



Supplementary Environmental Information

Cherry Cobb Sands Phase 2 Site Investigation

Supplementary Report EX 31.5

June 2012
Revision: 0
Delta Simons Environmental

Note:

The following is a draft version of the Factual Cherry Cobb Sands Phase 2 Site Investigation.

At the time of printing a complete set of the analyses for both geo-chemical and geotechnical testing was not available. A complete report will be issued when data complete.



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A different perspective

**FACTUAL REPORT ON GEO-ENVIRONMENTAL
GROUND INVESTIGATION
CHERRY COBB SANDS, HU12 9JX**

**FOR
ABLE (UK)**

DELTA-SIMONS PROJECT NO. 10-2041.02



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environmental consultants

**FACTUAL REPORT ON GEO-
ENVIRONMENTAL GROUND INVESTIGATION
CHERRY COBB SANDS, HU12 9JX**

**FOR
ABLE (UK)**

DELTA-SIMONS PROJECT NO. 10-2041.02



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This Report was issued in June 2012 and prepared by:
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CHERRY COBB SANDS, HU12 9JX**

**FOR
ABLE (UK)
DELTA-SIMONS PROJECT NO. 10-2041.02**

1.0 INTRODUCTION

1.1 Authorisation

Delta-Simons Environmental Consultants Ltd (Delta-Simons) was instructed by Able (UK) Ltd to conduct an intrusive Geo-environmental Ground Investigation at Cherry Cobb Sands (hereafter referred to as the "Site").

1.2 Purpose

The purpose of the Geo-environmental Ground Investigation is to determine the ground and groundwater conditions at the Site to assist the Engineer, Able (UK) Ltd, in the geo-environmental appraisal of the Site in the context of the redevelopment of the Site, as an environmental compensation scheme.

1.3 Scope

In summary, the scope of works of the Geo-environmental Ground Investigation was as follows:

- Δ Undertake the advancement of 18 boreholes using cable-percussion techniques to a maximum depth of 7.00 m bgl (metres below ground level);
- Δ The excavation of 35 machine-dug trial pits to a maximum depth of 4.10 m bgl;
- Δ The excavation of 30 machine-dug trial trenches to a maximum depth of 4.10 m bgl;
- Δ Obtain the level and co-ordinates of each exploratory location;
- Δ Undertake both geotechnical and geo-chemical laboratory analysis as instructed by the Engineer; and
- Δ Present the factual findings of the investigation in a Geo-environmental Ground Investigation Report.

1.4 Limitations

Some of the intrusive locations were limited by, and in some instance required moving due to the requirements of the current land occupiers and the prevailing very wet weather conditions. The limitations were not, however, considered a significant constraint to the overall data collated as part of this investigation.

2.0 SITE DESCRIPTION

2.1 Site Location and Description

The Site, extending to approximately 100ha, is located approximately 5km to the south-west of the village of Thorngumbald, approximately 15km east of the city of Hull, in the East Riding of Yorkshire (Figure 1). The Site is centred, approximately, between National Grid Reference NGR TA 233192 and NGR TA 213218. The Site comprises arable farmland. The current Site layout is shown on Figure 1.

2.2 Published Geology

From the 1:50,000 scale Geological map (England and Wales, Sheet No. 81, Patrington, the Site is underlain by Marine and Estuarine Alluvium, overlying Glacial Till, rested on Cretaceous Chalk. The geological conditions identified during the intrusive Site Investigation are summarised in Section 4 of this Report.

Further background research such as a desk study was not required within the project remit.

2.3 Anecdotal Information

Anecdotal information derived from members of the public during the course of carrying out the intrusive investigation indicates that the former channels and tidal creeks that exist within the eastern half of the Site have been backfilled through traditional farming practices and, therefore, that they are likely to contain increased depths of topsoil and subsoil only.

3.0 SITE INVESTIGATION

3.1 General

The locations of the exploratory holes were determined on-Site by the Engineer, with amendments to their locations as per the limitations detailed in Section 1 of this Report, to provide a representative coverage of the Site, taking account of the presence of existing structures, and known underground field drainage. In order to avoid damage to underground services, intrusive locations were positioned with reference to the results of a service avoidance exercise undertaken by Delta-Simons.

The approximate locations of the exploratory holes are shown on Figures 2, 3 and 4.

3.2 Cable Percussion Boreholes

Eighteen cable-percussion boreholes (BH 1 to BH 18) were advanced using a Dando cable percussion rig to a maximum depth of 7.00 m bgl, between the 27th April and 4th May 2012 under the supervision of Delta-Simons. Standard penetration tests were carried out at approximately 1.5 m intervals in all materials encountered, while bulk and undisturbed samples were recovered from throughout the borehole and regular intervals.

Groundwater was recorded as seepages and damp in all exploratory holes, though, it is considered possible that these observations were distorted due to the waterlogged Site conditions at the time of the investigation.

The locations of the Cable Percussion boreholes are shown on Figure 2 and logs are provided as Appendix I.

3.3 Trial Pits

Thirty five trial-pits (TP 1 – TP 35) were advanced using a wheeled backhoe excavator to depths of between 2.50 m and 4.10 m bgl, between the 7rd and 14th of May 2012. Both bulk and small disturbed samples were recovered from the trial pits. Groundwater was recorded as seepages and damp in all trial pits, though, it is considered possible that these observations were distorted due to the waterlogged Site conditions at the time of the investigation. The locations of the trial pits are shown on Figure 3 and logs are provided as Appendix II.

3.4 Trial Trenches

Thirty trial trenches (TR 101 – TR 126) were advanced using a tracked 13 tonne excavator to depths of between 2.50 m and 4.10 m bgl, between the 7th and 14th May 2012. Both bulk and small disturbed samples were recovered from the trial trenches. Groundwater was recorded as seepages and damp in all trial trenches, though, it is considered possible that these observations were distorted due to the waterlogged Site conditions at the time of the investigation. The location of the trial trenches is shown on Figure 4 and logs are provided as Appendix II.

3.5 Soil Sampling

Soil samples were recovered for geotechnical and geo-chemical analysis at selected intervals during the advancement of the trial pits, trial trenches and the boreholes. Samples were stored and transported in appropriate containers, at suitable temperatures, in order to avoid cross-contamination of samples or degradation of sample quality.

3.6 Laboratory Analysis

The location, depth and suite of analysis selected for each soil sample and location is summarised in Appendix III.

4.0 OBSERVED GROUND CONDITIONS

4.1 Ground Conditions

Full details of the ground conditions encountered during the investigation are shown on the exploratory hole logs in Appendix I & II; in general, the ground conditions encountered during the investigation comprised:

TOPSOIL overlying undifferentiated beds of SAND, SILT and CLAY (possible re-worked Made Ground) rested upon LOOSE TO MEDIUM DENSE SILT, and SAND.

5.0 LIMITATIONS TO GEOTECHNICAL INVESTIGATIONS

Delta-Simons obtained, reviewed and evaluated information from the Client, property owner, local authority and others. Delta-Simons' conclusions, opinions and recommendations are based on this information, on observations made during the Site reconnaissance, on 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 and water conditions between or below intrusive locations. It should also be noted that groundwater levels vary due to seasonal or other effects and may at times differ to those measured during the investigation.

The observations contained in this Report represent our findings within the limitations of agreed scope of works. These observations were arrived at in accordance with currently accepted industry best practices and, as such, are not a guarantee that the Site is free of hazardous or potentially hazardous materials or conditions.

Delta-Simons Environmental Consultants Limited prepared this Report for our Client. Any third parties using this Report do so entirely at their own risk. Delta-Simons makes no warranty or representation whatsoever, express or implied, with respect to the use by a third party of any information contained in this Report or its suitability for any purpose. Delta-Simons assumes no responsibility for any costs, claims, damages or expenses (including any consequential damages) resulting from the use of this Report or any information contained in this Report by a third party.

This Report was prepared by:

[Redacted Signature]

Kevin McGee
Geo-Environmental Consultant

27th June 2012
Date

This Report was reviewed and authorised by:

[Redacted Signature]

Jax Fox
Senior Consultant and Unit Manager

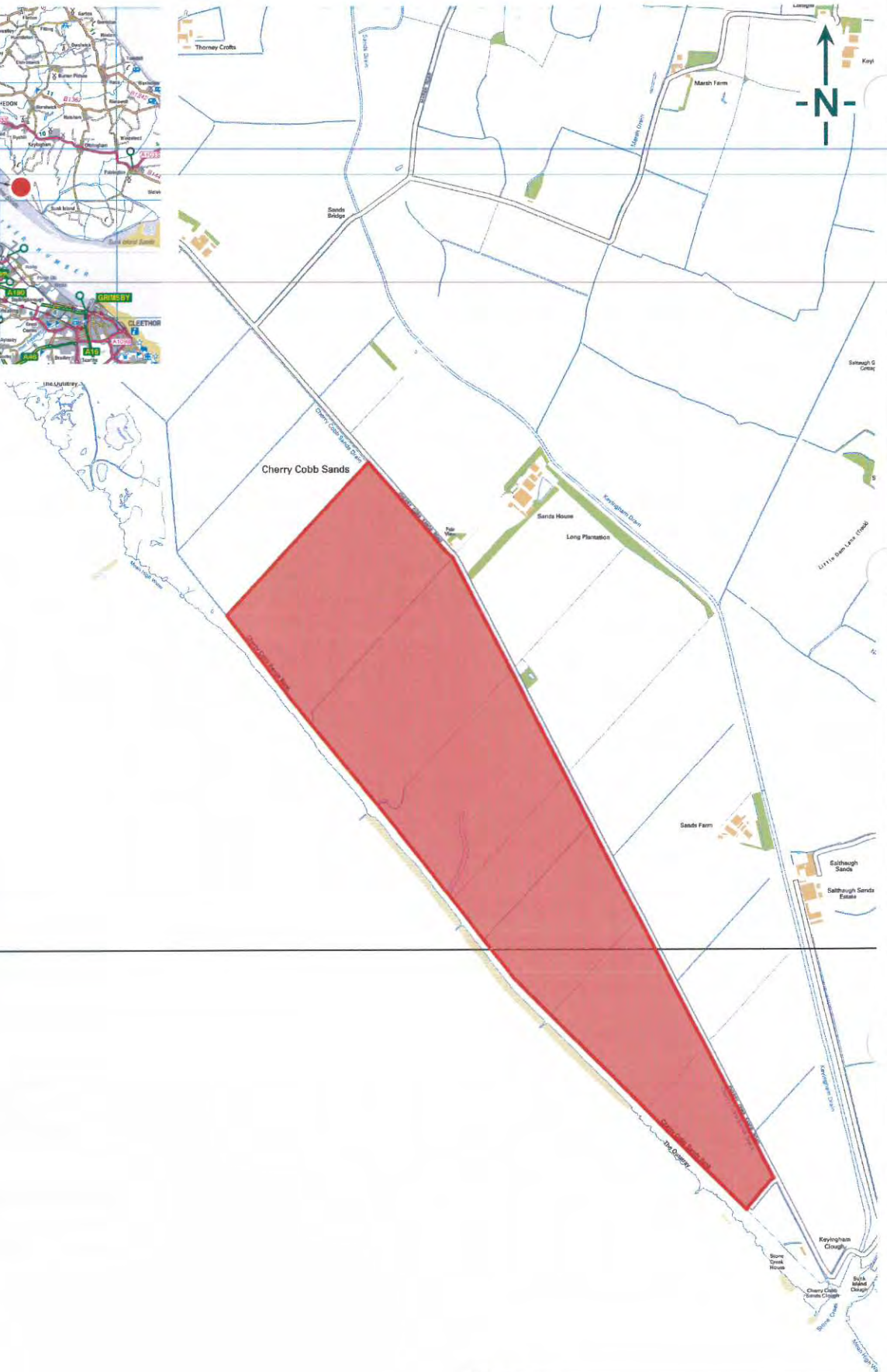
27/06/12
Date

Figures



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A different perspective



LEGEND

Site Boundary

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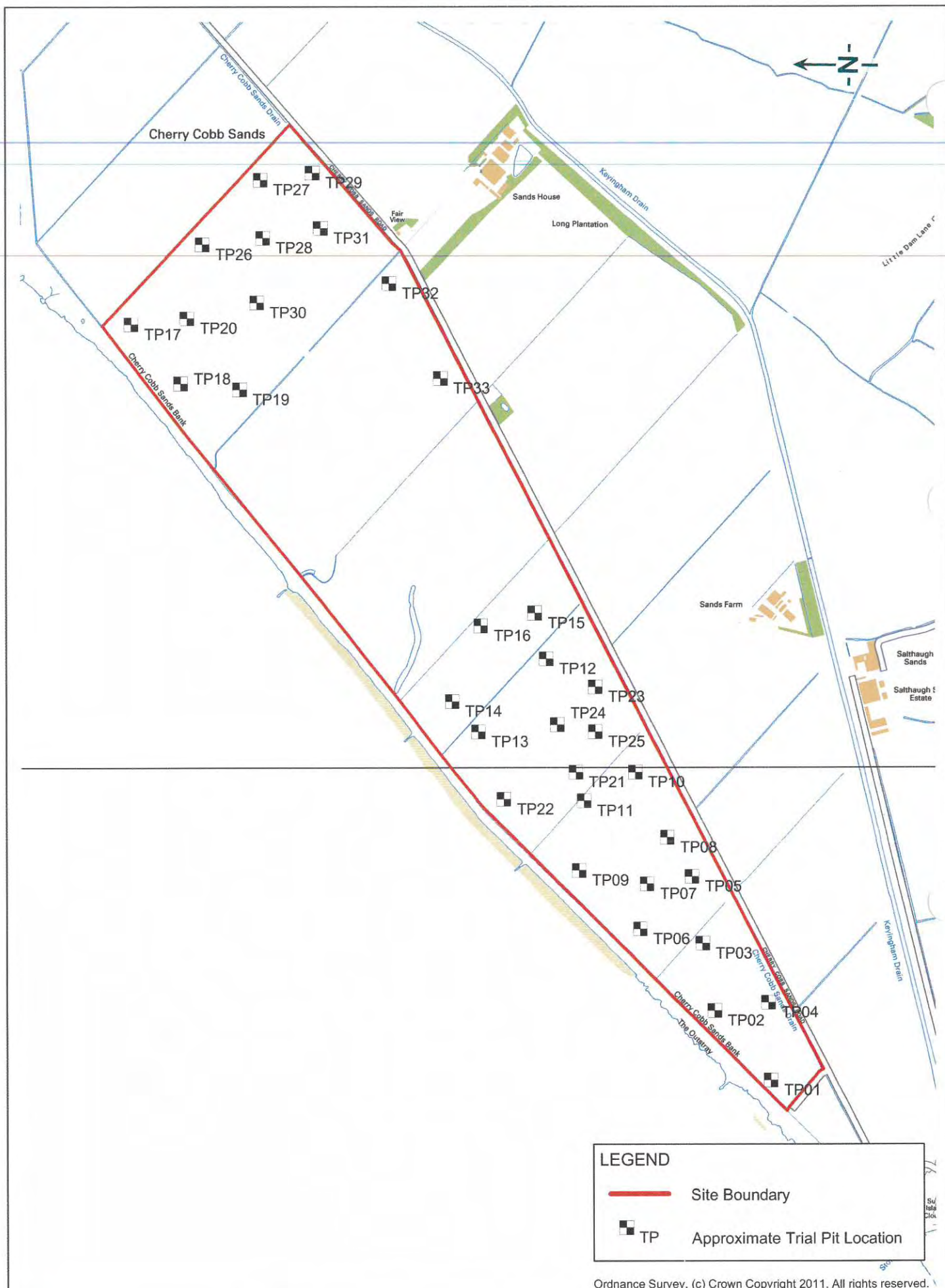
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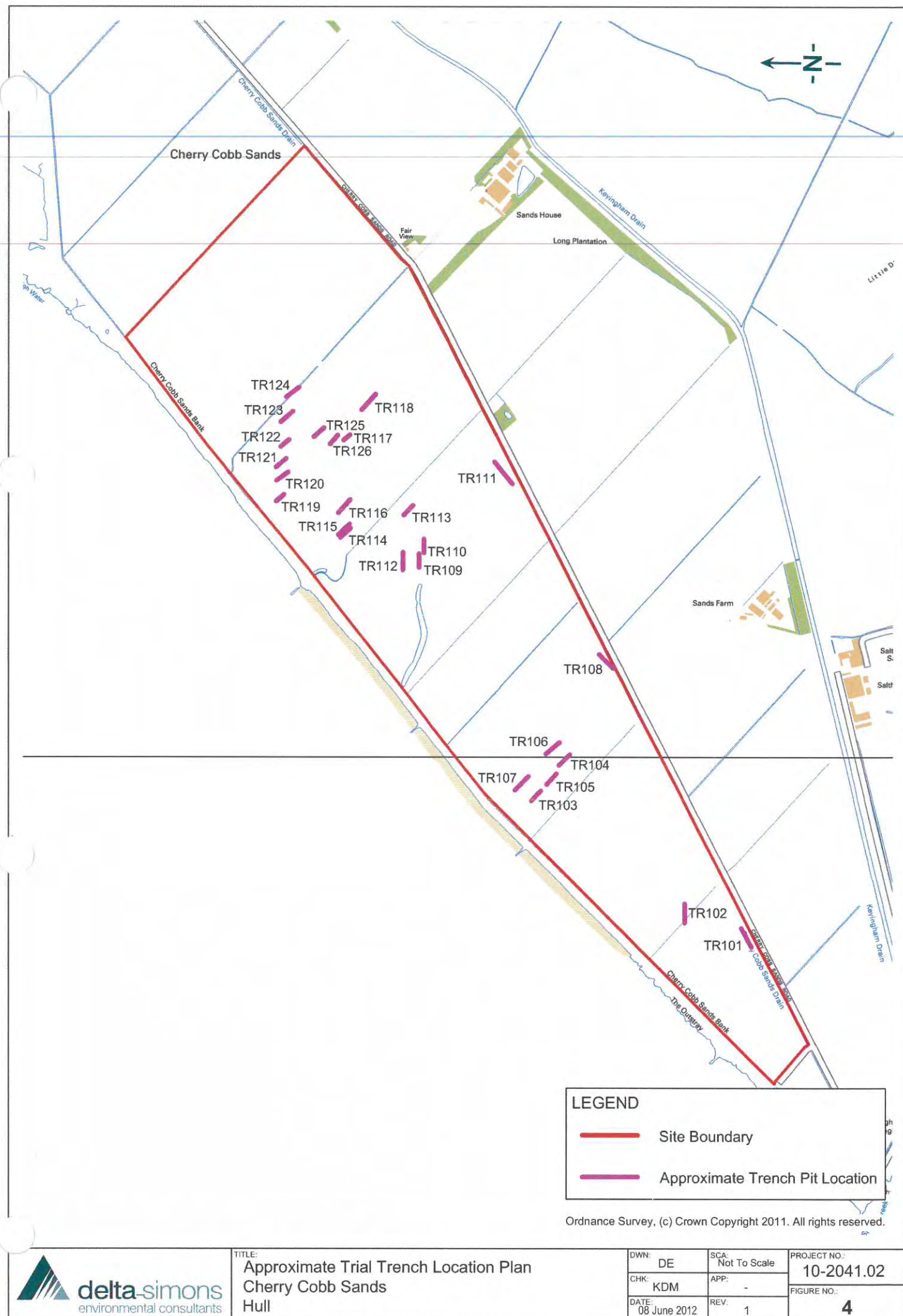


TITLE:
Site Location and Layout Plan
Cherry Cobb Sands
Hull

DWN:	DE	SCA:	To Scale@A4
CHK:	KDM	REV:	1
DATE:	08 June 2012		

PROJECT NO:	10-2041.02
FIGURE NO:	1





Appendix I



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A different perspective

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Project:	Cherry Cobb Sands	Project No:	10-2041.02	Hole ID:	BH01
		Date:	01/05/2012	Client:	ABLE (UK) Ltd

Description Of Strata	Legend	Water	Casing Depth / (Diam. mm) Date	Depth (Thickness)	Core Recovery				Depth / Core Length	Sample Details		Test Results	Backfill Details
					Flush Return %	TCR %	SCR %	RQD %		Type	Ref.		
Brown clayey TOPSOIL. (POSSIBLE MADE GROUND).				0.30					0.00 - 0.30	D	1D		
Very soft light brown very sandy CLAY. Sand is fine.				(1.60)					0.50 - 1.00	B	2B		
									1.00 - 1.45	ES	3J		
				1.90					1.50 - 2.00	B	4B		
Loose grey silty fine SAND.			(150mm)						2.00 - 2.45	ES	5J	CPT N=1 1,0/0,1,0,0	
									2.50 - 3.00	B	6B		
									3.00 - 3.45	ES	7J	CPT N=6 1,1/1,1,2,2	
									3.50 - 4.00	B	8B		
				(5.05)					4.00 - 4.45	ES	9J	CPT N=5 1,1/1,1,1,2	
									4.50 - 5.00	B	10B		
									5.00 - 5.45	ES	11J	CPT N=9 1,1/2,2,2,3	
									5.50 - 6.00	B	12B		
									6.50 - 6.95	ES	13J	CPT N=12 2,3/2,3,3,4	
Borehole complete at 6.95 m bgl.			6.95	6.95									

REMARKS :

- Engineer verified logged in general accordance with BS 5930.
- Borehole remained dry on completion.
- Backfilled with arisings.

WATER LEVEL OBSERVATIONS

Date	Time	Water Strike	Standing Level	Casing Depth



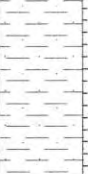
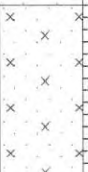
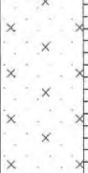

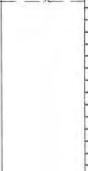
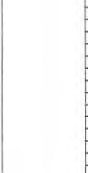
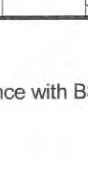

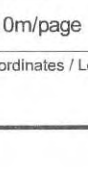

NO WATER ENCOUNTERED:

All measurements in metres unless otherwise stated	10m/page Scale: 1:62.50	No Coordinate Data Available No Datum Information Available		Page 1 of 1
Plant Used: Dando 150	Coordinates / Level (mAOD):	Logged By: SW	Checked By: KDM	Approved By:

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Project:	Cherry Cobb Sands	Project No:	10-2041.02	Hole ID:	BH02
		Date:	01/05/2012	Client:	ABLE (UK) Ltd

Description Of Strata	Legend	Water	Casing Depth / (Diam. mm) Date	Depth (Thickness)	Flush Return %	Core Recovery			Depth / Core Length	Sample Details		Test Results	Backfill Details
						TCR %	SCR %	RQD %		Type	Ref.		
Brown clayey TOPSOIL. (POSSIBLE MADE GROUND).				0.30					0.00 - 0.30	D	1D	CPT N=6 1,1/1,1,2,2	
Soft light brown very sandy CLAY. Sand is fine. (POSSIBLE MADE GROUND).				(1.60)					0.50 - 1.00	B	2B		
									1.00 - 1.45	ES	3J		
									1.50 - 2.00	B	4B		
Loose grey silty fine SAND.		(150mm)		1.90					2.00 - 2.45	ES	5J	CPT N=4 1,1/1,1,1,1	
				2.50 - 3.00					B	6B			
				3.00 - 3.45					ES	7J	CPT N=3 1,1/0,1,1,1		
				3.50 - 4.00					B	8B			
				4.00 - 4.45					ES	9J	CPT N=3 1,0/1,1,0,1		
				4.50 - 5.00					B	10B			
				5.00 - 5.45					ES	11J	CPT N=7 1,1/2,2,2,1		
				5.50 - 6.00					B	12B			
				6.60 - 7.05								CPT N=10 1,2/2,3,2,3	
			7.05	7.05									
Borehole complete at 7.05 m bgl.													

REMARKS :

1. Engineer verified logged in general accordance with BS 5930.
2. Borehole remained dry on completion.
3. Backfilled with arisings.

WATER LEVEL OBSERVATIONS

Date	Time	Water Strike	Standing Level	Casing Depth

NO WATER ENCOUNTERED:

All measurements in metres
 unless otherwise stated

10m/page Scale: 1:62.50

No Coordinate Data Available
 No Datum Information Available

Page 1 of 1

Plant Used: Dando 150	Coordinates / Level (mAOD):	Logged By: CS	Checked By: KDM	Approved By:
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Project:	Cherry Cobb Sands	Project No:	10-2041.02	Hole ID:	BH03
		Date:	01/05/2012	Client:	ABLE (UK) Ltd

Description Of Strata	Legend	Water	Casing Depth / (Diam. mm) Date	Depth (Thickness)	Flush Return %	Core Recovery				Depth / Core Length	Sample Details		Test Results	Backfill Details
						TCR %	SCR %	RQD %			Type	Ref.		
Brown clayey TOPSOIL. (POSSIBLE MADE GROUND).				(0.80)						0.50 - 1.00	B	1B		
Soft light brown very sandy CLAY. Sand is fine. (POSSIBLE MADE GROUND).				0.80						1.00 - 1.45	ES	2J	CPT N=3 1,1/1,1,1,0	
				(1.30)						1.50 - 2.00	B	3B		
				2.10						2.00 - 2.45	ES	4J	CPT N=5 1,0/1,2,1,1	
Loose grey silty fine SAND.			(150mm)							2.50 - 3.00	B	5B		
										3.00 - 3.45	ES	6J	CPT N=6 1,1/1,2,1,2	
										3.50 - 4.00	B	7B		
										4.00 - 4.45	ES	8J	CPT N=5 1,1/1,1,1,2	
				(4.95)						4.50 - 5.00	B	9B		
										5.00 - 5.45	ES	10J	CPT N=10 1,2/2,3,3,2	
										5.50 - 6.00	B	11B		
										6.60 - 7.05	ES	12J	CPT N=13 2,3/3,4,3,3	
Borehole complete at 7.05 m bgl.			7.05	7.05										

REMARKS :

- Engineer verified logged in general accordance with BS 5930.
- Borehole remained dry on completion.
- Backfilled with arisings.

WATER LEVEL OBSERVATIONS

Date	Time	Water Strike	Standing Level	Casing Depth

NO WATER ENCOUNTERED:

All measurements in metres unless otherwise stated

10m/page

Scale: 1:62.50

No Coordinate Data Available
No Datum Information Available

Page 1 of 1

Plant Used:	Dando 150	Coordinates / Level (mAOD):	Logged By:	CS	Checked By:	KDM	Approved By:
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 environmental consultants

Project:	Cherry Cobb Sands	Project No:	10-2041.02	Hole ID:	BH04
		Date:	27/04/2012	Client:	ABLE (UK) Ltd

Description Of Strata	Legend	Water	Casing Depth / (Diam. mm) Date	Depth (Thickness)	Flush Return %	Core Recovery				Depth / Core Length	Sample Details		Test Results		Backfill Details
						TCR %	SCR %	CRD %			Type	Ref.	SPT N Value/Drive mm		
Brown clayey TOPSOIL. (POSSIBLE MADE GROUND).				(0.80)						0.60	D	1D			
				0.80						0.80 - 1.00	B	2B			
Loose light brown slightly clayey fine to medium SAND. (POSSIBLE MADE GROUND).				(1.50)						1.00 - 1.45	D	3D	CPT N=7 1,1/1,2,2,2		
										1.50 - 2.00	B	4B			
				2.30						2.00 - 2.45	D	5D	CPT N=2 1,0/0,1,1,0		
Loose damp grey silty fine SAND.			(150mm)							2.50 - 3.00	B	6B			
										3.00 - 3.45	D	7D	CPT N=4 1,0/1,1,1,1		
										3.50 - 4.00	B	8B			
				(4.75)						4.00 - 4.45	D	9D	CPT N=10 1,2/3,3,2,2		
										4.50 - 5.00	B	10B			
										5.00 - 5.45	D	11D	CPT N=9 1,2/2,3,2,2		
										5.50 - 6.00	B	12B			
										6.60 - 7.05	D	13D	CPT N=13 2,2/3,3,4,3		
Borehole complete at 7.05 m bgl.			7.05	7.05											

REMARKS :

1. Engineer verified logged in general accordance with BS 5930.
2. Borehole remained dry on completion.
3. Backfilled with arisings.

WATER LEVEL OBSERVATIONS

Date	Time	Water Strike	Standing Level	Casing Depth

NO WATER ENCOUNTERED:

All measurements in metres unless otherwise stated	10m/page Scale: 1:62.50	No Coordinate Data Available No Datum Information Available		Page 1 of 1
Plant Used: Dando 150	Coordinates / Level (mAOD):	Logged By: CS	Checked By: KDM	Approved By:

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Project:	Cherry Cobb Sands	Project No:	10-2041.02	Hole ID:	BH05
		Date:	30/05/2012	Client:	ABLE (UK) Ltd

Description Of Strata	Legend	Water	Casing Depth / (Diam. mm) Date	Depth (Thickness)	Core Recovery				Depth / Core Length	Sample Details		Test Results	Backfill Details
					Flush Return %	TCR %	SCR %	RQD %		Type	Ref.		
Brown clayey TOPSOIL. (POSSIBLE MADE GROUND).				(0.60) 0.60					0.50 - 1.00	B	1B		
Soft light brown very sandy CLAY. Sand is fine. (POSSIBLE MADE GROUND).				(1.60) 2.20					1.00 - 1.45 1.50 - 2.00 2.00 - 2.45	ES B ES	2J 3B 4J	CPT N=4 1,0/1,1,1,1	
Grey silty fine SAND, becoming medium to dense with depth.			(150mm)	(4.90) 7.10					2.50 - 3.00 3.00 - 3.45 3.50 - 4.00 4.00 - 4.45 4.50 - 5.00 5.00 - 5.45 5.50 - 6.00 6.65 - 7.10	B ES B ES B ES B ES	5B 6J 7B 8J 9B 10J 11B 12J	CPT N=4 1,1/1,1,1,1 CPT N=5 1,2/2,1,1,1 CPT N=9 2,3/2,2,2,3 CPT N=15 3,3/4,3,4,4 CPT N=14 2,3/3,3,4,4	
Borehole complete at 7.1 m bgl.													

REMARKS :

1. Engineer verified logged in general accordance with BS 5930.
2. Borehole remained dry on completion.
3. Backfilled with arisings.

WATER LEVEL OBSERVATIONS

Date	Time	Water Strike	Standing Level	Casing Depth






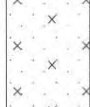
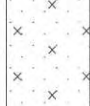
NO WATER ENCOUNTERED:

All measurements in metres unless otherwise stated	10m/page Scale: 1:62.50	No Coordinate Data Available No Datum Information Available	Page 1 of 1
Plant Used: Dando 150	Coordinates / Level (mAOD):	Logged By: CS	Checked By: KDM Approved By:

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Project:	Cherry Cobb Sands	Project No:	10-2041.02	Hole ID:	BH06
		Date:	30/05/2012	Client:	ABLE (UK) Ltd

Description Of Strata	Legend	Water	Casing Depth / (Diam. mm) Date	Depth (Thickness)	Flush Return %	Core Recovery			Depth / Core Length	Sample Details		Test Results	Backfill Details	
						TCR %	SCR %	RQD %		Type	Ref.	SPT N Value/Drive mm		
Brown clayey TOPSOIL. (POSSIBLE MADE GROUND).			(150mm)	(0.80)					0.50 - 1.00	B	1B	CPT N=2 1,0/0,1,1,0 CPT N=4 1,1/1,1,1,1 CPT N=6 1,2/2,1,1,2 CPT N=8 1,2/2,2,2,2 CPT N=9 1,1/2,2,2,3 CPT N=13 3,2/3,3,4,3		
Soft light brown sandy CLAY. Sand is fine. (POSSIBLE MADE GROUND).				0.80					1.00 - 1.45	ES	2J			
				(1.30)					1.50 - 2.00	B	3B			
				2.10					2.00 - 2.45	ES	4J			
Loose grey silty fine SAND.									(4.95)	2.50 - 3.00	B			5B
	3.00 - 3.45									ES	6J			
	3.50 - 4.00									B	7B			
	4.00 - 4.45									ES	8J			
	4.50 - 5.00									B	9B			
	5.00 - 5.45									ES	10J			
	5.50 - 6.00									B	11B			
	6.60 - 7.05									ES	12J			
Borehole complete at 7.05 m bgl.				7.05	7.05									

REMARKS :

1. Engineer verified logged in general accordance with BS 5930.
2. Borehole remained dry on completion.
3. Backfilled with arisings.

WATER LEVEL OBSERVATIONS

Date	Time	Water Strike	Standing Level	Casing Depth

NO WATER ENCOUNTERED:

All measurements in metres unless otherwise stated	10m/page Scale: 1:62.50	No Coordinate Data Available No Datum Information Available		Page 1 of 1
Plant Used: Dando 150	Coordinates / Level (mAOD):	Logged By: CS	Checked By: KDM	Approved By:

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Project:	Cherry Cobb Sands	Project No:	10-2041.02	Hole ID:	BH07
		Date:	27/05/2012	Client:	ABLE (UK) Ltd

Description Of Strata	Legend	Water	Casing Depth / (Diam. mm) Date	Depth (Thickness)	Core Recovery				Depth / Core Length	Sample Details		Test Results	Backfill Details
					Flush Return %	TCR %	SCR %	RQD %		Type	Ref.		
Brown clayey TOPSOIL. (POSSIBLE MADE GROUND).				0.41					0.50 - 1.00	B	1B		
Loose brown silty fine SAND. (POSSIBLE MADE GROUND).				(0.99)					1.00 - 1.45	D	2D	CPT N=2 1,1/0,1,1,0	
				1.40					1.50 - 2.00	B	3B		
Loose damp grey silty fine SAND.			(150mm)	(5.65)					2.00 - 2.45	D	4D	CPT N=2 1,0/0,1,0,1	
									2.50 - 3.00	B	5B		
									3.00 - 3.45	D	6D	CPT N=4 1,0/1,1,1,1	
									3.50 - 4.00	B	7B		
									4.00 - 4.45	D	8D	CPT N=4 1,0/1,1,1,1	
									4.50 - 5.00	B	9B		
									5.00 - 5.45	D	10D	CPT N=8 1,0/2,2,2,2	
									5.50 - 6.00	B	11B		
									6.60 - 7.05	D	12D	CPT N=12 2,2/2,3,4,3	
Borehole complete at 7.05 m bgl.				7.05									

REMARKS :

1. Engineer verified logged in general accordance with BS 5930.
2. Borehole remained dry on completion.
3. Backfilled with arisings.

WATER LEVEL OBSERVATIONS

Date	Time	Water Strike	Standing Level	Casing Depth

NO WATER ENCOUNTERED:

All measurements in metres unless otherwise stated	10m/page Scale: 1:62.50	No Coordinate Data Available No Datum Information Available		Page 1 of 1
Plant Used: Dando 150	Coordinates / Level (mAOD):	Logged By: CS	Checked By: KDM	Approved By:

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Project:	Cherry Cobb Sands	Project No:	10-2041.02	Hole ID:	BH08
		Date:	27/05/2012	Client:	ABLE (UK) Ltd

Description Of Strata	Legend	Water	Casing Depth / (Diam. mm) Date	Depth (Thickness)	Core Recovery				Depth / Core Length	Sample Details		Test Results	Backfill Details
					Flush Return %	TCR %	SCR %	ROD %		Type	Ref.		
Brown clayey TOPSOIL. (POSSIBLE MADE GROUND).				(0.65)									
				0.65					0.70 - 1.00	B	1B		
Very soft light brown sandy silty CLAY. Sand is fine.				1.10					1.00 - 1.45	D	2D	CPT N=1 1,0/0,1,0,0	
Loose damp light grey silty fine SAND with some pockets of soft clay.				(1.25)					1.50 - 2.00	B	3B		
				2.35					2.00 - 2.45	D	4D	CPT N=5 1,2/1,1,2,1	
Loose damp grey silty fine SAND.				(4.70)					2.50 - 3.00	B	5B		
									3.00 - 3.45	D	6D	CPT N=4 1,1/0,1,2,1	
									3.50 - 4.00	B	7B		
									4.00 - 4.45	D	8D	CPT N=9 2,3/3,2,2,2	
									4.50 - 5.00	B	9B		
									5.00 - 5.45	D	10D	CPT N=8 2,2/1,2,2,3	
									6.00 - 6.50	B	11B		
									6.60 - 7.05	D	12D	CPT N=13 2,2/3,3,3,4	
			7.05	7.05									
Borehole complete at 7.05 m bgl.													

REMARKS :

1. Engineer verified logged in general accordance with BS 5930.
2. Borehole remained dry on completion.
3. Backfilled with arisings.

WATER LEVEL OBSERVATIONS

Date	Time	Water Strike	Standing Level	Casing Depth

NO WATER ENCOUNTERED:

All measurements in metres unless otherwise stated	10m/page Scale: 1:62.50	No Coordinate Data Available No Datum Information Available	Page 1 of 1
Plant Used: Dando 150	Coordinates / Level (mAOD):	Logged By: CS	Checked By: KDM Approved By:

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Project:	Cherry Cobb Sands	Project No:	10-2041.02	Hole ID:	BH09
		Date:	02/05/2012	Client:	ABLE (UK) Ltd

Description Of Strata	Legend	Water	Casing Depth / (Diam. mm) Date	Depth (Thickness)	Flush Return %	Core Recovery				Depth / Core Length	Sample Details		Test Results	Backfill Details
						TCR %	SCR %	RQD %			Type	Ref.		
Brown clayey TOPSOIL. (POSSIBLE MADE GROUND).				(0.58) 0.58						0.50 - 1.00	B	1B		
Loose light brown slightly clayey fine to medium SAND. (POSSIBLE MADE GROUND).				(0.62) 1.20						1.00 - 1.45	D	2D	CPT N=4 1,1/1,0,2,1	
Loose brown fine SAND. (POSSIBLE MADE GROUND).				(1.10) 2.30						1.50 - 2.00	B	3B		
										2.00 - 2.45	D	4D	CPT N=7 1,2/2,2,2,1	
Loose damp grey silty fine SAND.										2.50 - 3.00	B	5B		
										3.00 - 3.45	D	6D	CPT N=7 1,2/2,1,2,2	
										3.50 - 4.00	B	7B		
										4.00 - 4.45	D	8D	CPT N=7 1,2/2,2,1,2	
										4.50 - 5.00	B	9B		
										5.00 - 5.45	D	10D	CPT N=8 1,2/2,2,2,2	
										5.50 - 6.00	B	11B		
										6.36 - 7.05 6.60 - 7.05	D	12D	CPT N=7 1,2/1,2,2,2	
Borehole complete at 7.05 m bgl.			7.05	7.05										

REMARKS :

1. Engineer verified logged in general accordance with BS 5930.
2. Borehole remained dry on completion.
3. Backfilled with arisings.

WATER LEVEL OBSERVATIONS

Date	Time	Water Strike	Standing Level	Casing Depth






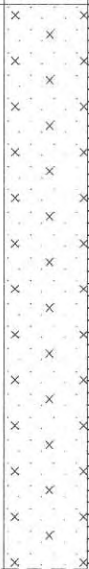
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All measurements in metres unless otherwise stated	10m/page Scale: 1:62.50	No Coordinate Data Available No Datum Information Available	Page 1 of 1
Plant Used: Dando 150	Coordinates / Level (mAOD):	Logged By: CS	Checked By: KDM Approved By:

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Project:	Cherry Cobb Sands	Project No:	10-2041.02	Hole ID:	BH11
		Date:	03/05/2012	Client:	ABLE (UK) Ltd

Description Of Strata	Legend	Water	Casing Depth / (Diam. mm) Date	Depth (Thickness)	Flush Return %	Core Recovery			Depth / Core Length	Sample Details		Test Results	Backfill Details			
						TCR %	SCR %	RqD %		Type	Ref.			SPT N Value/Drive mm		
Brown clayey TOPSOIL. (POSSIBLE MADE GROUND).				(0.80)					0.50 - 0.80	B	1B	CPT N=3 1,0/1,0,1,1				
				0.80												
Soft light brown sandy CLAY. Sand is fine. (POSSIBLE MADE GROUND).				(0.50)												
				1.30												
Loose brown silty fine SAND.				(1.10)												
				2.40												
Light grey silty fine SAND.				(150mm)					(4.65)	2.50 - 3.00	B			7B	CPT N=2 1,0/0,1,0,1	
										3.00 - 3.45	D			8D		
										3.50 - 4.00	B			9B		
										4.00 - 4.45	D			10D		CPT N=2 1,1/0,1,0,1
										4.50 - 5.00	B			11B		
										5.00 - 5.45	D			12D		CPT N=9 1,1/2,2,3,2
										6.00 - 6.60	B			12B		
										6.60 - 7.05	D			14D		CPT N=10 1,2/2,2,3,3
Borehole complete at 7.05 m bgl.		7.05	7.05													

REMARKS :

- Engineer verified logged in general accordance with BS 5930.
- Borehole remained dry on completion.
- Backfilled with arisings.

WATER LEVEL OBSERVATIONS

Date	Time	Water Strike	Standing Level	Casing Depth





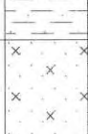
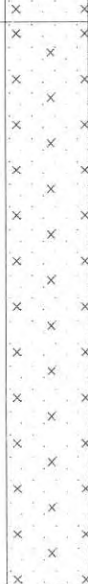
NO WATER ENCOUNTERED:

All measurements in metres unless otherwise stated	10m/page Scale: 1:62.50	No Coordinate Data Available No Datum Information Available	Page 1 of 1
Plant Used: Dando 150	Coordinates / Level (mAOD):	Logged By: SW	Checked By: KDM Approved By:

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Project:	Cherry Cobb Sands	Project No:	10-2041.02	Hole ID:	BH12
		Date:	03/05/2012	Client:	ABLE (UK) Ltd

Description Of Strata	Legend	Water	Casing Depth / (Diam. mm) Date	Depth (Thickness)	Flush Return %	Core Recovery			Depth / Core Length	Sample Details		Test Results	Backfill Details
						TCR %	SCR %	RqD %		Type	Ref.		
Brown clayey TOPSOIL. (POSSIBLE MADE GROUND).				0.46					0.50 - 0.90	B	1B	CPT N=4 1,0/1,1,1,1	
Soft light brown sandy CLAY. Sand is fine. (POSSIBLE MADE GROUND).				(0.94)					1.00 - 1.45	U	2U		
Loose light brown silty fine SAND.				1.40					1.45 - 1.85	D	3D		
				(0.95)					1.85 - 2.00	B	4B		
									2.00 - 2.45	D	5D		
Loose damp grey silty fine SAND.				2.35					2.50 - 3.00	B	6B		
				(150mm)					3.00 - 3.45	D	7D		
									3.50 - 4.00	B	8B		
									4.00 - 4.45	D	9D		
									4.50 - 5.00	B	10B		
				(4.65)					5.00 - 5.45	D	11D		
									5.80	B	12B		
				6.55 - 7.00					D	13D			
Borehole complete at 7.0 m bgl.			7.00	7.00									

REMARKS :

1. Engineer verified logged in general accordance with BS 5930.
2. Borehole remained dry on completion.
3. Backfilled with arisings.

WATER LEVEL OBSERVATIONS

Date	Time	Water Strike	Standing Level	Casing Depth

NO WATER ENCOUNTERED:

All measurements in metres unless otherwise stated

10m/page

Scale: 1:62.50

No Coordinate Data Available
No Datum Information Available

Page 1 of 1

Plant Used:	Dando 150	Coordinates / Level (mAOD):	Logged By:	CS	Checked By:	KDM	Approved By:
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Project:	Cherry Cobb Sands	Project No:	10-2041.02	Hole ID:	BH13
		Date:	04/05/2012	Client:	ABLE (UK) Ltd

Description Of Strata	Legend	Water	Casing Depth / (Diam. mm) Date	Depth (Thickness)	Flush Return %	Core Recovery				Depth / Core Length	Sample Details		Test Results	Backfill Details
						TCR %	SCR %	RQD %			Type	Ref.		
Brown clayey TOPSOIL. (POSSIBLE MADE GROUND).				0.45						0.50 - 1.00	B	1B		
Soft light brown sandy CLAY. Sand is fine. (POSSIBLE MADE GROUND).				(1.35)						1.00 - 1.45	D	2D	CPT N=6 1,2/1,2,1,2	
				1.80						1.50 - 1.75	B	3B		
Loose damp grey silty fine SAND.			(150mm)							2.00 - 2.45	D	4D	CPT N=5 1,2/1,2,1,1	
										2.50 - 3.00	B	5B		
										3.00 - 3.45	D	6D	CPT N=2 1,0/1,0,1,0	
										3.50 - 4.00	B	7B		
										4.00 - 4.45	D	8D	CPT N=2 1,0/1,0,1,0	
				(5.25)						4.50 - 5.00	B	9B		
										5.00 - 5.45	D	10D	CPT N=8 1,2/2,2,2,2	
										5.50 - 6.00	B	11B		
										6.60 - 7.05	D	12D	CPT N=10 1,2/3,2,3,2	
Borehole complete at 7.05 m bgl.			7.05	7.05										

REMARKS :

- Engineer verified logged in general accordance with BS 5930.
- Borehole remained dry on completion.
- Backfilled with arisings.

WATER LEVEL OBSERVATIONS

Date	Time	Water Strike	Standing Level	Casing Depth

NO WATER ENCOUNTERED:

All measurements in metres unless otherwise stated	10m/page Scale: 1:62.50	No Coordinate Data Available No Datum Information Available	Page 1 of 1
Plant Used: Dando 150	Coordinates / Level (mAOD):	Logged By: SW	Checked By: KDM Approved By:

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Project:	Cherry Cobb Sands	Project No:	10-2041.02	Hole ID:	BH15
		Date:	02/05/2012	Client:	ABLE (UK) Ltd

Description Of Strata	Legend	Water	Casing Depth / (Diam. mm) Date	Depth (Thickness)	Flush Return %	Core Recovery				Depth / Core Length	Sample Details		Test Results	Backfill Details
						TCR %	SCR %	RQD %			Type	Ref.		
Brown clayey TOPSOIL. (POSSIBLE MADE GROUND).				(0.90)						0.30 - 0.60	B	1B		
				0.90										
Loose brown silty fine SAND. Sand is fine. (POSSIBLE MADE GROUND).				(1.00)						1.00 - 1.45	D	2D	CPT N=4 1,1/1,1,1,1	
				1.90						1.50 - 1.80	B	3B		
Loose damp grey silty fine SAND.										2.00 - 2.45	D	4D	CPT N=6 1,2/1,2,1,2	
										2.50 - 3.00	B	5B		
										3.00 - 3.45	D	6D	CPT N=7 1,2/1,2,2,2	
										3.50 - 4.00	B	7B		
										4.00 - 4.45	D	8D	CPT N=8 1,2/2,2,2,2	
										4.50 - 5.00	B	9B		
										5.00 - 5.45	D	10D	CPT N=9 2,3/2,3,2,2	
										5.50 - 6.00	B	11B		
										6.35 - 6.80			CPT N=10 2,3/2,3,2,3	
										6.60 - 7.05	D	12D		
Borehole complete at 7.05 m bgl.														

REMARKS :

- Engineer verified logged in general accordance with BS 5930.
- Borehole remained dry on completion.
- Backfilled with arisings.

WATER LEVEL OBSERVATIONS

Date	Time	Water Strike	Standing Level	Casing Depth

NO WATER ENCOUNTERED:

All measurements in metres unless otherwise stated	10m/page Scale: 1:62.50	No Coordinate Data Available No Datum Information Available	Page 1 of 1
Plant Used: Dando 150	Coordinates / Level (mAOD):	Logged By: CS	Checked By: KDM Approved By:

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Project:	Cherry Cobb Sands	Project No:	10-2041.02	Hole ID:	BH17
		Date:	04/05/2012	Client:	ABLE (UK) Ltd

Description Of Strata	Legend	Water	Casing Depth / (Diam. mm) Date	Depth (Thickness)	Core Recovery				Depth / Core Length	Sample Details		Test Results	Backfill Details
					Flush Return %	TCR %	SCR %	RQD %		Type	Ref.		
Brown clayey TOPSOIL. (POSSIBLE MADE GROUND).				0.45					0.30	D	1D		
Soft light brown sandy CLAY. Sand is fine. (POSSIBLE MADE GROUND).				(0.85)					0.50 - 1.00	B	2B		
				1.30					1.00 - 1.45	U	3U		
Loose light brown fine SAND. (POSSIBLE MADE GROUND).				(0.70)					1.55 - 2.00	B	4B		
				2.00					2.00 - 2.45	D	5D	CPT N=3 1,0/1,0,1,1	
Loose damp grey silty fine SAND.									2.50 - 3.00	B	6B		
			(150mm)						3.00 - 3.45	D	7D	CPT N=2 1,0/0,1,0,1	
									3.50 - 4.00	B	8B		
				(5.10)					4.00 - 4.45	D	9D	CPT N=6 1,0/1,2,1,2	
									4.50 - 5.00	B	10B		
									5.00 - 5.45	D	11D	CPT N=8 1,2/2,2,2,2	
									5.50 - 6.00	B	12B		
									6.65 - 7.10	D	13D	CPT N=10 1,2/3,2,3,2	
Borehole complete at 7.1 m bgl.			7.10	7.10									

REMARKS :

1. Engineer verified logged in general accordance with BS 5930.
2. Borehole remained dry on completion.
3. Backfilled with arisings.

WATER LEVEL OBSERVATIONS

Date	Time	Water Strike	Standing Level	Casing Depth

NO WATER ENCOUNTERED:




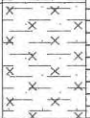

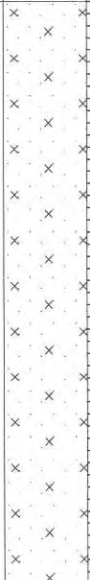

All measurements in metres unless otherwise stated	10m/page Scale: 1:62.50	No Coordinate Data Available No Datum Information Available		Page 1 of 1
Plant Used: Dando 150	Coordinates / Level (mAOD):	Logged By: CS	Checked By: KDM	Approved By:

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Project:	Cherry Cobb Sands	Project No:	10-2041.02	Hole ID:	BH18
		Date:	04/05/2012	Client:	ABLE (UK) Ltd

Description Of Strata	Legend	Water	Casing Depth / (Diam. mm) Date	Depth (Thickness)	Flush Return %	Core Recovery			Depth / Core Length	Sample Details		Test Results	Backfill Details	
						TCR %	SCR %	RQD %		Type	Ref.			SPT N Value/Drive mm
Brown clayey TOPSOIL. (POSSIBLE MADE GROUND).				0.45					0.35	D	1D	CPT N=2 1,1/0,1,0,1		
Soft light brown sandy silty CLAY. Sand is fine. (POSSIBLE MADE GROUND).				(0.95)					0.50 - 0.80	B	2B			
Loose damp brown silty clayey fine SAND.				1.40					1.00 - 1.45	U	3U			
				(0.80)					1.65 - 2.00	B	4B			
Loose damp grey silty fine SAND.				2.20					2.00 - 2.45	D	5D			CPT N=7 1,2/2,2,1,2
				(150mm)					2.50 - 3.00	B	6B			
									3.00 - 3.45	D	7D			
									3.50 - 4.00	B	8B			
									4.00 - 4.45	D	9D			CPT N=7 1,2/1,2,2,2
									4.50 - 5.00	B	10B			
									5.00 - 5.45	D	11D			CPT N=10 2,2/3,2,3,2
									6.00 - 6.50	B	12B			
				6.60 - 7.05 6.65 - 7.10					D	13D	CPT N=11 2,3/3,2,3,3			
Borehole complete at 7.05 m bgl.		7.05	7.05											

REMARKS :

1. Engineer verified logged in general accordance with BS 5930.
2. Borehole remained dry on completion.
3. Backfilled with arisings.

WATER LEVEL OBSERVATIONS

Date	Time	Water Strike	Standing Level	Casing Depth

NO WATER ENCOUNTERED:

All measurements in metres unless otherwise stated	10m/page Scale: 1:62.50	No Coordinate Data Available No Datum Information Available		Page 1 of 1
Plant Used: Dando 150	Coordinates / Level (mAOD):	Logged By: CS	Checked By: KDM	Approved By:

Appendix II



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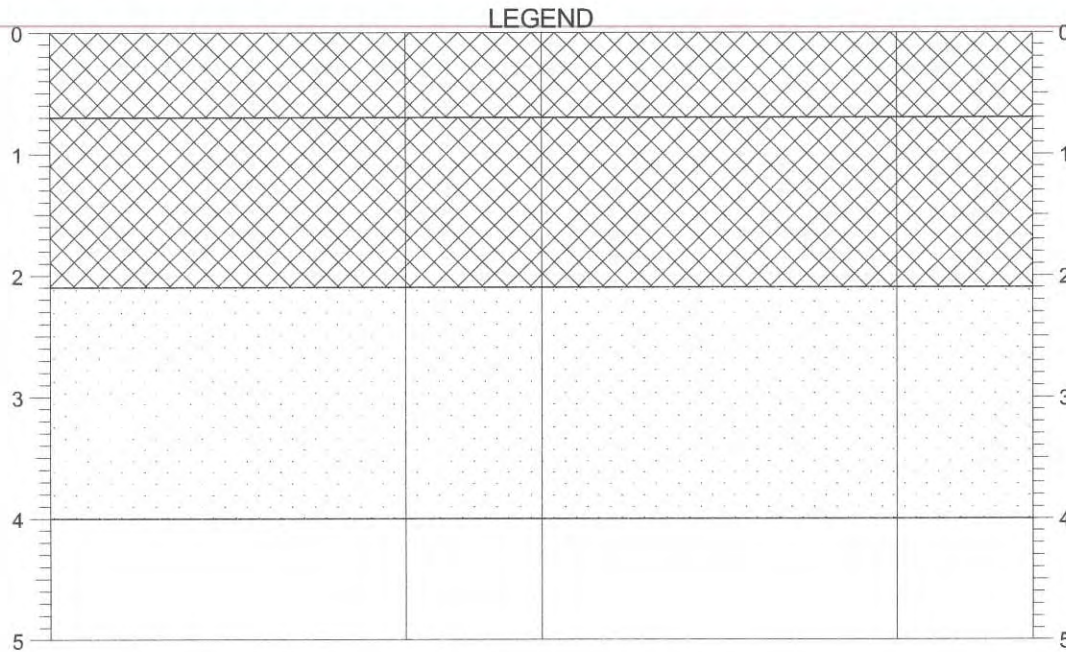
A different perspective

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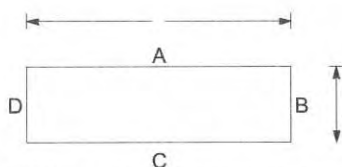
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Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TP01
	TRIAL PIT LOG	Date:	08/05/2012	Client:	ABLE (UK)



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
(0.70) 0.70		Brown slightly sandy clay with rootlets. Sand is fine. (POSSIBLE MADE GROUND).	0.00	ES001		
(1.40) 2.10		Light brown mottled orange very sandy clay. Sand is fine. (POSSIBLE MADE GROUND).	1.00-1.50 1.00-1.50	ES002 BB001 (x3)		
(1.90) 4.00		Dark brown possibly slightly organic thinly laminated fine SAND (ALLUVIUM).	3.00-3.30 3.00-3.30	B002 ES003		
		Trial Pit completed at 4.00 m bgl.				

