Graphic Legend
	No	Type	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)					
27.00-28.50m										Grey to dark grey silty SAND with frequent coarse sand sized shell fragments. Sand is fine to coarse. ... 27.30m-27.40m, clayey.	27.10	
28.50-30.00m												
30.00-31.50m												
31.50-33.00m										... 31.50m-32.30m, high shell content.		
33.00-34.50m												
34.50-36.00m										... 34.50m-35.80m, light grey.		

GINT LIBRARY v8.05.GLB LibVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log SONIC DRILLING LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 14:38 | SH. Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Boring Progress and Water Observations						General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	
Method Used: Sonic Drilling Plant Used: Boart Longyear DB320 Sonic						All dimensions in metres Scale: 1:50
Drilled By: DR		Logged By: AJones		Checked By: CMH		

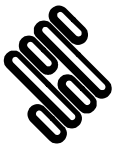


Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP3
Contract Ref: 763468	Start: 10.09.15 End: 17.09.15	Ground Level (m): 12.39	National Grid Co-ordinate: E:645574.5 N:265404.7	Sheet: 6 of 23

Depth (m)	Samples & Testing			Mechanical Log				Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
	No	Type	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)					
											45.13	
										Stiff dark grey silty CLAY. ... below 45.45m, brown.		
										45.00-46.50m Sonic run		
										46.50-48.00m Sonic run		
										... 47.10m-47.23m, 47.64m-47.70m, grey with subangular coarse gravels of mudstone.	(5.87)	
										48.00-49.50m Sonic run		
										... 49.58m-49.90m, non intact, very wet clay band.		
										49.50-51.00m Sonic run		
										... 50.24m-50.55m, grey with subangular fine to coarse mudstone gravels. ... at 50.60m, 1no. subangular coarse mudstone gravel.	51.00	
										Borehole terminated at 51.00m depth.		

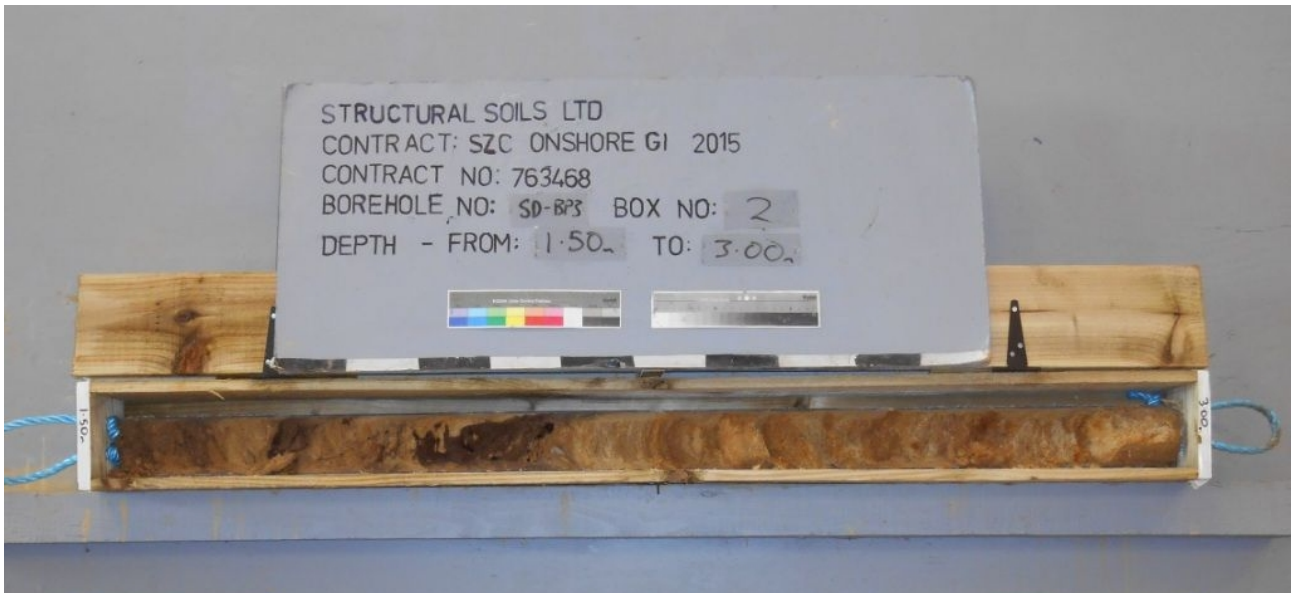
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Boring Progress and Water Observations						General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	
All dimensions in metres						Scale: 1:50
Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR		Logged By: AJones	Checked By: COM	



Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP3
Contract Ref: 763468	Start: 10.09.15 End: 17.09.15	Ground Level (m): 12.39	National Grid Co-ordinate: E:645574.5 N:265404.7	Sheet: 7 of 23

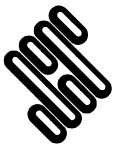
Core Box 1



Core Box 2

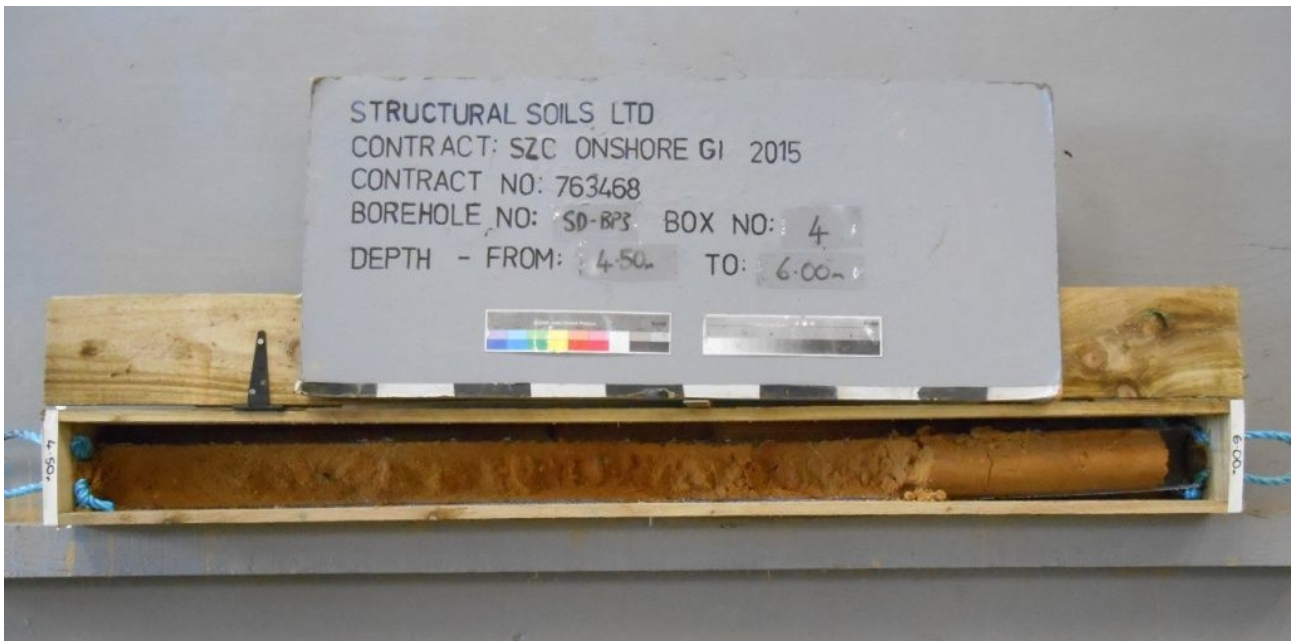
GINT LIBRARY v8.05.GI.B LibVersion: v8.05 - Lib0004 ProjVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log SONIC DRILLING LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 14:38 | SH. Structural Soils Ltd, Branch Office - Castleford - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP3
Contract Ref: 763468	Start: 10.09.15 End: 17.09.15	Ground Lev. (m): 12.39	National Grid Co-ordinate: E:645574.5 N:265404.7	Sheet: 8 of 23

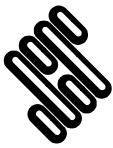
Core Box 3



Core Box 4

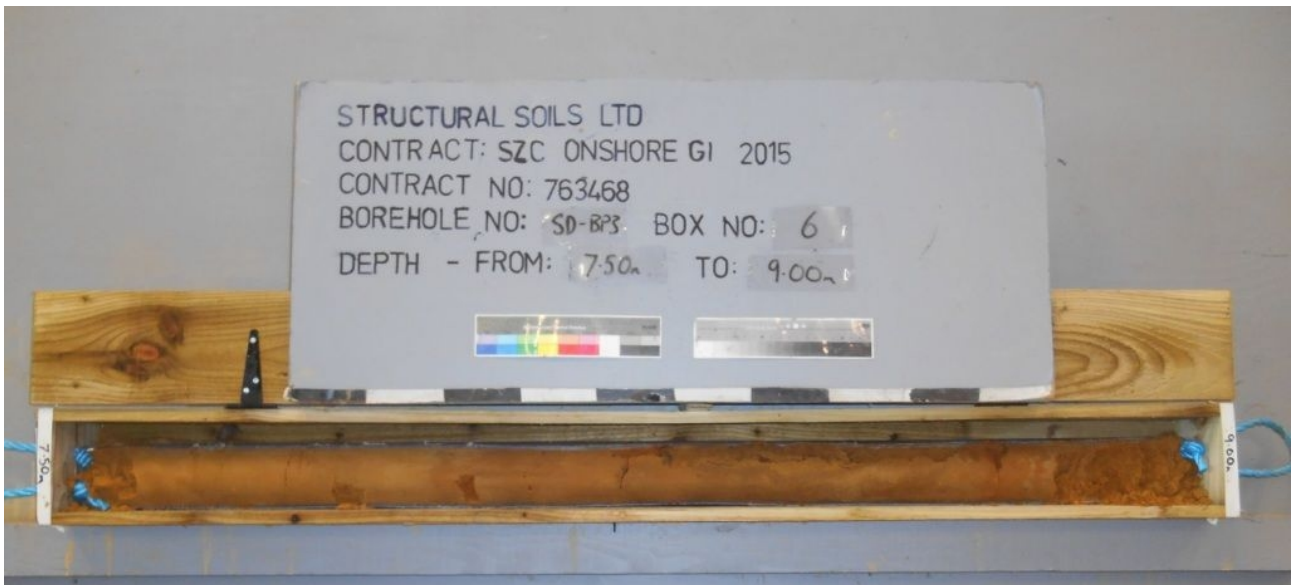
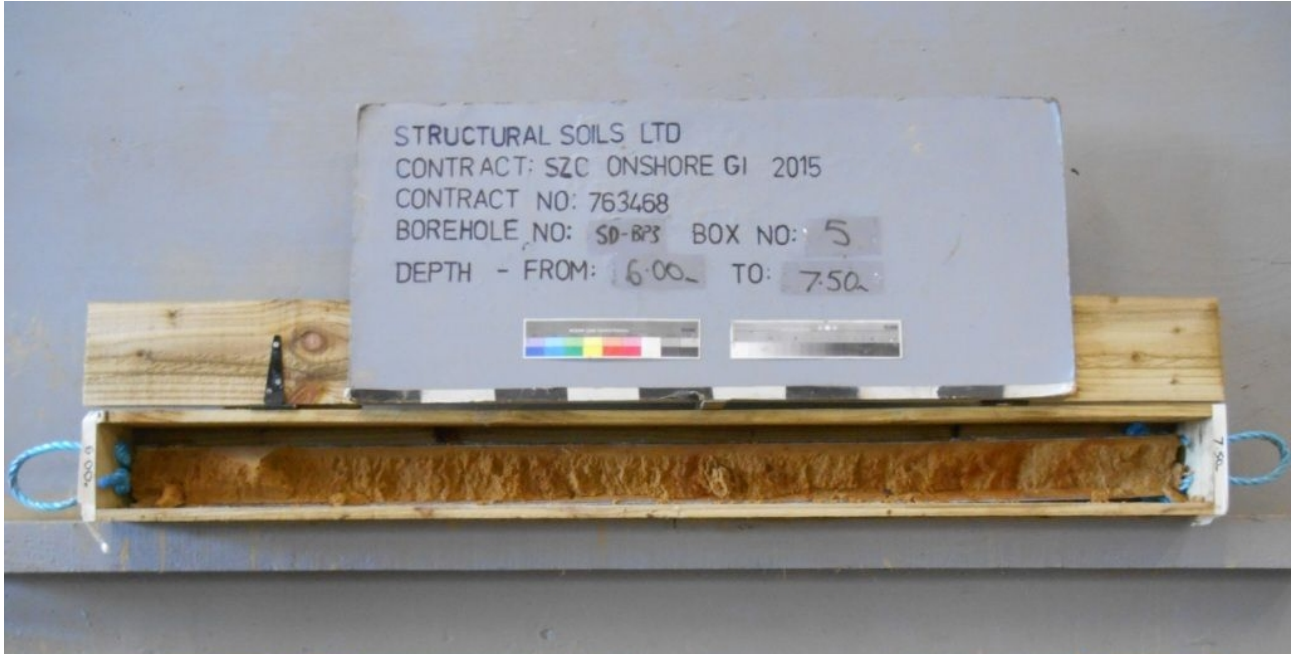
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Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP3
Contract Ref: 763468	Start: 10.09.15 End: 17.09.15	Ground Level (m): 12.39	National Grid Co-ordinate: E:645574.5 N:265404.7	Sheet: 9 of 23

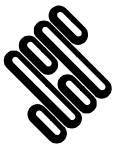
Core Box 5



Core Box 6

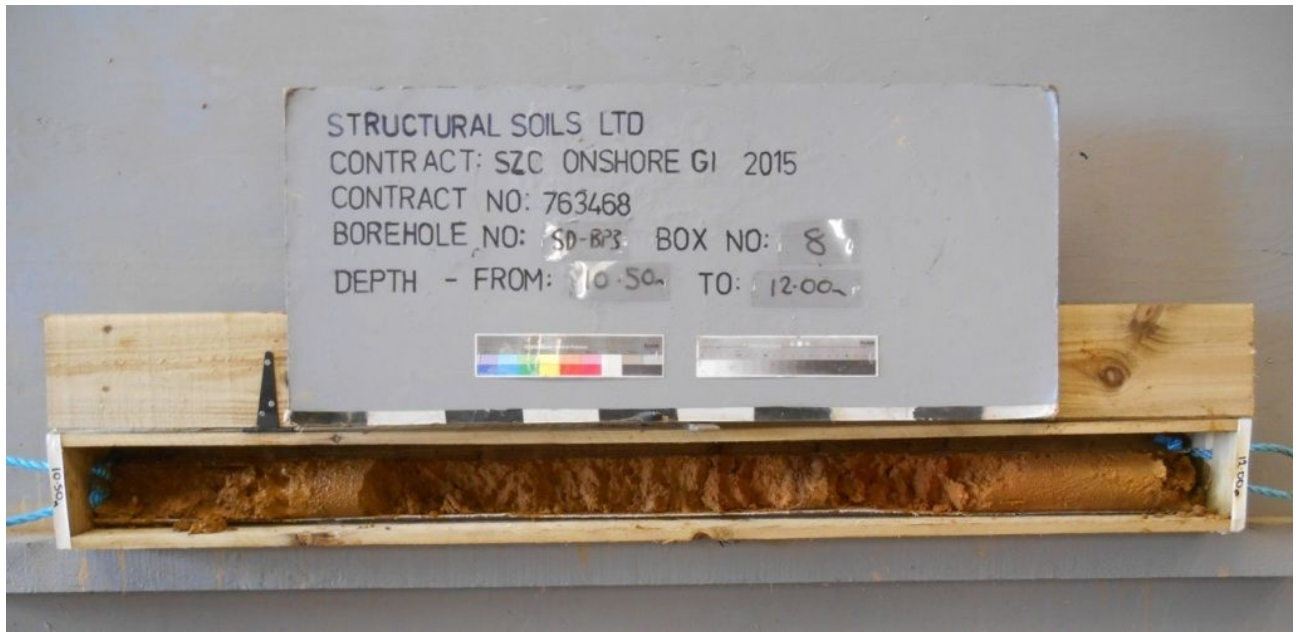
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Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP3
Contract Ref: 763468	Start: 10.09.15 End: 17.09.15	Ground Level (m): 12.39	National Grid Co-ordinate: E:645574.5 N:265404.7	Sheet: 10 of 23

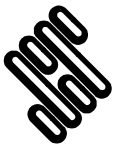
Core Box 7



Core Box 8

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Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP3
Contract Ref: 763468	Start: 10.09.15 End: 17.09.15	Ground Level (m): 12.39	National Grid Co-ordinate: E:645574.5 N:265404.7	Sheet: 11 of 23

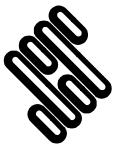
Core Box 9



Core Box 10

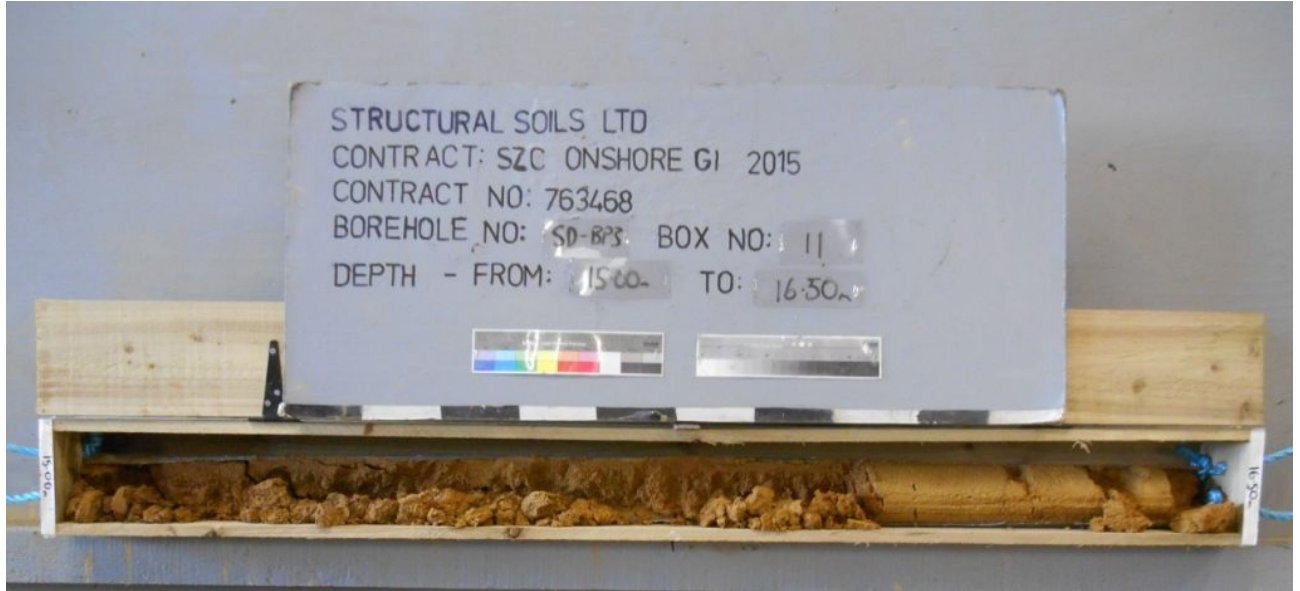
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Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP3
Contract Ref: 763468	Start: 10.09.15 End: 17.09.15	Ground Level (m): 12.39	National Grid Co-ordinate: E:645574.5 N:265404.7	Sheet: 12 of 23

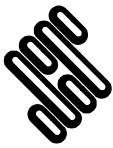
Core Box 11



Core Box 12

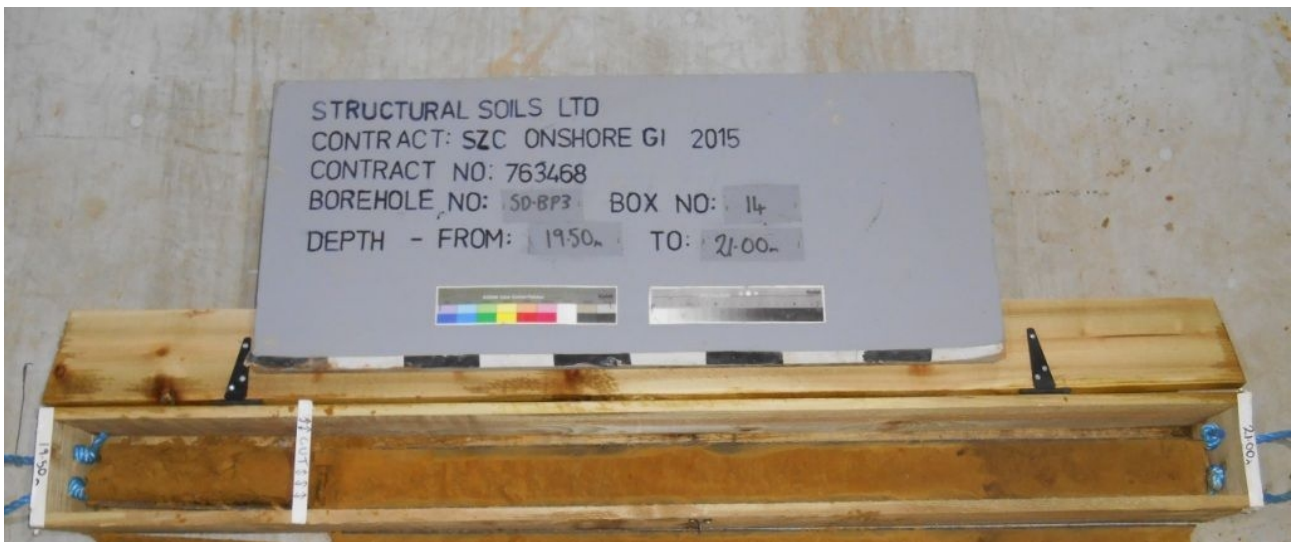
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Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP3
Contract Ref: 763468	Start: 10.09.15 End: 17.09.15	Ground Level (m): 12.39	National Grid Co-ordinate: E:645574.5 N:265404.7	Sheet: 13 of 23

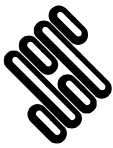
Core Box 13



Core Box 14

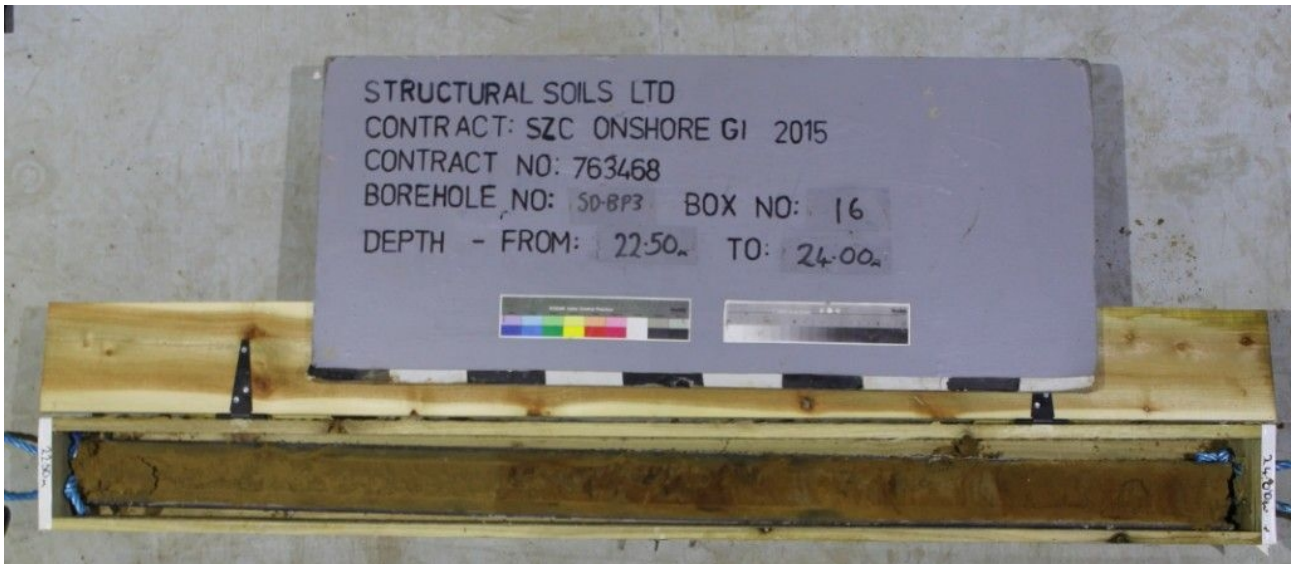
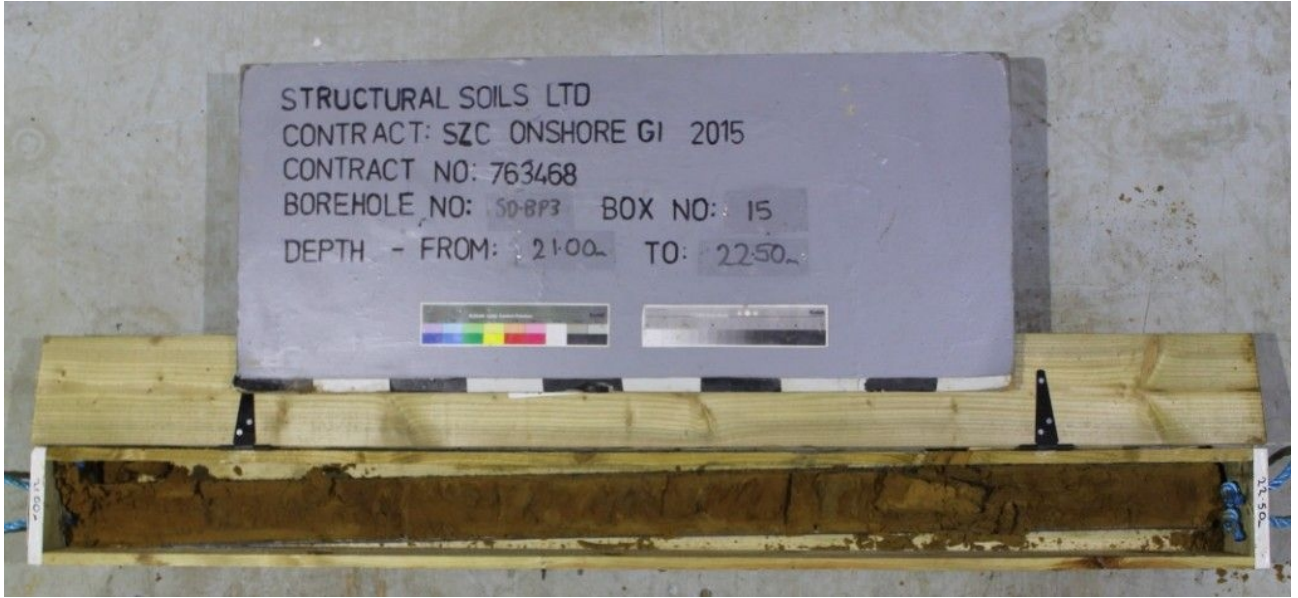
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Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP3
Contract Ref: 763468	Start: 10.09.15 End: 17.09.15	Ground Level (m): 12.39	National Grid Co-ordinate: E:645574.5 N:265404.7	Sheet: 14 of 23

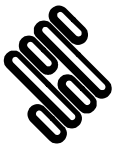
Core Box 15



Core Box 16

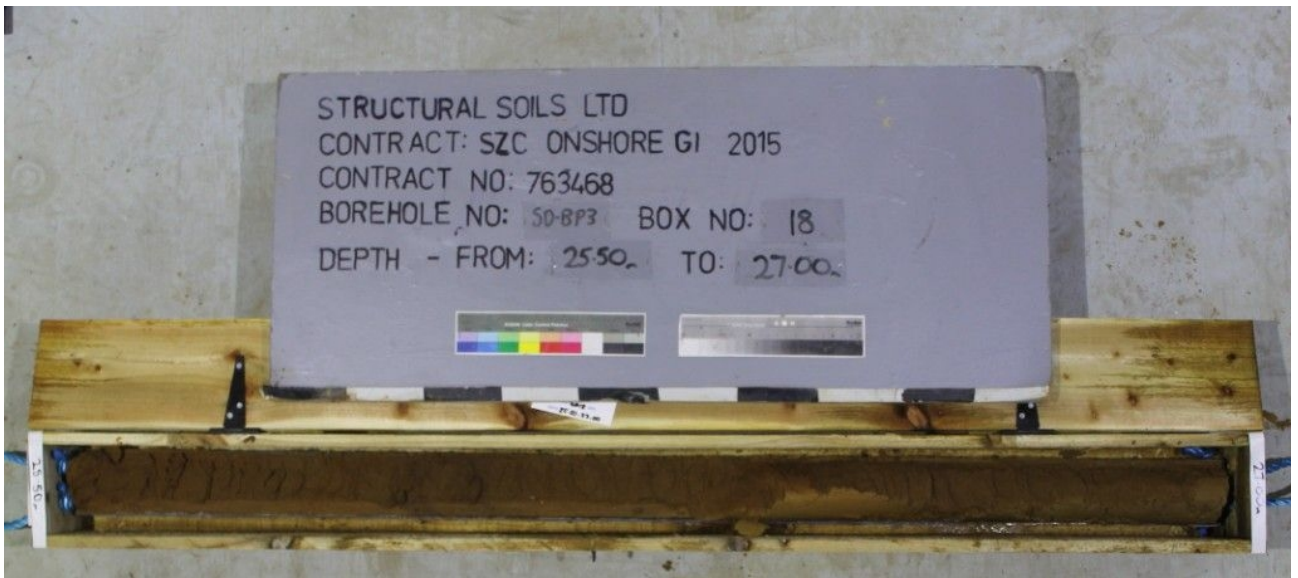
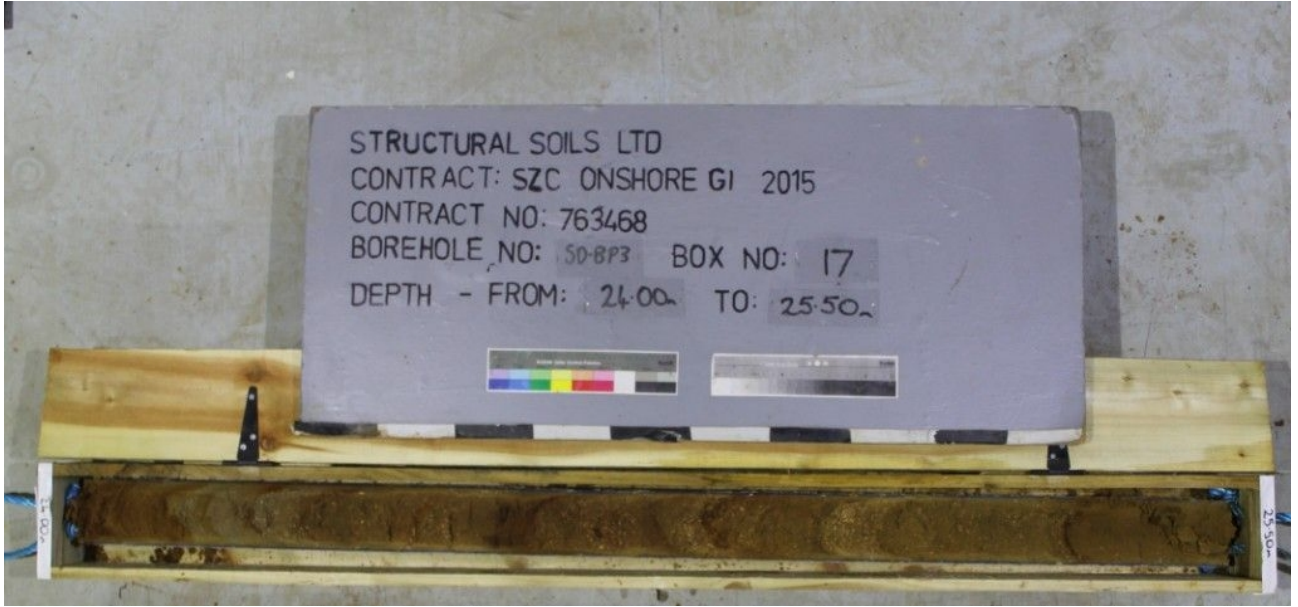
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Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP3
Contract Ref: 763468	Start: 10.09.15 End: 17.09.15	Ground Level (m): 12.39	National Grid Co-ordinate: E:645574.5 N:265404.7	Sheet: 15 of 23

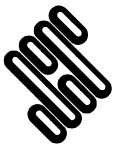
Core Box 17



Core Box 18

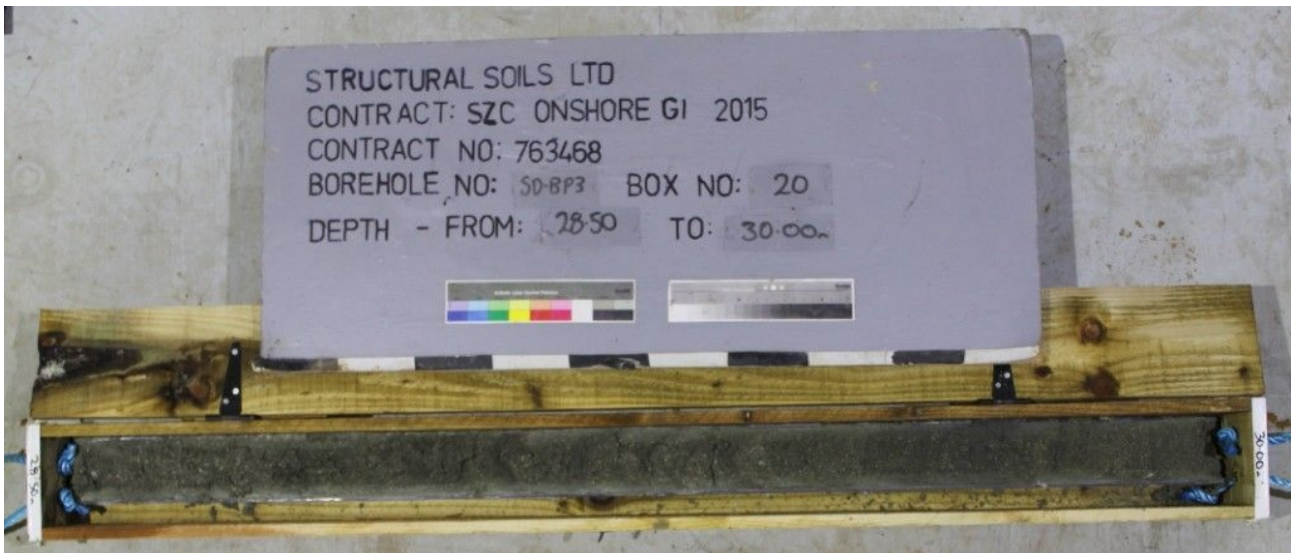
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Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP3
Contract Ref: 763468	Start: 10.09.15 End: 17.09.15	Ground Level (m): 12.39	National Grid Co-ordinate: E:645574.5 N:265404.7	Sheet: 16 of 23

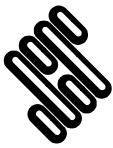
Core Box 19



Core Box 20

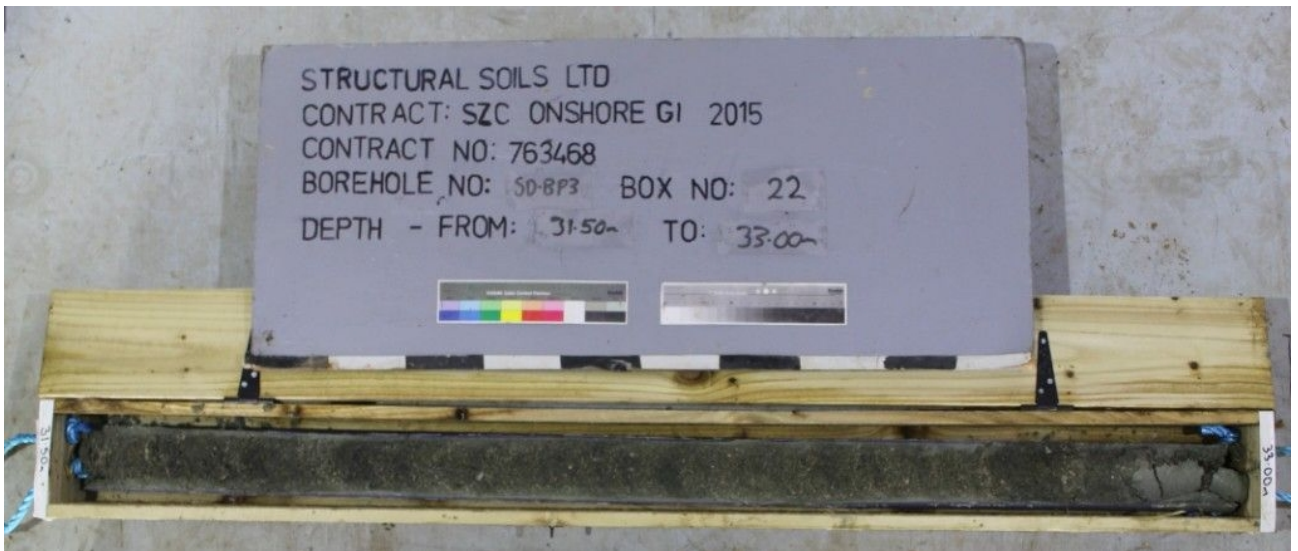
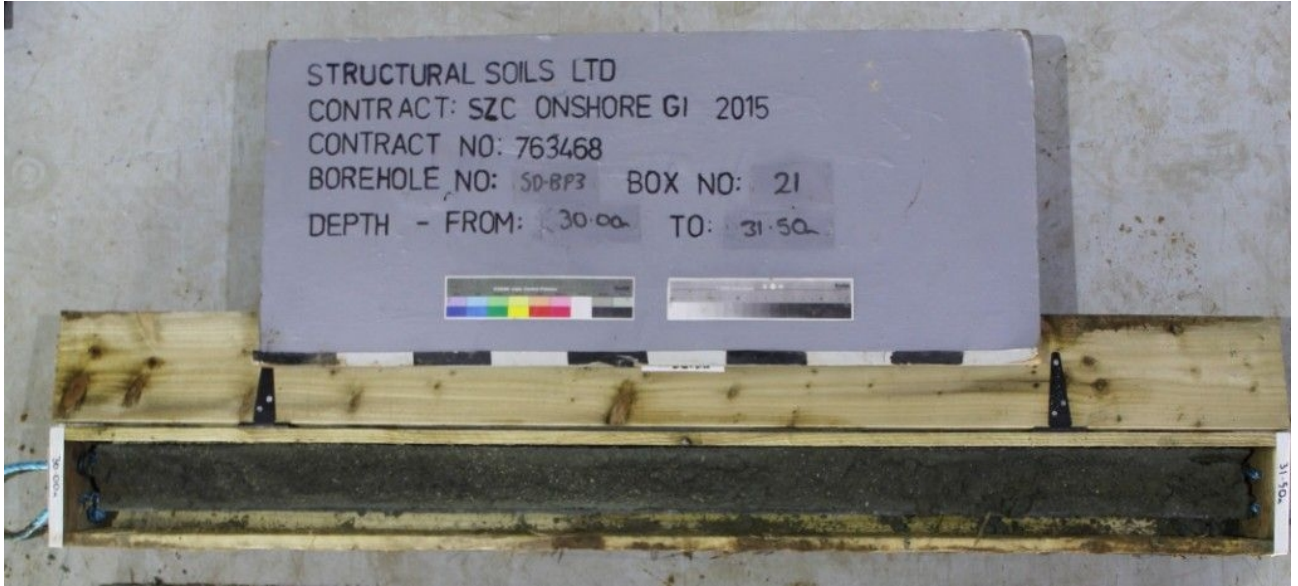
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Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP3
Contract Ref: 763468	Start: 10.09.15 End: 17.09.15	Ground Level (m): 12.39	National Grid Co-ordinate: E:645574.5 N:265404.7	Sheet: 17 of 23

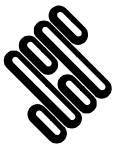
Core Box 21



Core Box 22

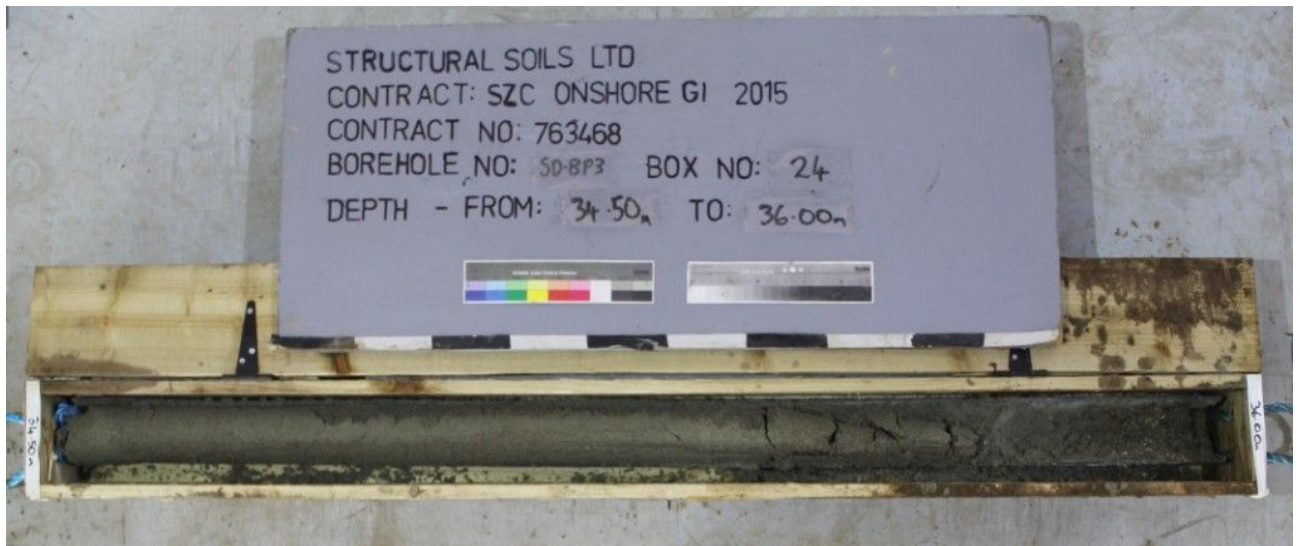
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Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP3
Contract Ref: 763468	Start: 10.09.15 End: 17.09.15	Ground Level (m): 12.39	National Grid Co-ordinate: E:645574.5 N:265404.7	Sheet: 18 of 23

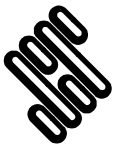
Core Box 23



Core Box 24

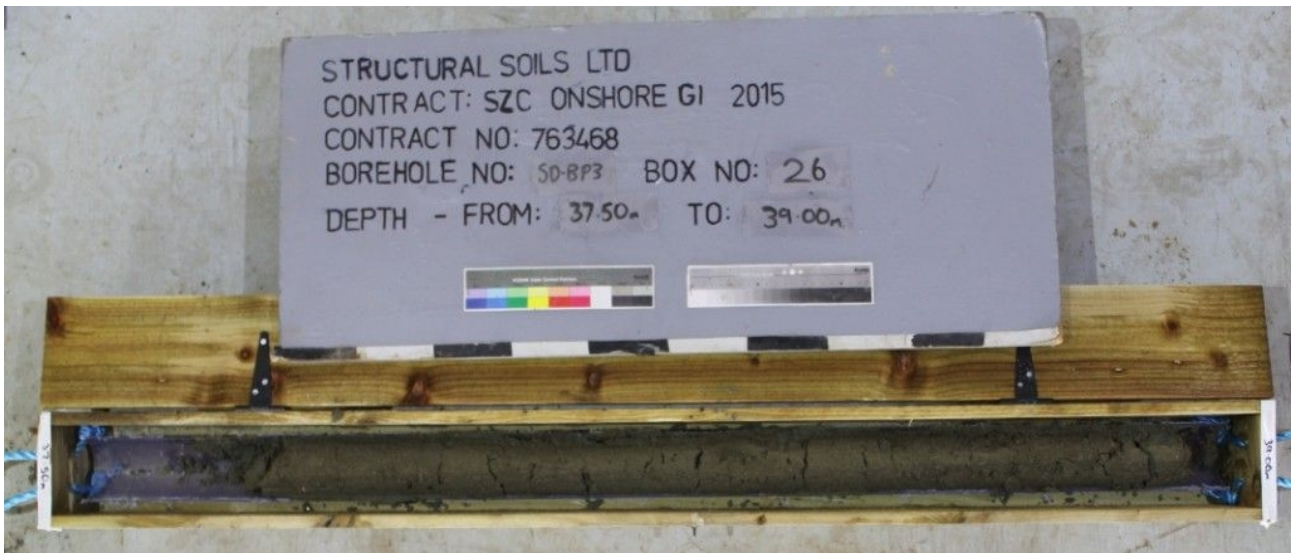
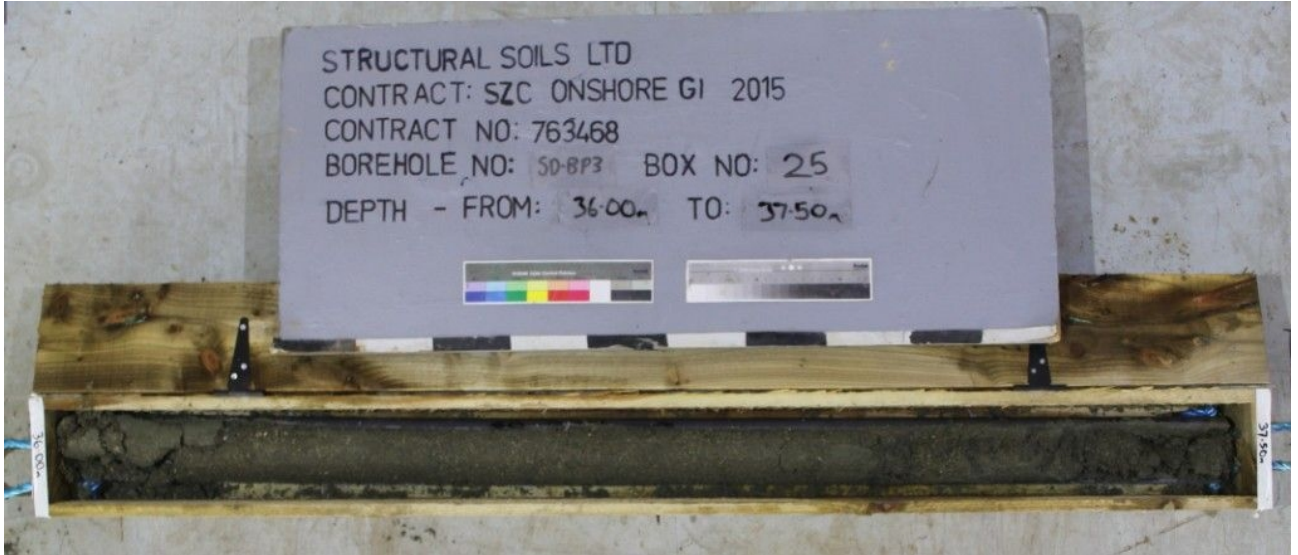
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Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP3
Contract Ref: 763468	Start: 10.09.15 End: 17.09.15	Ground Level (m): 12.39	National Grid Co-ordinate: E:645574.5 N:265404.7	Sheet: 19 of 23

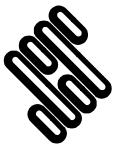
Core Box 25



Core Box 26

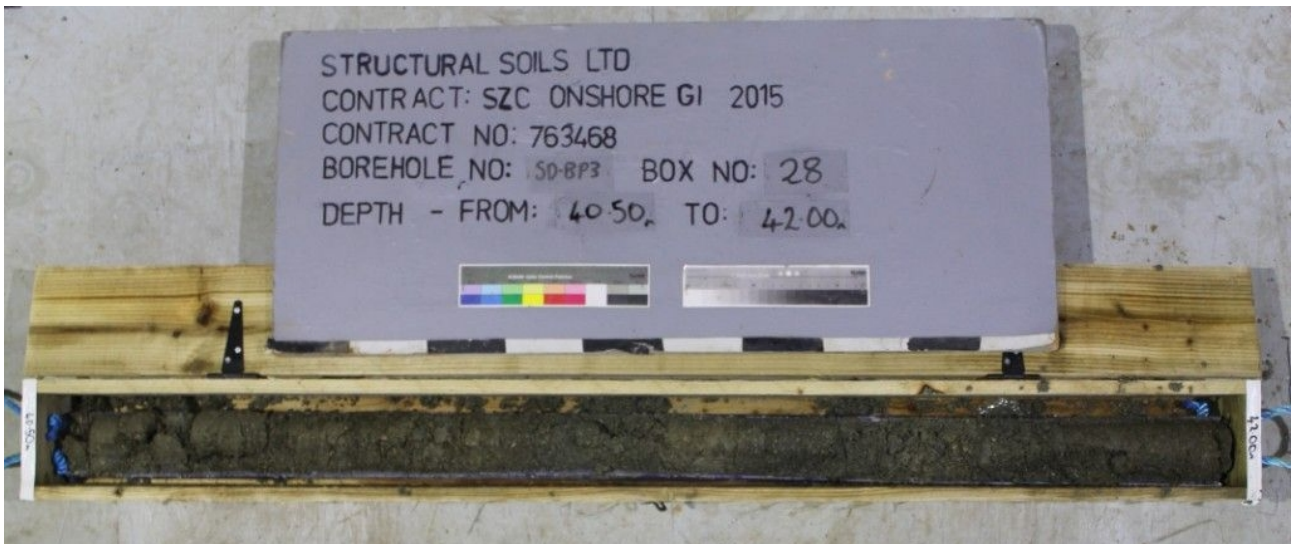
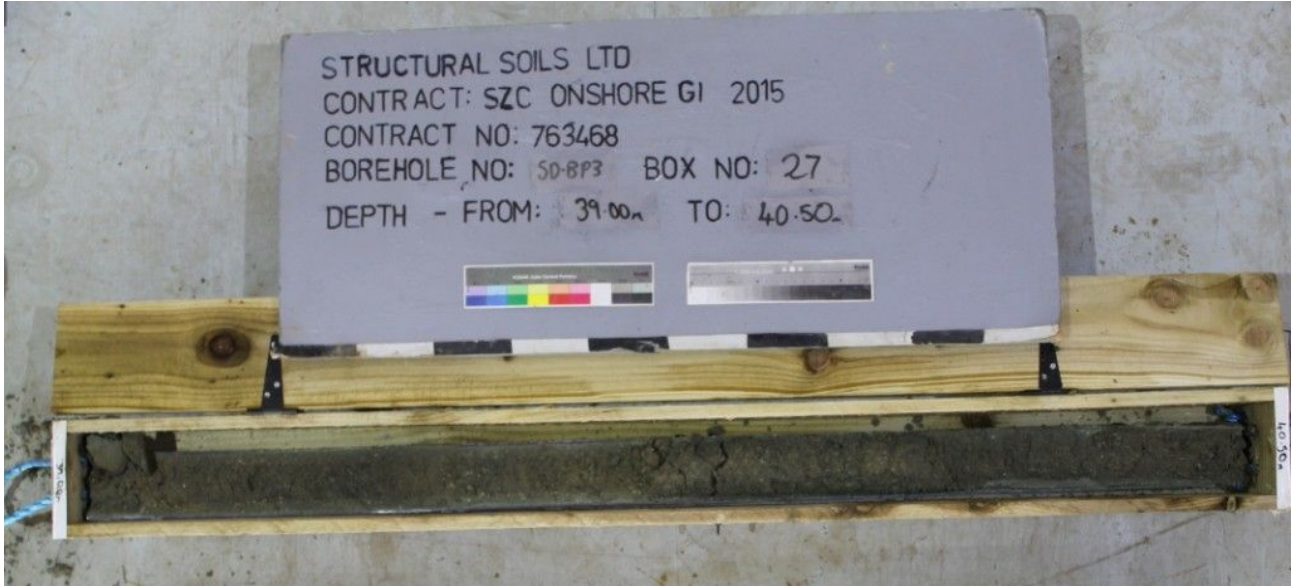
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Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP3
Contract Ref: 763468	Start: 10.09.15 End: 17.09.15	Ground Level (m): 12.39	National Grid Co-ordinate: E:645574.5 N:265404.7	Sheet: 20 of 23

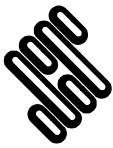
Core Box 27



Core Box 28

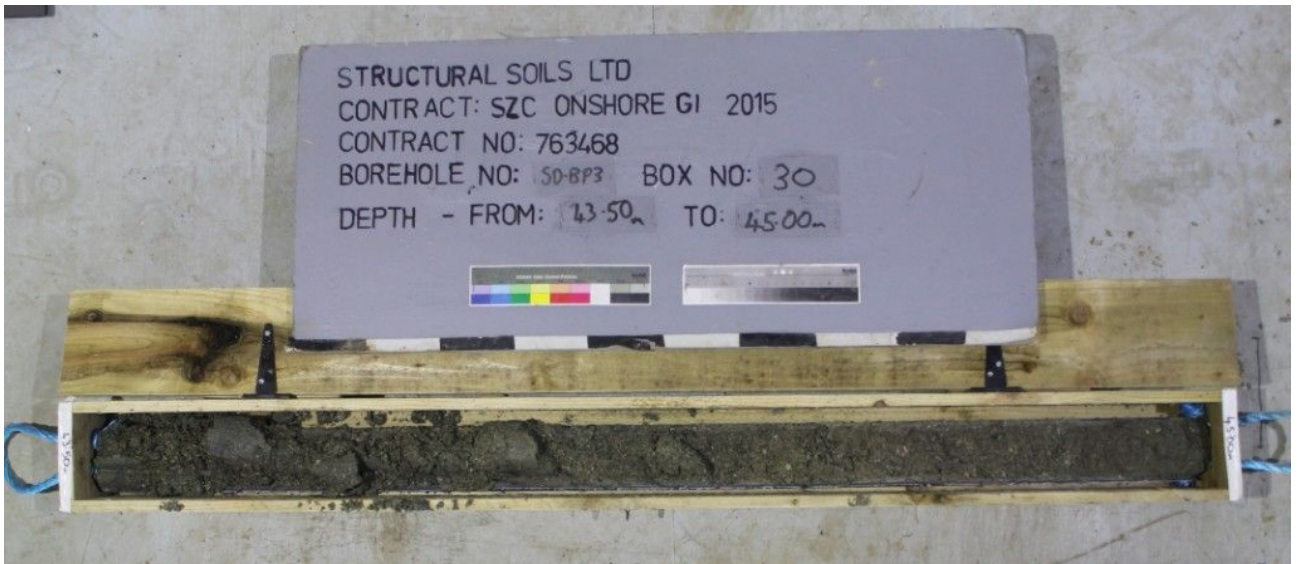
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Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP3
Contract Ref: 763468	Start: 10.09.15 End: 17.09.15	Ground Level (m): 12.39	National Grid Co-ordinate: E:645574.5 N:265404.7	Sheet: 21 of 23