Shoring/Support:
Stability:



Bearing:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 4.00 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
unless otherwise stated

5m/page

Scale: 1:62.5

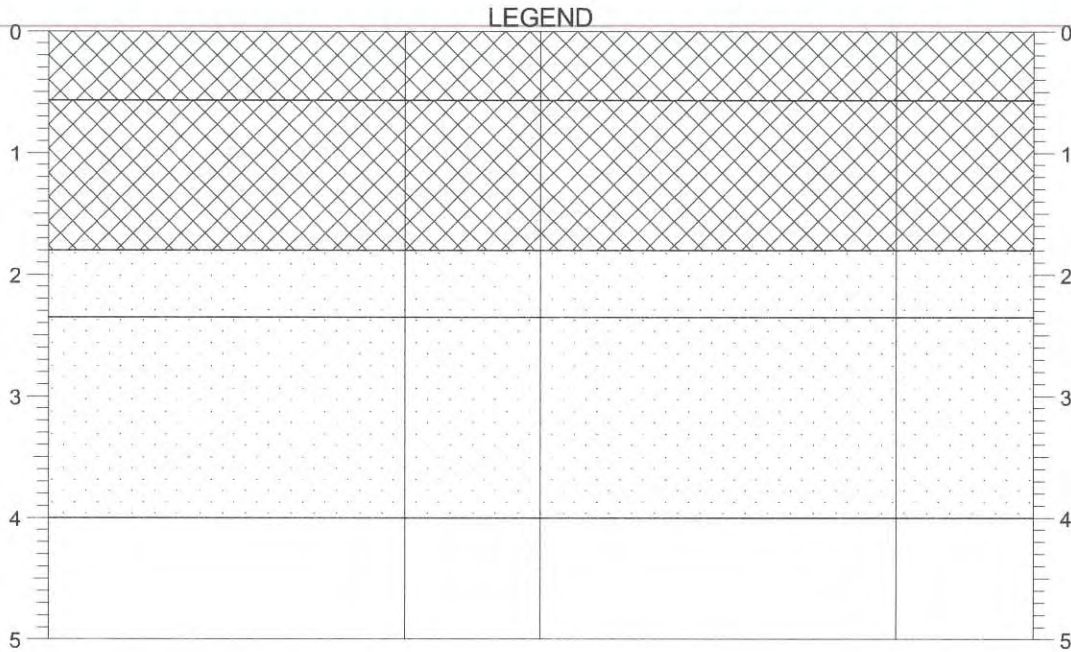
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No Datum Information Available

Plant Used: JCB 3CX	Coordinates / Level (mAOD):	Logged By: WC	Checked By: KDM	Approved By:
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Delta-Simons Environmental Consultants Ltd
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Email: info@deltasimons.com

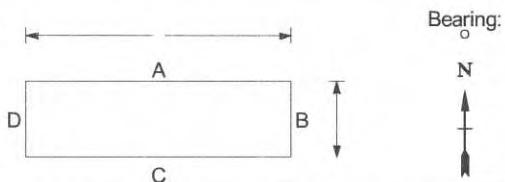


Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TP02
	TRIAL PIT LOG	Date:	08/05/2012	Client:	ABLE (UK)



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
(0.57) 0.57		Brown slightly sandy clay with rootlets. Sand is fine. (POSSIBLE MADE GROUND).	0.10-0.40	ES004		
(1.23) 1.80		Light brown mottled orange very sandy clay. Sand is fine. (POSSIBLE MADE GROUND).	1.00-1.30 1.00-1.50	ES005 B003 (x3)		
(1.55) 2.35		Dark brown possibly slightly organic thinly laminated fine SAND (ALLUVIUM).				
(1.65) 4.00		Light grey/brown fine SAND (ALLUVIUM).	3.50-3.80	ES006		
		Trial Pit completed at 4.00 m bgl.				

Shoring/Support:
Stability:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 3.85 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
unless otherwise stated

5m/page

Scale: 1:62.5

No Coordinate Data Available
No Datum Information Available

Plant Used:

JCB 3CX

Coordinates / Level (mAOD):

Logged By:

WC

Checked By:

KDM

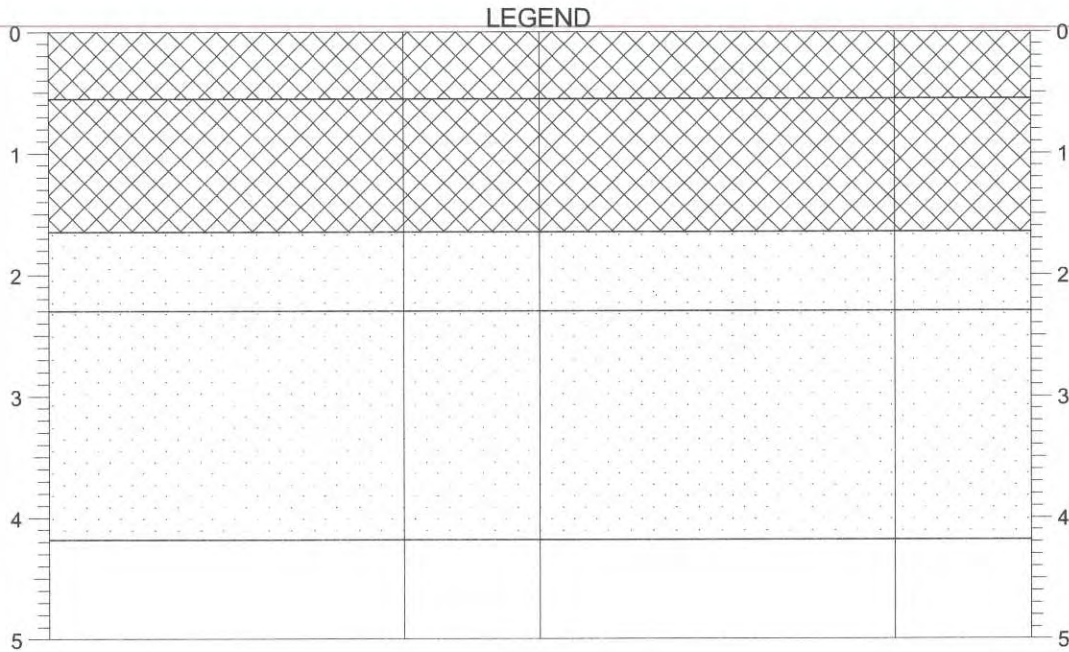
Approved By:

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Email: info@deltasimons.com



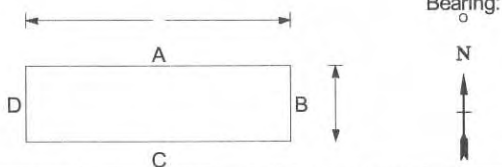
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Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TP03
	TRIAL PIT LOG	Date:	08/05/2012	Client:	ABLE (UK)



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
(0.55) 0.55		Brown slightly sandy clay with rootlets. Sand is fine. (POSSIBLE MADE GROUND).	0.10-0.40	ES007		
(1.10) 1.65		Light brown mottled orange very sandy clay. Sand is fine. (POSSIBLE MADE GROUND).	1.00-1.30	ES008		
(0.65) 2.30		Dark brown possibly slightly organic thinly laminated fine SAND (ALLUVIUM).				
(1.88) 4.18		Light grey/brown fine SAND (ALLUVIUM).	3.50-3.80	ES009		
		Trial Pit completed at 4.18 m bgl.				

Shoring/Support:
Stability:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 4.18 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
unless otherwise stated

5m/page

Scale: 1:62.5

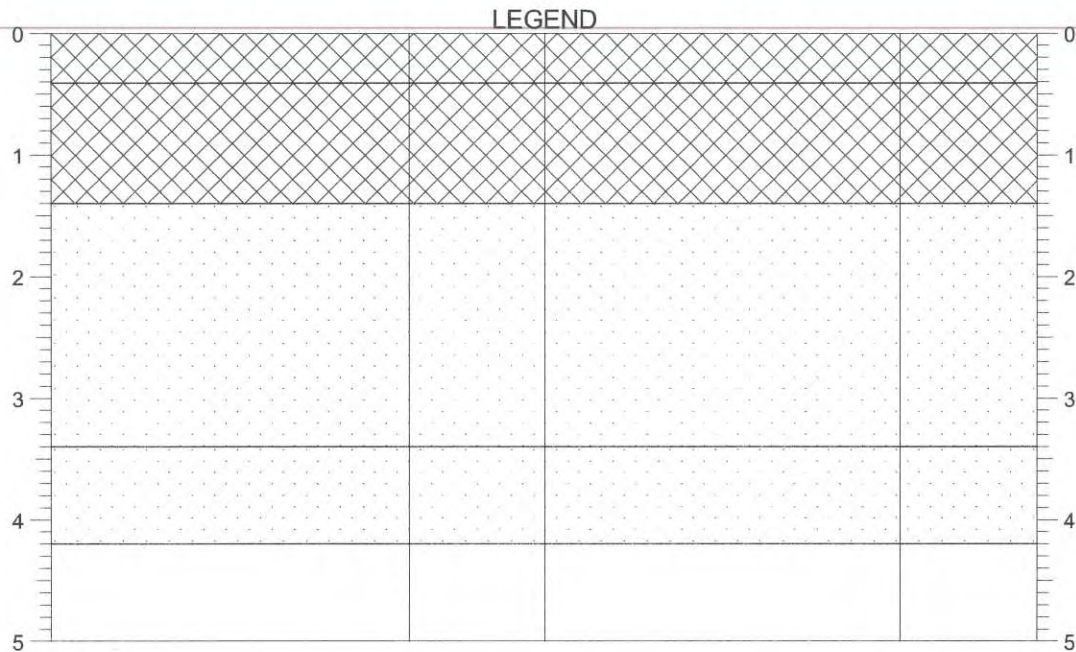
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Plant Used:	JCB 3CX	Coordinates / Level (mAOD):	Logged By:	WC	Checked By:	KDM	Approved By:
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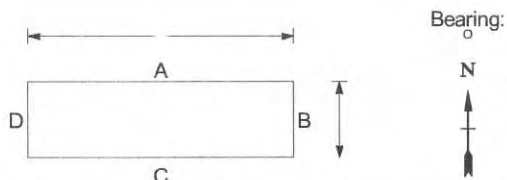


Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TP04
TRIAL PIT LOG		Date:	08/05/2012	Client:	ABLE (UK)



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
0.41		Brown slightly sandy clay with rootlets. Sand is fine. (POSSIBLE MADE GROUND).	0.10-0.30	ES010		
(0.99)		Light brown mottled orange silty very sandy clay. Sand is fine. (POSSIBLE MADE GROUND).	0.90-1.20	ES011		
1.40		Dark brown possibly slightly organic thinly laminated fine SAND (ALLUVIUM).	1.40-1.70	ES012		
(2.00)						
3.40		Light grey/brown fine SAND (ALLUVIUM).	3.50-3.80	B005		
(0.80)						
4.20		Trial Pit completed at 4.20 m bgl.				

Shoring/Support:
Stability:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 4.20 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
unless otherwise stated

5m/page

Scale: 1:62.5

No Coordinate Data Available
No Datum Information Available

Plant Used:	JCB 3CX	Coordinates / Level (mAOD):	Logged By:	Checked By:	Approved By:
			WC	KDM	

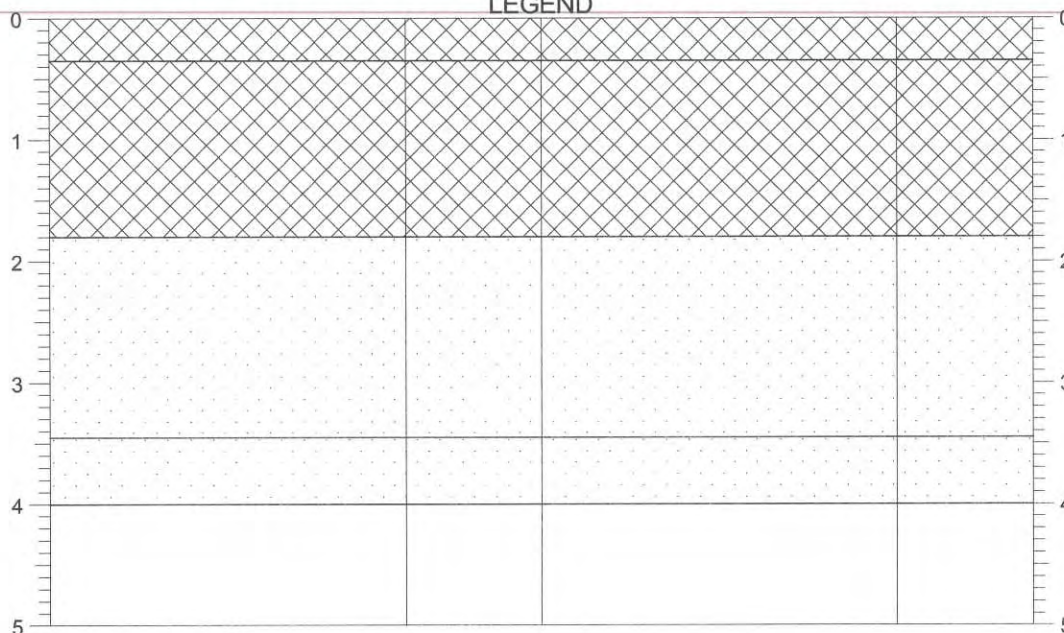
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Email: info@deltasimons.com



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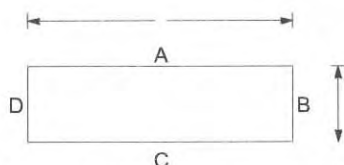
Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TP05
	TRIAL PIT LOG	Date:	08/05/2012	Client:	ABLE (UK)

LEGEND



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
0.35		Brown slightly sandy clay with rootlets. Sand is fine. (POSSIBLE MADE GROUND).	0.10-0.30	ES013		
(1.45)		Light brown mottled orange silty very sandy clay. Sand is fine. (POSSIBLE MADE GROUND).	0.60-0.90	ES014		
1.80			1.00-1.50	B006 (x3)		
(1.65)		Dark brown possibly slightly organic thinly laminated fine SAND (ALLUVIUM).	1.90-2.20	ES015		
3.45						
(0.55)		Light grey/brown fine SAND (ALLUVIUM).				
4.00		Trial Pit completed at 4.00 m bgl.				

Shoring/Support:
Stability:



Bearing:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 4.00 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
unless otherwise stated

5m/page

Scale: 1:62.5

No Coordinate Data Available
No Datum Information Available

Plant Used:

JCB 3CX

Coordinates / Level (mAOD):

Logged By:

WC

Checked By:

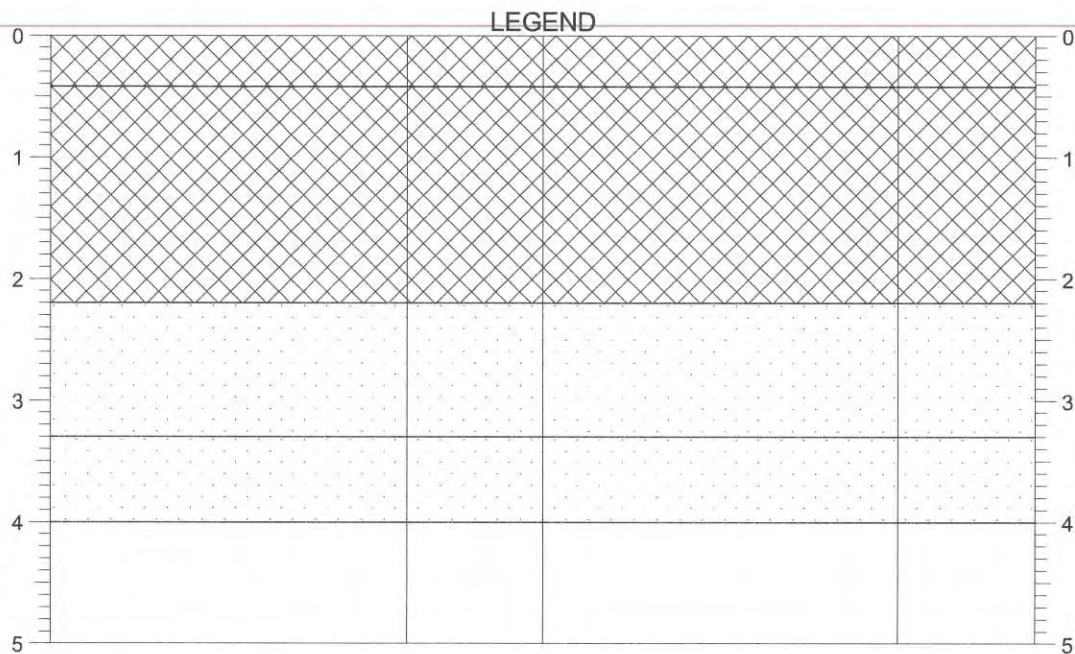
KDM

Approved By:

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 Email: info@deltasimons.com

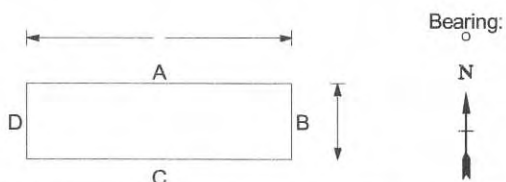


Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TP06
	TRIAL PIT LOG	Date:	08/05/2012	Client:	ABLE (UK)



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
0.42		Brown slightly sandy clay with rootlets. Sand is fine. (POSSIBLE MADE GROUND).	0.10-0.30	ES016		
(1.78)		Light brown mottled orange silty very sandy clay. Sand is fine. (POSSIBLE MADE GROUND).				
2.20			1.90-2.10	ES017		
(1.10)		Dark brown possibly slightly organic thinly laminated fine SAND (ALLUVIUM).	2.70-3.00	ES018		
3.30						
(0.70)		Light grey/brown fine SAND (ALLUVIUM).				
4.00						
		Trial Pit completed at 4.00 m bgl.				

Shoring/Support:
 Stability:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 4.00 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
 unless otherwise stated

5m/page

Scale: 1:62.5

No Coordinate Data Available
 No Datum Information Available

Plant Used:	JCB 3CX	Coordinates / Level (mAOD):	Logged By:	Checked By:	Approved By:
			WC	KDM	

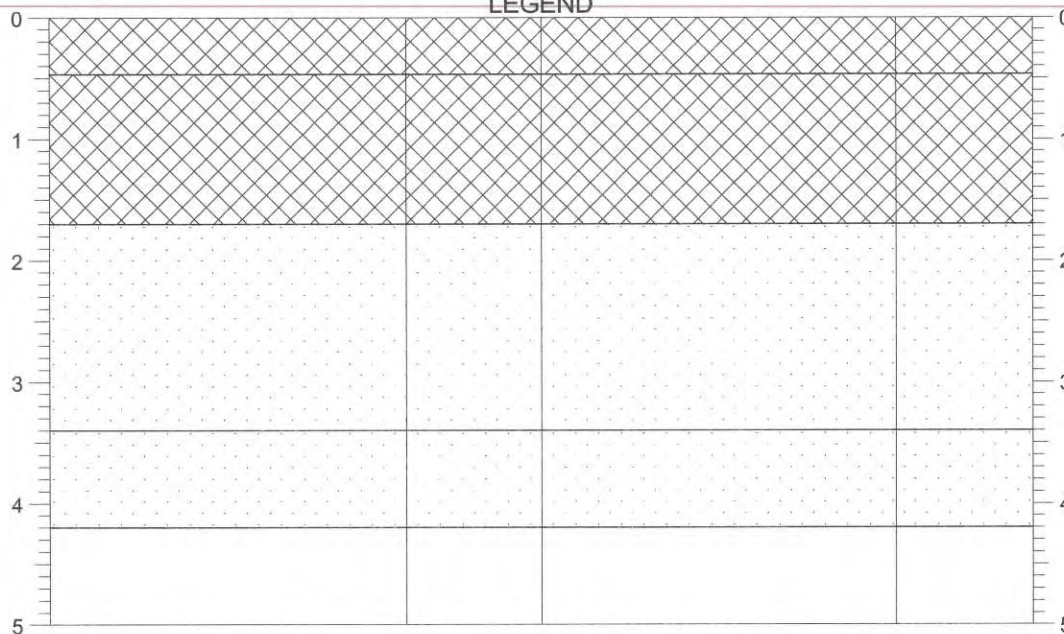
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Fax: 01522 882 567
Email: info@deltasimons.com



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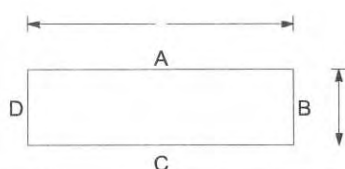
Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TP07
	TRIAL PIT LOG	Date:	08/05/2012	Client:	ABLE (UK)

LEGEND



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
(0.47)	0.47	Brown slightly sandy clay with rootlets. Sand is fine. (POSSIBLE MADE GROUND).	0.10-0.30	ES019		
(1.23)	1.70	Light brown mottled orange silty very sandy clay. Sand is fine. (POSSIBLE MADE GROUND).	0.60-0.90	ES020		
			1.00-1.50	B008		
(1.70)	3.40	Dark brown possibly slightly organic thinly laminated fine SAND (ALLUVIUM).	1.90-2.20	B007		
			1.90-2.20	ES021		
(0.80)	4.20	Light grey/brown fine SAND (ALLUVIUM).				
		Trial Pit completed at 4.20 m bgl.				

Shoring/Support:
Stability:



Bearing:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 4.20 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
unless otherwise stated

5m/page

Scale: 1:62.5

No Coordinate Data Available
No Datum Information Available

Plant Used:

JCB 3CX

Coordinates / Level (mAOD):

Logged By:

WC

Checked By:

KDM

Approved By:

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Project:

Cherry Cobb Sands

Project No:

10-0241.02

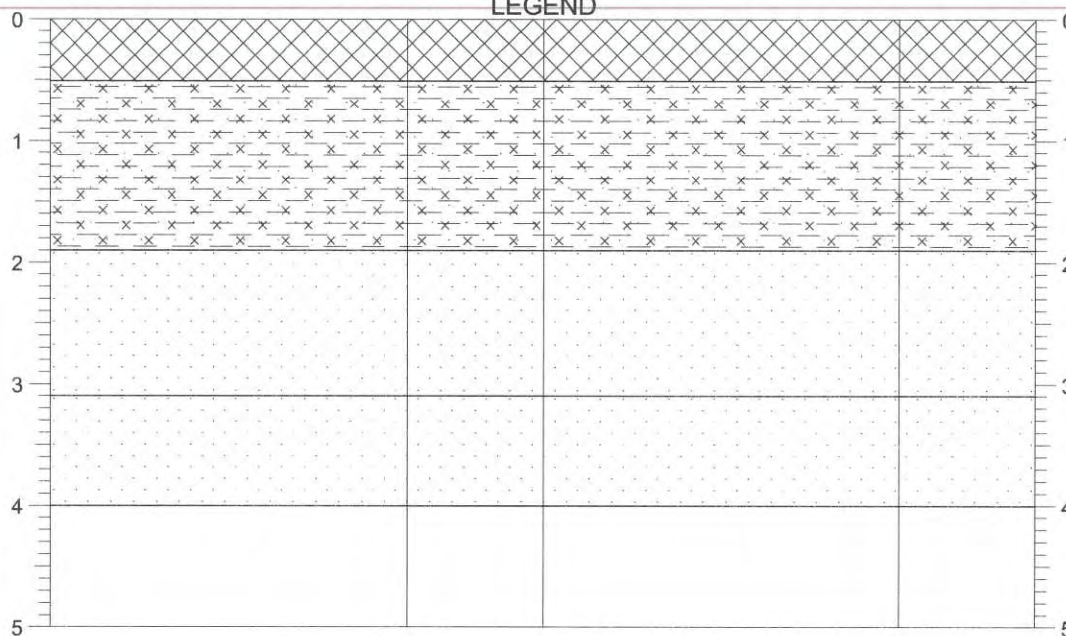
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TP08**TRIAL PIT LOG**

Date:

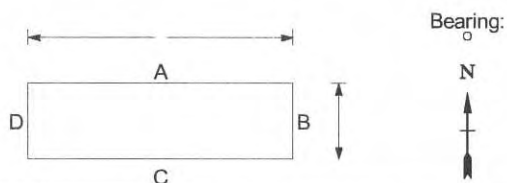
08/05/2012

Client:

ABLE (UK)**LEGEND****STRATA****SAMPLES****TESTS**

Depth	No	DESCRIPTION	Depth	No	Depth	Results
(0.51)	0.51	Brown slightly sandy clay with rootlets. Sand is fine. (POSSIBLE MADE GROUND).	0.10-0.40	ES022		
(1.39)	1.90	Light brown mottled orange silty very sandy clay. Sand is fine. (POSSIBLE MADE GROUND).	0.60-0.80	ES023		
(1.20)	3.10	Dark brown possibly slightly organic thinly laminated fine SAND (ALLUVIUM).	1.00-1.50	B009		
(0.90)	4.00	Light grey/brown fine SAND (ALLUVIUM).	3.20-3.60	ES024		
		Trial Pit completed at 4.00 m bgl.				

Shoring/Support:
 Stability:

**REMARKS :**

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 4.00 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
 unless otherwise stated

5m/page

Scale: 1:62.5

No Coordinate Data Available
 No Datum Information Available

Plant Used:

JCB 3CX

Coordinates / Level (mAOD):

Logged By:

WC

Checked By:

KDM

Approved By:

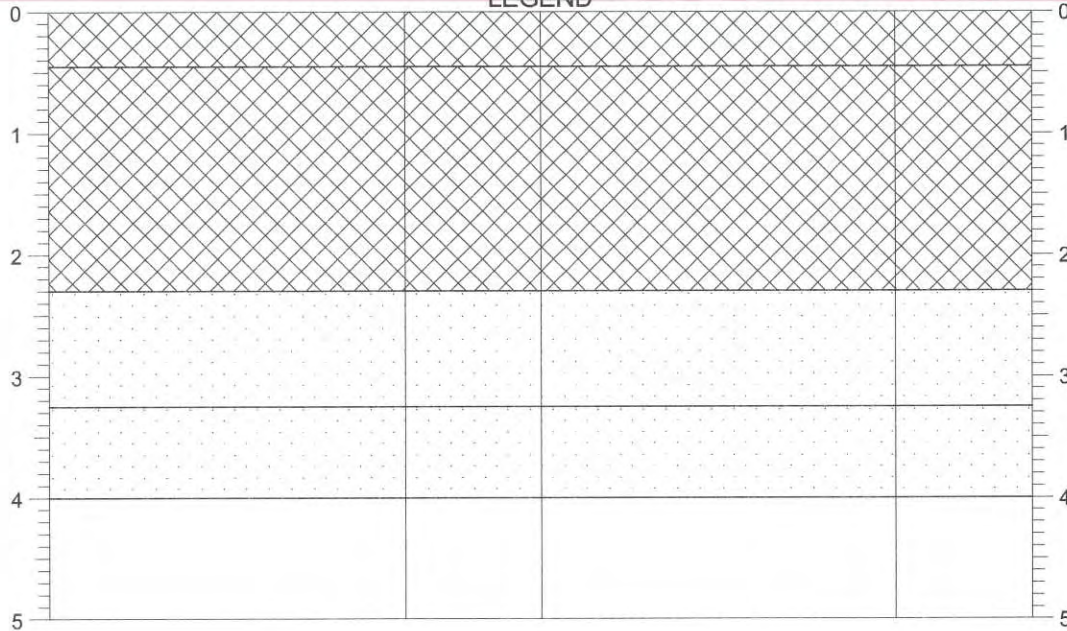
Delta-Simons Environmental Consultants Ltd
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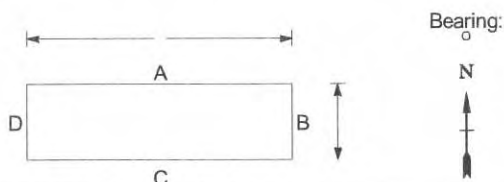
Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TP09
	TRIAL PIT LOG	Date:	08/05/2012	Client:	ABLE (UK)

LEGEND



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
0.45		Brown slightly sandy clay with rootlets. Sand is fine. (POSSIBLE MADE GROUND).	0.10-0.40	ES025		
(1.85)		Light brown mottled orange silty very sandy clay. Sand is fine. (POSSIBLE MADE GROUND).	0.90-1.10	ES026		
2.30						
(0.95)		Dark brown possibly slightly organic thinly laminated fine SAND (ALLUVIUM).				
3.25						
(0.75)		Light grey/brown fine SAND (ALLUVIUM).	3.40-3.70	ES027		
4.00						
		Trial Pit completed at 4.00 m bgl.				

Shoring/Support:
 Stability:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 4.00 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
 unless otherwise stated

5m/page

Scale: 1:62.5

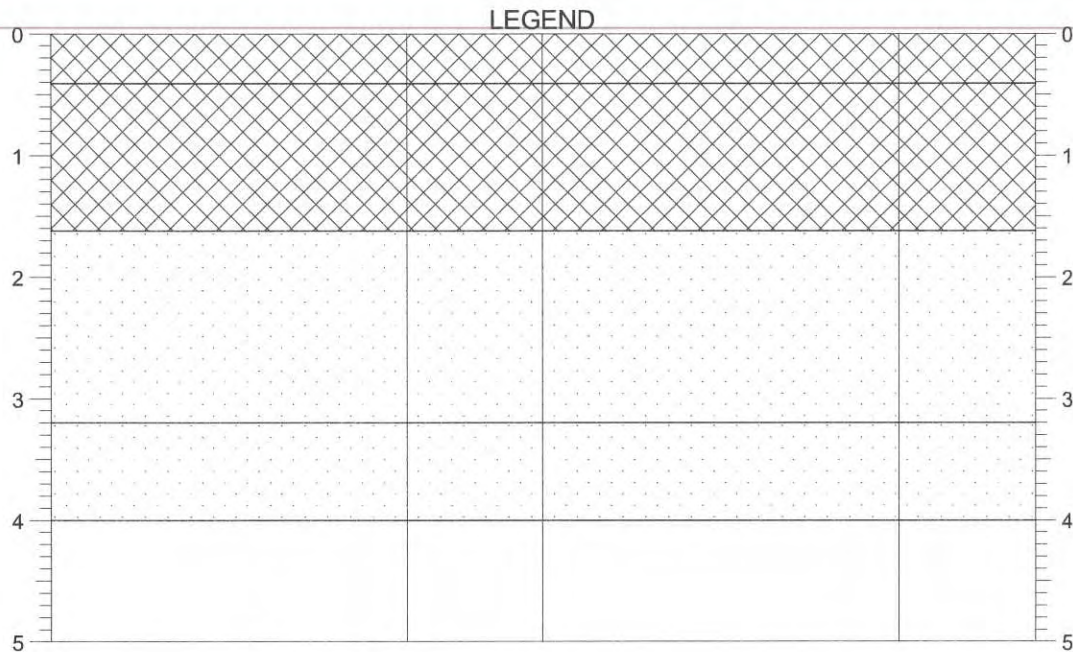
No Coordinate Data Available
 No Datum Information Available

Plant Used:	JCB 3CX	Coordinates / Level (mAOD):	Logged By:	Checked By:	Approved By:
			WC	KDM	

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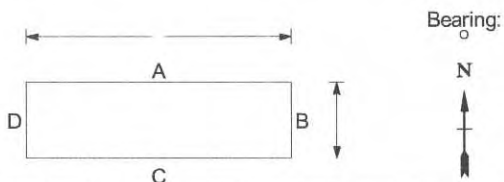


Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TP10
	TRIAL PIT LOG	Date:	08/05/2012	Client:	ABLE (UK)



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
0.41		Brown slightly sandy clay with rootlets. Sand is fine. (POSSIBLE MADE GROUND).	0.10-0.40	ES028		
(1.21)		Light brown mottled orange silty very sandy clay. Sand is fine. (POSSIBLE MADE GROUND).	0.60-0.90	ES029		
1.62			1.00-1.50	B010 (x3)		
(1.58)		Dark brown possibly slightly organic thinly laminated fine SAND (ALLUVIUM).				
3.20						
(0.80)		Light grey/brown fine SAND (ALLUVIUM).				
4.00			3.70-4.00	B011		
		Trial Pit completed at 4.00 m bgl.	3.70-4.00	ES030		

Shoring/Support:
Stability:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 4.00 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
unless otherwise stated

5m/page

Scale: 1:62.5

No Coordinate Data Available
No Datum Information Available

Plant Used: JCB 3CX	Coordinates / Level (mAOD):	Logged By: WC	Checked By: KDM	Approved By:
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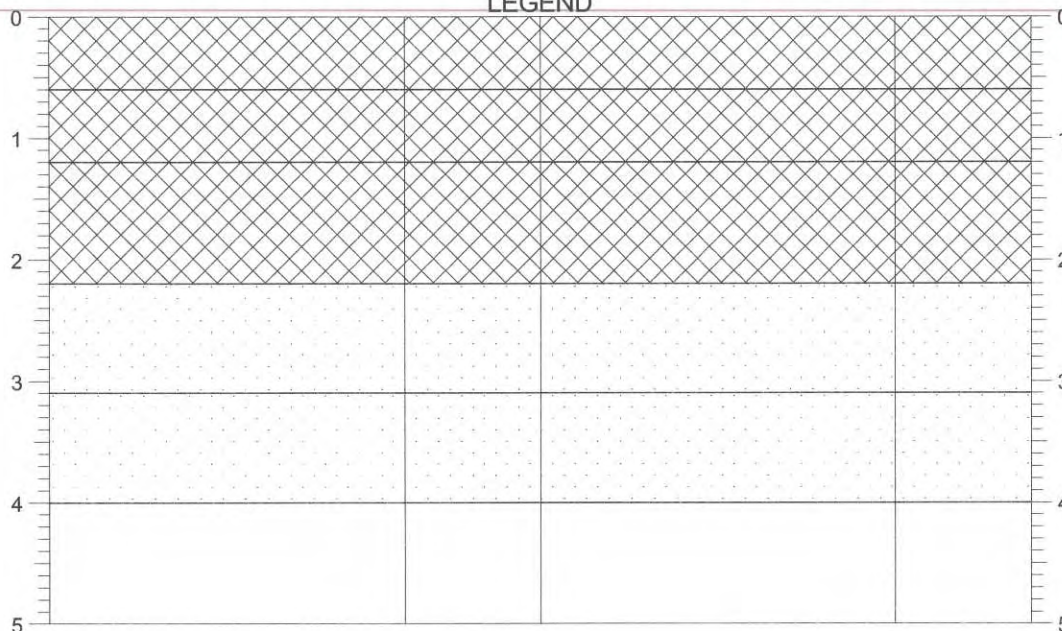
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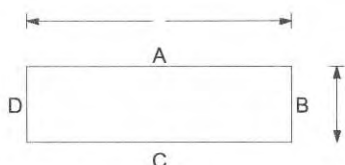
Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TP11
	TRIAL PIT LOG	Date:	08/05/2012	Client:	ABLE (UK)

LEGEND



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
(0.60) 0.60		Brown slightly sandy clay with rootlets. Sand is fine. (POSSIBLE MADE GROUND).	0.10-0.40	ES031		
(0.60) 1.20		Brown very sandy clay. Sand is fine. (POSSIBLE MADE GROUND).	0.70-1.00	ES032		
(1.00) 2.20		Light brown mottled orange silty very sandy clay. Sand is fine. (POSSIBLE MADE GROUND).	1.00-1.50	B012 (x3)		
(0.90) 3.10		Dark brown possibly slightly organic thinly laminated fine SAND (ALLUVIUM).				
(0.90) 4.00		Light grey/brown fine SAND (ALLUVIUM).	3.70-4.00	ES033		
		Trial Pit completed at 4.20 m bgl.				

Shoring/Support:
Stability:



Bearing:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 4.00 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
unless otherwise stated

5m/page

Scale: 1:62.5

No Coordinate Data Available
No Datum Information Available

Plant Used:

JCB 3CX

Coordinates / Level (mAOD):

Logged By:

WC

Checked By:

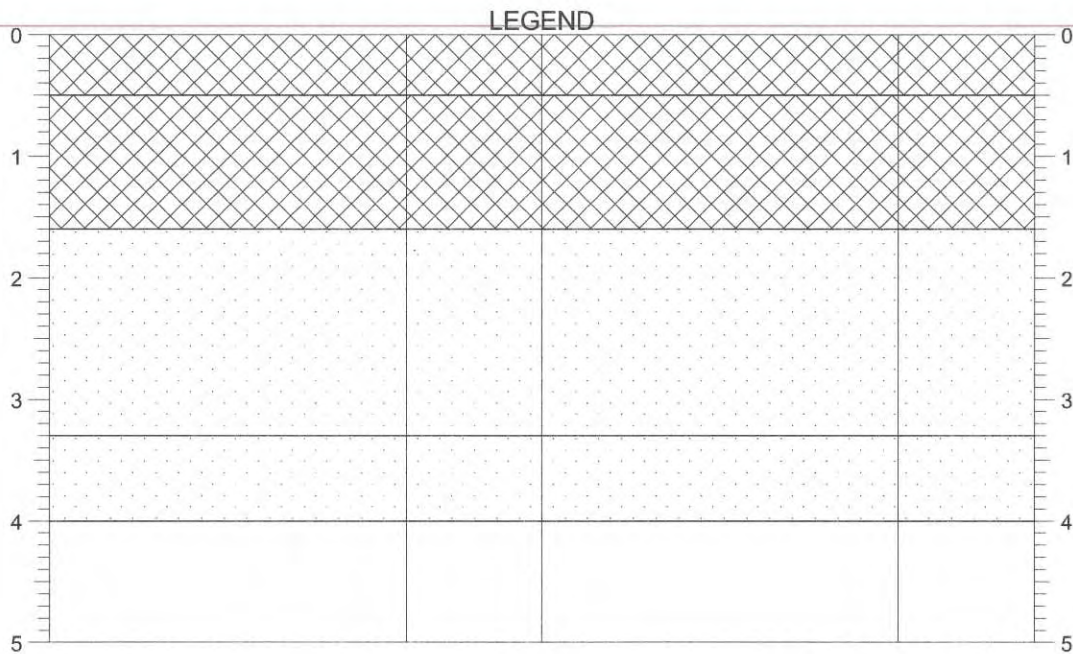
KDM

Approved By:

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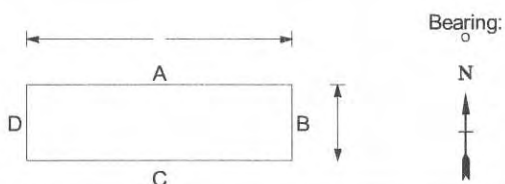


Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TP12
	TRIAL PIT LOG	Date:	09/05/2012	Client:	ABLE (UK)



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
(0.50) 0.50		Brown slightly sandy clay with rootlets. Sand is fine. (POSSIBLE MADE GROUND).	0.10-0.40	ES034		
(1.10) 1.60		Light brown mottled orange silty very sandy clay. Sand is fine. (POSSIBLE MADE GROUND).	0.60-0.90	ES035		
(1.70) 3.30		Dark brown possibly slightly organic thinly laminated fine SAND (ALLUVIUM).				
(0.70) 4.00		Light grey/brown fine SAND (ALLUVIUM).	3.70-4.00	ES036		
		Trial Pit completed at 4.00 m bgl.				

Shoring/Support:
Stability:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 4.00 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
unless otherwise stated

5m/page

Scale: 1:62.5

No Coordinate Data Available
No Datum Information Available

Plant Used:	JCB 3CX	Coordinates / Level (mAOD):	Logged By:	WC	Checked By:	KDM	Approved By:
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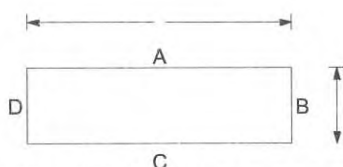
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Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TP13
	TRIAL PIT LOG	Date:	09/05/2012	Client:	ABLE (UK)



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
0.41		Brown slightly sandy clay with rootlets. Sand is fine. (POSSIBLE MADE GROUND).	0.10-0.30	ES037		
(2.19)		Light brown mottled orange silty very sandy clay. Sand is fine. (POSSIBLE MADE GROUND).	1.00-1.50 1.10-1.30	B013 ES038		
2.60						
(0.80)		Dark brown possibly slightly organic thinly laminated fine SAND (ALLUVIUM).	2.70-2.90 2.70-2.90	B014 ES039		
3.40						
(0.60)		Light grey/brown fine SAND (ALLUVIUM).				
4.00						
		Trial Pit completed at 4.00 m bgl.				

Shoring/Support:
 Stability:



Bearing:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 4.00 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
 unless otherwise stated

5m/page

Scale: 1:62.5

No Coordinate Data Available
 No Datum Information Available

Plant Used:	JCB 3CX	Coordinates / Level (mAOD):	Logged By:	Checked By:	Approved By:
			WC	KDM	

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 Email: info@deltasimons.com



Project:

Cherry Cobb Sands

Project No:

10-0241.02

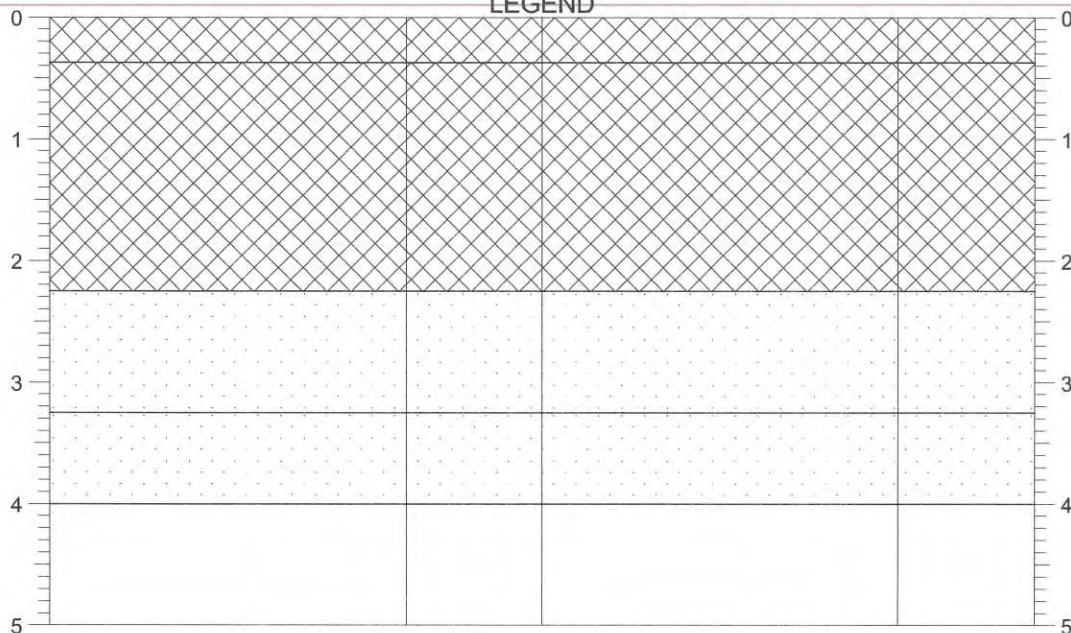
Hole ID:

TP14**TRIAL PIT LOG**

Date:

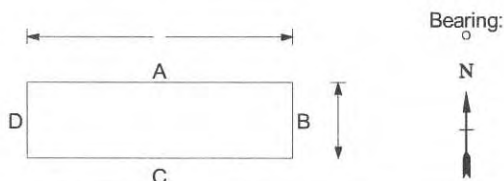
09/05/2012

Client:

ABLE (UK)**LEGEND****STRATA****SAMPLES****TESTS**

Depth	No	DESCRIPTION	Depth	No	Depth	Results
0.37		Brown slightly sandy clay with rootlets. Sand is fine. (POSSIBLE MADE GROUND).	0.10-0.30	ES040		
(1.88)		Light brown mottled orange silty very sandy clay. Sand is fine. (POSSIBLE MADE GROUND).	1.00-1.50 1.10-1.30	B015 (x3) ES041		
2.25						
(1.00)		Dark brown possibly slightly organic thinly laminated fine SAND (ALLUVIUM).				
3.25						
(0.75)		Light grey/brown fine SAND (ALLUVIUM).				
4.00			3.70-4.00	ES042		
		Trial Pit completed at 4.00 m bgl.				

Shoring/Support:
 Stability:

**REMARKS :**

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 4.00 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
 unless otherwise stated

5m/page

Scale: 1:62.5

No Coordinate Data Available
 No Datum Information Available

Plant Used:

JCB 3CX

Coordinates / Level (mAOD):

Logged By:

WC

Checked By:

KDM

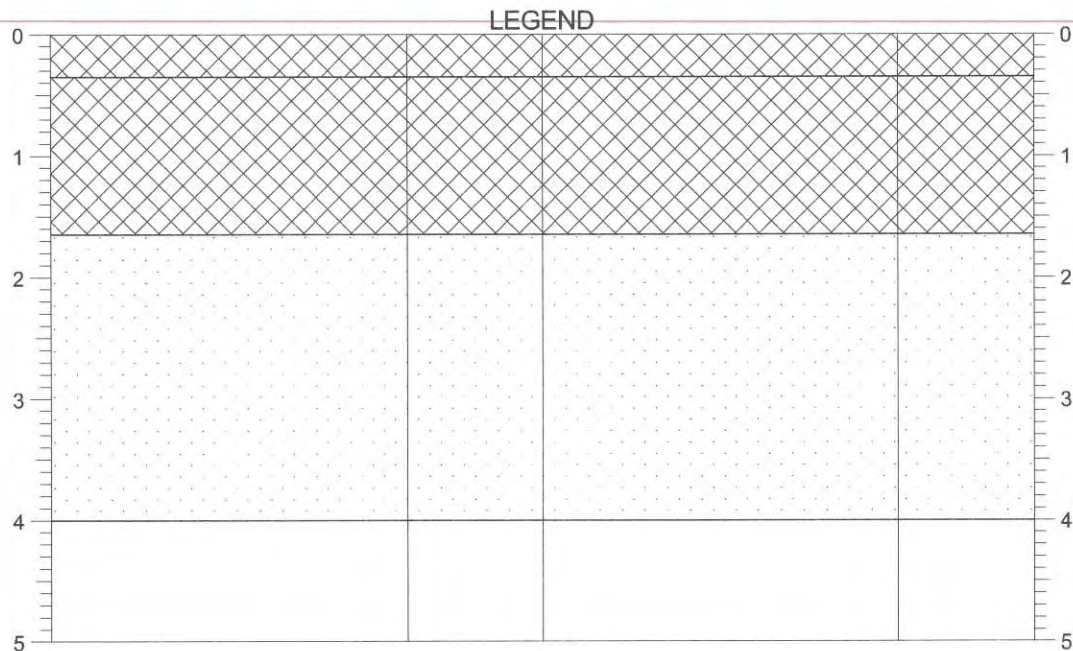
Approved By:

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 Fax: 01522 882 567
 Email: info@deltasimons.com



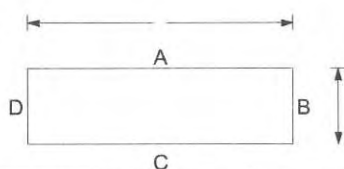
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Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TP15
	TRIAL PIT LOG	Date:	09/05/2012	Client:	ABLE (UK)



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
0.35		Brown slightly sandy clay with rootlets. Sand is fine. (POSSIBLE MADE GROUND).	0.10-0.30	ES043		
(1.30)		Light brown mottled orange silty very sandy clay. Sand is fine. (POSSIBLE MADE GROUND).	0.90-1.10	ES044		
1.65		Dark brown possibly slightly organic thinly laminated fine SAND (ALLUVIUM).	3.20-3.40	ES045		
(2.35)						
4.00		Trial Pit completed at 4.00 m bgl.				

Shoring/Support:
 Stability:



Bearing:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 4.00 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
 unless otherwise stated

5m/page

Scale: 1:62.5

No Coordinate Data Available
 No Datum Information Available

Plant Used: JCB 3CX	Coordinates / Level (mAOD):	Logged By: WC	Checked By: KDM	Approved By:
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 Email: info@deltasimons.com



Project:

Cherry Cobb Sands

Project No:

10-0241.02

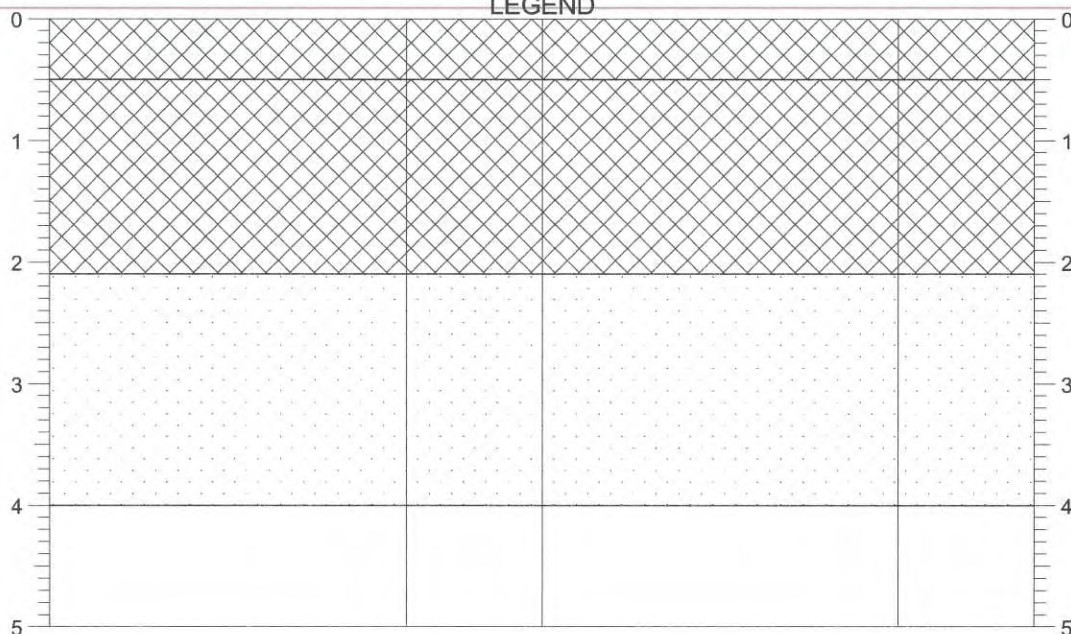
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TP16**TRIAL PIT LOG**

Date:

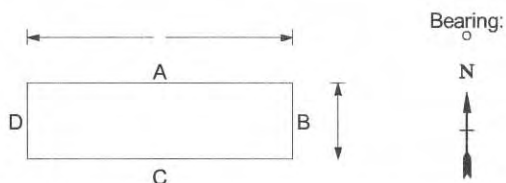
09/05/2012

Client:

ABLE (UK)**LEGEND****STRATA****SAMPLES****TESTS**

Depth	No	DESCRIPTION	Depth	No	Depth	Results
(0.50)	0.50	Brown slightly sandy clay with rootlets. Sand is fine. (POSSIBLE MADE GROUND).	0.10-0.40	ES046		
(1.60)	2.10	Light brown mottled orange silty very sandy clay. Sand is fine. (POSSIBLE MADE GROUND).	1.00-1.50	B016 (x3)		
			1.70-1.90	ES047		
(1.90)	4.00	Dark brown possibly slightly organic thinly laminated fine SAND (ALLUVIUM).	2.30-2.40	ES048		
			3.50-3.70	B017		
		Trial Pit completed at 4.00 m bgl.				

Shoring/Support:
 Stability:

**REMARKS :**

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 4.00 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
 unless otherwise stated

5m/page

Scale: 1:62.5

No Coordinate Data Available
 No Datum Information Available

Plant Used:

JCB 3CX

Coordinates / Level (mAOD):

Logged By:

WC

Checked By:

KDM

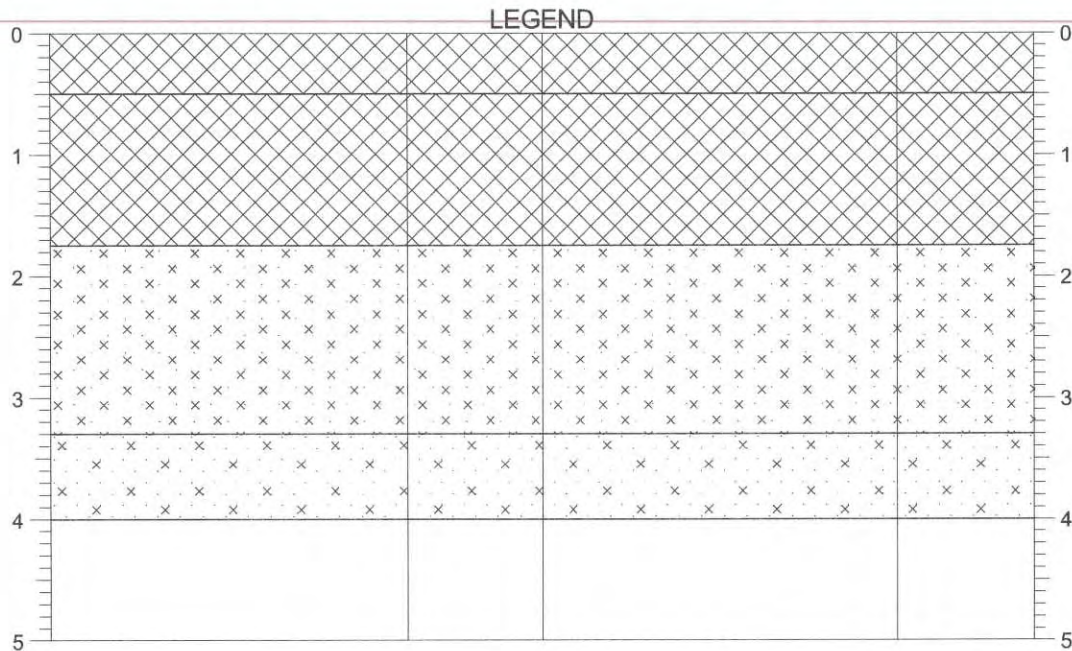
Approved By:

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 Fax: 01522 882 567
 Email: info@deltasimons.com



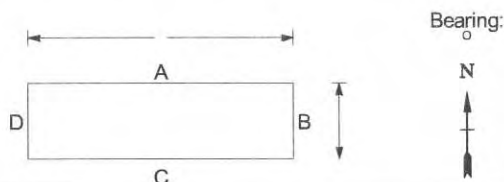
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Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TP17
	TRIAL PIT LOG	Date:	09/05/2012	Client:	ABLE (UK)



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
(0.50) 0.50		Brown slightly sandy clay with rootlets. Sand is fine. (POSSIBLE MADE GROUND).	0.10-0.30	ES049		
(1.25) 1.75		Light brown mottled orange silty very sandy clay. Sand is fine. (POSSIBLE MADE GROUND).	0.90-1.20 1.00-1.50	ES050 B018 (x3)		
(1.55) 3.30		Dark brown possibly slightly organic thinly laminated very sandy SILT Sand is fine. (ALLUVIUM).				
(0.70) 4.00		Light grey/brown silty fine SAND (ALLUVIUM).	3.70-3.90	ES051		
		Trial Pit completed at 4.00 m bgl.				

Shoring/Support:
 Stability:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 4.00 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
 unless otherwise stated

5m/page

Scale: 1:62.5

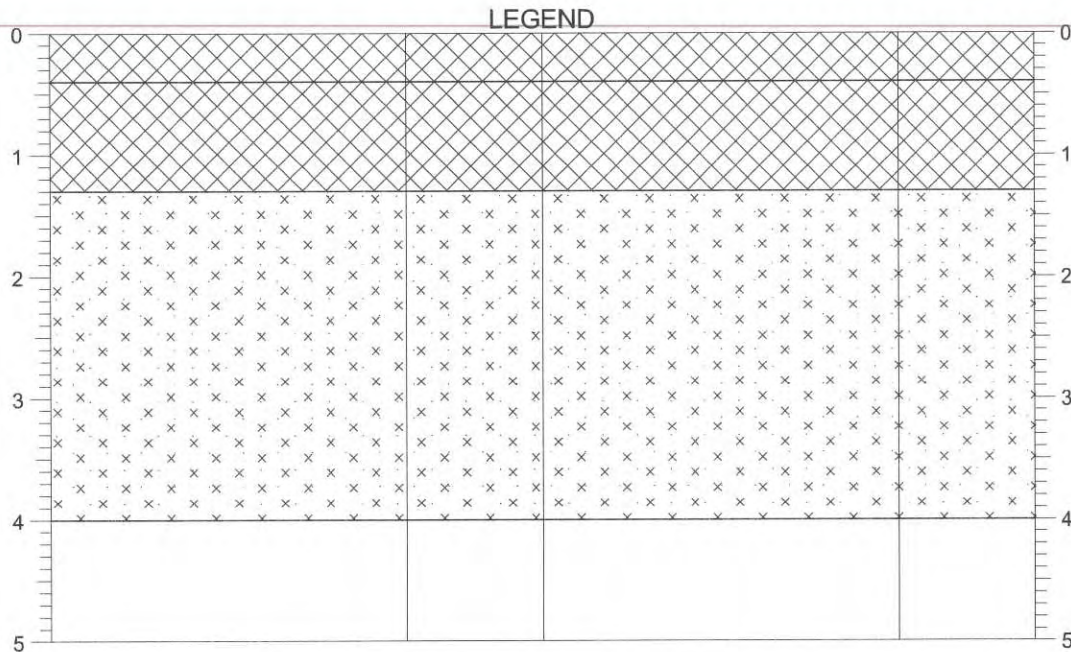
No Coordinate Data Available
 No Datum Information Available

Plant Used: JCB 3CX	Coordinates / Level (mAOD):	Logged By: WC	Checked By: KDM	Approved By:
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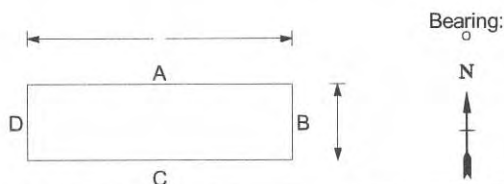


Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TP18
	TRIAL PIT LOG	Date:	09/05/2012	Client:	ABLE (UK)



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
0.40		Brown slightly sandy clay with rootlets. Sand is fine. (POSSIBLE MADE GROUND).	0.10-0.30	ES052		
(0.90)		Light brown mottled orange silty very sandy clay. Sand is fine. (POSSIBLE MADE GROUND).	0.80-0.90	ES053		
1.30						
(2.70)		Dark brown possibly slightly organic thinly laminated very sandy SILT. Sand is fine. (ALLUVIUM).	1.40-1.60	ES054		
4.00		Trial Pit completed at 4.00 m bgl.				

Shoring/Support:
Stability:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 4.00 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
unless otherwise stated

5m/page Scale: 1:62.5

No Coordinate Data Available
No Datum Information Available

Plant Used:	JCB 3CX	Coordinates / Level (mAOD):	Logged By:	WC	Checked By:	KDM	Approved By:
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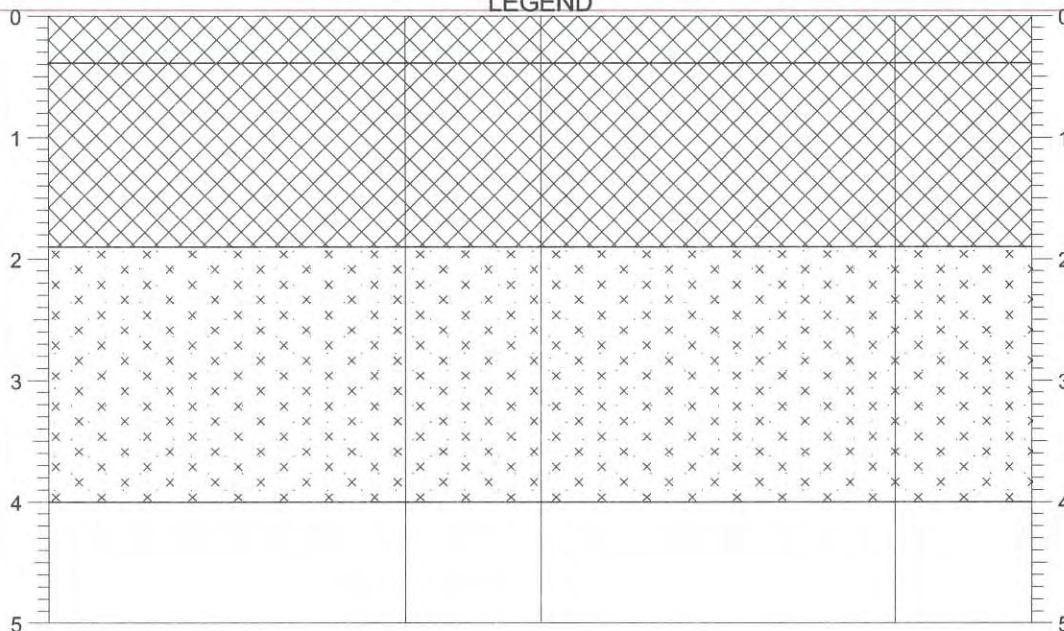
Delta-Simons Environmental Consultants Ltd
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Email: info@deltasimons.com



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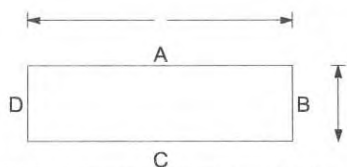
Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TP19
	TRIAL PIT LOG	Date:	09/05/2012	Client:	ABLE (UK)

LEGEND



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
0.39		Brown slightly sandy clay with rootlets. Sand is fine. (POSSIBLE MADE GROUND).	0.10-0.30	ES055		
(1.51)		Light brown mottled orange silty very sandy clay. Sand is fine. (POSSIBLE MADE GROUND).	1.00-1.50 1.20-1.40	B019 (x3) ES056		
1.90		Dark brown possibly slightly organic thinly laminated fine SAND (ALLUVIUM).	2.40-2.60 2.40-2.60	B020 ES057		
(2.10)						
4.00		Trial Pit completed at 4.00 m bgl.				

Shoring/Support:
Stability:



Bearing:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 4.00 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
unless otherwise stated

5m/page

Scale: 1:62.5

No Coordinate Data Available
No Datum Information Available

Plant Used:

JCB 3CX

Coordinates / Level (mAOD):

Logged By:

WC

Checked By:

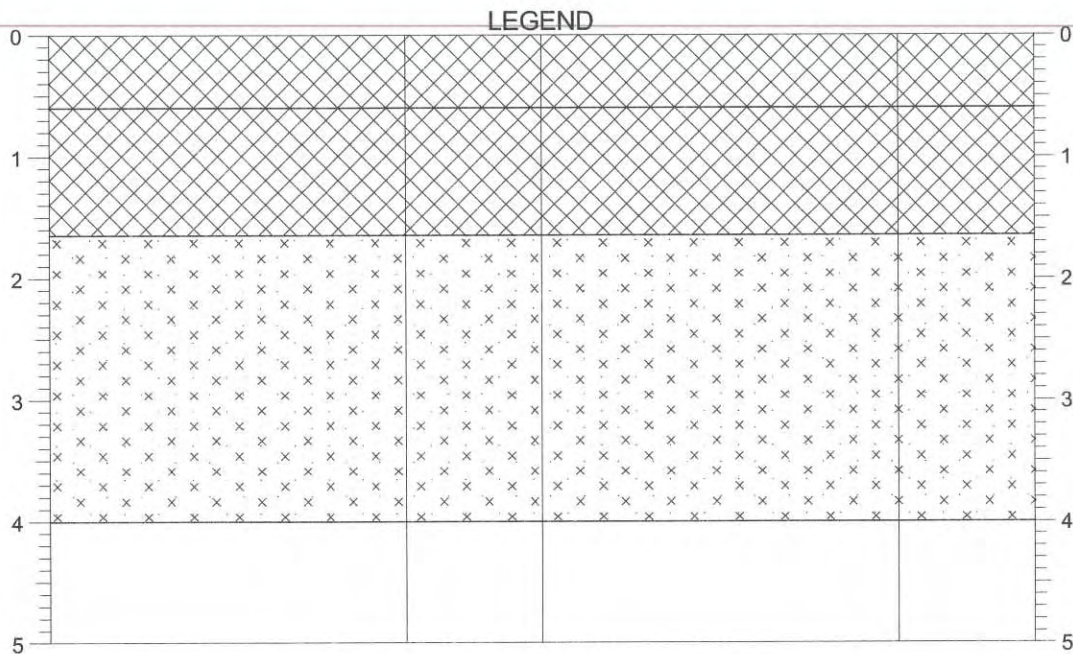
KDM

Approved By:

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Email: info@deltasimons.com

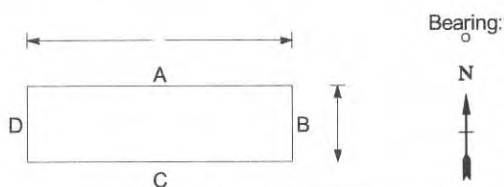


Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TP20
	TRIAL PIT LOG	Date:	09/05/2012	Client:	ABLE (UK)



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
(0.60) 0.60		Brown slightly sandy clay with rootlets. Sand is fine. (POSSIBLE MADE GROUND).	0.10-0.30	ES058		
(1.05) 1.65		Light brown mottled orange silty very sandy clay. Sand is fine. (POSSIBLE MADE GROUND).	0.70-0.90 1.00-1.50	ES059 B021 (x3)		
(2.35) 4.00		Dark brown possibly slightly organic thinly laminated fine SAND (ALLUVIUM).	3.70-3.90	ES060		
		Trial Pit completed at 4.00 m bgl.				

Shoring/Support:
Stability:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 4.00 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
unless otherwise stated

5m/page Scale: 1:62.5

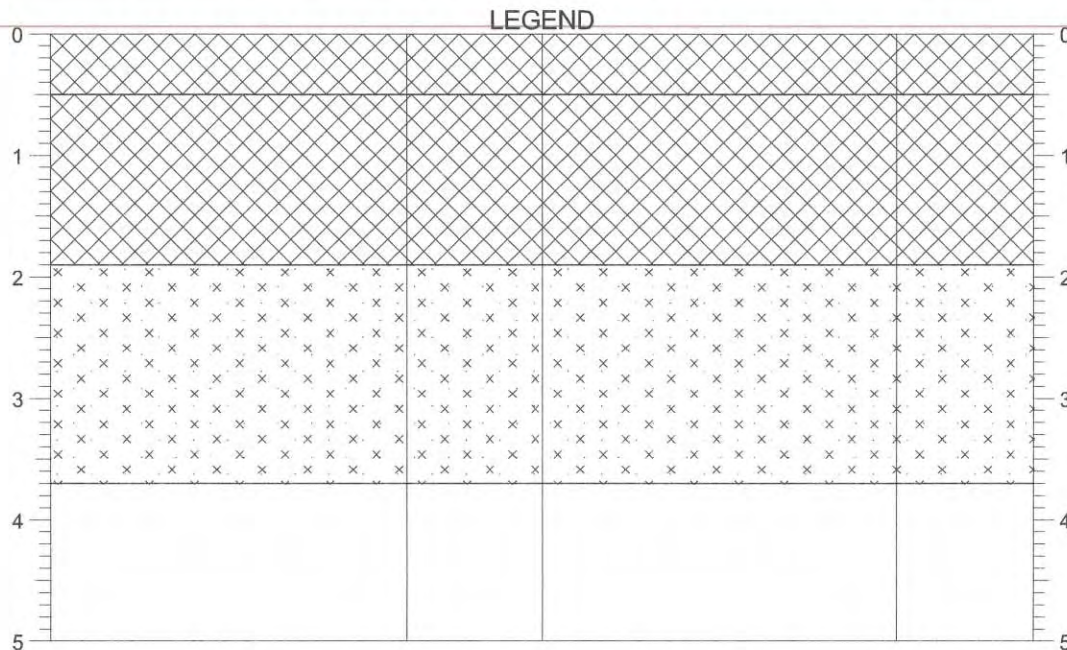
No Coordinate Data Available
No Datum Information Available

Plant Used:	JCB 3CX	Coordinates / Level (mAOD):	Logged By:	Checked By:	Approved By:
			WC	KDM	

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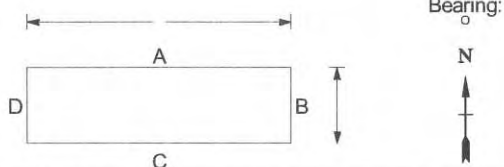


Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TP21
	TRIAL PIT LOG	Date:	10/05/2012	Client:	ABLE (UK)



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
(0.50) 0.50		Brown slightly sandy clay with rootlets. Sand is fine. (POSSIBLE MADE GROUND).	0.10-0.30	ES061		
(1.40) 1.90		Light brown mottled orange silty very sandy clay. Sand is fine. (POSSIBLE MADE GROUND).	0.90-1.20	ES062		
(1.80) 3.70		Dark brown possibly slightly organic thinly laminated fine SAND (ALLUVIUM).	2.40-2.70	ES063		
		Trial Pit completed at 3.70 m bgl.				

Shoring/Support:
Stability:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 3.70 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
unless otherwise stated

5m/page Scale: 1:62.5

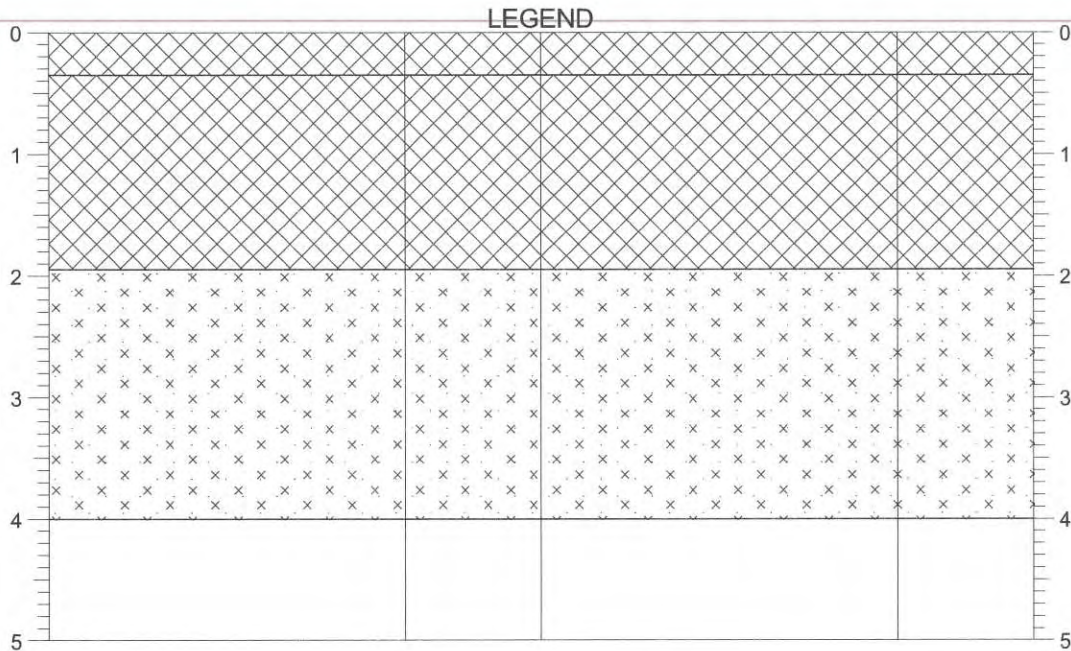
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No Datum Information Available

Plant Used:	JCB 3CX	Coordinates / Level (mAOD):	Logged By:	Checked By:	Approved By:
			WC	KDM	

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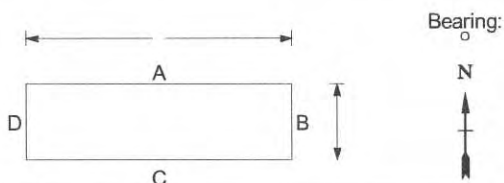


Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TP22
	TRIAL PIT LOG	Date:	10/05/2012	Client:	ABLE (UK)



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
0.35		Brown slightly sandy clay with rootlets. Sand is fine. (POSSIBLE MADE GROUND).	0.10-0.30	ES064		
(1.60)		Light brown mottled orange silty very sandy clay. Sand is fine. (POSSIBLE MADE GROUND).	1.00-1.50 1.10-1.30	B022 (x3) ES065		
1.95		Dark brown possibly slightly organic thinly laminated fine SAND (ALLUVIUM).	2.20-2.50 2.20-2.50	B023 ES066		
(2.05)						
4.00		Trial Pit completed at 4.00 m bgl.				

Shoring/Support:
Stability:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 4.00 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
unless otherwise stated

5m/page Scale: 1:62.5

No Coordinate Data Available
No Datum Information Available

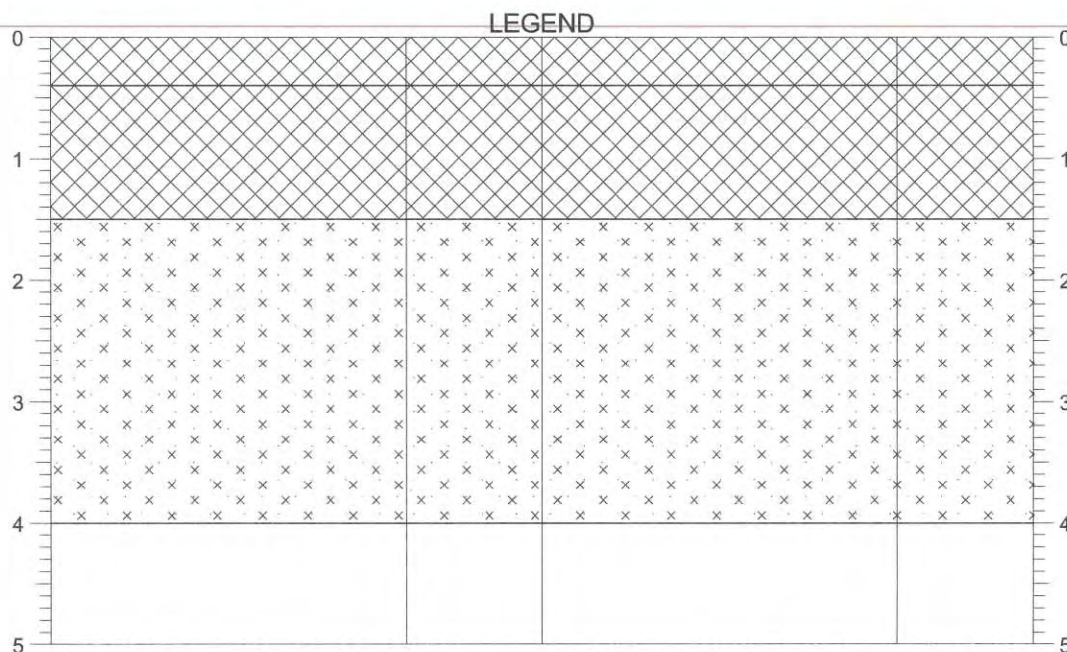
Plant Used:	JCB 3CX	Coordinates / Level (mAOD):	Logged By:	Checked By:	Approved By:
			WC	KDM	

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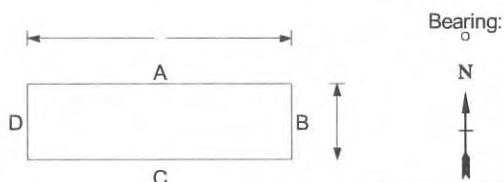
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Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TP23
	TRIAL PIT LOG	Date:	10/05/2012	Client:	ABLE (UK)



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
0.40		Brown slightly sandy clay with rootlets. Sand is fine. (POSSIBLE MADE GROUND).	0.10-0.30	ES067		
(1.10)		Light brown mottled orange silty very sandy clay. Sand is fine. (POSSIBLE MADE GROUND).	0.90-1.20	ES068		
1.50			1.00-1.50	B024 (x3)		
(2.50)		Dark brown possibly slightly organic thinly laminated fine SAND (ALLUVIUM).				
4.00			3.50-3.70	ES069		
		Trial Pit completed at 4.00 m bgl.				

Shoring/Support:
 Stability:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 4.00 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
 unless otherwise stated

5m/page Scale: 1:62.5

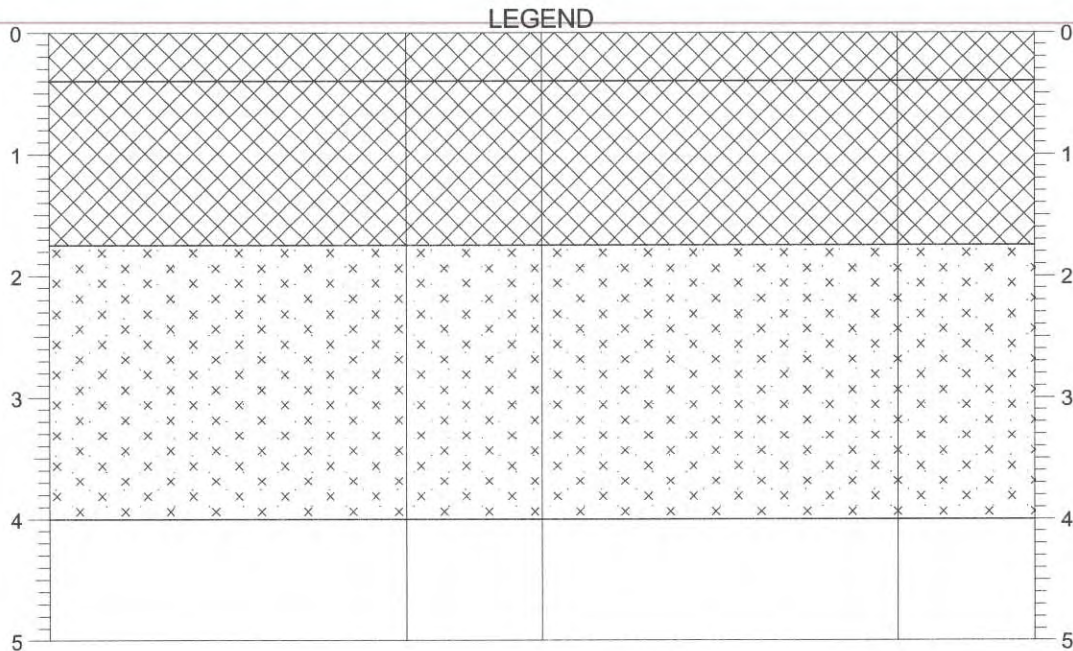
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Plant Used:	JCB 3CX	Coordinates / Level (mAOD):	Logged By:	Checked By:	Approved By:
			WC	KDM	

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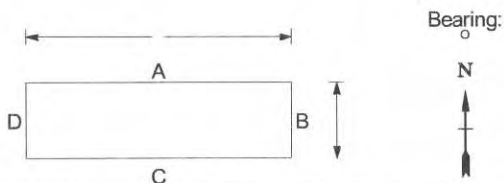


Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TP24
	TRIAL PIT LOG	Date:	10/05/2012	Client:	ABLE (UK)



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
0.40		Brown slightly sandy clay with rootlets. Sand is fine. (POSSIBLE MADE GROUND).	0.10-0.30	ES070		
(1.35)		Light brown mottled orange silty very sandy clay. Sand is fine. (POSSIBLE MADE GROUND).	1.00-1.20	ES071		
1.75		Dark brown possibly slightly organic thinly laminated fine SAND (ALLUVIUM).				
(2.25)			3.20-3.40	ES072		
4.00		Trial Pit completed at 4.00 m bgl.				

Shoring/Support:
Stability:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 4.00 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
unless otherwise stated

5m/page Scale: 1:62.5

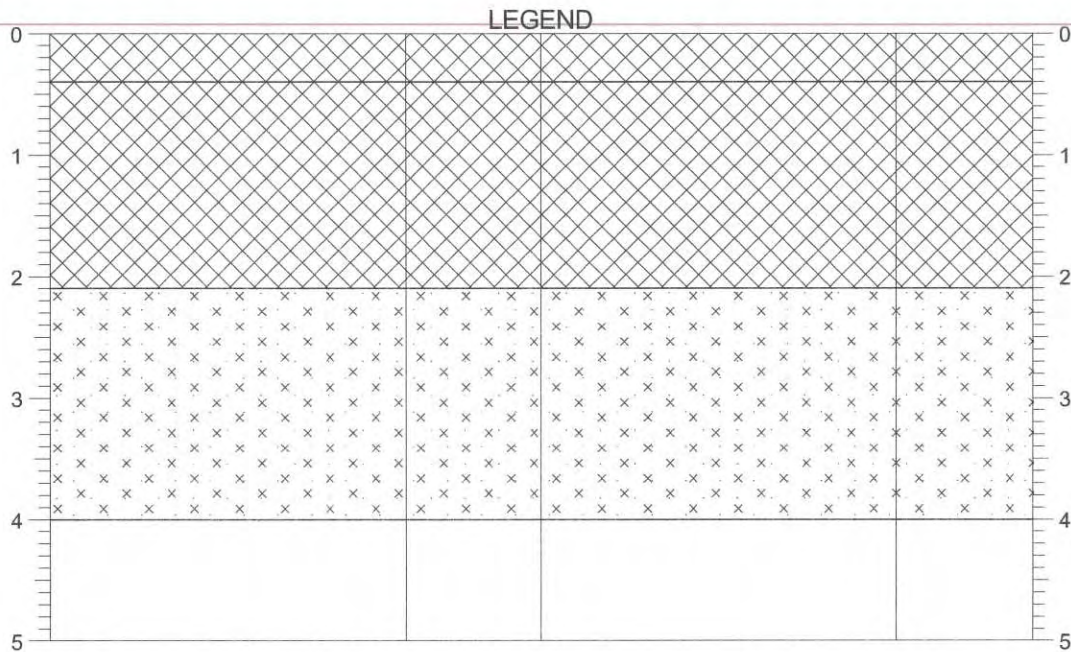
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No Datum Information Available

Plant Used:	JCB 3CX	Coordinates / Level (mAOD):	Logged By:	Checked By:	Approved By:
			WC	KDM	

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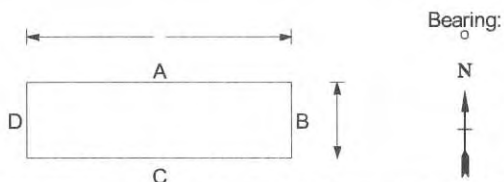


Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TP25
	TRIAL PIT LOG	Date:	10/05/2012	Client:	ABLE (UK)



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
0.40		Brown slightly sandy clay with rootlets. Sand is fine. (POSSIBLE MADE GROUND).	0.10-0.30	ES073		
(1.70)		Light brown mottled orange silty very sandy clay. Sand is fine. (POSSIBLE MADE GROUND).	1.10-1.40	ES074		
2.10						
(1.90)		Dark brown possibly slightly organic thinly laminated fine SAND (ALLUVIUM).	2.30-2.50	ES075		
4.00		Trial Pit completed at 4.00 m bgl.				

Shoring/Support:
Stability:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 4.00 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
unless otherwise stated

5m/page

Scale: 1:62.5

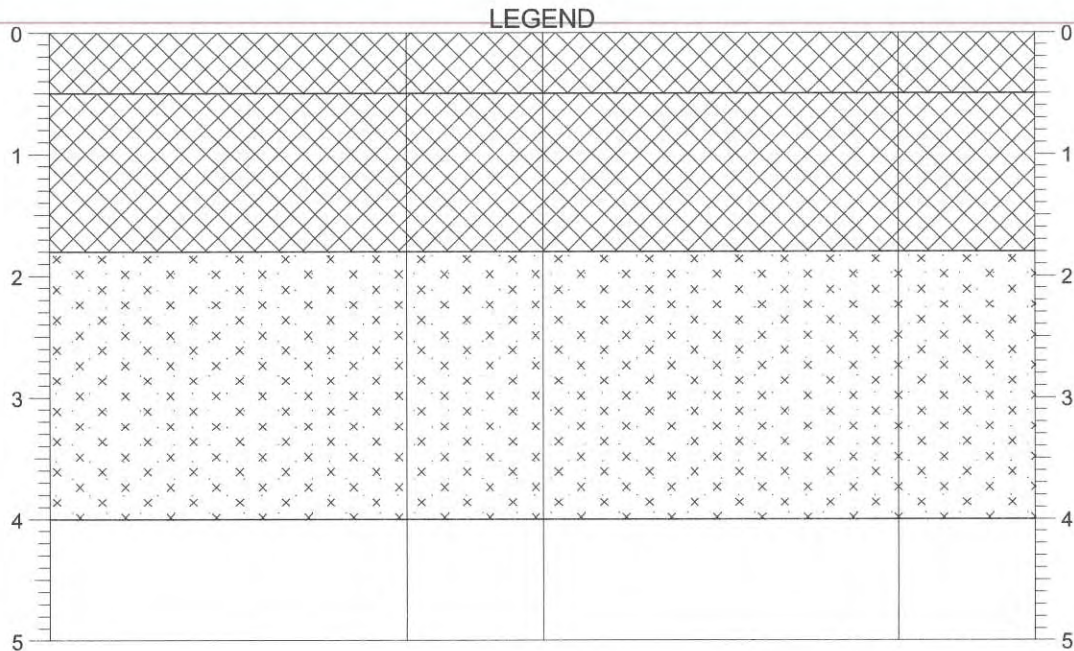
No Coordinate Data Available
No Datum Information Available

Plant Used: JCB 3CX	Coordinates / Level (mAOD):	Logged By: WC	Checked By: KDM	Approved By:
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Fax: 01522 882 567
Email: info@deltasimons.com

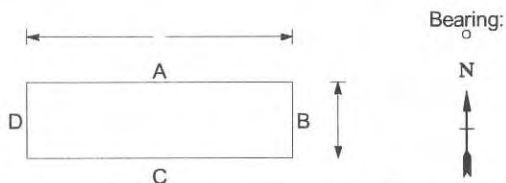


Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TP26
	TRIAL PIT LOG	Date:	14/05/2012	Client:	ABLE (UK)



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
(0.50)	0.50	Brown slightly sandy clay with rootlets. Sand is fine. (POSSIBLE MADE GROUND).	0.10-0.30	076		
(1.30)		Light brown mottled orange silty very sandy clay. Sand is fine. (POSSIBLE MADE GROUND).	1.00-1.50	025 (x3)		
	1.80		1.10-1.40	077		
(2.20)		Dark brown possibly slightly organic thinly laminated fine SAND (ALLUVIUM).				
			3.30-3.50	026		
	4.00		3.30-3.50	078		
		Trial Pit completed at 4.00 m bgl.				

Shoring/Support:
Stability:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 4.00 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
unless otherwise stated

5m/page

Scale: 1:62.5

No Coordinate Data Available
No Datum Information Available

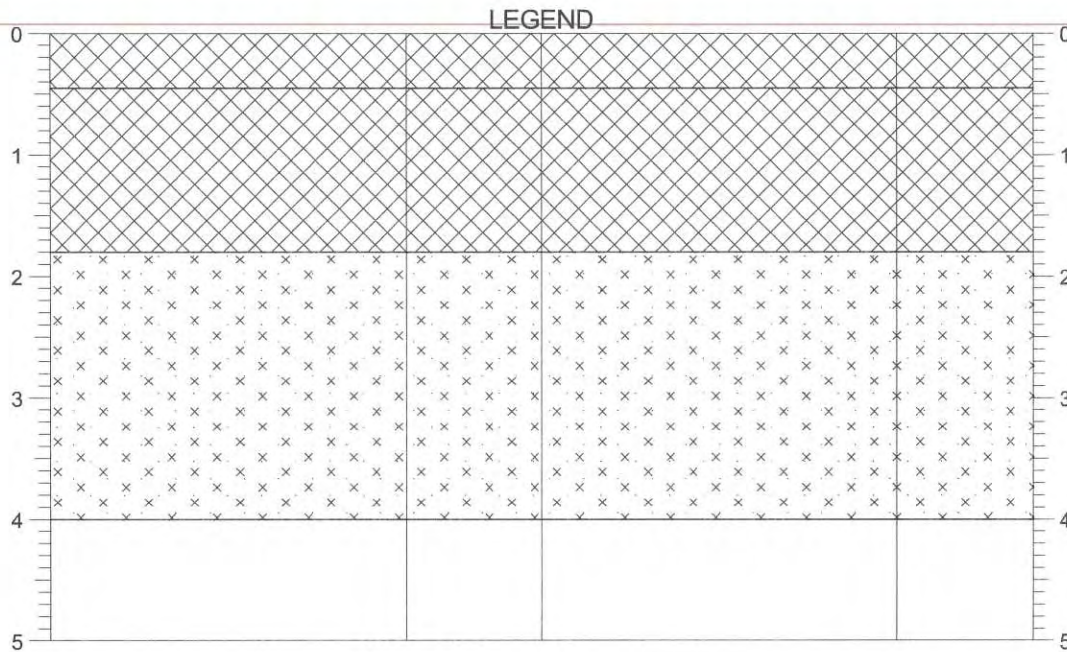
Plant Used:	JCB 3CX	Coordinates / Level (mAOD):	Logged By:	WC	Checked By:	KDM	Approved By:
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Email: info@deltasimons.com



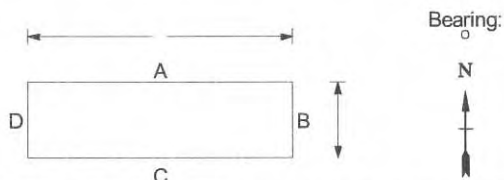
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Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TP27
	TRIAL PIT LOG	Date:	14/05/2012	Client:	ABLE (UK)



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
0.45		Brown slightly sandy clay with rootlets. Sand is fine. (POSSIBLE MADE GROUND).	0.10-0.30	ES079		
(1.35)		Light brown mottled orange silty very sandy clay. Sand is fine. (POSSIBLE MADE GROUND).	1.00-1.50 1.10-1.40	B027 (x3) ES080		
1.80						
(2.20)		Dark brown possibly slightly organic thinly laminated fine SAND (ALLUVIUM).	2.70-3.10 2.70-3.10	B028 ES081		
4.00						
		Trial Pit completed at 4.00 m bgl.				

Shoring/Support:
Stability:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 4.00 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
unless otherwise stated

5m/page

Scale: 1:62.5

No Coordinate Data Available
No Datum Information Available

Plant Used:	Coordinates / Level (mAOD):	Logged By:	Checked By:	Approved By:
JCB 3CX		WC	KDM	

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Project:

Cherry Cobb Sands

Project No:

10-0241.02

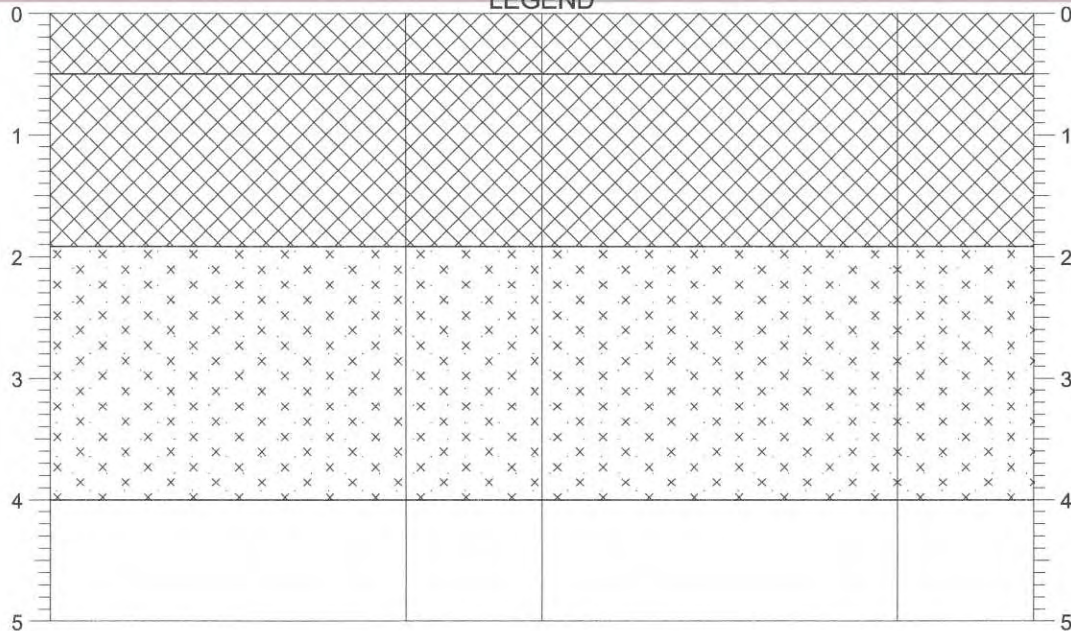
Hole ID:

TP28**TRIAL PIT LOG**

Date:

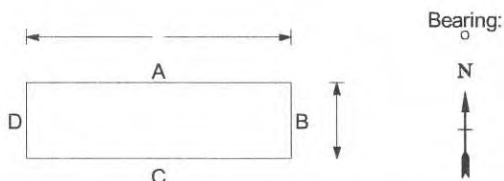
14/05/2012

Client:

ABLE (UK)**LEGEND****STRATA****SAMPLES****TESTS**

Depth	No	DESCRIPTION	Depth	No	Depth	Results
(0.50)	0.50	Brown slightly sandy clay with rootlets. Sand is fine. (POSSIBLE MADE GROUND).	0.10-0.30	ES082		
(1.42)	1.92	Light brown slightly organic mottled orange silty very sandy clay. Sand is fine. (POSSIBLE MADE GROUND).	1.00-1.30 1.00-1.50	ES083 B029 (x3)		
(2.08)	4.00	Dark brown possibly slightly organic thinly laminated fine SAND (ALLUVIUM).	2.00-2.30 2.00-2.30	B030 ES084		
		Trial Pit completed at 4.00 m bgl.				

Shoring/Support:
 Stability:

**REMARKS :**

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 4.00 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
 unless otherwise stated

5m/page

Scale: 1:62.5

No Coordinate Data Available
 No Datum Information Available

Plant Used:

JCB 3CX

Coordinates / Level (mAOD):

Logged By:

WC

Checked By:

KDM

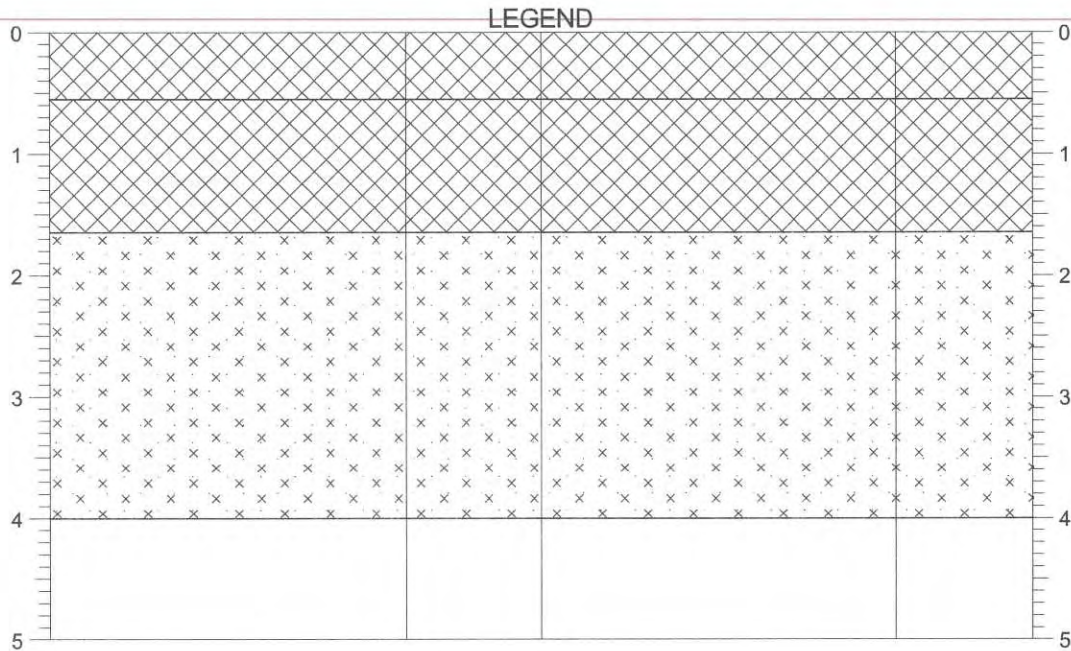
Approved By:

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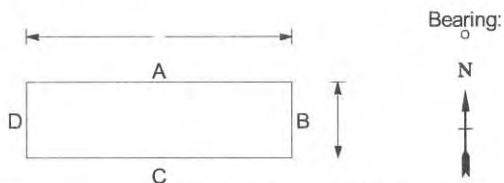
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Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TP29
	TRIAL PIT LOG	Date:	14/05/2012	Client:	ABLE (UK)



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
(0.55) 0.55		Brown slightly sandy clay with rootlets. Sand is fine. (POSSIBLE MADE GROUND).	0.10-0.30	ES085		
(1.10) 1.65		Light brown mottled orange silty very sandy clay. Sand is fine. (POSSIBLE MADE GROUND).	1.00-1.50 1.10-1.40	B031 (x3) ES086		
(2.35) 4.00		Dark brown possibly slightly organic thinly laminated fine SAND (ALLUVIUM).	2.50-2.80 3.70-3.90	ES087 B032		
		Trial Pit completed at 4.00 m bgl.				

Shoring/Support:
Stability:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 4.00 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres unless otherwise stated	5m/page	Scale: 1:62.5	No Coordinate Data Available No Datum Information Available		
Plant Used: JCB 3CX	Coordinates / Level (mAOD):	Logged By: WC	Checked By: KDM	Approved By:	

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Project:

Cherry Cobb Sands

Project No:

10-0241.02

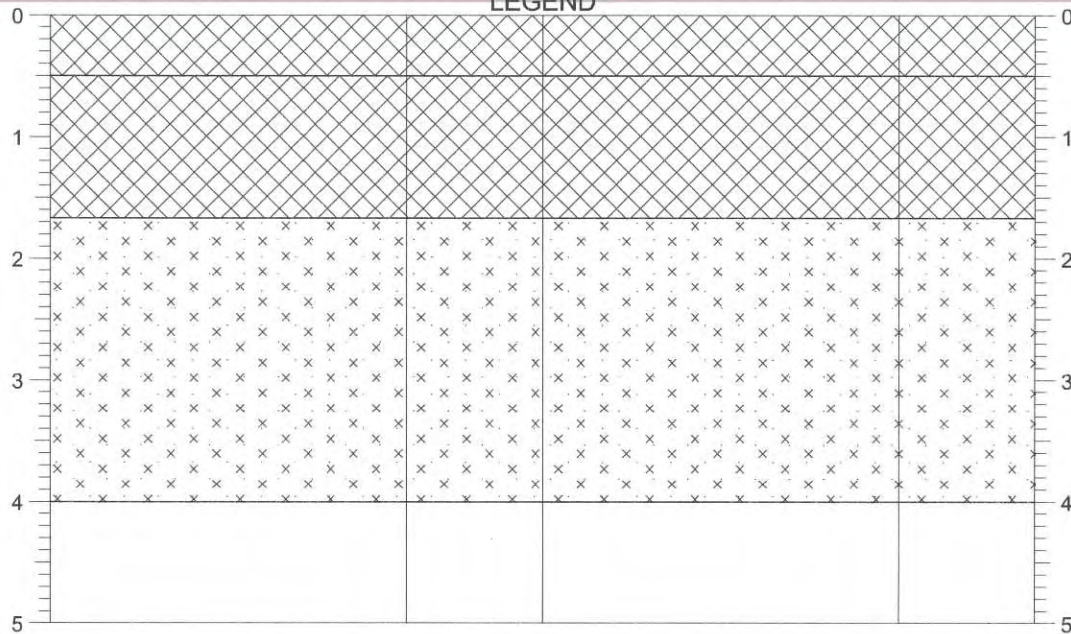
Hole ID:

TP30**TRIAL PIT LOG**

Date:

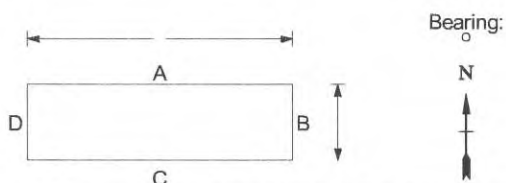
14/05/2012

Client:

ABLE (UK)**LEGEND****STRATA****SAMPLES****TESTS**

Depth	No	DESCRIPTION	Depth	No	Depth	Results
(0.50) 0.50		Brown slightly sandy clay with rootlets. Sand is fine. (POSSIBLE MADE GROUND).	0.10-0.30	ES088		
(1.17) 1.67		Light brown mottled orange silty very sandy clay. Sand is fine. (POSSIBLE MADE GROUND).	1.00-1.30 1.00-1.50	ES089 B033 (x3)		
(2.33) 4.00		Dark brown possibly slightly organic thinly laminated fine SAND (ALLUVIUM).	2.50-2.80 2.80-3.10	B034 ES090		
		Trial Pit completed at 4.00 m bgl.				

Shoring/Support:
Stability:

**REMARKS :**

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 4.00 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
unless otherwise stated

5m/page

Scale: 1:62.5

No Coordinate Data Available
No Datum Information Available

Plant Used:

JCB 3CX

Coordinates / Level (mAOD):

Logged By:

WC

Checked By:

KDM

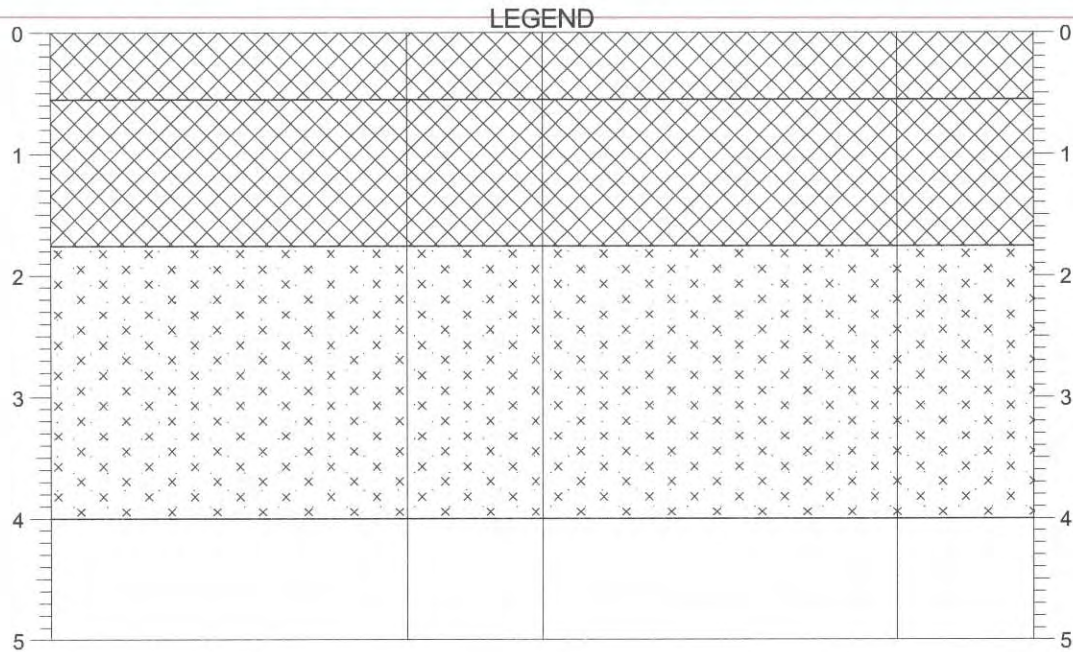
Approved By:

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 Email: info@deltasimons.com



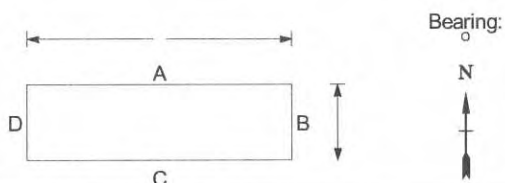
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Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TP31
	TRIAL PIT LOG	Date:	14/05/2012	Client:	ABLE (UK)



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
(0.55) 0.55		Brown slightly sandy clay with rootlets. Sand is fine. (POSSIBLE MADE GROUND).	0.10-0.30	ES091		
(1.21) 1.76		Light brown mottled orange silty very sandy clay. Sand is fine. (POSSIBLE MADE GROUND).	1.00-1.30 1.00-1.50	ES092 B035 (x3)		
(2.24) 4.00		Dark brown possibly slightly organic thinly laminated fine SAND (ALLUVIUM).	2.80-3.10 2.80-3.10	B036 ES093		
		Trial Pit completed at 4.00 m bgl.				

Shoring/Support:
 Stability:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 4.00 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
 unless otherwise stated

5m/page Scale: 1:62.5

No Coordinate Data Available
 No Datum Information Available

Plant Used:	JCB 3CX	Coordinates / Level (mAOD):	Logged By:	Checked By:	Approved By:
			WC	KDM	

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Project:

Cherry Cobb Sands

Project No:

10-0241.02

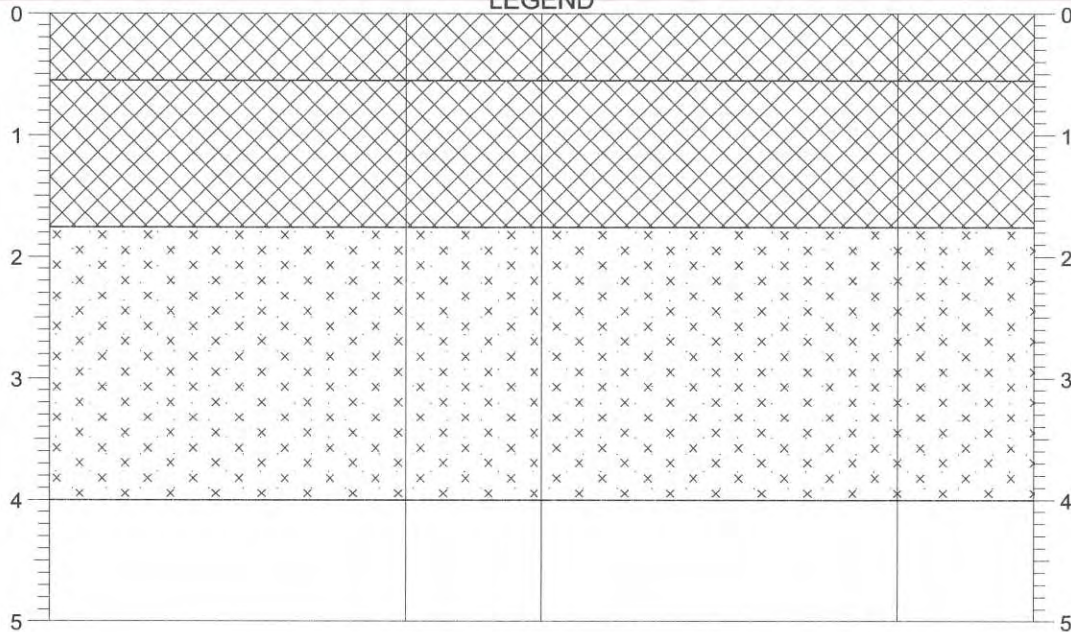
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TP32**TRIAL PIT LOG**

Date:

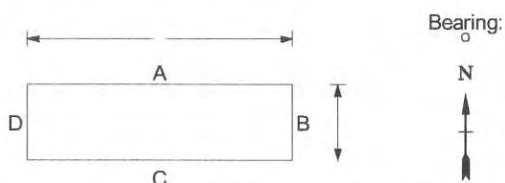
14/05/2012

Client:

ABLE (UK)**LEGEND****STRATA****SAMPLES****TESTS**

Depth	No	DESCRIPTION	Depth	No	Depth	Results
(0.55) 0.55		Brown slightly sandy clay with rootlets. Sand is fine. (POSSIBLE MADE GROUND).	0.10-0.30	ES094		
(1.21) 1.76		Light brown mottled orange silty very sandy clay. Sand is fine. (POSSIBLE MADE GROUND).	1.00-1.50 1.10-1.40	B037 (x3) ES095		
(2.24) 4.00		Dark brown possibly slightly organic thinly laminated fine SAND (ALLUVIUM).	2.60-2.90 2.60-2.90	B038 ES096		
		Trial Pit completed at 4.00 m bgl.				

Shoring/Support:
 Stability:

**REMARKS :**

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 4.00 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
 unless otherwise stated

5m/page

Scale: 1:62.5

No Coordinate Data Available
 No Datum Information Available

Plant Used:

JCB 3CX

Coordinates / Level (mAOD):

Logged By:

WC

Checked By:

KDM

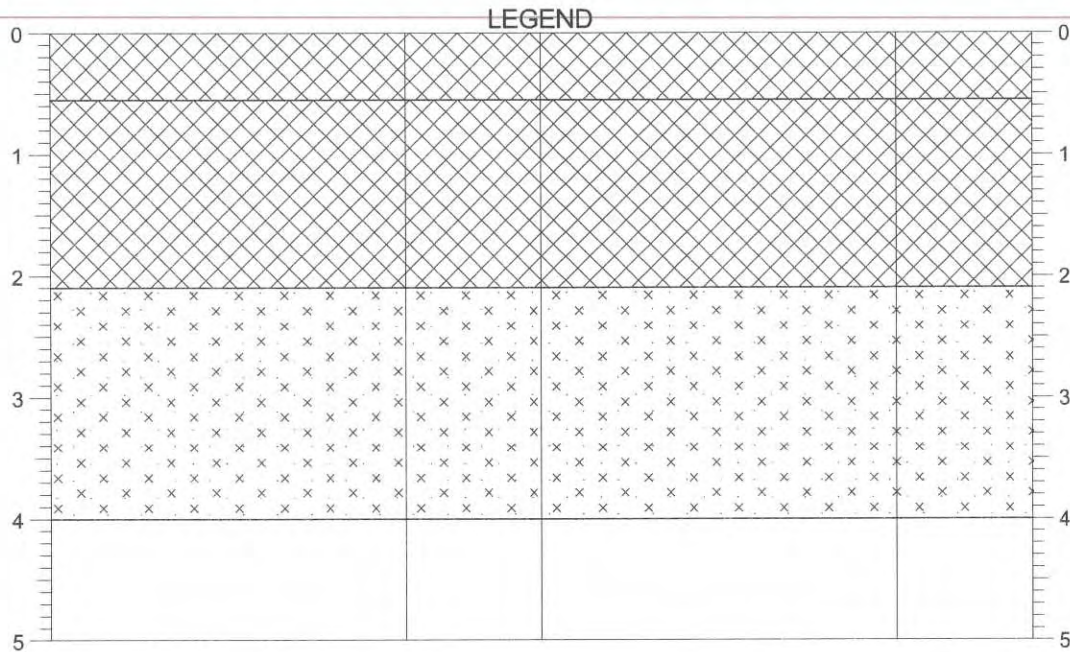
Approved By:

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 Fax: 01522 882 567
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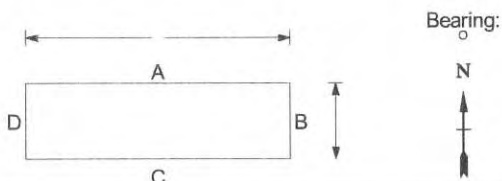
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Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TP33
	TRIAL PIT LOG	Date:	14/05/2012	Client:	ABLE (UK)



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
(0.55)	0.55	Brown slightly sandy clay with rootlets. Sand is fine. (POSSIBLE MADE GROUND).	0.10-0.30	ES097		
(1.55)	2.10	Light brown mottled orange silty very sandy clay. Sand is fine. (POSSIBLE MADE GROUND).	1.00-1.50 1.10-1.40	B039 (x3) ES098		
(1.90)	4.00	Dark brown possibly slightly organic thinly laminated fine SAND (ALLUVIUM).	2.80-3.20 2.80-3.20	B040 ES099		
		Trial Pit completed at 4.00 m bgl.				

Shoring/Support:
 Stability:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 4.00 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
 unless otherwise stated

5m/page

Scale: 1:62.5

No Coordinate Data Available
 No Datum Information Available

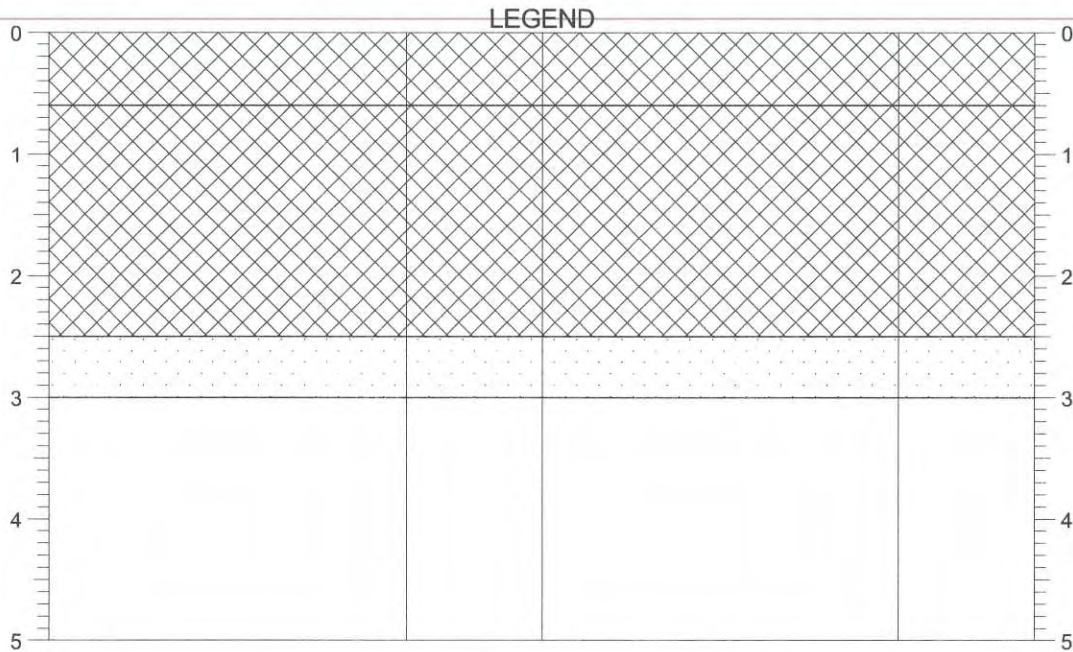
Plant Used:	JCB 3CX	Coordinates / Level (mAOD):	Logged By:	Checked By:	Approved By:
			WC	KDM	

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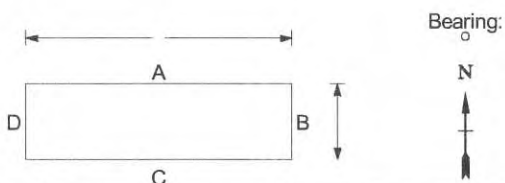
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Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TP34 (TR125)
	TRIAL PIT LOG	Date:	15/05/2012	Client:	ABLE (UK)

**STRATA****SAMPLES****TESTS**

Depth	No	DESCRIPTION	Depth	No	Depth	Results
(0.60) 0.60		MADE GROUND comprising brown slightly sandy clay with rootlets.				
(1.90) 2.50		MADEGROUND comprising of degrading hydrocarbons, grit, local bright blue discoloration, possible asbestos and wire.				
(0.50) 3.00		Dark brown possibly slightly organic thinly laminated fine SAND (ALLUVIUM).				
		Trial Pit completed at 3.00 m bgl.				