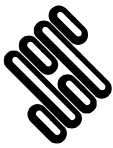
Core Box 29



Core Box 30

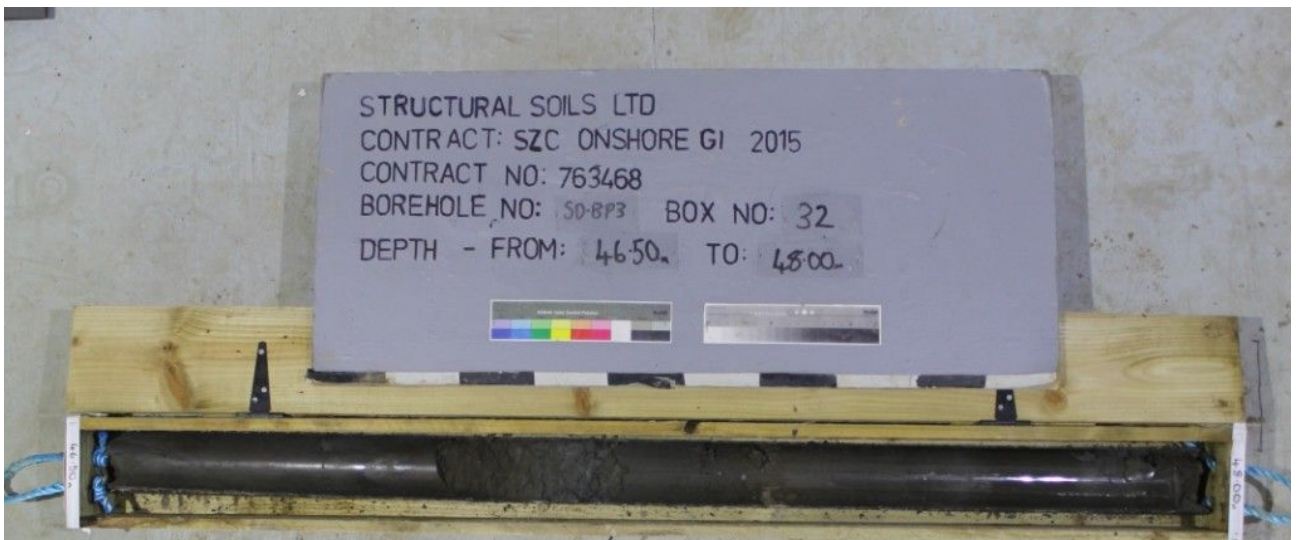
GINT LIBRARY v8.05.GI.B LibVersion: v8.05 - Lib0004 ProjVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log SONIC DRILLING LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 14:39 | SH. Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP3
Contract Ref: 763468	Start: 10.09.15 End: 17.09.15	Ground Level (m): 12.39	National Grid Co-ordinate: E:645574.5 N:265404.7	Sheet: 22 of 23

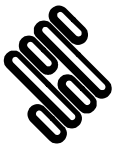
Core Box 31



Core Box 32

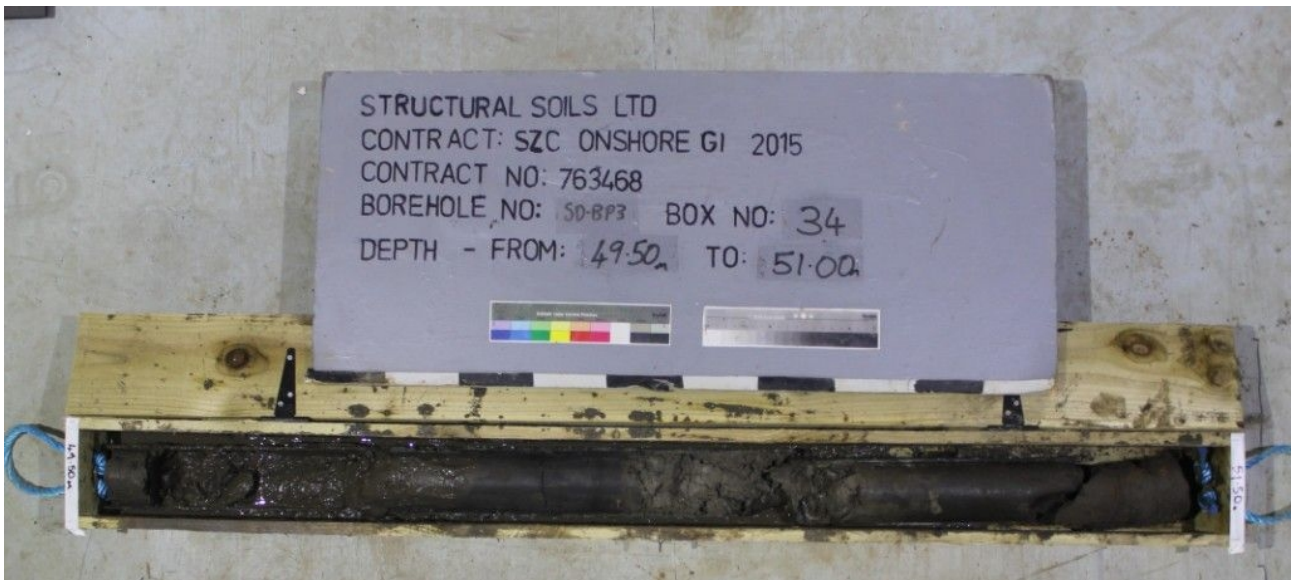
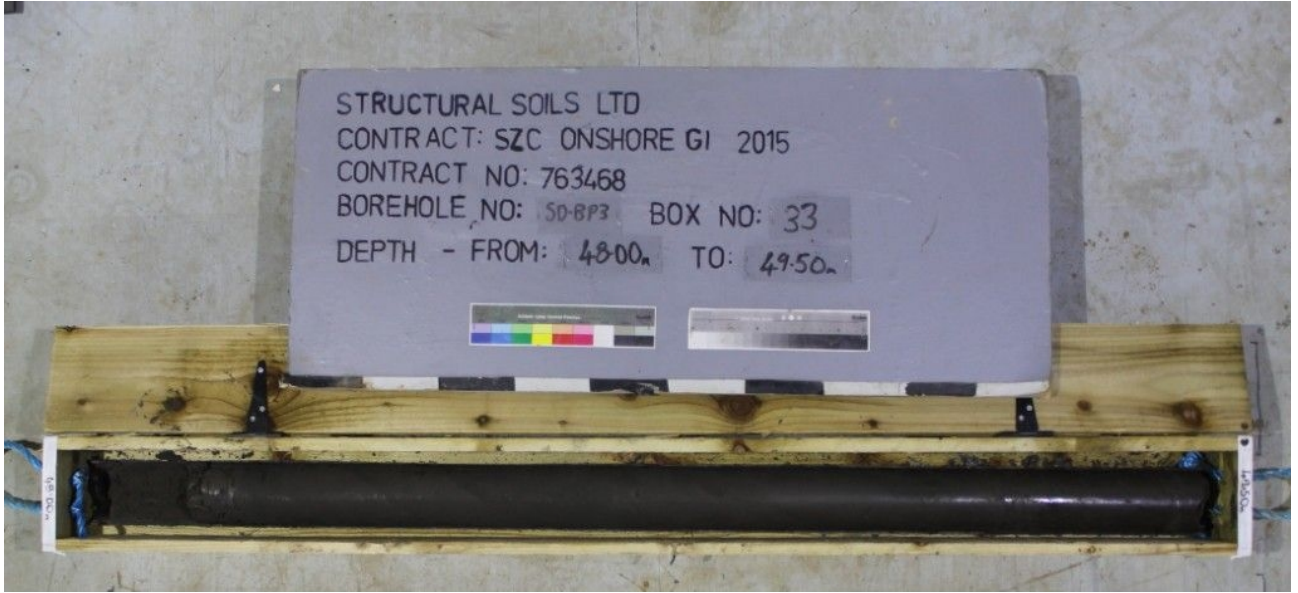
GINT LIBRARY v8.05.GI.B LibVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log SONIC DRILLING LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 14:39 | SH. Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP3
Contract Ref: 763468	Start: 10.09.15 End: 17.09.15	Ground Level (m): 12.39	National Grid Co-ordinate: E:645574.5 N:265404.7	Sheet: 23 of 23

Core Box 33



Core Box 34

GINT LIBRARY v8.05.GI.B LibVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log SONIC DRILLING LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 14:39 | SH. Structural Soils Ltd, Branch Office - Castleford - The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP5	
Contract Ref: 763468	Start: 17.09.15 End: 21.09.15	Ground Level (m): 14.14	National Grid Co-ordinate: E:645928.7 N:265295.9	Sheet: 1 of 12	

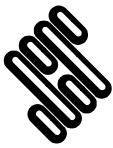
Depth (m)	Samples & Testing			Mechanical Log				Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
	No	Type	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)					
0.50	1	B								Light brown/buff silty SAND. Sand is fine to medium.		
1.00	2	B								... 2.00m-2.10m, reddish brown slightly clayey.	(3.64)	
										1.20-1.50m Sonic run		
										1.50-3.00m Sonic run		
										3.00-4.50m Sonic run		
										4.50-6.00m Sonic run		
										6.00-7.50m Sonic run		
										7.50-9.00m Sonic run		
										Buff silty slightly gravelly SAND. Sand is fine to coarse. Gravel is subrounded fine to coarse flint and quartzite.	(0.86)	
										Brown reddish brown silty SAND with thin laminations. Sand is fine to medium.	(1.90)	
										Brown mottled grey silty sandy CLAY. Sand is fine to medium.	6.80	
										Buff silty fine SAND interbedded with orangish brown silty fine to medium sand. Bedding is medium spaced.	(3.70)	

GINT LIBRARY v8.05 - Lib0004 ProjVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log SONIC DRILLING LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 14:40 | SH. Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth
18/09/15	12:00	19.50	19.50	114	7.30
21/09/15	12:30	19.50	19.50	114	12.90
21/09/15	14:15	25.50	25.50	114	-

<ol style="list-style-type: none"> Hand dug inspection pit to 1.20m. 114.30mm diameter rotary-vibratory core barrell used in conjunction with semi-rigid U86 plastic liner. Water added to aid drilling process. Installed with 50mm standpipe piezometer on completion. Response Zone between 8.00 and 25.50m depth.
All dimensions in metres Scale: 1:50

Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: CSM	
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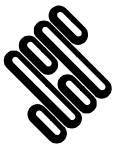


Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP5
Contract Ref: 763468	Start: 17.09.15 End: 21.09.15	Ground Level (m): 14.14	National Grid Co-ordinate: E:645928.7 N:265295.9	Sheet: 2 of 12

Depth (m)	Samples & Testing			Mechanical Log				Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
	No	Type	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)					
										Buff silty fine SAND interbedded with orangish brown silty fine to medium sand. Bedding is medium spaced. <i>(stratum copied from 6.80m from previous sheet)</i> ... below 9.00m, slightly gravelly. Gravel is subrounded fine to coarse quartzite and flint.	10.50	
										Reddish brown silty SAND with frequent coarse sand sized shell fragments. Sand is fine to coarse.	10.90	
										Reddish brown thinly laminated brown silty slightly gravelly SAND. Sand is fine to coarse. Gravel is subrounded fine to medium quartzite and flint.	11.25	
										Light brown with orange brown staining silty SAND. Sand is fine to medium.	(0.90)	
										... at 12.10m, clayey band.	12.15	
										Reddish brown silty SAND with frequent coarse sand sized shell fragments. Sand is fine to coarse.	(0.65)	
										... 12.75m-12.80m, brown sandy gravelly clay. Gravel is subangular fine mudstone.	12.80	
										Brown silty clayey SAND with rare coarse sand sized shell fragments. Sand is fine to coarse. ... 13.12m-13.40m, at 13.50m, clay absent. ... 13.70m-14.90m, with dark brown, grey and reddish brown staining.	(2.20)	
										Brown silty SAND with rare pockets of very stiff brown clay. Sand is fine to medium.	15.00	
										... 16.40m-16.50m, 16.60m-17.16m, fine to coarse. ... at 16.70m, band of clay. ... 16.83m-17.16m, occasional coarse sand sized shell fragments.		

GINT LIBRARY v8.05.GLB.LibVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log SONIC DRILLING LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 14:40 | SH. Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552259, Web: www.soils.co.uk, Email: ask@soils.co.uk

Boring Progress and Water Observations						General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth		
Method Used: Sonic Drilling						All dimensions in metres	
Plant Used: Boart Longyear DB320 Sonic						Scale: 1:50	
Drilled By: DR						Logged By: AJones	
Checked By: CSM						Checked By: AGS	



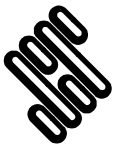
Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP5
Contract Ref: 763468	Start: 17.09.15 End: 21.09.15	Ground Level (m): 14.14	National Grid Co-ordinate: E:645928.7 N:265295.9	Sheet: 3 of 12

Depth (m)	Samples & Testing			Mechanical Log				Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
	No	Type	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)					
										Brown silty SAND with rare pockets of very stiff brown clay. Sand is fine to medium. <i>(stratum copied from 15.00m from previous sheet)</i> . . . below 18.00m, frequent shell fragments and occasional pockets of reddish fine to coarse shelly sand.	(7.50)	
										Grey silty clayey SAND with rare coarse sand sized shell fragments. Sand is fine to coarse.	(1.65)	
										Orangish brown silty SAND. Sand is fine to medium.	(1.35)	
										Borehole terminated at 25.50m depth.		

GINT LIBRARY v8.05.GLB.LibVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log SONIC DRILLING LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 14:40 | SH. Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

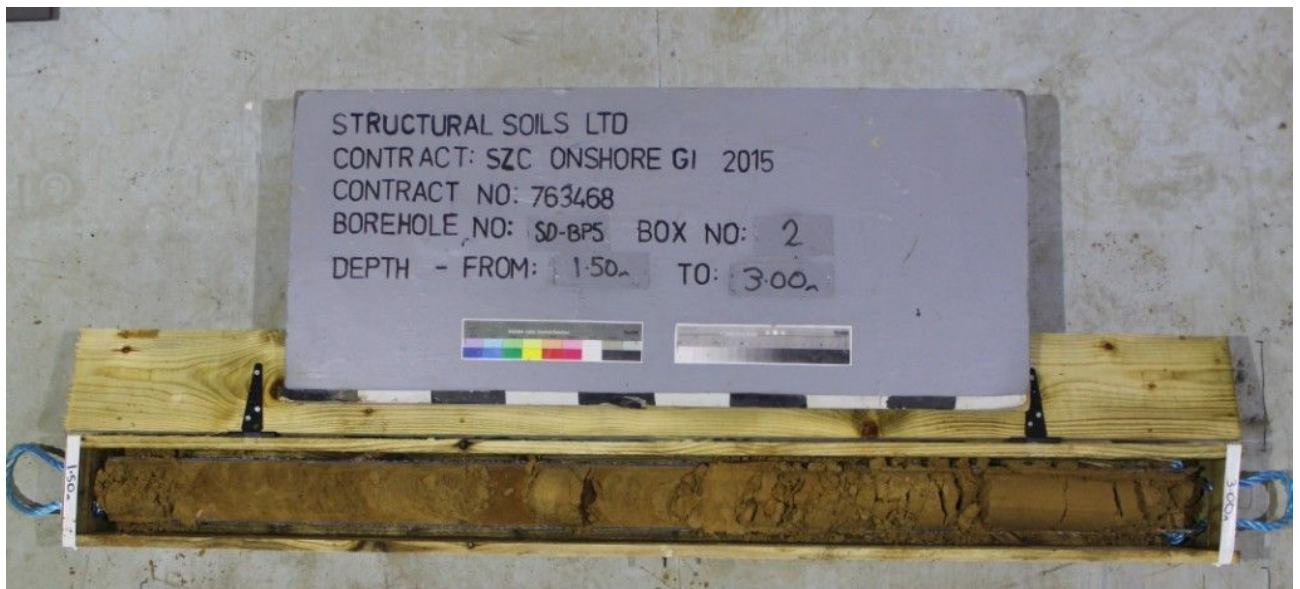
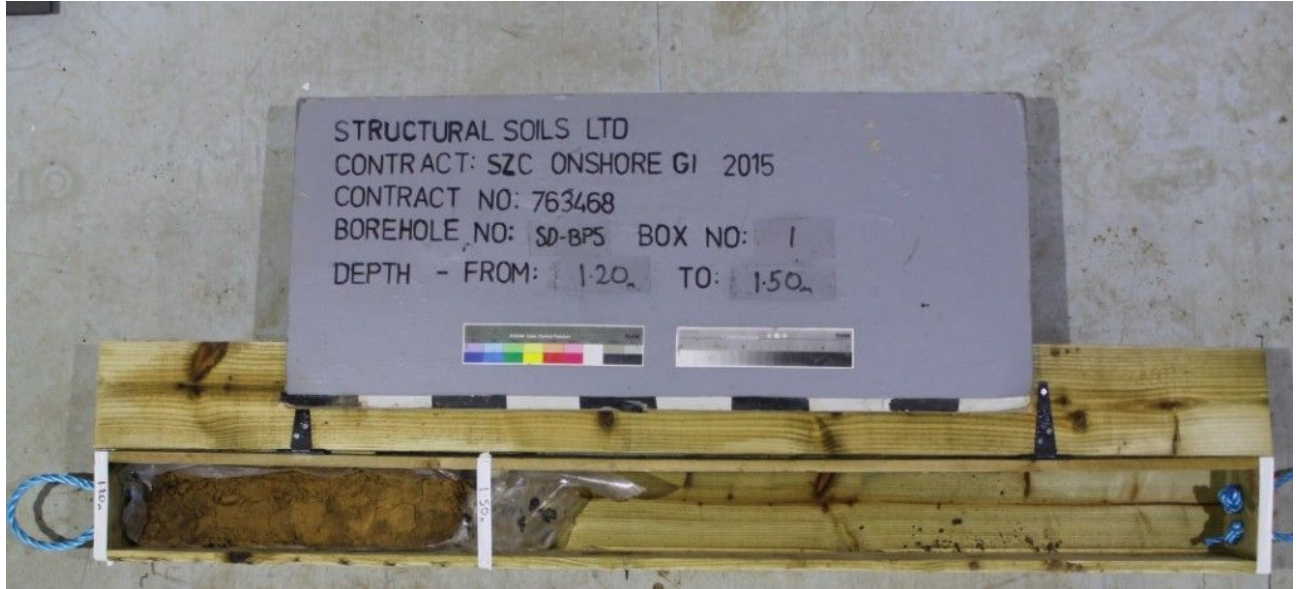
Boring Progress and Water Observations						General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth		
						All dimensions in metres Scale: 1:50	

Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: CSM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP5
Contract Ref: 763468	Start: 17.09.15 End: 21.09.15	Ground Level (m): 14.14	National Grid Co-ordinate: E:645928.7 N:265295.9	Sheet: 4 of 12

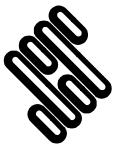
Core Box 1



Core Box 2

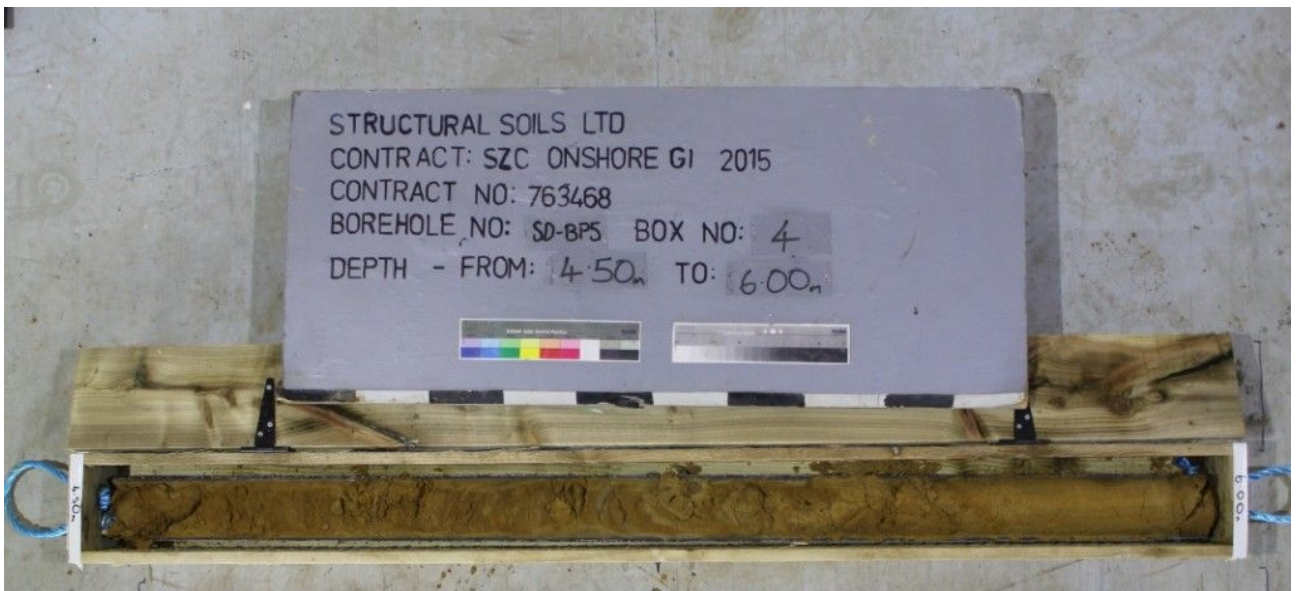
GINT LIBRARY v8.05.GLB LibVersion: v8.05 - Lib0004 ProjVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log SONIC DRILLING LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 14:40 | SH. Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP5
Contract Ref: 763468	Start: 17.09.15 End: 21.09.15	Ground Level (m): 14.14	National Grid Co-ordinate: E:645928.7 N:265295.9	Sheet: 5 of 12

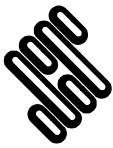
Core Box 3



Core Box 4

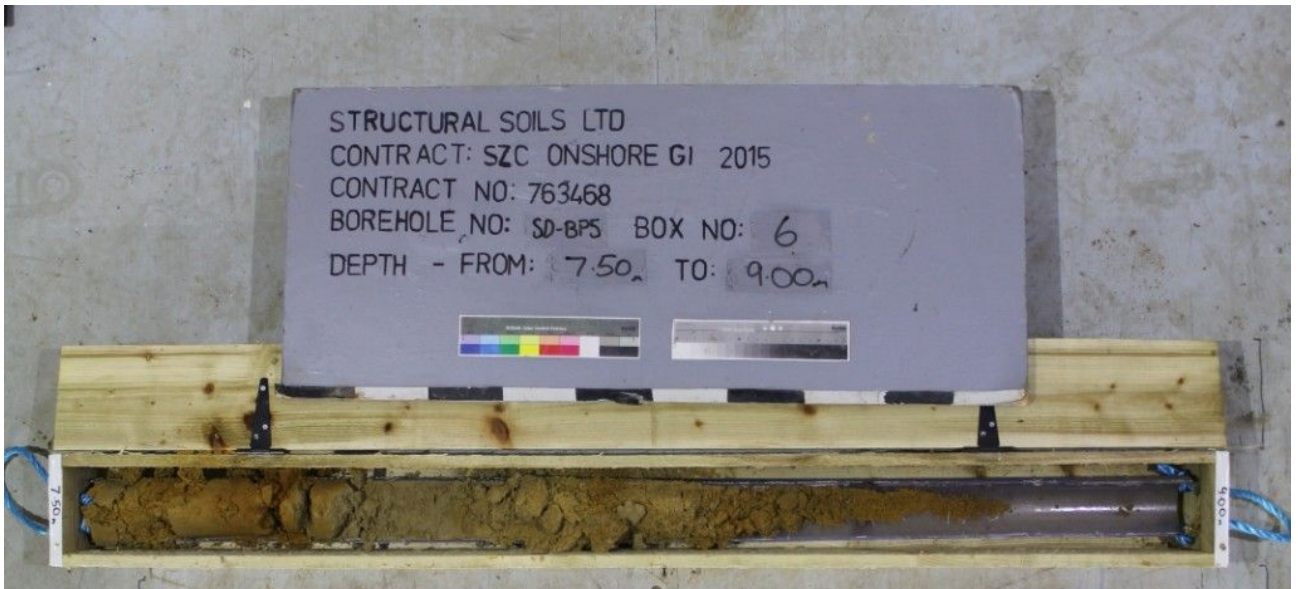
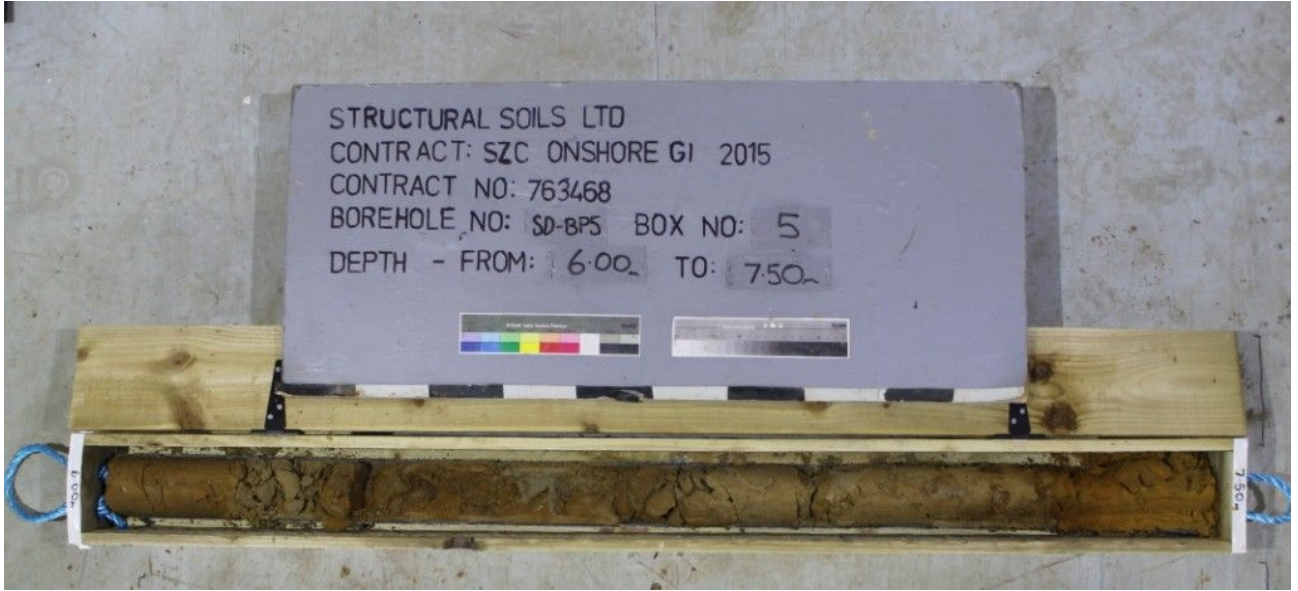
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Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP5
Contract Ref: 763468	Start: 17.09.15 End: 21.09.15	Ground Level (m): 14.14	National Grid Co-ordinate: E:645928.7 N:265295.9	Sheet: 6 of 12

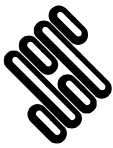
Core Box 5



Core Box 6

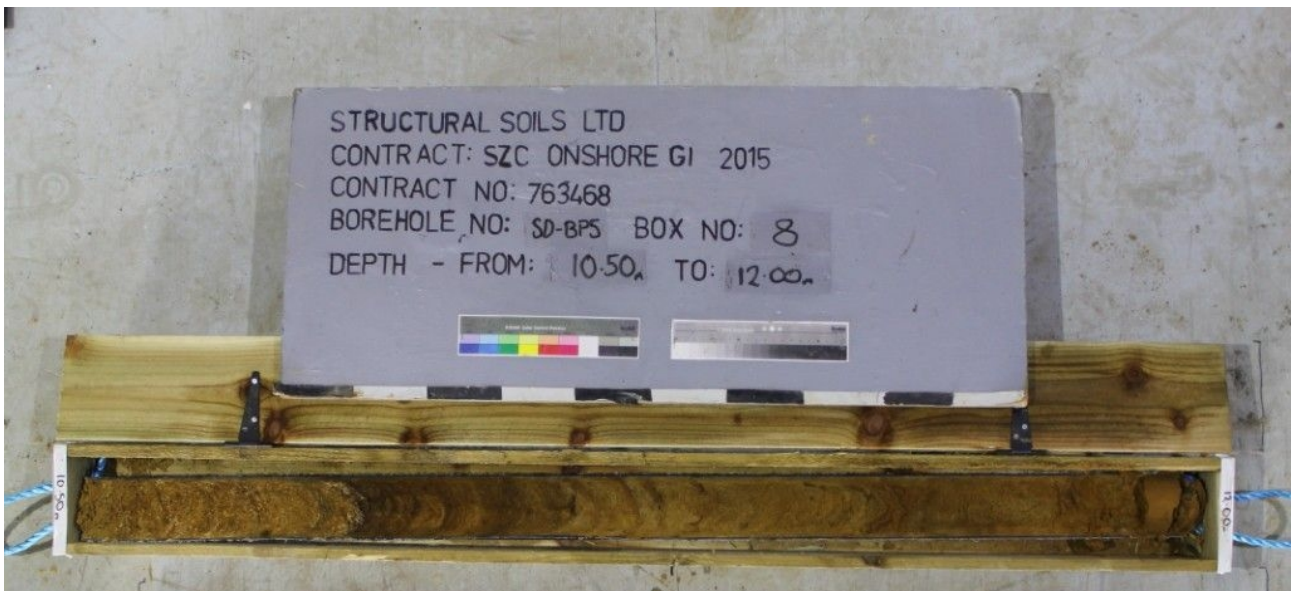
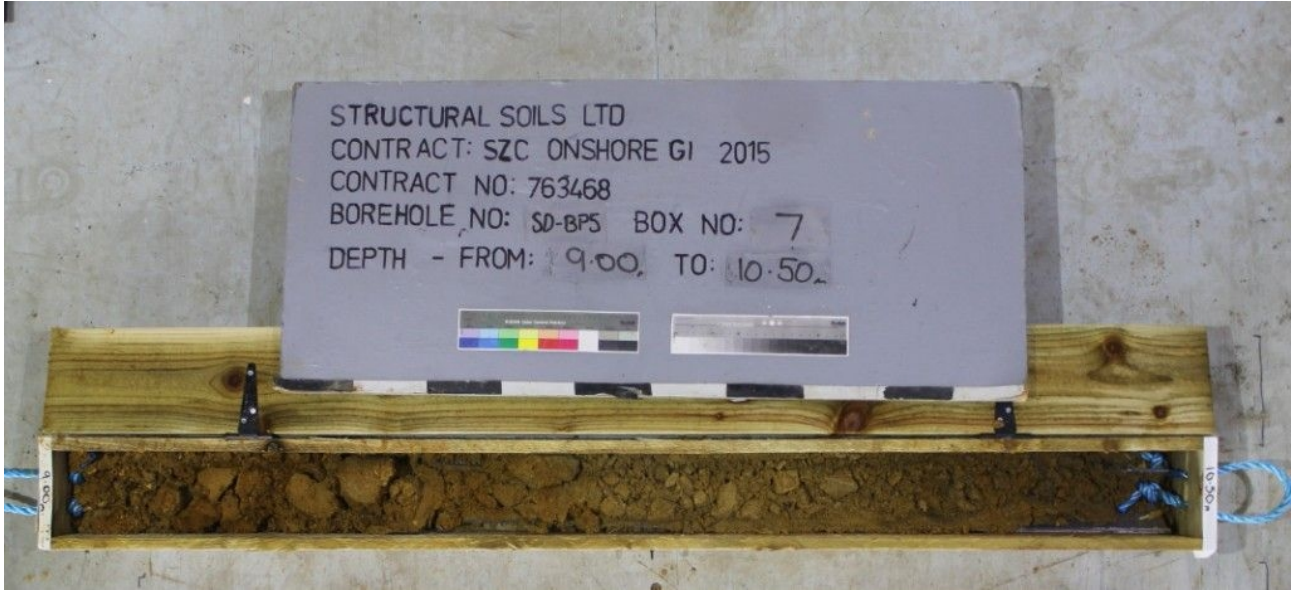
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Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP5
Contract Ref: 763468	Start: 17.09.15 End: 21.09.15	Ground Level (m): 14.14	National Grid Co-ordinate: E:645928.7 N:265295.9	Sheet: 7 of 12

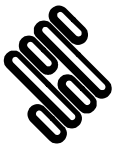
Core Box 7



Core Box 8

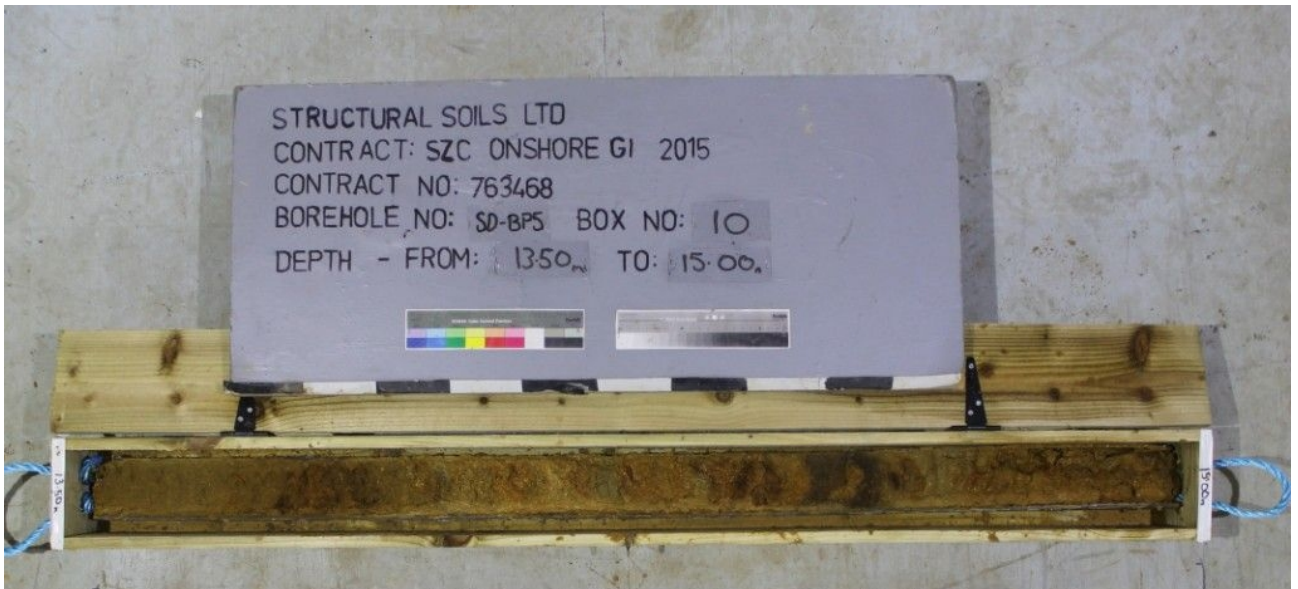
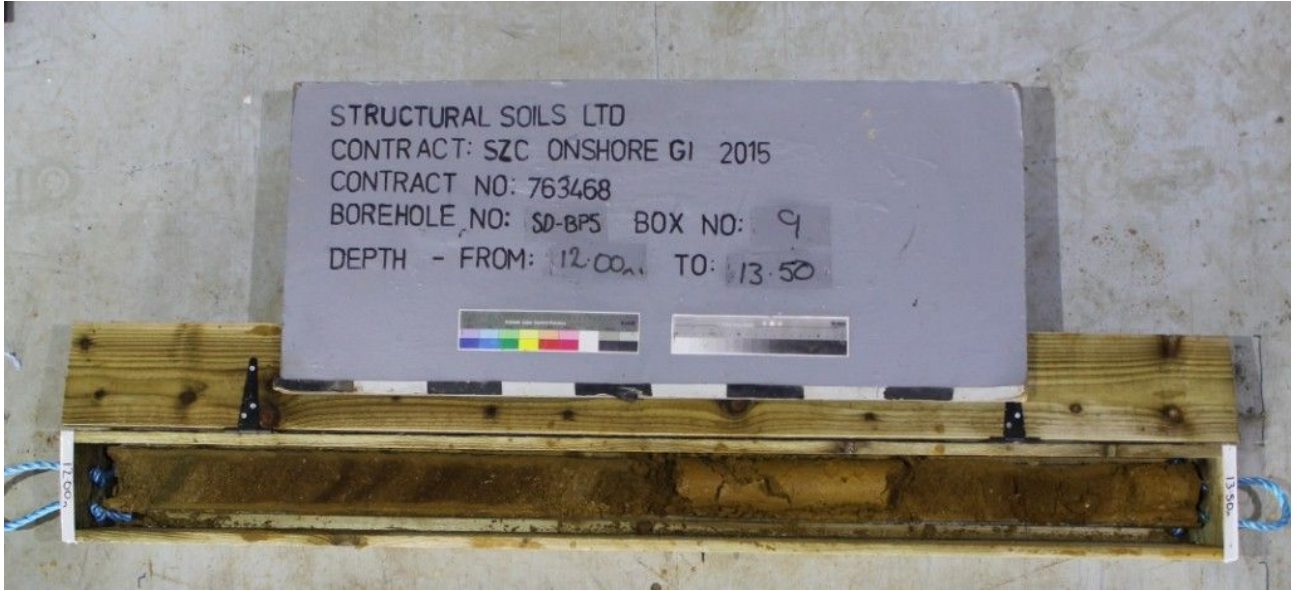
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Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP5
Contract Ref: 763468	Start: 17.09.15 End: 21.09.15	Ground Level (m): 14.14	National Grid Co-ordinate: E:645928.7 N:265295.9	Sheet: 8 of 12

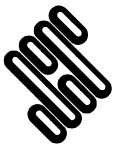
Core Box 9



Core Box 10

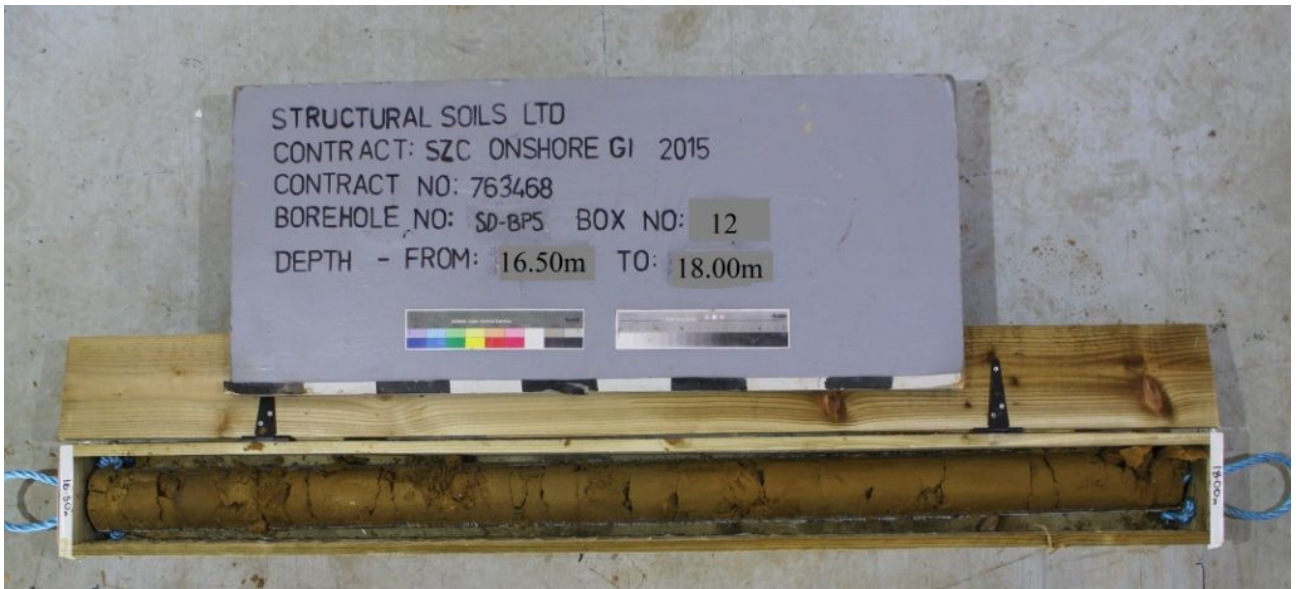
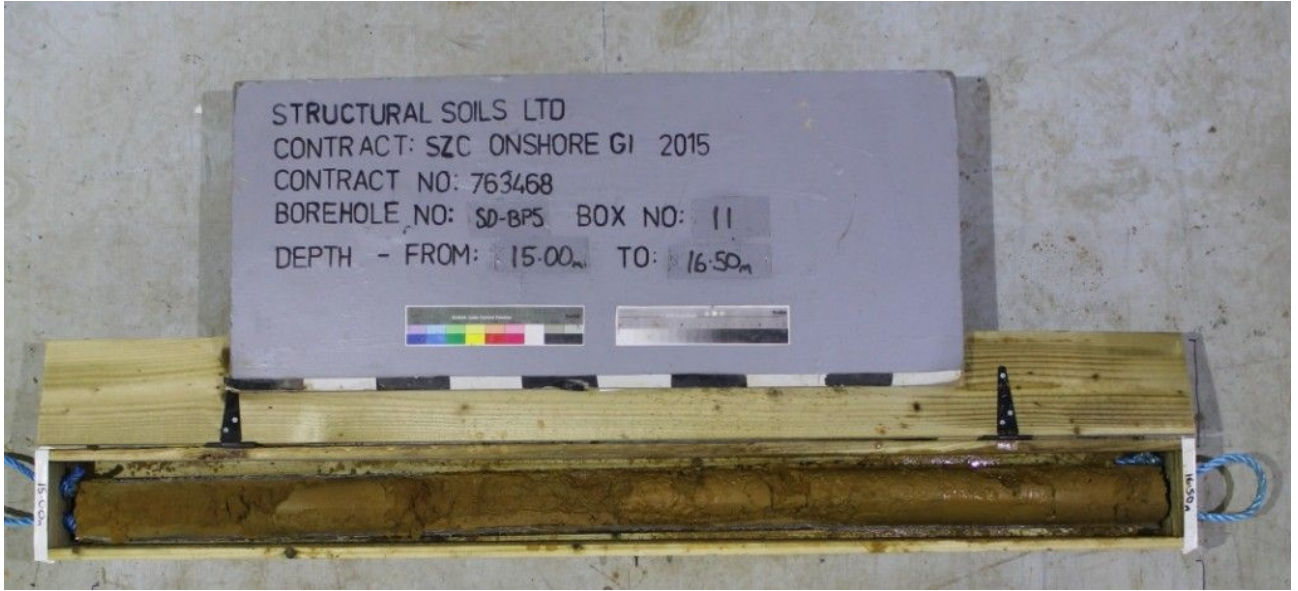
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Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP5
Contract Ref: 763468	Start: 17.09.15 End: 21.09.15	Ground Level (m): 14.14	National Grid Co-ordinate: E:645928.7 N:265295.9	Sheet: 9 of 12

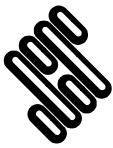
Core Box 11



Core Box 12

GINT LIBRARY v8.05.GLB LibVersion: v8.05 - Lib0004 ProjVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log SONIC DRILLING LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 14:40 | SH. Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP5
Contract Ref: 763468	Start: 17.09.15 End: 21.09.15	Ground Level (m): 14.14	National Grid Co-ordinate: E:645928.7 N:265295.9	Sheet: 10 of 12

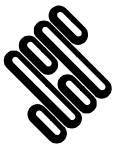
Core Box 13



Core Box 14

GINT LIBRARY v8.05.GLB LibVersion: v8.05 - Lib0004 ProjVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log SONIC DRILLING LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 14:40 | SH. Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP5
Contract Ref: 763468	Start: 17.09.15 End: 21.09.15	Ground Level (m): 14.14	National Grid Co-ordinate: E:645928.7 N:265295.9	Sheet: 11 of 12

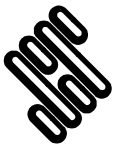
Core Box 15



Core Box 16

GINT LIBRARY v8.05.GLB LibVersion: v8.05 - Lib0004 ProjVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log SONIC DRILLING LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 14:40 | SH. Structural Soils Ltd, Branch Office - Castleford - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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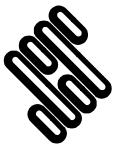
Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP5
Contract Ref: 763468	Start: 17.09.15 End: 21.09.15	Ground Level (m): 14.14	National Grid Co-ordinate: E:645928.7 N:265295.9	Sheet: 12 of 12

Core Box 17



GINT LIBRARY v8.05.GLB.LibVersion: v8.05 - Lib0004 ProjVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log SONIC DRILLING LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 14:40 | SH. Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP6	
Contract Ref: 763468		Start: 09.09.15	Ground Level (m): 15.47	National Grid Co-ordinate: E:645586.3 N:265285.6	Sheet: 1 of 12
End: 10.09.15					

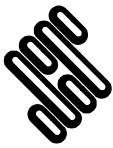
Depth (m)	Samples & Testing			Mechanical Log				Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
	No	Type	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)					
0.30-0.50	1	B								Brown slightly clayey slightly gravelly fine to medium SAND. Gravel is angular to subrounded medium to coarse flint and quartzite.	0.30	
0.50-1.00	2	B								Yellow slightly clayey SAND. Sand is fine to medium.	(1.46)	
								1.20-1.50m Sonic run			1.76	
								1.50-3.00m Sonic run		Buff silty SAND. Sand is fine to medium.	(1.24)	
								3.00-4.50m Sonic run		Brown interbedded with buff silty slightly gravelly SAND. Sand is fine to coarse. Gravel is subrounded fine to coarse quartzite and flint. Frequent coarse sand sized shell fragments. Bedding is medium spaced.	(1.70)	
								4.50-6.00m Sonic run		Brown thickly laminated with reddish brown silty SAND. Sand is fine to medium. Rare bands of brown clay.	4.70	
								6.00-7.50m Sonic run		... 5.00m-5.20m, fine to coarse with frequent coarse sand sized shell fragments.	(2.90)	
								7.50-9.00m Sonic run		Reddish brown thickly laminated with grey silty SAND. Sand is fine to medium.	7.60	
										... at 8.20m, reddish brown clay.	(0.85)	
										Light brown with orangish brown silty SAND. Sand is fine to coarse. Rare subrounded fine gravel of quartzite and flint.	8.45	
											(0.55)	
											9.00	

GINT LIBRARY v8.05 - Lib0004 ProjVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log SONIC DRILLING LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 14:40 | SH. Structural Soils Ltd, Branch Office - Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth
09/09/15	18:00	16.50	16.50	114	7.40
10/09/15	08:00	16.50	16.50	114	8.10
10/09/15	12:45	25.50	25.50	114	-

<ol style="list-style-type: none"> Hand dug inspection pit to 1.20m. 114.30mm diameter rotary-vibratory core barrell used in conjunction with semi-rigid U86 plastic liner. Water added to aid drilling process. Installed with 50mm standpipe piezometer on completion. Response Zone between 8.00 and 25.50m depth.
All dimensions in metres Scale: 1:50

Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: CMH	
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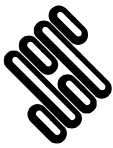
Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP6
Contract Ref: 763468	Start: 09.09.15 End: 10.09.15	Ground Level (m): 15.47	National Grid Co-ordinate: E:645586.3 N:265285.6	Sheet: 2 of 12

Depth (m)	Samples & Testing			Mechanical Log				Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
	No	Type	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)					
										Reddish brown silty slightly gravelly SAND. Sand is fine to medium. Gravel is subrounded fine to medium quartzite and flint.	(2.30)	
										... below 10.40m, fine to coarse.		
										Brown silty SAND. Sand is fine to coarse.	(0.70)	
										Brown silty SAND with frequent coarse sand sized shell fragments. Sand is fine to coarse.	(1.50)	
										... below 12.90m, with reddish brown staining.		
										Reddish brown interbedded with brown silty SAND. Sand is fine to medium. Bedding is very thinly spaced.	(2.80)	
										... 13.90m-14.23m, cobble sized pockets of grey clay.		
										... at 14.55m, coarse gravel sized pocket of grey clay.		
										... 14.60m-14.80m, with coarse gravel size pockets of grey and brown clay. Sand is brown.		
										... 15.10m-15.24m, with gravel sized pockets of brown clay.		
										... at 15.40m, occasional coarse sand sized shell fragments.		
										... 15.70m-15.85m, stiff brown clay.		
										... 15.85m-16.10m, frequent coarse sand sized shell fragments.	16.30	
										... 15.90m-15.96m, grey clay with orangish brown staining.		
										Light brown silty SAND with frequent coarse sand sized shell fragments. Sand is fine to coarse.	(1.30)	
										... 17.00m-17.40m, at 18.00m, brown.		
										<i>Description on next sheet</i>	17.60	

GINT LIBRARY v8.05.GLB LibVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log SONIC DRILLING LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 14:40 | SH. Structural Soils Ltd, Branch Office - Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks	
All dimensions in metres	
Scale:	1:50
Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic
Drilled By: DR	Logged By: AJones
Checked By: CSM	

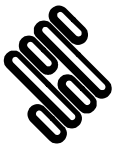


Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP6
Contract Ref: 763468	Start: 09.09.15 End: 10.09.15	Ground Level (m): 15.47	National Grid Co-ordinate: E:645586.3 N:265285.6	Sheet: 3 of 12

Depth (m)	Samples & Testing			Mechanical Log				Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
	No	Type	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)					
										Brown thickly laminated with reddish brown silty SAND. Sand is fine to coarse. Frequent coarse sand sized shell fragments. <i>(stratum copied from 17.60m from previous sheet)</i>		
										... 19.50m-19.70m, slightly gravelly. Gravel is rounded fine to medium quartzite and flint.	(4.90)	
										... at 20.48m, with thin beds of reddish brown silty sand. ... at 20.76m, brown clay.		
										... 21.60m-21.67m, dark brown. ... below 21.80m, grey.	22.50	
										Reddish brown thinly laminated with reddish brown silty SAND with frequent coarse sand sized shell fragments. Sand is fine to coarse.	(3.00)	
										... at 25.06m, 25.40m-25.45m, grey clay.	25.50	
										Borehole terminated at 25.50m depth.		

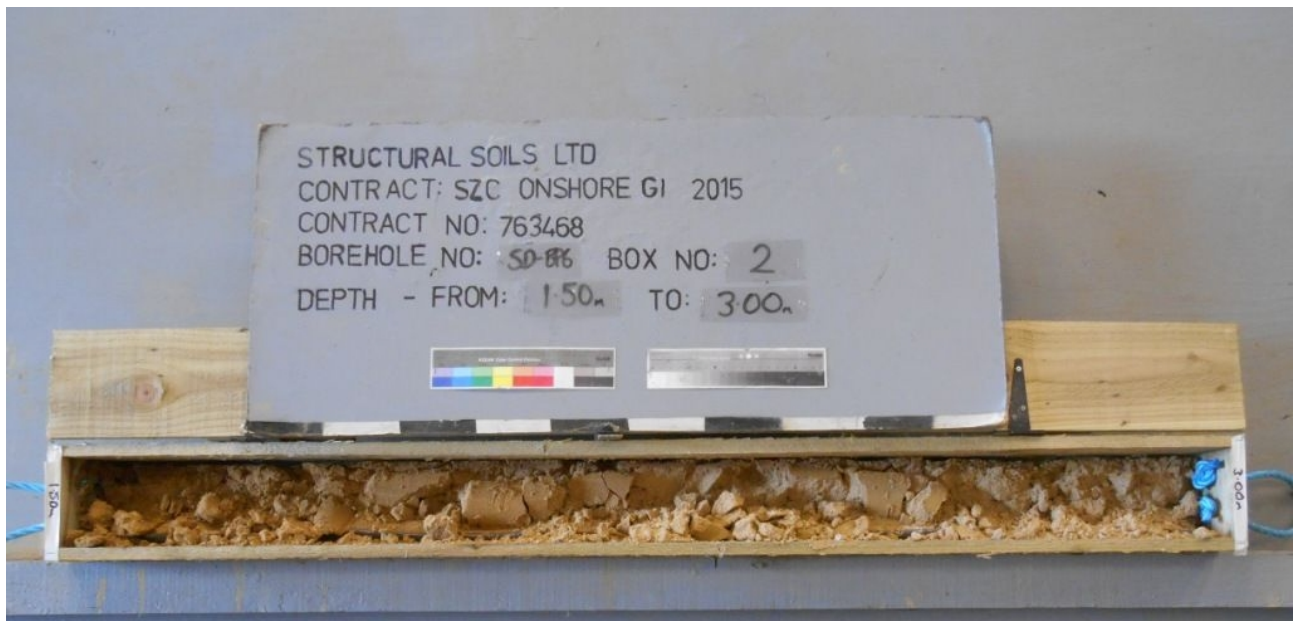
GINT LIBRARY v8.05.GLB LibVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log SONIC DRILLING LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 14:40 | SH. Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Boring Progress and Water Observations						General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	
Method Used: Sonic Drilling						All dimensions in metres
Plant Used: Boart Longyear DB320 Sonic						
Drilled By: DR		Logged By: AJones		Scale: 1:50		Checked By: CSM



Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP6
Contract Ref: 763468	Start: 09.09.15 End: 10.09.15	Ground Level (m): 15.47	National Grid Co-ordinate: E:645586.3 N:265285.6	Sheet: 4 of 12

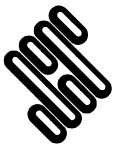
Core Box 1



Core Box 2

GINT LIBRARY v8.05.GI.B Lib Version: v8.05 - Lib0004 Proj Version: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log SONIC DRILLING LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 14:41 | SH. Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP6
Contract Ref: 763468	Start: 09.09.15 End: 10.09.15	Ground Level (m): 15.47	National Grid Co-ordinate: E:645586.3 N:265285.6	Sheet: 5 of 12

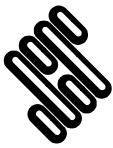
Core Box 3



Core Box 4

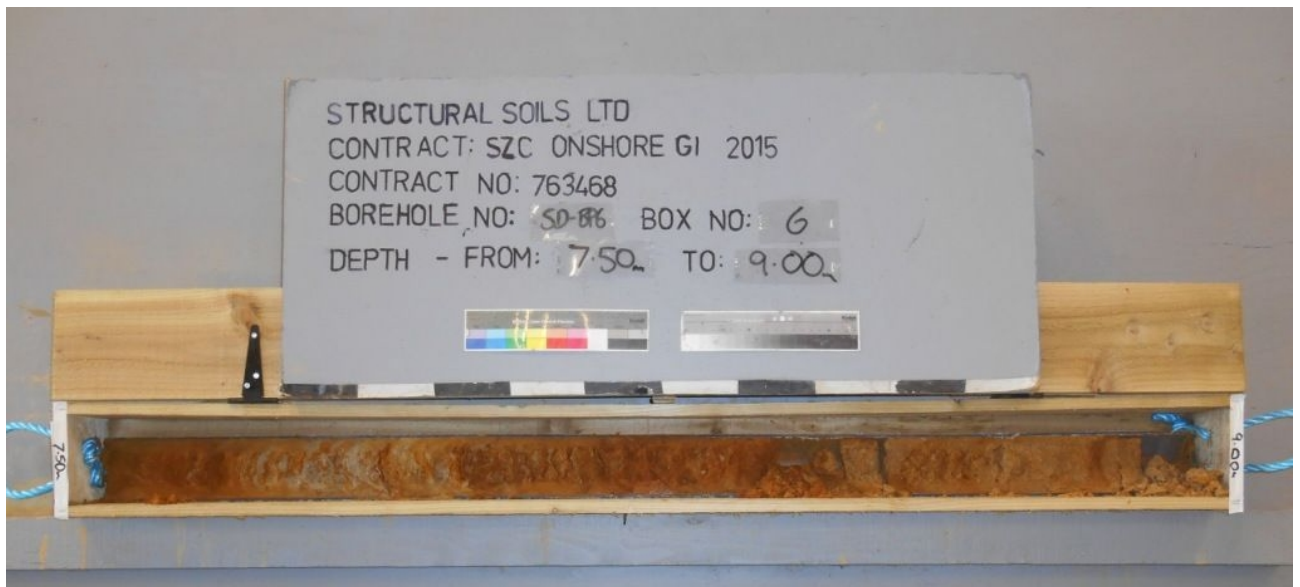
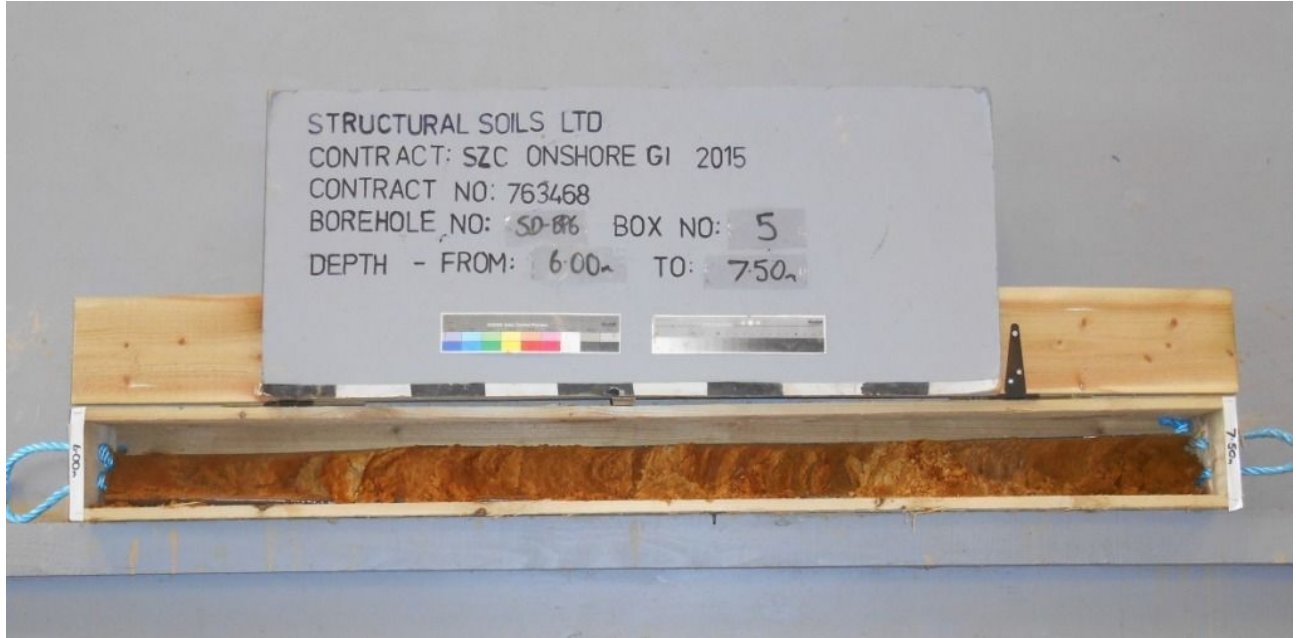
GINT LIBRARY v8.05.GLB LibVersion: v8.05 - Lib0004 ProjVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log SONIC DRILLING LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 14:41 | SH. Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP6
Contract Ref: 763468	Start: 09.09.15 End: 10.09.15	Ground Level (m): 15.47	National Grid Co-ordinate: E:645586.3 N:265285.6	Sheet: 6 of 12

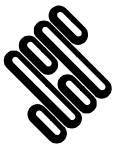
Core Box 5



Core Box 6

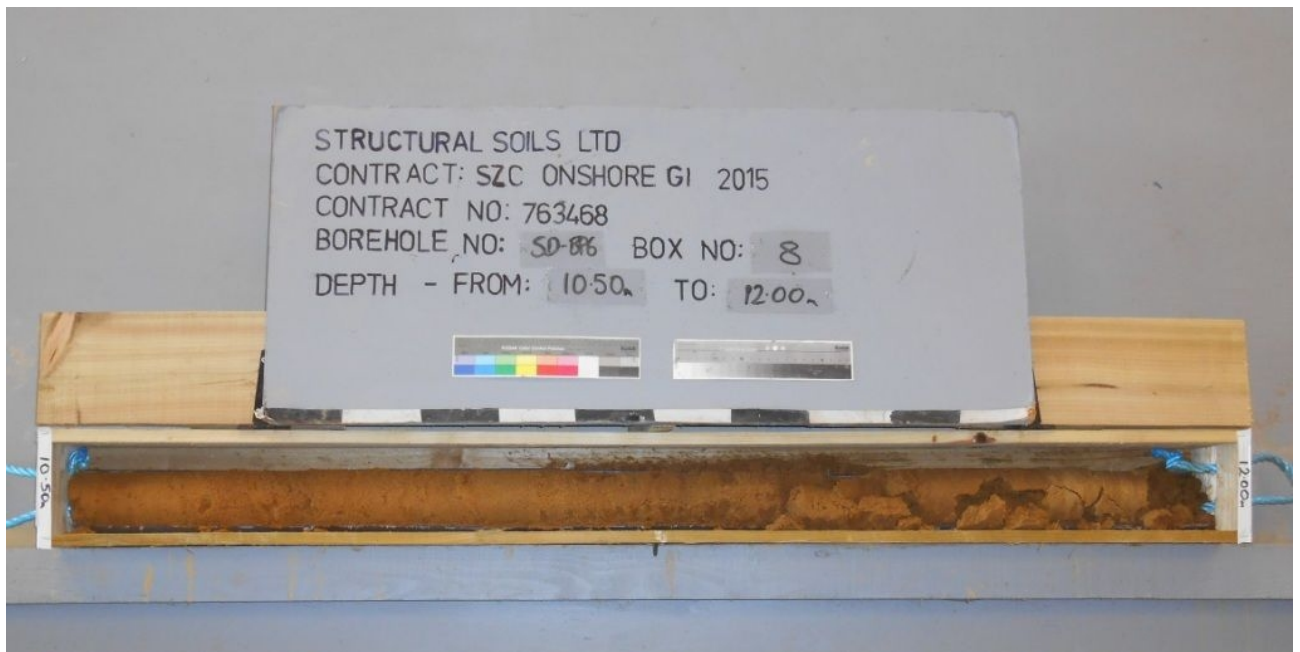
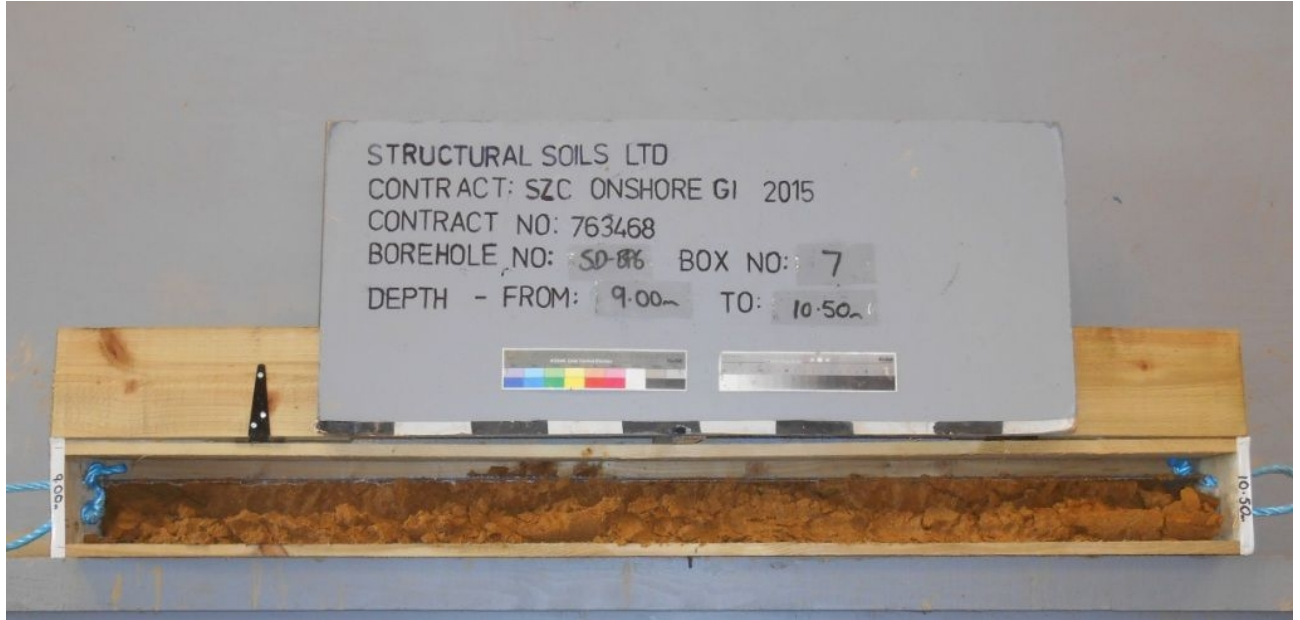
GINT LIBRARY v8.05.GI.B LibVersion: v8.05 - Lib0004 ProjVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log SONIC DRILLING LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 14:41 | SH. Structural Soils Ltd, Branch Office - Castleford, The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP6
Contract Ref: 763468	Start: 09.09.15 End: 10.09.15	Ground Level (m): 15.47	National Grid Co-ordinate: E:645586.3 N:265285.6	Sheet: 7 of 12

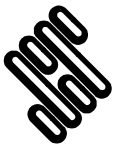
Core Box 7



Core Box 8

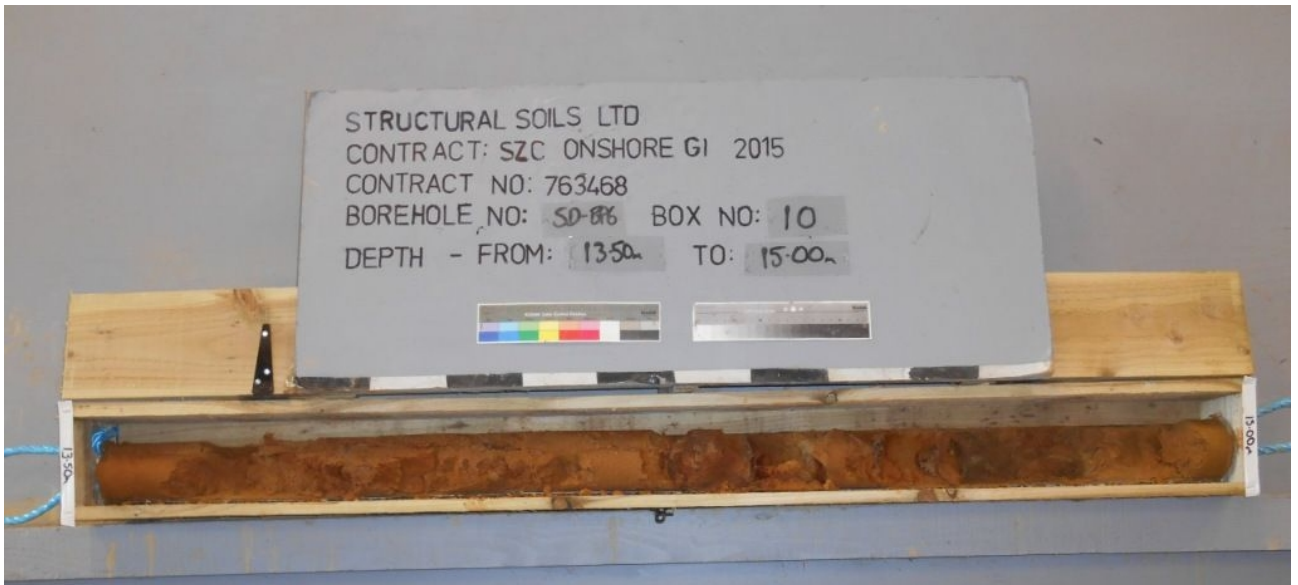
GINT LIBRARY v8.05.GI.B LibVersion: v8.05 - Lib0004 ProjVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log SONIC DRILLING LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 14:41 | SH. Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP6
Contract Ref: 763468	Start: 09.09.15 End: 10.09.15	Ground Level (m): 15.47	National Grid Co-ordinate: E:645586.3 N:265285.6	Sheet: 8 of 12

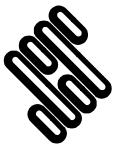
Core Box 9



Core Box 10

GINT LIBRARY v8.05.GLB LibVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log SONIC DRILLING LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 14:41 | SH. Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP6
Contract Ref: 763468	Start: 09.09.15 End: 10.09.15	Ground Lev (m): 15.47	National Grid Co-ordinate: E:645586.3 N:265285.6	Sheet: 9 of 12

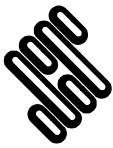
Core Box 11



Core Box 12

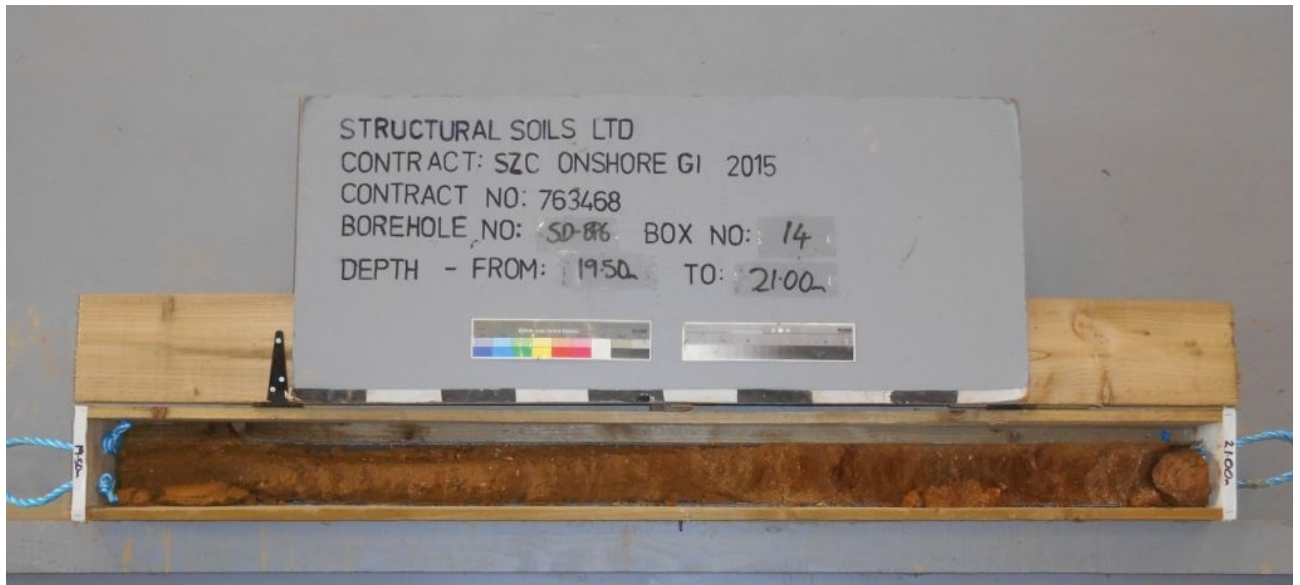
GINT LIBRARY v8.05.GLB LibVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log SONIC DRILLING LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 14:41 | SH. Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP6
Contract Ref: 763468	Start: 09.09.15 End: 10.09.15	Ground Level (m): 15.47	National Grid Co-ordinate: E:645586.3 N:265285.6	Sheet: 10 of 12

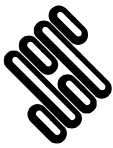
Core Box 13



Core Box 14

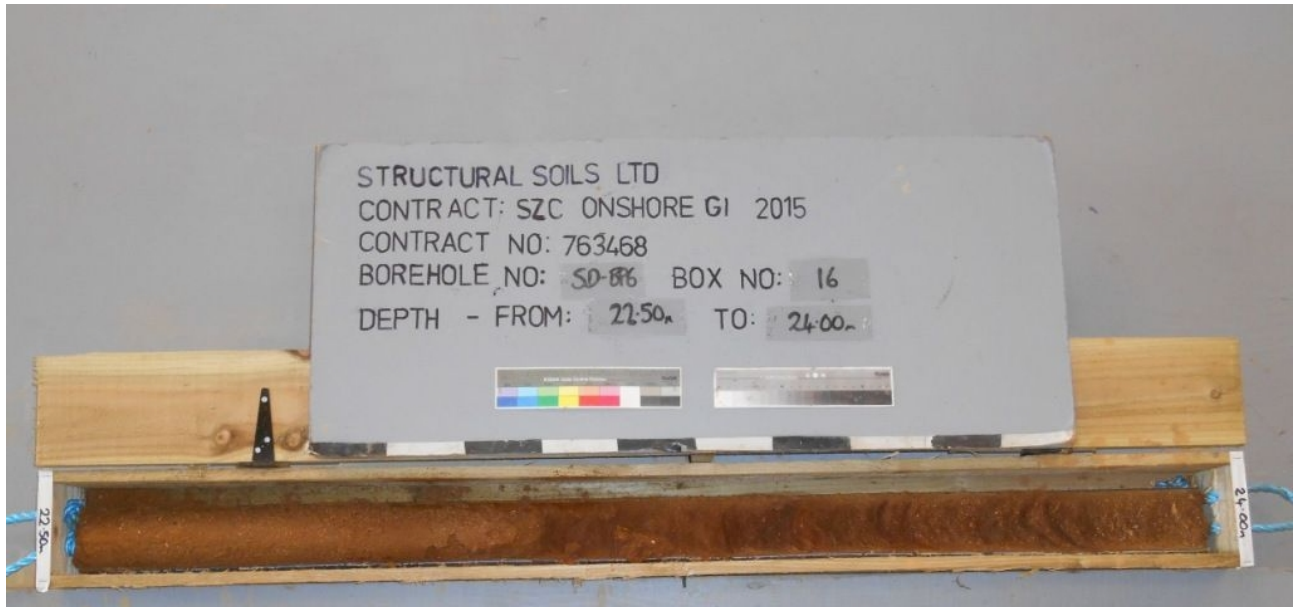
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Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP6
Contract Ref: 763468	Start: 09.09.15 End: 10.09.15	Ground Level (m): 15.47	National Grid Co-ordinate: E:645586.3 N:265285.6	Sheet: 11 of 12

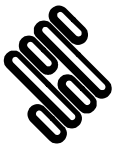
Core Box 15



Core Box 16

GINT LIBRARY v8.05.GI.B.LibVersion: v8.05 - Lib0004 ProjVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log SONIC DRILLING LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 14:41 | SH. Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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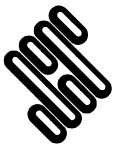
Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP6
Contract Ref: 763468	Start: 09.09.15 End: 10.09.15	Ground Level (m): 15.47	National Grid Co-ordinate: E:645586.3 N:265285.6	Sheet: 12 of 12

Core Box 17



GINT LIBRARY v8.05.GLB LibVersion: v8.05 - Lib0004 ProjVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log SONIC DRILLING LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 14:41 | SH. Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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Contract: SZC 2015 Onshore GI			Client: NNB GenCo			Borehole: SD-BP7		
Contract Ref: 763468		Start: 02.09.15	Ground Level (m): 17.23		National Grid Co-ordinate: E:645326.2 N:265150.7		Sheet: 1 of 12	
End: 04.09.15								

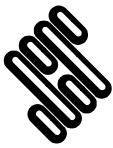
Depth (m)	Samples & Testing			Mechanical Log				Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend			
	No	Type	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)								
0.00-0.60	1	B								Scrub over reddish brown clayey sandy TOPSOIL.	0.10				
0.60-1.20	2	B								Reddish brown silty slightly gravelly SAND. Sand is fine to medium. Gravel is subrounded fine to coarse possible quartzite. Occasional cobbles. Cobbles are subrounded quartzite and flint.	(0.50)				
											Yellowish brown silty slightly gravelly SAND. Sand is fine to medium with occasional coarse sands. Gravel is subrounded fine to medium quartzite and flint.	0.60			
												Firm reddish brown silty sandy slightly gravelly CLAY. Sand is fine to medium. Gravel is subrounded fine to coarse flint and quartzite . . . below 1.50m, stiff.	(0.70)		
													1.30		
													1.50-3.00m Sonic run		
														(1.55)	
														2.85	
										Soft light greyish brown sandy slightly gravelly CLAY. Sand is fine. Gravel is subangular fine to medium quartzite and flint.	3.00				
										Light brown silty SAND. Sand is fine. Occasional cobble sized pockets of reddish brown sand.					
											(3.10)				
										. . . 4.90m-5.10m, orangish brown pocket.					
										. . . below 5.85m, very silty to clayey fine to medium.	6.10				
										Light brown gravelly SAND. Sand is fine to coarse. Gravel is subrounded fine to coarse quartzite and sandstone.	(0.90)				
											7.00				
										Stiff brown very sandy CLAY. Sand is fine to coarse.	7.10				
										Brown silty slightly gravelly SAND. Sand is fine to coarse. Gravel is subrounded fine to medium quartzite and flint. Occasional pockets of brown sandy slightly gravelly clay. Gravel is subrounded fine quartzite and flint.	(1.10)				
											8.20				
										Orangish brown silty SAND. Sand is fine.	(0.80)				
											9.00				

GINT LIBRARY v8.05 - Lib0004 ProjVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log SONIC DRILLING LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 14:41 | SH. Structural Soils Ltd, Branch Office - Castleford, The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Boring Progress and Water Observations						General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth		
02/09/15	18:30	12.00	12.00	114	2.90	1. Hand dug inspection pit to 1.20m.	
03/09/15	08:30	12.00	12.00	114	4.00	2. 114.30mm diameter rotary-vibratory core barrell used in conjunction with semi-rigid U86 plastic liner.	
03/09/15	17:30	22.50	22.50	114	15.30	3. Water added to aid drilling process.	
04/09/15	08:30	22.50	22.50	114	15.30	4. Installed with 50mm standpipe piezometer on completion. Response Zone between 8.00 and 25.50m depth.	
04/09/15	10:30	25.50	25.50	114	-		

All dimensions in metres		Scale: 1:50
Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR
		Logged By: AJones
		Checked By: CMH



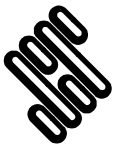


Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP7
Contract Ref: 763468	Start: 02.09.15 End: 04.09.15	Ground Level (m): 17.23	National Grid Co-ordinate: E:645326.2 N:265150.7	Sheet: 2 of 12

Depth (m)	Samples & Testing			Mechanical Log				Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
	No	Type	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)					
										... 8.90m-8.95m, reddish brown. Buff silty SAND. Sand is fine. ... 9.28m-9.44m, grey.	(2.16)	
											11.16	
										Light reddish brown silty SAND. Sand is fine.	(1.74)	
										... 12.48m-12.70m, brown very sandy clay. Sand is fine to medium.	12.90	
										Firm thinly laminated grey CLAY with fine to medium brown sand and orangish brown staining on lamination faces.	13.06	
										Reddish brown silty SAND. Sand is fine to medium. ... 13.10m-13.20m, grey staining.	13.50	
										Stiff thinly laminated greyish brown silty slightly sandy CLAY. Sand is fine. Orangish brown fine sand and orangish brown staining on laminations. Medium spaced thin beds of buff fine sand.	(1.50)	
											15.00	
										Stiff thinly laminated dark grey silty slightly sandy CLAY. Sand is fine. Grey fine sand on lamination faces. ... 15.60m-15.70m, brown with vertical closely spaced fissures. ... 16.00m-16.10m, greenish brown.	(1.50)	
											16.50	
										Stiff thinly laminated greyish brown silty slightly sandy CLAY. Sand is fine. Light brown fine sand and orangish brown staining on lamination faces. Occasional approximately 5-10mm thick beds of brown fine sand. ... 16.80m-17.10m, very sandy.	(1.97)	

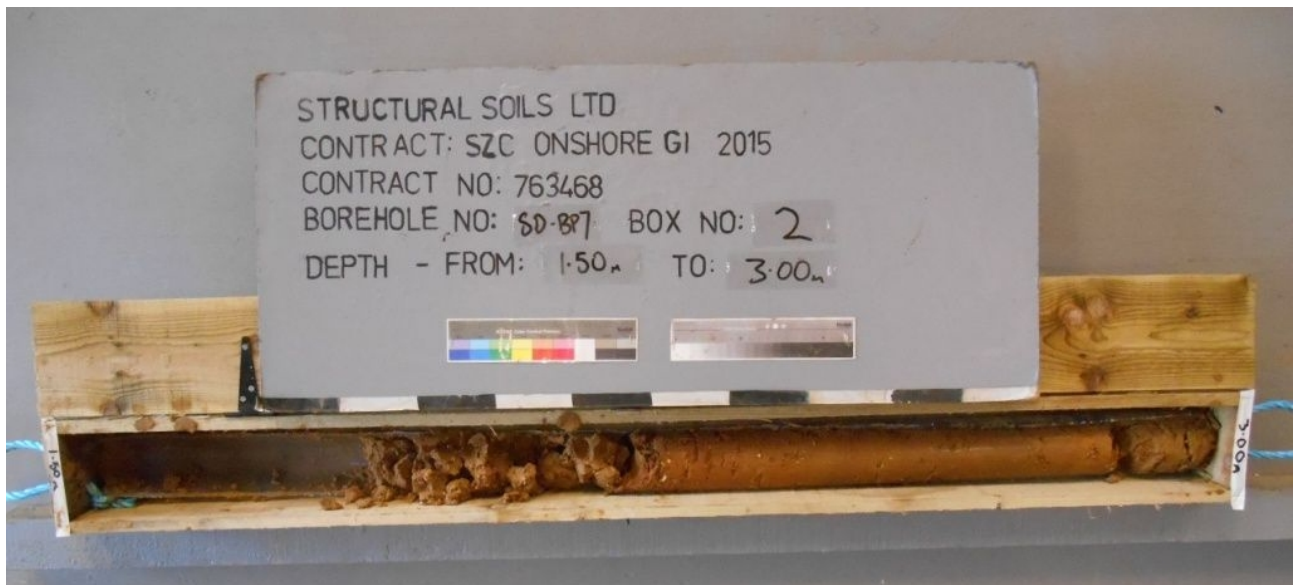
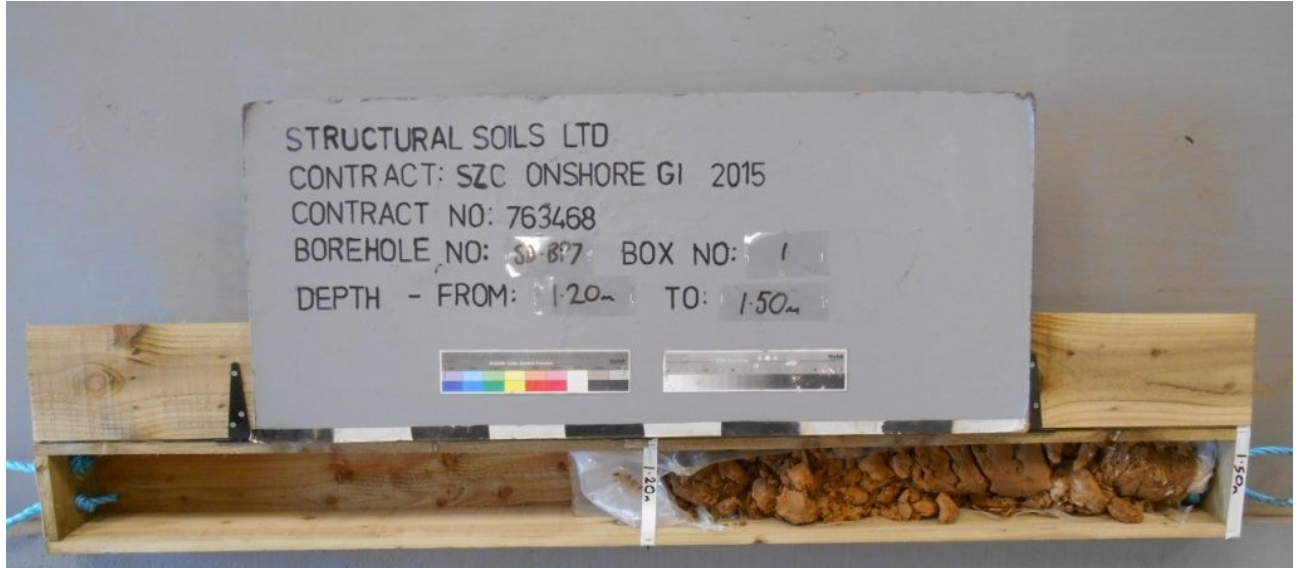
GINT LIBRARY v8.05.GLB.LibVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log SONIC DRILLING LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 14:41 | SH. Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Boring Progress and Water Observations						General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth		
Method Used: Sonic Drilling						All dimensions in metres	
Plant Used: Boart Longyear DB320 Sonic						Scale: 1:50	
Drilled By: DR						Logged By: AJones	
Checked By: CSM						Checked By: AGS	



Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP7
Contract Ref: 763468	Start: 02.09.15 End: 04.09.15	Ground Level (m): 17.23	National Grid Co-ordinate: E:645326.2 N:265150.7	Sheet: 4 of 12

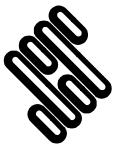
Core Box 1



Core Box 2

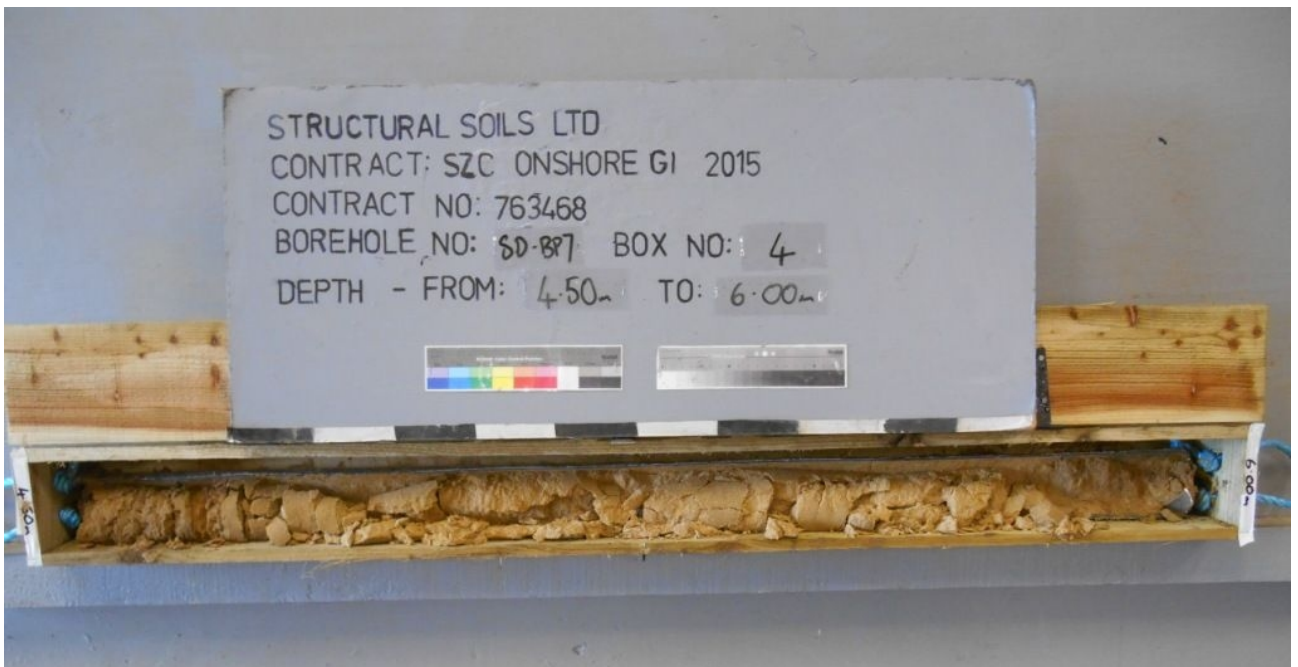
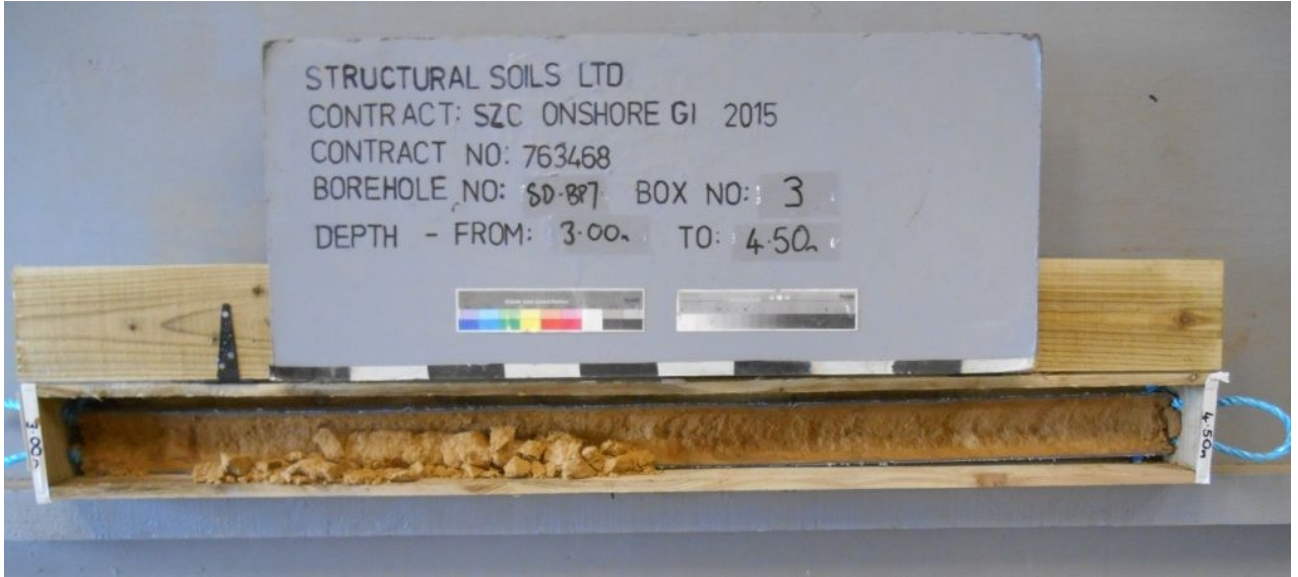
Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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GINT LIBRARY v8.05.GI.B LibVersion: v8.05 - Lib0004 ProjVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log SONIC DRILLING LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 14:41 | SH. Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk



Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP7
Contract Ref: 763468	Start: 02.09.15 End: 04.09.15	Ground Level (m): 17.23	National Grid Co-ordinate: E:645326.2 N:265150.7	Sheet: 5 of 12

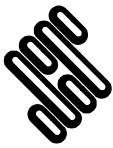
Core Box 3



Core Box 4

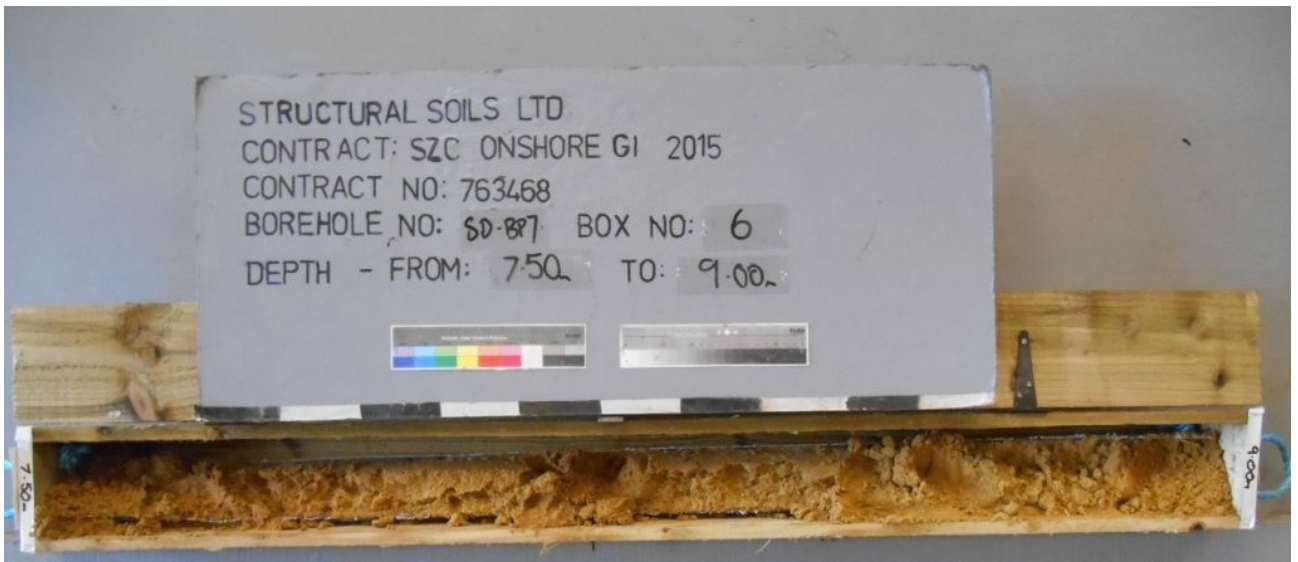
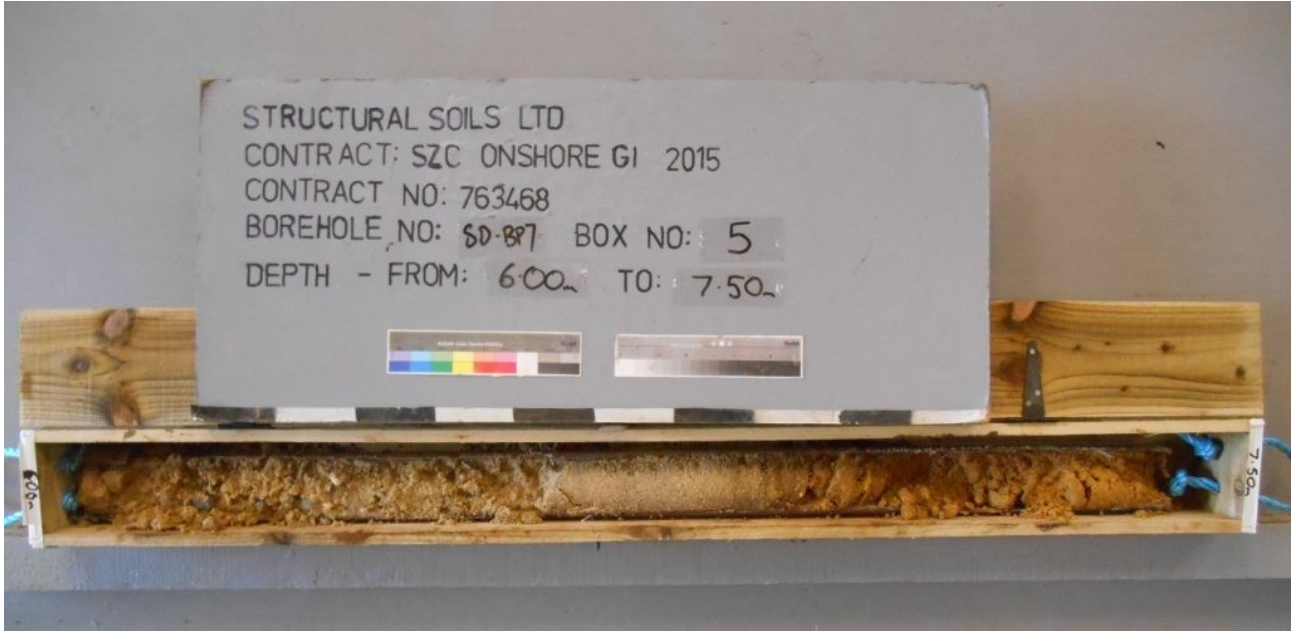
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Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP7
Contract Ref: 763468	Start: 02.09.15 End: 04.09.15	Ground Level (m): 17.23	National Grid Co-ordinate: E:645326.2 N:265150.7	Sheet: 6 of 12

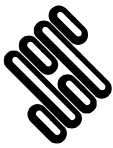
Core Box 5



Core Box 6

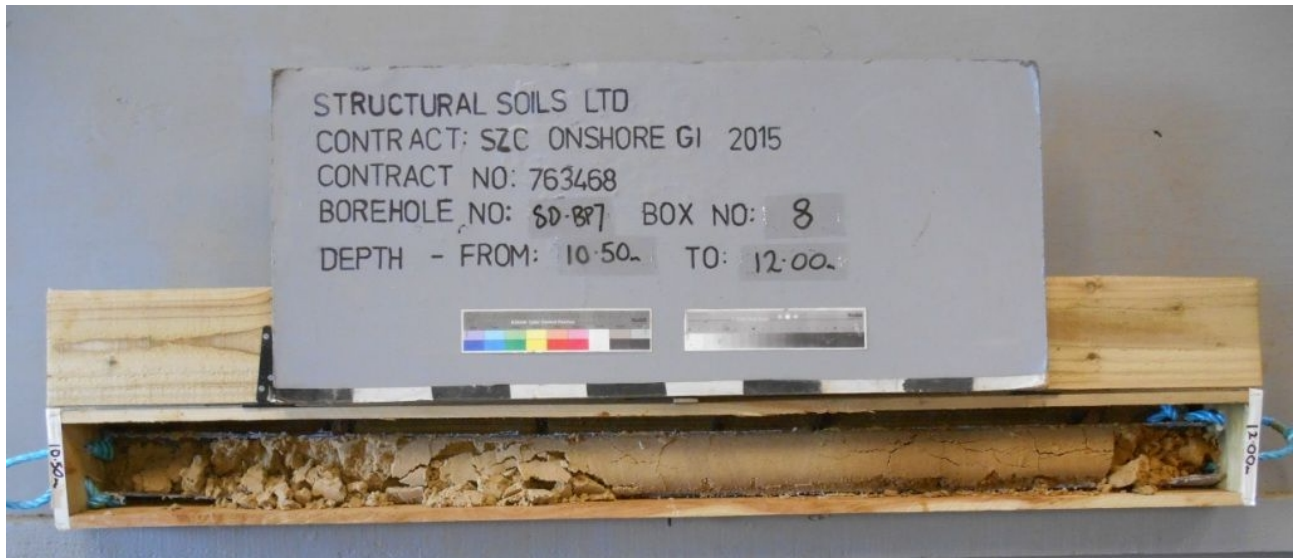
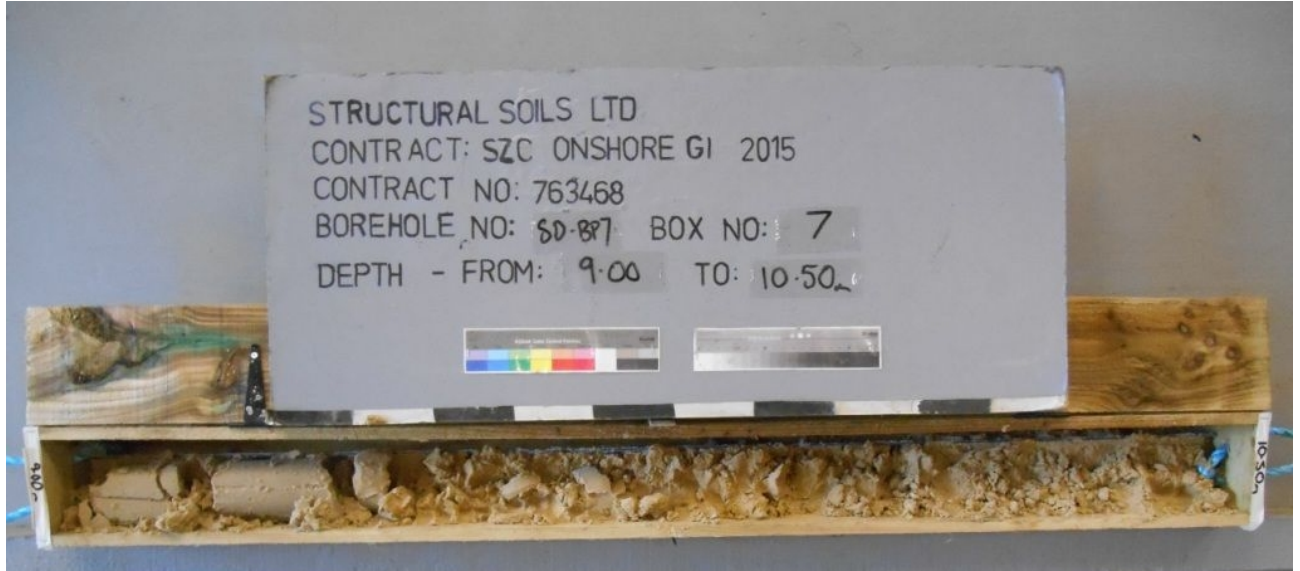
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Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP7
Contract Ref: 763468	Start: 02.09.15 End: 04.09.15	Ground Level (m): 17.23	National Grid Co-ordinate: E:645326.2 N:265150.7	Sheet: 7 of 12

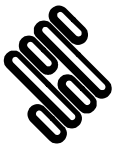
Core Box 7



Core Box 8

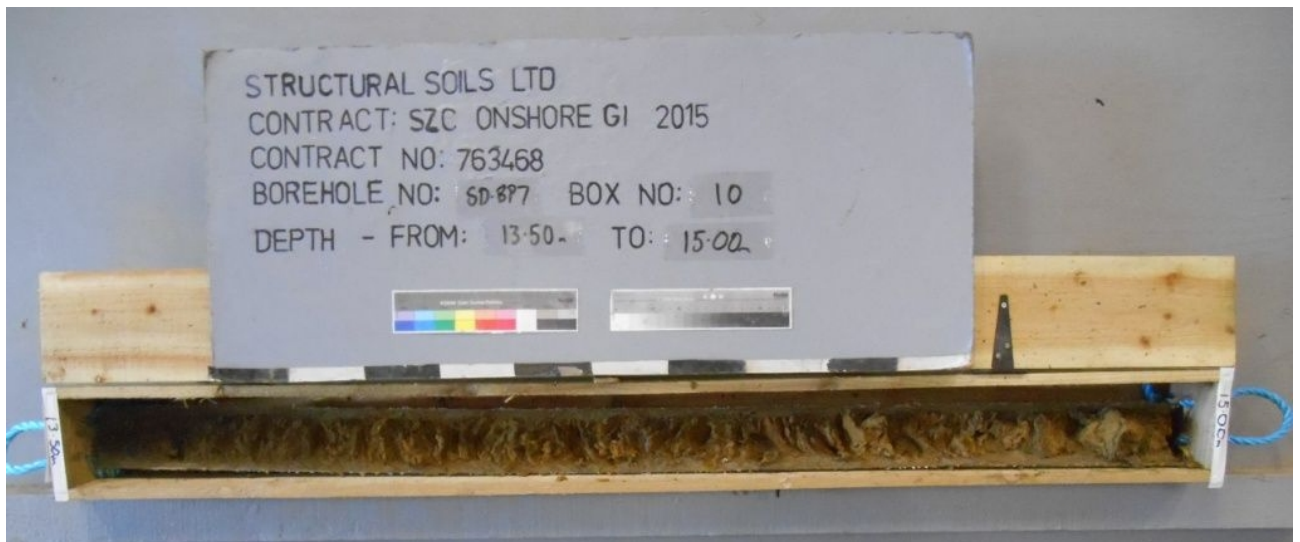
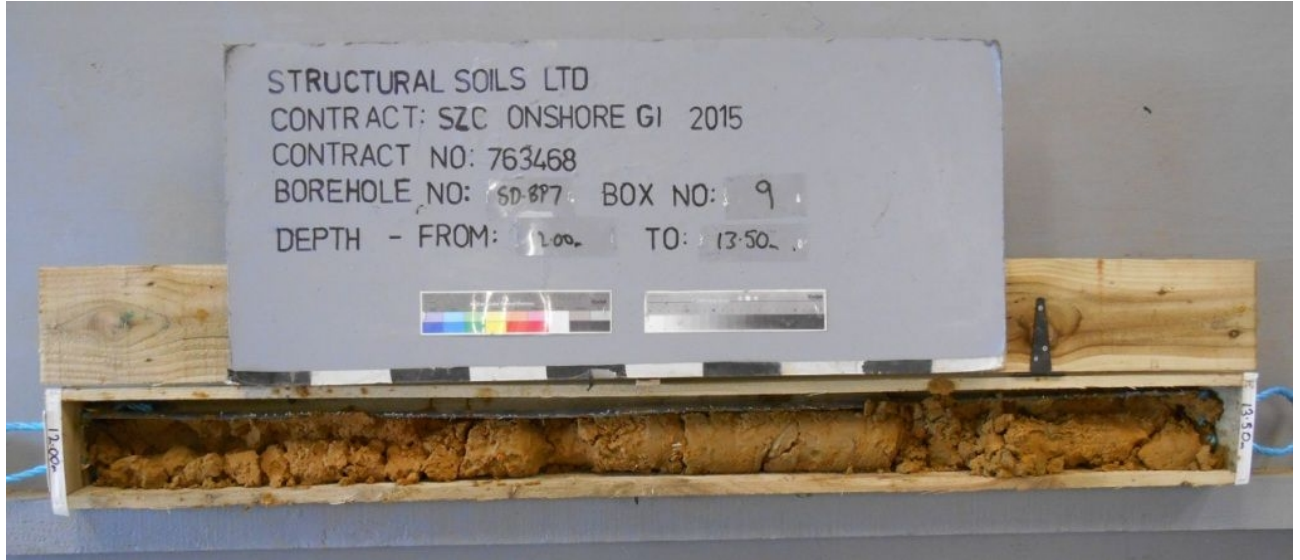
GINT LIBRARY v8.05.GI.B LibVersion: v8.05 - Lib0004 ProjVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log SONIC DRILLING LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 14:41 | SH. Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP7
Contract Ref: 763468	Start: 02.09.15 End: 04.09.15	Ground Level (m): 17.23	National Grid Co-ordinate: E:645326.2 N:265150.7	Sheet: 8 of 12