Shoring/Support:
Stability:

**REMARKS :**

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 0.60 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
unless otherwise stated

5m/page

Scale: 1:62.5

No Coordinate Data Available
No Datum Information Available

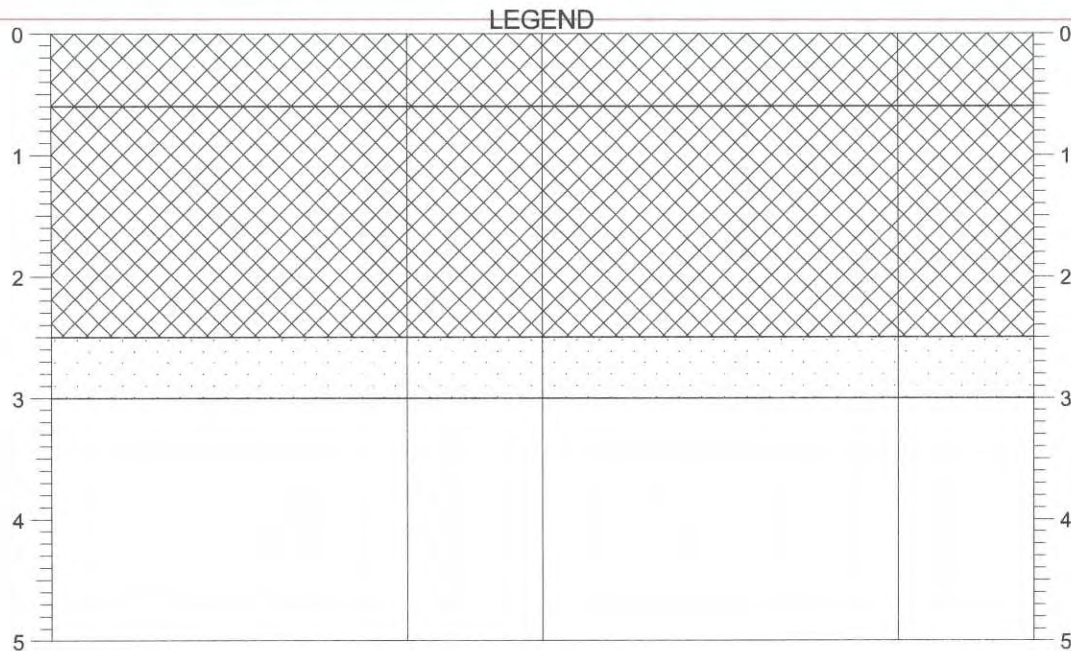
Plant Used: 360 Excavator	Coordinates / Level (mAOD):	Logged By: WC	Checked By: KDM	Approved By:
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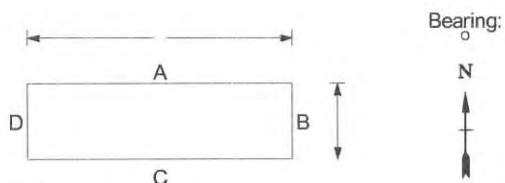
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Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TP35 (TR126)
	TRIAL PIT LOG	Date:	15/05/2012	Client:	ABLE (UK)



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
(0.60) 0.60		MADE GROUND comprising brown slightly sandy clay with rootlets.	0.60-2.50	B		
(1.90) 2.50		MADEGROUND comprising of degrading hydrocarbons, grit, bright blue sustance, possible asbestos and wire.				
(0.50) 3.00		Dark brown possibly slightly organic thinly laminated fine SAND (ALLUVIUM).				
		Trial Pit completed at 3.00 m bgl.				

Shoring/Support:
 Stability:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 3.00 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
 unless otherwise stated

5m/page Scale: 1:62.5

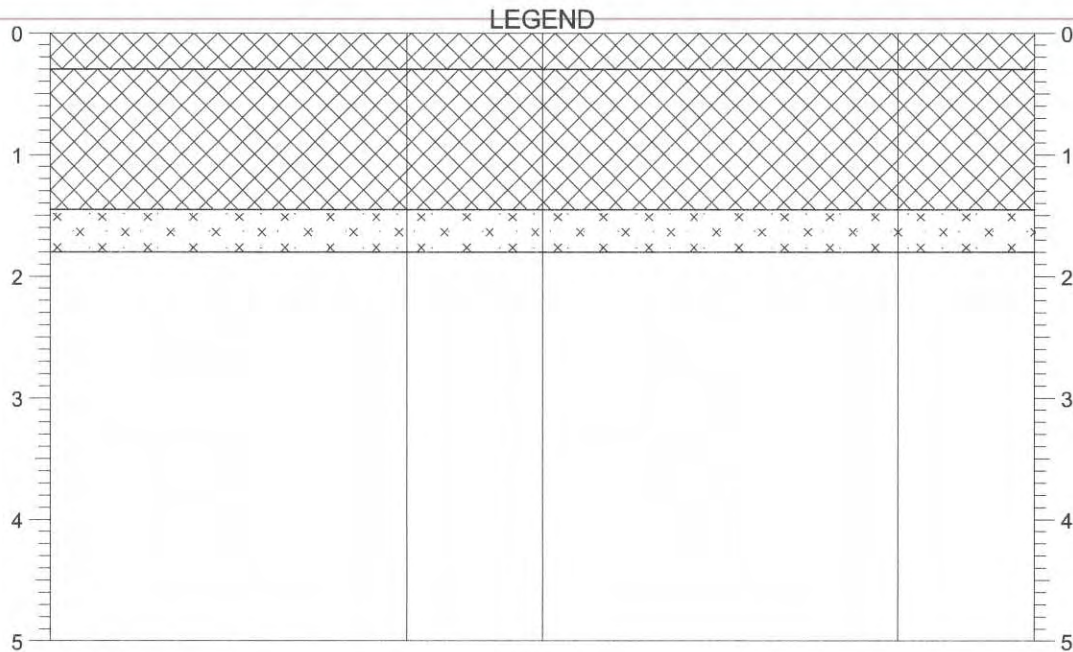
No Coordinate Data Available
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Plant Used: 360 Excavator	Coordinates / Level (mAOD):	Logged By: WC	Checked By: KDM	Approved By:
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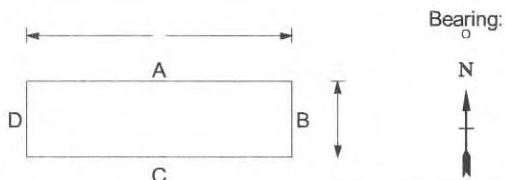


Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TR101
	TRIAL PIT LOG	Date:		Client:	ABLE (UK)



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
0.30		Firm brown clay topsoil. Many thin rootlets. (POSSIBLE MADE GROUND).	0.10-0.30	ES		
(1.15)		Pale brown silty fine sand. (POSSIBLE MADE GROUND).	0.80-1.00	ES		
1.45						
1.80		Dark greyish black thinly and thickly laminated sandy possible organic SILT. Sand is fine. [ALLUVIUM]	1.50-1.70	ES		
		Terminated due to trench instability below 1.50 m bgl.				

Shoring/Support:
 Stability:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 1.80 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
 unless otherwise stated

5m/page Scale: 1:62.5

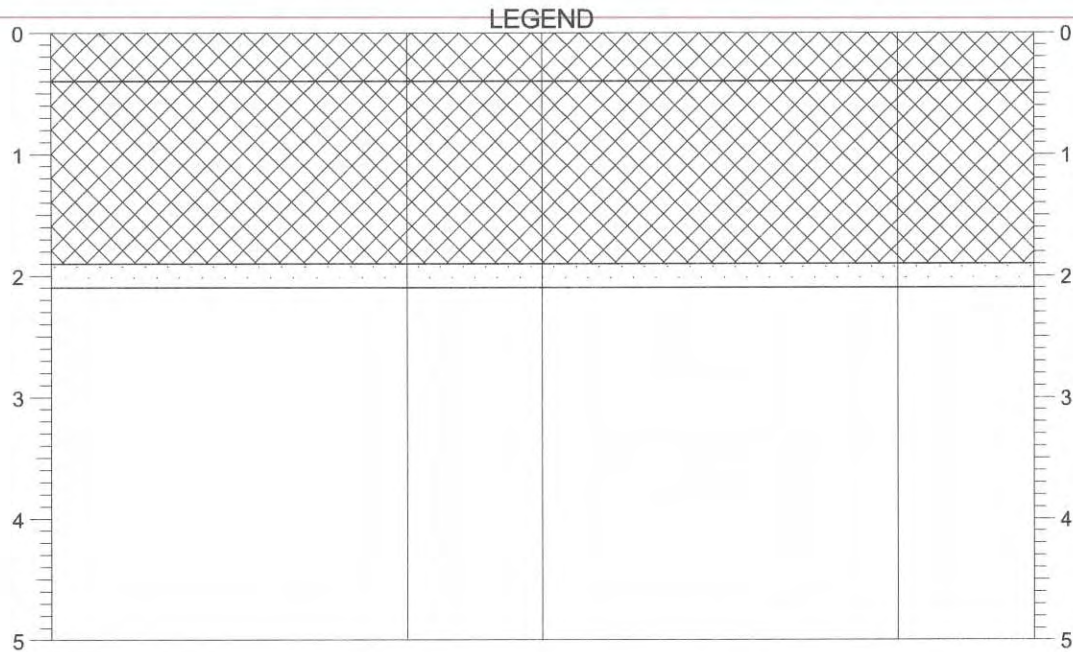
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Plant Used: 360 Excavator	Coordinates / Level (mAOD):	Logged By: WC/ST	Checked By: KDM	Approved By:
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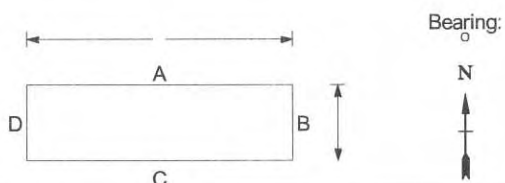


Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TR102
	TRIAL PIT LOG	Date:		Client:	ABLE (UK)



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
0.40		Firm brown clay topsoil. Many thin rootlets. (POSSIBLE MADE GROUND).	0.10-0.30	ES		
(1.50)		Pale brown slightly clayey silty fine sand. (POSSIBLE MADE GROUND).	0.40-0.70	ES		
1.90			1.50-1.80	B		
2.10		Dark greyish black possible organic thinly laminated slightly silty fine SAND. [ALLUVIUM]	1.90-2.00	ES		
		Trial Pit completed at 2.10 m bgl.				

Shoring/Support:
 Stability:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 2.10 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
 unless otherwise stated

5m/page

Scale: 1:62.5

No Coordinate Data Available
 No Datum Information Available

Plant Used:
 360 Excavator

Coordinates / Level (mAOD):

Logged By:
 WC/ST

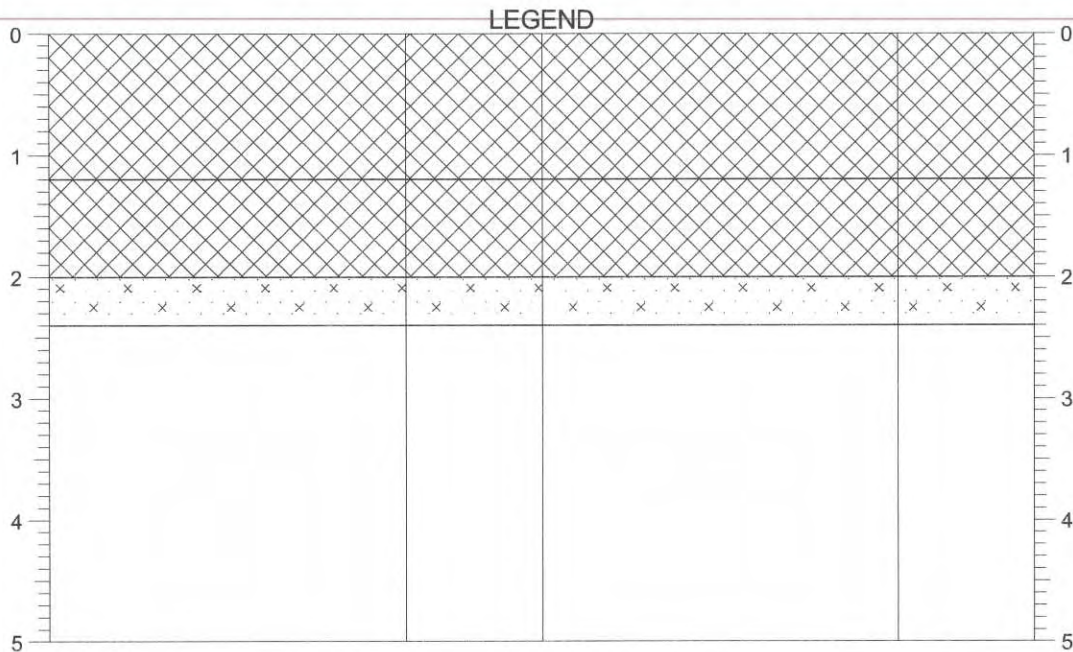
Checked By:
 KDM

Approved By:

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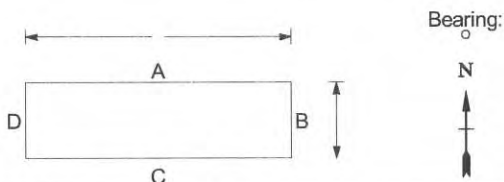


Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TR103
	TRIAL PIT LOG	Date:		Client:	ABLE (UK)



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
(1.20)		Firm brown clay topsoil. Many thin rootlets. (POSSIBLE MADE GROUND).				
1.20						
(0.80)		Pale brown slightly clayey very silty fine SAND. (POSSIBLE MADE GROUND).				
2.00						
2.40		Dark greyish black possibly organic thinly laminated slightly clayey very silty fine SAND. [ALLUVIUM]				
		Trial Pit completed at 2.40 m bgl.				

Shoring/Support:
Stability:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 2.40 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
unless otherwise stated

5m/page

Scale: 1:62.5

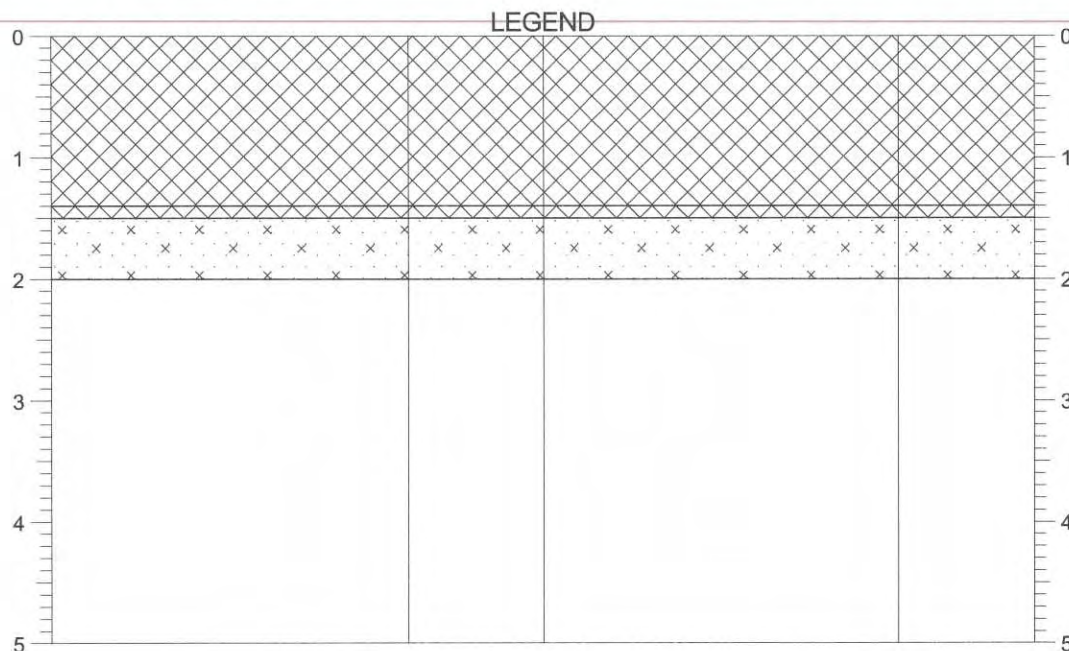
No Coordinate Data Available
No Datum Information Available

Plant Used: 360 Excavator	Coordinates / Level (mAOD):	Logged By: WC/ST	Checked By: KDM	Approved By:
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Delta-Simons Environmental Consultants Ltd
 The Lawn, Union Road,
 Lincoln LN1 3BL
 Tel: 08700 400 012
 Fax: 01522 882 567
 Email: info@deltasimons.com

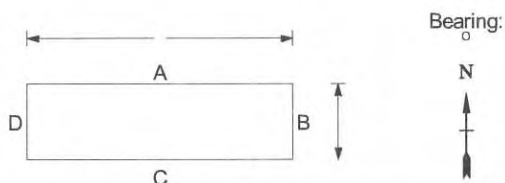


Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TR104
	TRIAL PIT LOG	Date:		Client:	ABLE (UK)



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
(1.40)		Firm brown clay topsoil. Many thin rootlets. (POSSIBLE MADE GROUND).	0.00-0.50	ES		
1.40			1.00-1.50	B		
1.50		Pale brown slightly clayey very sandy silt. Sand is fine. (POSSIBLE MADE GROUND).	1.10-1.40	ES		
(0.50)		Dark greyish black possibly organic thinly laminated slightly clayey very silty fine SAND. [ALLUVIUM]	1.50-1.60	ES		
2.00		Trial Pit completed at 2.00 m bgl.				

Shoring/Support:
Stability:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 2.00 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
unless otherwise stated

5m/page

Scale: 1:62.5

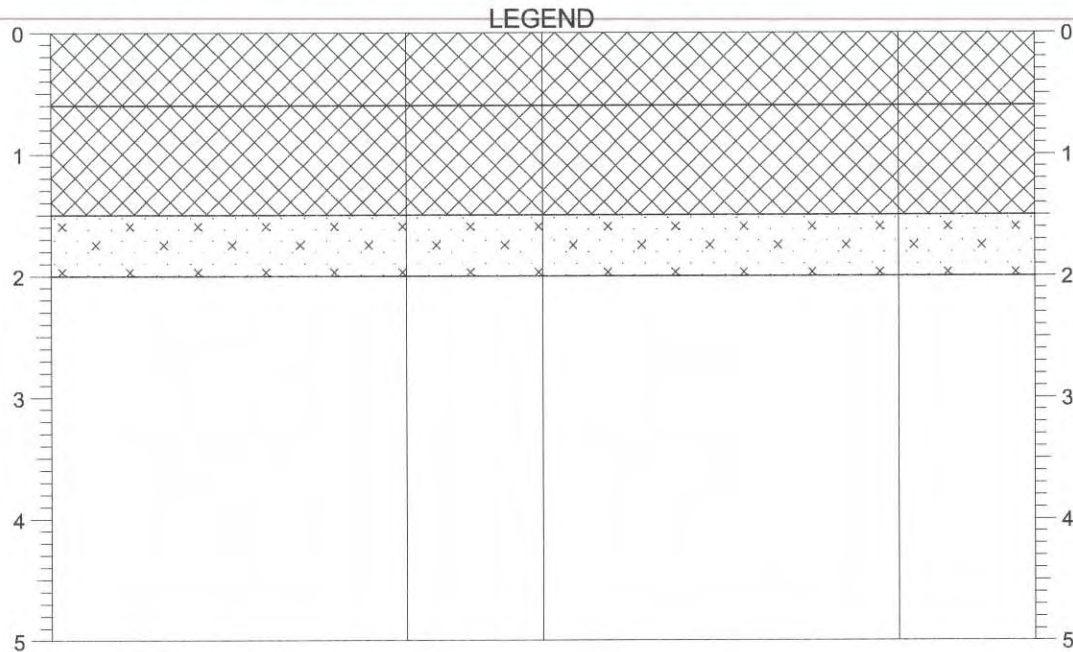
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Plant Used:	360 Excavator	Coordinates / Level (mAOD):	Logged By:	Checked By:	Approved By:
			WC/ST	KDM	

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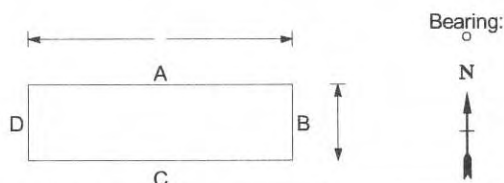


Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TR104a
	TRIAL PIT LOG	Date:		Client:	ABLE (UK)



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
(0.60) 0.60		Firm brown clay topsoil. Many thin rootlets. (POSSIBLE MADE GROUND).				
(0.90) 1.50		Pale brown slightly clayey very sandy silt. Sand is fine. (POSSIBLE MADE GROUND).				
(1.50) 2.00		Dark greyish black possibly organic thinly laminated slightly clayey very silty fine SAND. [ALLUVIUM]				
		Trial Pit completed at 2.00 m bgl.				

Shoring/Support:
 Stability:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 2.00 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
 unless otherwise stated

5m/page

Scale: 1:62.5

No Coordinate Data Available
 No Datum Information Available

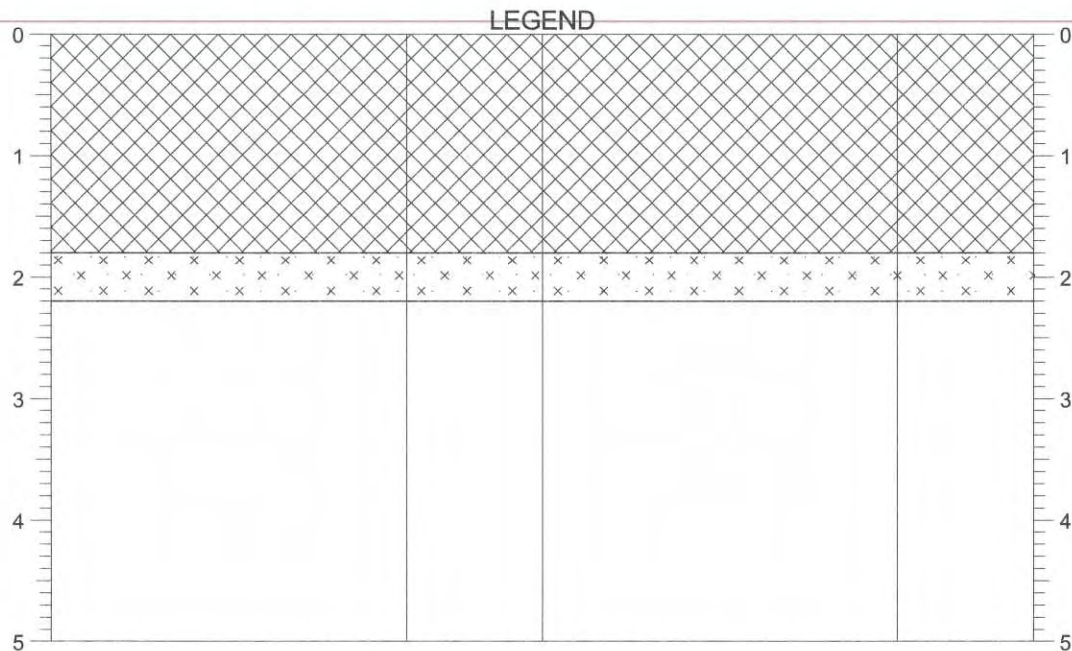
Plant Used: 360 Excavator	Coordinates / Level (mAOD):	Logged By: WC/ST	Checked By: KDM	Approved By:
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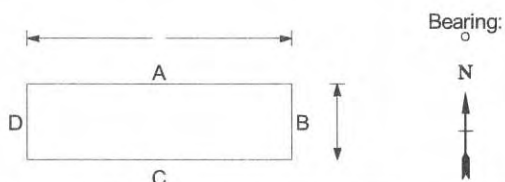
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Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TR105
	TRIAL PIT LOG	Date:		Client:	ABLE (UK)



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
(1.80)		Firm brown clay topsoil. Many thin rootlets. (POSSIBLE MADE GROUND).	0.00-0.20	ES		
1.80						
2.20		Dark greyish black possibly organic thinly laminated slightly clayey very sandy SILT. Sand is fine. [ALLUVIUM]	1.80-1.90	ES		
		Trial Pit terminated due to instability at 2.20 m bgl.				

Shoring/Support:
 Stability:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 2.20 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
 unless otherwise stated

5m/page

Scale: 1:62.5

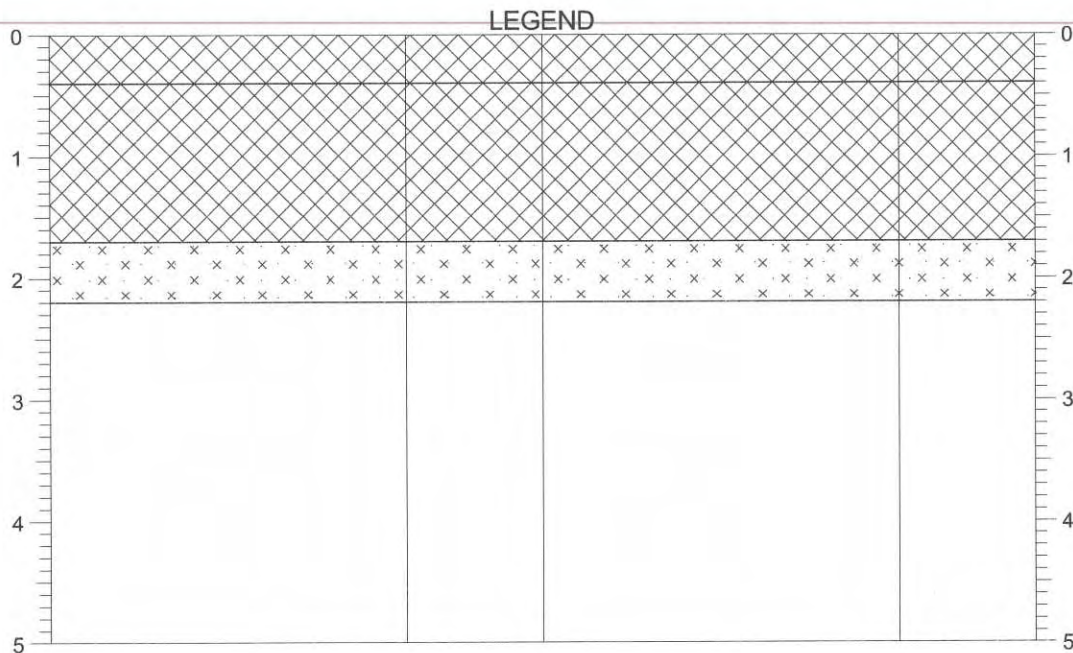
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Plant Used:	360 Excavator	Coordinates / Level (mAOD):	Logged By:	Checked By:	Approved By:
			WC/ST	KDM	

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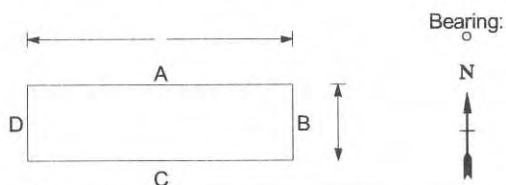


Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TR105a
	TRIAL PIT LOG	Date:		Client:	ABLE (UK)



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
0.40		Firm brown clay topsoil. Many thin rootlets. (POSSIBLE MADE GROUND).	0.60-0.70 0.80-1.00	ES B		
(1.30)		Pale brown slightly clayey very sandy silt. Sand is fine. (POSSIBLE MADE GROUND).				
1.70						
(50) 2.20		Dark greyish black possibly organic thinly laminated slightly clayey very sandy SILT. Sand is fine. [ALLUVIUM]				
		Trial pit completed at 2.20 m bgl.				

Shoring/Support:
Stability:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 2.20 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
unless otherwise stated

5m/page

Scale: 1:62.5

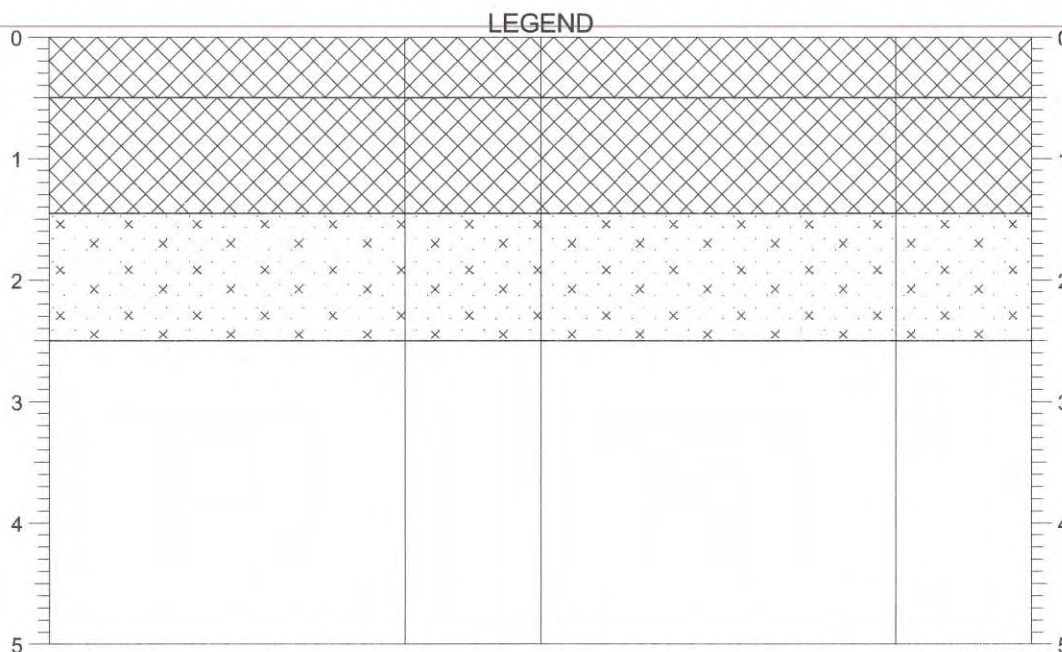
No Coordinate Data Available
No Datum Information Available

Plant Used: 360 Excavator	Coordinates / Level (mAOD):	Logged By: WC/ST	Checked By: KDM	Approved By:
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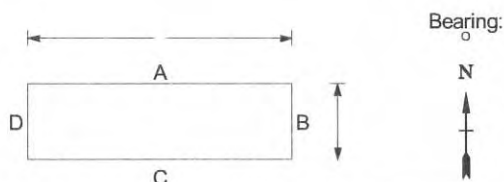


Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TR106
	TRIAL PIT LOG	Date:		Client:	ABLE (UK)



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
(0.50)	0.50	Firm brown clay topsoil. Many thin rootlets. (POSSIBLE MADE GROUND).	0.00-0.50	ES		
(0.95)	1.45	Pale brown very sandy silt. Sand is fine. (POSSIBLE MADE GROUND).	0.80-1.00	ES		
(1.05)	2.50	Dark greyish black possibly organic thinly laminated slightly clayey very silty fine SAND. [ALLUVIUM]	1.60-1.80	ES		
		Trial pit terminated due to instability at 2.50 m bgl.				

Shoring/Support:
Stability:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 2.50 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
unless otherwise stated

5m/page

Scale: 1:62.5

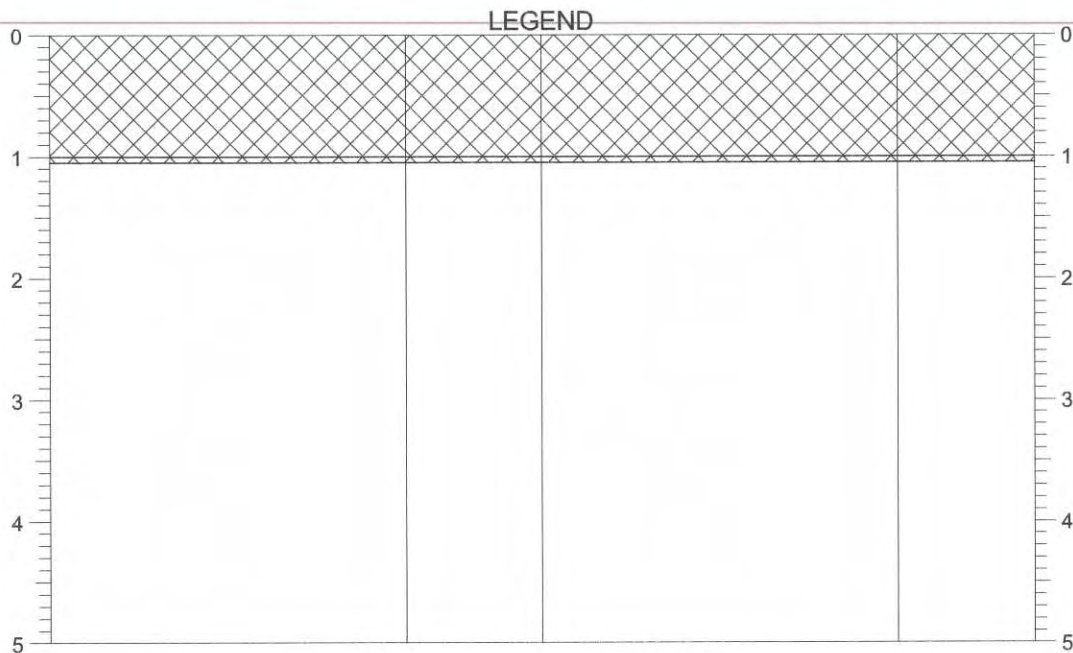
No Coordinate Data Available
No Datum Information Available

Plant Used: 360 Excavator	Coordinates / Level (mAOD):	Logged By: WC/ST	Checked By: KDM	Approved By:
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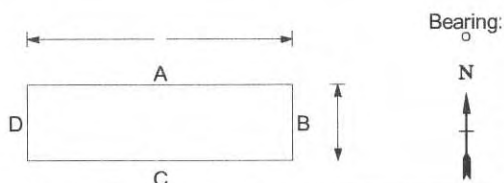


Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TR106a
	TRIAL PIT LOG	Date:		Client:	ABLE (UK)



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
(1.00)		Firm brown clay topsoil. Many thin rootlets. (POSSIBLE MADE GROUND).				
1.00						
1.05		Pale brown very sandy silt. Sand is fine. (POSSIBLE MADE GROUND).				
		Trial pit terminated at 1.05 m bgl due to obstruction.				

Shoring/Support:
Stability:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 1.05 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
unless otherwise stated

5m/page

Scale: 1:62.5

No Coordinate Data Available
No Datum Information Available

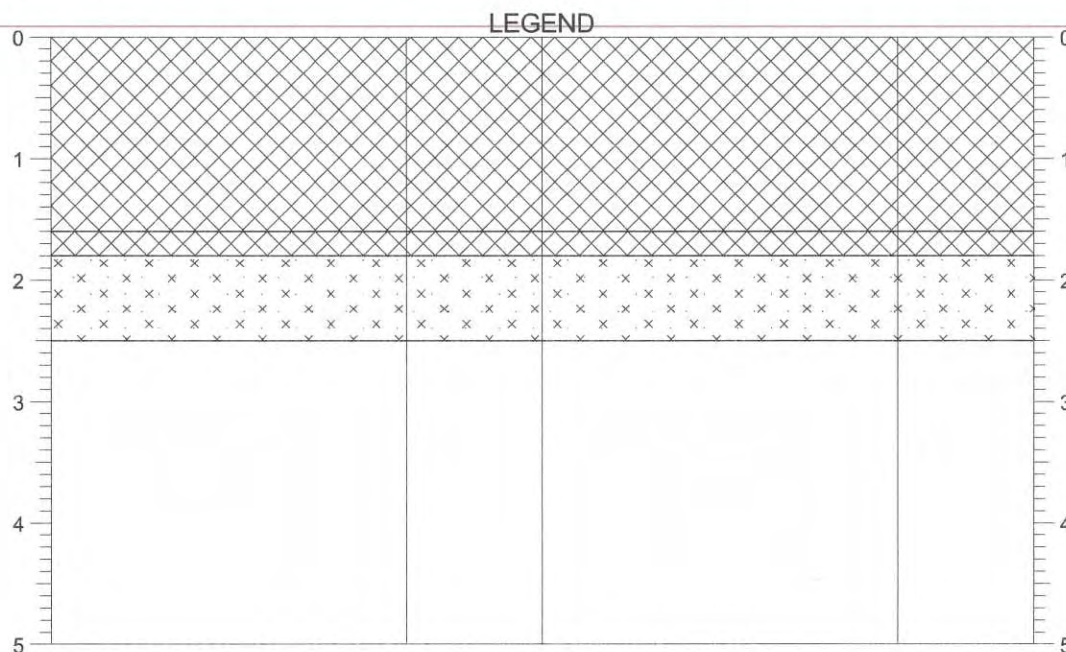
Plant Used: 360 Excavator	Coordinates / Level (mAOD):	Logged By: WC/ST	Checked By: KDM	Approved By:
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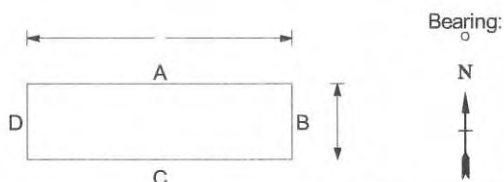
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Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TR107
	TRIAL PIT LOG	Date:		Client:	ABLE (UK)



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
(1.60)		Firm brown clay topsoil. Many thin rootlets. (POSSIBLE MADE GROUND).				
1.60						
1.80		Pale brown sl clayey sandy silt. Sand is fine. (POSSIBLE MADE GROUND).				
(0.70)		Dark greyish black thinly laminated slightly clayey sandy SILT. Sand is fine. [ALLUVIUM]				
2.50						
		Trial pit completed at 2.50 m bgl.				

Shoring/Support:
 Stability:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 2.50 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
 unless otherwise stated

5m/page

Scale: 1:62.5

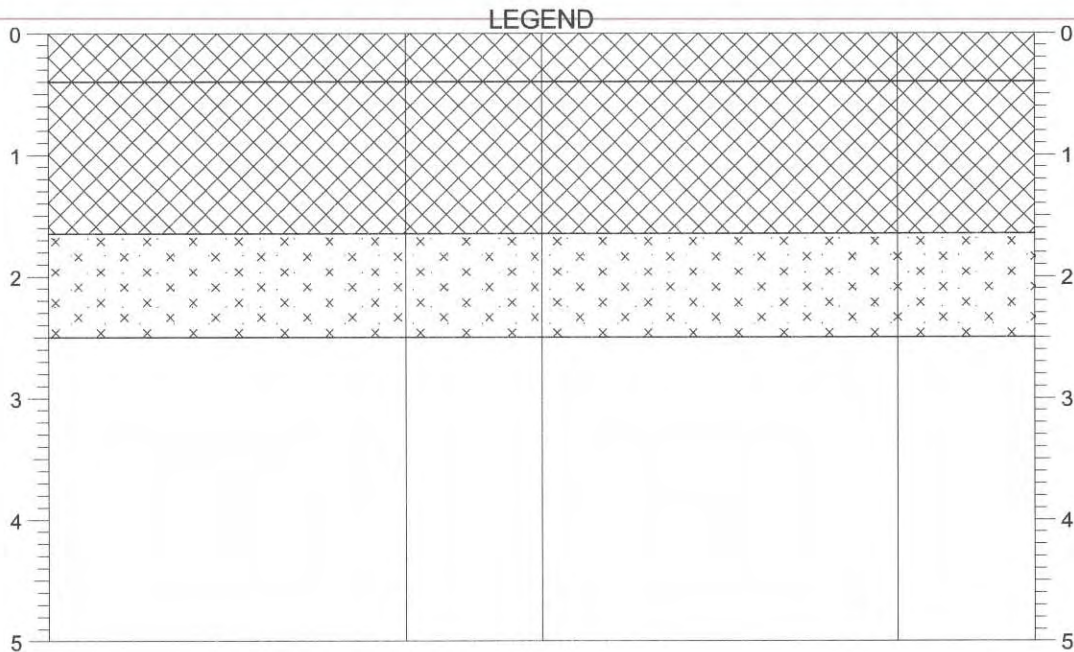
No Coordinate Data Available
 No Datum Information Available

Plant Used:	Coordinates / Level (mAOD):	Logged By:	Checked By:	Approved By:
360 Excavator		WC/ST	KDM	

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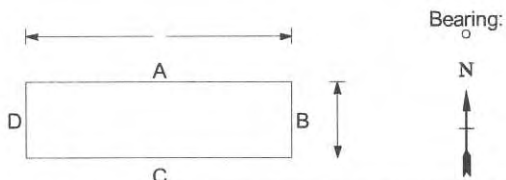


Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TR107a
	TRIAL PIT LOG	Date:		Client:	ABLE (UK)



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
0.40		Firm brown clay topsoil. Many thin rootlets. (POSSIBLE MADE GROUND).	0.10-0.30	ES		
(1.25)		Pale brown sl clayey sandy silt. Sand is fine. (POSSIBLE MADE GROUND).	0.60-0.80	ES		
1.65			1.00-1.30	B		
(0.85)		Dark greyish black thinly laminated slightly clayey sandy SILT. Sand is fine. [ALLUVIUM]	1.70-1.80	ES		
2.50		Trial pit completed at 2.50 m bgl.				

Shoring/Support:
 Stability:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 2.50 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
 unless otherwise stated

5m/page

Scale: 1:62.5

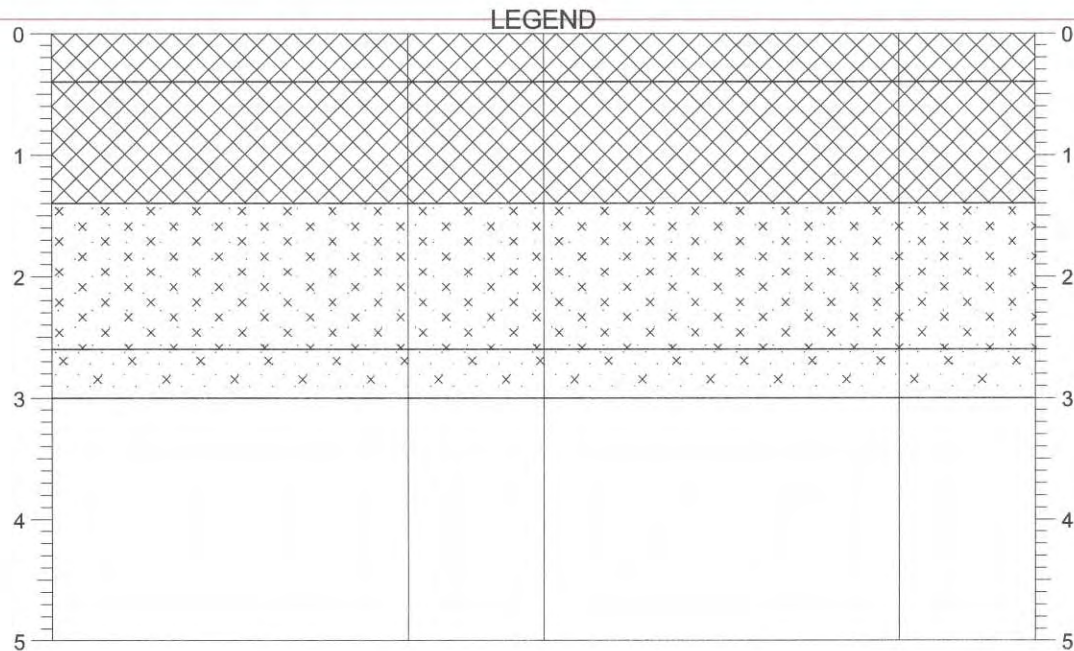
No Coordinate Data Available
 No Datum Information Available

Plant Used: 360 Excavator	Coordinates / Level (mAOD):	Logged By: WC/ST	Checked By: KDM	Approved By:
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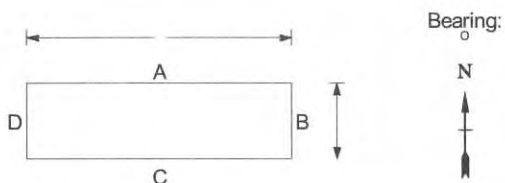


Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TR108
	TRIAL PIT LOG	Date:		Client:	ABLE (UK)



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
0.40		Firm brown clay topsoil. Many thin rootlets. (POSSIBLE MADE GROUND).	0.10-0.40	ES		
(1.00)		Pale brown slightly sandy clayey silt. Sand is fine. (POSSIBLE MADE GROUND). At 1.30 m bgl - possible field drain encountered.	1.00-1.40	B		
1.40			1.30-1.40	ES		
(1.20)		Dark greyish black possibly organic thinly laminated slightly sandy clayey SILT. Sand is fine. [ALLUVIUM]	2.30-2.40	ES		
2.60						
3.00		Pale greyish brown slightly clayey very silty fine SAND. [ALLUVIUM].				
		Trial pit completed at 3.00 m bgl.				

Shoring/Support:
 Stability:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 3.00 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
 unless otherwise stated

5m/page Scale: 1:62.5

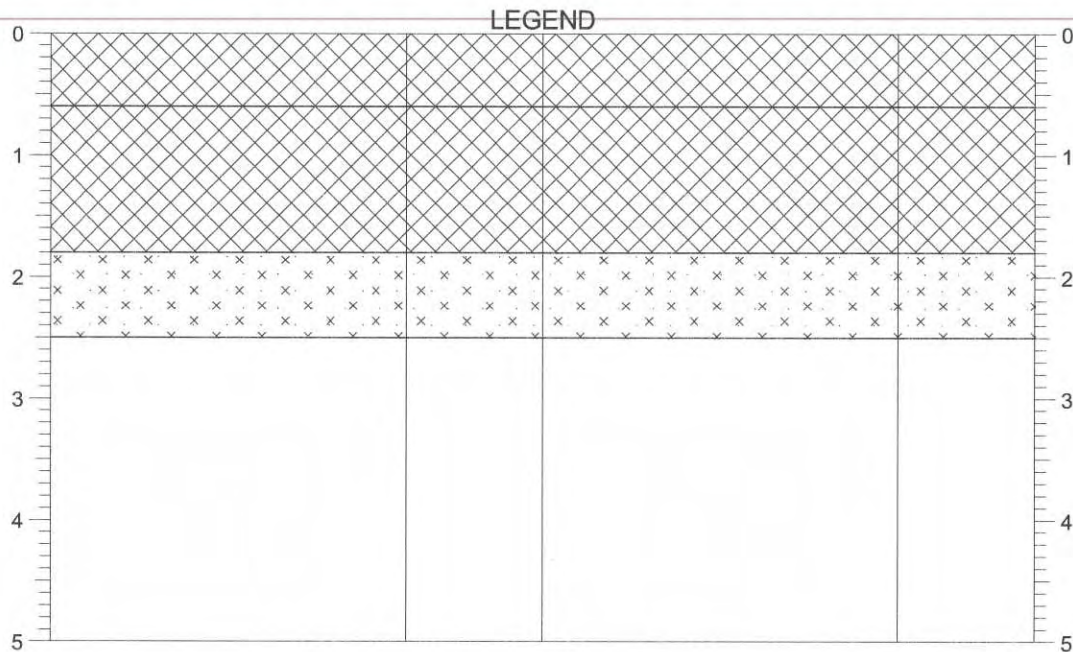
No Coordinate Data Available
 No Datum Information Available

Plant Used:	Coordinates / Level (mAOD):	Logged By:	Checked By:	Approved By:
360 Excavator		WC/ST	KDM	

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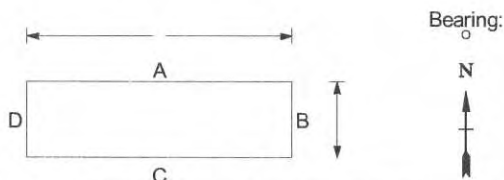


Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TR109
	TRIAL PIT LOG	Date:		Client:	ABLE (UK)



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
(0.60) 0.60		Firm brown clay topsoil. Many thin rootlets. (POSSIBLE MADE GROUND).	0.10-0.20	ES		
(1.20) 1.80		Firm pale brown slightly sandy silty clay. Sand is fine. (POSSIBLE MADE GROUND).	0.80-1.00 1.00-1.30	ES B		
(0.70) 2.50		Dark greyish black possibly organic thinly laminated slightly clayey slightly sandy SILT. Sand is fine. [ALLUVIUM]	2.00-2.40 2.00-2.40	B ES		
		Trial pit terminated due to instability at 2.50 m bgl.				

Shoring/Support:
 Stability:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 2.50 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
 unless otherwise stated

5m/page Scale: 1:62.5

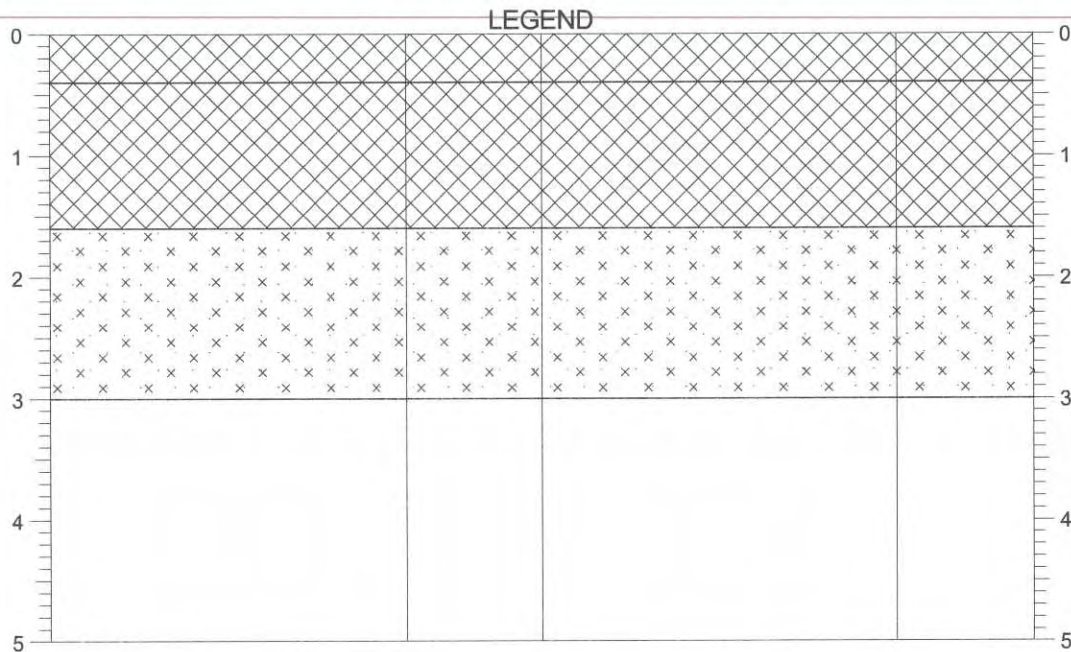
No Coordinate Data Available
 No Datum Information Available

Plant Used: 360 Excavator	Coordinates / Level (mAOD):	Logged By: WC/ST	Checked By: KDM	Approved By:
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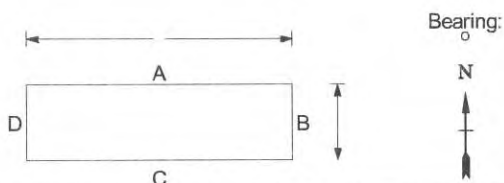


Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TR110
	TRIAL PIT LOG	Date:		Client:	ABLE (UK)



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
0.40		Firm brown clay topsoil. Many thin rootlets. (POSSIBLE MADE GROUND).	0.10-0.20	ES		
(1.20)		Soft pale brown very slightly slightly sandy clay. Sand is fine. (POSSIBLE MADE GROUND).	0.60-0.80	ES		
1.60			1.00-1.30	B		
(1.40)		Dark greyish black possibly organic thinly and thickly laminated slightly sandy SILT. Sand is fine. [ALLUVIUM]	1.60-1.80	B		
3.00			2.00-2.40	ES		
		Trial pit terminated due to instability at 3.00 m bgl.				

Shoring/Support:
 Stability:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 3.00 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
 unless otherwise stated

5m/page

Scale: 1:62.5

No Coordinate Data Available
 No Datum Information Available

Plant Used: 360 Excavator	Coordinates / Level (mAOD):	Logged By: WC/ST	Checked By: KDM	Approved By:
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Project:

Cherry Cobb Sands

Project No:

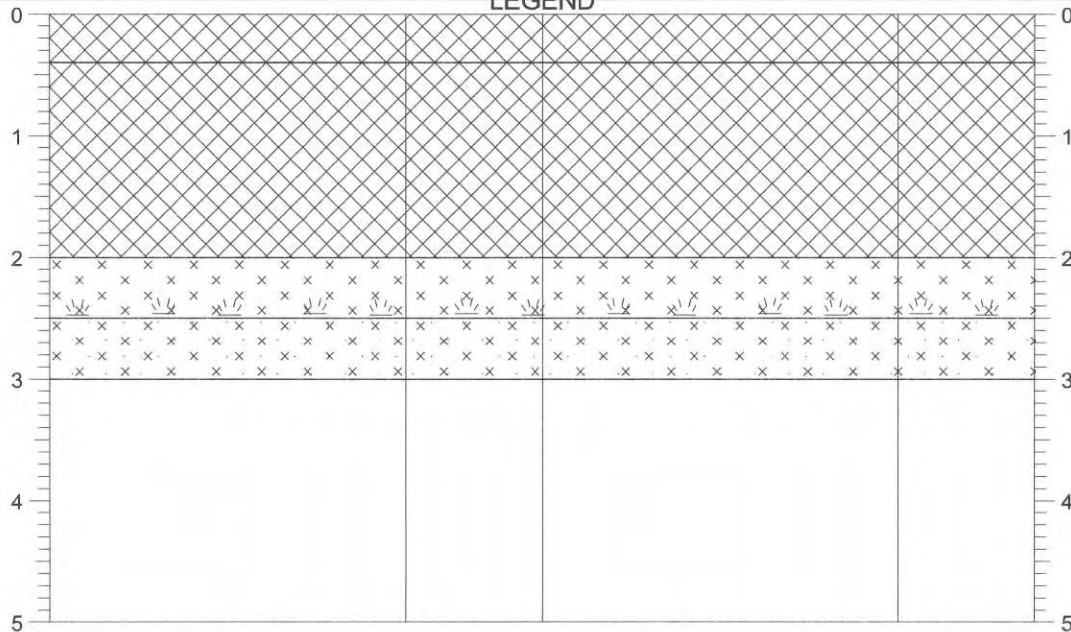
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Hole ID:

TR111**TRIAL PIT LOG**

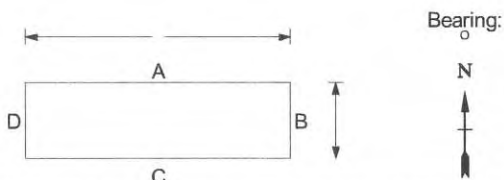
Date:

Client:

ABLE (UK)**LEGEND****STRATA****SAMPLES****TESTS**

Depth	No	DESCRIPTION	Depth	No	Depth	Results
0.40		Firm brown clay topsoil. Many thin rootlets. (POSSIBLE MADE GROUND).	0.10-0.20	B		
(1.60)		Pale brown slightly clayey very sandy silt. Sand is fine. (POSSIBLE MADE GROUND).	0.10-0.20	ES		
2.00			0.60-0.80	B		
(0.50)			0.60-0.80	ES		
2.50		Dark greyish black possibly organic thinly laminated slightly clayey sandy SILT. Sand is fine. [ALLUVIUM]				
(0.50)		Pale greyish brown slightly clayey sandy SILT. Sand is fine. [ALLUVIUM].	2.80-3.00	B		
3.00		Trial pit terminated due to instability at 3.00 m bgl.	2.80-3.00	ES		

Shoring/Support:
 Stability:

**REMARKS :**

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 3.00 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
 unless otherwise stated

5m/page

Scale: 1:62.5

No Coordinate Data Available
 No Datum Information Available

Plant Used:

360 Excavator

Coordinates / Level (mAOD):

Logged By:

WC/ST

Checked By:

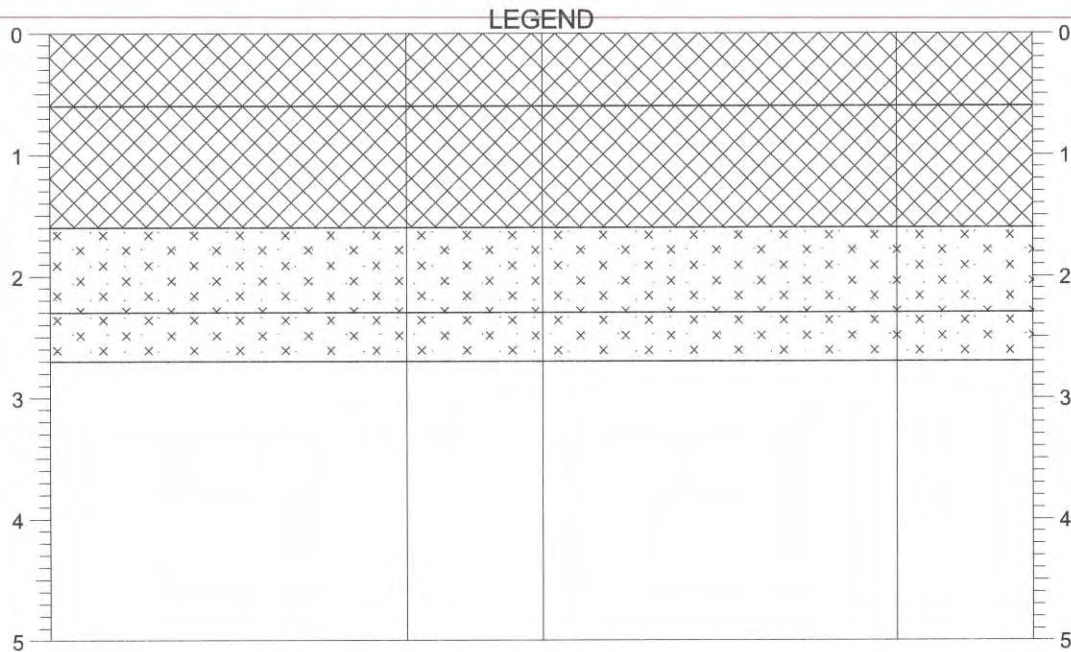
KDM

Approved By:

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 Fax: 01522 882 567
 Email: info@deltasimons.com

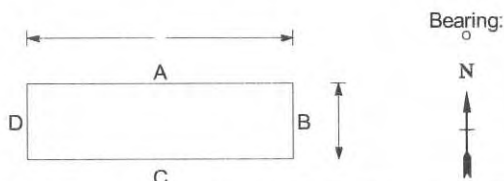


Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TR112
	TRIAL PIT LOG	Date:		Client:	ABLE (UK)



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
(0.60) 0.60		Firm brown clay topsoil. Many thin rootlets. (POSSIBLE MADE GROUND).	0.20-0.40	ES		
(1.00) 1.60		Pale brown very clayey very sandy silt. Sand is fine. (POSSIBLE MADE GROUND).	1.00-1.30 1.00-1.30	B ES		
(0.70) 2.30		Dark greyish black possibly organic thinly laminated slightly clayey sandy SILT. Sand is fine. [ALLUVIUM]	2.00-2.30	ES		
2.70		Pale greyish brown slightly clayey very sandy SILT. Sand is fine. [ALLUVIUM].				
		Trial pit terminated due to instability at 2.70 m bgl.				

Shoring/Support:
 Stability:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 2.70 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
 unless otherwise stated

5m/page Scale: 1:62.5

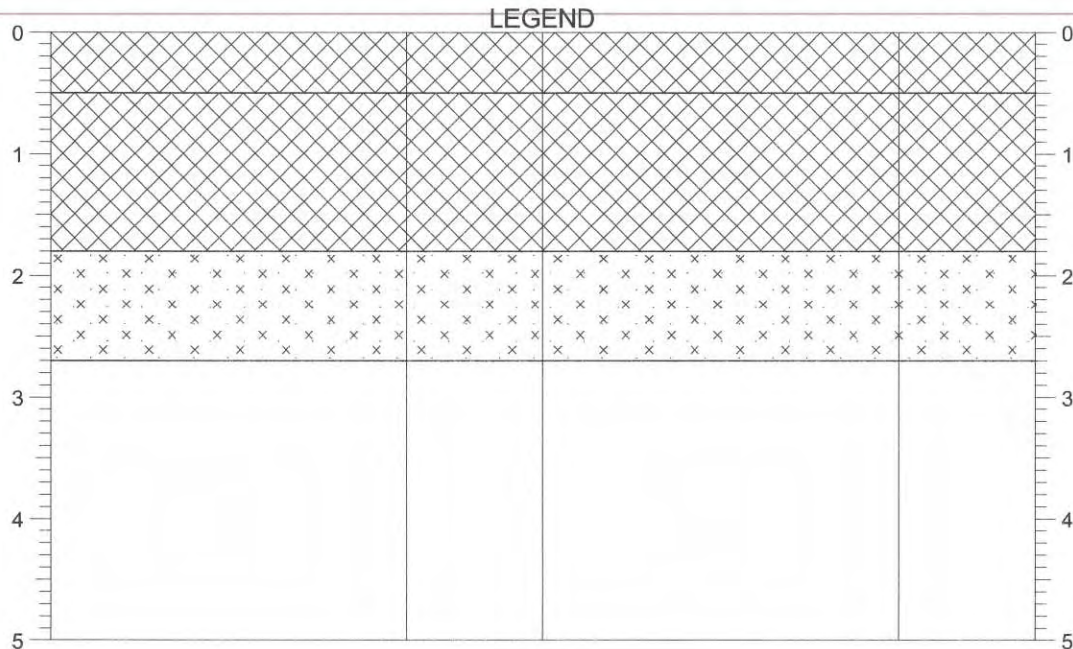
No Coordinate Data Available
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Plant Used: 360 Excavator	Coordinates / Level (mAOD):	Logged By: WC/ST	Checked By: KDM	Approved By:
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Delta-Simons Environmental Consultants Ltd
 The Lawn, Union Road,
 Lincoln LN1 3BL
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 Fax: 01522 882 567
 Email: info@deltasimons.com

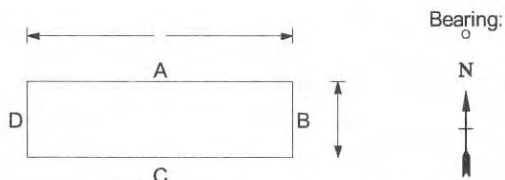


Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TR113
	TRIAL PIT LOG	Date:		Client:	ABLE (UK)



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
(0.50) 0.50		Firm brown clay topsoil. Many thin rootlets. (POSSIBLE MADE GROUND).	0.10-0.30	ES		
(1.30) 1.80		Firm pale brown slightly sandy silty clay. Sand is fine. (POSSIBLE MADE GROUND).	0.70-0.90 0.70-0.90	B ES		
(0.90) 2.70		Dark greyish black possibly organic thinly laminated slightly clayey slightly sandy SILT. Sand is fine. [ALLUVIUM]	2.30-2.50 2.30-2.50	B ES		
		Trial pit terminated due to instability at 2.70 m bgl.				

Shoring/Support:
Stability:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 3.00 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
unless otherwise stated

5m/page

Scale: 1:62.5

No Coordinate Data Available
No Datum Information Available

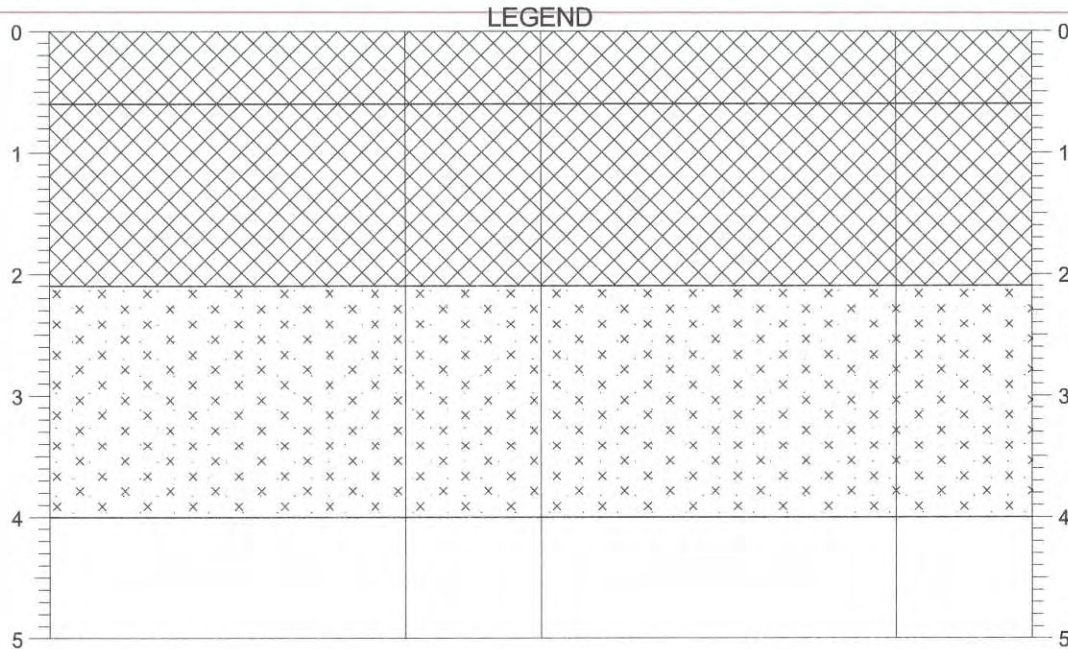
Plant Used: 360 Excavator	Coordinates / Level (mAOD):	Logged By: WC/ST	Checked By: KDM	Approved By:
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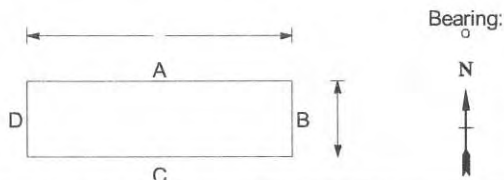
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Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TR114
	TRIAL PIT LOG	Date:	11/05/2012	Client:	ABLE (UK)



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
(0.60)		Brown slightly sandy clay with rootlets. (POSSIBLE MADE GROUND).	0.10-0.30	ES		
0.60						
(1.50)		Light brown mottled orange silty very sandy clay. (POSSIBLE MADE GROUND).	1.00-1.50	B		
			1.00-1.50	ES		
2.10						
(1.90)		Dark brown possibly slightly organic thinly laminated fine SAND (ALLUVIUM).	2.10-2.30	B		
			2.10-2.30	ES		
4.00						
		Trial Pit completed at 4.00 m bgl.				

Shoring/Support:
 Stability:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 4.00 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
 unless otherwise stated

5m/page

Scale: 1:62.5

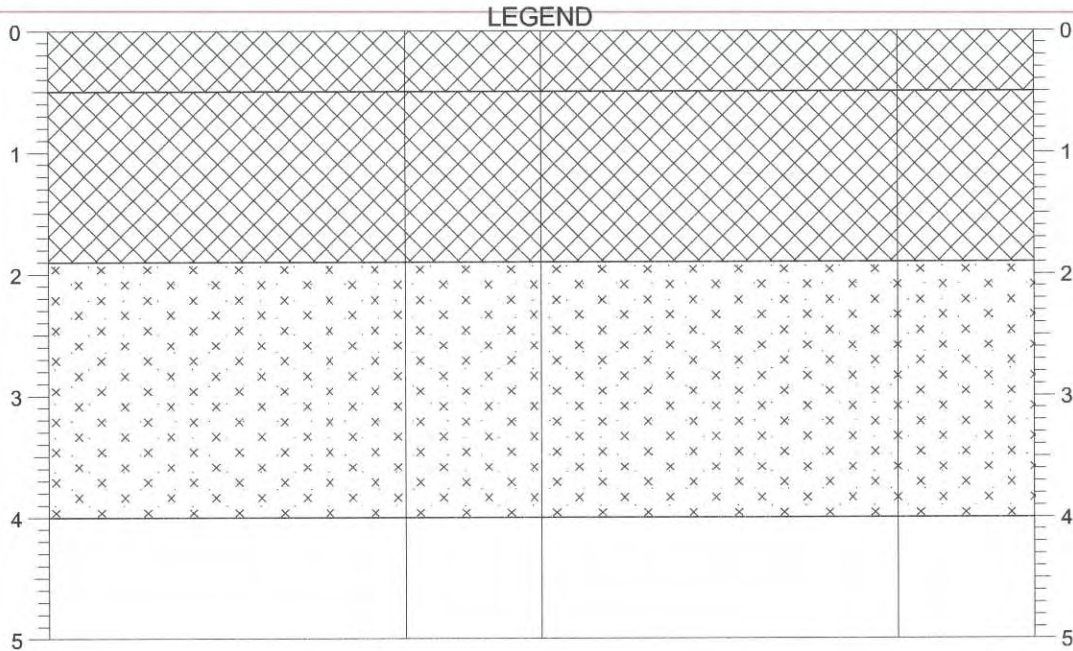
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Plant Used:	360 Excavator	Coordinates / Level (mAOD):	Logged By:	Checked By:	Approved By:
			WC/ST	KDM	

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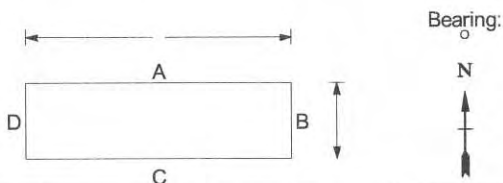


Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TR115
	TRIAL PIT LOG	Date:	11/05/2012	Client:	ABLE (UK)



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
(0.50)	0.50	Brown slightly sandy clay with rootlets. (POSSIBLE MADE GROUND).	0.10-0.30	ES		
(1.40)	1.90	Light brown mottled orange silty very sandy clay. (POSSIBLE MADE GROUND).	1.00-1.50	B		
			1.00-1.50	ES		
(2.10)	4.00	Dark brown possibly slightly organic thinly laminated fine SAND (ALLUVIUM).	2.00-2.30	B		
			2.00-2.30	ES		
		Trial Pit completed at 4.00 m bgl.				

Shoring/Support:
 Stability:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 4.00 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
 unless otherwise stated

5m/page

Scale: 1:62.5

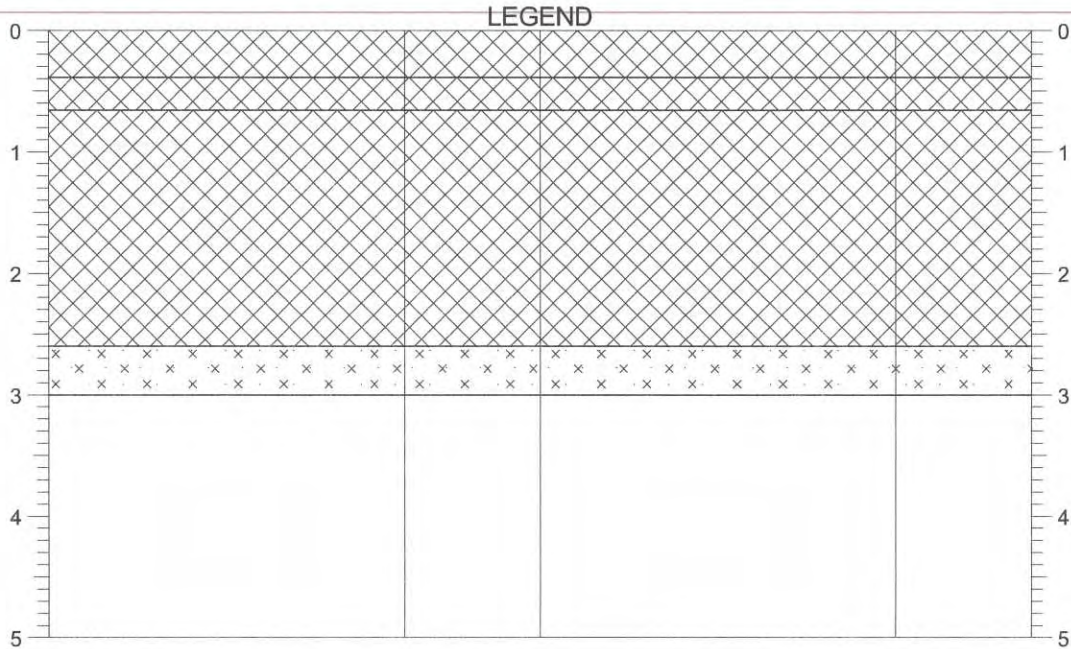
No Coordinate Data Available
 No Datum Information Available

Plant Used: 360 Excavator	Coordinates / Level (mAOD):	Logged By: WC/ST	Checked By: KDM	Approved By:
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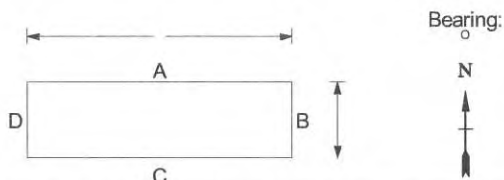


Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TR116
	TRIAL PIT LOG	Date:	11/05/2012	Client:	ABLE (UK)



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
0.39		MADE GROUND comprising brown slightly sandy clay with rootlets.	0.10-0.30	ES		
0.66		MADE GROUND comprising light brown mottled grey silty very sandy clay.				
(1.94)		MADE GROUND comprising of pharmaceutical waste, possible asbestos, possible allum 1971 document found.	2.00-2.60	B		
2.60			2.00-2.60	ES		
3.00		Dark brown possibly slightly organic thinly laminated fine SAND (ALLUVIUM).	2.60-3.00	B		
		Trial Pit completed at 3.00 m bgl.	2.60-3.00	ES		

Shoring/Support:
 Stability:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 3.00 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
 unless otherwise stated

5m/page Scale: 1:62.5

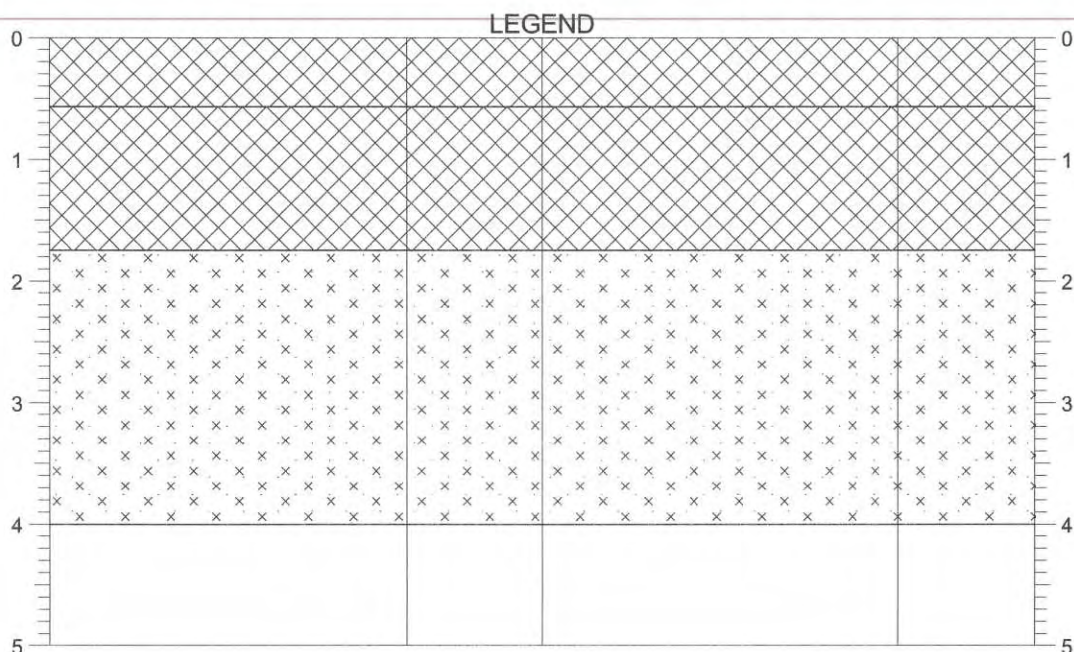
No Coordinate Data Available
 No Datum Information Available

Plant Used:	360 Excavator	Coordinates / Level (mAOD):	Logged By:	Checked By:	Approved By:
			WC/ST	KDM	

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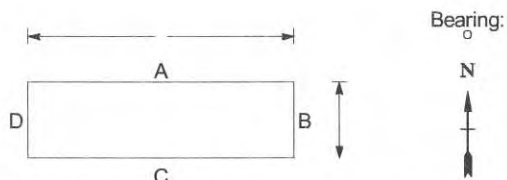


Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TR117
	TRIAL PIT LOG	Date:	11/05/2012	Client:	ABLE (UK)



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
(0.57)	0.57	Brown slightly sandy clay with rootlets. (POSSIBLE MADE GROUND).	0.10-0.30	B		
			0.10-0.30	ES		
(1.18)	1.75	Light brown mottled orange silty very sandy clay. (POSSIBLE MADE GROUND).	1.00-1.50	B		
			1.00-1.50	ES		
(2.25)	4.00	Dark brown possibly slightly organic thinly laminated fine SAND (ALLUVIUM).	2.00-2.30	ES		
		Trial Pit completed at 4.00 m bgl.				

Shoring/Support:
Stability:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 4.00 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
unless otherwise stated

5m/page

Scale: 1:62.5

No Coordinate Data Available
No Datum Information Available

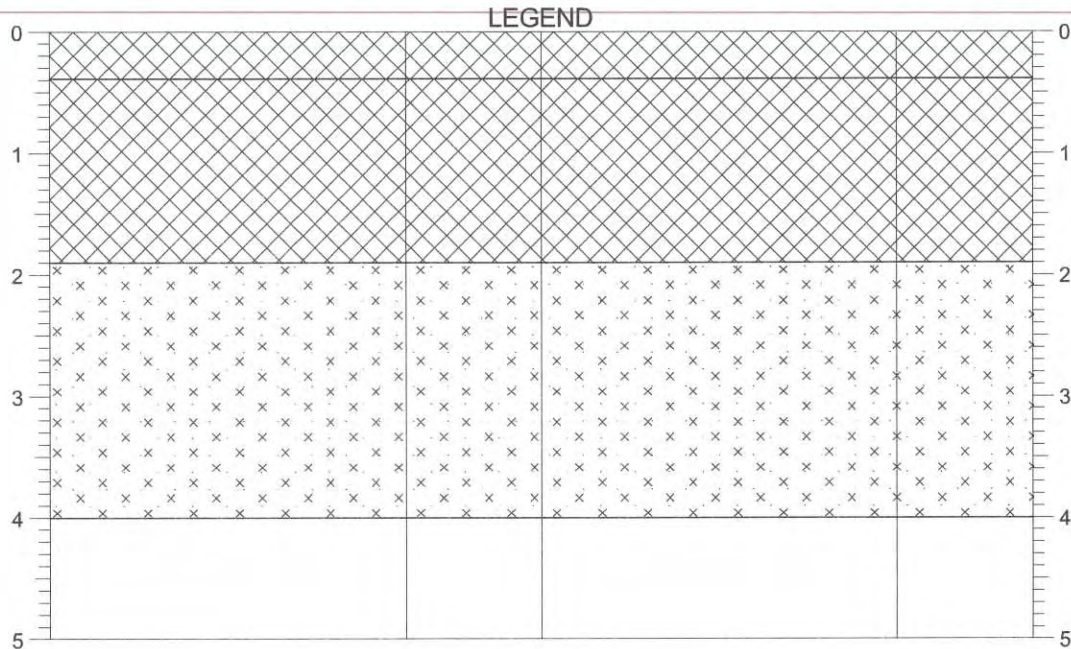
Plant Used: 360 Excavator	Coordinates / Level (mAOD):	Logged By: WC/ST	Checked By: KDM	Approved By:
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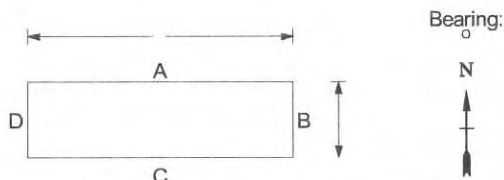
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Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TR118
	TRIAL PIT LOG	Date:	11/05/2012	Client:	ABLE (UK)



STRATA				SAMPLES		TESTS	
Depth	No	DESCRIPTION		Depth	No	Depth	Results
0.39		Brown slightly sandy clay with rootlets. (POSSIBLE MADE GROUND).					
(1.51)		Light brown mottled orange silty very sandy clay. (POSSIBLE MADE GROUND).					
1.90							
(2.10)		Dark brown possibly slightly organic thinly laminated fine SAND (ALLUVIUM).					
4.00							
		Trial Pit completed at 4.00 m bgl.					

Shoring/Support:
 Stability:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 4.00 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
 unless otherwise stated

5m/page

Scale: 1:62.5

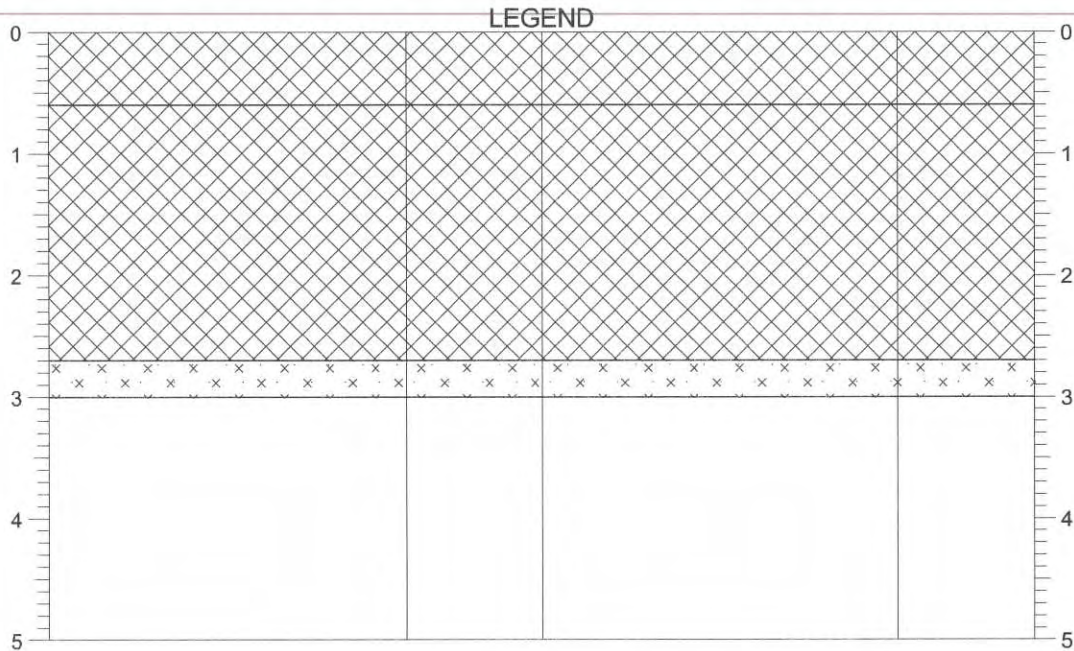
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Plant Used:	360 Excavator	Coordinates / Level (mAOD):	Logged By:	Checked By:	Approved By:
			WC/ST	KDM	

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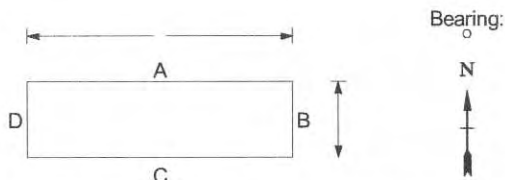


Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TR119
	TRIAL PIT LOG	Date:	15/05/2012	Client:	ABLE (UK)



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
(0.60)		MADE GROUND comprising brown slightly sandy clay with rootlets.				
0.60		MADE GROUND comprising of demolition waste, pharmaceutical waste, rubble, possible asbestos, rebar and wire. Oily latex smell.				
2.70						
3.00		Dark brown possibly slightly organic thinly laminated fine SAND (ALLUVIUM).				
		Trial Pit completed at 3.00 m bgl.				

Shoring/Support:
Stability:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 3.00 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
unless otherwise stated

5m/page

Scale: 1:62.5

No Coordinate Data Available
No Datum Information Available

Plant Used: 360 Excavator	Coordinates / Level (mAOD):	Logged By: WC/ST	Checked By: KDM	Approved By:
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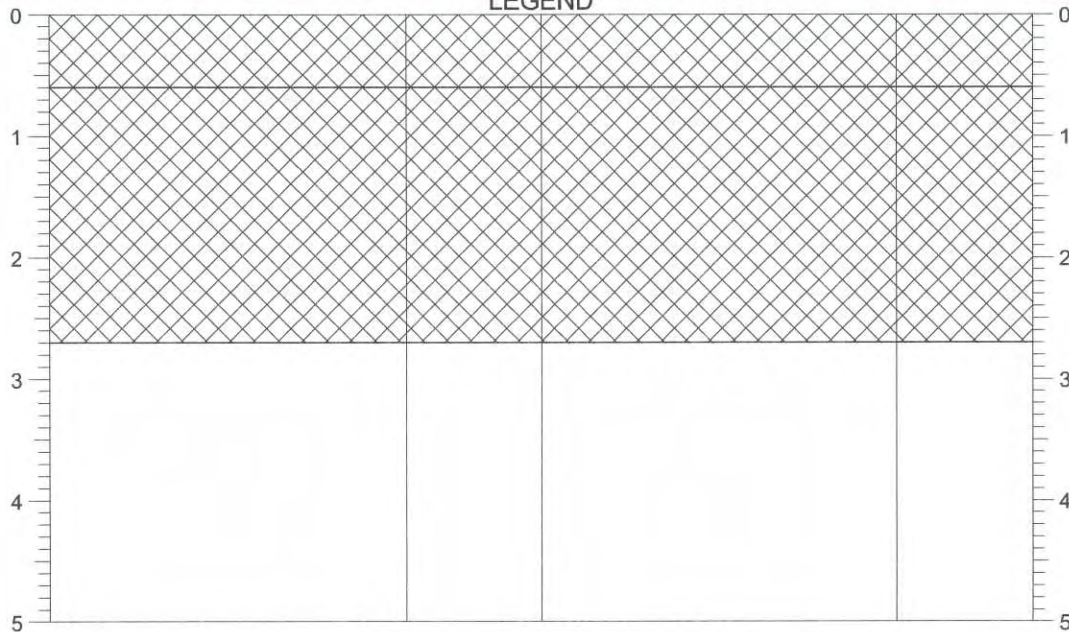
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 Tel: 08700 400 012
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 Email: info@deltasimons.com



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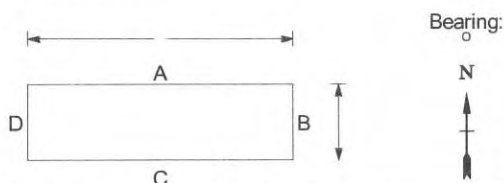
Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TR120
	TRIAL PIT LOG	Date:	15/05/2012	Client:	ABLE (UK)

LEGEND



STRATA			SAMPLES		TESTS		
Depth	No	DESCRIPTION	Depth	No	Depth	Results	
(0.60)		MADE GROUND comprising brown slightly sandy clay with rootlets.					
0.60							
(2.10)		MADE GROUND comprising of demolition waste, pharmaceutical waste, rubble, possible asbestos, rebar and wire. Oily latex smell. MADE GROUND proven to a lateral extent of 18.00 m.					
2.70							
		Trial Pit completed at 3.00 m bgl.					

Shoring/Support:
 Stability:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 3.00 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
 unless otherwise stated

5m/page

Scale: 1:62.5

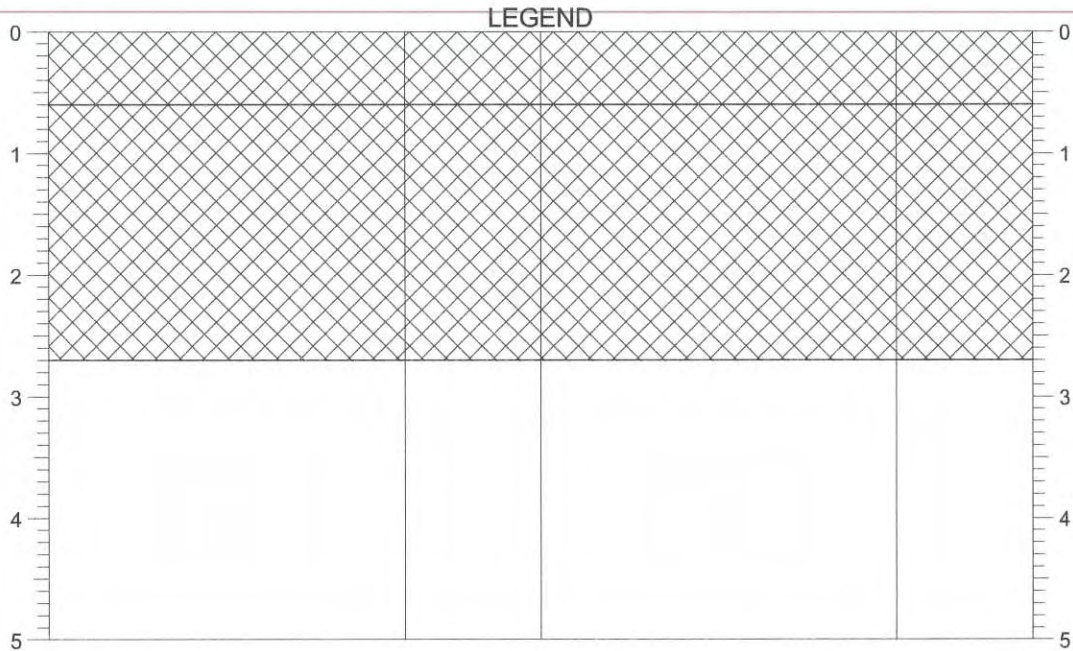
No Coordinate Data Available
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Plant Used:	360 Excavator	Coordinates / Level (mAOD):	Logged By:	Checked By:	Approved By:
			WC/ST	KDM	

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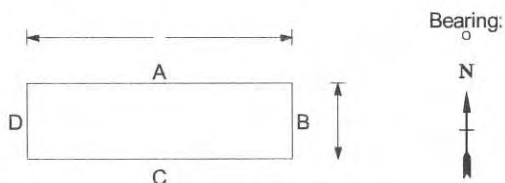


Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TR121
	TRIAL PIT LOG	Date:	15/05/2012	Client:	ABLE (UK)



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
(0.60) 0.60		MADE GROUND comprising brown slightly sandy clay with rootlets.				
(1.0) 2.70		MADE GROUND comprising of demolition waste, pharmaceutical waste, rubble, possible asbestos, rebar and wire. Oily latex smell. MADE GROUND proven to a lateral extent of 18.00 m.				
		Trial Pit completed at 3.00 m bgl.				

Shoring/Support:
Stability:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 3.00 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
unless otherwise stated

5m/page

Scale: 1:62.5

No Coordinate Data Available
No Datum Information Available

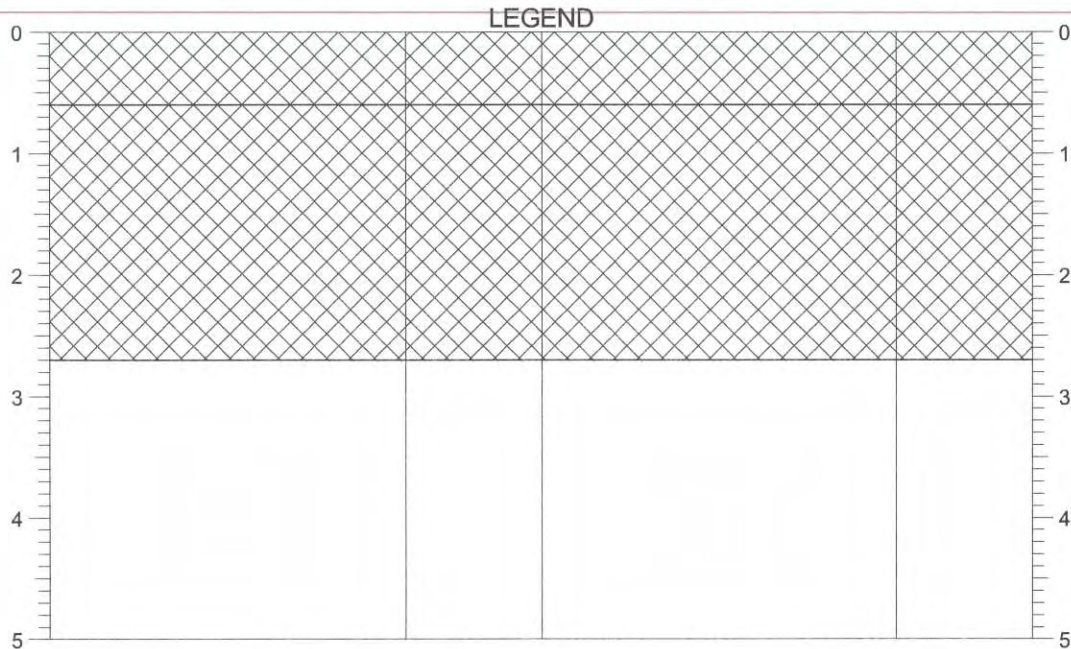
Plant Used: 360 Excavator	Coordinates / Level (mAOD):	Logged By: WC/ST	Checked By: KDM	Approved By:
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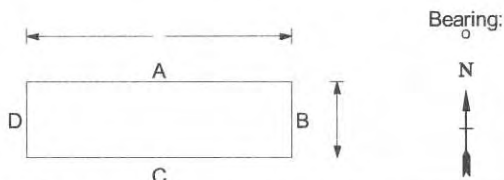
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Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TR122
	TRIAL PIT LOG	Date:	15/05/2012	Client:	ABLE (UK)



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
(0.60) 0.60		MADE GROUND comprising brown slightly sandy clay with rootlets.				
(2.10) 2.70		MADE GROUND comprising of demolition waste, pharmaceutical waste, rubble, possible asbestos, rebar and wire. Oily latex smell. MADE GROUND proven to a lateral extent of 17.00 m.				
		Trial Pit completed at 3.00 m bgl.				

Shoring/Support:
 Stability:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 3.00 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
 unless otherwise stated

5m/page

Scale: 1:62.5

No Coordinate Data Available
 No Datum Information Available

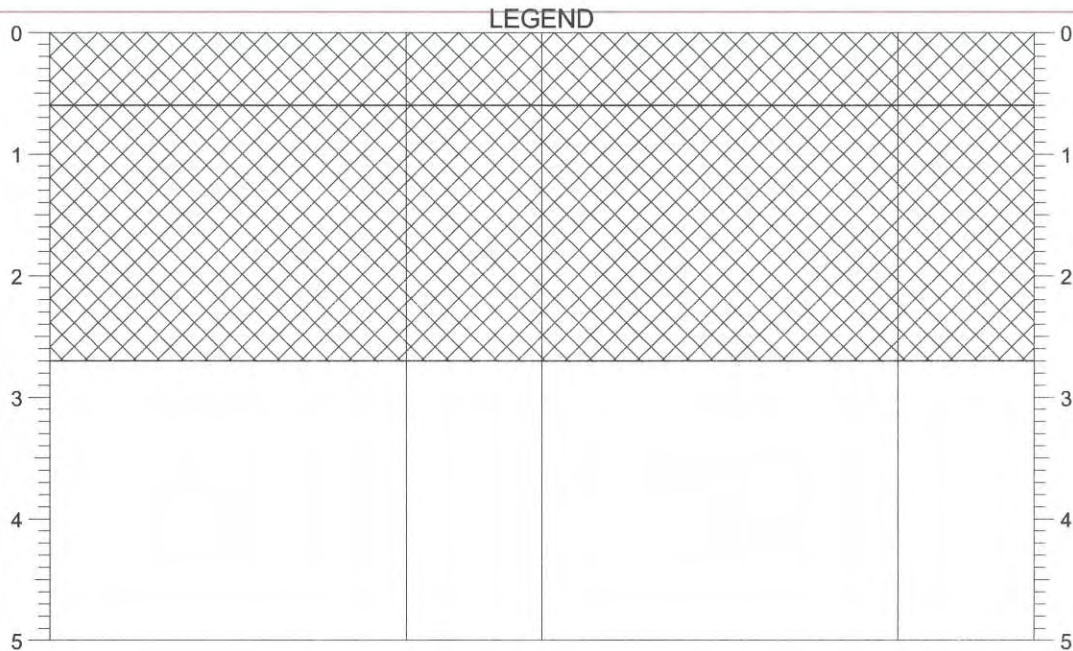
Plant Used: 360 Excavator	Coordinates / Level (mAOD):	Logged By: WC/ST	Checked By: KDM	Approved By:
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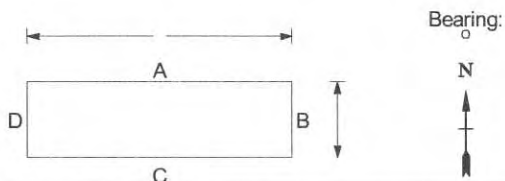
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Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TR123
	TRIAL PIT LOG	Date:	15/05/2012	Client:	ABLE (UK)



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
(0.60) 0.60		MADE GROUND comprising brown slightly sandy clay with rootlets.				
(2.10) 2.70		MADE GROUND comprising of demolition waste, pharmaceutical waste, rubble, possible asbestos, rebar and wire. Oily latex smell. MADE GROUND proven to a lateral extent of 18.00 m.				
		Trial Pit completed at 3.00 m bgl.				

Shoring/Support:
Stability:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 3.00 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
unless otherwise stated

5m/page

Scale: 1:62.5

No Coordinate Data Available
No Datum Information Available

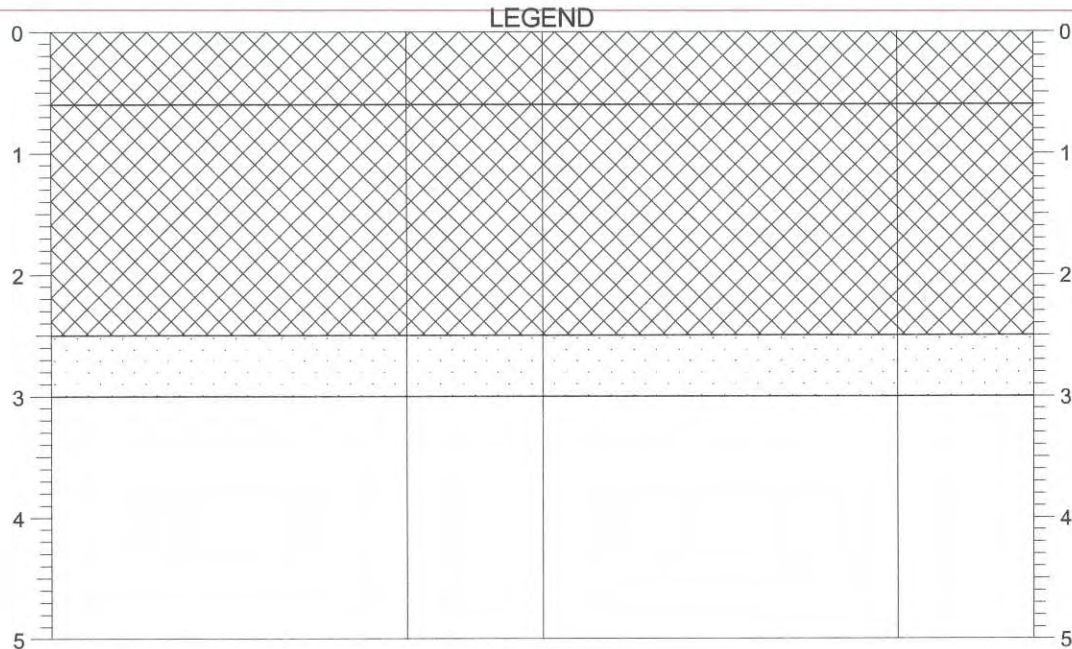
Plant Used: 360 Excavator	Coordinates / Level (mAOD):	Logged By: WC/ST	Checked By: KDM	Approved By:
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Email: info@deltasimons.com



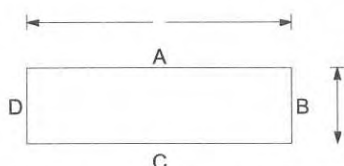
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Project:	Cherry Cobb Sands	Project No:	10-0241.02	Hole ID:	TR124
	TRIAL PIT LOG	Date:	15/05/2012	Client:	ABLE (UK)



STRATA			SAMPLES		TESTS	
Depth	No	DESCRIPTION	Depth	No	Depth	Results
(0.60) 0.60		Brown slightly sandy clay with rootlets. (POSSIBLE MADE GROUND).	0.00-0.60	B		
(1.90) 2.50		MADE GROUND comprising of rubble, possible furnace waste, possible asbestos, wire, pharmaceutical waste. Oily smell.				
(0.50) 3.00		Dark brown possibly slightly organic thinly laminated fine SAND (ALLUVIUM).				
		Trial Pit completed at 3.00 m bgl.				

Shoring/Support:
Stability:



Bearing:



REMARKS :

1. Engineer verified logged in general accordance to BS 5930.
2. Area CAT scanned prior to excavation.
3. Trial pit to 3.00 m bgl.
4. Trial pit remained dry on completion.
5. Backfilled with arisings.

All measurements in metres
unless otherwise stated

5m/page

Scale: 1:62.5

No Coordinate Data Available
No Datum Information Available

Plant Used: 360 Excavator	Coordinates / Level (mAOD):	Logged By: WC/ST	Checked By: KDM	Approved By:
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Appendix III



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A different perspective

Exploratory Hole	Sample Depth (top)	Frost Susceptibility	Metals	Total Organic Carbon	Total Hydrocarbon Content	TBT	DDT, DDD, DDE	PAH (EPA16 & Total)	PCB 25	Asbestos	ICOL 1 (Lime)	ICOL 2 (OPC)	ICOL 3 (50pc Lime, 50pc OPC)	AL	PSD	MCV	CBR	M.O. Swelling	OMC (2.5kg)	Oed
BH01	0.30												X							
BH01	0.50													X	X	X	X	X		
BH01	1.50													X		X	X	X		
BH02	0.50													X		X	X	X	X	
BH02	1.50													X	X	X	X	X		
BH03	0.50													X		X	X	X		
BH03	1.50													X		X	X	X		
BH04	0.80													X	X	X	X	X		
BH04	1.50													X		X	X	X	X	
BH05	0.80													X	X	X	X	X		
BH05	1.50													X		X	X	X	X	
BH06	0.80													X	X	X	X	X		
BH06	1.50													X		X	X	X		
BH07	0.80													X	X	X	X	X		
BH07	1.50													X		X	X	X		
BH08	0.70													X	X	X	X	X		
BH08	1.50													X		X	X	X		
BH09	1.00										X			X		X	X	X	X	
BH09	0.50													X	X	X	X	X		
BH09	1.50													X		X	X	X		
BH10	0.50													X		X	X	X		
BH10	1.00																			X
BH10	1.40																			X
BH10	1.85													X	X	X	X	X	X	
BH11	0.50													X		X	X	X		
BH11	1.00																			X
BH11	1.40																			X
BH11	1.65													X	X	X	X	X		
BH12	0.50													X		X	X	X	X	

[illegible]

[illegible]

Exploratory Hole	Sample Depth (top)	Frost Susceptibility	Metals	Total Organic Carbon	Total Hydrocarbon Content	TBT	DDT, DDD, DDE	PAH (EPA16 & Total)	PCB 25	Asbestos	ICOL 1 (Lime)	ICOL 2 (OPC)	ICOL 3 (50pc Lime, 50pc OPC)	AL	PSD	MCV	CBR	M.O. Swelling	OMC (2.5kg)	Oed
TP15	0.10											X								
TP15	0.90												X							
TP16	1.00	X																X		
TP17	0.10		X	X	X	X	X	X	X											
TP17	0.90		X	X	X	X	X	X	X											
TP17	0.10										X									
TP17	0.90											X								
TP17	1.00	X																X		
TP19	0.10		X	X	X	X	X	X	X											
TP19	1.20		X	X	X	X	X	X	X											
TP19	0.10												X							
TP19	1.20										X									
TP19	1.00	X																X		
TP20	1.00																			
TP21	0.10		X	X	X	X	X	X	X											
TP21	0.90		X	X	X			X	X											
TP21	0.10											X								
TP21	0.90												X							
TP22	1.00	X																X		
TP23	0.90		X	X	X			X	X											
TP23	0.10		X	X	X	X	X	X	X											
TP23	0.90										X									
TP23	0.10											X								
TP23	1.00	X																		
TP26	1.10	X																X		
TP27	0.10		X	X	X	X	X	X	X	X										
TP27	1.10		X	X	X	X	X	X	X	X										
TP27	0.10										X									
TP27	1.10												X							

Exploratory Hole	Sample Depth (top)	Frost Susceptibility	Metals	Total Organic Carbon	Total Hydrocarbon Content	TBT	DDT, DDD, DDE	PAH (EPA16 & Total)	PCB 25	Asbestos	ICOL 1 (Lime)	ICOL 2 (OPC)	ICOL 3 (50pc Lime, 50pc OPC)	AL	PSD	MCV	CBR	M.O. Swelling	OMC (2.5kg)	Oed
TP27	1.10	X																X	X	
TP28	1.00	X																X	X	
TP28 (BO30)	2.00													X		X	X	X	X	
TP29	1.10	X																X	X	
TP30	0.10		X	X	X	X	X	X	X											
TP30	1.10		X	X	X	X	X	X	X											
TP30	0.10											X								
TP30	1.10												X							
TP30	1.00	X																X	X	
TP31 (BO35)	1.00	X																X	X	
TP32 (BO37)	1.00	X																X	X	
TP33	0.10		X	X	X			X	X	X										
TP33	1.10		X	X	X			X	X											
TP33	0.10										X									
TP33	1.10											X								
TP33	1.80																			
TP33 (BO39)	1.00	X												X	X	X	X	X	X	
TR101	0.80		X	X	X			X	X	X										
TR101	0.80										X									
TR101	0.10		X	X	X	X	X	X	X	X										
TR101	0.10												X							
TR102	1.50												X							
TR102	1.50													X	X	X	X	X	X	
TR104	0.00		X	X	X			X	X											
TR104	1.10		X	X	X			X	X											
TR104	0.00											X								
TR104	1.10												X							
TR104	1.00												X							
TR104	1.00												X							
TR104	1.00													X		X	X	X	X	

[illegible]

[illegible]

Appendix IV



delta-simons
environmental consultants

A different perspective



ANALYTICAL TEST REPORT

Contract no: 45118
Contract name: Cherry Cobb Sands
Client reference: -
Clients name: Delta Simons
Clients address: The Lawn
Union Road
Lincoln
LN1 3BL

Samples received: 16 May 2012

Analysis started: 16 May 2012

Analysis completed: 23 May 2012

Report issued: 24 May 2012

Notes: Opinions and interpretations expressed herein are outside the UKAS accreditation scope.
Unless otherwise stated, Chemtech Environmental Ltd was not responsible for sampling.
Methods, procedures and performance data are available on request.
Results reported herein relate only to the material supplied to the laboratory.
This report shall not be reproduced except in full, without prior written approval.
Samples will be disposed of 6 weeks from initial receipt unless otherwise instructed.

Key: U UKAS accredited test
M MCERTS & UKAS accredited test
\$ Test carried out by an approved subcontractor
I/S Insufficient sample to carry out test
N/S Sample not suitable for testing

Approved by:



Karan Campbell
Director

John Campbell
Director

SAMPLE INFORMATION

MCERTS (Soils):

Soil descriptions are only intended to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions. MCERTS accreditation applies for sand, clay and loam/topsoil, or combinations of these whether these are derived from naturally occurring soils or from made ground, as long as these materials constitute the major part of the sample. Other materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

All results are reported on a dry basis. Samples dried at no more than 30°C in a drying cabinet.
Analytical results are exclusive of stones.

Lab ref	Sample id	Depth (m)	Soil description passing 2mm sieve	Description of material retained on 2mm sieve	% Retained on 2mm sieve	Moisture (%)
45118-1	BH 1	0.30	Silty Clay	N/A	<1	18.0
45118-2	BH 1	1.00	Silty Clay	N/A	<1	22.2
45118-3	BH 2	0.30	Silty Clay	N/A	<1	18.8
45118-4	BH 2	1.00	Silty Clay	N/A	<1	22.9
45118-5	BH 3	1.00	Silty Clay	N/A	<1	23.2
45118-6	BH 3	2.00	Silty Clay	N/A	<1	24.8
45118-7	BH 4	0.60	Silty Clay	N/A	<1	17.9
45118-8	BH 4	1.00	Silty Clay	N/A	<1	20.1
45118-9	BH 4	2.00	Silty Clay	N/A	<1	22.5
45118-10	BH 5	1.00	Silty Clay	N/A	<1	21.4
45118-11	BH 5	2.00	Silty Clay	N/A	<1	24.0
45118-12	BH 6	2.00	Silty Clay	N/A	<1	22.8
45118-13	BH 7	1.00	Silty Clay	N/A	<1	21.5
45118-14	BH 8	1.00	Silty Clay	N/A	<1	23.2
45118-15	BH 8	2.00	Silty Clay	N/A	<1	23.5
45118-16	BH 9	1.00	Silty Clay	N/A	<1	21.7
45118-17	BH 10	2.00	Silty Clay	N/A	<1	22.6
45118-18	BH 11	1.00	Silty Clay	N/A	<1	24.0
45118-19	BH 11	1.45	Silty Clay	N/A	<1	21.3
45118-20	BH 11	2.00	Silty Clay	N/A	<1	25.4
45118-21	BH 12	1.45	Silty Clay	N/A	<1	22.4
45118-22	BH 13	1.00	Silty Clay	N/A	<1	24.4
45118-23	BH 14	0.30	Silty Clay	N/A	<1	21.7
45118-24	BH 14	1.45	Silty Clay	N/A	<1	26.6
45118-25	BH 15	1.00	Silty Clay	N/A	<1	23.2
45118-26	BH 16	1.00	Silty Clay	N/A	<1	26.1
45118-27	BH 17	0.30	Silty Clay	N/A	<1	21.8
45118-28	BH 18	0.35	Silty Clay	N/A	<1	20.5
45118-29	TP 1	0.90	Silty Clay	N/A	<1	23.5
45118-30	TP 4	0.30	Silty Clay	N/A	<1	21.9
45118-31	TP 8	0.60	Silty Clay	N/A	<1	15.1

Chemtech Environmental Limited

SAMPLE INFORMATION

MCERTS (Soils):

Soil descriptions are only intended to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions. MCERTS accreditation applies for sand, clay and loam/topsoil, or combinations of these whether these are derived from naturally occurring soils or from made ground, as long as these materials constitute the major part of the sample. Other materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

All results are reported on a dry basis. Samples dried at no more than 30°C in a drying cabinet.
Analytical results are exclusive of stones.