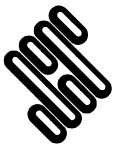
Core Box 9



Core Box 10

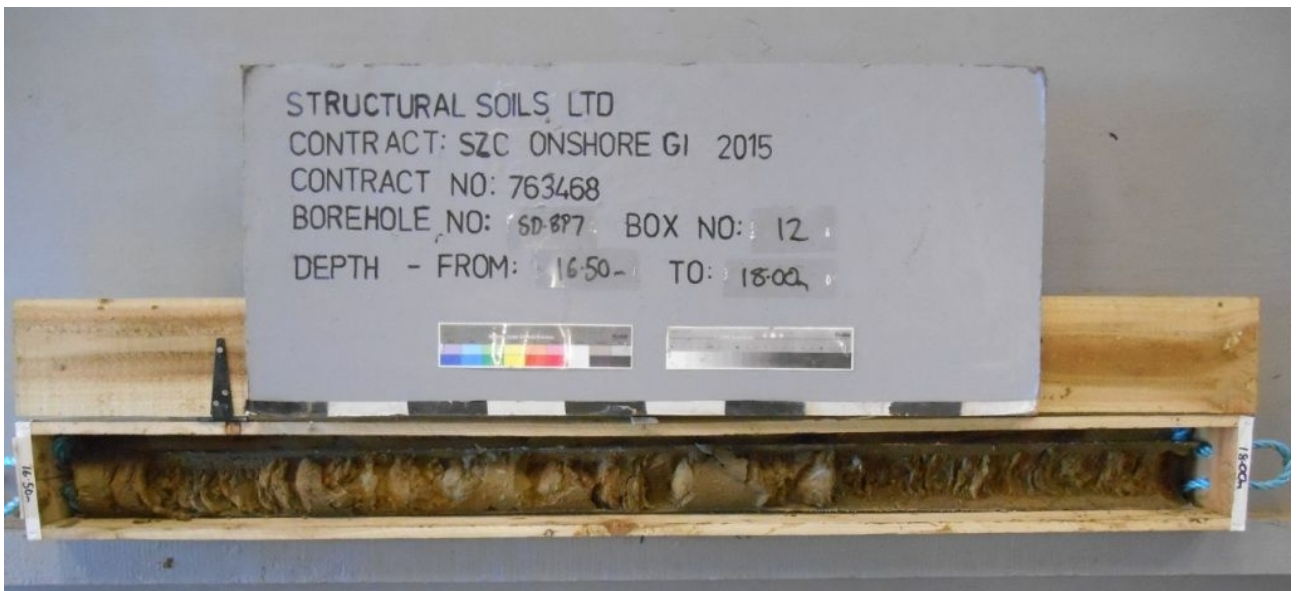
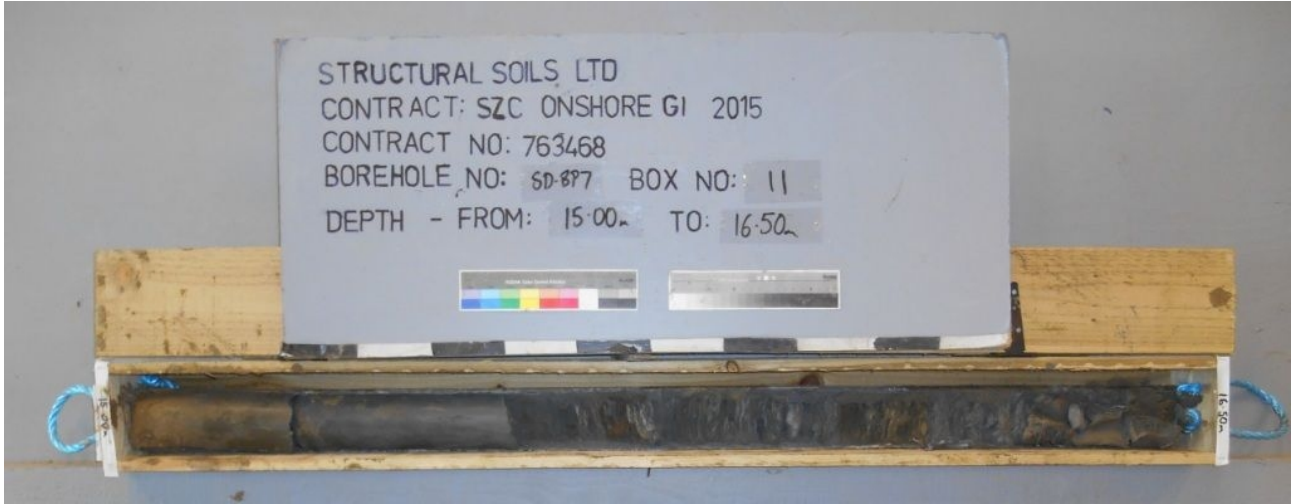
GINT LIBRARY v8.05.GI.B.LibVersion: v8.05 - Lib0004 ProjVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log SONIC DRILLING LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 14:42 | SH. Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP7
Contract Ref: 763468	Start: 02.09.15 End: 04.09.15	Ground Level (m): 17.23	National Grid Co-ordinate: E:645326.2 N:265150.7	Sheet: 9 of 12

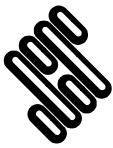
Core Box 11



Core Box 12

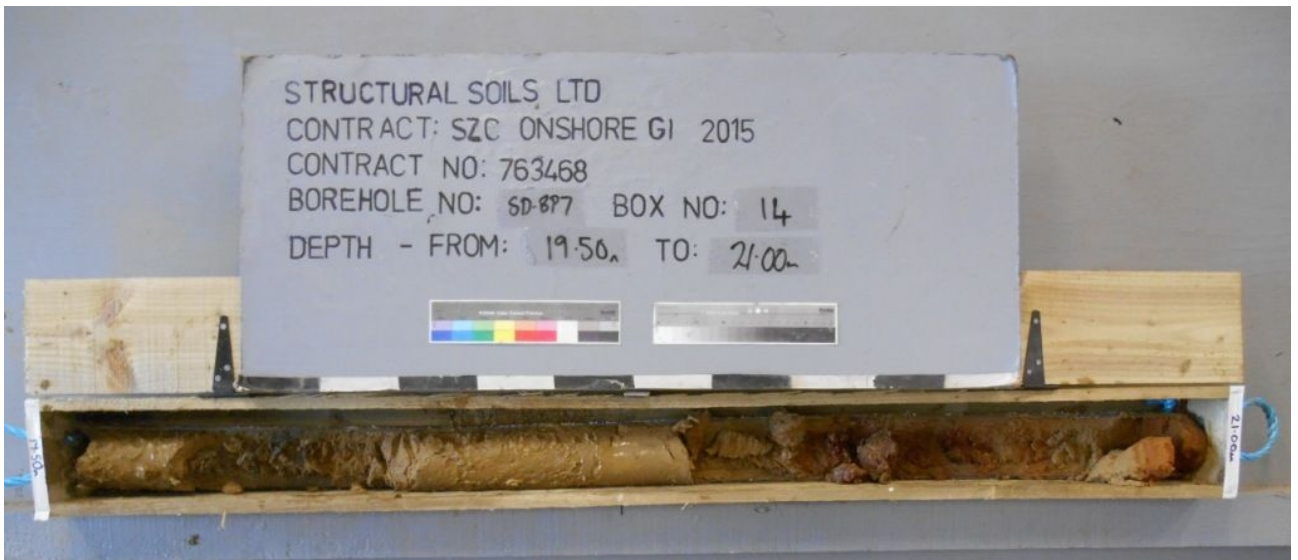
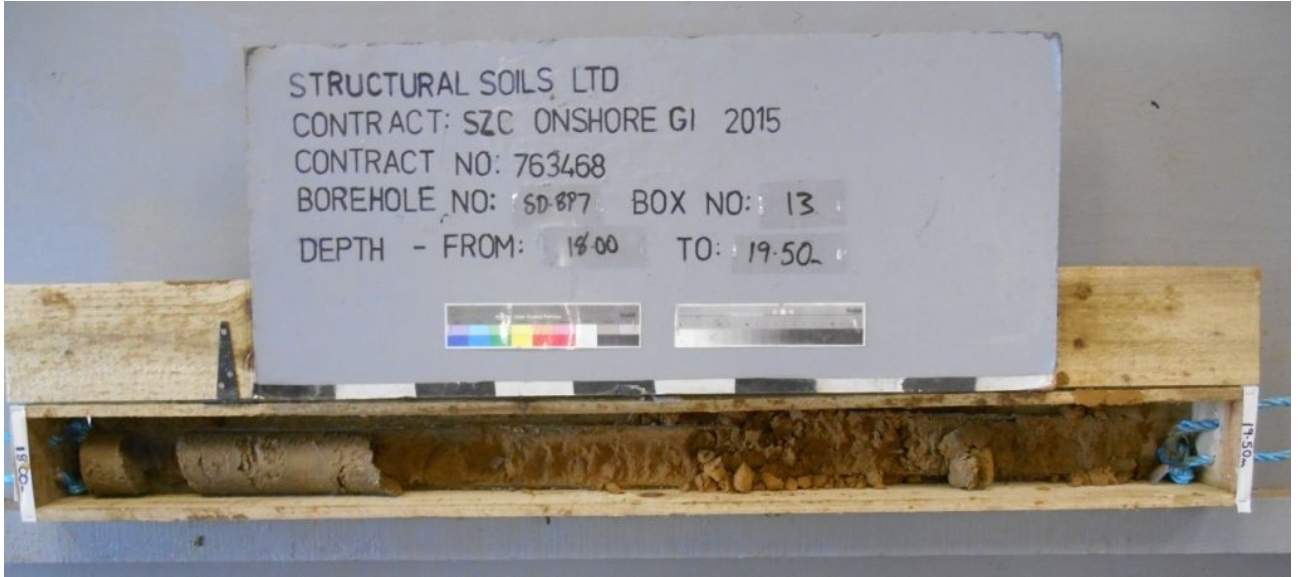
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 Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP7
Contract Ref: 763468	Start: 02.09.15 End: 04.09.15	Ground Level (m): 17.23	National Grid Co-ordinate: E:645326.2 N:265150.7	Sheet: 10 of 12

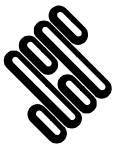
Core Box 13



Core Box 14

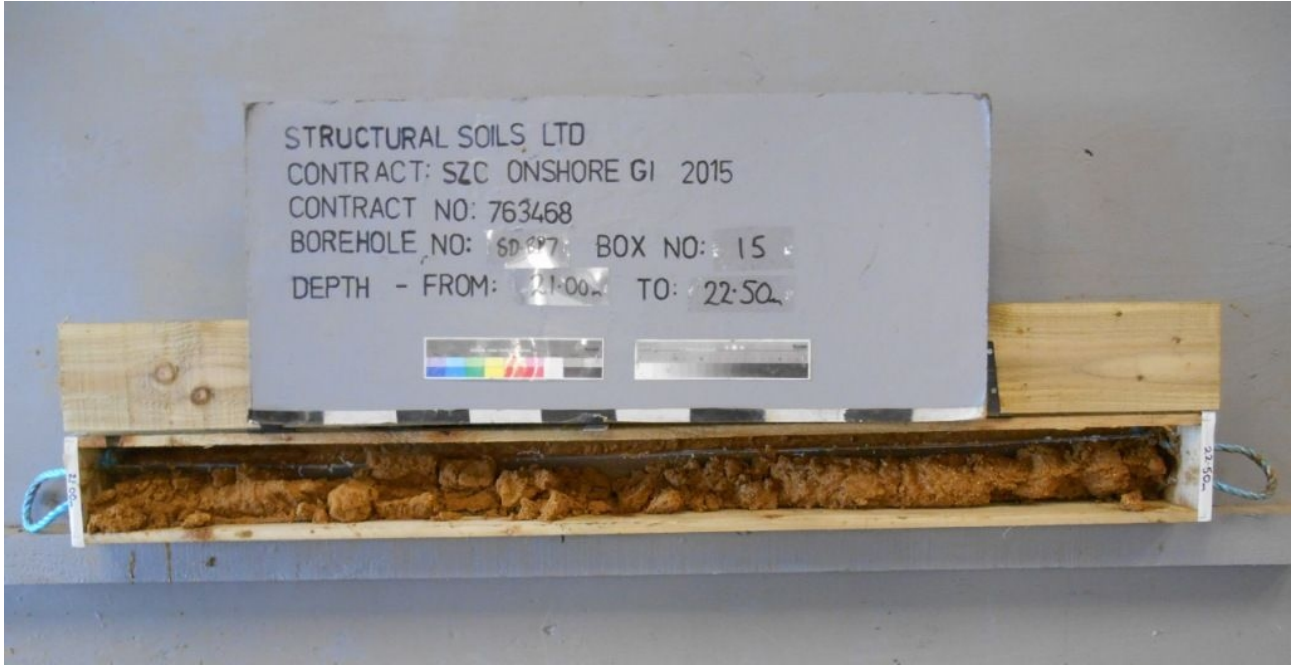
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Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP7
Contract Ref: 763468	Start: 02.09.15 End: 04.09.15	Ground Level (m): 17.23	National Grid Co-ordinate: E:645326.2 N:265150.7	Sheet: 11 of 12

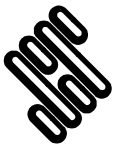
Core Box 15



Core Box 16

GINT LIBRARY v8.05.GI.B LibVersion: v8.05 - Lib0004 ProjVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log SONIC DRILLING LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 14:42 | SH. Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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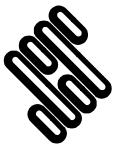
Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP7
Contract Ref: 763468	Start: 02.09.15 End: 04.09.15	Ground Level (m): 17.23	National Grid Co-ordinate: E:645326.2 N:265150.7	Sheet: 12 of 12

Core Box 17



GINT LIBRARY v8.05.GLB.LibVersion: v8.05 - Lib0004 ProjVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log SONIC DRILLING LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 14:42 | SH.
Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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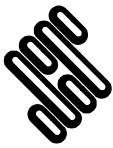
Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP8
Contract Ref: 763468	Start: 07.09.15 End: 09.09.15	Ground Level (m): 15.66	National Grid Co-ordinate: E:645579.6 N:265036.2	Sheet: 1 of 12

Depth (m)	Samples & Testing			Mechanical Log				Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
	No	Type	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)					
0.20-0.60	1	B								Firm reddish brown sandy slightly gravelly CLAY TOPSOIL with baked crust at surface. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse quartzite and flint.	0.20	
0.60-1.20	2	B								Reddish brown clayey slightly gravelly SAND. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse quartzite and flint.	0.60	
										Reddish brown silty slightly gravelly SAND. Sand is fine to medium. Gravel is subangular to subrounded fine to coarse quartzite and flint.	(0.90)	
										Buff silty SAND. Sand is fine to medium.	1.50	
										... 3.00m-3.30m, light brown and brown with rare subrounded fine to coarse flint and quartzite sandy and coarse sand sized shell fragments.	(3.36)	
										... 4.50m-4.86m, sand is fine to coarse.	4.86	
										Buff silty slightly gravelly SAND. Sand is fine to coarse. Gravel is subrounded fine to coarse quartzite and flint.	(1.14)	
										... 5.50m-5.80m, gravel absent.	6.00	
										... 5.80m-6.00m, buff to light brown.	(2.05)	
										Brown silty SAND. Sand is fine to medium. Rare medium to coarse sand sized shell fragments.	8.05	
										... 7.70m-8.00m, fine to coarse.	8.52	
										Reddish brown silty SAND. Sand is fine to coarse.	(0.68)	
										<i>Description on next sheet</i>		

GINT LIBRARY v8.05 - Lib0004 ProjVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log SONIC DRILLING LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 14:42 | SH. Structural Soils Ltd, Branch Office - Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.structurals.com, Email: ask@structurals.com

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth
07/09/15	18:15	6.00	6.00	114	5.20
08/09/15	09:00	6.00	6.00	114	Dry
08/09/15	16:45	25.50	25.50	114	8.10
09/09/15	08:00	25.50	25.50	114	9.28

General Remarks	
1. Hand dug inspection pit to 1.20m. 2. 114.30mm diameter rotary-vibratory core barrell used in conjunction with semi-rigid U86 plastic liner. 3. Water added to aid drilling process. 4. Installed with 50mm standpipe piezometer on completion. Response Zone between 8.00 and 25.50m depth.	
All dimensions in metres	Scale: 1:50
Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic
Drilled By: DR	Logged By: AJones
Checked By: CSM	



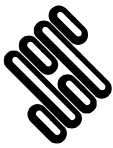
Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP8
Contract Ref: 763468	Start: 07.09.15 End: 09.09.15	Ground Level (m): 15.66	National Grid Co-ordinate: E:645579.6 N:265036.2	Sheet: 2 of 12

Depth (m)	Samples & Testing			Mechanical Log				Backfill & Instrumentation	Water	Description of Strata	Depth (Thick-ness)	Material Graphic Legend
	No	Type	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)					
										Buff silty slightly gravelly SAND. Sand is fine to coarse. Gravel is subrounded fine to coarse quartzite and flint. <i>(stratum copied from 8.52m from previous sheet)</i> ... 9.00m-9.20m, orangish brown fine to coarse sand.	9.20	
										Buff with frequent orangish brown strong silty SAND. Sand is fine to coarse. ... below 9.70m, orangish brown staining absent. Sand is fine. ... below 10.60m, occasional orange brown staining. Sand is fine to coarse.	(2.30)	
										... below 11.30m, 1 no. subrounded coarse gravel of quartzite.	11.50	
										Reddish brown silty SAND. Sand is fine to medium. ... 11.52m-11.70m, thickly laminated with brown and orangish brown clayey sand. ... at 11.65m, pocket of orange brown clay.	(2.00)	
										... at 12.70m, 2 no. subrounded coarse quartzite gravels.	13.50	
										Light brown silty SAND. Sand is fine to medium. Rare coarse sand sized shell fragments.		
										... below 14.50m, frequent shell fragments. Slightly gravelly. Gravel is subrounded fine to medium quartzite.	(2.68)	
										Reddish brown silty SAND. Sand is fine to medium. Rare coarse sand sized shell fragments.	16.18	
										... at 17.10m, pocket of reddish brown clay.		

GINT LIBRARY v8.05.GLB LibVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log SONIC DRILLING LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 14:42 | SH. Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Boring Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks	
All dimensions in metres	
Scale:	1:50
Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic
Drilled By: DR	Logged By: AJones
Checked By: CM	



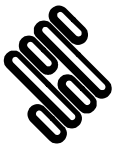
Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP8
Contract Ref: 763468	Start: 07.09.15 End: 09.09.15	Ground Level (m): 15.66	National Grid Co-ordinate: E:645579.6 N:265036.2	Sheet: 3 of 12

Depth (m)	Samples & Testing			Mechanical Log				Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
	No	Type	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)					
										Reddish brown silty SAND. Sand is fine to medium. Rare coarse sand sized shell fragments. (stratum copied from 16.18m from previous sheet) ... 18.00m-19.00m, shells absent. ... 18.80m-18.90m, orangish brown.	(6.92)	
										... 20.12m-20.55m, sand is fine. ... below 20.30m, brown. ... 20.44m-20.63m, brown clay. ... 21.00m-22.00m, AZCL.	23.10	
										Dark reddish brown silty SAND. Sand is fine to medium with much coarse sand sized shell fragments. Occasional bands of brown sandy clay.	(0.90) 24.00	
										Grey with orangish brown staining silty SAND. Sand is fine to coarse with frequent sand sized shell fragments. ... below 24.85m, occasional coarse tableted mudstone gravel. ... at 25.10m, band of brown tableted mudstone gravels. below 25.10m, sand is fine. Borehole terminated at 25.50m depth.	(1.50) 25.50	

GINT LIBRARY v8.05.GLB LibVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log SONIC DRILLING LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 14:42 | SH. Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

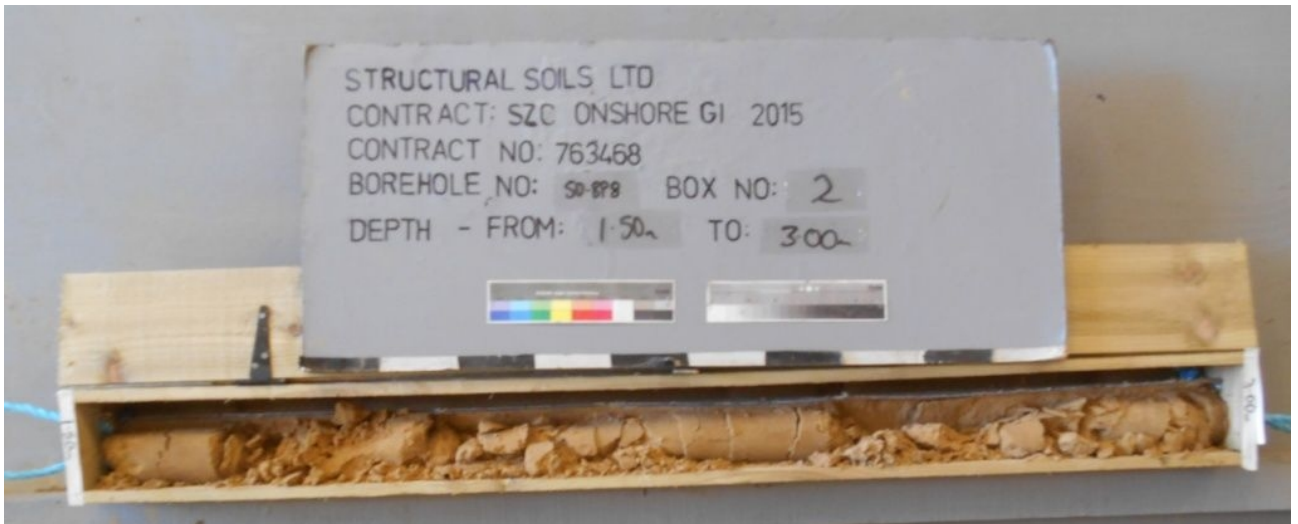
Boring Progress and Water Observations						General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	
						All dimensions in metres Scale: 1:50

Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: CSM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP8
Contract Ref: 763468	Start: 07.09.15 End: 09.09.15	Ground Level (m): 15.66	National Grid Co-ordinate: E:645579.6 N:265036.2	Sheet: 4 of 12

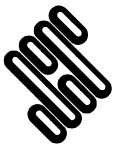
Core Box 1



Core Box 2

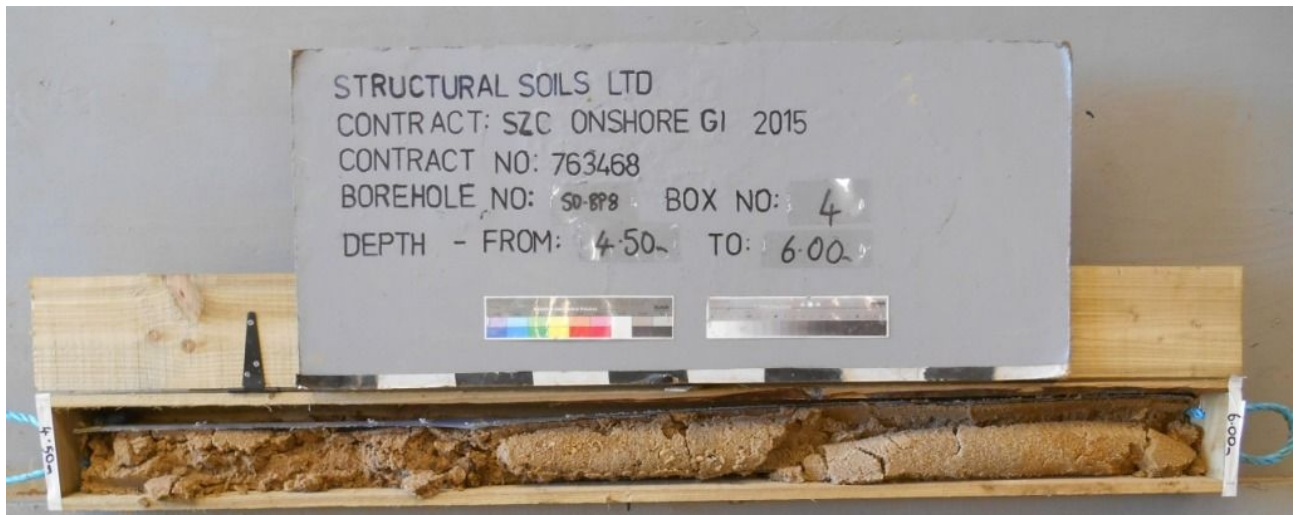
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Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP8
Contract Ref: 763468	Start: 07.09.15 End: 09.09.15	Ground Level (m): 15.66	National Grid Co-ordinate: E:645579.6 N:265036.2	Sheet: 5 of 12

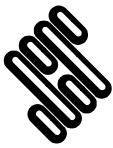
Core Box 3



Core Box 4

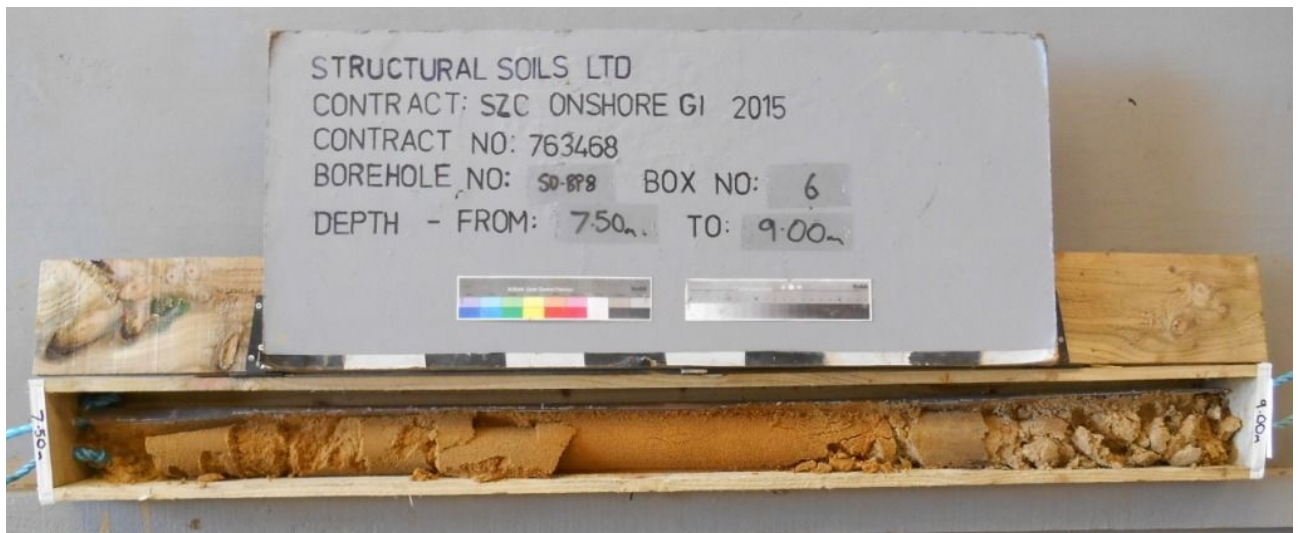
GINT LIBRARY v8.05.GI.B Lib Version: v8.05 - Lib0004 Proj Version: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log SONIC DRILLING LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 14:42 | SH. Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP8
Contract Ref: 763468	Start: 07.09.15 End: 09.09.15	Ground Level (m): 15.66	National Grid Co-ordinate: E:645579.6 N:265036.2	Sheet: 6 of 12

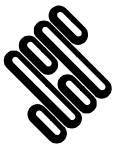
Core Box 5



Core Box 6

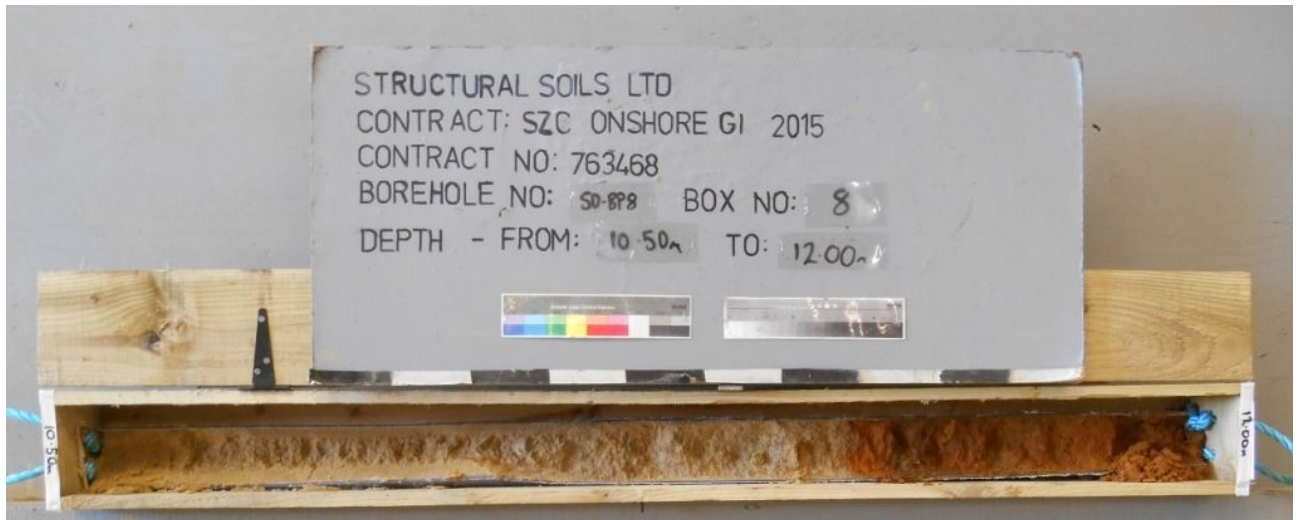
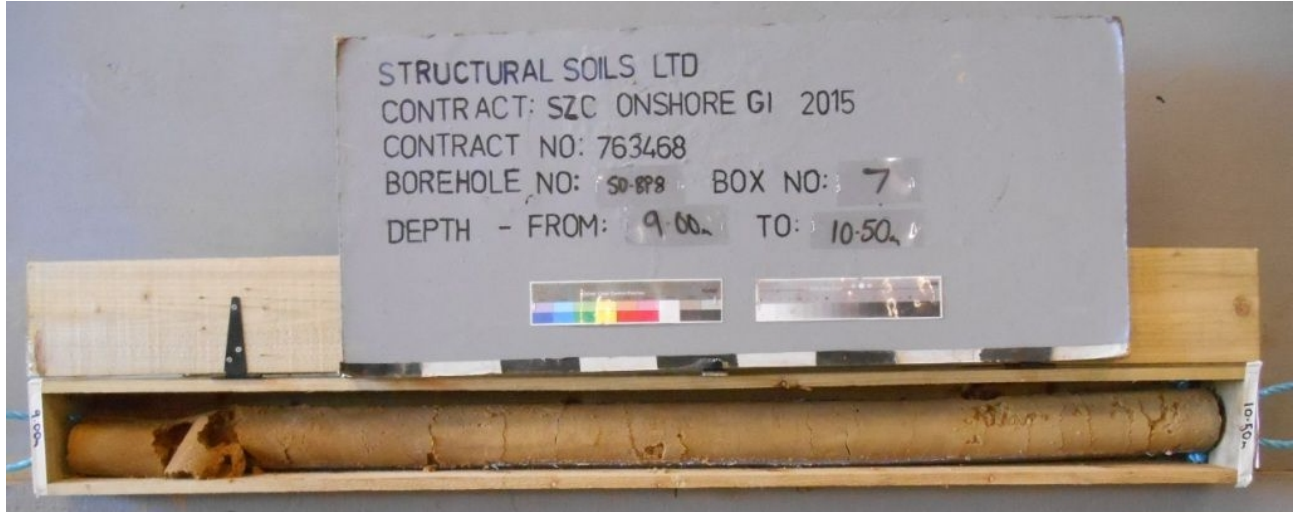
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Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP8
Contract Ref: 763468	Start: 07.09.15 End: 09.09.15	Ground Level (m): 15.66	National Grid Co-ordinate: E:645579.6 N:265036.2	Sheet: 7 of 12

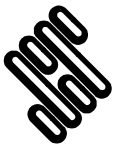
Core Box 7



Core Box 8

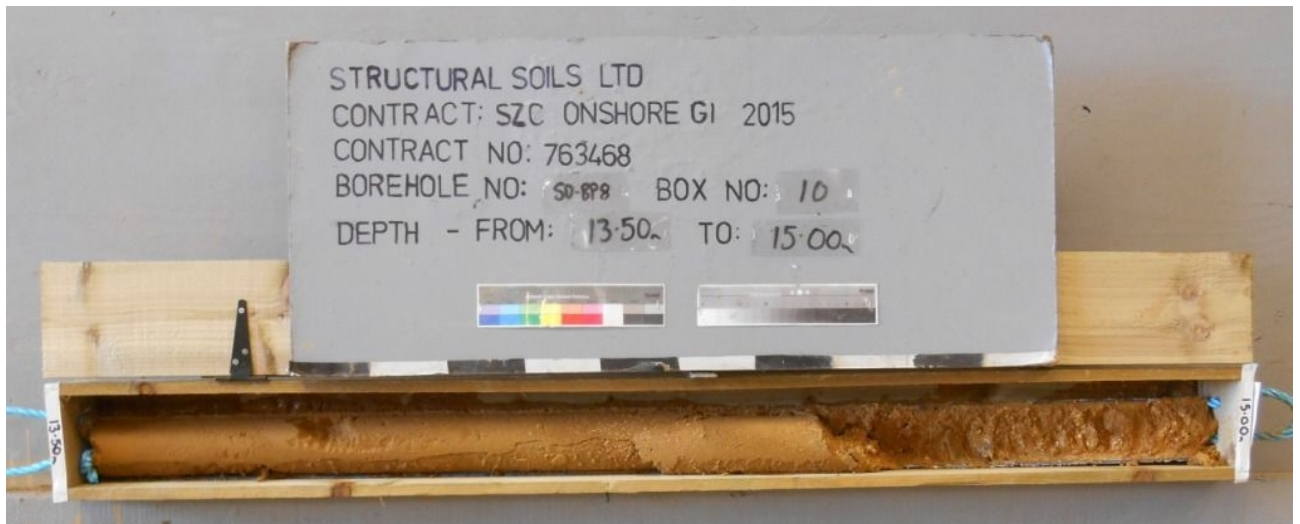
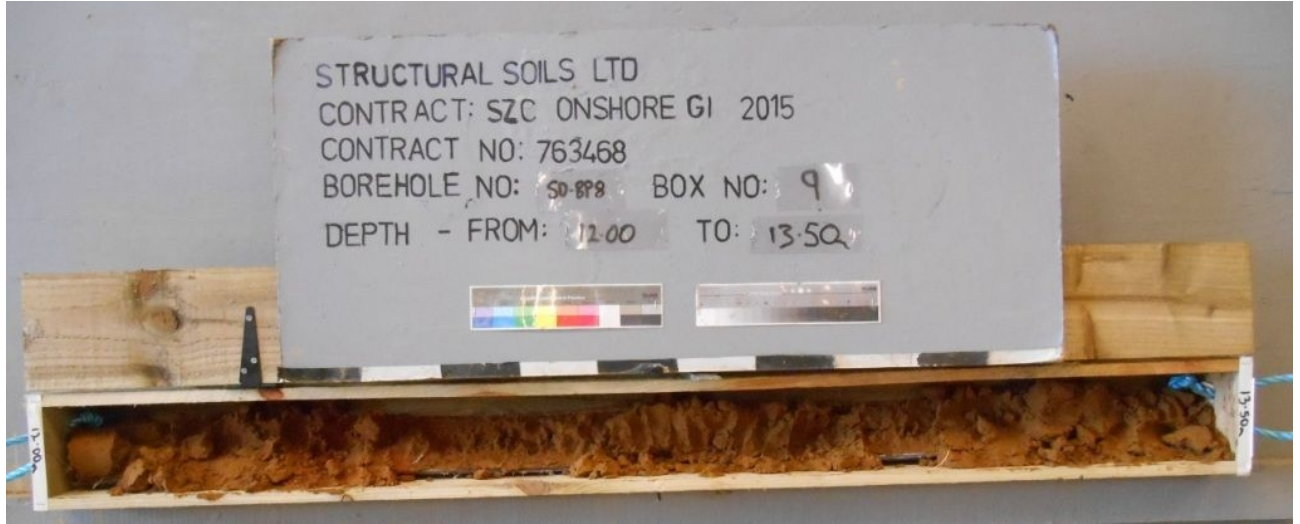
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Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP8
Contract Ref: 763468	Start: 07.09.15 End: 09.09.15	Ground Level (m): 15.66	National Grid Co-ordinate: E:645579.6 N:265036.2	Sheet: 8 of 12

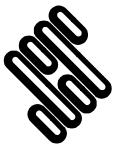
Core Box 9



Core Box 10

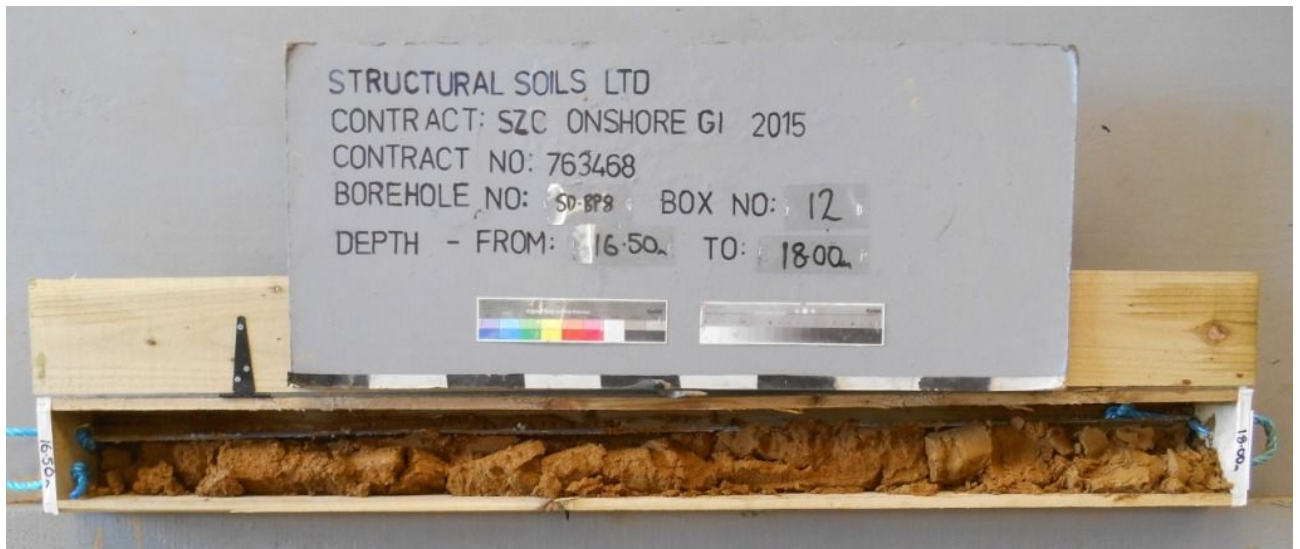
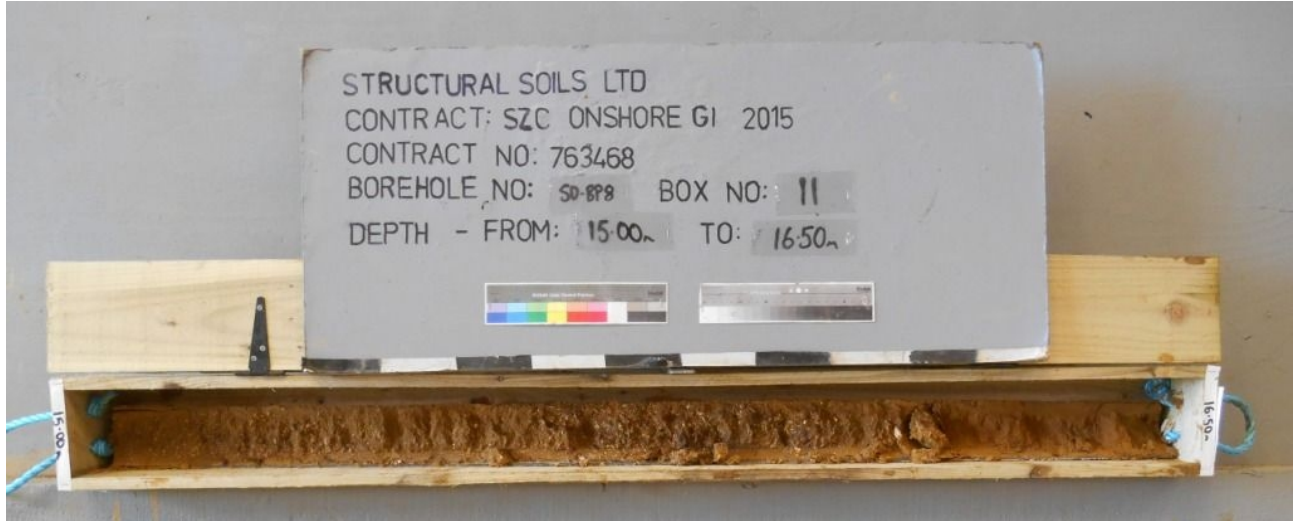
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Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP8
Contract Ref: 763468	Start: 07.09.15 End: 09.09.15	Ground Level (m): 15.66	National Grid Co-ordinate: E:645579.6 N:265036.2	Sheet: 9 of 12

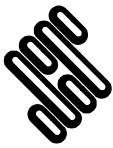
Core Box 11



Core Box 12

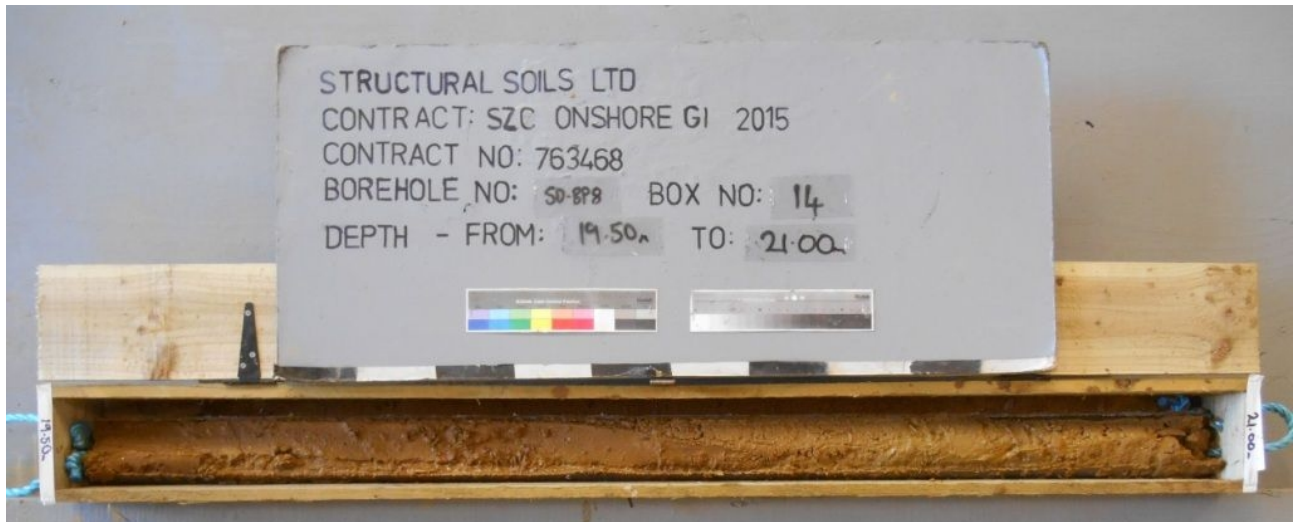
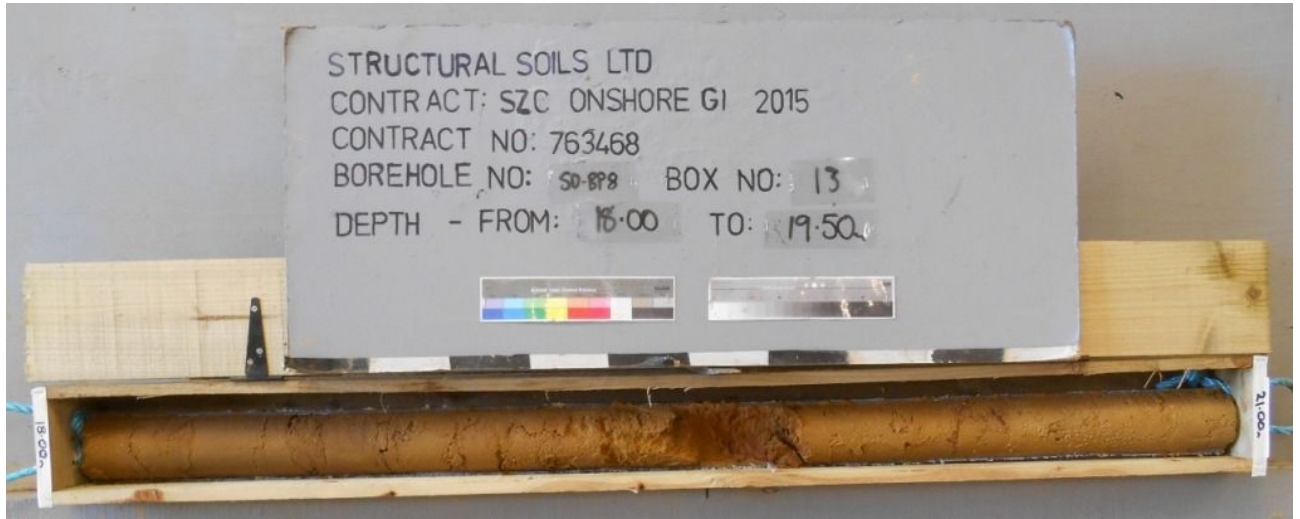
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Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP8
Contract Ref: 763468	Start: 07.09.15 End: 09.09.15	Ground Level (m): 15.66	National Grid Co-ordinate: E:645579.6 N:265036.2	Sheet: 10 of 12

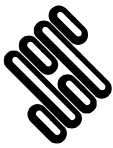
Core Box 13



Core Box 14

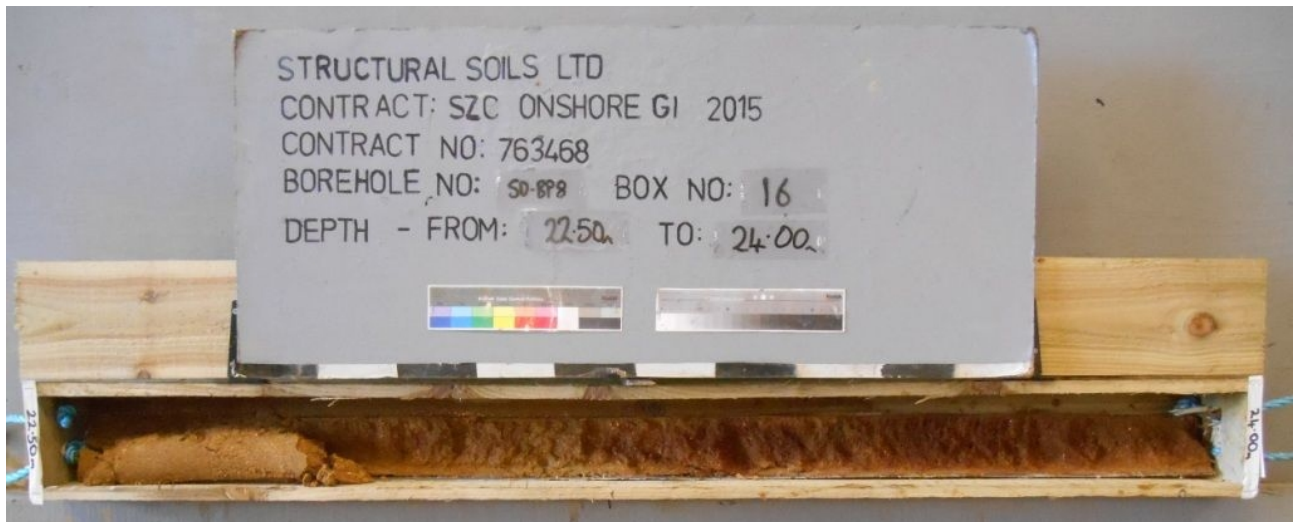
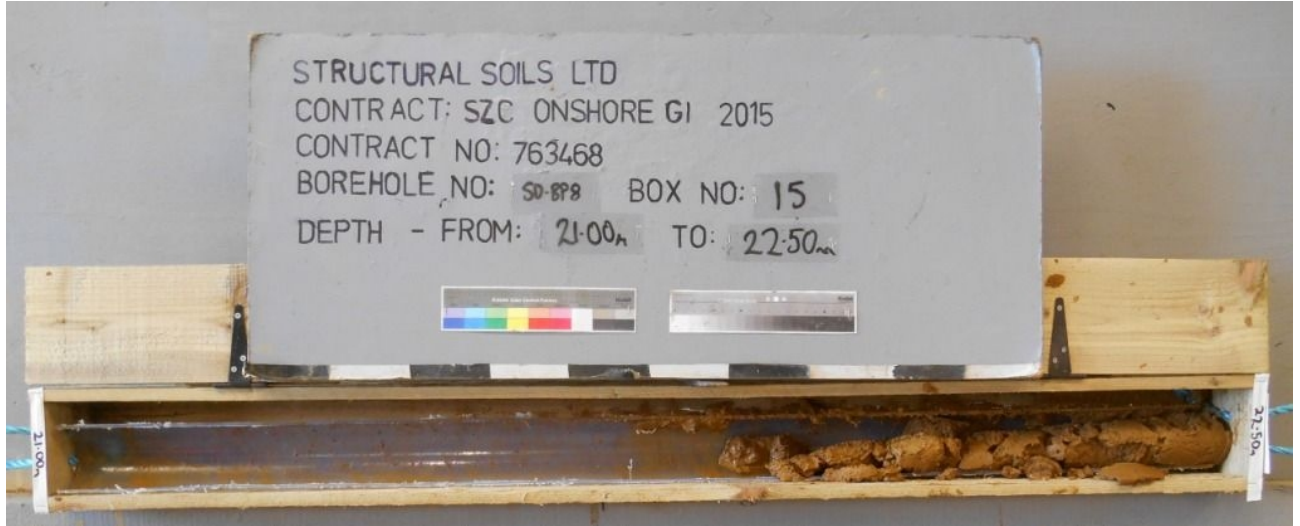
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Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP8
Contract Ref: 763468	Start: 07.09.15 End: 09.09.15	Ground Level (m): 15.66	National Grid Co-ordinate: E:645579.6 N:265036.2	Sheet: 11 of 12

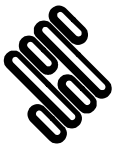
Core Box 15



Core Box 16

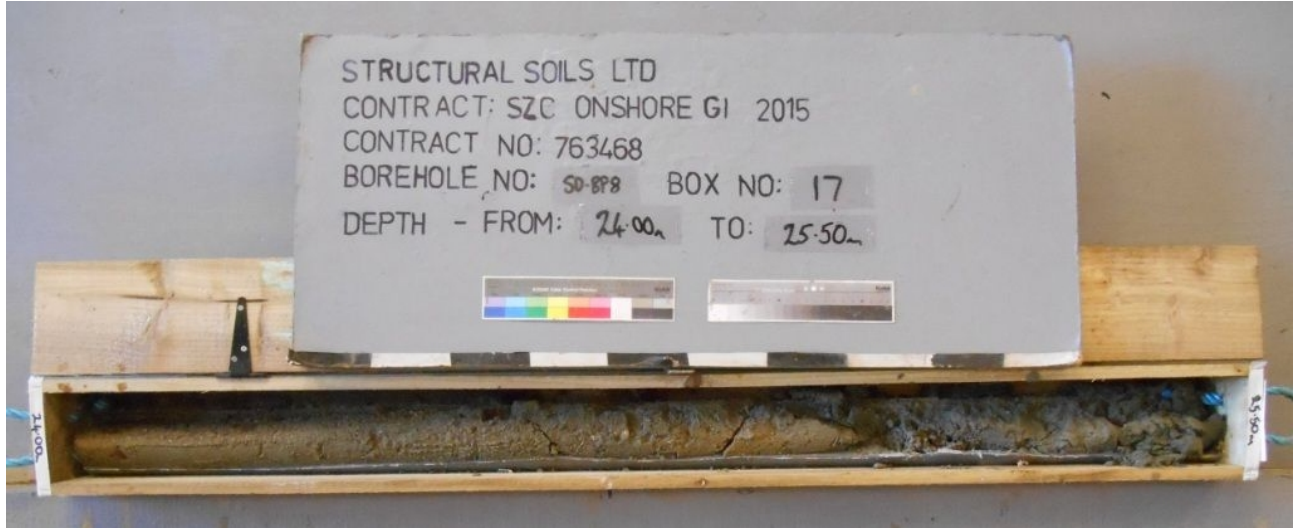
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Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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Contract: SZC 2015 Onshore GI		Client: NNB GenCo		Borehole: SD-BP8
Contract Ref: 763468	Start: 07.09.15 End: 09.09.15	Ground Level (m): 15.66	National Grid Co-ordinate: E:645579.6 N:265036.2	Sheet: 12 of 12

Core Box 17



GINT LIBRARY v8.05.GLB.LibVersion: v8.05 - Lib0004 ProjVersion: v8.05 - Core+Logs+Geotech Lab-Bristol - 0003 | Log SONIC DRILLING LOG | 763468 - SZC 2015 ONSHORE GI.GPJ - v8.05 | 30/10/15 - 14:42 | SH.
Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

Method Used: Sonic Drilling	Plant Used: Boart Longyear DB320 Sonic	Drilled By: DR	Logged By: AJones	Checked By: COM	
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APPENDIX C

- (v) Soakaway Test Results
- (vi) Permeability Test Results

FULL SCALE SOAKAWAY TEST

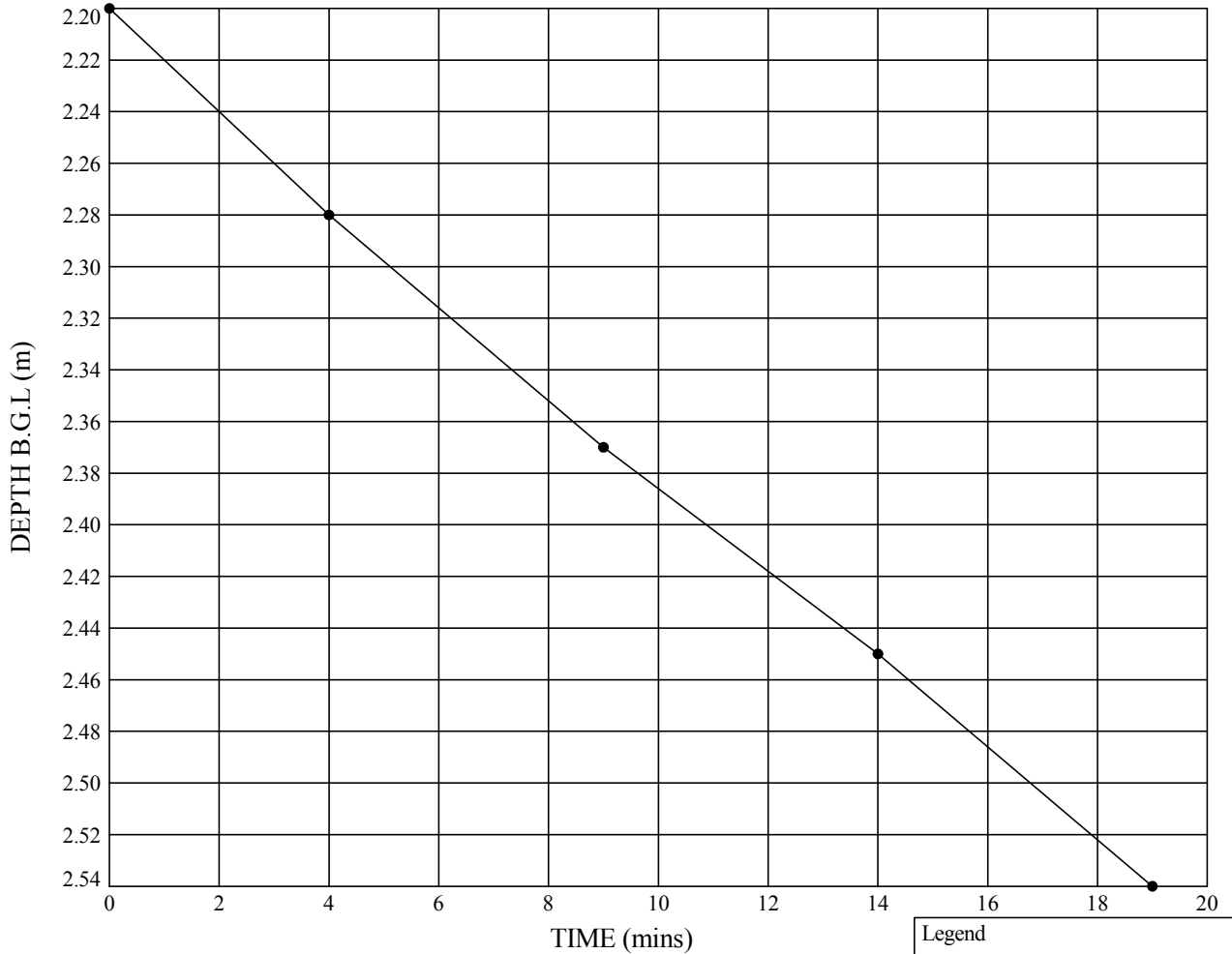
In accordance with BRE Digest 365

Soakaway Test - Position ID : **WMZ18**

Ground Level (m): **10.88**

National Grid Co-ordinates: **E:645639.6 N:265638.0**

PLOT OF DEPTH OF WATER BELOW GROUND LEVEL AGAINST TIME



Pit start depth = 3.5 m
 Pit final depth = 2.56 m
 Effective depth, D_e = 0.36 m
 Effective storage volume, V_{p75-25} = 0.1836 m³
 Surface area, a_{p50} = 1.8480 m²
 Time, t_{p75-25} = 634 secs
 Infiltration rate, f = 1.57×10^{-4} m/s

Legend

● Test 1 (15.07.15)

Plan (Not to scale)

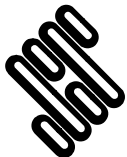
← 1.70 →

0.60 ↑

↓

No Bearing Taken

Approved Signatories: M. ATHORNE M. DOLBY M. FISHER



STRUCTURAL SOILS
 The Potteries
 Pottery Street
 Castleford
 W. Yorkshire WF10 1NJ

Compiled By	Date	Checked By	Date
[REDACTED]	07/09/15		
Contract		Contract Ref:	
SZC 2015 Onshore GI		763468	

NOT FINAL
NOT FINAL
NOT FINAL
Test No. 1

FULL SCALE SOAKAWAY TEST

In accordance with BRE Digest 365

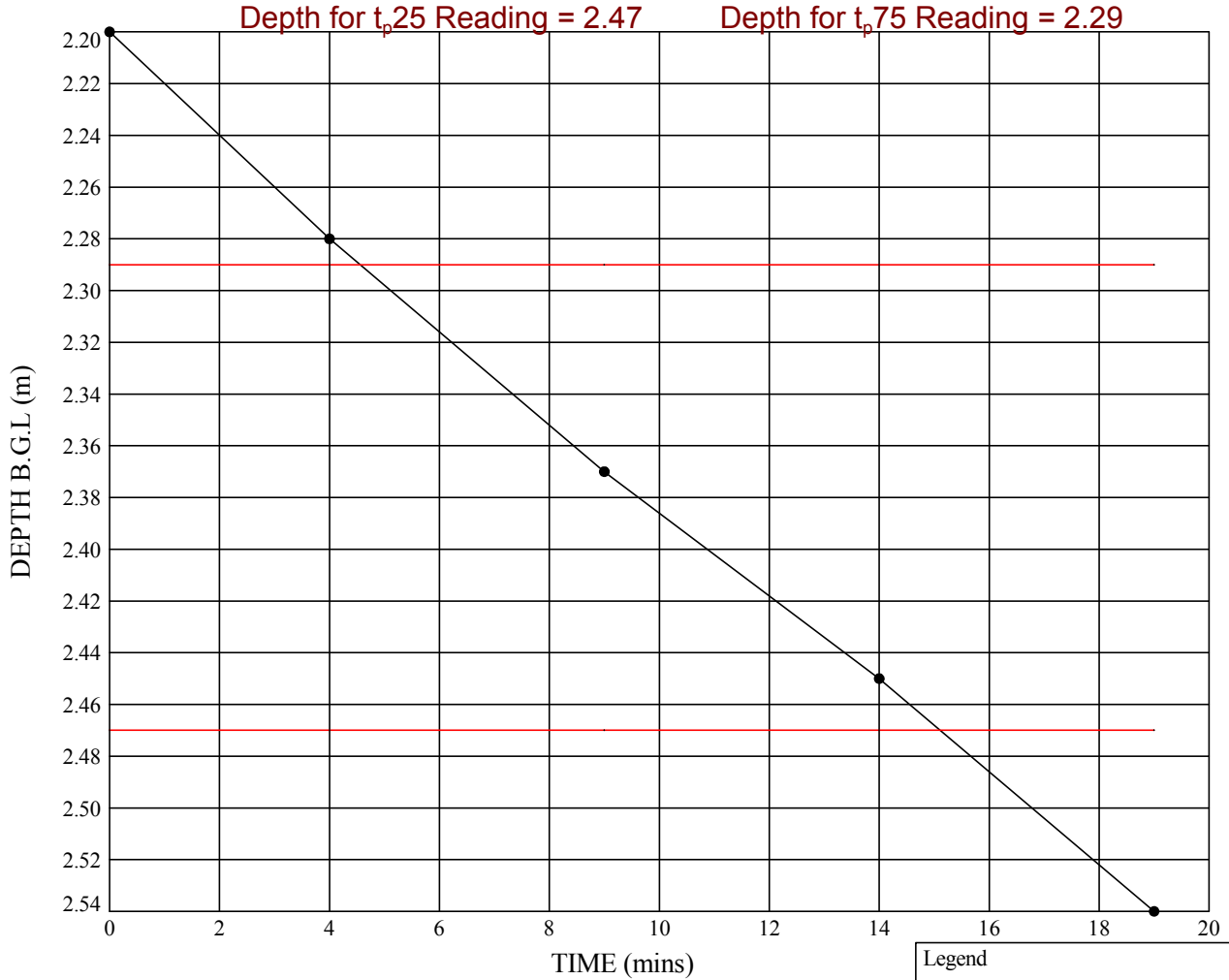
Soakaway Test - Position ID : WMZ18

NOT FINAL
NOT FINAL
NOT FINAL
Test No. 1

Ground Level (m): 10.88

National Grid Co-ordinates: E:645639.6 N:265638.0

Plot of Depth of Water Below Ground Level Against Time



Effective depth, D_e = 0.36 m

Effective storage volume, V_{p75-25} = 0.1836 m³

Surface area, a_{p50} = 1.8480 m²

Time, t_{p75-25} = 634 secs

Infiltration rate, f = 1.57×10^{-4} m/s

Notes : 2000ltr water pumped over 8 mins with 2inch pump.