Lab ref	Sample id	Depth (m)	Soil description passing 2mm sieve	Description of material retained on 2mm sieve	% Retained on 2mm sieve	Moisture (%)
45118-32	TP 13	0.10	Silty Clay	N/A	<1	22.5
45118-33	TP 15	0.90	Silty Clay	N/A	<1	26.2
45118-34	TP 20	0.70	Silty Clay	N/A	<1	25.8
45118-35	TP 30	1.10	Silty Clay	N/A	<1	24.8
45118-36	TR 102	1.50-1.80	Silty Clay	N/A	<1	26.0
45118-37	TR 104	1.00-1.40	Silty Clay	N/A	<1	22.2
45118-38	TR 104	1.10	Silty Clay	N/A	<1	22.8
45118-39	TR 105	0.80-1.00	Silty Clay	N/A	<1	22.6
45118-40	TR 106	1.10-1.30	Silty Clay	N/A	<1	22.7
45118-41	TR 107	1.00-1.30	Silty Clay	N/A	<1	21.4
45118-42	TR 108	1.00-1.40	Silty Clay	N/A	<1	22.1
45118-43	TR 111	0.10-0.20	Silty Clay	N/A	<1	20.8
45118-44	TR 111	0.60-0.80	Silty Clay	N/A	<1	22.5
45118-45	TR 113	0.10-0.30	Silty Clay	N/A	<1	23.1
45118-46	TR 113	0.70-0.90	Silty Clay	N/A	<1	26.4
45118-47	TR 113	1.00	Silty Clay	N/A	<1	24.6
45118-48	TR 115	1.00	Silty Clay	N/A	<1	23.7
45118-49	TR 117	1.00	Silty Clay	N/A	<1	23.2
45118-50	TR 118	1.00	Silty Clay	N/A	<1	23.5

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SOILS

Lab number			45118-1	45118-2	45118-3	45118-4	45118-5	45118-6
Sample id			BH 1	BH 1	BH 2	BH 2	BH 3	BH 3
Depth (m)			0.30	1.00	0.30	1.00	1.00	2.00
Test	Method	Units						
pH	CE004 ^M	units	8.5	8.3	8.4	8.6	8.5	8.0
Sulphate (2:1 water soluble)	CE061	mg/l SO ₄	20	160	26	77	60	200
Sulphate (total)	CE062	mg/kg SO ₄	498	848	439	869	339	1142
Sulphur (total)	CE054	mg/kg S	192	334	170	334	240	441
Organic matter content	CE005 ^M	% w/w	4.43	2.43	3.26	2.45	1.92	2.52

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SOILS

Lab number			45118-7	45118-8	45118-9	45118-10	45118-11	45118-12
Sample id			BH 4	BH 4	BH 4	BH 5	BH 5	BH 6
Depth (m)			0.60	1.00	2.00	1.00	2.00	2.00
Test	Method	Units						
pH	CE004 ^M	units	8.5	8.4	8.1	8.3	8.3	8.6
Sulphate (2:1 water soluble)	CE061	mg/l SO ₄	48	105	210	50	281	46
Sulphate (total)	CE062	mg/kg SO ₄	531	905	1468	528	2164	782
Sulphur (total)	CE054	mg/kg S	223	367	613	241	808	325
Organic matter content	CE005 ^M	% w/w	3.49	1.83	2.39	0.91	2.29	2.14

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SOILS

Lab number			45118-13	45118-14	45118-15	45118-16	45118-17	45118-18
Sample id			BH 7	BH 8	BH 8	BH 9	BH 10	BH 11
Depth (m)			1.00	1.00	2.00	1.00	2.00	1.00
Test	Method	Units						
pH	CE004 ^M	units	8.2	8.5	8.2	8.5	8.2	8.4
Sulphate (2:1 water soluble)	CE061	mg/l SO ₄	165	93	178	108	312	81
Sulphate (total)	CE062	mg/kg SO ₄	1067	862	1542	400	1641	441
Sulphur (total)	CE054	mg/kg S	468	345	664	155	662	240
Organic matter content	CE005 ^M	% w/w	2.22	2.59	2.36	1.62	2.35	2.74

Chemtech Environmental Limited

SOILS

Lab number			45118-19	45118-20	45118-21	45118-22	45118-23	45118-24
Sample id			BH 11	BH 11	BH 12	BH 13	BH 14	BH 14
Depth (m)			1.45	2.00	1.45	1.00	0.30	1.45
Test	Method	Units						
pH	CE004 ^M	units	9.0	8.3	8.4	8.4	8.1	8.6
Sulphate (2:1 water soluble)	CE061	mg/l SO ₄	27	308	123	292	16	146
Sulphate (total)	CE062	mg/kg SO ₄	206	1812	776	2021	525	491
Sulphur (total)	CE054	mg/kg S	<100	723	280	851	189	398
Organic matter content	CE005 ^M	% w/w	1.46	2.13	2.72	1.32	4.43	3.48

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SOILS

Lab number			45118-25	45118-26	45118-27	45118-28	45118-29	45118-30
Sample id			BH 15	BH 16	BH 17	BH 18	TP 1	TP 4
Depth (m)			1.00	1.00	0.30	0.35	1.09	0.30
Test	Method	Units						
pH	CE004 ^M	units	8.6	8.6	8.2	8.2	8.1	8.3
Sulphate (2:1 water soluble)	CE061	mg/l SO ₄	82	150	26	19	236	30
Sulphate (total)	CE062	mg/kg SO ₄	354	717	513	431	998	772
Sulphur (total)	CE054	mg/kg S	274	303	202	164	339	333
Organic matter content	CE005 ^M	% w/w	1.18	2.79	4.21	4.32	1.88	3.21

Chemtech Environmental Limited

SOILS

Lab number			45118-31	45118-32	45118-33	45118-34	45118-35	45118-36
Sample id			TP 8	TP 13	TP 15	TP 20	TP 30	TR 102
Depth (m)			0.60	0.10	0.90	0.70	1.10	1.50-1.80
Test	Method	Units						
pH	CE004 ^M	units	8.5	8.4	8.4	8.1	8.3	8.4
Sulphate (2:1 water soluble)	CE061	mg/l SO ₄	57	17	65	216	38	58
Sulphate (total)	CE062	mg/kg SO ₄	528	388	705	1034	369	389
Sulphur (total)	CE054	mg/kg S	204	497	281	436	149	156
Organic matter content	CE005 ^M	% w/w	1.40	3.78	3.41	2.81	1.66	2.58

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SOILS

Lab number			45118-37	45118-38	45118-39	45118-40	45118-41	45118-42
Sample id			TR 104	TR 104	TR 105	TR 106	TR 107	TR 108
Depth (m)			1.00-1.40	1.10	0.80-1.00	1.10-1.30	1.00-1.30	1.00-1.40
Test	Method	Units						
pH	CE004 ^M	units	8.8	8.5	8.3	8.1	8.4	8.3
Sulphate (2:1 water soluble)	CE061	mg/l SO ₄	124	92	80	22	73	48
Sulphate (total)	CE062	mg/kg SO ₄	767	666	498	621	567	454
Sulphur (total)	CE054	mg/kg S	270	258	222	250	223	207
Organic matter content	CE005 ^M	% w/w	2.05	1.27	1.22	2.57	1.73	2.02

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SOILS

Lab number			45118-43	45118-44	45118-45	45118-46	45118-47	45118-48
Sample id			TR 111	TR 111	TR 113	TR 113	TR 113	TR 115
Depth (m)			0.10-0.20	0.60-0.80	0.10-0.30	0.70-0.90	1.00	1.00
Test	Method	Units						
pH	CE004 ^M	units	8.3	8.4	7.9	8.1	8.1	8.0
Sulphate (2:1 water soluble)	CE061	mg/l SO ₄	21	57	160	15	153	72
Sulphate (total)	CE062	mg/kg SO ₄	333	730	1054	1168	1014	501
Sulphur (total)	CE054	mg/kg S	140	273	403	464	382	229
Organic matter content	CE005 ^M	% w/w	2.61	1.80	2.86	3.33	2.44	2.79

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SOILS

Lab number			45118-49	45118-50
Sample id			TR 117	TR 118
Depth (m)			1.00	1.00
Test	Method	Units		
pH	CE004 ^M	units	8.1	8.4
Sulphate (2:1 water soluble)	CE061	mg/l SO ₄	84	52
Sulphate (total)	CE062	mg/kg SO ₄	534	668
Sulphur (total)	CE054	mg/kg S	261	253
Organic matter content	CE005 ^M	% w/w	1.67	1.72

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METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
CE004	pH	Based on BS 1377, pH Meter	Wet	M	-	units
CE061	Sulphate (2:1 water soluble)	Aqueous extraction, ICP-OES	Dry		10	mg/l SO ₄
CE062	Sulphate (total)	Acid extraction, ICP-OES	Dry		100	mg/kg SO ₄
CE054	Sulphur (total)	Acid extraction, ICP-OES	Dry		100	mg/kg S
CE005	Organic matter content	Based on BS 1377, Colorimetry	Dry	M	0.01	% w/w

Appendix V



delta-simons
environmental consultants

A different perspective

Chemtech Environmental
Unit 25a-25b Number One Industrial Estate
Medomsley Road
Consett

Date: 31 May 2012
Test Report Ref: STR 284456

DH8 6TJ

Page 1 of 2

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Frost Heave of Unbound Aggregate in accordance with **BS 812: Part 124: 2009 - Annex B (Use of Comparator Specimens)**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S39057
Client Ref. No:	TP16
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	16/05/2012
Date of Start of Test:	18/05/2012
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	CLAY
Target Specification	SHW Series 800: clause 801.8

RESULTS:

Were any unrepresentative lumps present? No

Frost Heave Test Result:

Maximum Heave Observed in 96 hours (mm)		
Comparator Specimen 1	16.0	(nearest 0.5mm)
Comparator Specimen 2	14.0	(nearest 0.5mm)
Comparator Specimen 3	13.5	(nearest 0.5mm)
Mean	14.5	(nearest 0.1mm)
Test Specimen 1	19.5	(nearest 0.5mm)
Test Specimen 2	22.5	(nearest 0.5mm)
Test Specimen 3	23.0	(nearest 0.5mm)
Mean Frost Heave	21.7	(nearest 0.1mm)

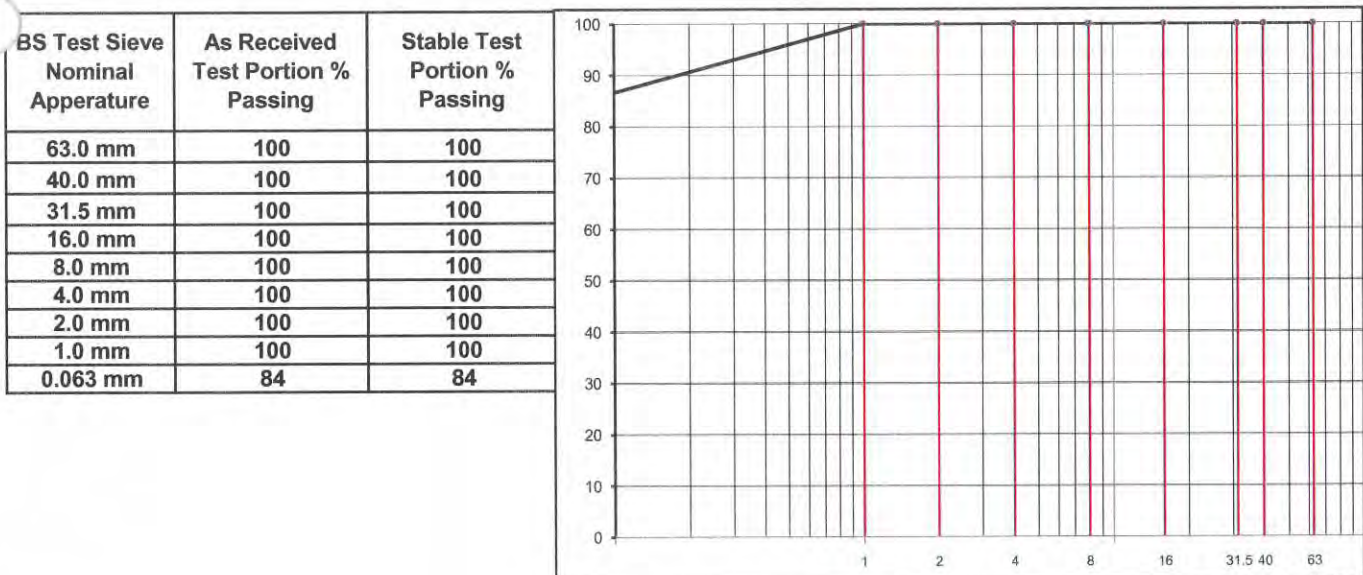
In accordance with SHW Series 800: clause 801.8 the sample is classified as being
Frost Susceptible (mean frost heave > 15mm)

RESULTS CONTINUED:

Laboratory Dry Density & Water Content Test Result

Maximum Dry Density	1.65 Mg/m3
Optimum Water Content	19 %
Actual Dry Density	1.65 Mg/m3
Actual Water Content	19 %

Particle Size Distribution Test Result



Comments

None

Certificate
Prepared by:

Mathew Sayer
Job Coordinator

Approved by: -

Eric Goulden
Technical Manager

Chemtech Environmental
Unit 25a-25b Number One Industrial Estate
Medomsley Road
Consett

Date: 11 June 2012
Test Report Ref: STR 284457

DH8 6TJ

Page 1 of 2

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Frost Heave of Unbound Aggregate in accordance with **BS 812: Part 124: 2009 - Annex B (Use of Comparator Specimens)**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S39057
Client Ref. No:	TP17
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	16/05/2012
Date of Start of Test:	18/05/2012
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	CLAY
Target Specification	SHW Series 800: clause 801.8

RESULTS:

Were any unrepresentative lumps present? No

Frost Heave Test Result:

Maximum Heave Observed in 96 hours (mm)		
Comparator Specimen 1	11.5	(nearest 0.5mm)
Comparator Specimen 2	11.0	(nearest 0.5mm)
Comparator Specimen 3	12.5	(nearest 0.5mm)
Mean	11.7	(nearest 0.1mm)
Test Specimen 1	21.0	(nearest 0.5mm)
Test Specimen 2	24.0	(nearest 0.5mm)
Test Specimen 3	25.0	(nearest 0.5mm)
Mean Frost Heave	23.3	(nearest 0.1mm)

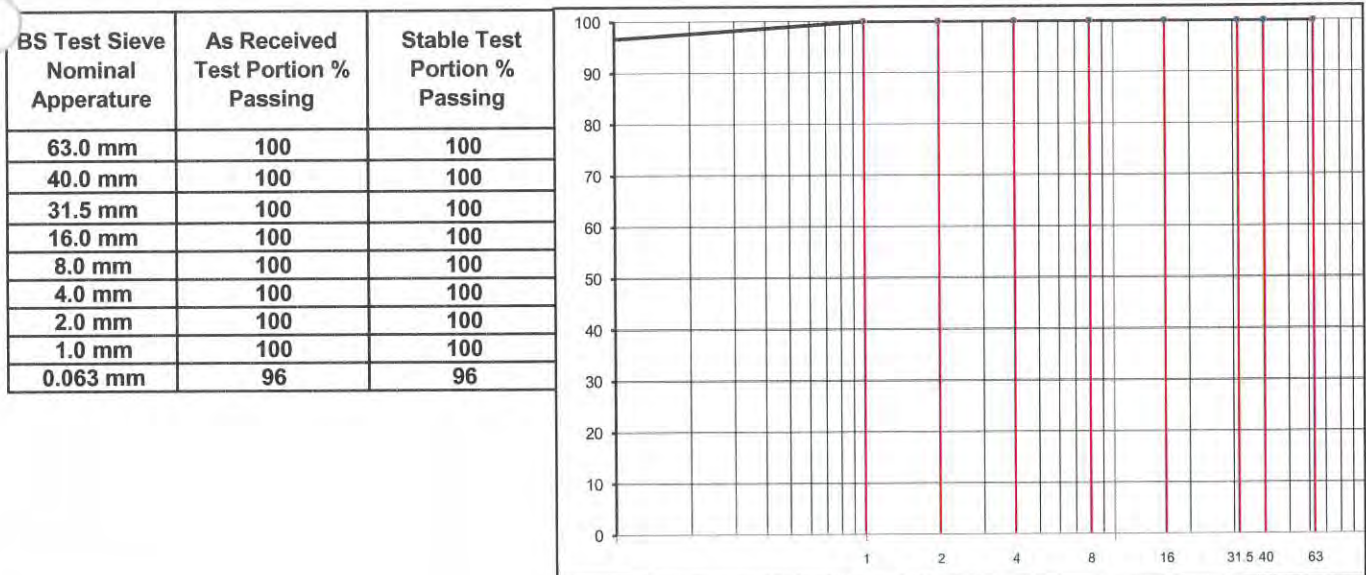
In accordance with SHW Series 800: clause 801.8 the sample is classified as being
Frost Susceptible (mean frost heave > 15mm)

RESULTS CONTINUED:

Laboratory Dry Density & Water Content Test Result

Maximum Dry Density	1.62 Mg/m3
Optimum Water Content	20 %
Actual Dry Density	1.62 Mg/m3
Actual Water Content	20 %

Particle Size Distribution Test Result



Comments

None

Certificate
Prepared by:-

Mathew Sayer
Job Coordinator

Approved by: -

Eric Goulden
Technical Manager

Chemtech Environmental
Unit 25a-25b Number One Industrial Estate
Medomsley Road
Consett

Date: 31 May 2012
Test Report Ref: STR 284458

DH8 6TJ

Page 1 of 2

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Frost Heave of Unbound Aggregate in accordance with **BS 812:**
Part 124: 2009 - Annex B (Use of Comparator Specimens)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S39057
Client Ref. No:	TP19
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	16/05/2012
Date of Start of Test:	18/05/2012
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	CLAY
Target Specification	SHW Series 800: clause 801.8

RESULTS:

Were any unrepresentative lumps present? No

Frost Heave Test Result:

Maximum Heave Observed in 96 hours (mm)		
Comparator Specimen 1	16.0	(nearest 0.5mm)
Comparator Specimen 2	14.0	(nearest 0.5mm)
Comparator Specimen 3	13.5	(nearest 0.5mm)
Mean	14.5	(nearest 0.1mm)
Test Specimen 1	20.0	(nearest 0.5mm)
Test Specimen 2	20.0	(nearest 0.5mm)
Test Specimen 3	20.0	(nearest 0.5mm)
Mean Frost Heave	20.0	(nearest 0.1mm)

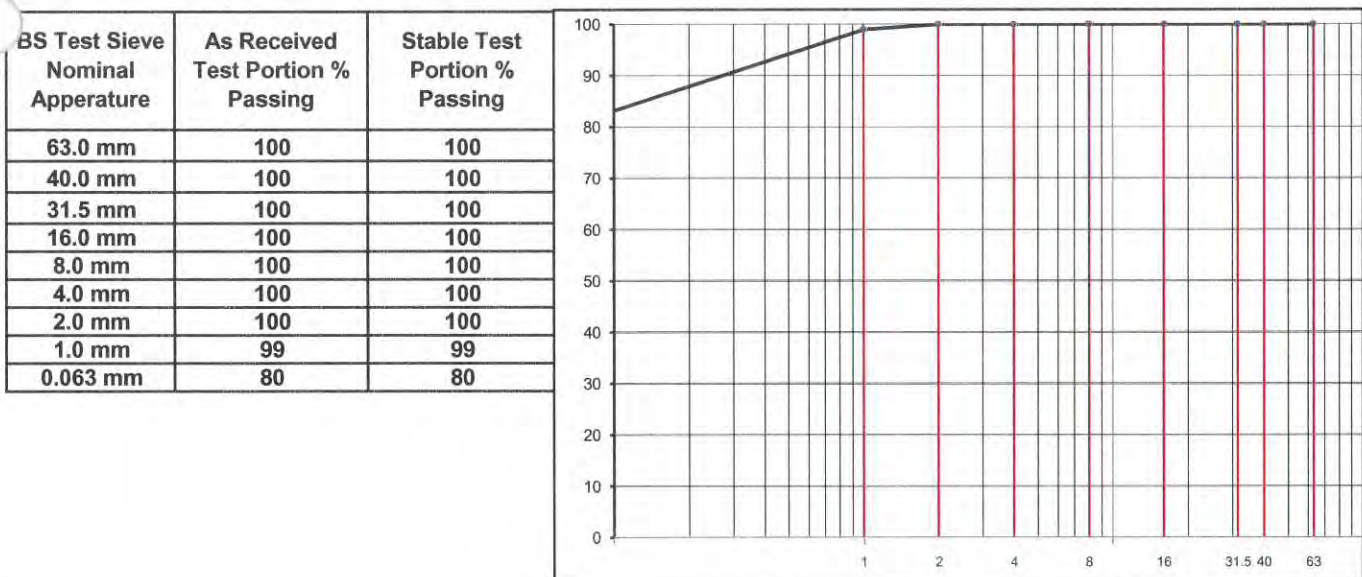
In accordance with SHW Series 800: clause 801.8 the sample is classified as being
Frost Susceptible (mean frost heave > 15mm)

RESULTS CONTINUED:

Laboratory Dry Density & Water Content Test Result

Maximum Dry Density	1.67 Mg/m3
Optimum Water Content	19 %
Actual Dry Density	1.67 Mg/m3
Actual Water Content	19 %

Particle Size Distribution Test Result



Comments

None

Certificate
Prepared by:-

Mathew Sayer
Job Coordinator

Approved by: -

Eric Goulden
Technical Manager

Chemtech Environmental
Unit 25a-25b Number One Industrial Estate
Medomsley Road
Consett

Date: 11 June 2012
Test Report Ref: STR 284459

DH8 6TJ

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LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Frost Heave of Unbound Aggregate in accordance with **BS 812: Part 124: 2009 - Annex B (Use of Comparator Specimens)**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S39057
Client Ref. No:	TP20
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	16/05/2012
Date of Start of Test:	18/05/2012
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	CLAY
Target Specification	SHW Series 800: clause 801.8

RESULTS:

Were any unrepresentative lumps present? No

Frost Heave Test Result:

Maximum Heave Observed in 96 hours (mm)		
Comparator Specimen 1	13.5	(nearest 0.5mm)
Comparator Specimen 2	13.0	(nearest 0.5mm)
Comparator Specimen 3	12.5	(nearest 0.5mm)
Mean	13.0	(nearest 0.1mm)
Test Specimen 1	25.0	(nearest 0.5mm)
Test Specimen 2	27.0	(nearest 0.5mm)
Test Specimen 3	26.5	(nearest 0.5mm)
Mean Frost Heave	26.2	(nearest 0.1mm)

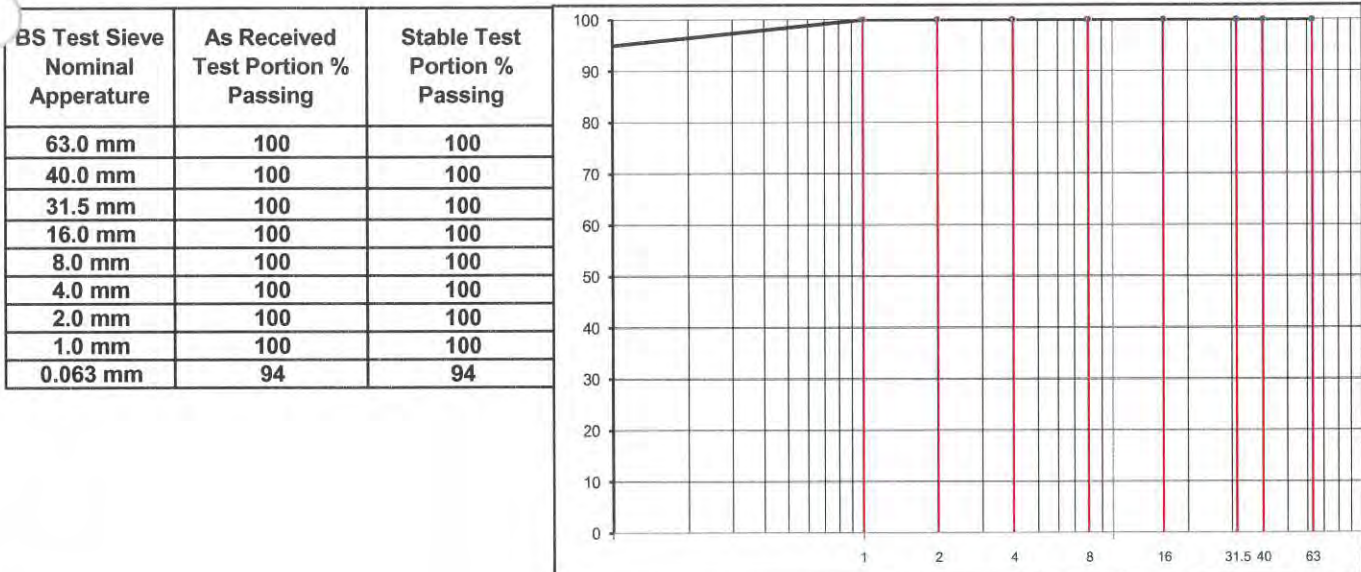
In accordance with SHW Series 800: clause 801.8 the sample is classified as being
Frost Susceptible (mean frost heave > 15mm)

RESULTS CONTINUED:

Laboratory Dry Density & Water Content Test Result

Maximum Dry Density	1.5 Mg/m3
Optimum Water Content	26 %
Actual Dry Density	1.5 Mg/m3
Actual Water Content	26 %

Particle Size Distribution Test Result



Comments

None

Certificate
Prepared by:-

Mathew Sayer
Job Coordinator

Approved by: -

Eric Goulden
Technical Manager

Chemtech Environmental
Unit 25a-25b Number One Industrial Estate
Medomsley Road
Consett

Date: 11 June 2012
Test Report Ref: STR 284460

DH8 6TJ

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LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Frost Heave of Unbound Aggregate in accordance with **BS 812: Part 124: 2009 - Annex B (Use of Comparator Specimens)**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S39057
Client Ref. No:	TP22
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	16/05/2012
Date of Start of Test:	18/05/2012
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	CLAY
Target Specification	SHW Series 800: clause 801.8

RESULTS:

Were any unrepresentative lumps present? No

Frost Heave Test Result:

Maximum Heave Observed in 96 hours (mm)		
Comparator Specimen 1	13.5	(nearest 0.5mm)
Comparator Specimen 2	13.0	(nearest 0.5mm)
Comparator Specimen 3	13.0	(nearest 0.5mm)
Mean	13.2	(nearest 0.1mm)
Test Specimen 1	20.0	(nearest 0.5mm)
Test Specimen 2	20.0	(nearest 0.5mm)
Test Specimen 3	22.5	(nearest 0.5mm)
Mean Frost Heave	20.8	(nearest 0.1mm)

In accordance with SHW Series 800: clause 801.8 the sample is classified as being

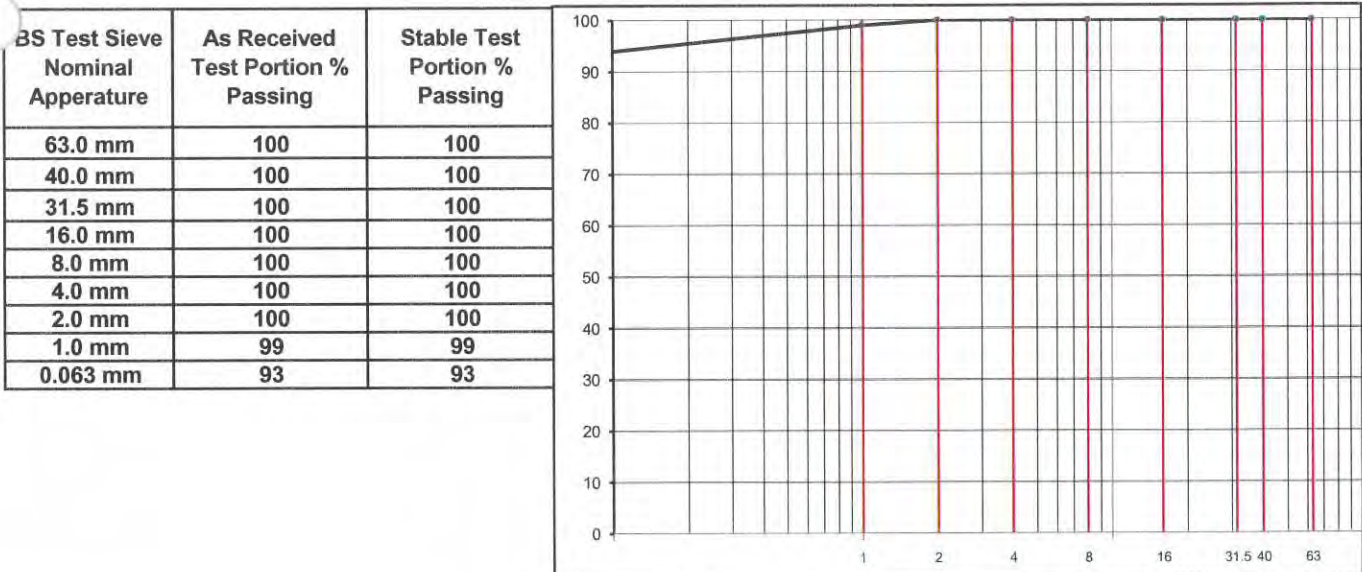
Frost Susceptible (mean frost heave > 15mm)

RESULTS CONTINUED:

Laboratory Dry Density & Water Content Test Result

Maximum Dry Density	1.66 Mg/m3
Optimum Water Content	17 %
Actual Dry Density	1.66 Mg/m3
Actual Water Content	17 %

Particle Size Distribution Test Result



Comments

None

Certificate
Prepared by:

Mathew Sayer
Job Coordinator

Approved by: -

Eric Goulden
Technical Manager

Chemtech Environmental
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Medomsley Road
Consett

Date: 31 May 2012
Test Report Ref: STR 284461

DH8 6TJ

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LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Frost Heave of Unbound Aggregate in accordance with **BS 812: Part 124: 2009 - Annex B (Use of Comparator Specimens)**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S39057
Client Ref. No:	TP23
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	16/05/2012
Date of Start of Test:	18/05/2012
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	CLAY
Target Specification	SHW Series 800: clause 801.8

RESULTS:

Were any unrepresentative lumps present? No

Frost Heave Test Result:

Maximum Heave Observed in 96 hours (mm)		
Comparator Specimen 1	13.5	(nearest 0.5mm)
Comparator Specimen 2	13.5	(nearest 0.5mm)
Comparator Specimen 3	14.5	(nearest 0.5mm)
Mean	13.8	(nearest 0.1mm)
Test Specimen 1	17.0	(nearest 0.5mm)
Test Specimen 2	17.0	(nearest 0.5mm)
Test Specimen 3	21.0	(nearest 0.5mm)
Mean Frost Heave	18.3	(nearest 0.1mm)

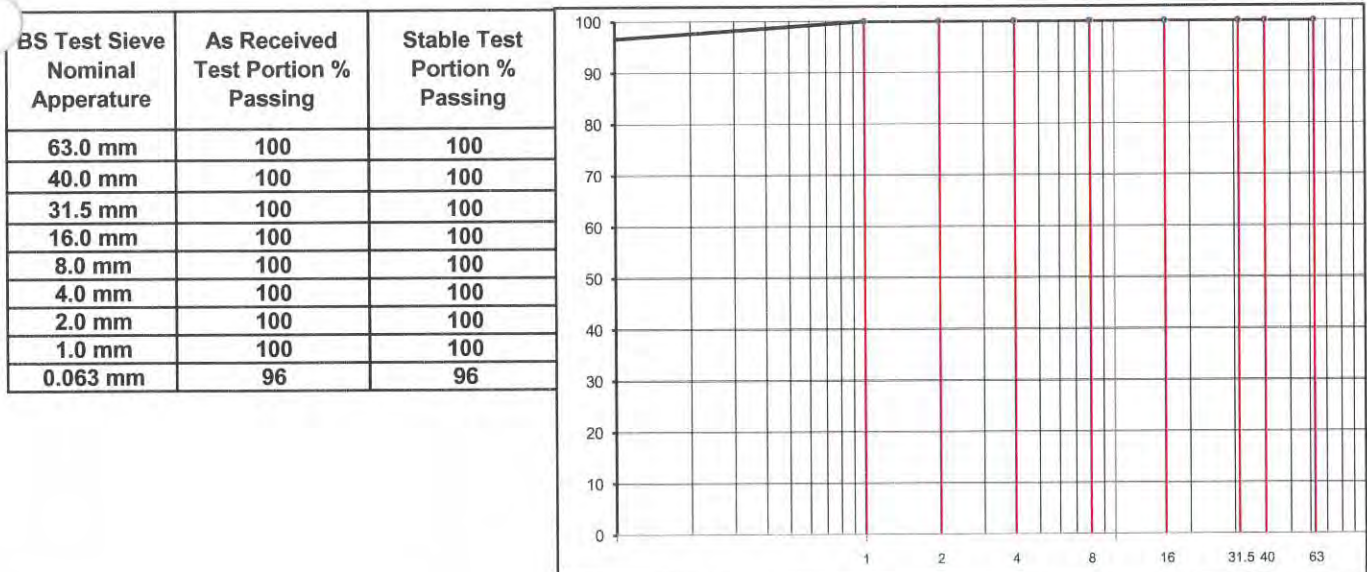
In accordance with SHW Series 800: clause 801.8 the sample is classified as being
Frost Susceptible (mean frost heave > 15mm)

RESULTS CONTINUED:

Laboratory Dry Density & Water Content Test Result

Maximum Dry Density	1.68 Mg/m3
Optimum Water Content	16 %
Actual Dry Density	1.68 Mg/m3
Actual Water Content	16 %

Particle Size Distribution Test Result



Comments

None

Certificate
Prepared by:-

Mathew Sayer
Job Coordinator

Approved by: -

Eric Goulden
Technical Manager

Chemtech Environmental
Unit 25a-25b Number One Industrial Estate
Medomsley Road
Consett

Date: 11 June 2012
Test Report Ref: STR 284462

DH8 6TJ

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LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Frost Heave of Unbound Aggregate in accordance with **BS 812: Part 124: 2009 - Annex B (Use of Comparator Specimens)**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S39057
Client Ref. No:	TP26
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	16/05/2012
Date of Start of Test:	18/05/2012
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	CLAY
Target Specification	SHW Series 800: clause 801.8

RESULTS:

Were any unrepresentative lumps present? No

Frost Heave Test Result:

Maximum Heave Observed in 96 hours (mm)		
Comparator Specimen 1	13.5	(nearest 0.5mm)
Comparator Specimen 2	14.0	(nearest 0.5mm)
Comparator Specimen 3	14.5	(nearest 0.5mm)
Mean	14.0	(nearest 0.1mm)
Test Specimen 1	18.0	(nearest 0.5mm)
Test Specimen 2	19.5	(nearest 0.5mm)
Test Specimen 3	21.0	(nearest 0.5mm)
Mean Frost Heave	19.5	(nearest 0.1mm)

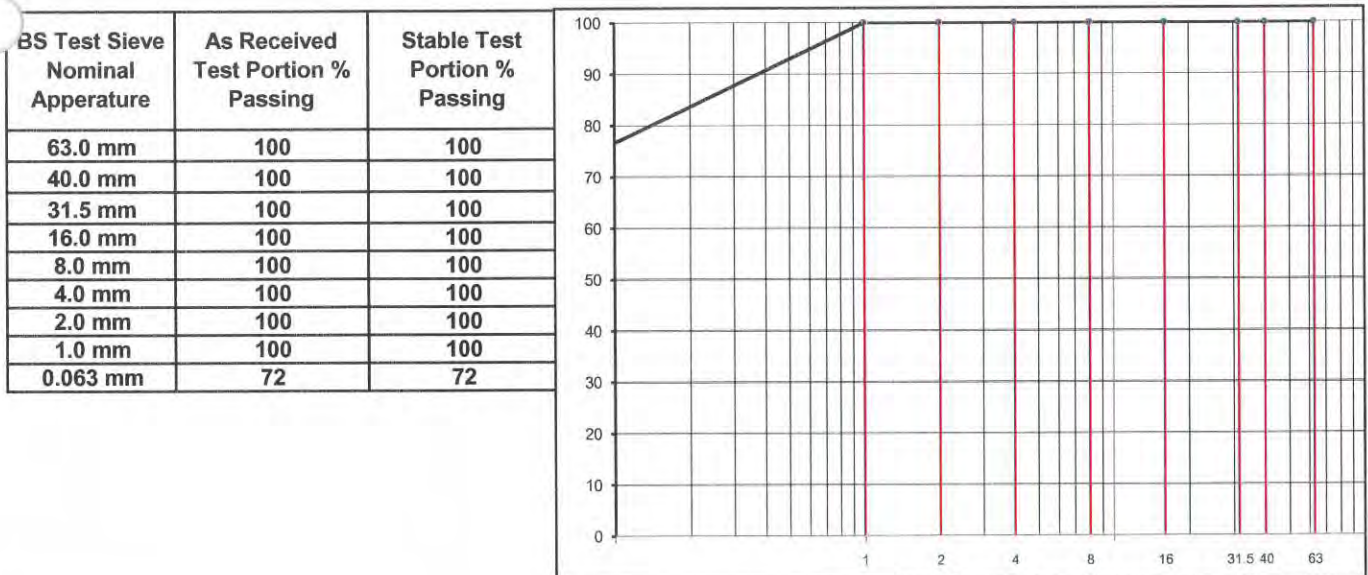
In accordance with SHW Series 800: clause 801.8 the sample is classified as being
Frost Susceptible (mean frost heave > 15mm)

RESULTS CONTINUED:

Laboratory Dry Density & Water Content Test Result

Maximum Dry Density	1.67 Mg/m3
Optimum Water Content	17 %
Actual Dry Density	1.67 Mg/m3
Actual Water Content	17.1 %

Particle Size Distribution Test Result



Comments

None

Certificate
Prepared by:-

Mathew Sayer
Job Coordinator

Approved by: -

Eric Goulden
Technical Manager

Chemtech Environmental
Unit 25a-25b Number One Industrial Estate
Medomsley Road
Consett

Date: 31 May 2012
Test Report Ref: STR 284463

DH8 6TJ

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LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Frost Heave of Unbound Aggregate in accordance with **BS 812: Part 124: 2009 - Annex B (Use of Comparator Specimens)**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S39057
Client Ref. No:	TP27
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	16/05/2012
Date of Start of Test:	18/05/2012
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	CLAY
Target Specification	SHW Series 800: clause 801.8

RESULTS:

Were any unrepresentative lumps present? No

Frost Heave Test Result:

Maximum Heave Observed in 96 hours (mm)		
Comparator Specimen 1	13.5	(nearest 0.5mm)
Comparator Specimen 2	13.5	(nearest 0.5mm)
Comparator Specimen 3	14.5	(nearest 0.5mm)
Mean	13.8	(nearest 0.1mm)
Test Specimen 1	18.5	(nearest 0.5mm)
Test Specimen 2	18.0	(nearest 0.5mm)
Test Specimen 3	20.0	(nearest 0.5mm)
Mean Frost Heave	18.8	(nearest 0.1mm)

In accordance with SHW Series 800: clause 801.8 the sample is classified as being
Frost Susceptible (mean frost heave > 15mm)

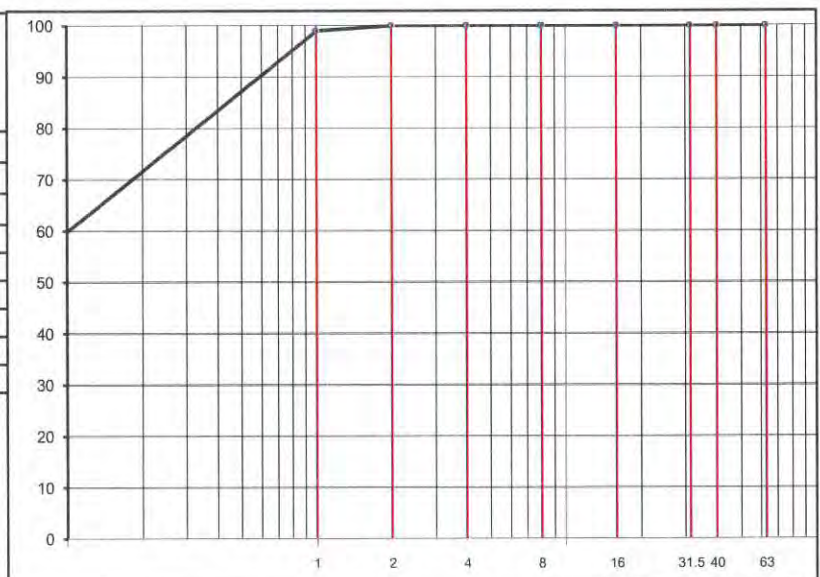
RESULTS CONTINUED:

Laboratory Dry Density & Water Content Test Result

Maximum Dry Density	1.67 Mg/m3
Optimum Water Content	17 %
Actual Dry Density	1.67 Mg/m3
Actual Water Content	17 %

Particle Size Distribution Test Result

BS Test Sieve Nominal Aperture	As Received Test Portion % Passing	Stable Test Portion % Passing
63.0 mm	100	100
40.0 mm	100	100
31.5 mm	100	100
16.0 mm	100	100
8.0 mm	100	100
4.0 mm	100	100
2.0 mm	100	100
1.0 mm	99	99
0.063 mm	52	52



Comments

None

Certificate
Prepared by:

Mathew Sayer
Job Coordinator

Approved by: -

Eric Goulden
Technical Manager

Chemtech Environmental
Unit 25a-25b Number One Industrial Estate
Medomsley Road
Consett

Date: 11 June 2012
Test Report Ref: STR 284464

DH8 6TJ

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LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Frost Heave of Unbound Aggregate in accordance with **BS 812: Part 124: 2009 - Annex B (Use of Comparator Specimens)**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S39057
Client Ref. No:	TP28
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	16/05/2012
Date of Start of Test:	18/05/2012
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	CLAY
Target Specification	SHW Series 800: clause 801.8

RESULTS:

Were any unrepresentative lumps present? No

Frost Heave Test Result:

Maximum Heave Observed in 96 hours (mm)		
Comparator Specimen 1	14.5	(nearest 0.5mm)
Comparator Specimen 2	13.5	(nearest 0.5mm)
Comparator Specimen 3	14.0	(nearest 0.5mm)
Mean	14.0	(nearest 0.1mm)
Test Specimen 1	19.0	(nearest 0.5mm)
Test Specimen 2	16.0	(nearest 0.5mm)
Test Specimen 3	17.0	(nearest 0.5mm)
Mean Frost Heave	17.3	(nearest 0.1mm)

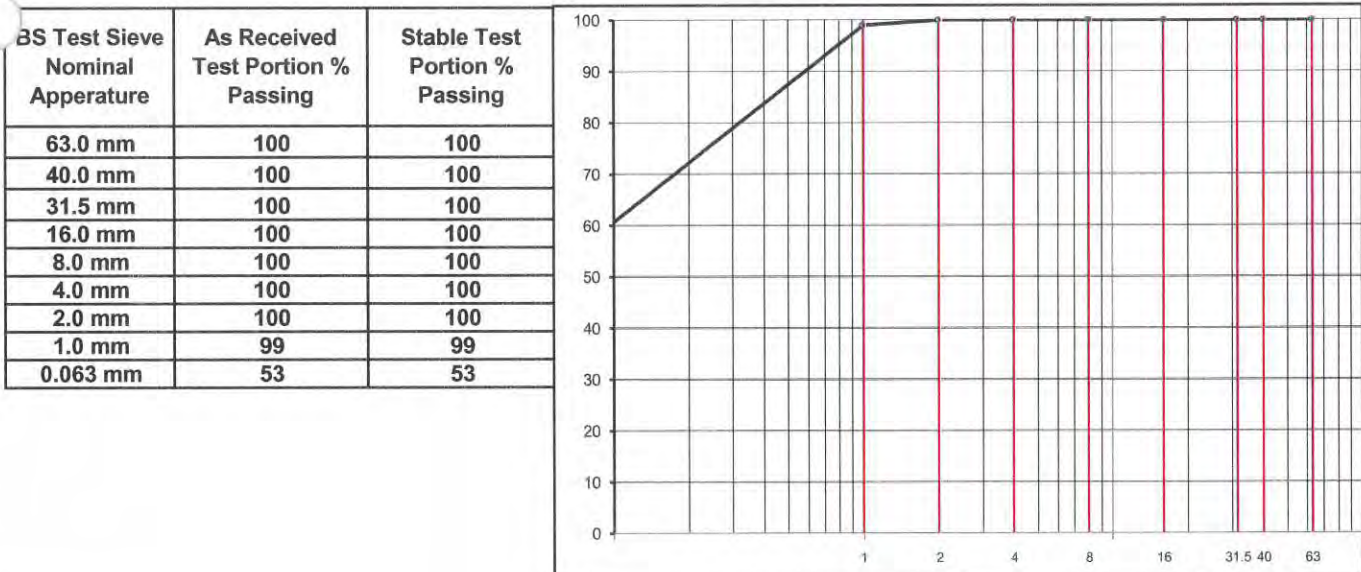
In accordance with SHW Series 800: clause 801.8 the sample is classified as being
Frost Susceptible (mean frost heave > 15mm)

RESULTS CONTINUED:

Laboratory Dry Density & Water Content Test Result

Maximum Dry Density	1.57 Mg/m3
Optimum Water Content	15.5 %
Actual Dry Density	1.57 Mg/m3
Actual Water Content	15.5 %

Particle Size Distribution Test Result



Comments

None

Certificate
Prepared by:-

Mathew Sayer
Job Coordinator

Approved by: -

Eric Goulden
Technical Manager

Chemtech Environmental
Unit 25a-25b Number One Industrial Estate
Medomsley Road
Consett

Date: 31 May 2012
Test Report Ref: STR 284465

DH8 6TJ

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LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Frost Heave of Unbound Aggregate in accordance with **BS 812:**
Part 124: 2009 - Annex B (Use of Comparator Specimens)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S39057
Client Ref. No:	TP29
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	16/05/2012
Date of Start of Test:	18/05/2012
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	CLAY
Target Specification	SHW Series 800: clause 801.8

RESULTS:

Were any unrepresentative lumps present? No

Frost Heave Test Result:

Maximum Heave Observed in 96 hours (mm)		
Comparator Specimen 1	14.0	(nearest 0.5mm)
Comparator Specimen 2	15.0	(nearest 0.5mm)
Comparator Specimen 3	13.5	(nearest 0.5mm)
Mean	14.2	(nearest 0.1mm)
Test Specimen 1	15.5	(nearest 0.5mm)
Test Specimen 2	19.0	(nearest 0.5mm)
Test Specimen 3	19.5	(nearest 0.5mm)
Mean Frost Heave	18.0	(nearest 0.1mm)

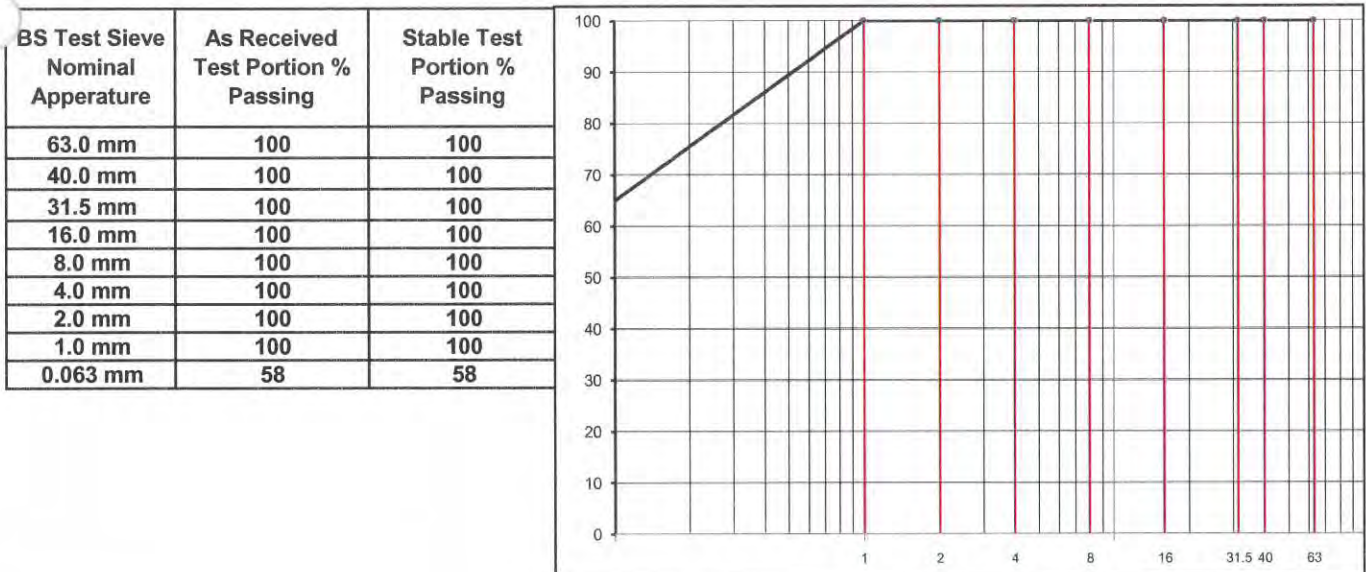
In accordance with SHW Series 800: clause 801.8 the sample is classified as being
Frost Susceptible (mean frost heave > 15mm)

RESULTS CONTINUED:

Laboratory Dry Density & Water Content Test Result

Maximum Dry Density	1.67 Mg/m3
Optimum Water Content	17 %
Actual Dry Density	1.67 Mg/m3
Actual Water Content	17 %

Particle Size Distribution Test Result



Comments

None

Certificate
Prepared by:-

Mathew Sayer
Job Coordinator

Approved by: -

Eric Goulden
Technical Manager

Chemtech Environmental
Unit 25a-25b Number One Industrial Estate
Medomsley Road
Consett

Date: 11 June 2012
Test Report Ref: STR 284466

DH8 6TJ

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LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Frost Heave of Unbound Aggregate in accordance with **BS 812: Part 124: 2009 - Annex B (Use of Comparator Specimens)**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S39057
Client Ref. No:	TP30
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	16/05/2012
Date of Start of Test:	18/05/2012
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	CLAY
Target Specification	SHW Series 800: clause 801.8

RESULTS:

Were any unrepresentative lumps present? No

Frost Heave Test Result:

Maximum Heave Observed in 96 hours (mm)		
Comparator Specimen 1	12.0	(nearest 0.5mm)
Comparator Specimen 2	12.0	(nearest 0.5mm)
Comparator Specimen 3	13.5	(nearest 0.5mm)
Mean	12.5	(nearest 0.1mm)
Test Specimen 1	18.0	(nearest 0.5mm)
Test Specimen 2	17.5	(nearest 0.5mm)
Test Specimen 3	16.0	(nearest 0.5mm)
Mean Frost Heave	17.2	(nearest 0.1mm)

In accordance with SHW Series 800: clause 801.8 the sample is classified as being

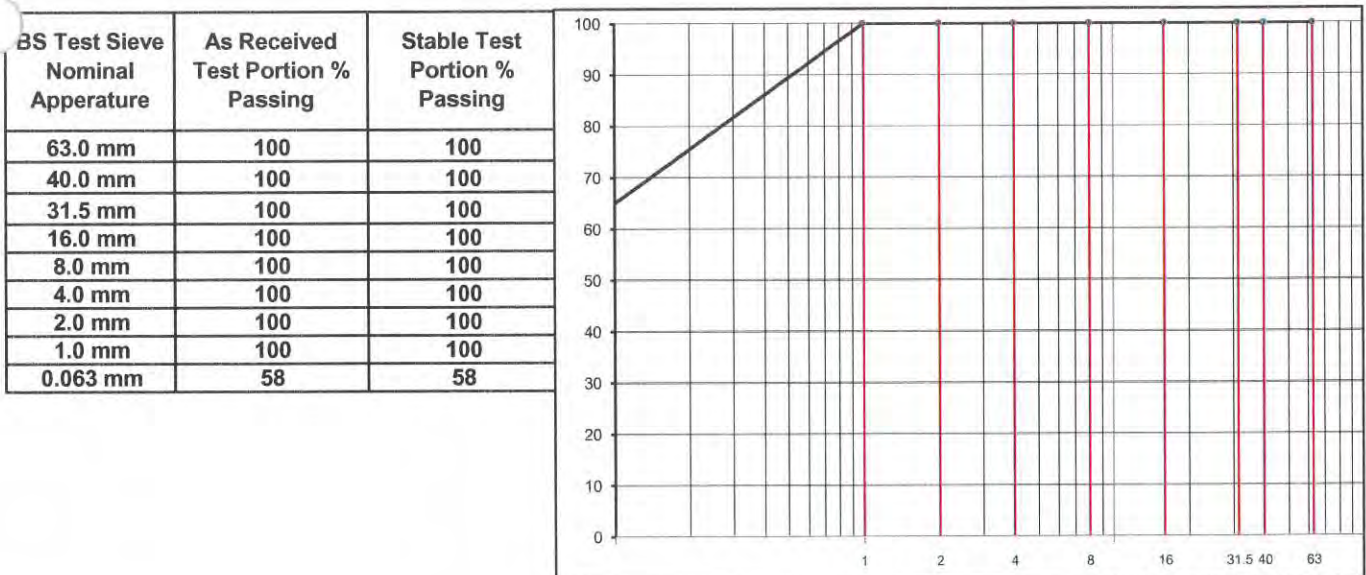
Frost Susceptible (mean frost heave > 15mm)

RESULTS CONTINUED:

Laboratory Dry Density & Water Content Test Result

Maximum Dry Density	1.69 Mg/m3
Optimum Water Content	17 %
Actual Dry Density	1.69 Mg/m3
Actual Water Content	17 %

Particle Size Distribution Test Result



Comments

None

Certificate
Prepared by:-

Mathew Sayer
Job Coordinator

Approved by: -

Eric Goulden
Technical Manager

Chemtech Environmental
Unit 25a-25b Number One Industrial Estate
Medomsley Road
Consett

Date: 31 May 2012
Test Report Ref: STR 284467

DH8 6TJ

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LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Frost Heave of Unbound Aggregate in accordance with **BS 812: Part 124: 2009 - Annex B (Use of Comparator Specimens)**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S39057
Client Ref. No:	TR114
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	16/05/2012
Date of Start of Test:	18/05/2012
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	CLAY
Target Specification	SHW Series 800: clause 801.8

RESULTS:

Were any unrepresentative lumps present? No

Frost Heave Test Result:

Maximum Heave Observed in 96 hours (mm)		
Comparator Specimen 1	14.0	(nearest 0.5mm)
Comparator Specimen 2	15.0	(nearest 0.5mm)
Comparator Specimen 3	13.5	(nearest 0.5mm)
Mean	14.2	(nearest 0.1mm)
Test Specimen 1	30.0	(nearest 0.5mm)
Test Specimen 2	33.0	(nearest 0.5mm)
Test Specimen 3	29.5	(nearest 0.5mm)
Mean Frost Heave	30.8	(nearest 0.1mm)

In accordance with SHW Series 800: clause 801.8 the sample is classified as being

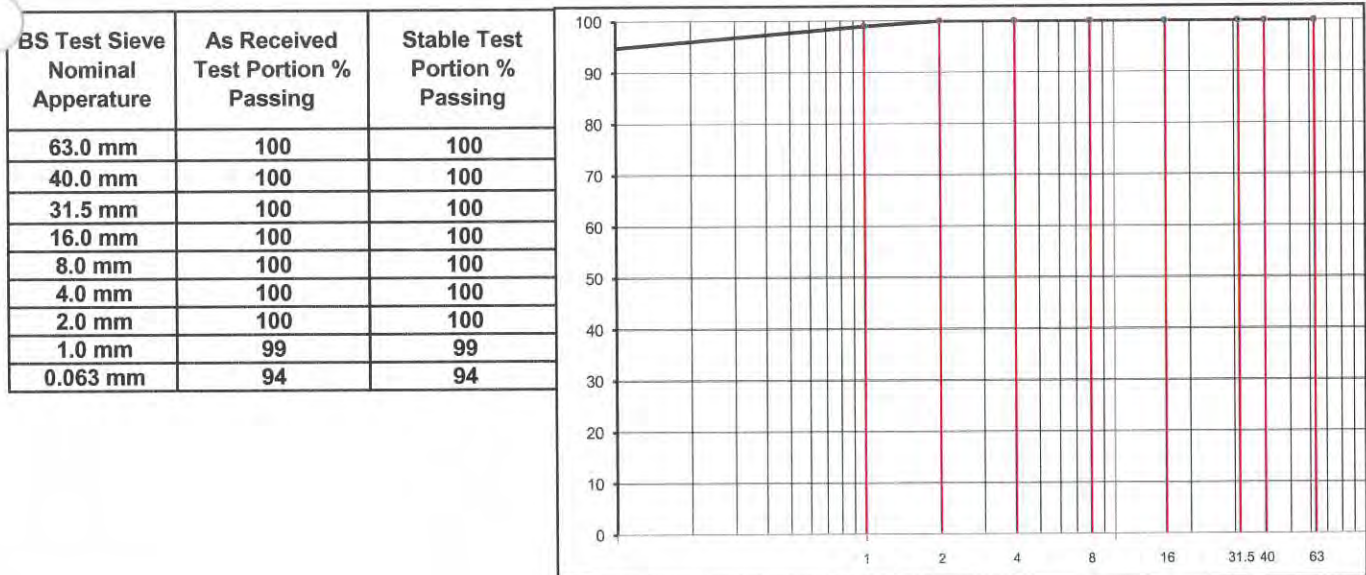
Frost Susceptible (mean frost heave > 15mm)

RESULTS CONTINUED:

Laboratory Dry Density & Water Content Test Result

Maximum Dry Density	1.58 Mg/m3
Optimum Water Content	23 %
Actual Dry Density	1.58 Mg/m3
Actual Water Content	23 %

Particle Size Distribution Test Result



Comments

None

Certificate
Prepared by:

Mathew Sayer
Job Coordinator

Approved by: -

Eric Goulden
Technical Manager

Chemtech Environmental
Unit 25a-25b Number One Industrial Estate
Medomsley Road
Consett

Date: 11 June 2012
Test Report Ref: STR 284468

DH8 6TJ

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LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Frost Heave of Unbound Aggregate in accordance with **BS 812: Part 124: 2009 - Annex B (Use of Comparator Specimens)**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S39057
Client Ref. No:	TR115
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	16/05/2012
Date of Start of Test:	18/05/2012
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	CLAY
Target Specification	SHW Series 800: clause 801.8

RESULTS:

Were any unrepresentative lumps present? No

Frost Heave Test Result:

Maximum Heave Observed in 96 hours (mm)		
Comparator Specimen 1	13.5	(nearest 0.5mm)
Comparator Specimen 2	12.0	(nearest 0.5mm)
Comparator Specimen 3	12.0	(nearest 0.5mm)
Mean	12.5	(nearest 0.1mm)
Test Specimen 1	15.0	(nearest 0.5mm)
Test Specimen 2	16.0	(nearest 0.5mm)
Test Specimen 3	17.5	(nearest 0.5mm)
Mean Frost Heave	16.2	(nearest 0.1mm)

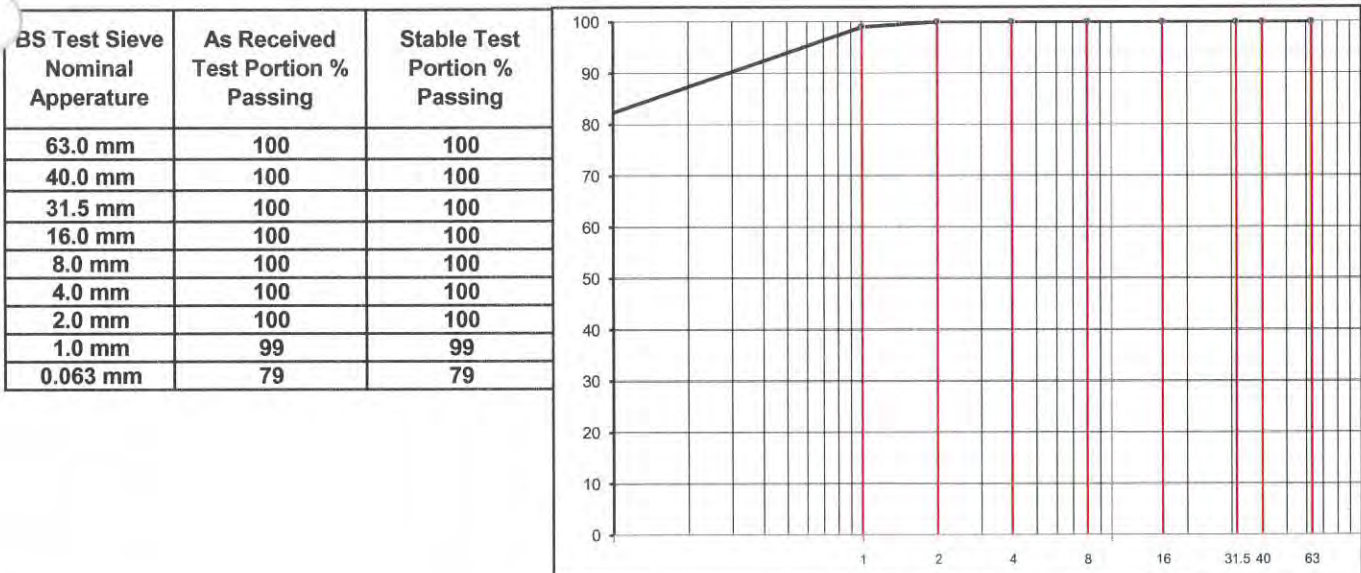
In accordance with SHW Series 800: clause 801.8 the sample is classified as being
Frost Susceptible (mean frost heave > 15mm)

RESULTS CONTINUED:

Laboratory Dry Density & Water Content Test Result

Maximum Dry Density	1.64 Mg/m3
Optimum Water Content	18.5 %
Actual Dry Density	1.64 Mg/m3
Actual Water Content	18.5 %

Particle Size Distribution Test Result



Comments

None

Certificate
Prepared by:-

Mathew Sayer
Job Coordinator

Approved by: -

Eric Goulden
Technical Manager

Chemtech Environmental
Unit 25a-25b Number One Industrial Estate
Medomsley Road
Consett

Date: 31 May 2012
Test Report Ref: STR 284441

DH8 6TJ

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LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Frost Heave of Unbound Aggregate in accordance with **BS 812: Part 124: 2009 - Annex B (Use of Comparator Specimens)**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S39057
Client Ref. No:	BO13
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	16/05/2012
Date of Start of Test:	18/05/2012
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	CLAY
Target Specification	SHW Series 800: clause 801.8

RESULTS:

Were any unrepresentative lumps present? No

Frost Heave Test Result:

Maximum Heave Observed in 96 hours (mm)		
Comparator Specimen 1	13.5	(nearest 0.5mm)
Comparator Specimen 2	12.0	(nearest 0.5mm)
Comparator Specimen 3	14.0	(nearest 0.5mm)
Mean	13.2	(nearest 0.1mm)
Test Specimen 1	21.0	(nearest 0.5mm)
Test Specimen 2	17.5	(nearest 0.5mm)
Test Specimen 3	19.5	(nearest 0.5mm)
Mean Frost Heave	19.3	(nearest 0.1mm)

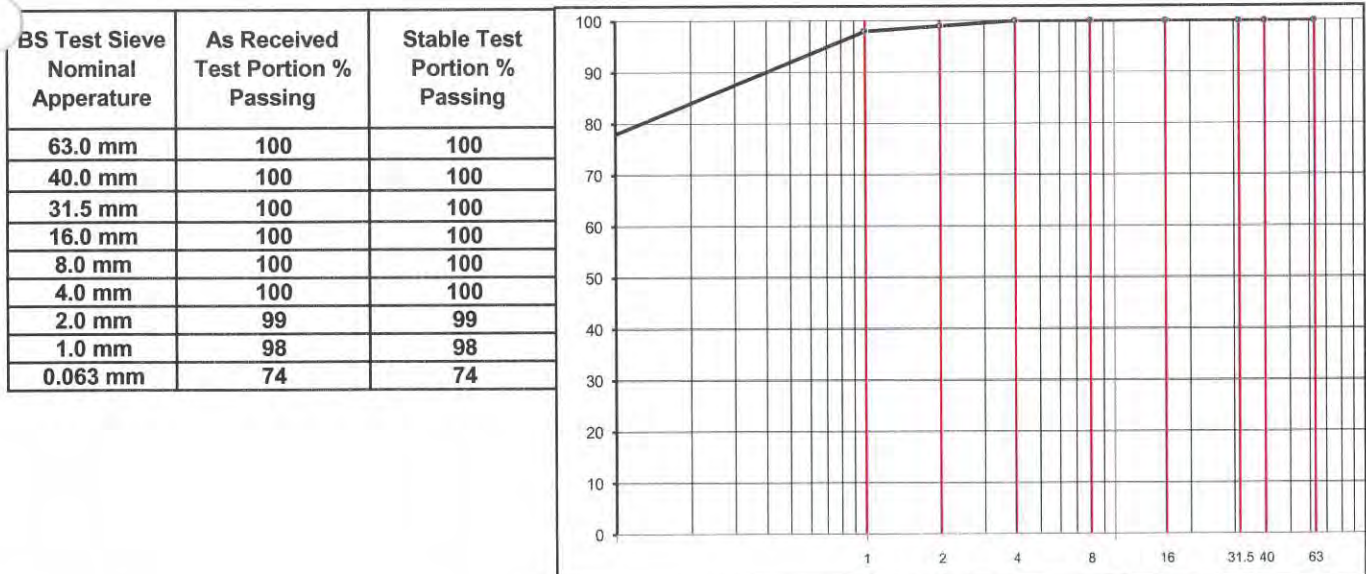
In accordance with SHW Series 800: clause 801.8 the sample is classified as being
Frost Susceptible (mean frost heave > 15mm)

RESULTS CONTINUED:

Laboratory Dry Density & Water Content Test Result

Maximum Dry Density	1.72 Mg/m3
Optimum Water Content	17 %
Actual Dry Density	1.72 Mg/m3
Actual Water Content	17 %

Particle Size Distribution Test Result



Comments

None

Certificate
Prepared by:

Mathew Sayer
Job Coordinator

Approved by: -

Eric Goulden
Technical Manager

Chemtech Environmental
Unit 25a-25b Number One Industrial Estate
Medomsley Road
Consett

Date: 31 May 2012
Test Report Ref: STR 284442

DH8 6TJ

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LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Frost Heave of Unbound Aggregate in accordance with **BS 812:**
Part 124: 2009 - Annex B (Use of Comparator Specimens)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S39057
Client Ref. No:	BO15
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	16/05/2012
Date of Start of Test:	18/05/2012
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	CLAY
Target Specification	SHW Series 800: clause 801.8

RESULTS:

Were any unrepresentative lumps present? No

Frost Heave Test Result:

Maximum Heave Observed in 96 hours (mm)		
Comparator Specimen 1	13.5	(nearest 0.5mm)
Comparator Specimen 2	12.0	(nearest 0.5mm)
Comparator Specimen 3	14.0	(nearest 0.5mm)
Mean	13.2	(nearest 0.1mm)
Test Specimen 1	32.5	(nearest 0.5mm)
Test Specimen 2	32.5	(nearest 0.5mm)
Test Specimen 3	28.5	(nearest 0.5mm)
Mean Frost Heave	31.2	(nearest 0.1mm)

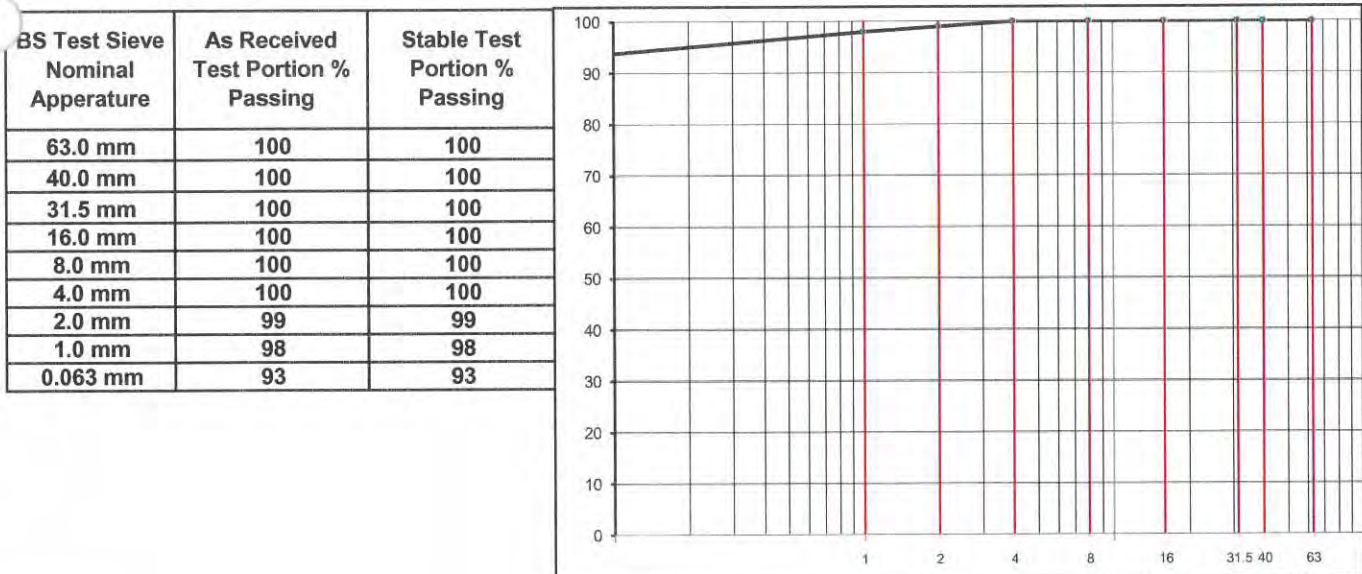
In accordance with SHW Series 800: clause 801.8 the sample is classified as being
Frost Susceptible (mean frost heave > 15mm)

RESULTS CONTINUED:

Laboratory Dry Density & Water Content Test Result

Maximum Dry Density	1.55 Mg/m3
Optimum Water Content	23 %
Actual Dry Density	1.55 Mg/m3
Actual Water Content	23 %

Particle Size Distribution Test Result



Comments

None

Certificate
Prepared by:-

Mathew Sayer
Job Coordinator

Approved by: -

Eric Goulden
Technical Manager

Chemtech Environmental
Unit 25a-25b Number One Industrial Estate
Medomsley Road
Consett

Date: 31 May 2012
Test Report Ref: STR 284443

DH8 6TJ

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LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Frost Heave of Unbound Aggregate in accordance with **BS 812: Part 124: 2009 - Annex B (Use of Comparator Specimens)**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S39057
Client Ref. No:	BO35
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	16/05/2012
Date of Start of Test:	18/05/2012
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	CLAY
Target Specification:	SHW Series 800: clause 801.8

RESULTS:

Were any unrepresentative lumps present? No

Frost Heave Test Result:

Maximum Heave Observed in 96 hours (mm)		
Comparator Specimen 1	13.0	(nearest 0.5mm)
Comparator Specimen 2	14.5	(nearest 0.5mm)
Comparator Specimen 3	12.0	(nearest 0.5mm)
Mean	13.2	(nearest 0.1mm)
Test Specimen 1	18.0	(nearest 0.5mm)
Test Specimen 2	19.5	(nearest 0.5mm)
Test Specimen 3	18.0	(nearest 0.5mm)
Mean Frost Heave	18.5	(nearest 0.1mm)

In accordance with SHW Series 800: clause 801.8 the sample is classified as being
Frost Susceptible (mean frost heave > 15mm)

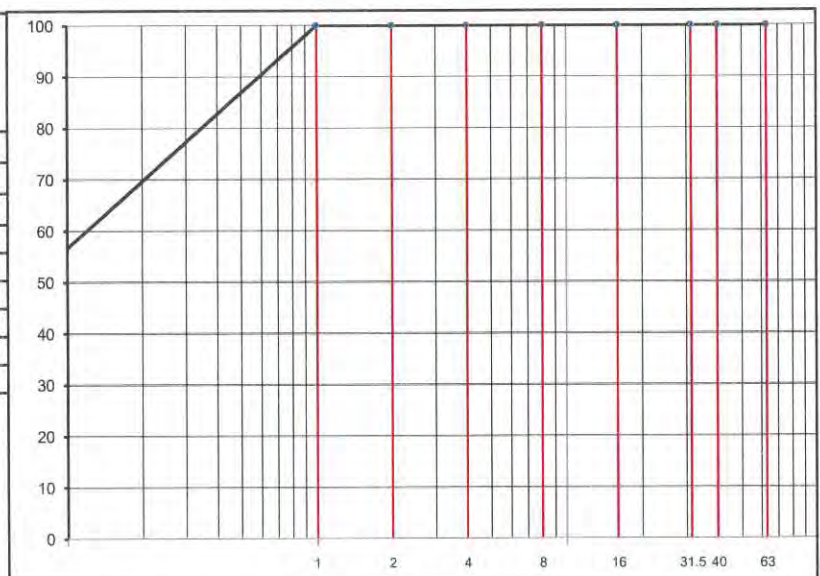
RESULTS CONTINUED:

Laboratory Dry Density & Water Content Test Result

Maximum Dry Density	1.7 Mg/m3
Optimum Water Content	16 %
Actual Dry Density	1.7 Mg/m3
Actual Water Content	16 %

Particle Size Distribution Test Result

BS Test Sieve Nominal Apperture	As Received Test Portion % Passing	Stable Test Portion % Passing
63.0 mm	100	100
40.0 mm	100	100
31.5 mm	100	100
16.0 mm	100	100
8.0 mm	100	100
4.0 mm	100	100
2.0 mm	100	100
1.0 mm	100	100
0.063 mm	48	48



Comments

None

Certificate
Prepared by:-

Mathew Sayer
Job Coordinator

Approved by: -

Eric Goulden
Technical Manager

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Consett

Date: 31 May 2012
Test Report Ref: STR 284444

DH8 6TJ

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LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Frost Heave of Unbound Aggregate in accordance with **BS 812: Part 124: 2009 - Annex B (Use of Comparator Specimens)**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S39057
Client Ref. No:	BO37
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	16/05/2012
Date of Start of Test:	18/05/2012
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	CLAY
Target Specification	SHW Series 800: clause 801.8

RESULTS:

Were any unrepresentative lumps present? No

Frost Heave Test Result:

Maximum Heave Observed in 96 hours (mm)		
Comparator Specimen 1	13.0	(nearest 0.5mm)
Comparator Specimen 2	14.5	(nearest 0.5mm)
Comparator Specimen 3	12.0	(nearest 0.5mm)
Mean	13.2	(nearest 0.1mm)
Test Specimen 1	16.0	(nearest 0.5mm)
Test Specimen 2	21.0	(nearest 0.5mm)
Test Specimen 3	19.0	(nearest 0.5mm)
Mean Frost Heave	18.7	(nearest 0.1mm)

In accordance with SHW Series 800: clause 801.8 the sample is classified as being
Frost Susceptible (mean frost heave > 15mm)

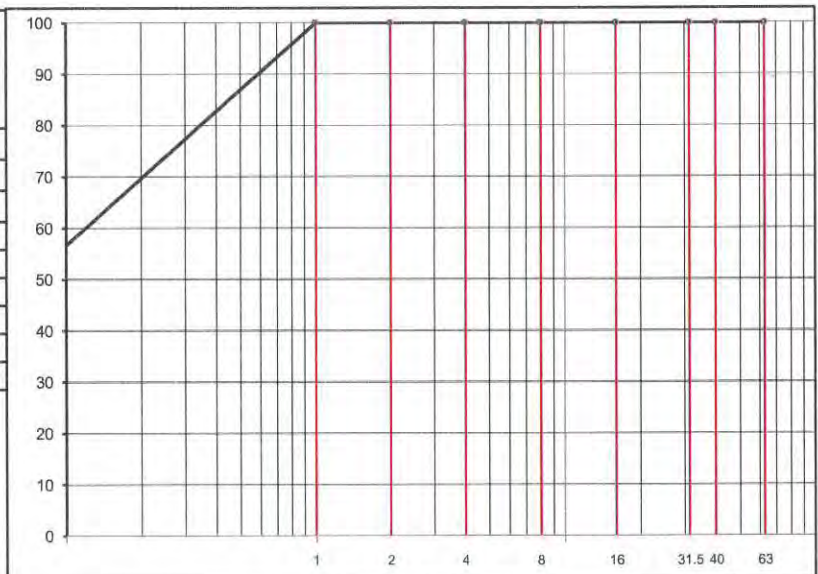
RESULTS CONTINUED:

Laboratory Dry Density & Water Content Test Result

Maximum Dry Density	1.68 Mg/m ³
Optimum Water Content	16 %
Actual Dry Density	1.68 Mg/m ³
Actual Water Content	16 %

Particle Size Distribution Test Result

BS Test Sieve Nominal Aperture	As Received Test Portion % Passing	Stable Test Portion % Passing
63.0 mm	100	100
40.0 mm	100	100
31.5 mm	100	100
16.0 mm	100	100
8.0 mm	100	100
4.0 mm	100	100
2.0 mm	100	100
1.0 mm	100	100
0.063 mm	48	48



Comments

None

Certificate
Prepared by:

Mathew Sayer
Job Coordinator

Approved by: -

Eric Goulden
Technical Manager

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Consett

Date: 11 June 2012
Test Report Ref: STR 284445

DH8 6TJ

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LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Frost Heave of Unbound Aggregate in accordance with **BS 812: Part 124: 2009 - Annex B (Use of Comparator Specimens)**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S39057
Client Ref. No:	BO39
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	16/05/2012
Date of Start of Test:	18/05/2012
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	CLAY
Target Specification:	SHW Series 800: clause 801.8

RESULTS:

Were any unrepresentative lumps present? No

Frost Heave Test Result:

Maximum Heave Observed in 96 hours (mm)		
Comparator Specimen 1	14.5	(nearest 0.5mm)
Comparator Specimen 2	13.5	(nearest 0.5mm)
Comparator Specimen 3	14.5	(nearest 0.5mm)
Mean	14.2	(nearest 0.1mm)
Test Specimen 1	19.5	(nearest 0.5mm)
Test Specimen 2	19.0	(nearest 0.5mm)
Test Specimen 3	18.5	(nearest 0.5mm)
Mean Frost Heave	19.0	(nearest 0.1mm)

In accordance with SHW Series 800: clause 801.8 the sample is classified as being
Frost Susceptible (mean frost heave > 15mm)

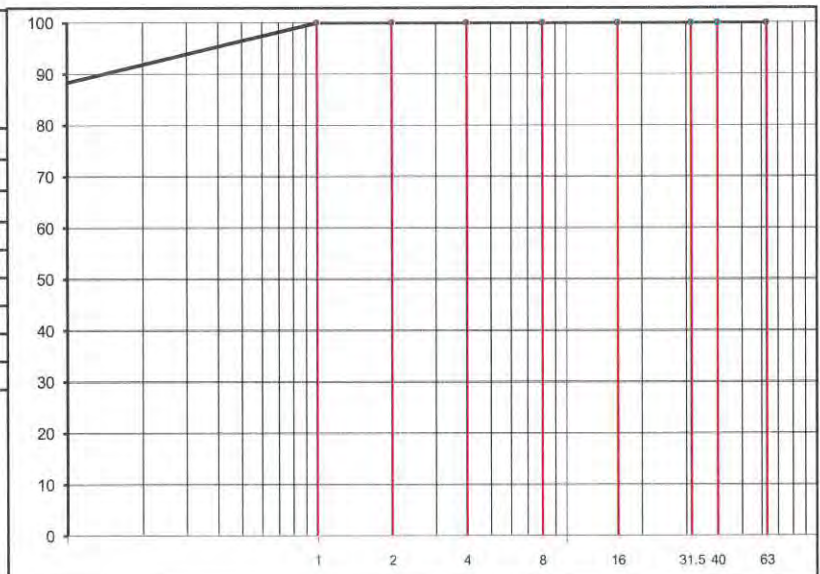
RESULTS CONTINUED:

Laboratory Dry Density & Water Content Test Result

Maximum Dry Density	1.65 Mg/m ³
Optimum Water Content	20 %
Actual Dry Density	1.65 Mg/m ³
Actual Water Content	20 %

Particle Size Distribution Test Result

BS Test Sieve Nominal Apperture	As Received Test Portion % Passing	Stable Test Portion % Passing
63.0 mm	100	100
40.0 mm	100	100
31.5 mm	100	100
16.0 mm	100	100
8.0 mm	100	100
4.0 mm	100	100
2.0 mm	100	100
1.0 mm	100	100
0.063 mm	86	86



Comments

None

Certificate
Prepared by:-

Mathew Sayer
Job Coordinator

Approved by: -

Eric Goulden
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Medomsley Road
Consett

Date: 31 May 2012
Test Report Ref: STR 284446

DH8 6TJ

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LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Frost Heave of Unbound Aggregate in accordance with **BS 812: Part 124: 2009 - Annex B (Use of Comparator Specimens)**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S39057
Client Ref. No:	TP01
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	16/05/2012
Date of Start of Test:	18/05/2012
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	CLAY
Target Specification	SHW Series 800: clause 801.8

RESULTS:

Were any unrepresentative lumps present? No

Frost Heave Test Result:

Maximum Heave Observed in 96 hours (mm)		
Comparator Specimen 1	11.0	(nearest 0.5mm)
Comparator Specimen 2	12.5	(nearest 0.5mm)
Comparator Specimen 3	13.0	(nearest 0.5mm)
Mean	12.2	(nearest 0.1mm)
Test Specimen 1	20.5	(nearest 0.5mm)
Test Specimen 2	20.5	(nearest 0.5mm)
Test Specimen 3	16.5	(nearest 0.5mm)
Mean Frost Heave	19.2	(nearest 0.1mm)

In accordance with SHW Series 800: clause 801.8 the sample is classified as being
Frost Susceptible (mean frost heave > 15mm)

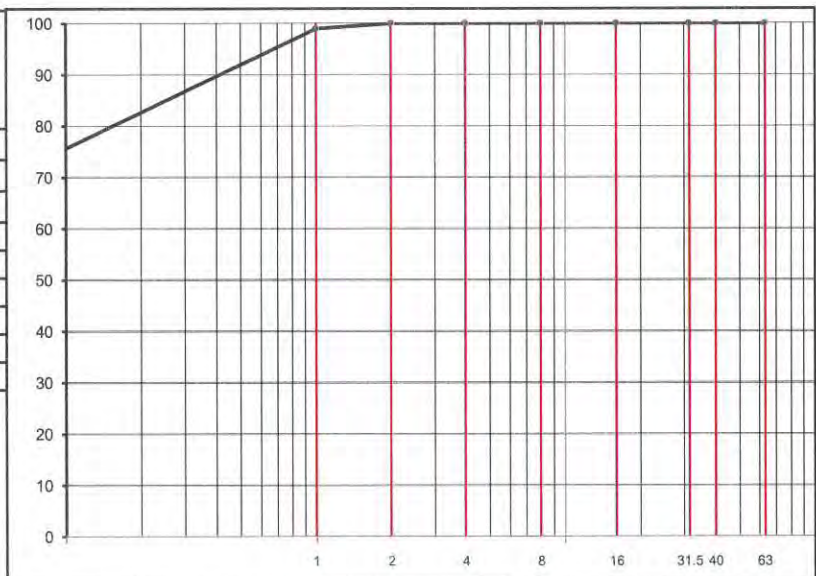
RESULTS CONTINUED:

Laboratory Dry Density & Water Content Test Result

Maximum Dry Density	1.63 Mg/m3
Optimum Water Content	17 %
Actual Dry Density	1.63 Mg/m3
Actual Water Content	17 %

Particle Size Distribution Test Result

BS Test Sieve Nominal Apperture	As Received Test Portion % Passing	Stable Test Portion % Passing
63.0 mm	100	100
40.0 mm	100	100
31.5 mm	100	100
16.0 mm	100	100
8.0 mm	100	100
4.0 mm	100	100
2.0 mm	100	100
1.0 mm	99	99
0.063 mm	71	71



Comments

None

Certificate
Prepared by:-

Mathew Sayer
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Approved by:-

Eric Goulden
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Consett

Date: 11 June 2012
Test Report Ref: STR 284447

DH8 6TJ

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LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Frost Heave of Unbound Aggregate in accordance with **BS 812: Part 124: 2009 - Annex B (Use of Comparator Specimens)**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S39057
Client Ref. No:	TP02
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	16/05/2012
Date of Start of Test:	18/05/2012
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	CLAY
Target Specification	SHW Series 800: clause 801.8

RESULTS:

Were any unrepresentative lumps present? No

Frost Heave Test Result:

Maximum Heave Observed in 96 hours (mm)		
Comparator Specimen 1	14.5	(nearest 0.5mm)
Comparator Specimen 2	13.5	(nearest 0.5mm)
Comparator Specimen 3	14.5	(nearest 0.5mm)
Mean	14.2	(nearest 0.1mm)
Test Specimen 1	19.0	(nearest 0.5mm)
Test Specimen 2	20.5	(nearest 0.5mm)
Test Specimen 3	23.0	(nearest 0.5mm)
Mean Frost Heave	20.8	(nearest 0.1mm)

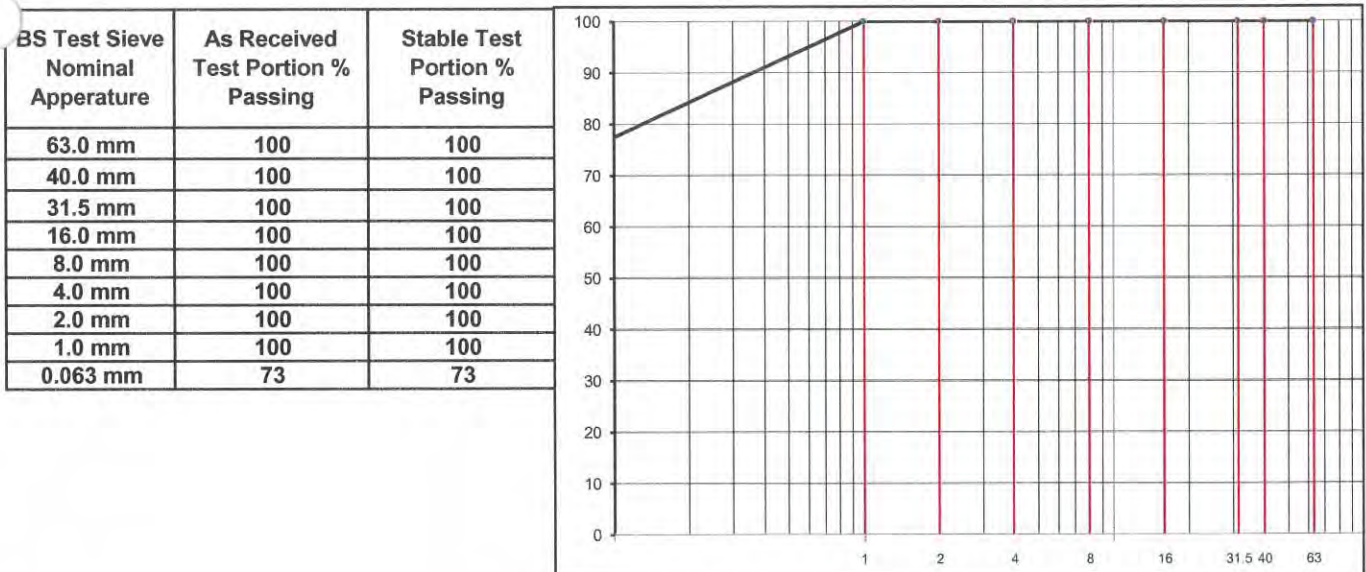
In accordance with SHW Series 800: clause 801.8 the sample is classified as being
Frost Susceptible (mean frost heave > 15mm)

RESULTS CONTINUED:

Laboratory Dry Density & Water Content Test Result

Maximum Dry Density	1.66 Mg/m3
Optimum Water Content	17 %
Actual Dry Density	1.66 Mg/m3
Actual Water Content	17 %

Particle Size Distribution Test Result



Comments

None

Certificate
Prepared by:

Mathew Sayer
Job Coordinator

Approved by: -

Eric Goulden
Technical Manager

Chemtech Environmental
Unit 25a-25b Number One Industrial Estate
Medomsley Road
Consett

Date: 11 June 2012
Test Report Ref: STR 284448

DH8 6TJ

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LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Frost Heave of Unbound Aggregate in accordance with **BS 812: Part 124: 2009 - Annex B (Use of Comparator Specimens)**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S39057
Client Ref. No:	TP04
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	16/05/2012
Date of Start of Test:	18/05/2012
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	CLAY
Target Specification	SHW Series 800: clause 801.8

RESULTS:

Were any unrepresentative lumps present? No

Frost Heave Test Result:

Maximum Heave Observed in 96 hours (mm)		
Comparator Specimen 1	13.5	(nearest 0.5mm)
Comparator Specimen 2	15.0	(nearest 0.5mm)
Comparator Specimen 3	14.0	(nearest 0.5mm)
Mean	14.2	(nearest 0.1mm)
Test Specimen 1	22.0	(nearest 0.5mm)
Test Specimen 2	22.0	(nearest 0.5mm)
Test Specimen 3	19.0	(nearest 0.5mm)
Mean Frost Heave	21.0	(nearest 0.1mm)

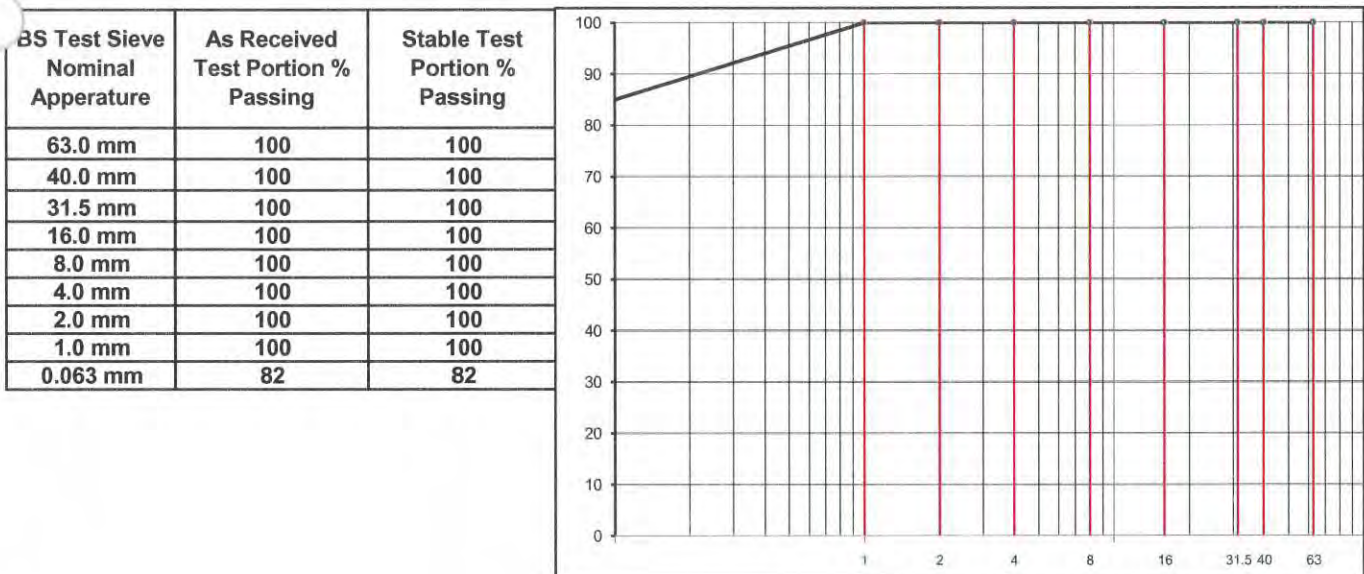
In accordance with SHW Series 800: clause 801.8 the sample is classified as being
Frost Susceptible (mean frost heave > 15mm)

RESULTS CONTINUED:

Laboratory Dry Density & Water Content Test Result

Maximum Dry Density	1.65 Mg/m3
Optimum Water Content	18.5 %
Actual Dry Density	1.65 Mg/m3
Actual Water Content	18.4 %

Particle Size Distribution Test Result



Comments

None

Certificate
Prepared by:-

Mathew Sayer
Job Coordinator

Approved by: -

Eric Goulden
Technical Manager

Chemtech Environmental
Unit 25a-25b Number One Industrial Estate
Medomsley Road
Consett

Date: 31 May 2012
Test Report Ref: STR 284449

DH8 6TJ

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LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Frost Heave of Unbound Aggregate in accordance with **BS 812: Part 124: 2009 - Annex B (Use of Comparator Specimens)**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S39057
Client Ref. No:	TP05
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	16/05/2012
Date of Start of Test:	18/05/2012
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	CLAY
Target Specification	SHW Series 800: clause 801.8

RESULTS:

Were any unrepresentative lumps present? No

Frost Heave Test Result:

Maximum Heave Observed in 96 hours (mm)		
Comparator Specimen 1	11.0	(nearest 0.5mm)
Comparator Specimen 2	12.5	(nearest 0.5mm)
Comparator Specimen 3	13.0	(nearest 0.5mm)
Mean	12.2	(nearest 0.1mm)
Test Specimen 1	19.5	(nearest 0.5mm)
Test Specimen 2	19.0	(nearest 0.5mm)
Test Specimen 3	20.0	(nearest 0.5mm)
Mean Frost Heave	19.5	(nearest 0.1mm)

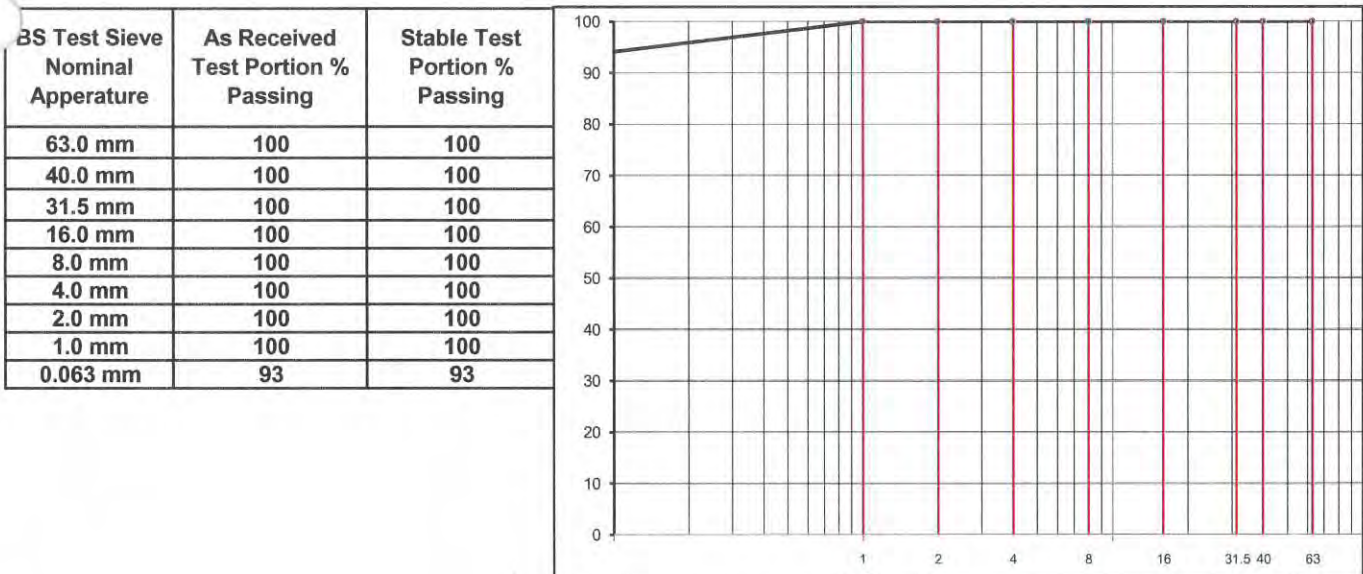
In accordance with SHW Series 800: clause 801.8 the sample is classified as being
Frost Susceptible (mean frost heave > 15mm)

RESULTS CONTINUED:

Laboratory Dry Density & Water Content Test Result

Maximum Dry Density	1.67 Mg/m ³
Optimum Water Content	17 %
Actual Dry Density	1.67 Mg/m ³
Actual Water Content	17 %

Particle Size Distribution Test Result



Comments

None

Certificate
Prepared by:-

Mathew Sayer
Job Coordinator

Approved by:-

Eric Goulden
Technical Manager

Chemtech Environmental
Unit 25a-25b Number One Industrial Estate
Medomsley Road
Consett

Date: 11 June 2012
Test Report Ref: STR 284450

DH8 6TJ

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LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Frost Heave of Unbound Aggregate in accordance with **BS 812: Part 124: 2009 - Annex B (Use of Comparator Specimens)**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S39057
Client Ref. No:	TP07
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	16/05/2012
Date of Start of Test:	18/05/2012
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	CLAY
Target Specification:	SHW Series 800: clause 801.8

RESULTS:

Were any unrepresentative lumps present? No

Frost Heave Test Result:

Maximum Heave Observed in 96 hours (mm)		
Comparator Specimen 1	13.5	(nearest 0.5mm)
Comparator Specimen 2	15.0	(nearest 0.5mm)
Comparator Specimen 3	14.0	(nearest 0.5mm)
Mean	14.2	(nearest 0.1mm)
Test Specimen 1	20.0	(nearest 0.5mm)
Test Specimen 2	20.5	(nearest 0.5mm)
Test Specimen 3	24.0	(nearest 0.5mm)
Mean Frost Heave	21.5	(nearest 0.1mm)

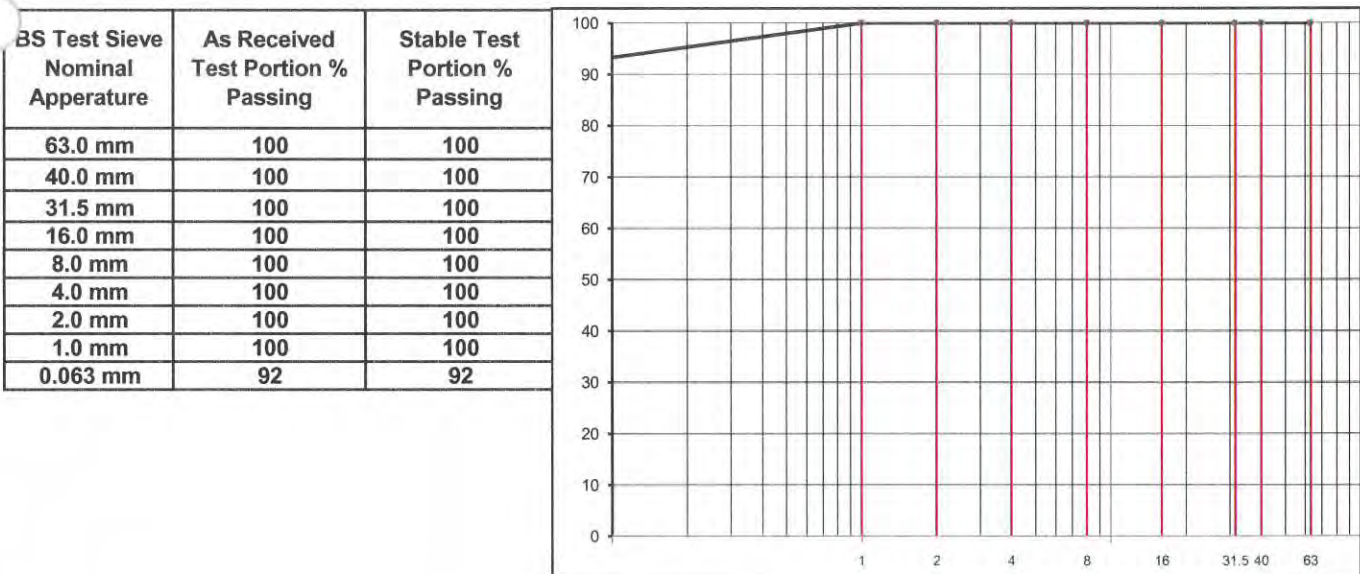
In accordance with SHW Series 800: clause 801.8 the sample is classified as being
Frost Susceptible (mean frost heave > 15mm)

RESULTS CONTINUED:

Laboratory Dry Density & Water Content Test Result

Maximum Dry Density	1.67 Mg/m ³
Optimum Water Content	18.5 %
Actual Dry Density	1.67 Mg/m ³
Actual Water Content	18.6 %

Particle Size Distribution Test Result



Comments

None

Certificate
Prepared by:-

Mathew Sayer
Job Coordinator

Approved by: -

Eric Goulden
Technical Manager

Chemtech Environmental
Unit 25a-25b Number One Industrial Estate
Medomsley Road
Consett

Date: 11 June 2012
Test Report Ref: STR 284451

DH8 6TJ

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LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Frost Heave of Unbound Aggregate in accordance with **BS 812: Part 124: 2009 - Annex B (Use of Comparator Specimens)**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S39057
Client Ref. No:	TP08
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	16/05/2012
Date of Start of Test:	18/05/2012
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	CLAY
Target Specification	SHW Series 800: clause 801.8

RESULTS:

Were any unrepresentative lumps present? No

Frost Heave Test Result:

Maximum Heave Observed in 96 hours (mm)		
Comparator Specimen 1	12.5	(nearest 0.5mm)
Comparator Specimen 2	11.5	(nearest 0.5mm)
Comparator Specimen 3	12.5	(nearest 0.5mm)
Mean	12.2	(nearest 0.1mm)
Test Specimen 1	21.0	(nearest 0.5mm)
Test Specimen 2	24.0	(nearest 0.5mm)
Test Specimen 3	23.0	(nearest 0.5mm)
Mean Frost Heave	22.7	(nearest 0.1mm)

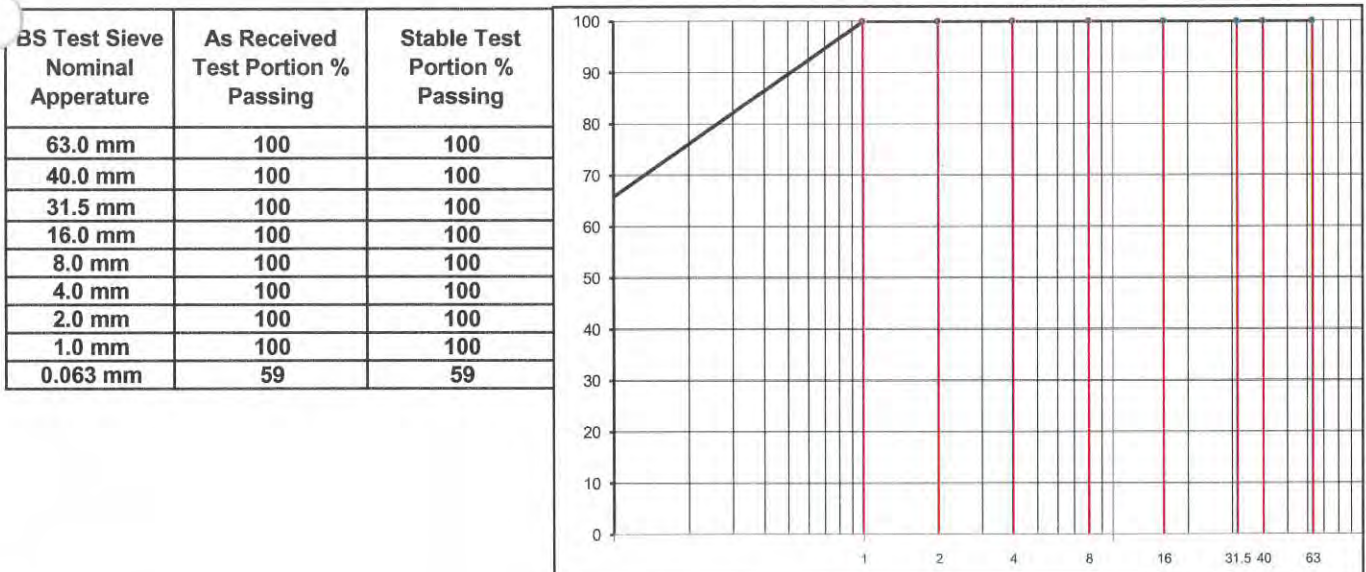
In accordance with SHW Series 800: clause 801.8 the sample is classified as being
Frost Susceptible (mean frost heave > 15mm)

RESULTS CONTINUED:

Laboratory Dry Density & Water Content Test Result

Maximum Dry Density	1.64 Mg/m3
Optimum Water Content	17 %
Actual Dry Density	1.64 Mg/m3
Actual Water Content	17 %

Particle Size Distribution Test Result



Comments

None

Certificate
Prepared by:-

Mathew Sayer
Job Coordinator

Approved by: -

Eric Goulden
Technical Manager

Chemtech Environmental
Unit 25a-25b Number One Industrial Estate
Medomsley Road
Consett

Date: 31 May 2012
Test Report Ref: STR 284452

DH8 6TJ

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LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Frost Heave of Unbound Aggregate in accordance with **BS 812: Part 124: 2009 - Annex B (Use of Comparator Specimens)**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S39057
Client Ref. No:	TP10
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	16/05/2012
Date of Start of Test:	18/05/2012
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	CLAY
Target Specification	SHW Series 800: clause 801.8

RESULTS:

Were any unrepresentative lumps present? No

Frost Heave Test Result:

Maximum Heave Observed in 96 hours (mm)		
Comparator Specimen 1	12.0	(nearest 0.5mm)
Comparator Specimen 2	12.5	(nearest 0.5mm)
Comparator Specimen 3	13.0	(nearest 0.5mm)
Mean	12.5	(nearest 0.1mm)
Test Specimen 1	17.0	(nearest 0.5mm)
Test Specimen 2	17.0	(nearest 0.5mm)
Test Specimen 3	19.5	(nearest 0.5mm)
Mean Frost Heave	17.8	(nearest 0.1mm)

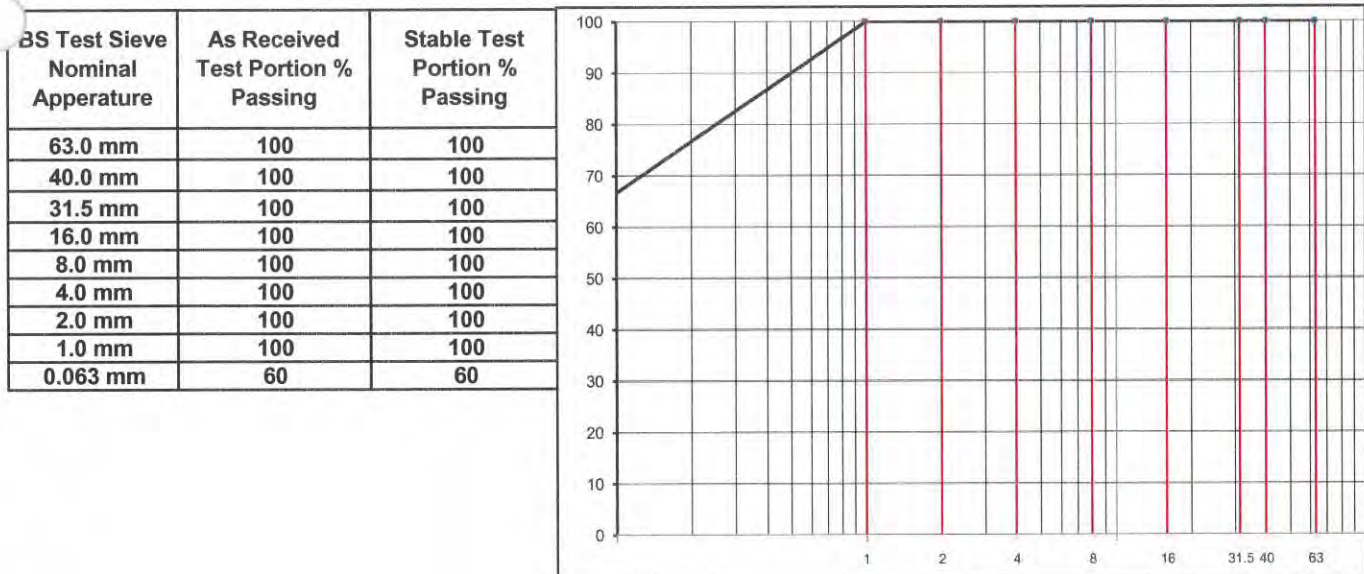
In accordance with SHW Series 800: clause 801.8 the sample is classified as being
Frost Susceptible (mean frost heave > 15mm)

RESULTS CONTINUED:

Laboratory Dry Density & Water Content Test Result

Maximum Dry Density	1.61 Mg/m3
Optimum Water Content	16 %
Actual Dry Density	1.61 Mg/m3
Actual Water Content	16 %

Particle Size Distribution Test Result



Comments

None

Certificate
Prepared by:

Mathew Sayer
Job Coordinator

Approved by: -

Eric Goulden
Technical Manager

Chemtech Environmental
Unit 25a-25b Number One Industrial Estate
Medomsley Road
Consett

Date: 11 June 2012
Test Report Ref: STR 284453

DH8 6TJ

Page 1 of 2

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Frost Heave of Unbound Aggregate in accordance with **BS 812: Part 124: 2009 - Annex B (Use of Comparator Specimens)**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S39057
Client Ref. No:	TP11
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	16/05/2012
Date of Start of Test:	18/05/2012
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	CLAY
Target Specification	SHW Series 800: clause 801.8

RESULTS:

Were any unrepresentative lumps present? No

Frost Heave Test Result:

Maximum Heave Observed in 96 hours (mm)		
Comparator Specimen 1	22.5	(nearest 0.5mm)
Comparator Specimen 2	25.0	(nearest 0.5mm)
Comparator Specimen 3	24.5	(nearest 0.5mm)
Mean	24.0	(nearest 0.1mm)
Test Specimen 1	12.5	(nearest 0.5mm)
Test Specimen 2	11.5	(nearest 0.5mm)
Test Specimen 3	12.5	(nearest 0.5mm)
Mean Frost Heave	12.2	(nearest 0.1mm)

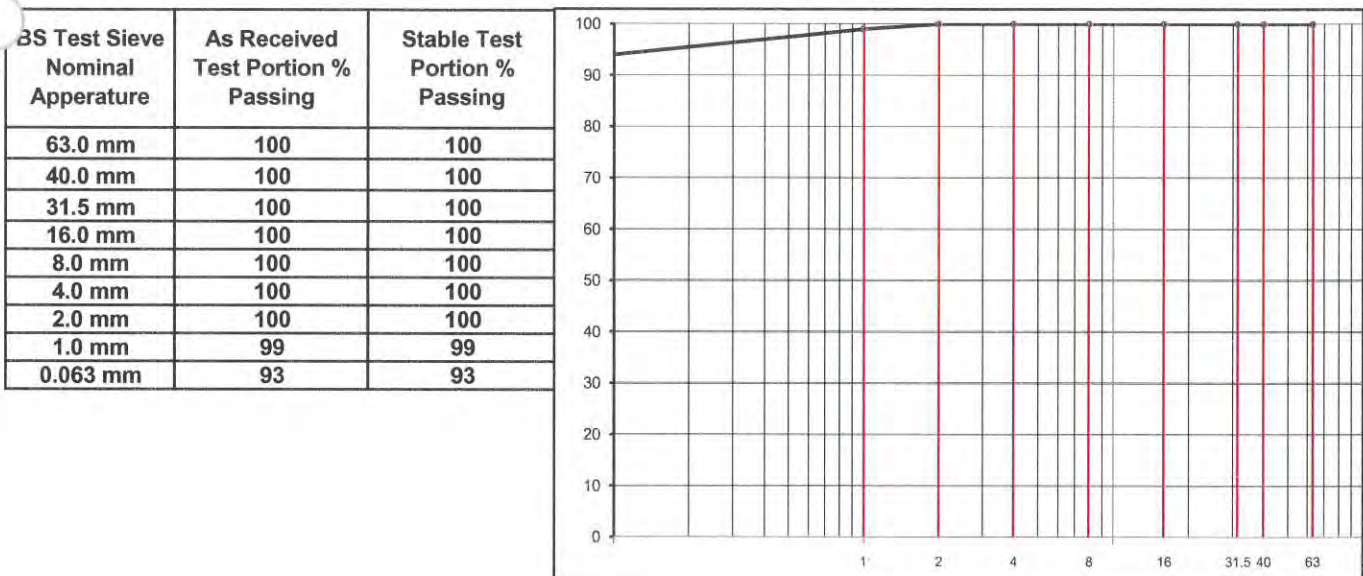
In accordance with SHW Series 800: clause 801.8 the sample is classified as being
Non Frost Susceptible (mean frost heave \leq 15mm)