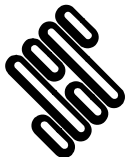
Legend

- Test 1 (15.07.15)

Plan (Not to scale)

No Bearing Taken

Approved Signatories: M. ATHORNE M. DOLBY M. FISHER



STRUCTURAL SOILS
The Potteries
Pottery Street
Castleford
W. Yorkshire WF10 1NJ

Compiled By	Date	Checked By	Date
[Redacted]	07/09/15		
Contract		Contract Ref:	
SZC 2015 Onshore GI		763468	

FULL SCALE SOAKAWAY TEST

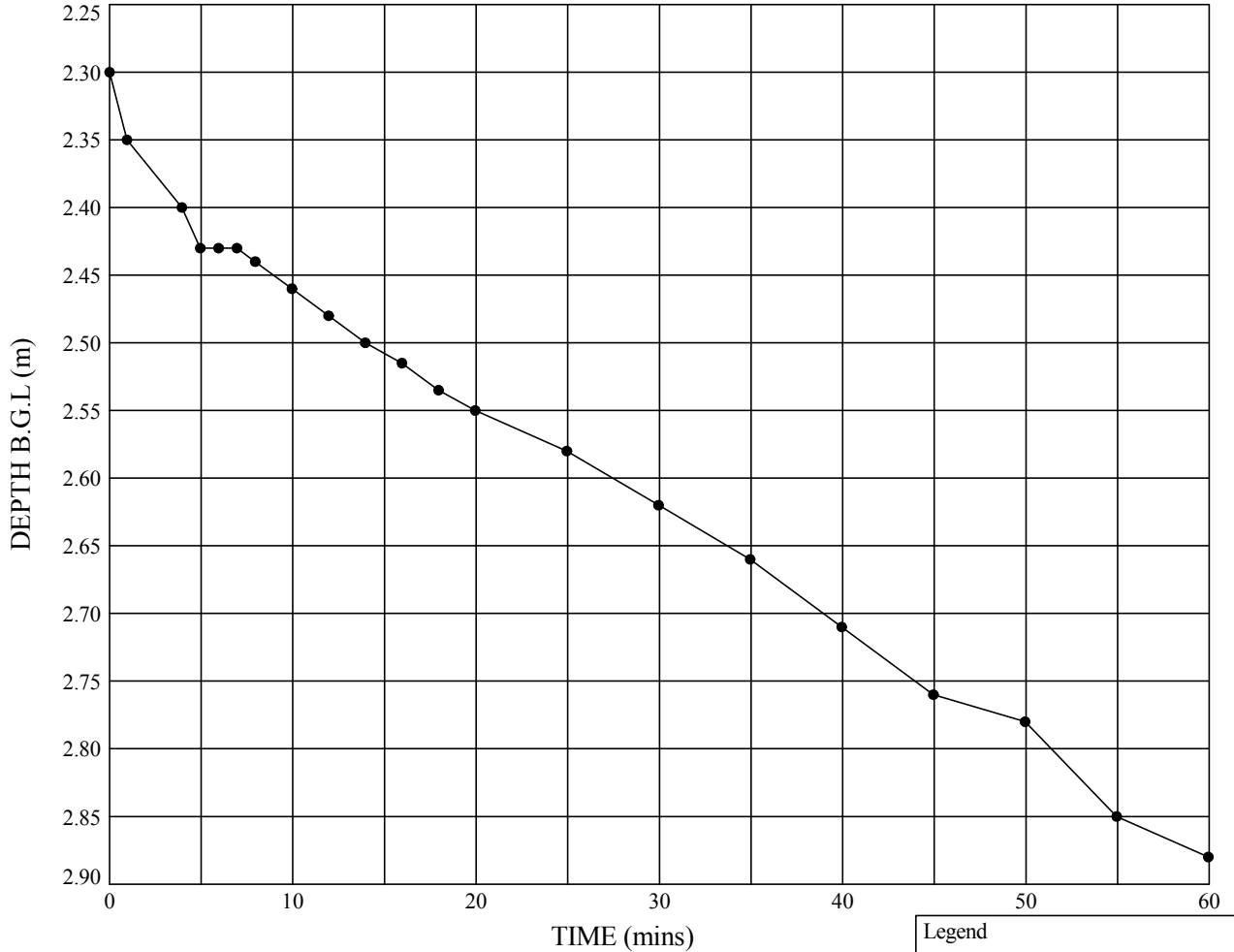
In accordance with BRE Digest 365

Soakaway Test - Position ID : **WMZ19**

Ground Level (m): **12.22**

National Grid Co-ordinates: **E:645240.9 N:263713.4**

PLOT OF DEPTH OF WATER BELOW GROUND LEVEL AGAINST TIME



Pit start depth = 3.5 m
 Pit final depth = 2.97 m
 Effective depth, D_e = 0.67 m
 Effective storage volume, V_{p75-25} = 0.4221 m³
 Surface area, a_{p50} = 3.0690 m²
 Time, t_{p75-25} = 2451 secs
 Infiltration rate, f = 5.61×10^{-5} m/s

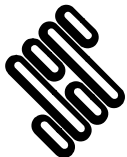
Legend

- Test 1 (16.07.15)

Plan (Not to scale)

No Bearing Taken

Approved Signatories: M. ATHORNE M. DOLBY M. FISHER



STRUCTURAL SOILS
 The Potteries
 Pottery Street
 Castleford
 W. Yorkshire WF10 1NJ

Compiled By	Date	Checked By	Date
[REDACTED]	07/09/15		
Contract		Contract Ref:	
SZC 2015 Onshore GI		763468	

NOT FINAL
NOT FINAL
NOT FINAL
Test No. 1

FULL SCALE SOAKAWAY TEST

In accordance with BRE Digest 365

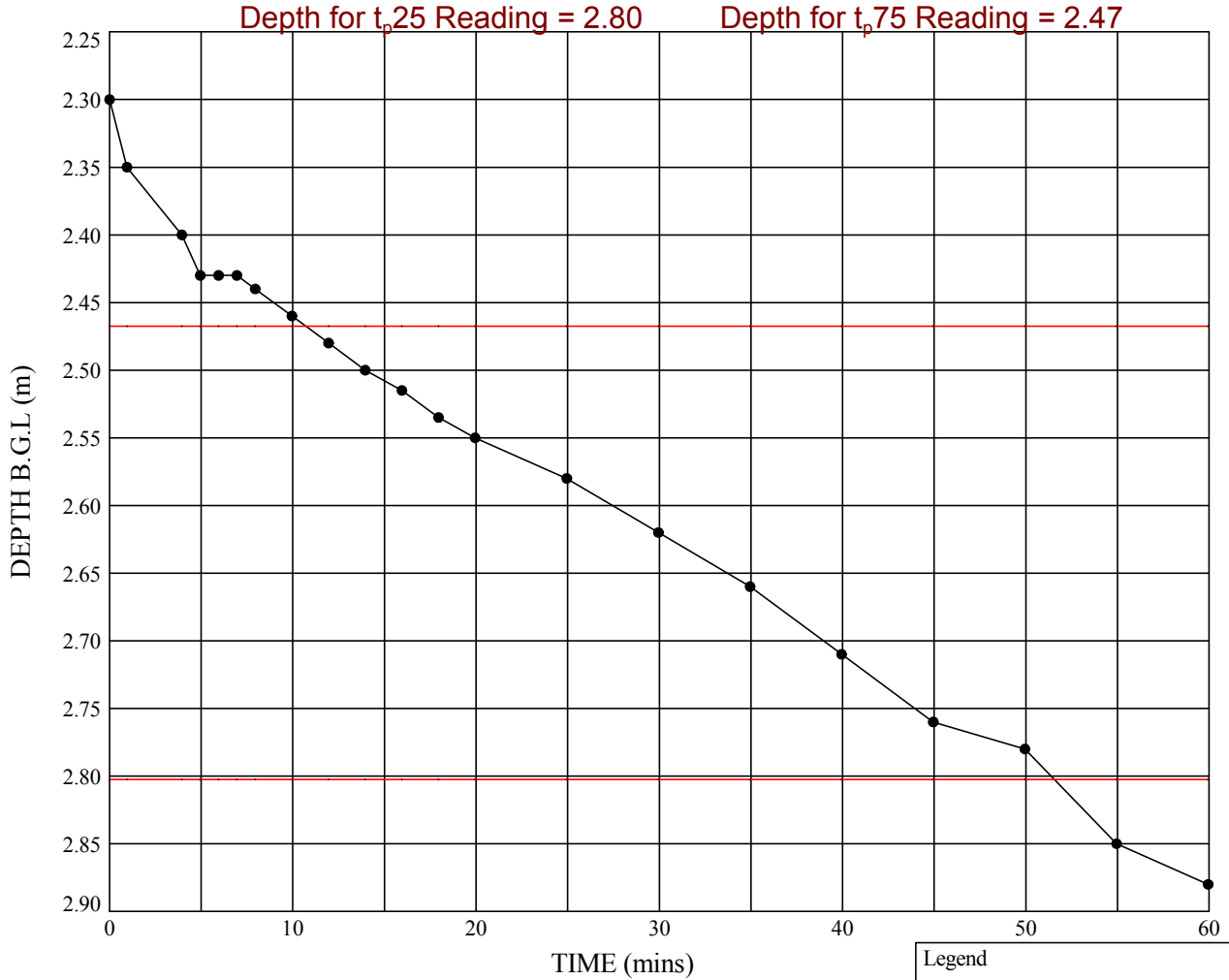
Soakaway Test - Position ID : WMZ19

NOT FINAL
NOT FINAL
NOT FINAL
Test No. 1

Ground Level (m): 12.22

National Grid Co-ordinates: E:645240.9 N:263713.4

Plot of Depth of Water Below Ground Level Against Time



Effective depth, D_e = 0.67 m

Effective storage volume, V_{p75-25} = 0.4221 m³

Surface area, a_{p50} = 3.0690 m²

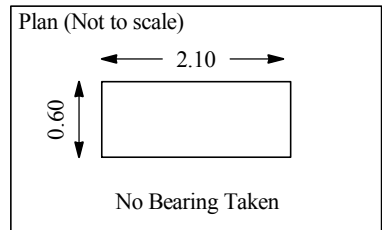
Time, t_{p75-25} = 2451 secs

Infiltration rate, f = 5.61×10^{-5} m/s

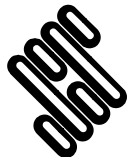
Notes : 2000ltr of water pumped over 10 mins with 2inch pump.

Legend

- Test 1 (16.07.15)



Approved Signatories: M. ATHORNE M. DOLBY M. FISHER



STRUCTURAL SOILS
The Potteries
Pottery Street
Castleford
W. Yorkshire WF10 1NJ

Compiled By	Date	Checked By	Date
[Redacted]	07/09/15		
Contract		Contract Ref:	
SZC 2015 Onshore GI		763468	

FULL SCALE SOAKAWAY TEST

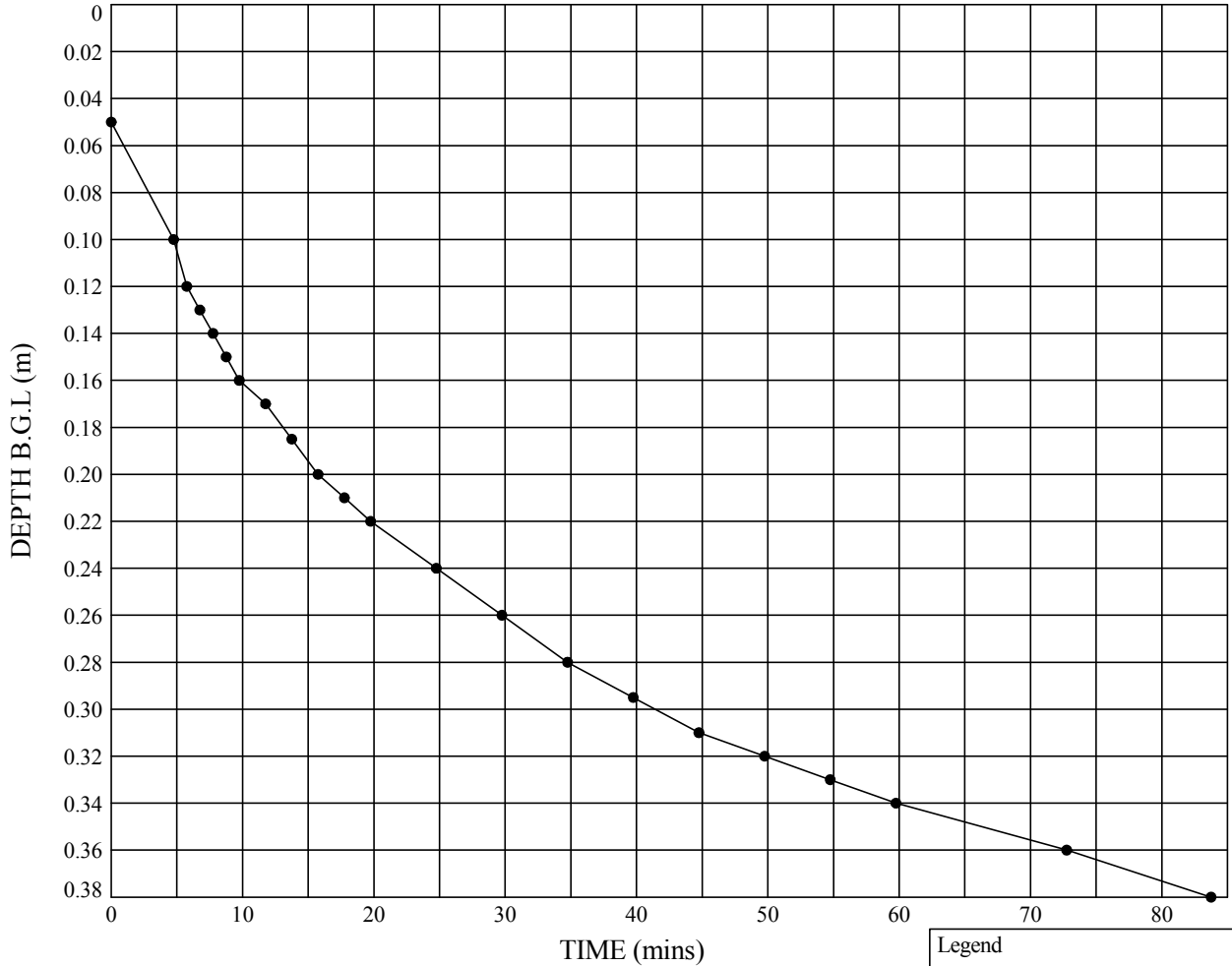
In accordance with BRE Digest 365

Soakaway Test - Position ID : **WMZ20**

Ground Level (m): **2.29**

National Grid Co-ordinates: **E:647095.4 N:264944.3**

Plot of Depth of Water Below Ground Level Against Time



Pit start depth = 1.1 m
 Pit final depth = 1.1 m
 Effective depth, D_e = 1.05 m
 Effective storage volume, V_{p75-25} = 0.8820 m³
 Surface area, a_{p50} = 5.2500 m²
 Time, t_{p75-25} = 20227 secs
 Infiltration rate, f = 8.31×10^{-6} m/s

Legend

- Test 1 (15.07.15)

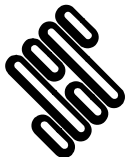
Plan (Not to scale)

2.80

0.60

No Bearing Taken

Approved Signatories: M. ATHORNE M. DOLBY M. FISHER



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NOT FINAL
NOT FINAL
NOT FINAL
Test No. 1

FULL SCALE SOAKAWAY TEST

In accordance with BRE Digest 365

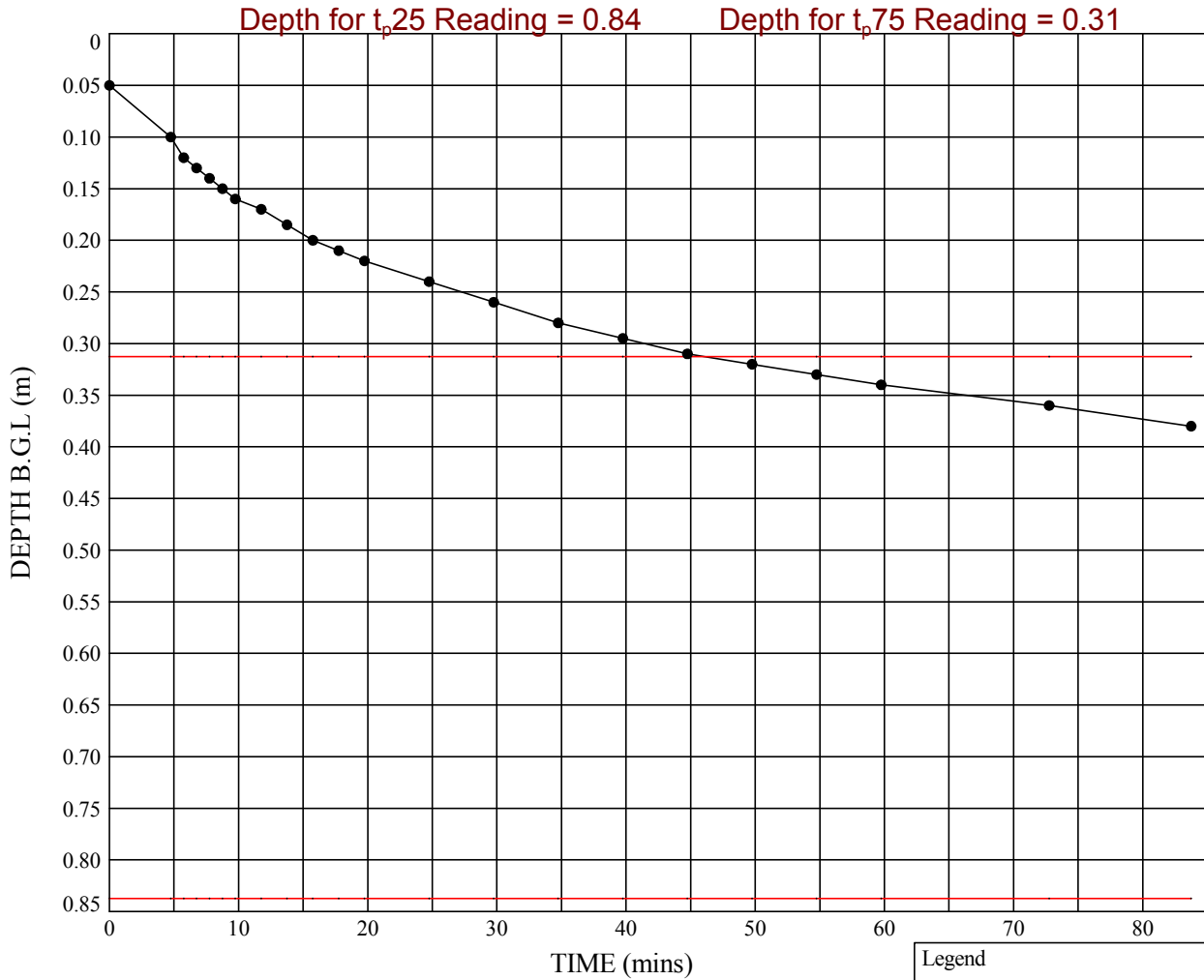
Soakaway Test - Position ID : WMZ20

NOT FINAL
NOT FINAL
NOT FINAL
Test No. 1

Ground Level (m): 2.29

National Grid Co-ordinates: E:647095.4 N:264944.3

Plot of Depth of Water Below Ground Level Against Time



Effective depth, D_e = 1.05 m

Effective storage volume, V_{p75-25} = 0.8820 m³

Surface area, a_{p50} = 5.2500 m²

Time, t_{p75-25} = secs

Infiltration rate, f = m/s

Notes : 1700ltr of water pumped over 5 mins with 2inch pump.

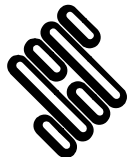
Legend

- Test 1 (15.07.15)

Plan (Not to scale)

No Bearing Taken

Approved Signatories: M. ATHORNE M. DOLBY M. FISHER

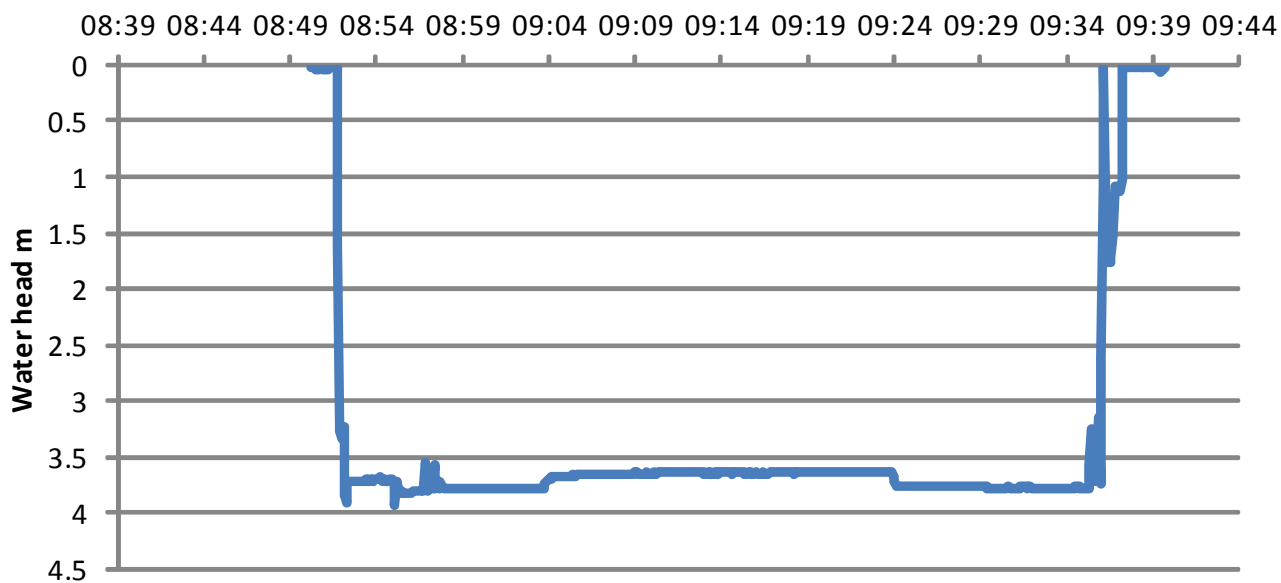


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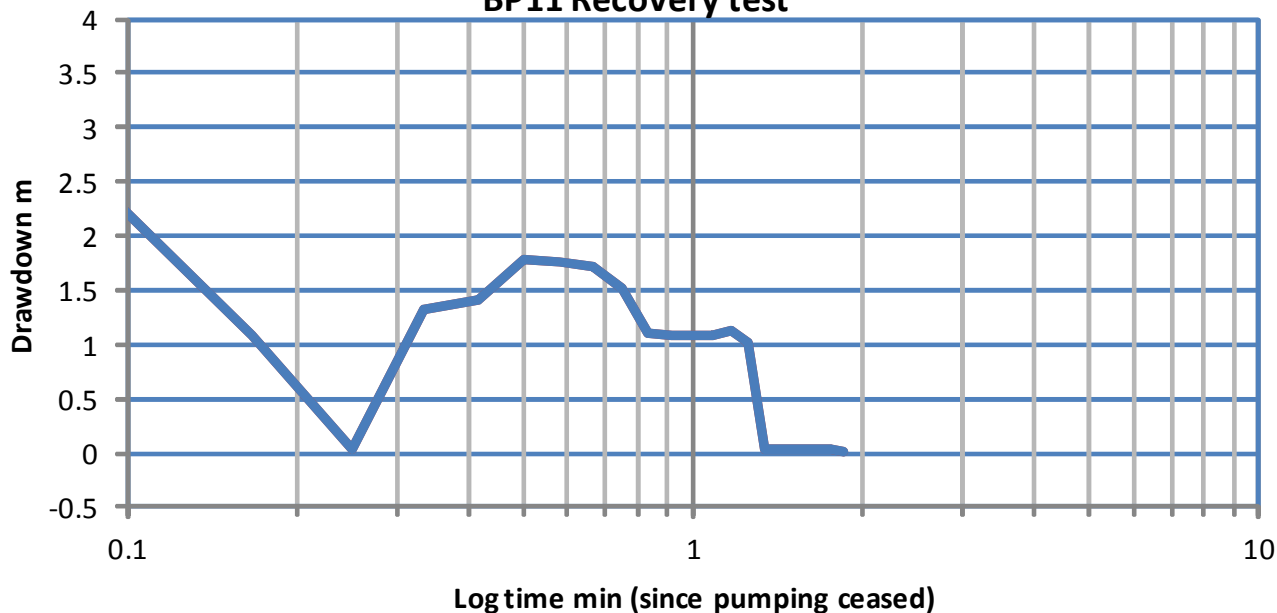
Contract	Compiled By	Date	Checked By	Date
	[Redacted]	07/09/15		
Contract			Contract Ref:	
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Groundwater level pumping out test BP11

Time



BP11 Recovery test



LEGEND



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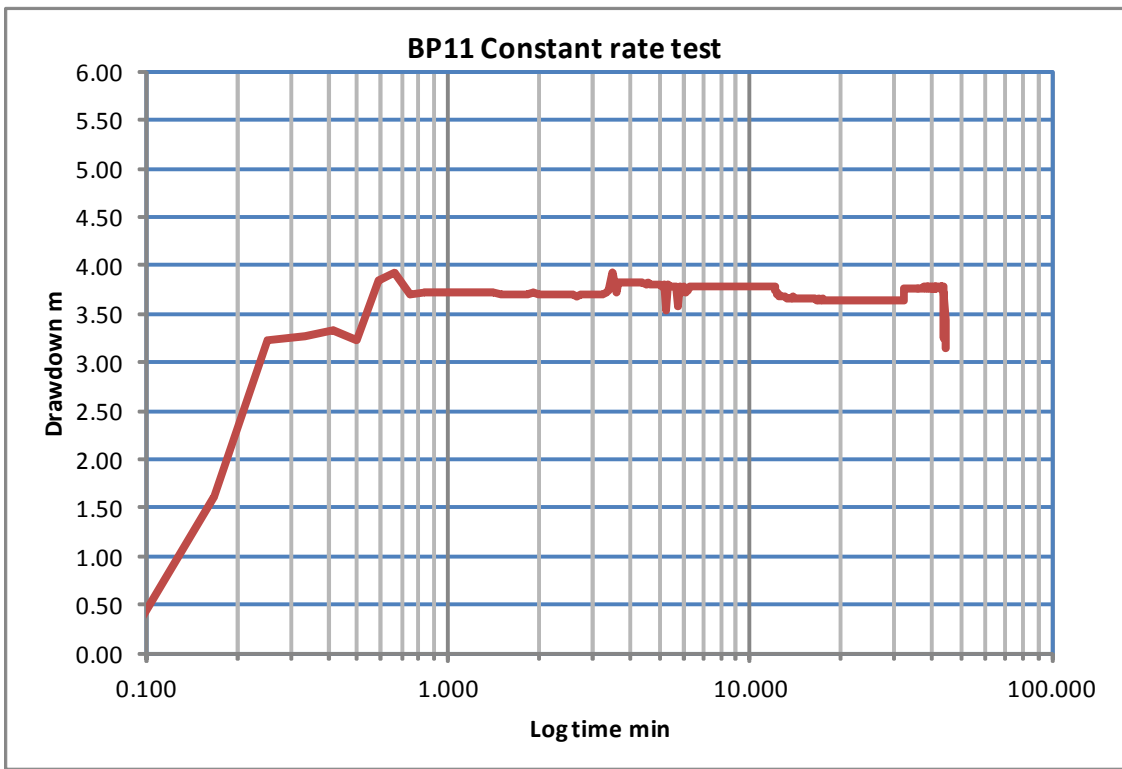
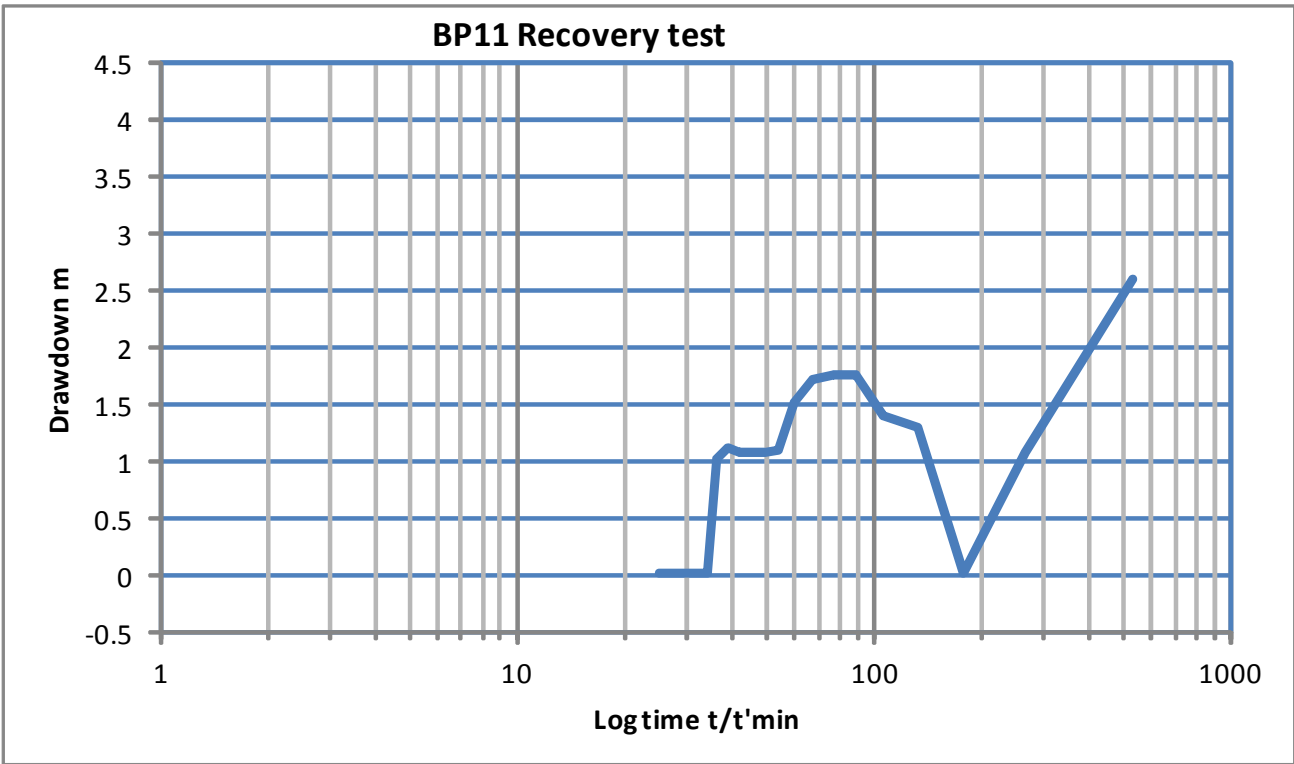
TITLE

Permeability test CPB BP 11

REV	DATE	DESCRIPTION	BY	CHD	APR
00	16.10.2015	-	MW	SH	-

JOB NO	SCALE BAR	ORIGIN SIZE	FIGURE
763468		A4	3a

DIMENSION	SCALE	DRAWING STATUS
m	NTS	-



LEGEND



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TITLE

Permeability test CPB BP 11

REV	DATE	DESCRIPTION	BY	CHD	APR
00	16.10.2015	-	MW	SH	-

DIMENSION	SCALE	DRAWING STATUS
m	NTS	-

JOB NO

763468

SCALE BAR

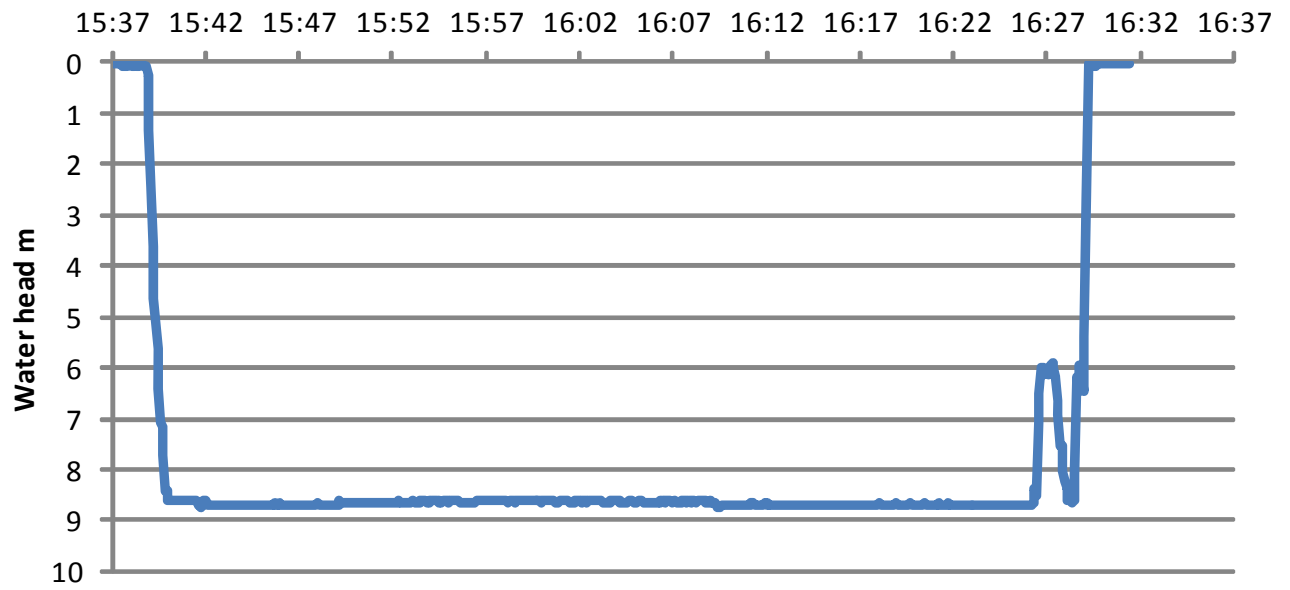
ORIGIN SIZE

A4

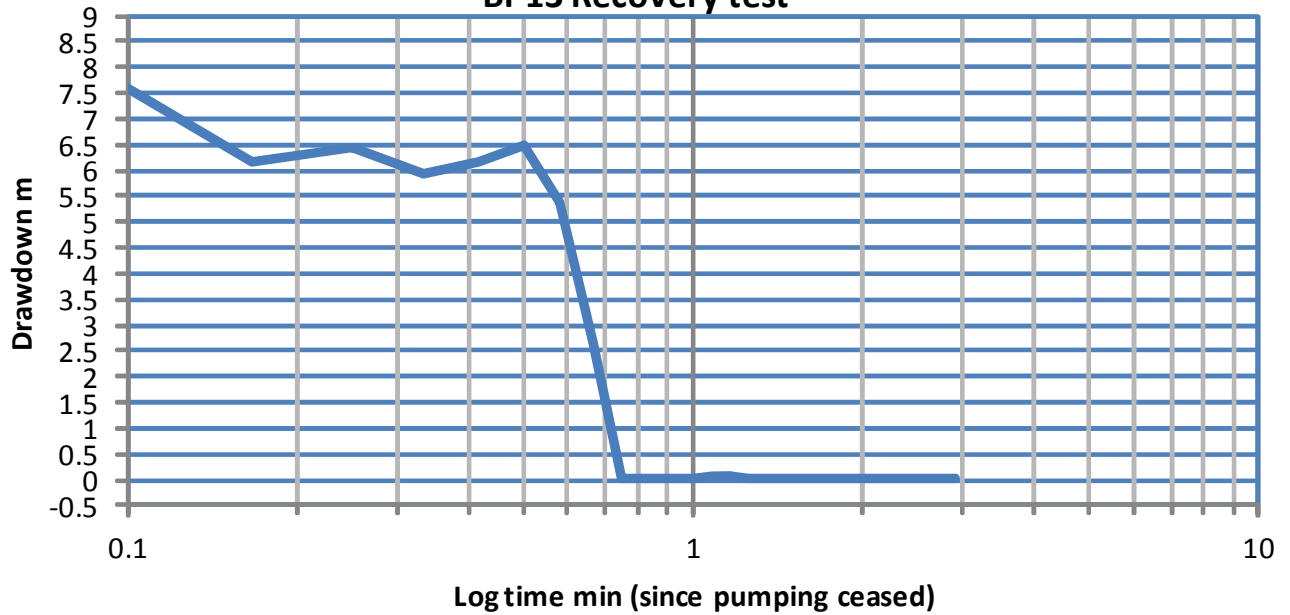
FIGURE

3b

Groundwater level pumping out test BP13



BP13 Recovery test



LEGEND



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TITLE

Permeability test CPB BP 13

REV	DATE	DESCRIPTION	BY	CHD	APR
00	16.10.2015	-	MW	SH	-

DIMENSION	SCALE	DRAWING STATUS
m	NTS	-

JOB NO

763468

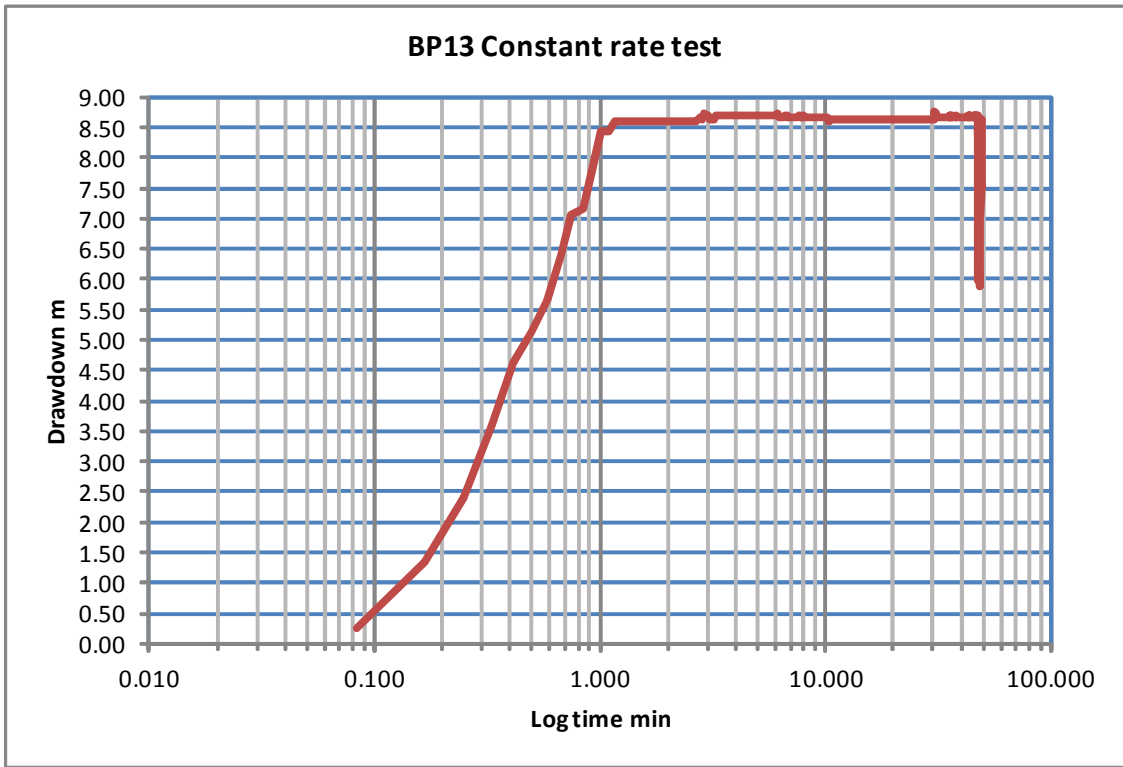
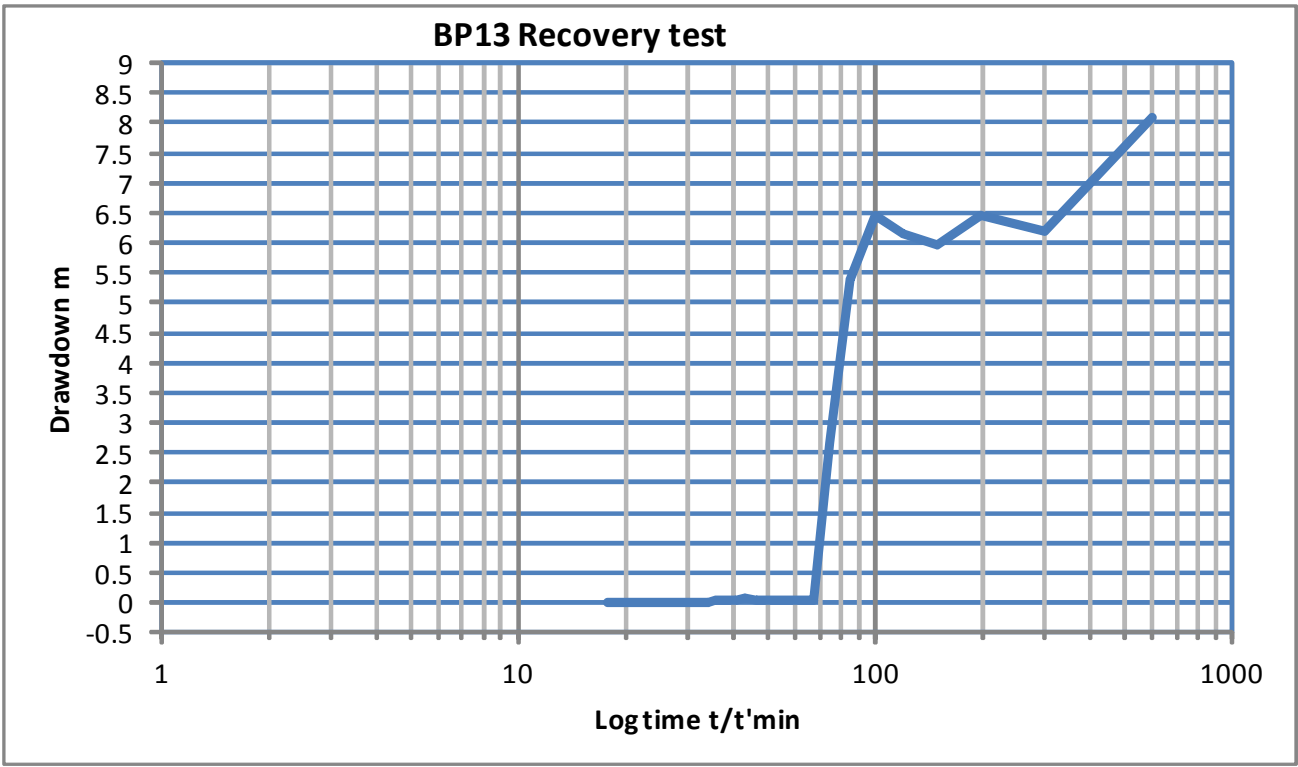
SCALE BAR

ORIGIN SIZE

A4

FIGURE

4a



LEGEND



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TITLE

Permeability test CPB BP 13

REV	DATE	DESCRIPTION	BY	CHD	APR
00	16.10.2015	-	MW	SH	-

DIMENSION	SCALE	DRAWING STATUS
m	NTS	-

JOB NO

763468

SCALE BAR

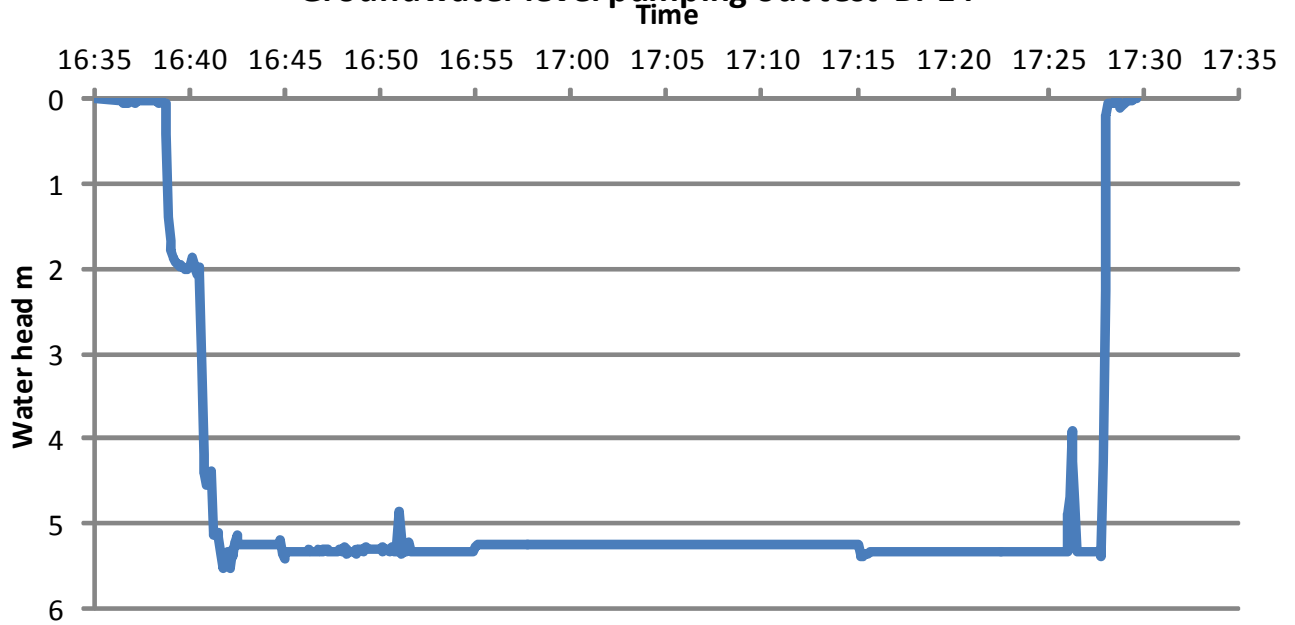
ORIGIN SIZE

A4

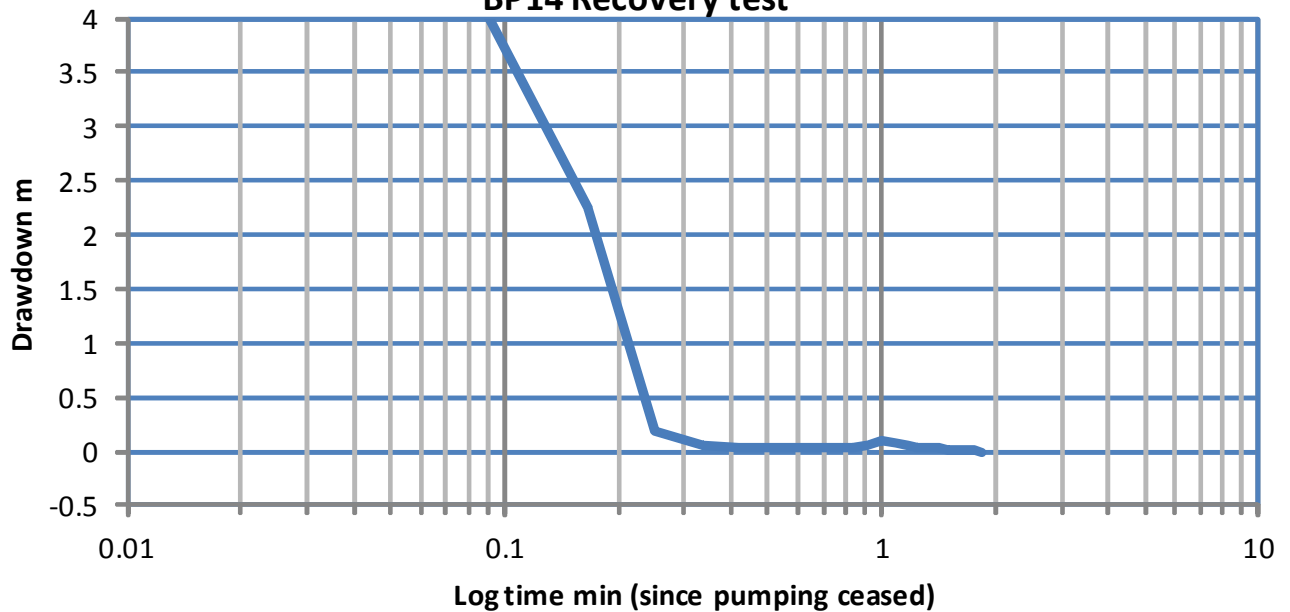
FIGURE

4b

Groundwater level pumping out test BP14



BP14 Recovery test



LEGEND



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TITLE

Permeability test CPB BP 13

REV	DATE	DESCRIPTION	BY	CHD	APR
00	16.10.2015	-	MW	SH	-

DIMENSION	SCALE	DRAWING STATUS
m	NTS	-

JOB NO

763468

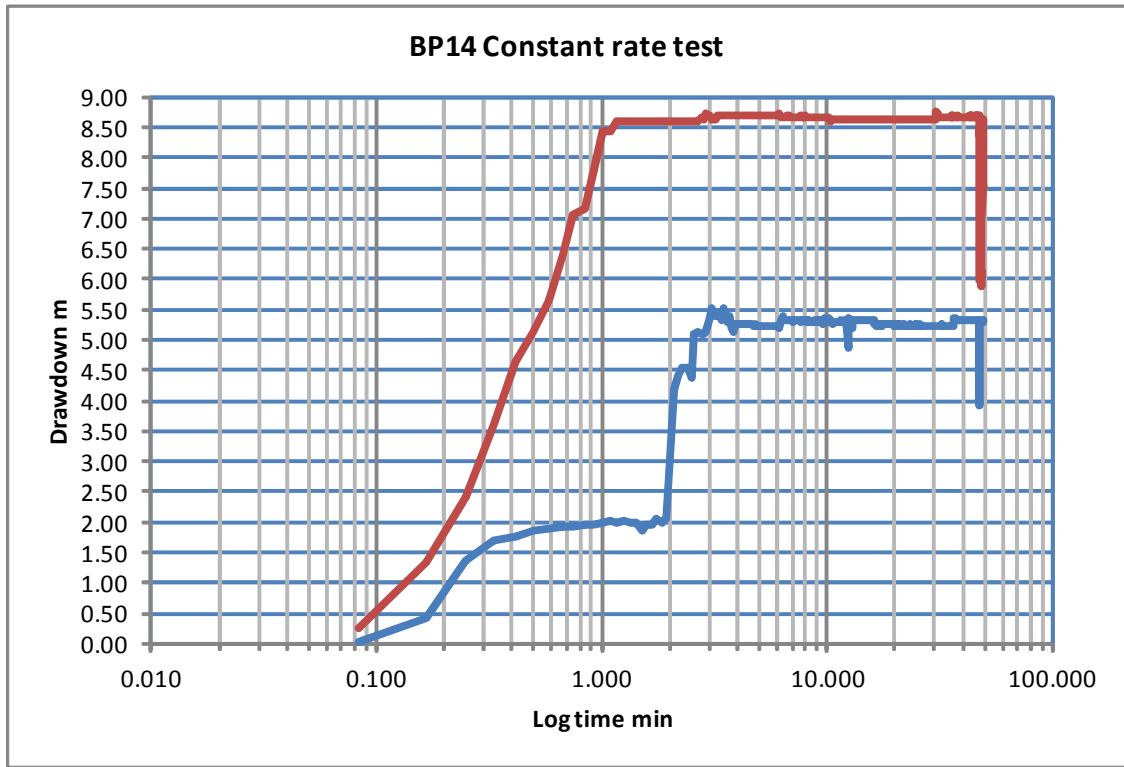
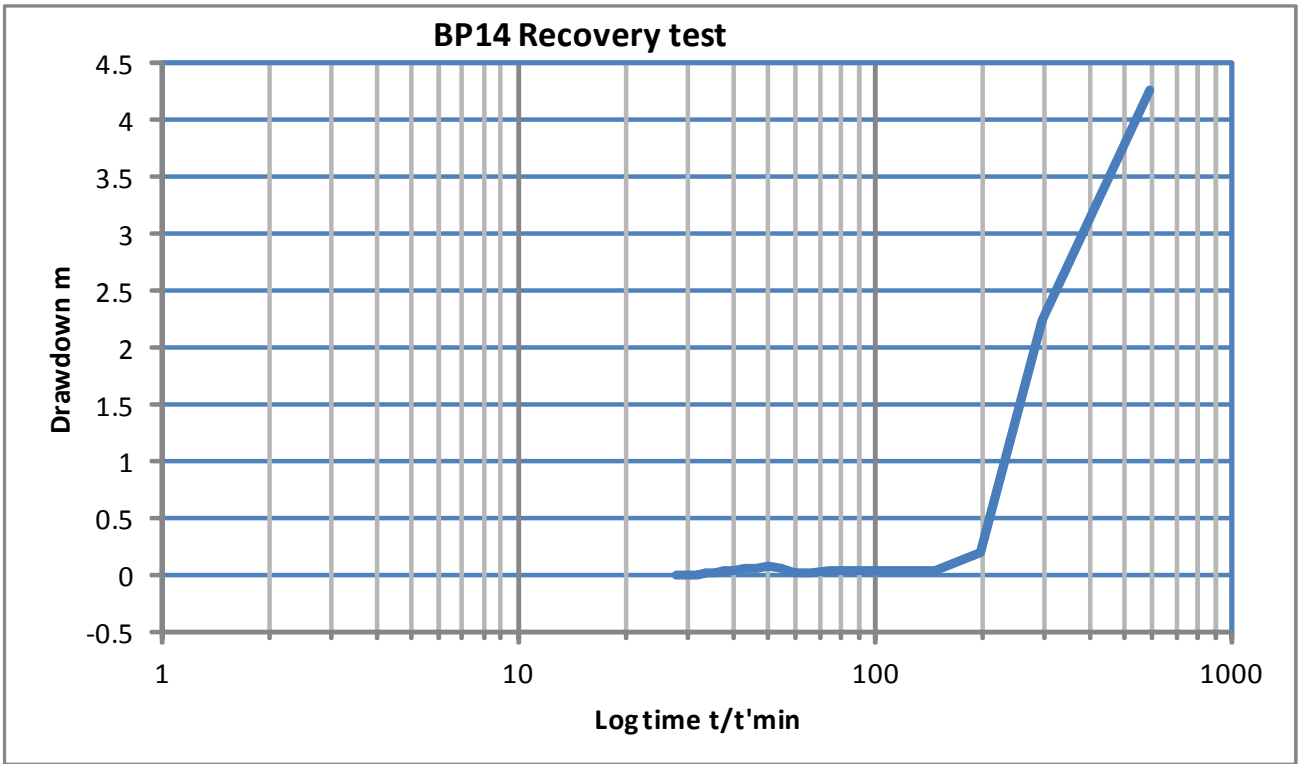
SCALE BAR

ORIGIN SIZE

A4

FIGURE

5a



LEGEND

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						NNB Gen Co					
						PROJECT					
						2015 Onshore Ground Investigation Campaign on the SZC Construction Site Area					
						TITLE					
						Permeability test CPB BP 13					
00		16.10.2015		-		MW		SH		-	
REV	DATE	DESCRIPTION	BY	CHD	APR	JOB NO		SCALE BAR		ORIGIN SIZE	FIGURE
m		NTS		-		763468				A4	5b

APPENDIX D

- (i) Geotechnical Laboratory Test Verification Sheet
- (ii) Geotechnical Laboratory Test Results

TESTING VERIFICATION CERTIFICATE



1774

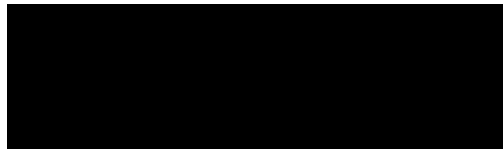
The test results included in this report are certified as:-

ISSUE STATUS: FINAL

In accordance with Structural Soils Ltd Laboratory Quality Assurance Manual, Issue 6, January 2010 all results sheets and summaries of results issued by the laboratory are checked by an approved signatory. This check will also involve checking of at least 10% of calculations for each test type to ensure that data has been correctly entered into the computer and calculated. The integrity of the test data and results are ensured by control of the computer system employed by the laboratory as part of the Software Verification Program as detailed in the Laboratory Quality Assurance Manual.

This testing verification certificate covers all testing compiled on or before the following datetime: **17/09/2015 10:58:52**.

Testing reported after this date is not covered by this Verification Certificate.



Approved Signatory
Mark Athorne (Laboratory Quality Manager)



STRUCTURAL SOILS
The Potteries
Pottery Street
Castleford
W. Yorkshire WF10 1NJ

Contract:

SZC 2015 Onshore GI

Job No:

763468



SUMMARY OF SOIL CLASSIFICATION TESTS

In accordance with clauses 3.2,4.3,4.4,5.3,5.4,7.2,8.2,8.3 of BS1377:Part 2:1990

Exploratory Position ID	Sample Ref	Sample Type	Depth (m)	Moisture Content %	Liquid Limit %	Plastic Limit %	Plasticity Index %	% <425um	Description of Sample
BP3	2	B	1.50	13	29	11	18	88	Brown sandy slightly gravelly CLAY
CPB BP10	2	B	0.50	15	32	14	18	86	Orange brown sandy CLAY
CPB BP11	4	B	1.50	17	34	13	21	66	Orange brown sandy slightly gravelly CLAY
CPB BP12	5	B	2.00	12	37	14	23	66	Light brown sandy gravelly CLAY
CPB BP12	34	B	16.50	34	43	20	23	100	Brown sandy CLAY
WMZ20	2	B	1.20	34	42	15	27	89	Orange grey very sandy slightly gravelly CLAY



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SOILS LTD**

Contract:

SZC 2015 Onshore GI

Contract Ref:

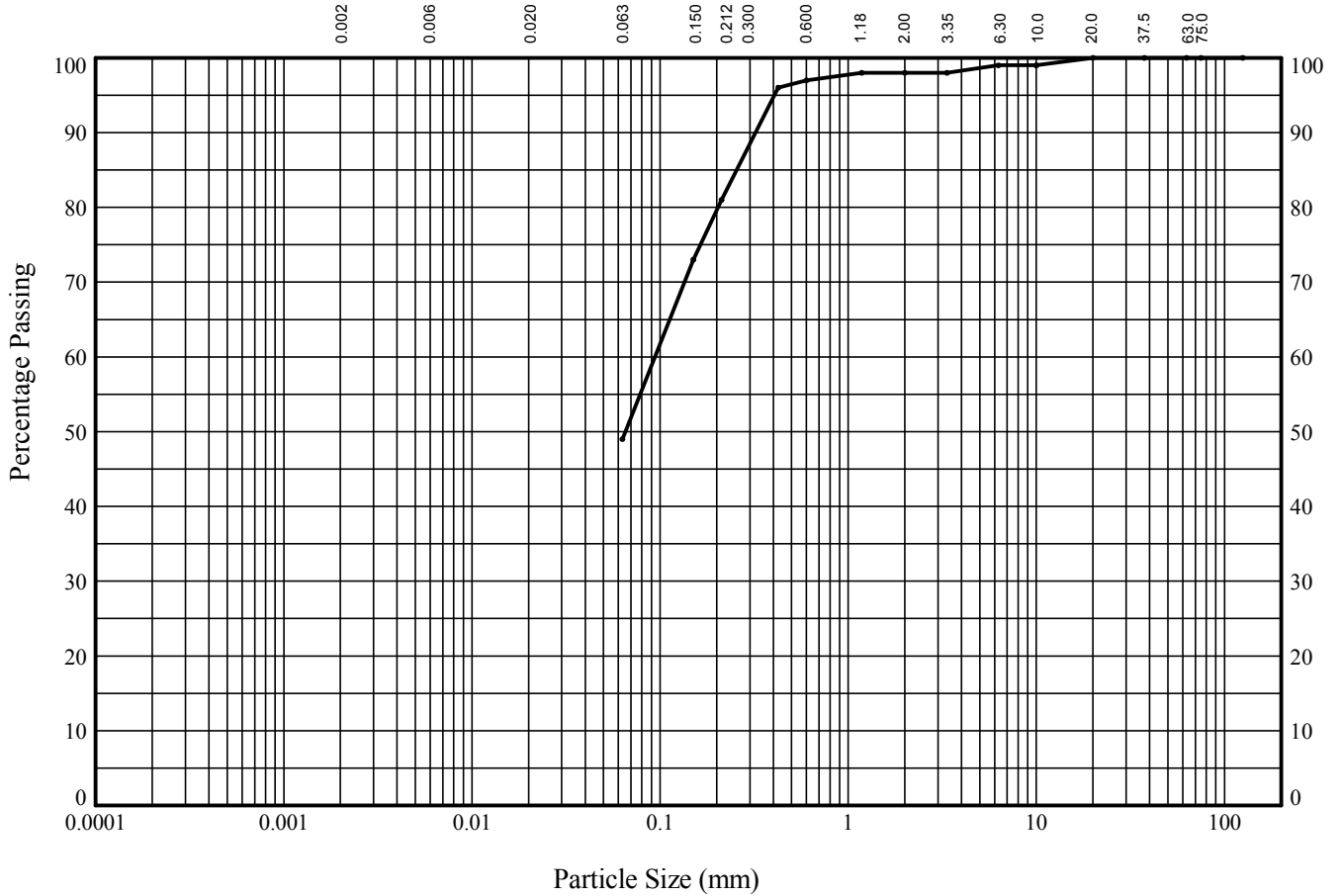
763468



PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Position ID: **BP1** Sample Ref: **2** Sample Type: **B** Depth (m): **1.70**



CLAY	SILT			SAND			GRAVEL			COBBLES
	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	

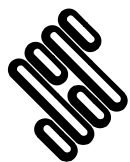
BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	99
6.30	99
3.35	98
2.00	98
1.18	98
0.600	97
0.425	96
0.212	81
0.150	73
0.063	49

Particle Diameter	Percentage Passing
0.075	49
0.150	73
0.300	81
0.600	96
1.18	97
2.0	98
3.35	98
6.30	99
10.0	99
20.0	100
37.5	100
63.0	100
75.0	100
125.0	100

Soil Fraction	Sieve Percentage
GRAVEL	2
SAND	49
SILT/CLAY	49

Soil Description:
Orange grey sandy slightly gravelly CLAY

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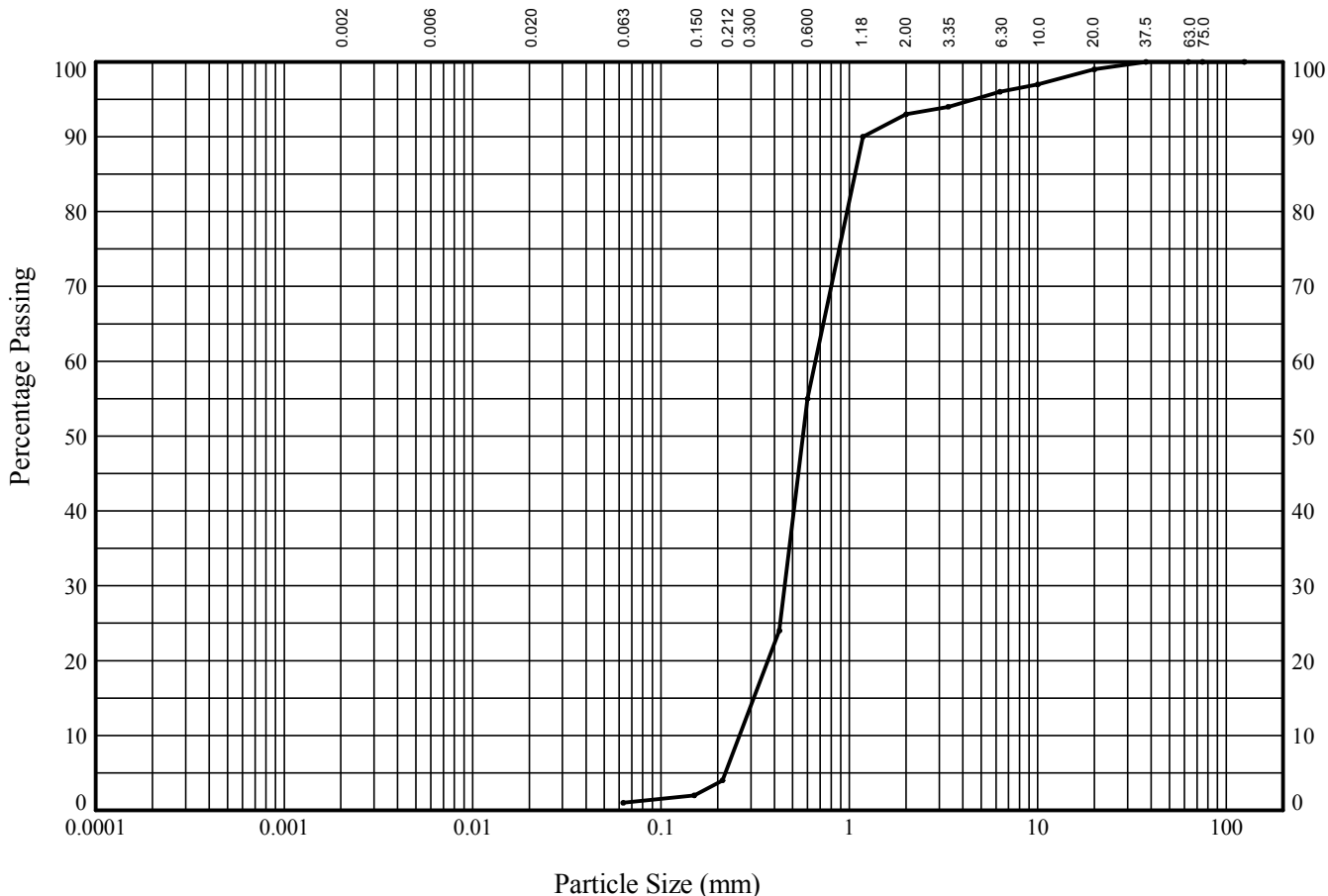
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Contract		Contract Ref:
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PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Position ID: **BP1** Sample Ref: **5** Sample Type: **B** Depth (m): **3.50**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	99
10.0	97
6.30	96
3.35	94
2.00	93
1.18	90
0.600	55
0.425	24
0.212	4
0.150	2
0.063	1

Particle Diameter	Percentage Passing

Soil Fraction	Sieve Percentage
GRAVEL	7
SAND	92
SILT/CLAY	1

Soil Description:
Orange clayey gravelly SAND

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<p>STRUCTURAL SOILS The Potteries Pottery Street Castleford W. Yorkshire WF10 1NJ</p>	Compiled By		Date
			17/09/15
	Contract SZC 2015 Onshore GI	Contract Ref: 763468	

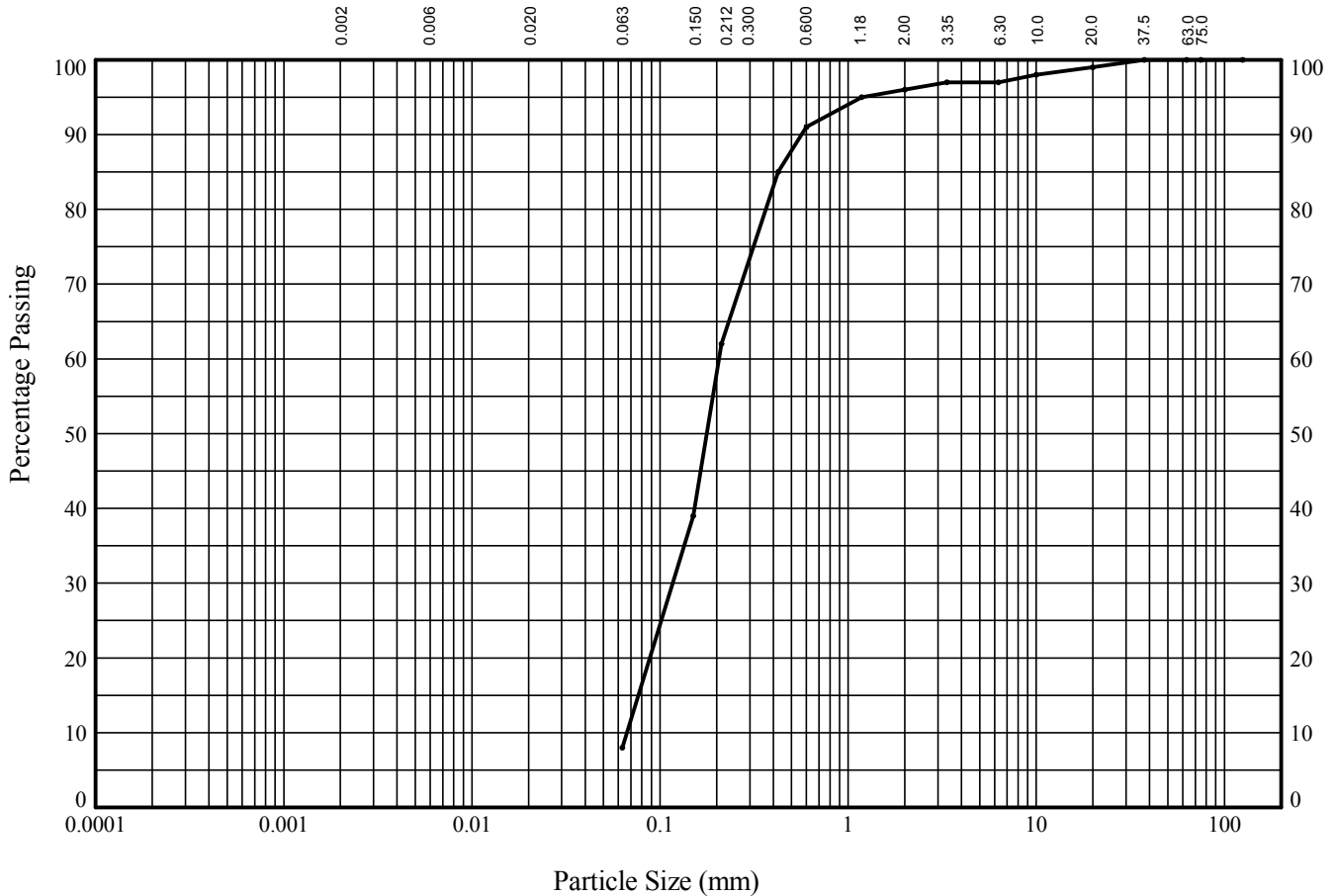
GINT LIBRARY V8_05 GLB LibVersion: v8_05 - Lib0004 ProjVersion: v8_05 - Core+Logs+Geotech Lab-Bristol - 0003 | Graph L - PSD - EC7 | 763468 - SZC 2015 ONSHORE GI.GPJ - v8_05 | 17/09/15 - 10:45 | SA. Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ, Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk



PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Position ID: **BP2** Sample Ref: **2** Sample Type: **B** Depth (m): **1.00**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

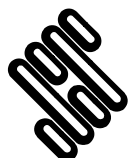
BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	99
10.0	98
6.30	97
3.35	97
2.00	96
1.18	95
0.600	91
0.425	85
0.212	62
0.150	39
0.063	8

Particle Diameter	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	99
10.0	98
6.30	97
3.35	97
2.00	96
1.18	95
0.600	91
0.425	85
0.212	62
0.150	39
0.063	8

Soil Fraction	Sieve Percentage
GRAVEL	4
SAND	88
SILT/CLAY	8

Soil Description:
Brown clayey slightly gravelly SAND

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PARTICLE SIZE DISTRIBUTION TEST

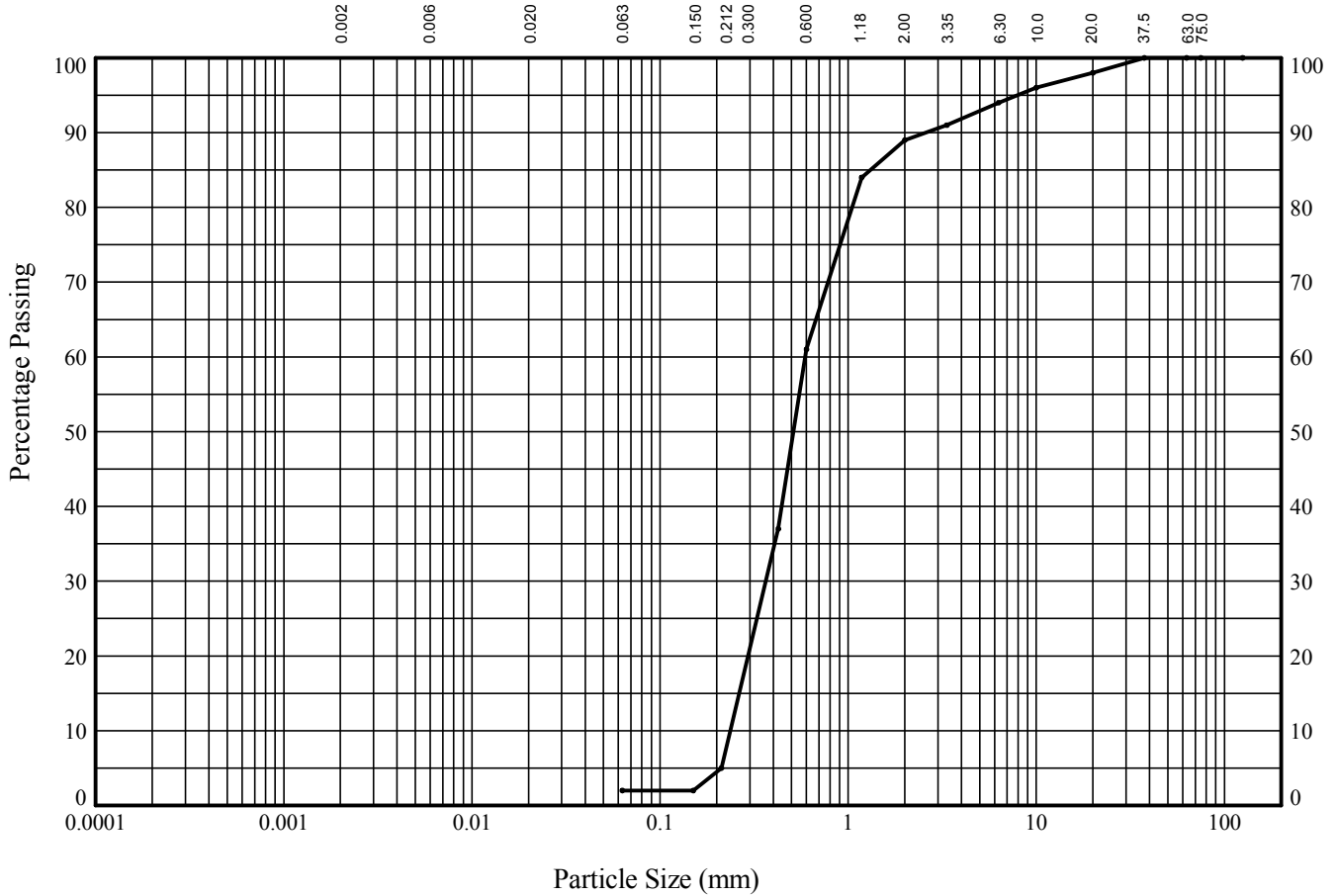
In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Position ID: **BP2**

Sample Ref: **3**

Sample Type: **B**

Depth (m): **2.00**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

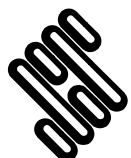
BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	98
10.0	96
6.30	94
3.35	91
2.00	89
1.18	84
0.600	61
0.425	37
0.212	5
0.150	2
0.063	2

Particle Diameter	Percentage Passing
0.063	2
0.150	2
0.212	5
0.425	37
0.600	61
1.18	84
2.00	89
3.35	91
6.30	94
10.0	96
20.0	98
37.5	100
63.0	100
75.0	100
125.0	100

Soil Fraction	Sieve Percentage
GRAVEL	11
SAND	87
SILT/CLAY	2

Soil Description:
Orange slightly clayey gravelly SAND

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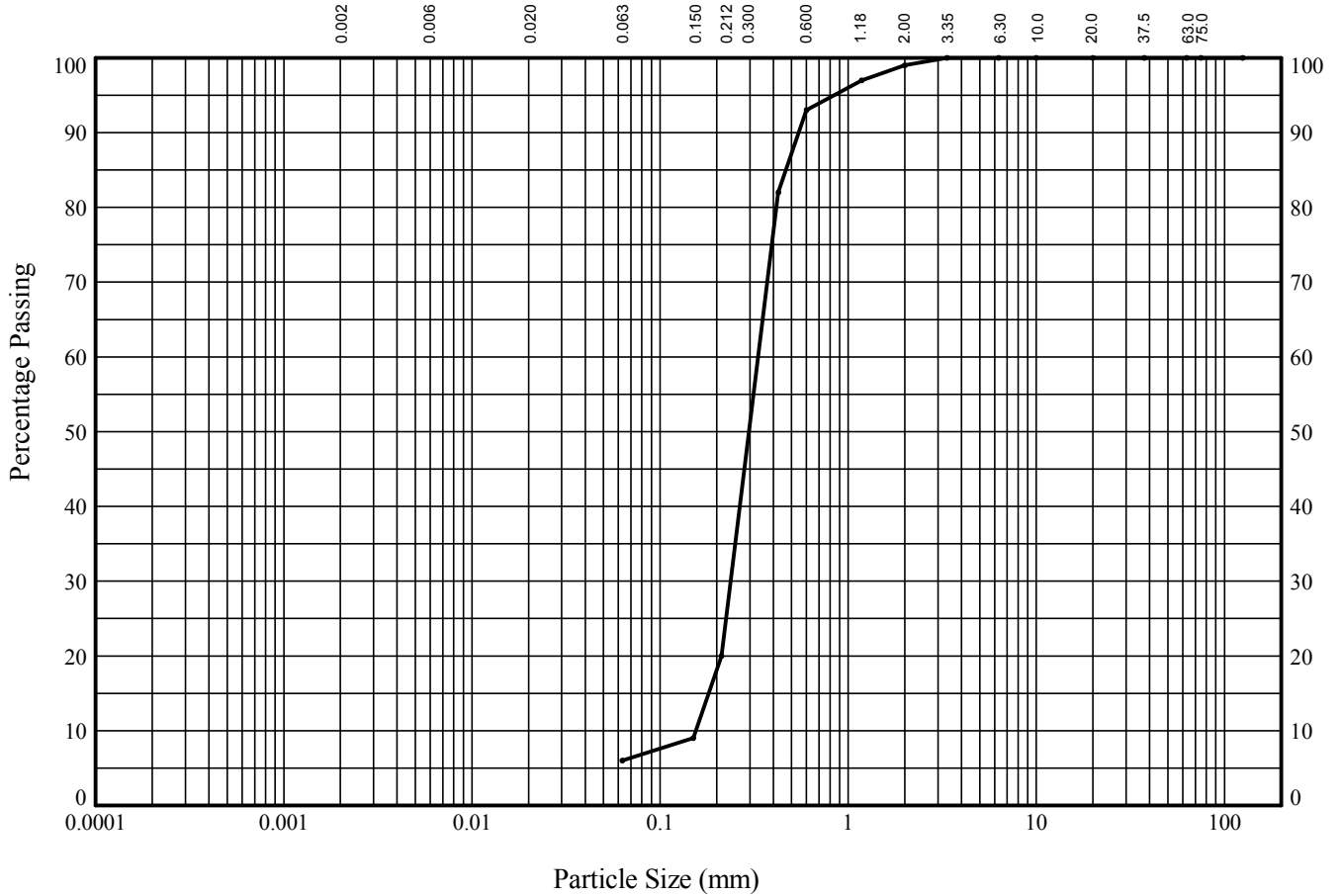
Compiled By		Date
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Contract		Contract Ref:
SZC 2015 Onshore GI		763468



PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Position ID: **BP2** Sample Ref: **5** Sample Type: **B** Depth (m): **3.50**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			



BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	100
6.30	100
3.35	100
2.00	99
1.18	97
0.600	93
0.425	82
0.212	20
0.150	9
0.063	6

Particle Diameter	Percentage Passing
0.075	6
0.15	9
0.3	20
0.6	82
1.18	93
2.0	97
4.75	99
7.5	99
15	100
30	100
60	100
125	100

Soil Fraction	Sieve Percentage
GRAVEL	1
SAND	93
SILT/CLAY	6

Soil Description:
Orange clayey slightly gravelly SAND

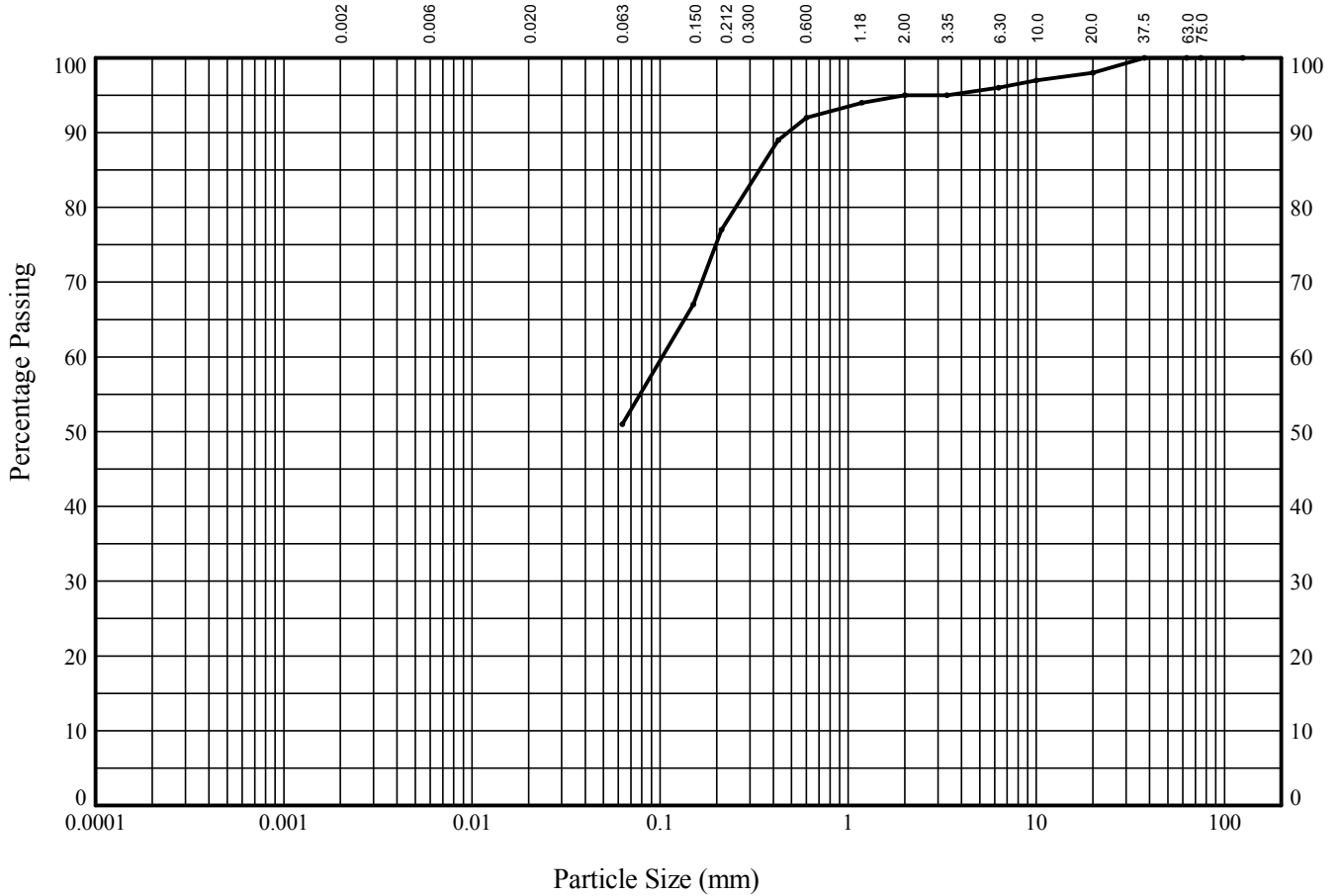
Approved Signatories: J.BARRETT M.MATHORNE A.FROST M.RANDERSON R.CLARKSON M.FISHER C.COLE M.STOKES

 <p>STRUCTURAL SOILS The Potteries Pottery Street Castleford W. Yorkshire WF10 1NJ</p>	Compiled By		Date
			17/09/15
	Contract	Contract Ref:	
SZC 2015 Onshore GI		763468	

PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Position ID: **BP3** Sample Ref: **2** Sample Type: **B** Depth (m): **1.50**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

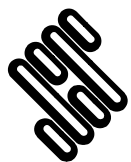
BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	98
10.0	97
6.30	96
3.35	95
2.00	95
1.18	94
0.600	92
0.425	89
0.212	77
0.150	67
0.063	51

Particle Diameter	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	98
10.0	97
6.30	96
3.35	95
2.00	95
1.18	94
0.600	92
0.425	89
0.212	77
0.150	67
0.063	51

Soil Fraction	Sieve Percentage
GRAVEL	5
SAND	44
SILT/CLAY	51

Soil Description:
Brown sandy slightly gravelly CLAY

Approved Signatories: J.BARRETT M.MATHORNE A.FROST M.RANDERSON R.CLARKSON M.FISHER C.COLE M.STOKES



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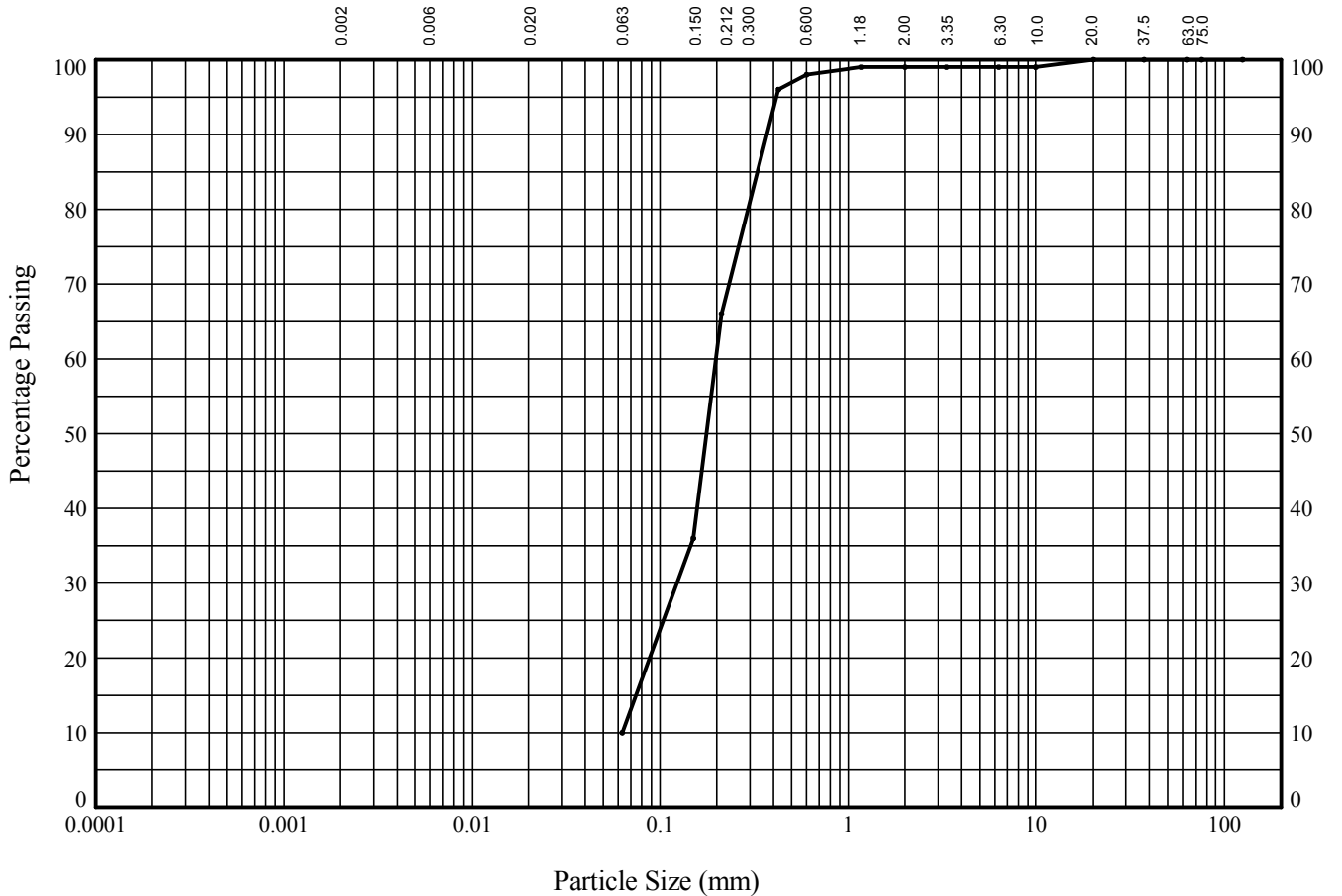
Compiled By		Date
		17/09/15
Contract		Contract Ref:
SZC 2015 Onshore GI		763468



PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Position ID: **BP3** Sample Ref: **4** Sample Type: **B** Depth (m): **3.00**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

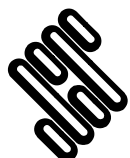
BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	99
6.30	99
3.35	99
2.00	99
1.18	99
0.600	98
0.425	96
0.212	66
0.150	36
0.063	10

Particle Diameter	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	99
6.30	99
3.35	99
2.00	99
1.18	99
0.600	98
0.425	96
0.212	66
0.150	36
0.063	10

Soil Fraction	Sieve Percentage
GRAVEL	1
SAND	89
SILT/CLAY	10

Soil Description:
Light brown clayey slightly gravelly SAND

Approved Signatories: J.BARRETT M.MATHORNE A.FROST M.RANDERSON R.CLARKSON M.FISHER C.COLE M.STOKES



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 W. Yorkshire WF10 1NJ

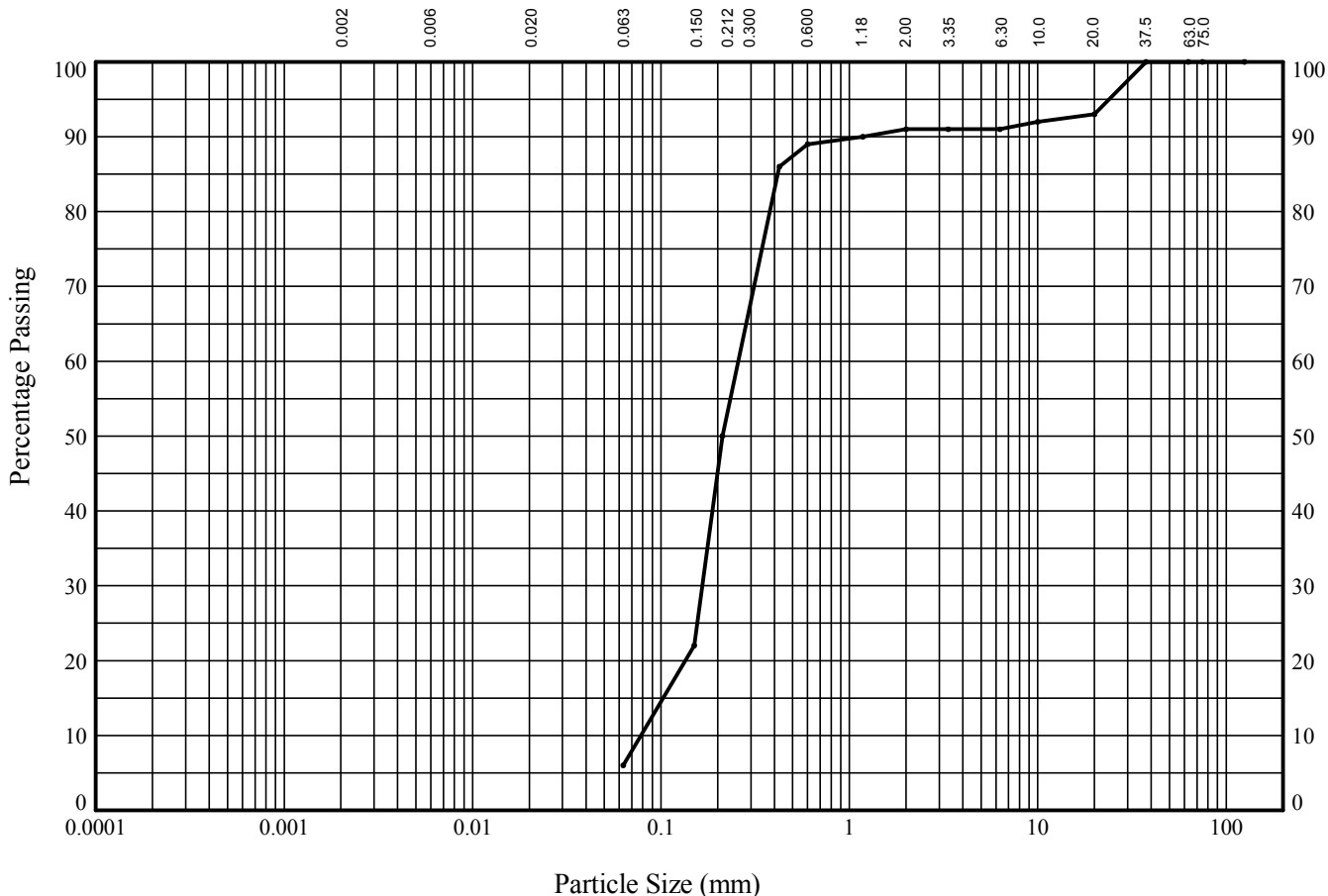
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SZC 2015 Onshore GI		763468



PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Position ID: **BP5** Sample Ref: **1** Sample Type: **B** Depth (m): **0.50**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

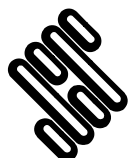
BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	93
10.0	92
6.30	91
3.35	91
2.00	91
1.18	90
0.600	89
0.425	86
0.212	50
0.150	22
0.063	6

Particle Diameter	Percentage Passing

Soil Fraction	Sieve Percentage
GRAVEL	9
SAND	85
SILT/CLAY	6

Soil Description:
Orange clayey gravelly SAND

Approved Signatories: J.BARRETT M.MATHORNE A.FROST M.RANDERSON R.CLARKSON M.FISHER C.COLE M.STOKES



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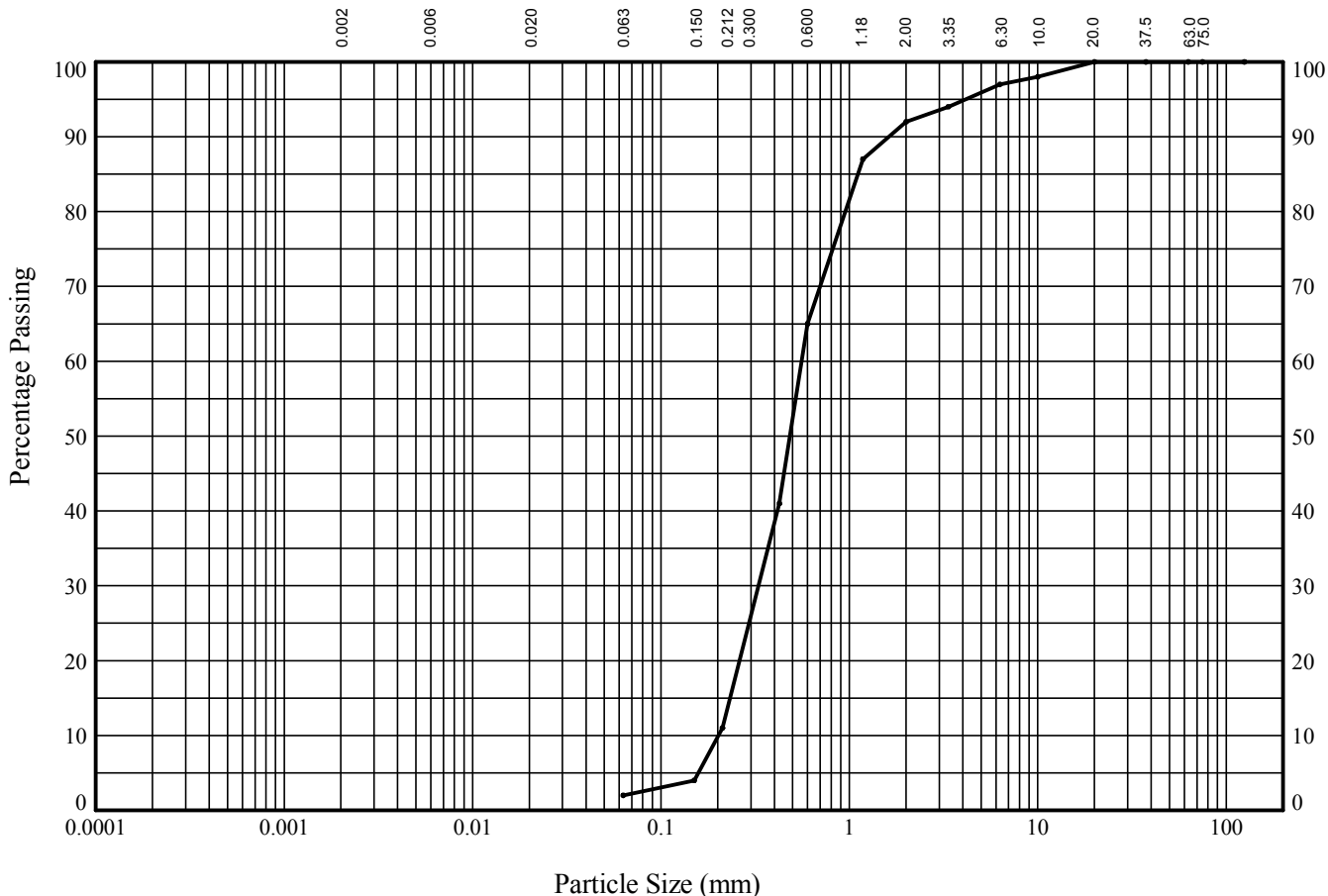
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SZC 2015 Onshore GI	763468	



PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Position ID: **BP5** Sample Ref: **3** Sample Type: **B** Depth (m): **1.70**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	98
6.30	97
3.35	94
2.00	92
1.18	87
0.600	65
0.425	41
0.212	11
0.150	4
0.063	2

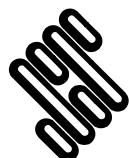
Particle Diameter	Percentage Passing

Soil Fraction	Sieve Percentage
GRAVEL	8
SAND	90
SILT/CLAY	2

Soil Description:
Slightly clayey gravelly SAND

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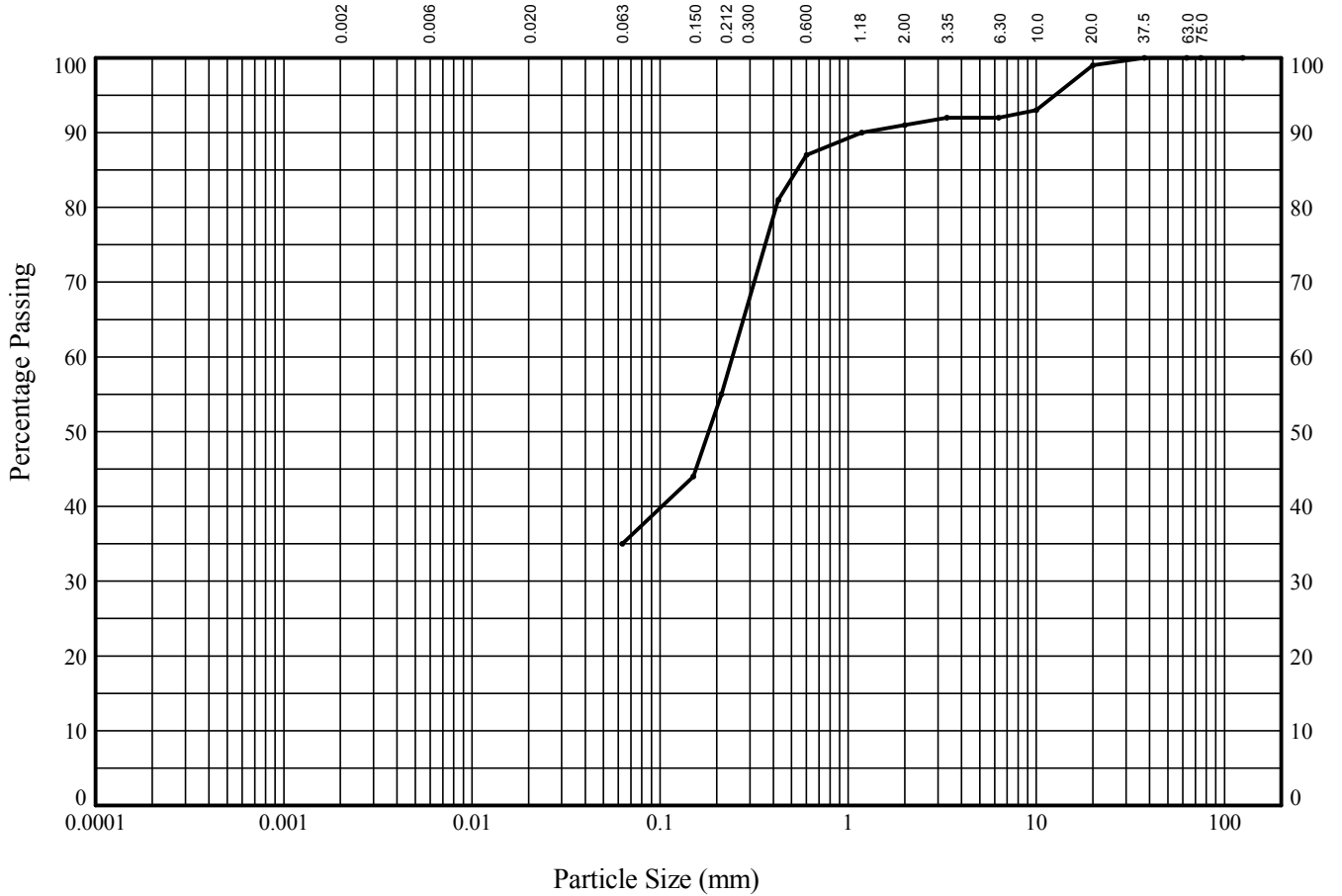
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Contract	17/09/15
SZC 2015 Onshore GI	Contract Ref: 763468

PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Position ID: **BP6** Sample Ref: **1** Sample Type: **B** Depth (m): **0.50**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			



BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	99
10.0	93
6.30	92
3.35	92
2.00	91
1.18	90
0.600	87
0.425	81
0.212	55
0.150	44
0.063	35

Particle Diameter	Percentage Passing

Soil Fraction	Sieve Percentage
GRAVEL	9
SAND	56
SILT/CLAY	35

Soil Description:
Orange brown slightly gravelly very sandy CLAY

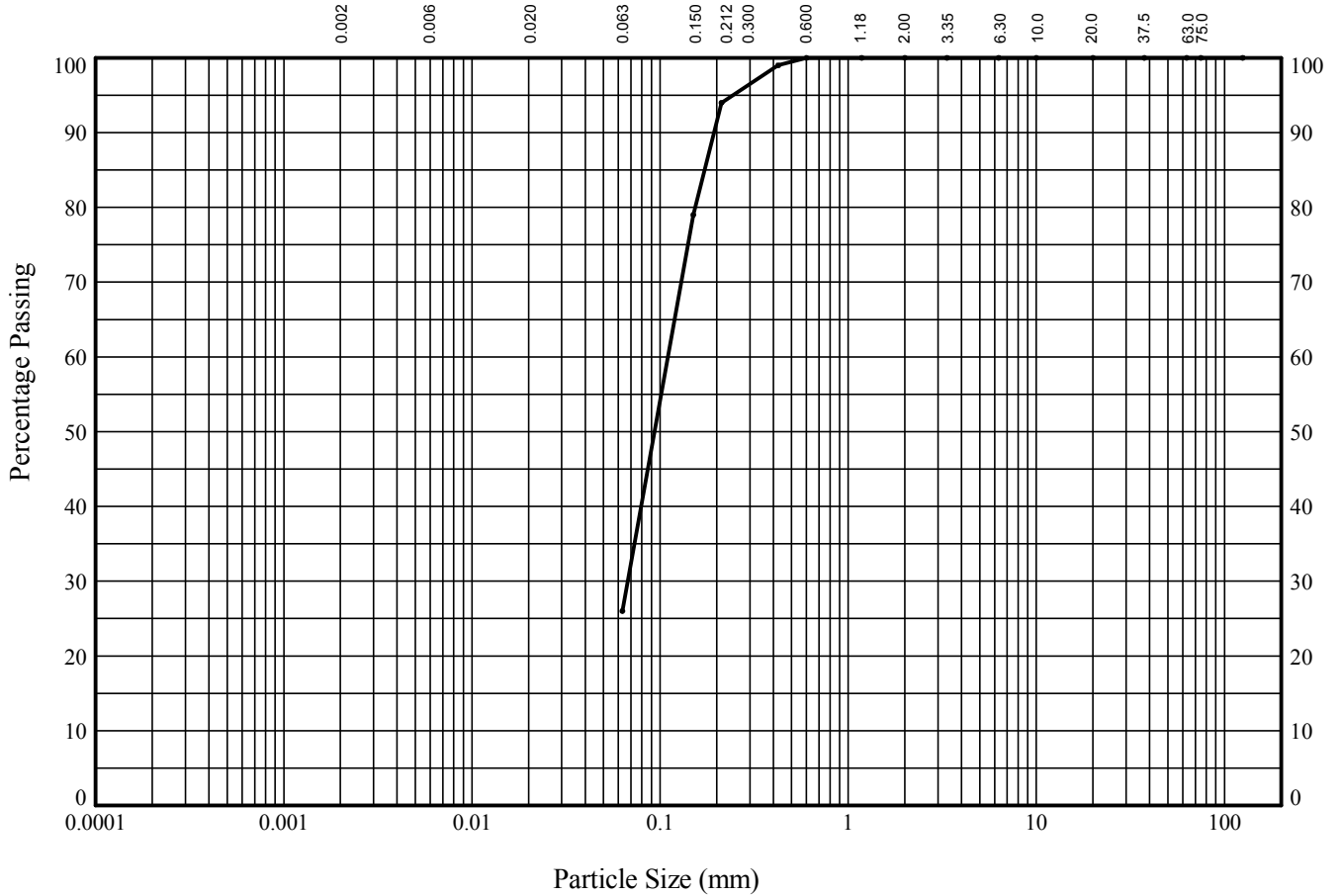
Approved Signatories: J.BARRETT M.MATHORNE A.FROST M.RANDERSON R.CLARKSON M.FISHER C.COLE M.STOKES

 <p>STRUCTURAL SOILS The Potteries Pottery Street Castleford W. Yorkshire WF10 1NJ</p>	Compiled By		Date
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PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Position ID: **BP6** Sample Ref: **3** Sample Type: **B** Depth (m): **2.50**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

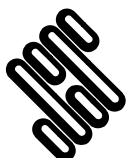
BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	100
6.30	100
3.35	100
2.00	100
1.18	100
0.600	100
0.425	99
0.212	94
0.150	79
0.063	26

Particle Diameter	Percentage Passing

Soil Fraction	Sieve Percentage
GRAVEL	0
SAND	74
SILT/CLAY	26

Soil Description:
Orange very clayey SAND

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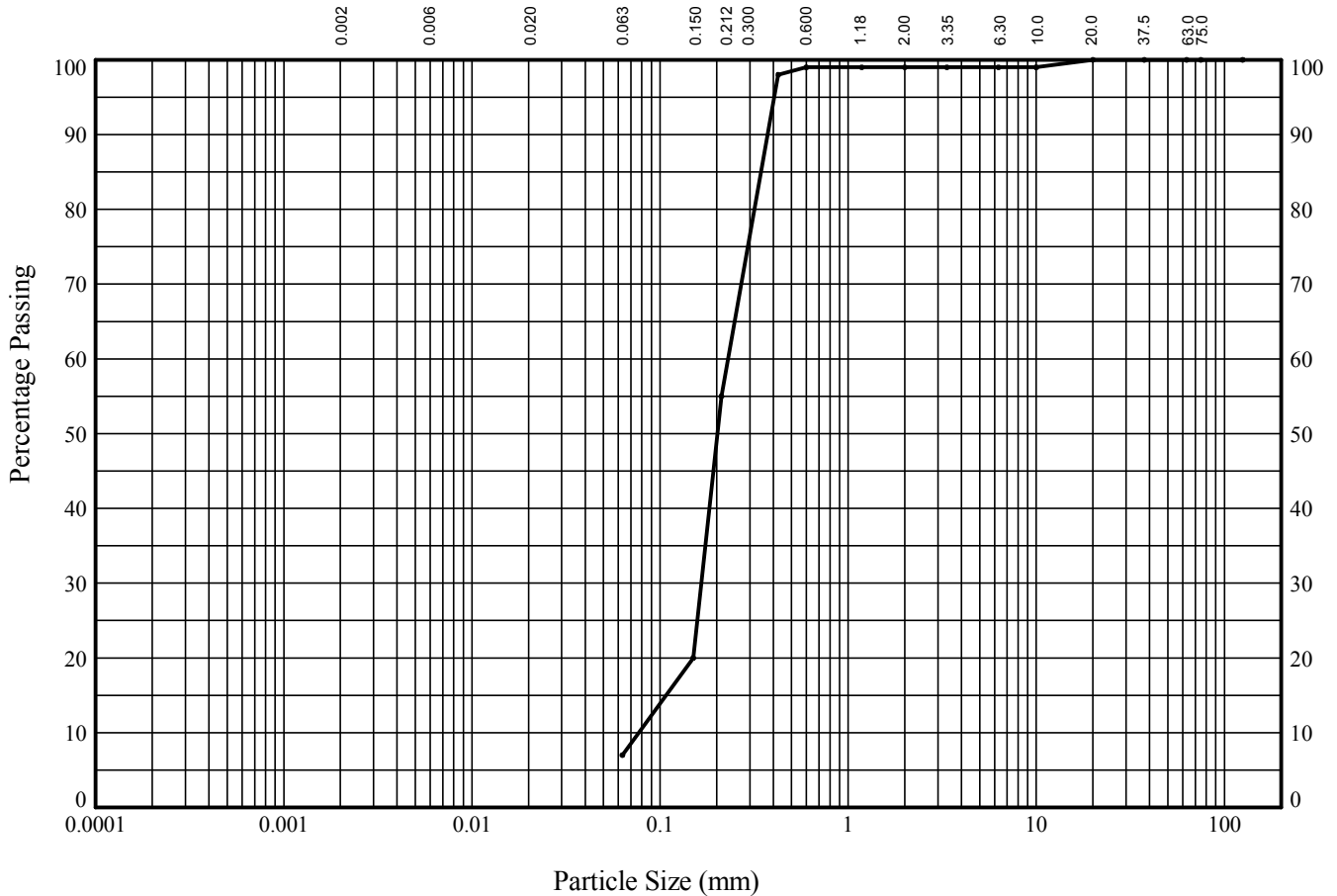
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PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Position ID: **BP6** Sample Ref: **5** Sample Type: **B** Depth (m): **3.20**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

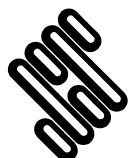
BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	99
6.30	99
3.35	99
2.00	99
1.18	99
0.600	99
0.425	98
0.212	55
0.150	20
0.063	7

Particle Diameter	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	99
6.30	99
3.35	99
2.00	99
1.18	99
0.600	99
0.425	98
0.212	55
0.150	20
0.063	7

Soil Fraction	Sieve Percentage
GRAVEL	1
SAND	92
SILT/CLAY	7

Soil Description:
Light brown clayey slightly gravelly SAND

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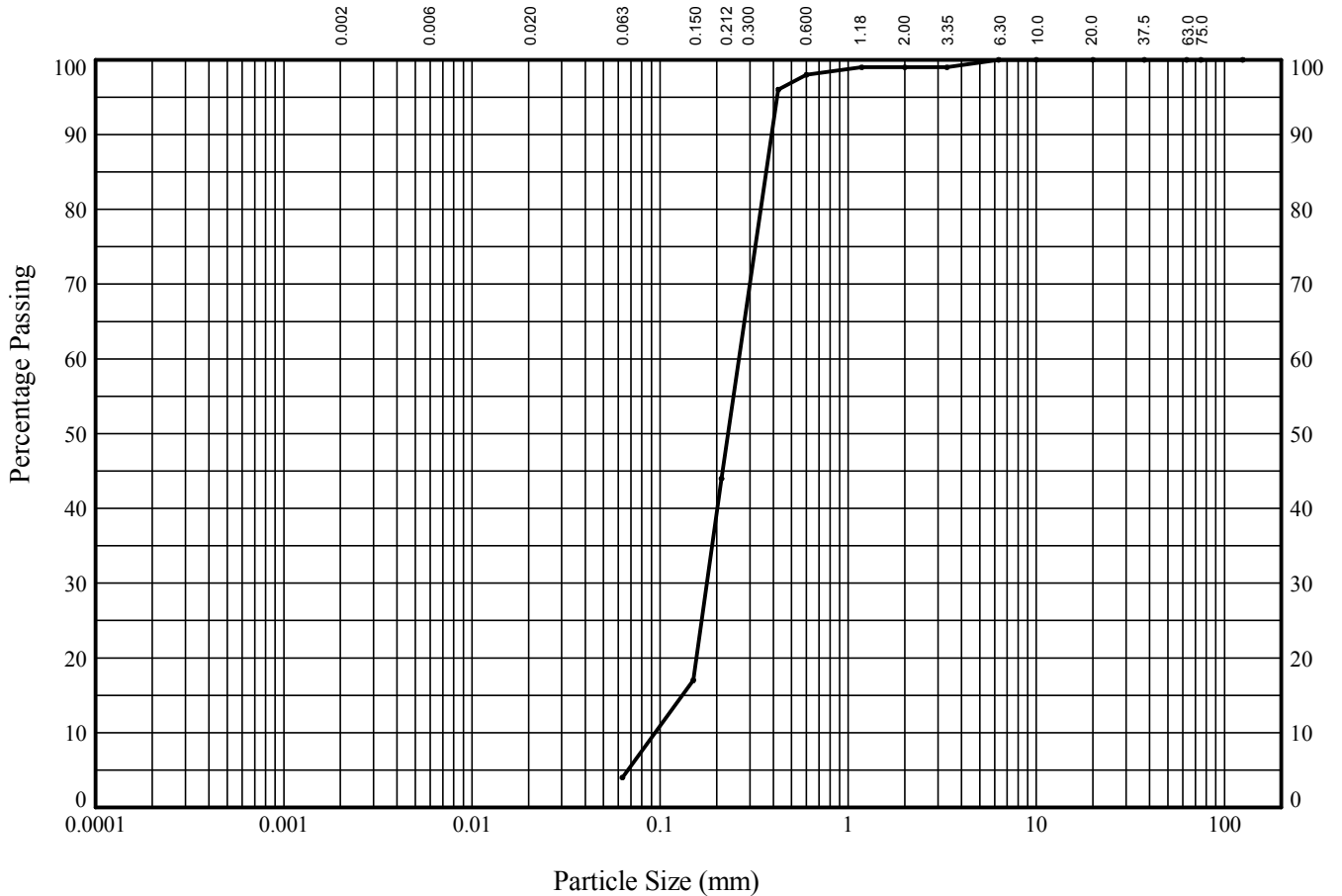
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Contract		Contract Ref:
SZC 2015 Onshore GI		763468



PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Position ID: **BP7** Sample Ref: **5** Sample Type: **B** Depth (m): **3.20**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	100
6.30	100
3.35	99
2.00	99
1.18	99
0.600	98
0.425	96
0.212	44
0.150	17
0.063	4

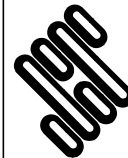
Particle Diameter	Percentage Passing
0.063	4
0.150	17
0.212	44
0.300	96
0.600	98
1.18	99
2.00	99
3.35	99
6.30	100
10.0	100
20.0	100
37.5	100
63.0	100
75.0	100
125.0	100

Soil Fraction	Sieve Percentage
GRAVEL	1
SAND	95
SILT/CLAY	4

Soil Description:
Light brown slightly clayey slightly gravelly SAND

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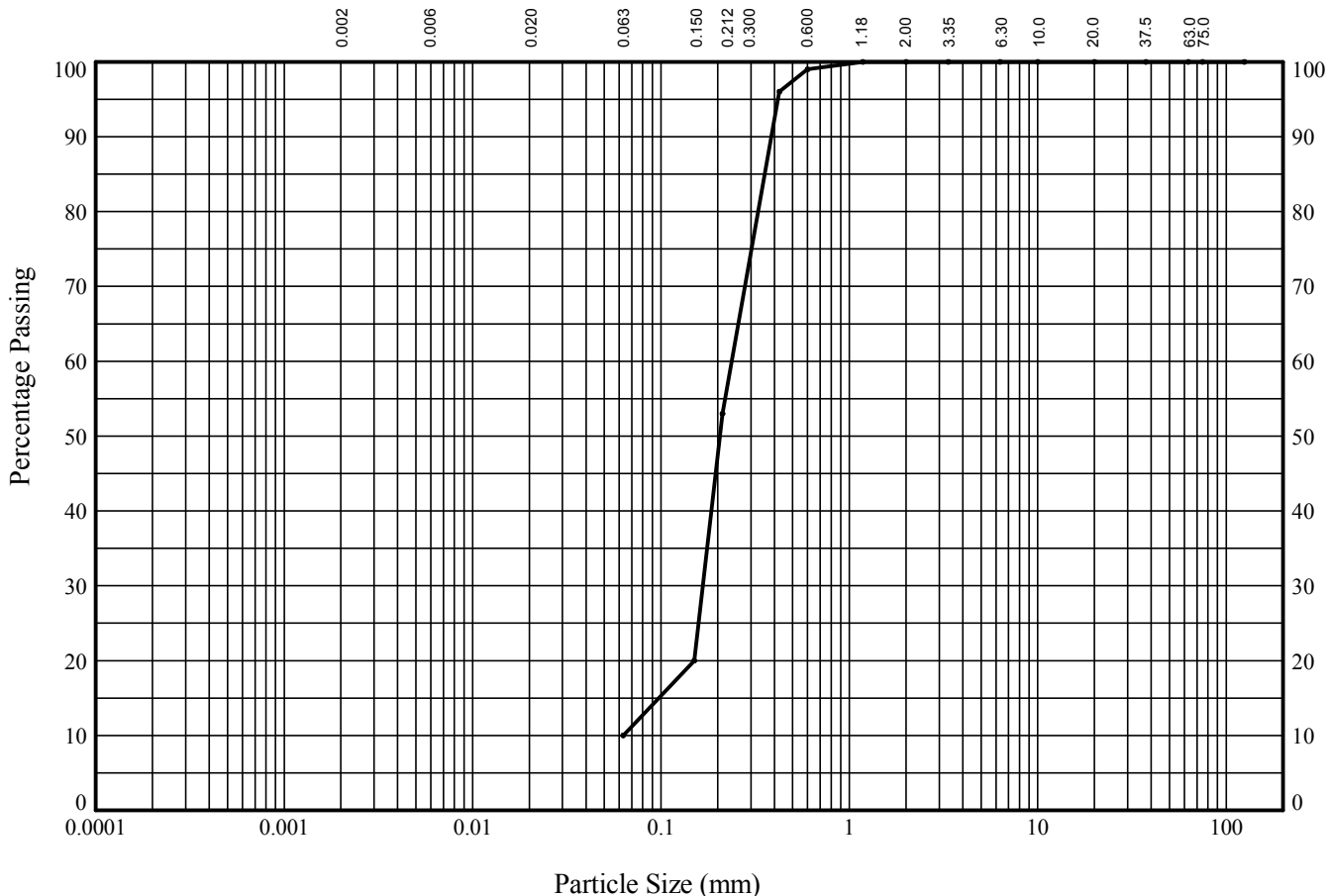
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PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Position ID: **BP8** Sample Ref: **4** Sample Type: **B** Depth (m): **2.00**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	100
6.30	100
3.35	100
2.00	100
1.18	100
0.600	99
0.425	96
0.212	53
0.150	20
0.063	10

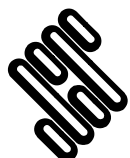
Particle Diameter	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	100
6.30	100
3.35	100
2.00	100
1.18	100
0.600	99
0.425	96
0.212	53
0.150	20
0.063	10

Soil Fraction	Sieve Percentage
GRAVEL	0
SAND	90
SILT/CLAY	10

Soil Description:
Orange brown clayey SAND

Approved Signatories: J.BARRETT M.MATHORNE A.FROST M.RANDERSON R.CLARKSON M.FISHER C.COLE M.STOKES

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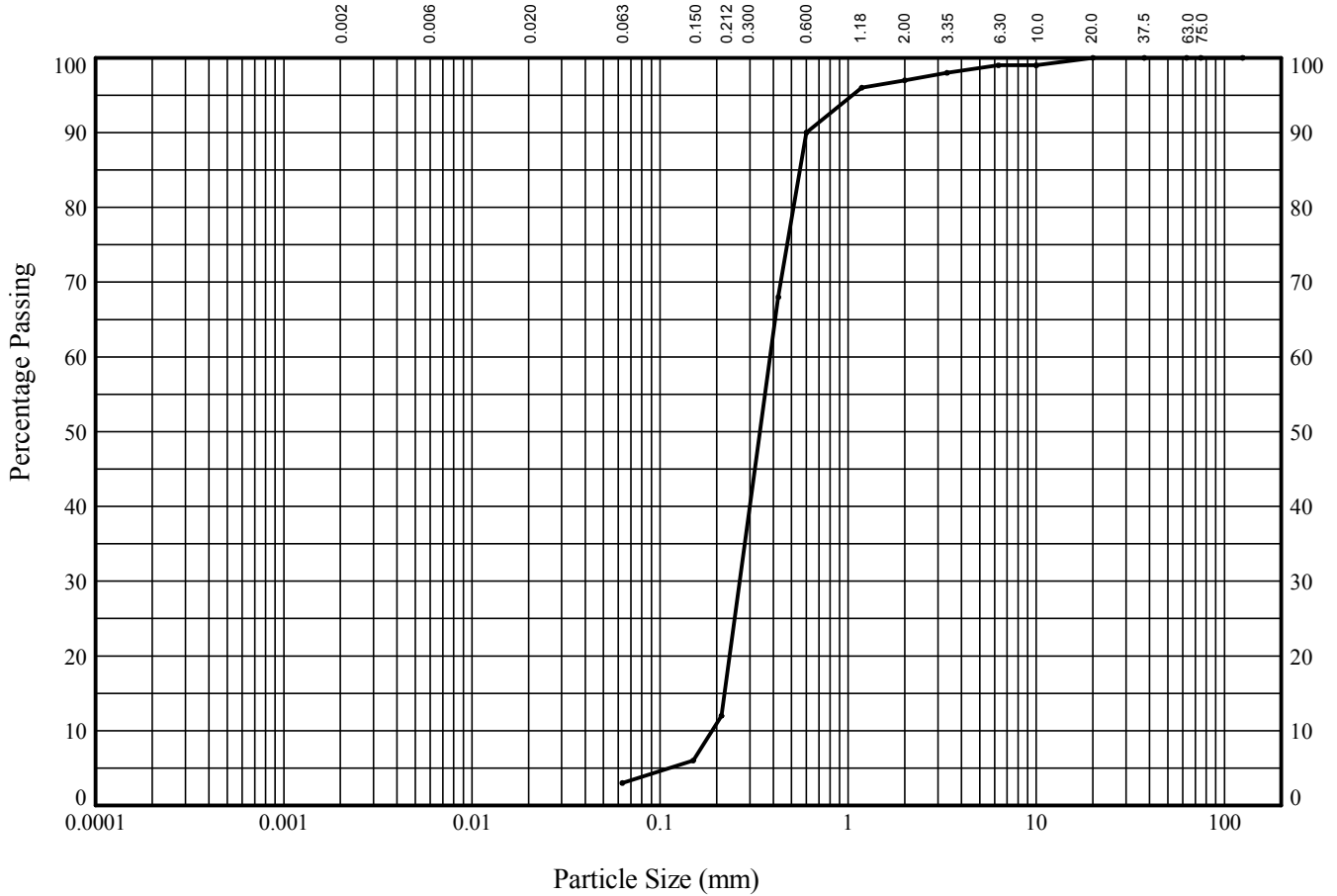
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PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Position ID: **CPB BP7** Sample Ref: **2** Sample Type: **B** Depth (m): **0.50**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	99
6.30	99
3.35	98
2.00	97
1.18	96
0.600	90
0.425	68
0.212	12
0.150	6
0.063	3

Particle Diameter	Percentage Passing

Soil Fraction	Sieve Percentage
GRAVEL	3
SAND	94
SILT/CLAY	3

Soil Description:
Light brown slightly clayey slightly gravelly SAND

Approved Signatories: J.BARRETT M.MATHORNE A.FROST M.RANDERSON R.CLARKSON M.FISHER C.COLE M.STOKES

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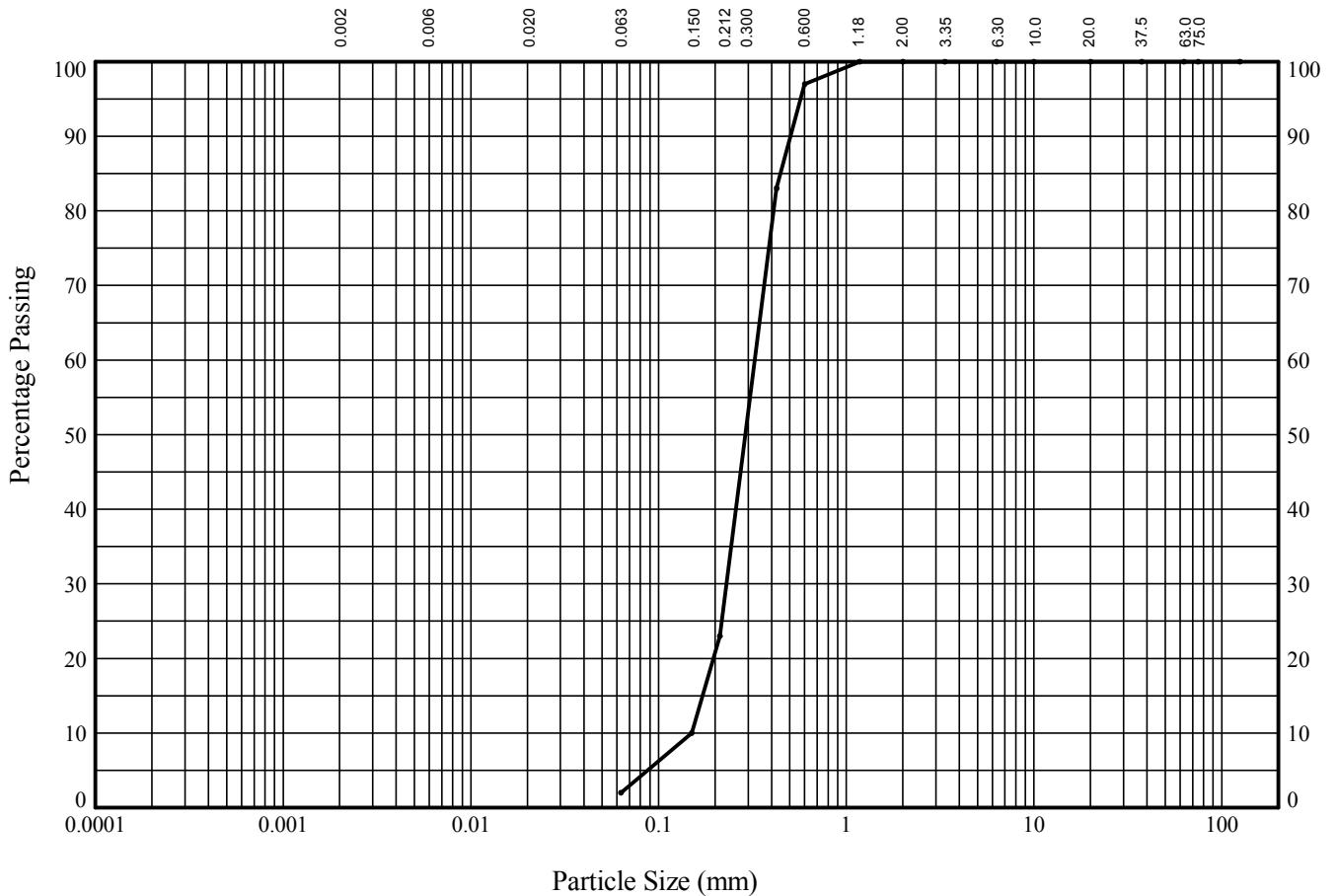
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PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Position ID: **CPB BP7** Sample Ref: **4** Sample Type: **B** Depth (m): **1.50**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	100
6.30	100
3.35	100
2.00	100
1.18	100
0.600	97
0.425	83
0.212	23
0.150	10
0.063	2


Particle Diameter	Percentage Passing


Soil Fraction	Sieve Percentage
GRAVEL	0
SAND	98
SILT/CLAY	2

Soil Description:
Light brown slightly clayey SAND

Approved Signatories: J.BARRETT M.MATHORNE A.FROST M.RANDERSON R.CLARKSON M.FISHER C.COLE M.STOKES

GINT_LIBRARY_V8_05_GLB LibVersion: v8_05 - Lib0004 ProjVersion: v8_05 - Core+Logs+Geotech Lab-Bristol - 0003 | Graph L - PSD - EC7 | 763468 - SZC 2015 ONSHORE GI.GPJ - v8_05 | 17/09/15 - 10:45 | SA. Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

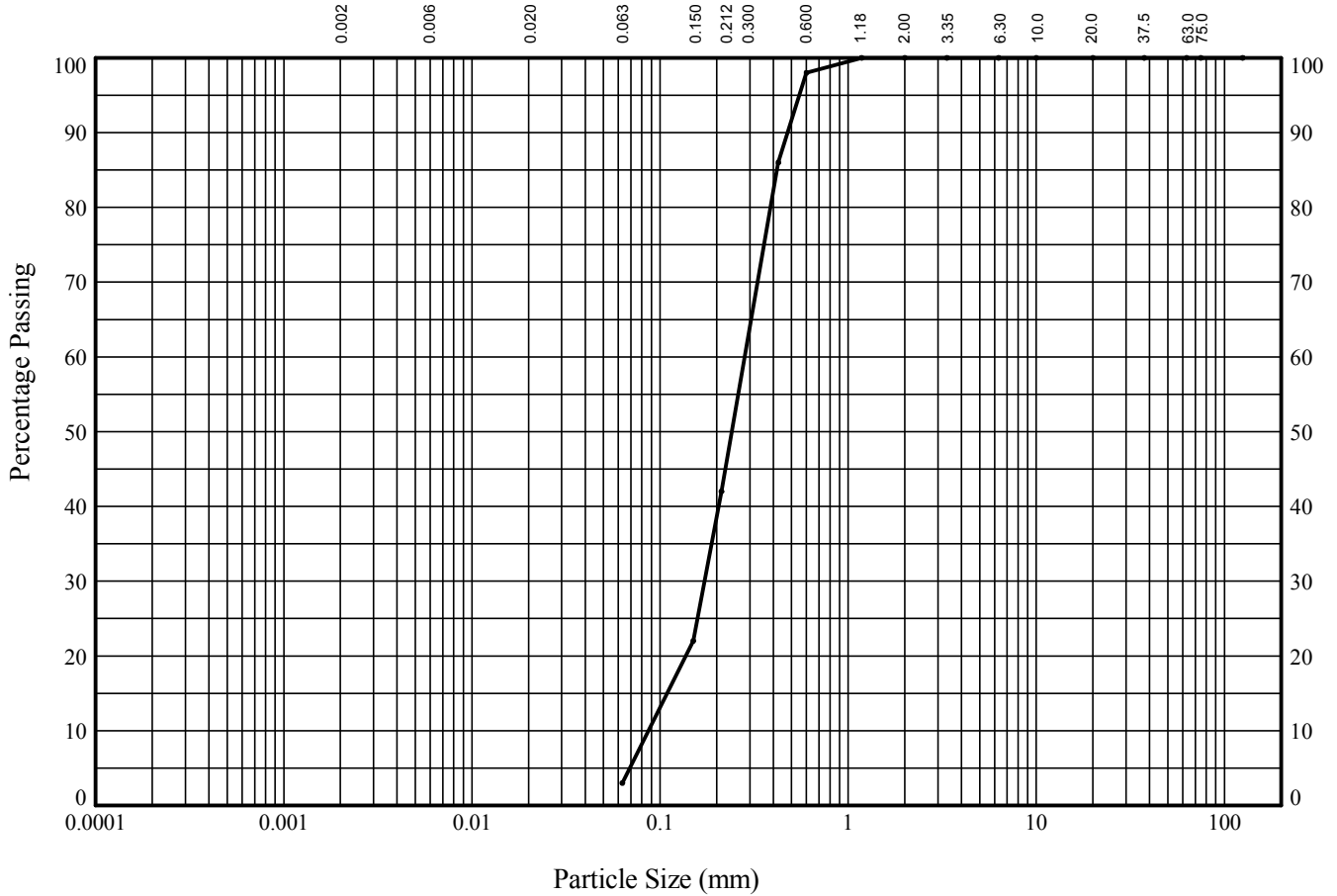
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	Contract SZC 2015 Onshore GI		Contract Ref: 763468



PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Position ID: **CPB BP7** Sample Ref: **6** Sample Type: **B** Depth (m): **3.50**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

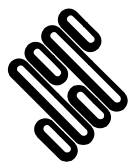
BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	100
6.30	100
3.35	100
2.00	100
1.18	100
0.600	98
0.425	86
0.212	42
0.150	22
0.063	3

Particle Diameter	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	100
6.30	100
3.35	100
2.00	100
1.18	100
0.600	98
0.425	86
0.212	42
0.150	22
0.063	3

Soil Fraction	Sieve Percentage
GRAVEL	0
SAND	97
SILT/CLAY	3

Soil Description:
Orange brown slightly clayey SAND

Approved Signatories: J.BARRETT M.MATHORNE A.FROST M.RANDERSON R.CLARKSON M.FISHER C.COLE M.STOKES



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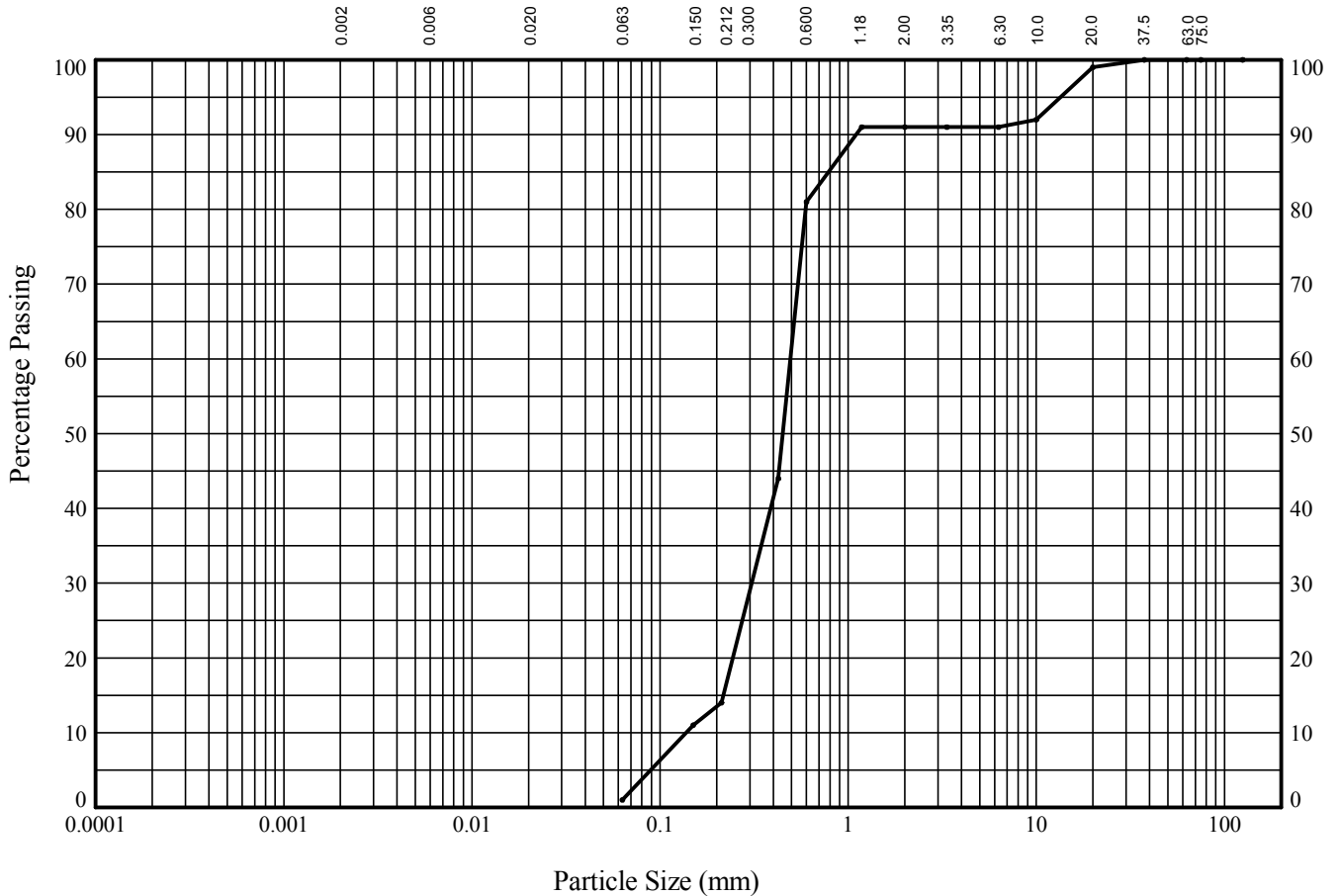
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PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Position ID: **CPB BP7** Sample Ref: **9** Sample Type: **B** Depth (m): **4.10**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

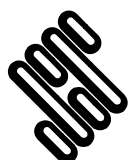
BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	99
10.0	92
6.30	91
3.35	91
2.00	91
1.18	91
0.600	81
0.425	44
0.212	14
0.150	11
0.063	1

Particle Diameter	Percentage Passing

Soil Fraction	Sieve Percentage
GRAVEL	9
SAND	90
SILT/CLAY	1

Soil Description:
Light brown slightly clayey gravelly SAND

Approved Signatories: J.BARRETT M.MATHORNE A.FROST M.RANDERSON R.CLARKSON M.FISHER C.COLE M.STOKES



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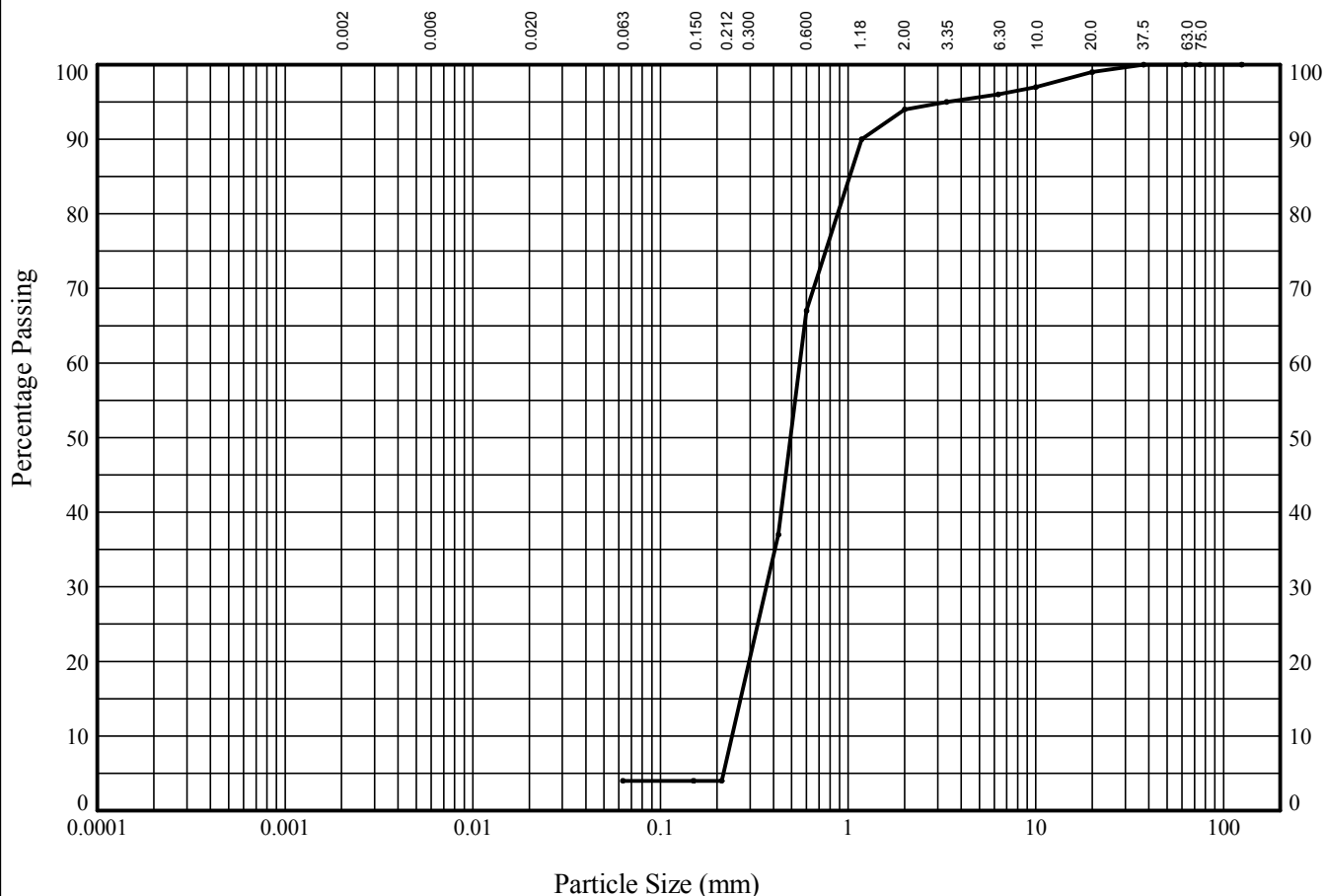
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PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Position ID: **CPB BP7** Sample Ref: **11** Sample Type: **B** Depth (m): **5.00**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

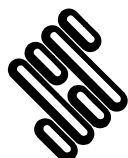
BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	99
10.0	97
6.30	96
3.35	95
2.00	94
1.18	90
0.600	67
0.425	37
0.212	4
0.150	4
0.063	4

Particle Diameter	Percentage Passing
0.075	4
0.15	4
0.3	37
0.6	67
1.18	90
2.0	94
3.35	95
6.30	96
10.0	97
20.0	99
37.5	100
75.0	100
150.0	100

Soil Fraction	Sieve Percentage
GRAVEL	6
SAND	90
SILT/CLAY	4

Soil Description:
Light brown slightly clayey gravelly SAND

Approved Signatories: J.BARRETT M.MATHORNE A.FROST M.RANDERSON R.CLARKSON M.FISHER C.COLE M.STOKES



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PARTICLE SIZE DISTRIBUTION TEST

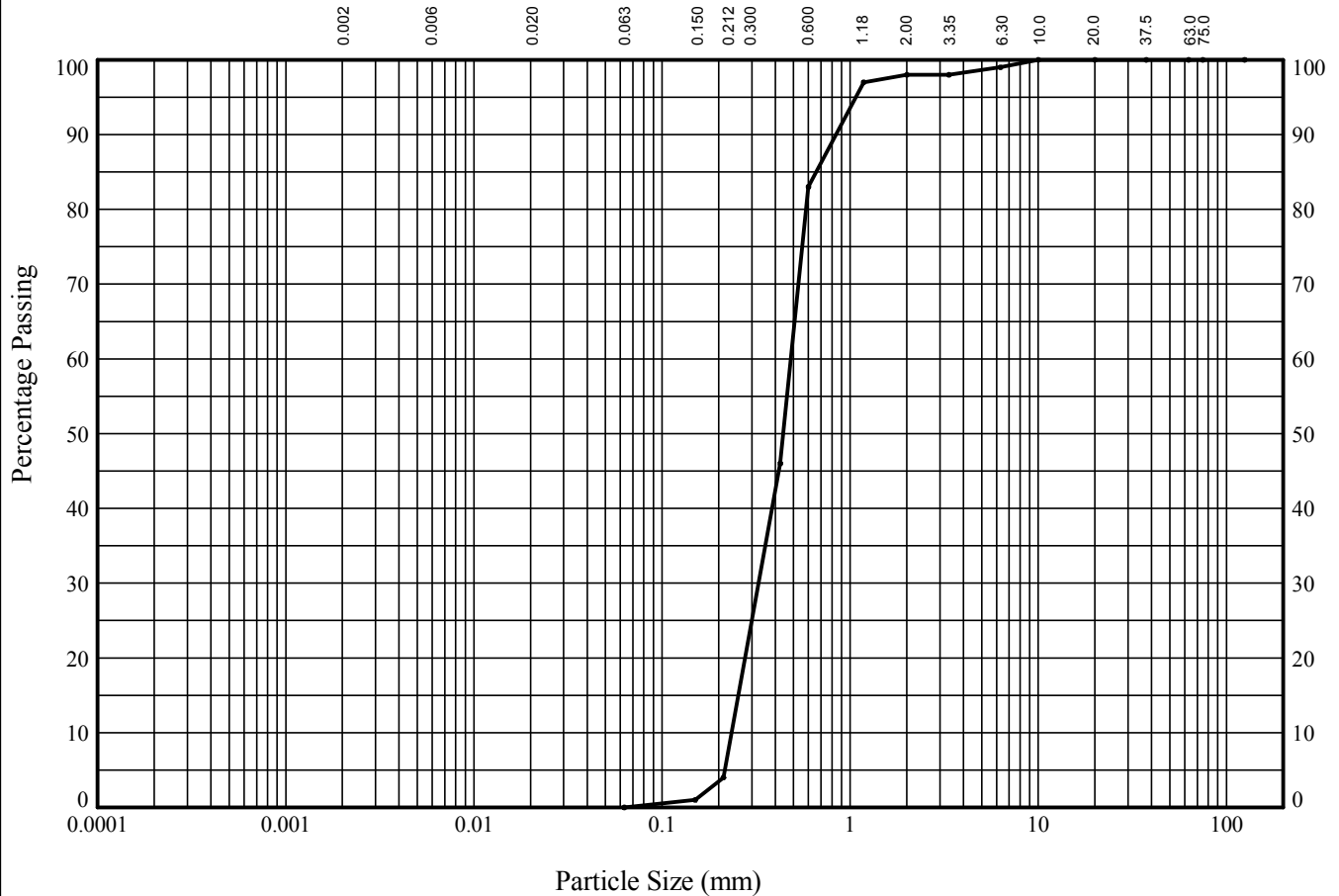
In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Position ID: **CPB BP7**

Sample Ref: **13**

Sample Type: **B**

Depth (m): **6.00**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

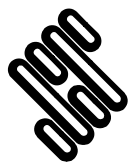
BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	100
6.30	99
3.35	98
2.00	98
1.18	97
0.600	83
0.425	46
0.212	4
0.150	1
0.063	0

Particle Diameter	Percentage Passing

Soil Fraction	Sieve Percentage
GRAVEL	2
SAND	98
SILT/CLAY	0

Soil Description:
Light brown slightly gravelly SAND

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Compiled By		Date
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 Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ, Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

PARTICLE SIZE DISTRIBUTION TEST

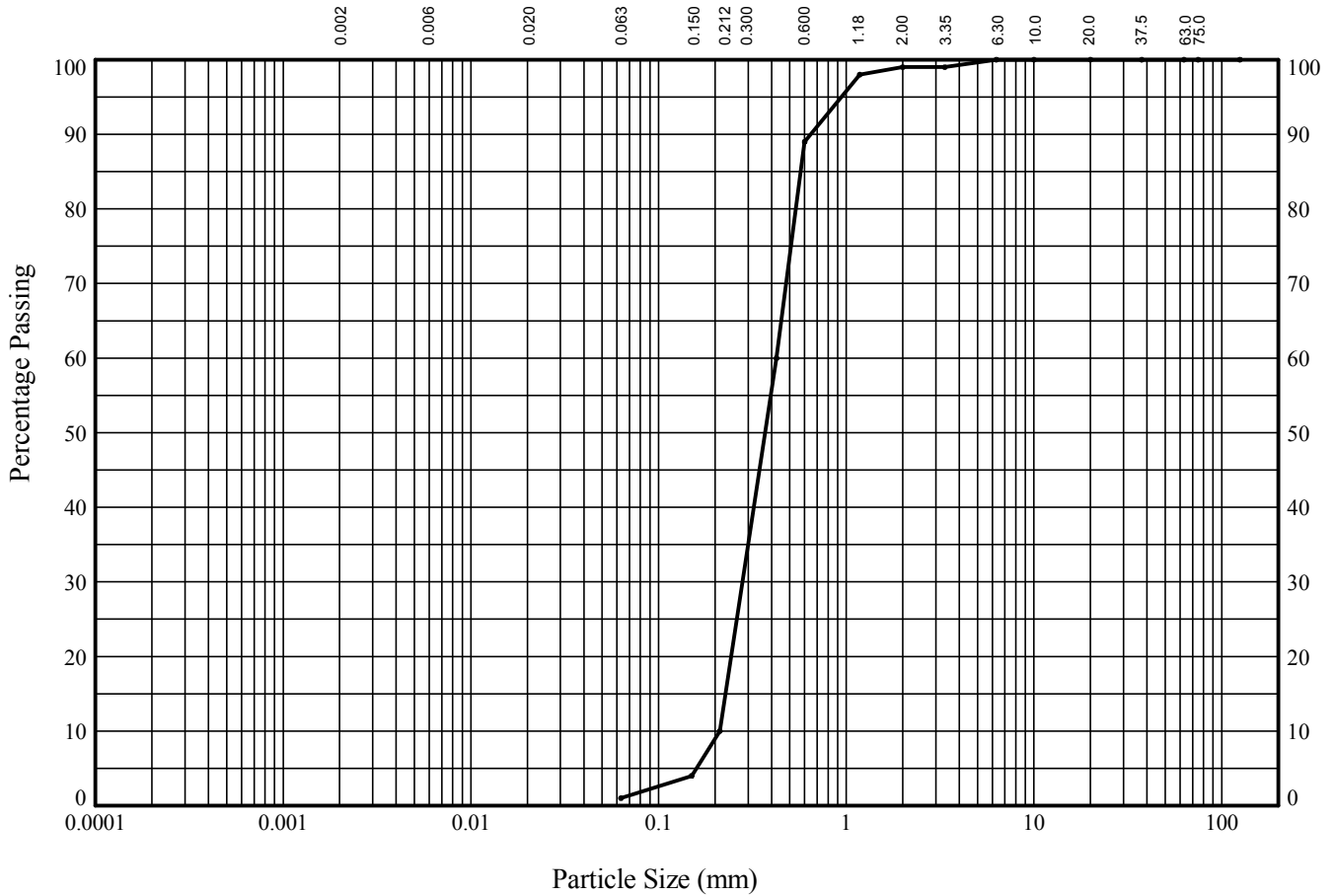
In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Position ID: **CPB BP7**

Sample Ref: **15**

Sample Type: **B**

Depth (m): **7.00**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

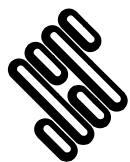
BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	100
6.30	100
3.35	99
2.00	99
1.18	98
0.600	89
0.425	60
0.212	10
0.150	4
0.063	1

Particle Diameter	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	100
6.30	100
3.35	99
2.00	99
1.18	98
0.600	89
0.425	60
0.212	10
0.150	4
0.063	1

Soil Fraction	Sieve Percentage
GRAVEL	1
SAND	98
SILT/CLAY	1

Soil Description:
Light orange brown slightly clayey slightly gravelly SAND

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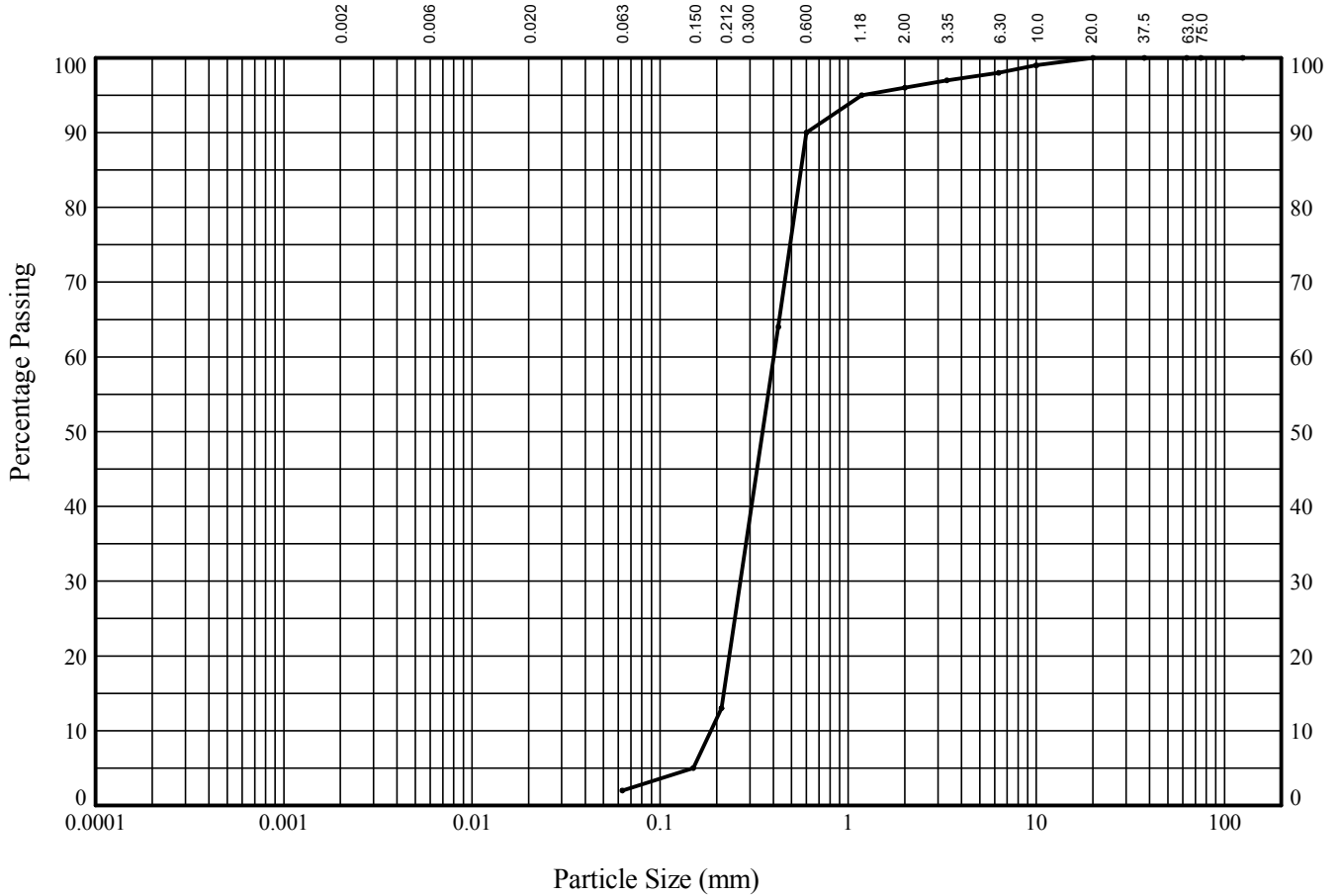
Compiled By		Date
		17/09/15
Contract		Contract Ref:
SZC 2015 Onshore GI		763468



PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Position ID: **CPB BP7** Sample Ref: **17** Sample Type: **B** Depth (m): **8.00**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

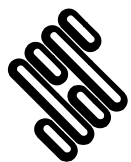
BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	99
6.30	98
3.35	97
2.00	96
1.18	95
0.600	90
0.425	64
0.212	13
0.150	5
0.063	2

Particle Diameter	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	99
6.30	98
3.35	97
2.00	96
1.18	95
0.600	90
0.425	64
0.212	13
0.150	5
0.063	2

Soil Fraction	Sieve Percentage
GRAVEL	4
SAND	94
SILT/CLAY	2

Soil Description:
Orange brown slightly clayey slightly gravelly SAND

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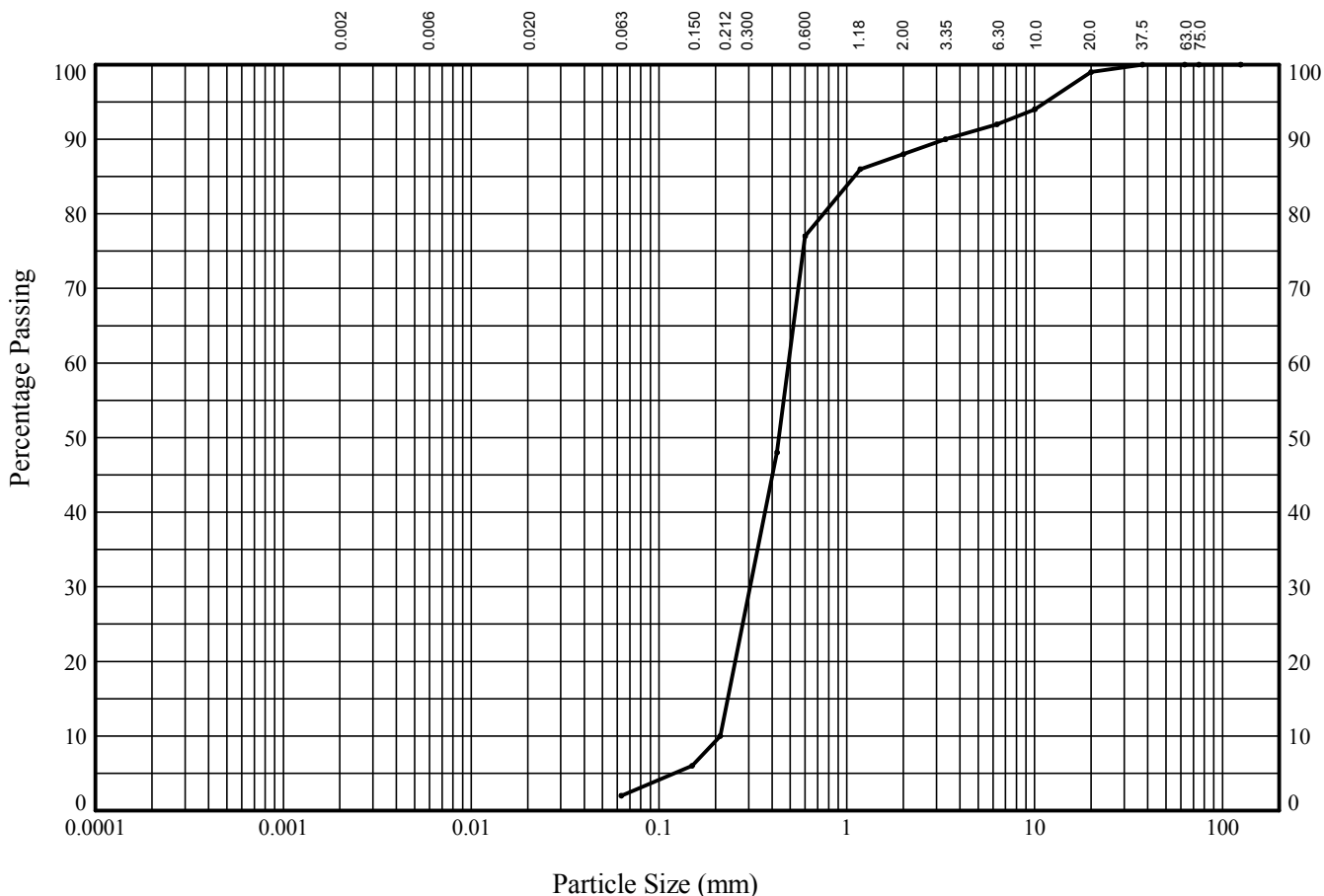
Compiled By		Date
		17/09/15
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PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Position ID: **CPB BP7** Sample Ref: **21** Sample Type: **B** Depth (m): **10.00**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

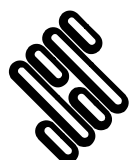
BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	99
10.0	94
6.30	92
3.35	90
2.00	88
1.18	86
0.600	77
0.425	48
0.212	10
0.150	6
0.063	2

Particle Diameter	Percentage Passing

Soil Fraction	Sieve Percentage
GRAVEL	12
SAND	86
SILT/CLAY	2

Soil Description:
Orange brown slightly clayey gravelly SAND

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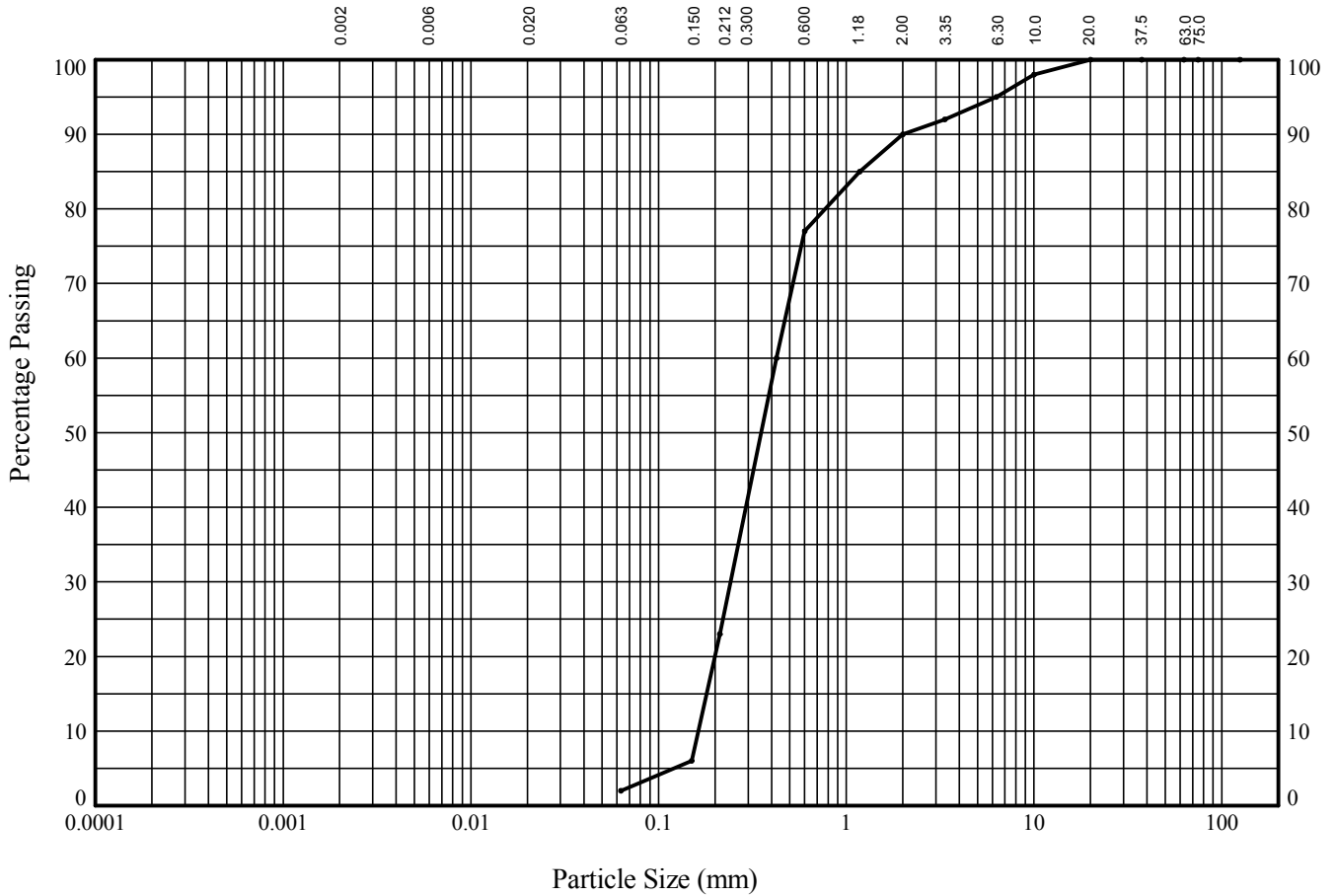
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PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Position ID: **CPB BP7** Sample Ref: **23** Sample Type: **B** Depth (m): **11.00**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	98
6.30	95
3.35	92
2.00	90
1.18	85
0.600	77
0.425	60
0.212	23
0.150	6
0.063	2

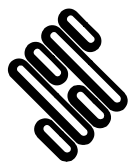
Particle Diameter	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	98
6.30	95
3.35	92
2.00	90
1.18	85
0.600	77
0.425	60
0.212	23
0.150	6
0.063	2

Soil Fraction	Sieve Percentage
GRAVEL	10
SAND	88
SILT/CLAY	2

Soil Description:

Dark orange brown slightly clayey gravelly SAND

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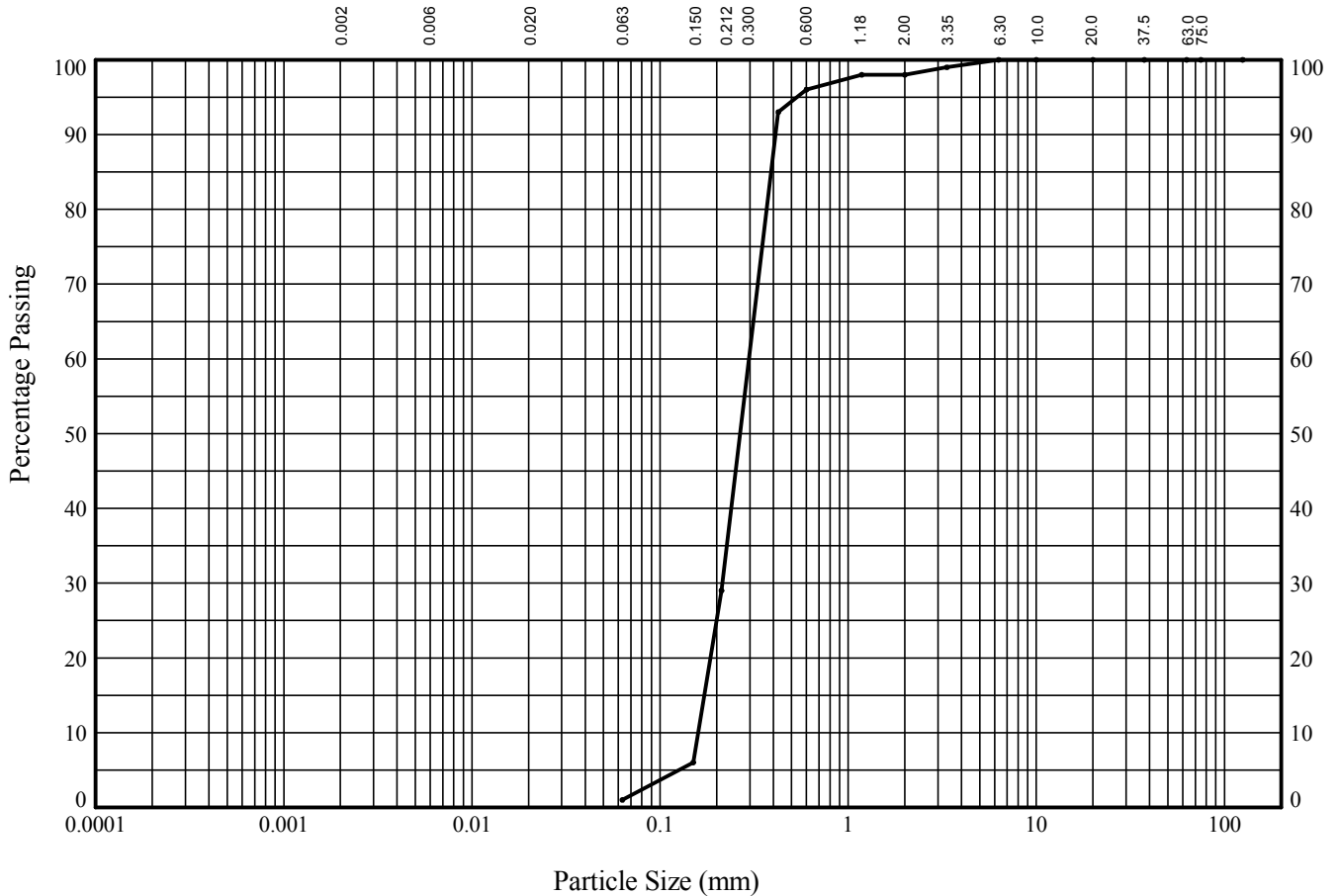
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PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Position ID: **CPB BP7** Sample Ref: **25** Sample Type: **B** Depth (m): **12.00**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

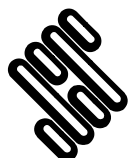
BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	100
6.30	100
3.35	99
2.00	98
1.18	98
0.600	96
0.425	93
0.212	29
0.150	6
0.063	1

Particle Diameter	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	100
6.30	100
3.35	99
2.00	98
1.18	98
0.600	96
0.425	93
0.212	29
0.150	6
0.063	1

Soil Fraction	Sieve Percentage
GRAVEL	2
SAND	97
SILT/CLAY	1

Soil Description:
Orange brown slightly clayey slightly gravelly SAND

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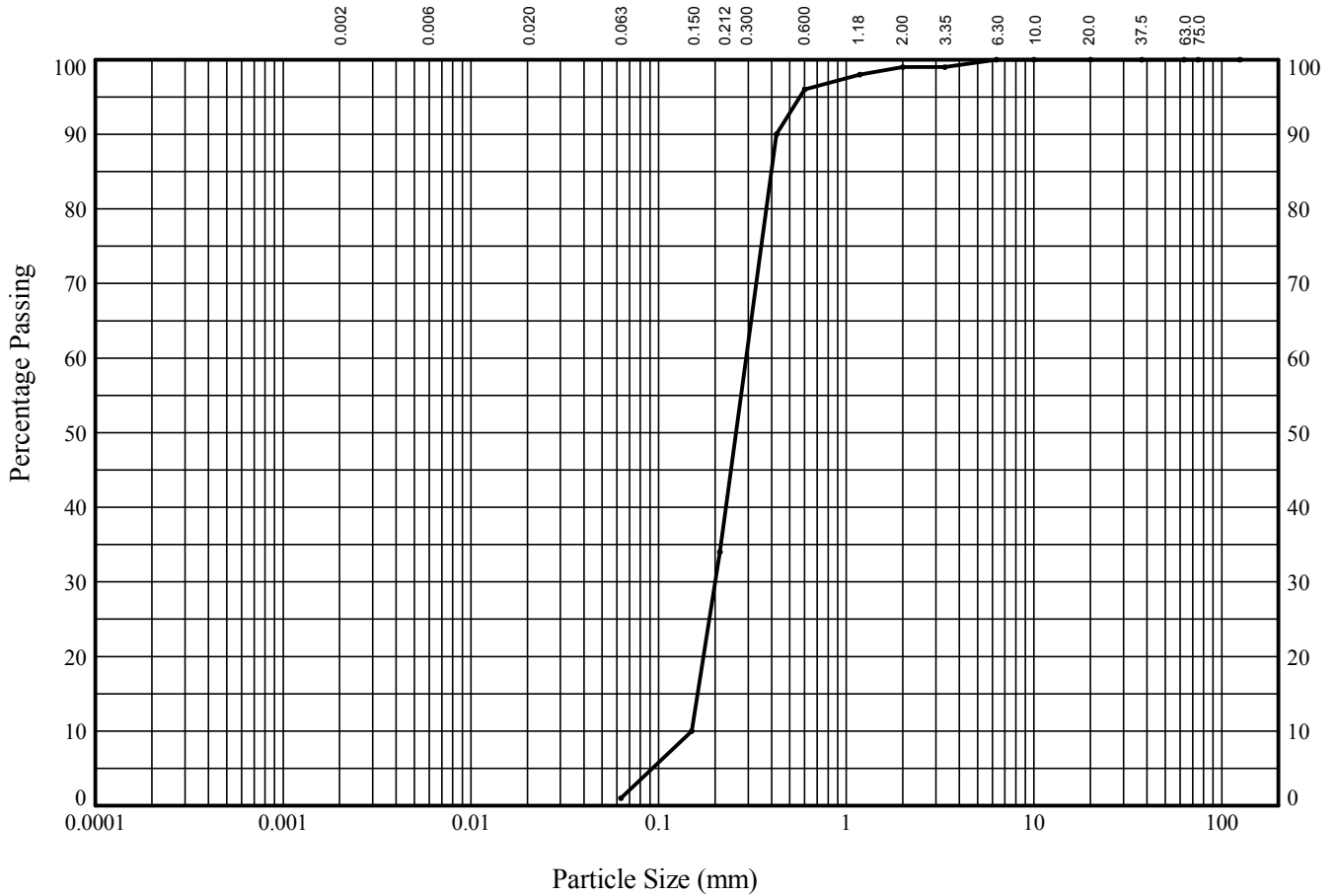
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Contract		Contract Ref:
SZC 2015 Onshore GI		763468



PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Position ID: **CPB BP7** Sample Ref: **27** Sample Type: **B** Depth (m): **13.00**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	100
6.30	100
3.35	99
2.00	99
1.18	98
0.600	96
0.425	90
0.212	34
0.150	10
0.063	1



Particle Diameter	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	100
6.30	100
3.35	99
2.00	99
1.18	98
0.600	96
0.425	90
0.212	34
0.150	10
0.063	1

Soil Fraction	Sieve Percentage
GRAVEL	1
SAND	98
SILT/CLAY	1

Soil Description:
Orange brown slightly clayey slightly gravelly SAND

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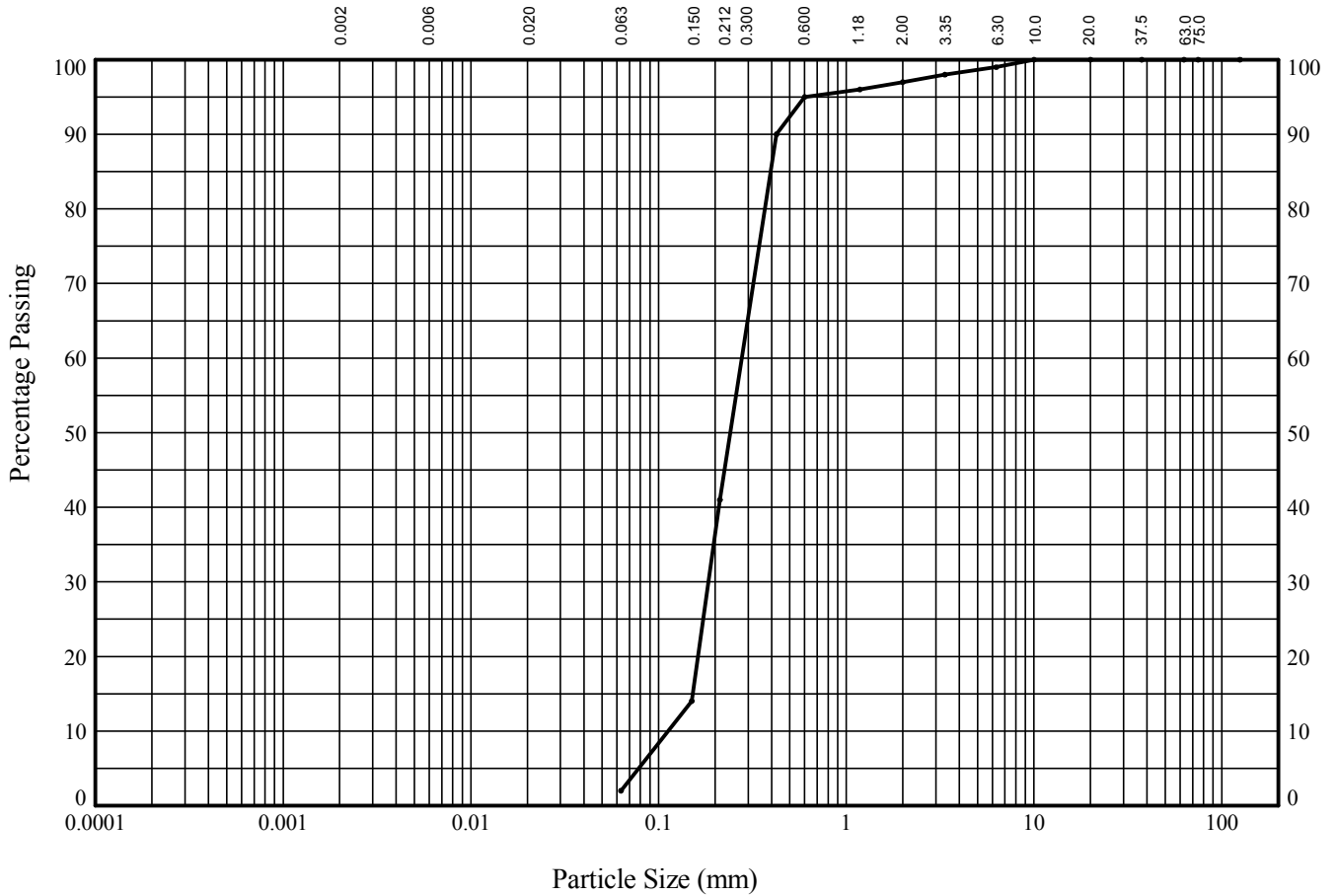
GINT_LIBRARY_V8_05_GLB LibVersion: v8_05 - Lib0004 ProjVersion: v8_05 - Core+Logs+Geotech Lab-Bristol - 0003 | Graph L - PSD - EC7 | 763468 - SZC 2015 ONSHORE GI.GPJ - v8_05 | 17/09/15 - 10:45 | SA.
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			17/09/15
	Contract		Contract Ref:
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PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Position ID: **CPB BP7** Sample Ref: **29** Sample Type: **B** Depth (m): **14.00**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	100
6.30	99
3.35	98
2.00	97
1.18	96
0.600	95
0.425	90
0.212	41
0.150	14
0.063	2

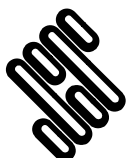
Particle Diameter	Percentage Passing

Soil Fraction	Sieve Percentage
GRAVEL	3
SAND	95
SILT/CLAY	2

Soil Description:
Orange brown slightly clayey slightly gravelly SAND

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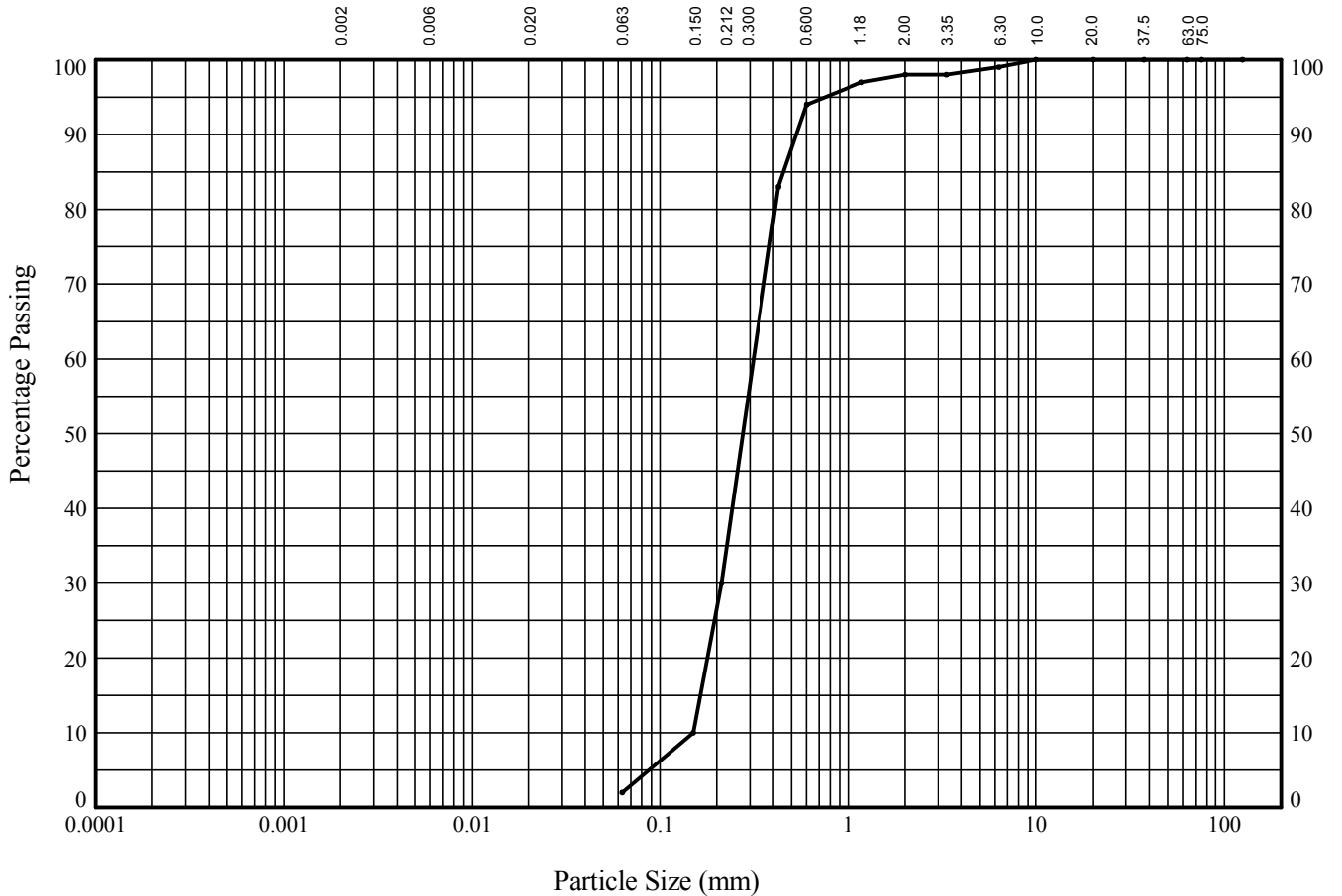
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SZC 2015 Onshore GI		763468



PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Position ID: **CPB BP7** Sample Ref: **31** Sample Type: **B** Depth (m): **15.00**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	100
6.30	99
3.35	98
2.00	98
1.18	97
0.600	94
0.425	83
0.212	30
0.150	10
0.063	2

Particle Diameter	Percentage Passing
0.075	2
0.15	10
0.6	94
1.18	97
2.5	98
5.0	98
11.8	99
25	99
50	99
100	99

Soil Fraction	Sieve Percentage
GRAVEL	2
SAND	96
SILT/CLAY	2

Soil Description:
Dark orange brown slightly clayey slightly gravelly SAND

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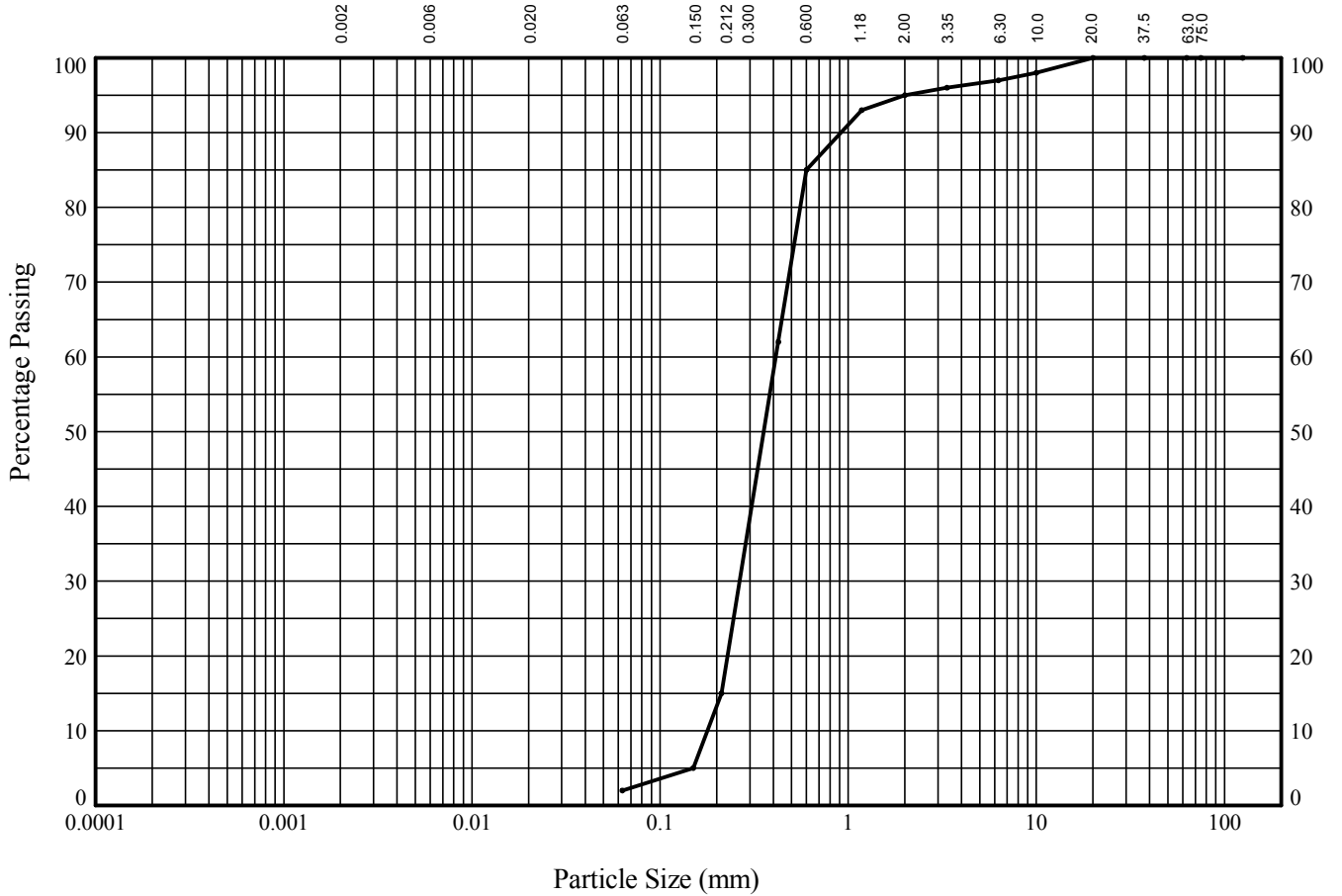
<p>STRUCTURAL SOILS The Potteries Pottery Street Castleford W. Yorkshire WF10 1NJ</p>	Compiled By		Date	
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	Contract		Contract Ref:	
	SZC 2015 Onshore GI		763468	



PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Position ID: **CPB BP7** Sample Ref: **33** Sample Type: **B** Depth (m): **16.00**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	98
6.30	97
3.35	96
2.00	95
1.18	93
0.600	85
0.425	62
0.212	15
0.150	5
0.063	2

Particle Diameter	Percentage Passing

Soil Fraction	Sieve Percentage
GRAVEL	5
SAND	93
SILT/CLAY	2

Soil Description:
Orange brown slightly clayey gravelly SAND

Approved Signatories: J.BARRETT M.MATHORNE A.FROST M.RANDERSON R.CLARKSON M.FISHER C.COLE M.STOKES

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	Contract	Contract Ref:	
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PARTICLE SIZE DISTRIBUTION TEST

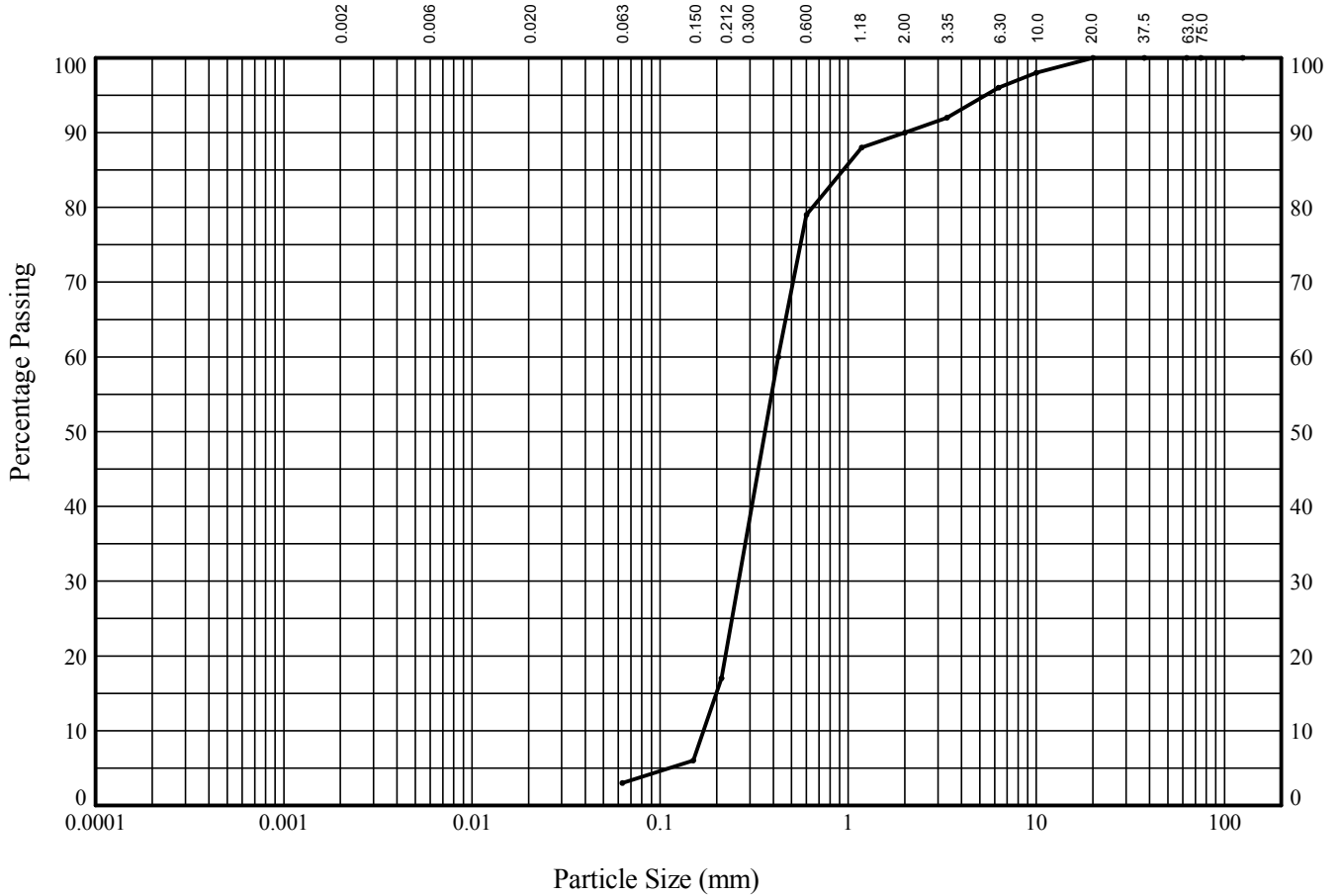
In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Position ID: **CPB BP7**

Sample Ref: **35**

Sample Type: **B**

Depth (m): **17.00**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	98
6.30	96
3.35	92
2.00	90
1.18	88
0.600	79
0.425	60
0.212	17
0.150	6
0.063	3

Particle Diameter	Percentage Passing

Soil Fraction	Sieve Percentage
GRAVEL	10
SAND	87
SILT/CLAY	3

Soil Description:
Dark orange brown slightly clayey gravelly SAND

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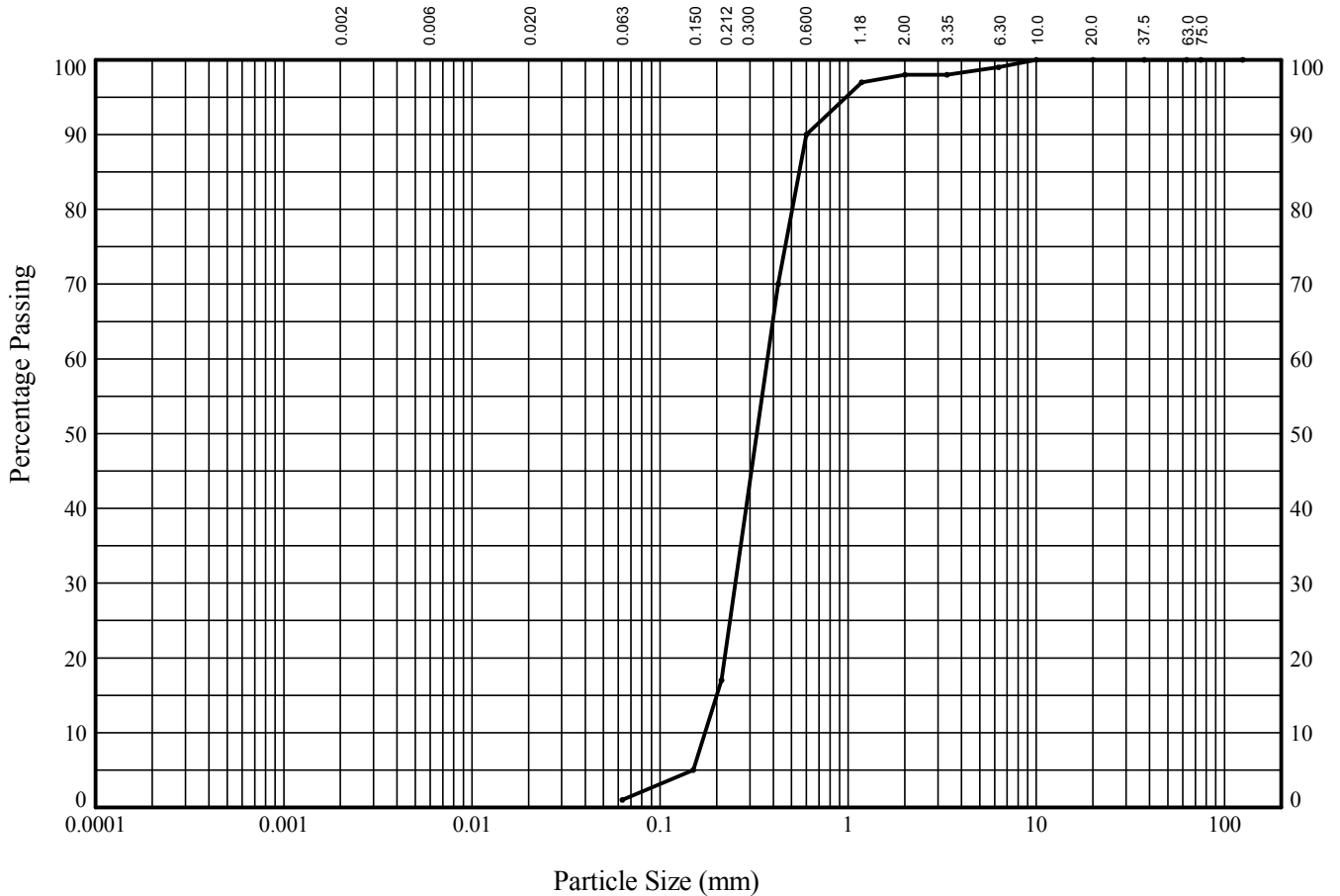
GINT_LIBRARY_V8_05_GLB LibVersion: v8_05 - Lib0004 ProjVersion: v8_05 - Core+Logs+Geotech Lab-Bristol - 0003 | Graph L - PSD - EC7 | 763468 - SZC 2015 ONSHORE GI.GPJ - v8_05 | 17/09/15 - 10:46 | SA. Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ, Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

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			17/09/15
	Contract	Contract Ref:	
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PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Position ID: **CPB BP7** Sample Ref: **37** Sample Type: **B** Depth (m): **18.00**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	100
6.30	99
3.35	98
2.00	98
1.18	97
0.600	90
0.425	70
0.212	17
0.150	5
0.063	1

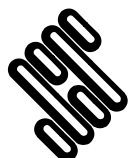
Particle Diameter	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	100
6.30	99
3.35	98
2.00	98
1.18	97
0.600	90
0.425	70
0.212	17
0.150	5
0.063	1

Soil Fraction	Sieve Percentage
GRAVEL	2
SAND	97
SILT/CLAY	1

Soil Description:

Orange brown slightly clayey slightly gravelly SAND

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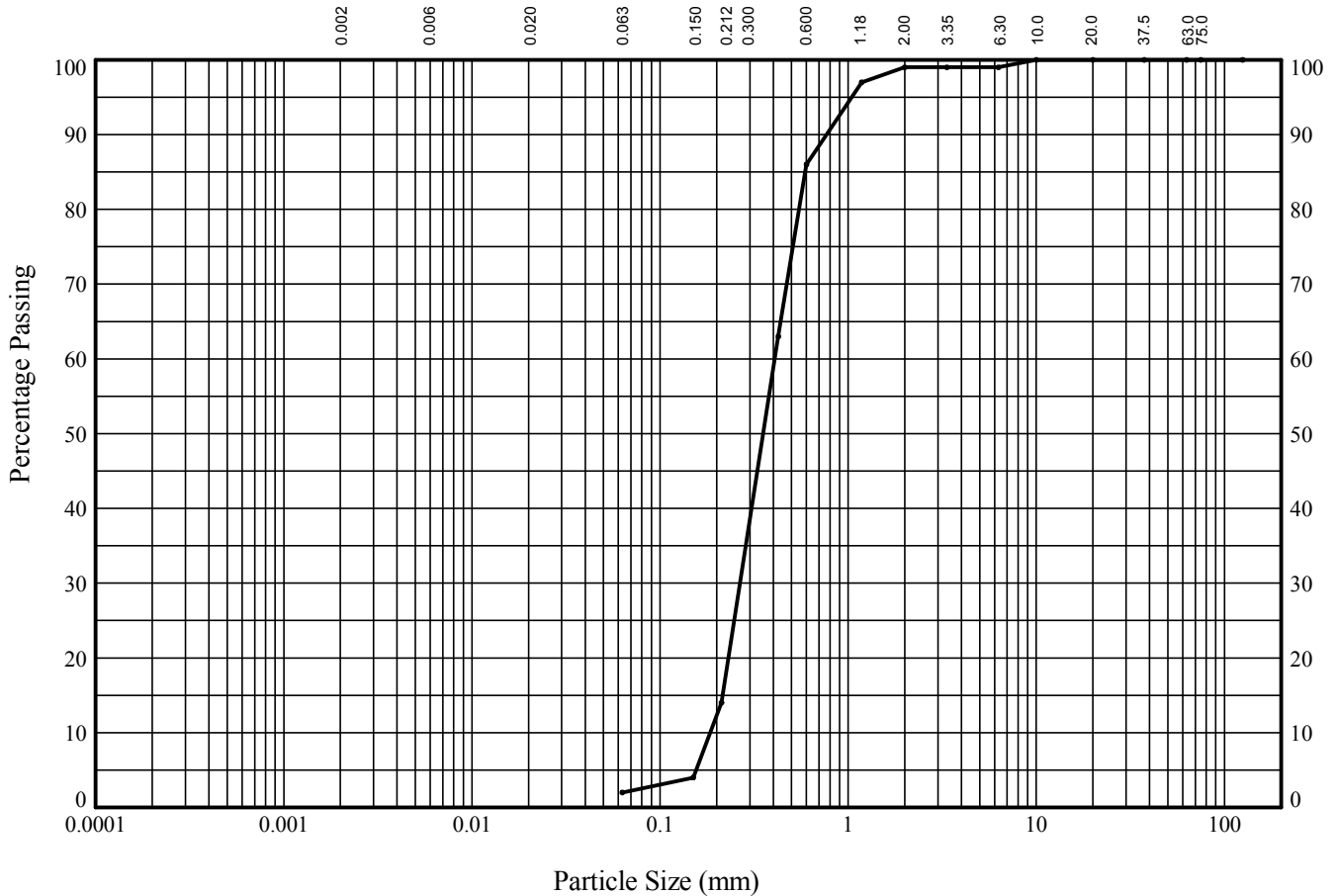
STRUCTURAL SOILS
The Potteries
Pottery Street
Castleford
W. Yorkshire WF10 1NJ

Compiled By		Date
		17/09/15
Contract	Contract Ref:	
SZC 2015 Onshore GI	763468	

PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Position ID: **CPB BP7** Sample Ref: **39** Sample Type: **B** Depth (m): **19.00**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

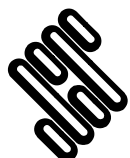
BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	100
6.30	99
3.35	99
2.00	99
1.18	97
0.600	86
0.425	63
0.212	14
0.150	4
0.063	2

Particle Diameter	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	100
6.30	99
3.35	99
2.00	99
1.18	97
0.600	86
0.425	63
0.212	14
0.150	4
0.063	2

Soil Fraction	Sieve Percentage
GRAVEL	1
SAND	97
SILT/CLAY	2

Soil Description:
Orange brown slightly clayey slightly gravelly SAND

Approved Signatories: J.BARRETT M.MATHORNE A.FROST M.RANDERSON R.CLARKSON M.FISHER C.COLE M.STOKES



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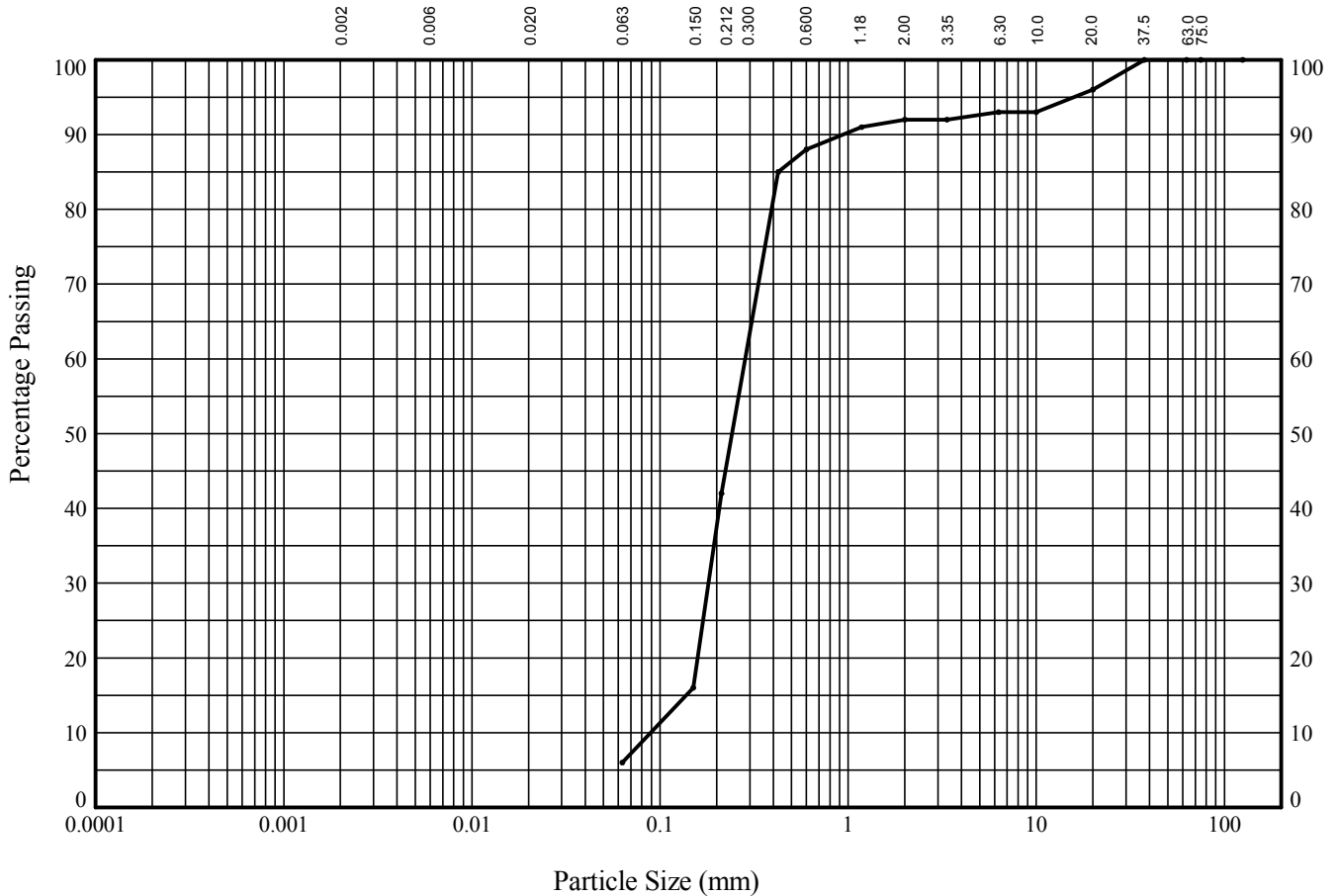
Compiled By		Date
		17/09/15
Contract		Contract Ref:
SZC 2015 Onshore GI		763468



PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Position ID: **CPB BP9** Sample Ref: **3** Sample Type: **B** Depth (m): **1.30**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

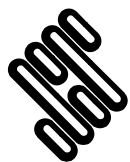
BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	96
10.0	93
6.30	93
3.35	92
2.00	92
1.18	91
0.600	88
0.425	85
0.212	42
0.150	16
0.063	6

Particle Diameter	Percentage Passing

Soil Fraction	Sieve Percentage
GRAVEL	8
SAND	86
SILT/CLAY	6

Soil Description:
Orange clayey gravelly SAND

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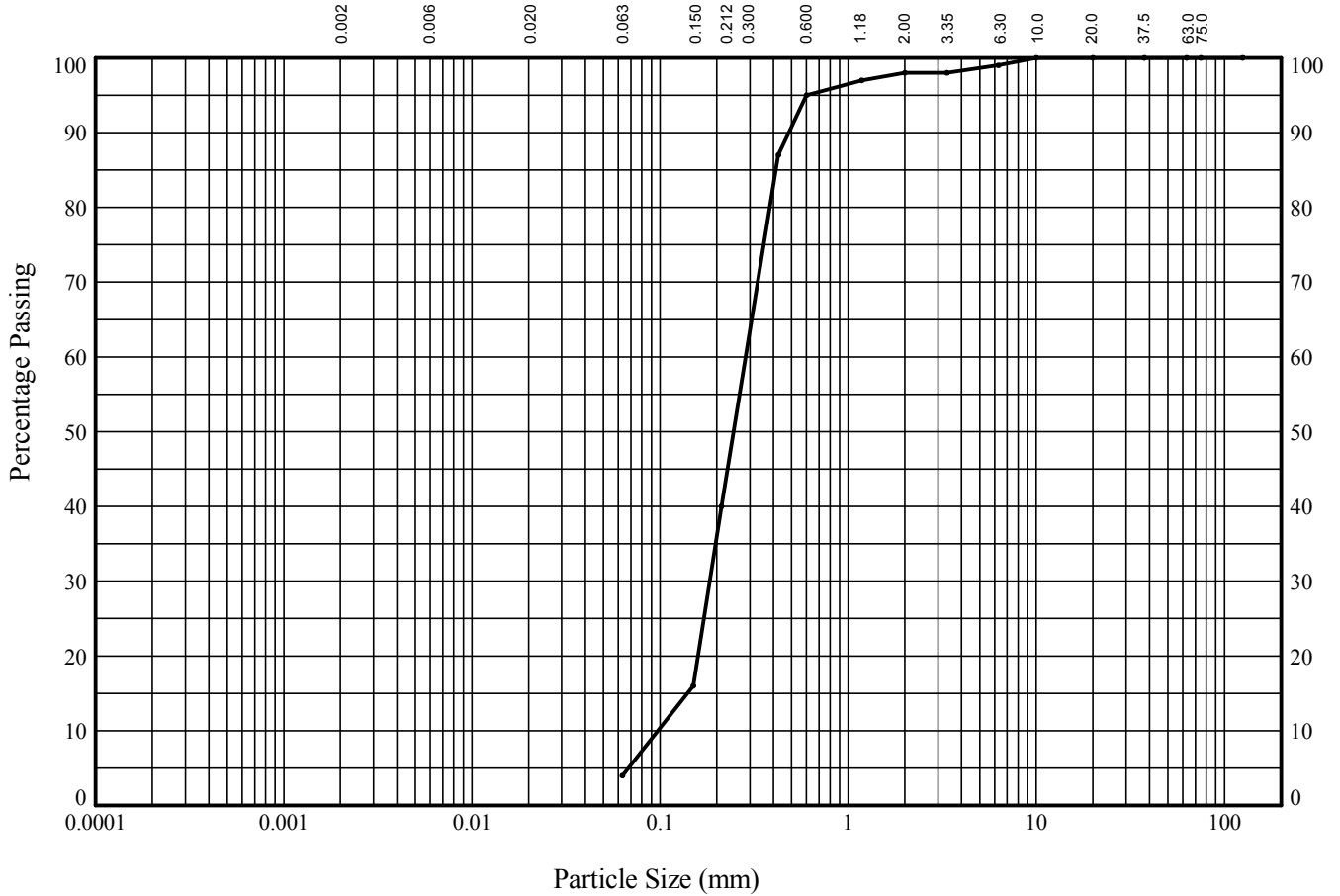
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Compiled By		Date
		17/09/15
Contract		Contract Ref:
SZC 2015 Onshore GI		763468

PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Position ID: **CPB BP9** Sample Ref: **5** Sample Type: **B** Depth (m): **2.00**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	100
6.30	99
3.35	98
2.00	98
1.18	97
0.600	95
0.425	87
0.212	40
0.150	16
0.063	4

Particle Diameter	Percentage Passing
0.075	4
0.150	16
0.300	40
0.600	95
1.18	97
2.00	98
3.35	98
6.30	99
10.0	100
20.0	100
37.5	100
63.0	100
75.0	100

Soil Fraction	Sieve Percentage
GRAVEL	2
SAND	94
SILT/CLAY	4

Soil Description:
Light brown slightly clayey slightly gravelly SAND

Approved Signatories: J.BARRETT M.MATHORNE A.FROST M.RANDERSON R.CLARKSON M.FISHER C.COLE M.STOKES

GINT_LIBRARY V8_05 GLB LibVersion: v8_05 - Lib0004 ProjVersion: v8_05 - Core+Logs+Geotech Lab-Bristol - 0003 | Graph L - PSD - EC7 | 763468 - SZC 2015 ONSHORE GI.GPJ - v8_05 | 17/09/15 - 10:46 | SA.
 Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ, Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk

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			17/09/15
	Contract SZC 2015 Onshore GI		Contract Ref: 763468