RESULTS CONTINUED:

Laboratory Dry Density & Water Content Test Result

Maximum Dry Density	1.66 Mg/m3
Optimum Water Content	23 %
Actual Dry Density	1.66 Mg/m3
Actual Water Content	23.1 %

Particle Size Distribution Test Result



Comments

None

Certificate
Prepared by:-

Mathew Sayer
Job Coordinator

Approved by: -

Eric Goulden
Technical Manager

Chemtech Environmental
Unit 25a-25b Number One Industrial Estate
Medomsley Road
Consett

Date: 31 May 2012
Test Report Ref: STR 284454

DH8 6TJ

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LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Frost Heave of Unbound Aggregate in accordance with **BS 812: Part 124: 2009 - Annex B (Use of Comparator Specimens)**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S39057
Client Ref. No:	TP13
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	16/05/2012
Date of Start of Test:	18/05/2012
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	CLAY
Target Specification	SHW Series 800: clause 801.8

RESULTS:

Were any unrepresentative lumps present? No

Frost Heave Test Result:

Maximum Heave Observed in 96 hours (mm)		
Comparator Specimen 1	12.0	(nearest 0.5mm)
Comparator Specimen 2	12.5	(nearest 0.5mm)
Comparator Specimen 3	13.0	(nearest 0.5mm)
Mean	12.5	(nearest 0.1mm)
Test Specimen 1	19.0	(nearest 0.5mm)
Test Specimen 2	17.5	(nearest 0.5mm)
Test Specimen 3	20.0	(nearest 0.5mm)
Mean Frost Heave	18.8	(nearest 0.1mm)

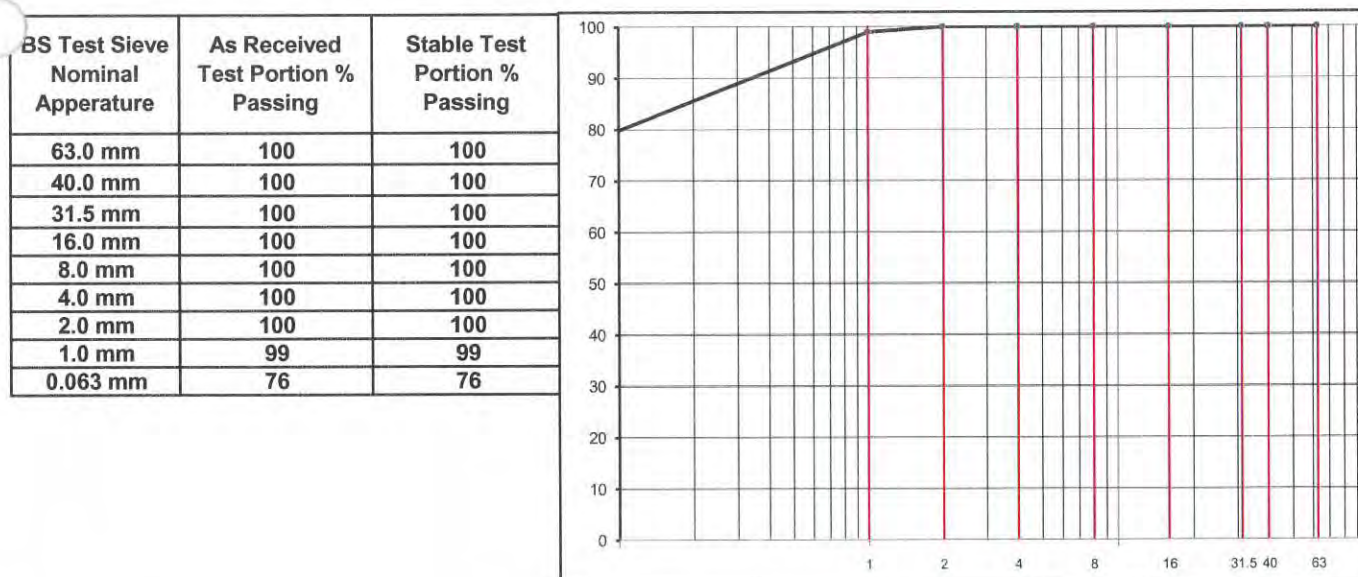
In accordance with SHW Series 800: clause 801.8 the sample is classified as being
Frost Susceptible (mean frost heave > 15mm)

RESULTS CONTINUED:

Laboratory Dry Density & Water Content Test Result

Maximum Dry Density	1.68 Mg/m3
Optimum Water Content	16 %
Actual Dry Density	1.68 Mg/m3
Actual Water Content	16 %

Particle Size Distribution Test Result



Comments

None

Certificate
Prepared by:

Mathew Sayer
Job Coordinator

Approved by: -

Eric Goulden
Technical Manager

Chemtech Environmental
Unit 25a-25b Number One Industrial Estate
Medomsley Road
Consett

Date: 11 June 2012
Test Report Ref: STR 284455

DH8 6TJ

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LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Frost Heave of Unbound Aggregate in accordance with **BS 812: Part 124: 2009 - Annex B (Use of Comparator Specimens)**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S39057
Client Ref. No:	TP14
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	16/05/2012
Date of Start of Test:	18/05/2012
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	CLAY
Target Specification	SHW Series 800: clause 801.8

RESULTS:

Were any unrepresentative lumps present? No

Frost Heave Test Result:

Maximum Heave Observed in 96 hours (mm)		
Comparator Specimen 1	11.5	(nearest 0.5mm)
Comparator Specimen 2	11.0	(nearest 0.5mm)
Comparator Specimen 3	12.5	(nearest 0.5mm)
Mean	11.7	(nearest 0.1mm)
Test Specimen 1	21.0	(nearest 0.5mm)
Test Specimen 2	24.0	(nearest 0.5mm)
Test Specimen 3	25.0	(nearest 0.5mm)
Mean Frost Heave	23.3	(nearest 0.1mm)

In accordance with SHW Series 800: clause 801.8 the sample is classified as being
Frost Susceptible (mean frost heave > 15mm)

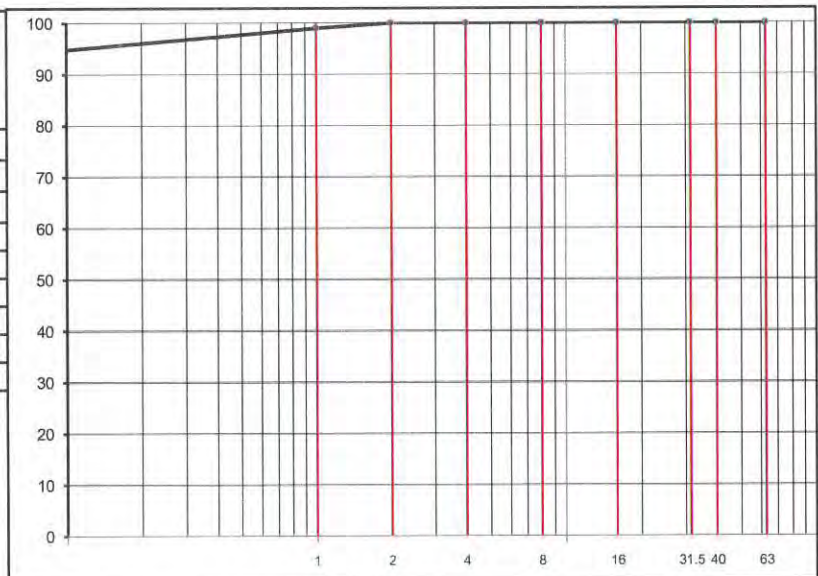
RESULTS CONTINUED:

Laboratory Dry Density & Water Content Test Result

Maximum Dry Density	1.56 Mg/m3
Optimum Water Content	23 %
Actual Dry Density	1.56 Mg/m3
Actual Water Content	23 %

Particle Size Distribution Test Result

BS Test Sieve Nominal Apperture	As Received Test Portion % Passing	Stable Test Portion % Passing
63.0 mm	100	100
40.0 mm	100	100
31.5 mm	100	100
16.0 mm	100	100
8.0 mm	100	100
4.0 mm	100	100
2.0 mm	100	100
1.0 mm	99	99
0.063 mm	94	94



Comments

None

Certificate
Prepared by:-

Mathew Sayer
Job Coordinator

Approved by: -

Eric Goulden
Technical Manager

metech Environmental
25a-25b Number One Industrial Estate
Domsley Road
Leamington
CV32 3ET

Date: 20 June 2012
Test Report Ref: STF0000044

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LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Frost Heave of Unbound Aggregate in accordance with **BS 812: Part 124: 2009 - Annex B (Use of Comparator Specimens)**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S39057
Client Ref. No:	TR117
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	16/05/2012
Date of Start of Test:	18/05/2012
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	CLAY
Test Specification	SHW Series 800: clause 801.8

RESULTS:

Are there any unrepresentative lumps present? **No**

Test Heave Test Result:

Maximum Heave Observed in 96 hours (mm)		
Comparator Specimen 1	13.0	(nearest 0.5mm)
Comparator Specimen 2	11.0	(nearest 0.5mm)
Comparator Specimen 3	12.5	(nearest 0.5mm)
Mean	12.2	(nearest 0.1mm)
Test Specimen 1	19.5	(nearest 0.5mm)
Test Specimen 2	21.0	(nearest 0.5mm)
Test Specimen 3	16.5	(nearest 0.5mm)
Mean Frost Heave	19.0	(nearest 0.1mm)

In accordance with SHW Series 800: clause 801.8 the sample is classified as being **Not Susceptible (mean frost heave > 15mm)**

RESULTS CONTINUED:**Laboratory Dry Density & Water Content Test Result**

Maximum Dry Density	2.23 Mg/m ³
Maximum Water Content	18 %
Optimum Dry Density	2.23 Mg/m ³
Optimum Water Content	18 %

Particle Size Distribution Test Result

Test Sieve Nominal Aperture	As Received Test Portion % Passing	Stable Test Portion % Passing
3.0 mm	100	100
7.5 mm	100	100
15 mm	100	100
30 mm	100	100
60 mm	100	100
75 mm	100	100
106 mm	100	100
150 mm	100	100
200 mm	100	100
250 mm	100	100
300 mm	100	100
350 mm	100	100
425 mm	100	100
600 mm	100	100
750 mm	100	100
1000 mm	100	100
1500 mm	100	100
2000 mm	100	100
2500 mm	100	100
3000 mm	100	100
3500 mm	100	100
4000 mm	100	100
4500 mm	100	100
5000 mm	100	100
5600 mm	100	100
6300 mm	100	100
7500 mm	100	100
9000 mm	100	100
10600 mm	100	100
12500 mm	100	100
15000 mm	100	100
18000 mm	100	100
21000 mm	100	100
25000 mm	100	100
30000 mm	100	100
35000 mm	100	100
40000 mm	100	100
45000 mm	100	100
50000 mm	100	100
56000 mm	100	100
63000 mm	100	100
75000 mm	100	100
90000 mm	100	100
106000 mm	100	100
125000 mm	100	100
150000 mm	100	100
180000 mm	100	100
210000 mm	100	100
250000 mm	100	100
300000 mm	100	100
350000 mm	100	100
400000 mm	100	100
450000 mm	100	100
500000 mm	100	100
560000 mm	100	100
630000 mm	100	100
750000 mm	100	100
900000 mm	100	100
1060000 mm	100	100
1250000 mm	100	100
1500000 mm	100	100
1800000 mm	100	100
2100000 mm	100	100
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5600000 mm	100	100
6300000 mm	100	100
7500000 mm	100	100
9000000 mm	100	100
10600000 mm	100	100
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750000000 mm	100	100
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5600000000000000000000 mm	100	100

metech Environmental
 25a-25b Number One Industrial Estate
 omsley Road
 sett

Date: 20 June 2014
 Test Report Ref: STF 0044

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Frost Heave of Unbound Aggregate in accordance with **BS 812: Part 124: 2009 - Annex B (Use of Comparator Specimens)**

SAMPLE DETAILS:

ificate of sampling received:	No
oratory Ref. No:	S39057
nt Ref. No:	TR118
and Time of Sampling:	Unknown
of Receipt at Lab:	16/05/2012
of Start of Test:	18/05/2012
pling Location:	Unknown
ie of Source:	Unknown
od of Sampling:	Unknown
pled By:	Client
erial Description:	CLAY
et Specification	SHW Series 800: clause 801.8

RESULTS:

Are there any unrepresentative lumps present? No

Frost Heave Test Result:

Maximum Heave Observed in 96 hours (mm)		
Comparator Specimen 1	13.0	(nearest 0.5mm)
Comparator Specimen 2	11.0	(nearest 0.5mm)
Comparator Specimen 3	12.5	(nearest 0.5mm)
Mean	12.2	(nearest 0.1mm)
Test Specimen 1	20.0	(nearest 0.5mm)
Test Specimen 2	18.0	(nearest 0.5mm)
Test Specimen 3	19.5	(nearest 0.5mm)
Mean Frost Heave	19.2	(nearest 0.1mm)

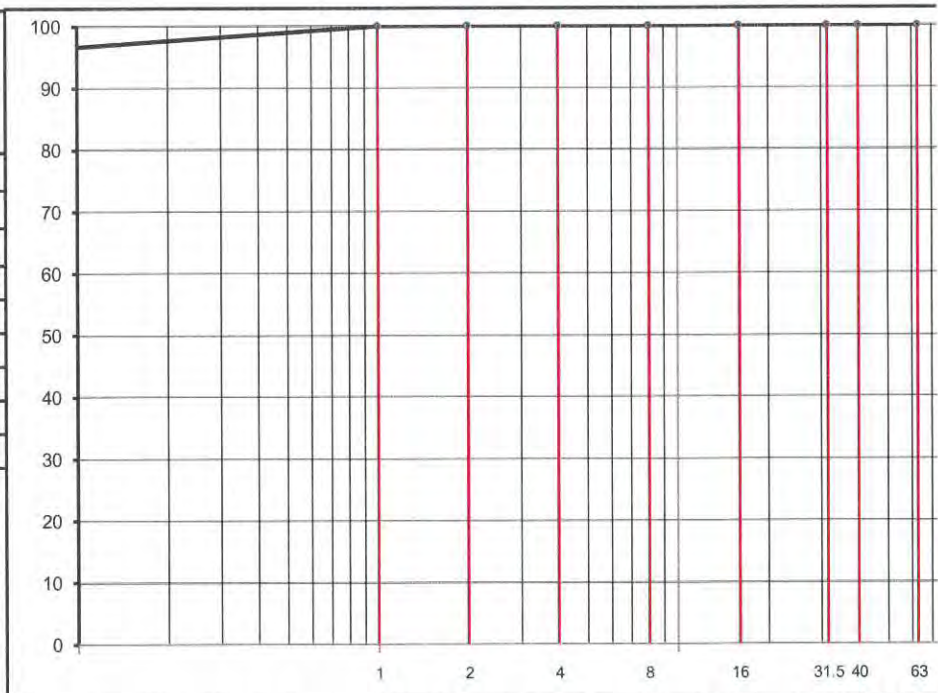
In accordance with SHW Series 800: clause 801.8 the sample is classified as being **Not Susceptible (mean frost heave > 15mm)**

RESULTS CONTINUED:**Laboratory Dry Density & Water Content Test Result**

Maximum Dry Density	2.31 Mg/m ³
Maximum Water Content	16 %
Optimum Dry Density	2.31 Mg/m ³
Optimum Water Content	16 %

Particle Size Distribution Test Result

Test Sieve Nominal Aperture	As Received Test Portion % Passing	Stable Test Portion % Passing
3.0 mm	100	100
4.0 mm	100	100
5.0 mm	100	100
6.0 mm	100	100
7.5 mm	100	100
10 mm	100	100
15 mm	100	100
20 mm	100	100
25 mm	100	100
30 mm	100	100
37.5 mm	96	96

**Comments**

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ificate
pared by:-

Mathew Sayer
Job Coordinator

Approved by: -

Eric Goulden
Technical Manag

One Dimensional Consolidation Properties

BS 1377: Part 5: 1990

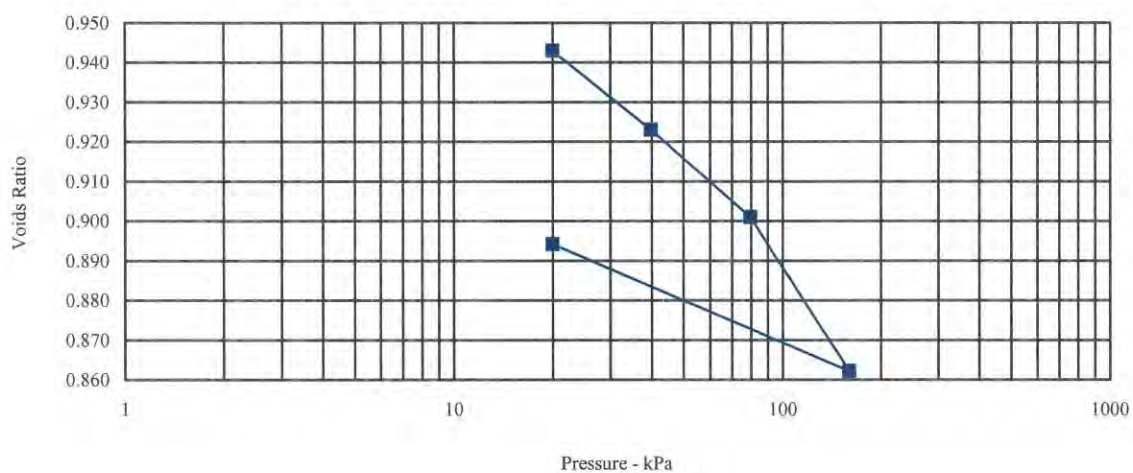
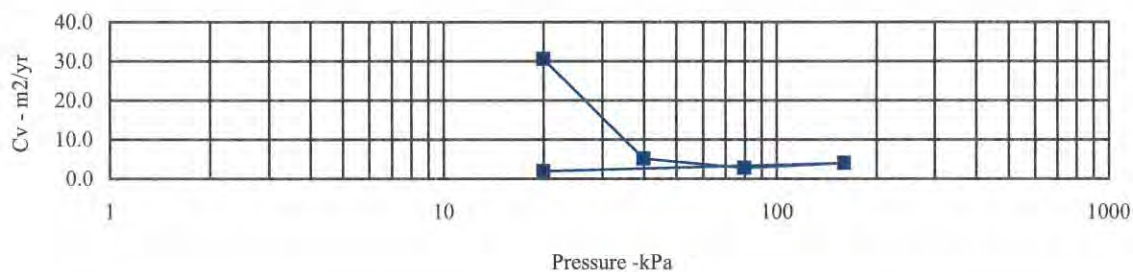
Hole Number: BH10

Depth (m): 1.00

Sample Number: 2

Sample Type: U

Initial Conditions		Pressure Range		Mv	Cv	Specimen location	
Moisture Content (%):	35	kPa		m2/MN	m2/yr	within tube:	Top
Bulk Density (Mg/m3):	1.83	0	-	20	0.198	30.527	
Dry Density (Mg/m3):	1.36	20	-	40	0.514	5.092	t90
Voids Ratio:	0.9506	40	-	80	0.286	2.720	
Degree of saturation:	96.5	80	-	160	0.255	3.960	20
Height (mm):	19.94	160	-	20	0.123	1.915	
Diameter (mm)	75.2	Remarks: See summary of soils description.					
Particle Density (Mg/m3):	2.65						
Assumed							



Checked by	Date	Approved by	Date
	19/06/12		19/06/12



CHERRY COB SANDS.

Contract No.

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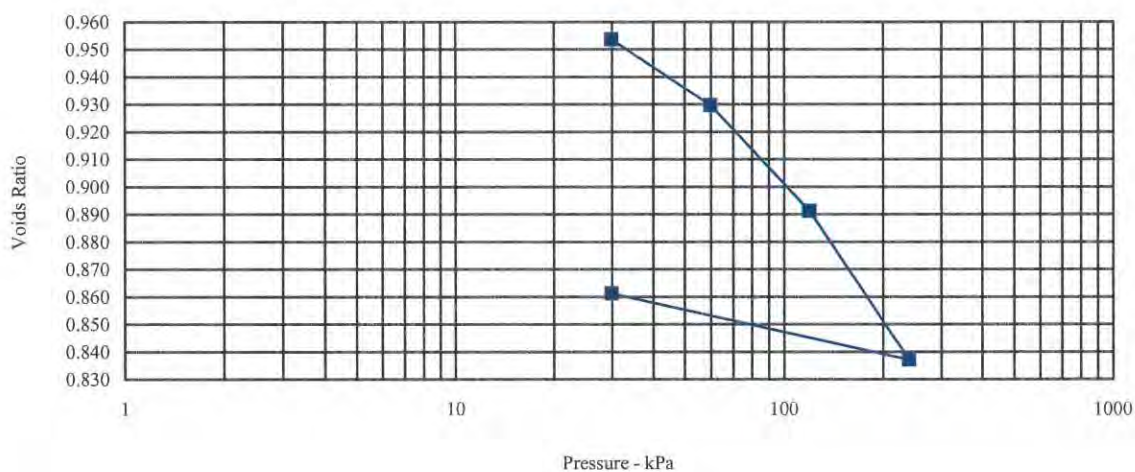
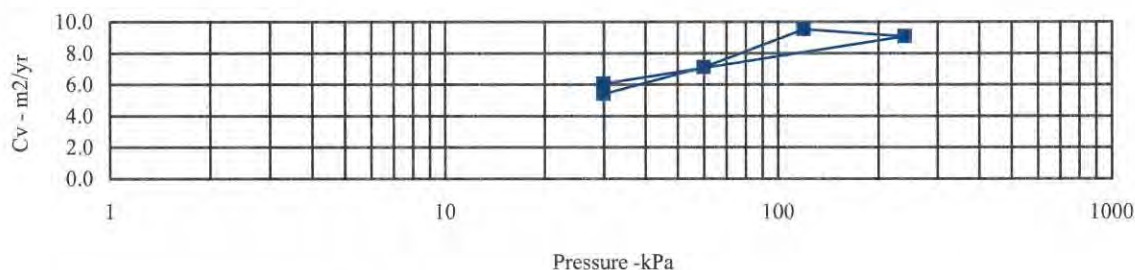
Hole Number: BH10

Depth (m): 1.45

Sample Number: 2

Sample Type: U

Initial Conditions		Pressure Range		Mv	Cv	Specimen location	
Moisture Content (%):	37	kPa		m2/MN	m2/yr	within tube:	Top
Bulk Density (Mg/m3):	1.82	0	- 30	0.760	5.393	Method used to	
Dry Density (Mg/m3):	1.33	30	- 60	0.410	7.099	determine CV:	t90
Voids Ratio:	0.9992	60	- 120	0.333	9.509	Nominal temperature	
Degree of saturation:	98.3	120	- 240	0.238	9.054	during test ' C:	20
Height (mm):	19.78	240	- 30	0.062	6.051	Remarks:	
Diameter (mm)	75.34	See summary of soils description.					
Particle Density (Mg/m3):	2.65						
Assumed							



Checked by	Date	Approved by	Date
	19/06/12		19/06/12



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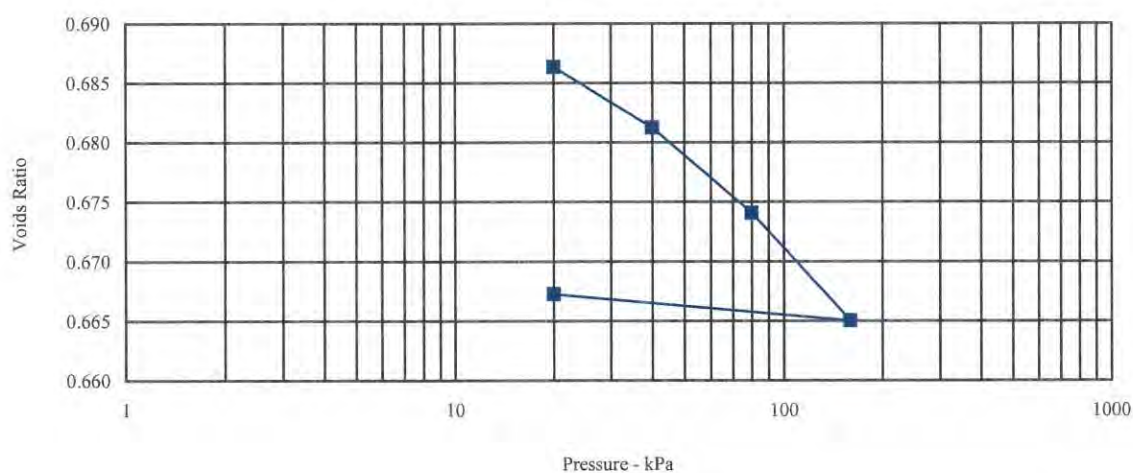
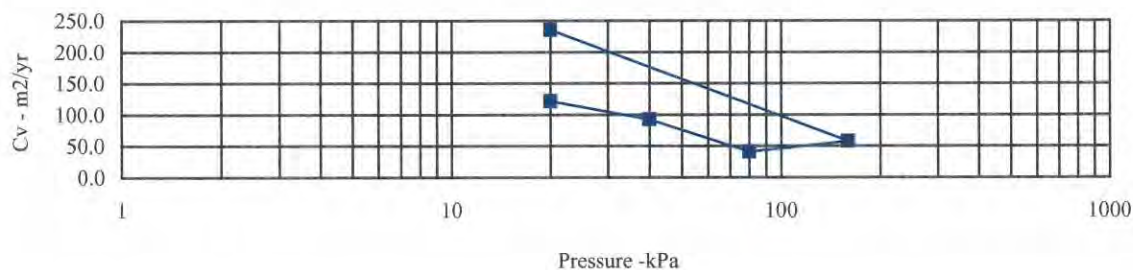
Hole Number: BH11

Depth (m): 1.00

Sample Number: 3

Sample Type: U

Initial Conditions		Pressure Range		Mv	Cv	Specimen location	
Moisture Content (%):	25	kPa		m2/MN	m2/yr	within tube:	Top
Bulk Density (Mg/m3):	1.95	0	-	20	0.369	121.325	
Dry Density (Mg/m3):	1.56	20	-	40	0.152	91.963	t90
Voids Ratio:	0.6989	40	-	80	0.107	40.479	
Degree of saturation:	95.0	80	-	160	0.068	57.424	20
Height (mm):	19.91	160	-	20	0.010	235.113	
Diameter (mm)	75.19	Remarks: See summary of soils description.					
Particle Density (Mg/m3):	2.65						
Assumed							



Checked by	Date	Approved by	Date
	19/06/12		19/06/12



CHERRY COB SANDS.

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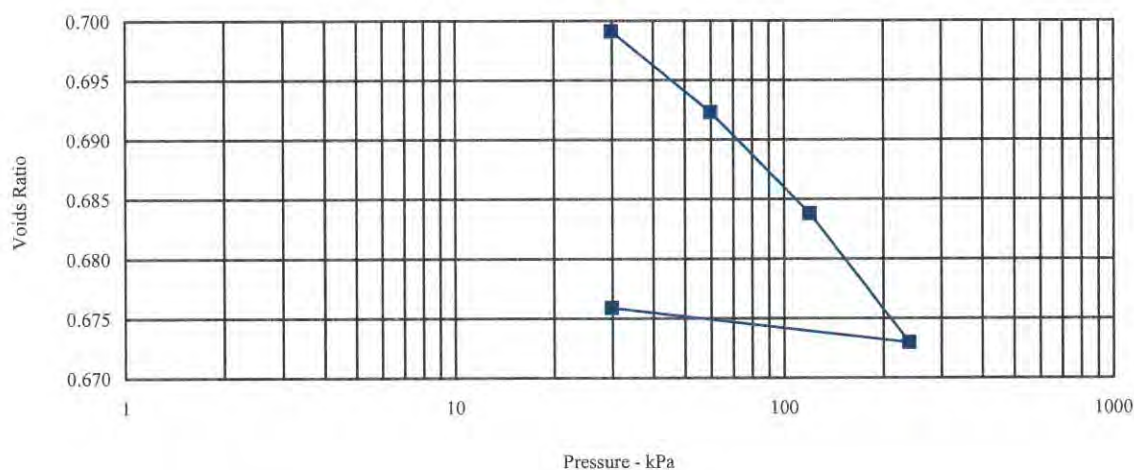
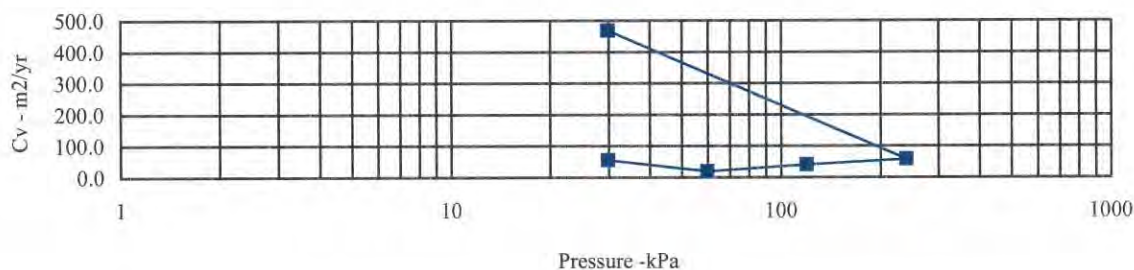
Hole Number: BH11

Depth (m): 1.45

Sample Number: 3

Sample Type: U

Initial Conditions		Pressure Range		Mv	Cv	Specimen location	
Moisture Content (%):	26	kPa		m2/MN	m2/yr	within tube:	Top
Bulk Density (Mg/m3):	1.95	0	- 30	0.341	54.039	Method used to	
Dry Density (Mg/m3):	1.54	30	- 60	0.133	18.054	determine CV:	t90
Voids Ratio:	0.7166	60	- 120	0.084	40.341	Nominal temperature	
Degree of saturation:	96.7	120	- 240	0.054	57.125	during test ' C:	20
Height (mm):	19.96	240	- 30	0.008	467.485	Remarks:	
Diameter (mm)	75.21	See summary of soils description.					
Particle Density (Mg/m3):	2.65						
Assumed							



Checked by	Date	Approved by	Date
	19/06/12		19/06/12



CHERRY COB SANDS.

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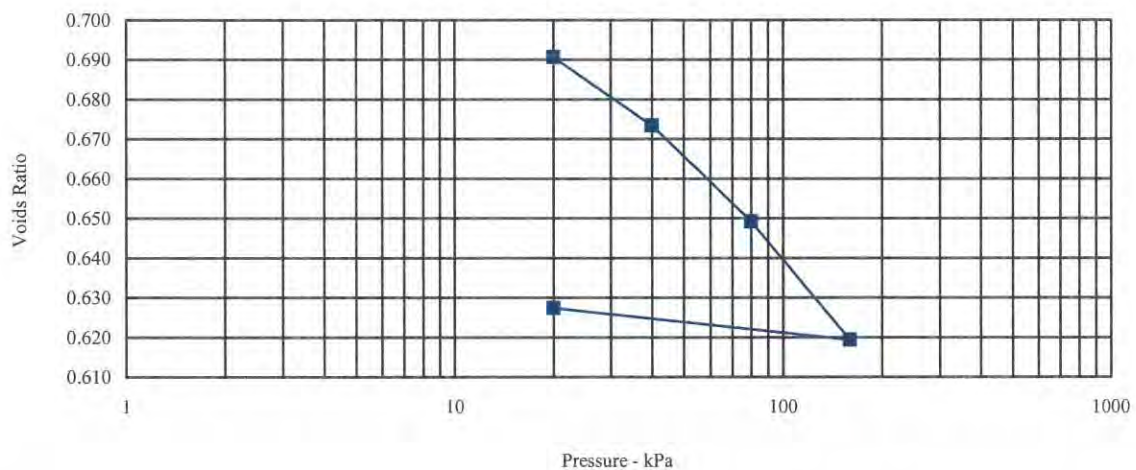
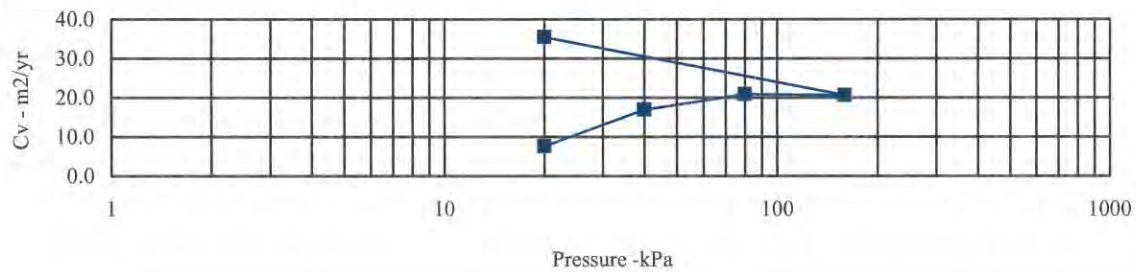
Hole Number: BH12

Depth (m): 1.00

Sample Number: 2

Sample Type: U

Initial Conditions		Pressure Range		Mv	Cv	Specimen location	
Moisture Content (%):	28	kPa		m2/MN	m2/yr	within tube:	Top
Bulk Density (Mg/m3):	1.93	0	-	20	1.871	7.521	
Dry Density (Mg/m3):	1.51	20	-	40	0.509	16.875	t90
Voids Ratio:	0.7563	40	-	80	0.363	20.816	
Degree of saturation:	96.7	80	-	160	0.226	20.579	Nominal temperature during test 'C': 20
Height (mm):	19.9	160	-	20	0.035	35.439	
Diameter (mm)	75.21	Remarks: See summary of soils description.					
Particle Density (Mg/m3):	2.65						
Assumed							



Checked by	Date	Approved by	Date
	19/06/12		19/06/12

PSL Professional Soils Laboratory	CHERRY COB SANDS.	Contract No.
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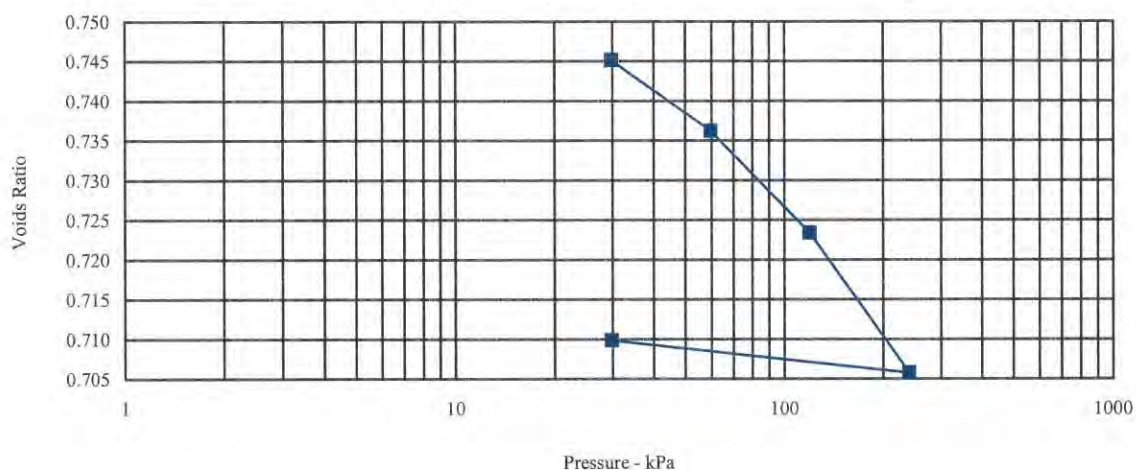
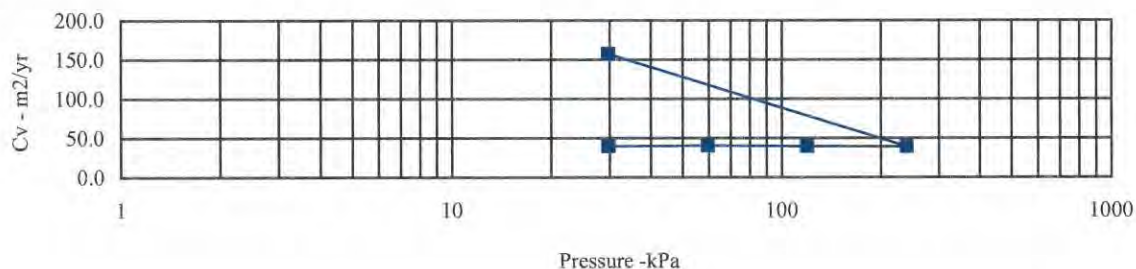
Hole Number: BH18

Depth (m): 1.40

Sample Number: 2

Sample Type: U

Initial Conditions		Pressure Range	Mv	Cv	Specimen location	
Moisture Content (%):	29	kPa	m2/MN	m2/yr	within tube:	Top
Bulk Density (Mg/m3):	1.93	0 - 30	0.483	39.313	Method used to	
Dry Density (Mg/m3):	1.50	30 - 60	0.170	39.999	determine CV:	t90
Voids Ratio:	0.7707	60 - 120	0.123	39.501	Nominal temperature	
Degree of saturation:	99.8	120 - 240	0.085	38.808	during test 'C':	20
Height (mm):	19.88	240 - 30	0.011	156.971	Remarks:	
Diameter (mm)	75.21				See summary of soils description.	
Particle Density (Mg/m3):	2.65					
Assumed						



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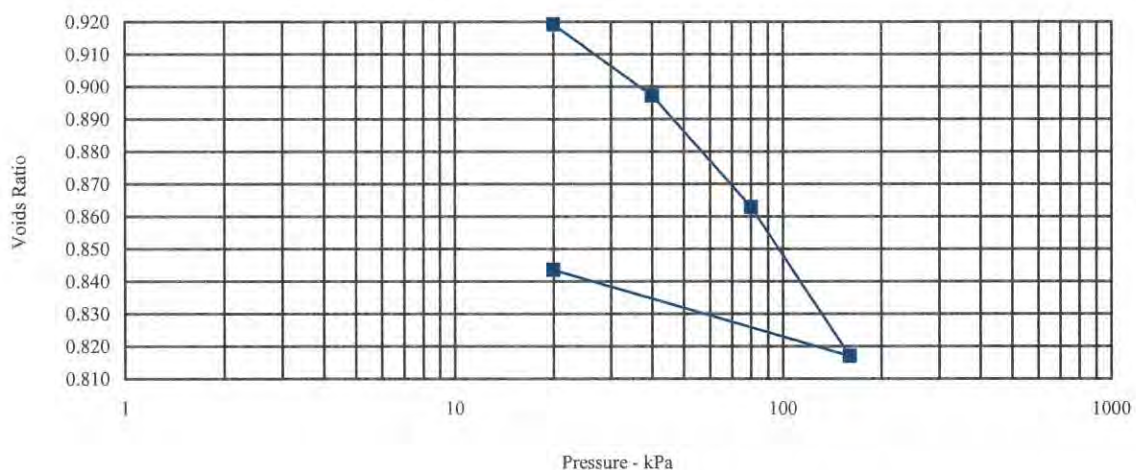
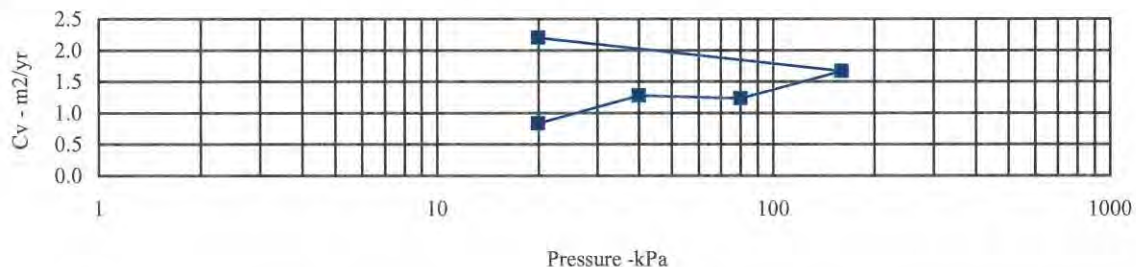
Hole Number: BH14

Depth (m): 1.00

Sample Number: 3

Sample Type: U

Initial Conditions		Pressure Range		Mv	Cv	Specimen location	
Moisture Content (%):	35	kPa		m2/MN	m2/yr	within tube:	Top
Bulk Density (Mg/m3):	1.84	0	-	20	0.752	0.832	
Dry Density (Mg/m3):	1.36	20	-	40	0.572	1.274	t90
Voids Ratio:	0.9484	40	-	80	0.453	1.232	
Degree of saturation:	99.2	80	-	160	0.308	1.664	20
Height (mm):	19.89	160	-	20	0.104	2.196	
Diameter (mm)	75.2	Remarks: See summary of soils description.					
Particle Density (Mg/m3):	2.65						
Assumed							



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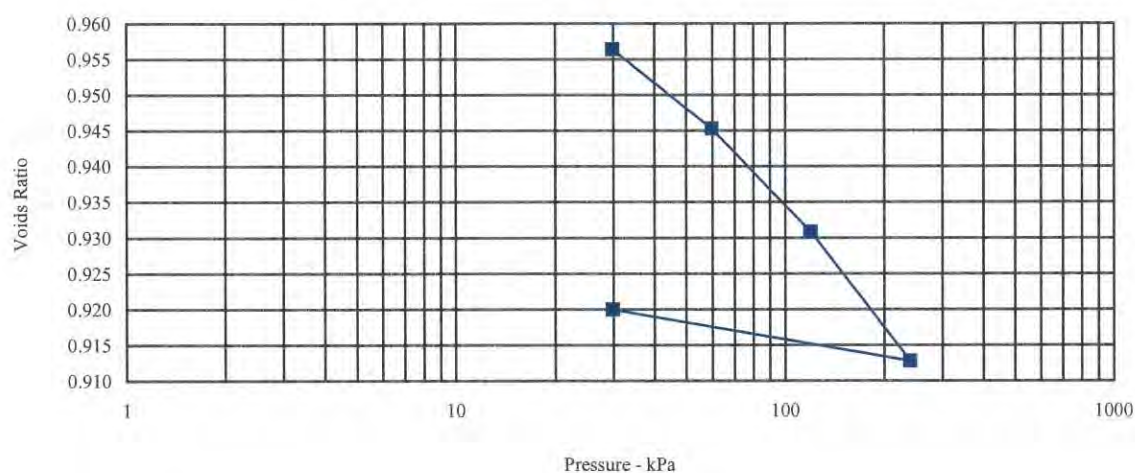
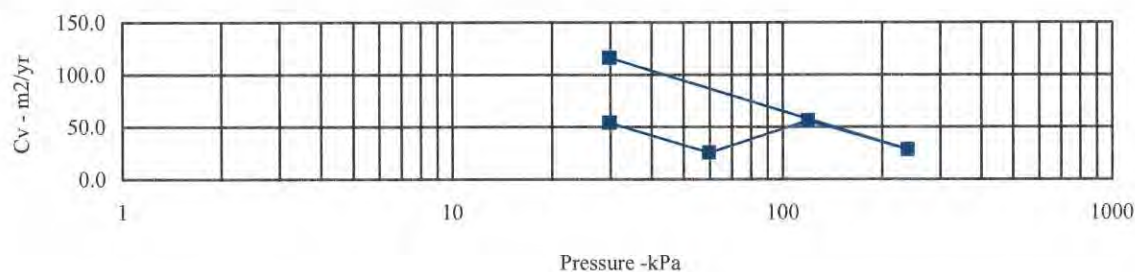
Hole Number: BH14

Depth (m): 1.40

Sample Number: 3

Sample Type: U

Initial Conditions		Pressure Range		Mv	Cv	Specimen location	
Moisture Content (%):	36	kPa		m2/MN	m2/yr	within tube:	Top
Bulk Density (Mg/m3):	1.81	0	- 30	0.541	53.678	Method used to	
Dry Density (Mg/m3):	1.33	30	- 60	0.190	25.303	determine CV:	t90
Voids Ratio:	0.9886	60	- 120	0.124	56.018	Nominal temperature	
Degree of saturation:	96.5	120	- 240	0.078	28.307	during test ' C:	20
Height (mm):	19.83	240	- 30	0.018	115.806	Remarks:	
Diameter (mm)	75.21	See summary of soils description.					
Particle Density (Mg/m3):	2.65						
Assumed							



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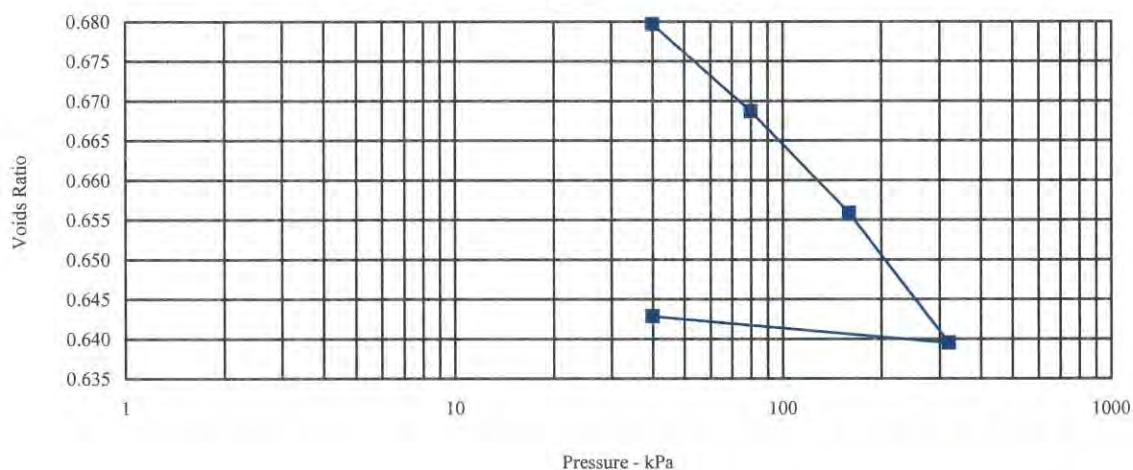
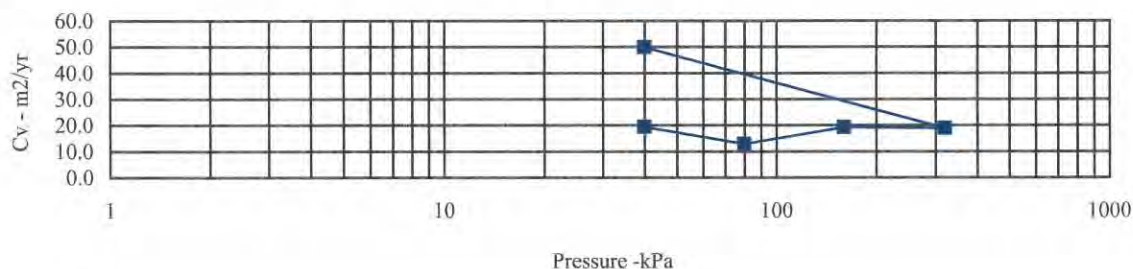
Hole Number: BH14

Depth (m): 2.00

Sample Number: 6

Sample Type: U

Initial Conditions		Pressure Range		Mv	Cv	Specimen location	
Moisture Content (%):	27	kPa		m2/MN	m2/yr	within tube:	Top
Bulk Density (Mg/m3):	1.96	0	~ 40	0.489	19.352	Method used to	
Dry Density (Mg/m3):	1.55	40	~ 80	0.164	12.758	determine CV:	t90
Voids Ratio:	0.7132	80	~ 160	0.096	19.191	Nominal temperature	
Degree of saturation:	99.2	160	~ 320	0.062	18.855	during test 'C':	20
Height (mm):	19.78	320	~ 40	0.007	49.807	Remarks:	
Diameter (mm)	75.2	See summary of soils description.					
Particle Density (Mg/m3):	2.65						
Assumed							



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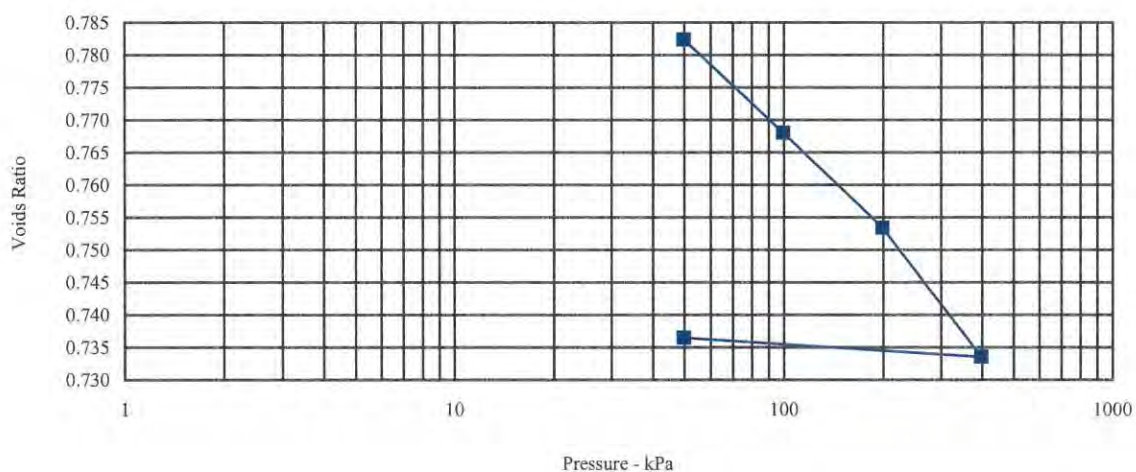
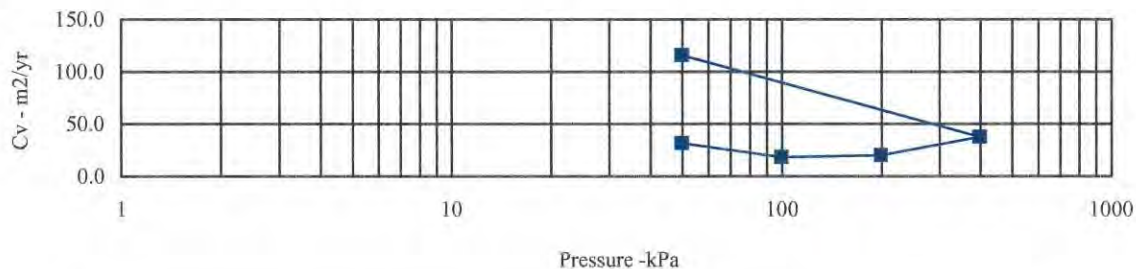
Hole Number: BH14

Depth (m): 2.60

Sample Number: 6

Sample Type: U

Initial Conditions		Pressure Range		Mv	Cv	Specimen location	Top
Moisture Content (%):	29	kPa		m2/MN	m2/yr	within tube:	
Bulk Density (Mg/m3):	1.91	0	- 50	-0.014	31.351	Method used to	
Dry Density (Mg/m3):	1.49	50	- 100	0.161	18.230	determine CV:	t90
Voids Ratio:	0.7811	100	- 200	0.083	20.123	Nominal temperature	
Degree of saturation:	97.3	200	- 400	0.057	37.523	during test ' C:	20
Height (mm):	19.88	400	- 50	0.005	115.608	Remarks:	
Diameter (mm)	75.16	See summary of soils description.					
Particle Density (Mg/m3):	2.65						
Assumed							



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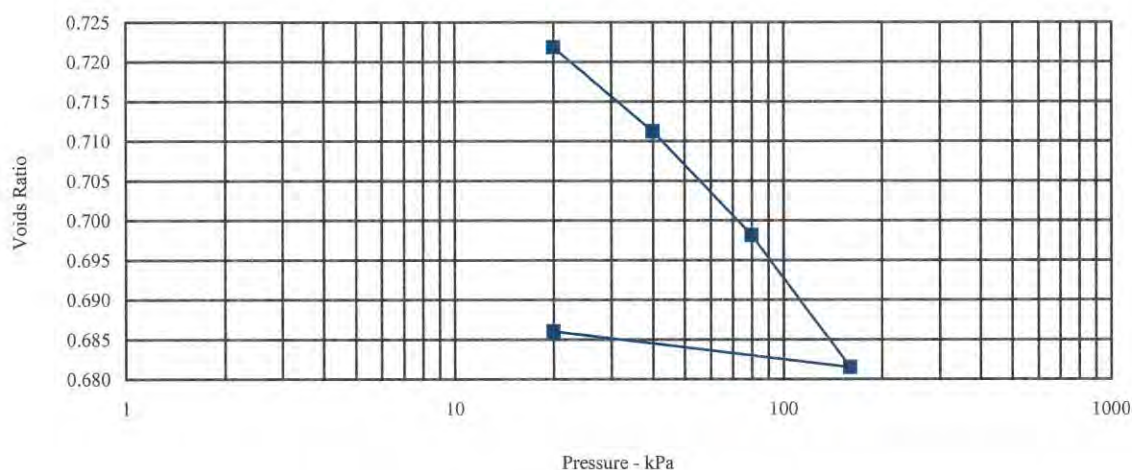
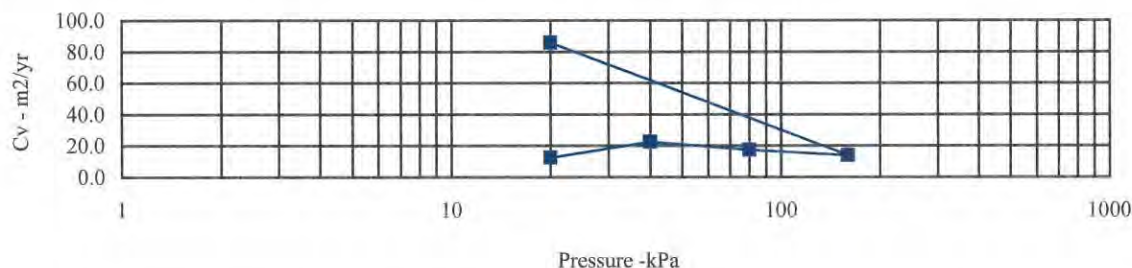
Hole Number: BH17

Depth (m): 1.00

Sample Number: 3

Sample Type: U

Initial Conditions		Pressure Range		Mv	Cv	Specimen location	
Moisture Content (%):	28	kPa		m2/MN	m2/yr	within tube:	Top
Bulk Density (Mg/m3):	1.93	0	-	20	0.917	12.221	
Dry Density (Mg/m3):	1.51	20	-	40	0.308	22.258	t90
Voids Ratio:	0.7540	40	-	80	0.191	17.267	
Degree of saturation:	97.0	80	-	160	0.122	13.747	20
Height (mm):	19.84	160	-	20	0.019	85.666	
Diameter (mm)	75.08	Remarks: See summary of soils description.					
Particle Density (Mg/m3):	2.65						
Assumed							



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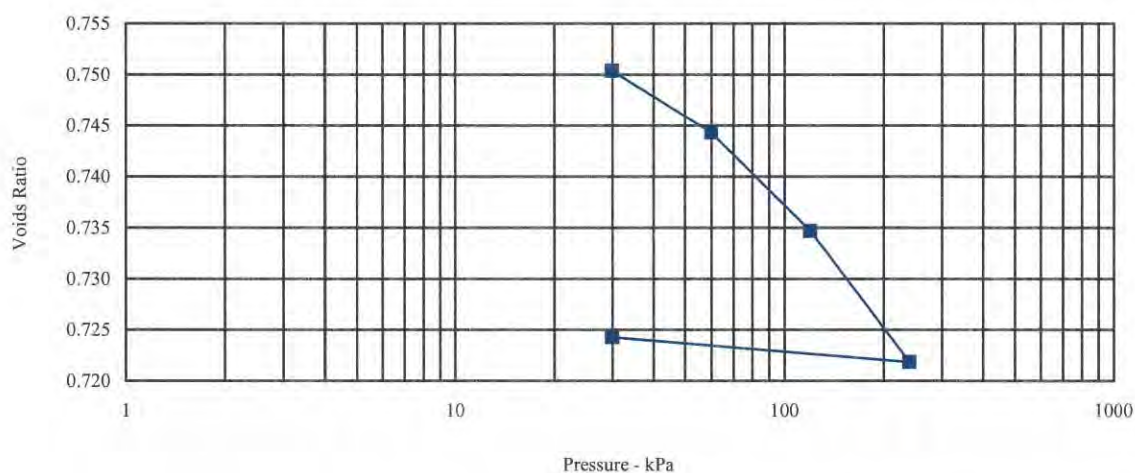
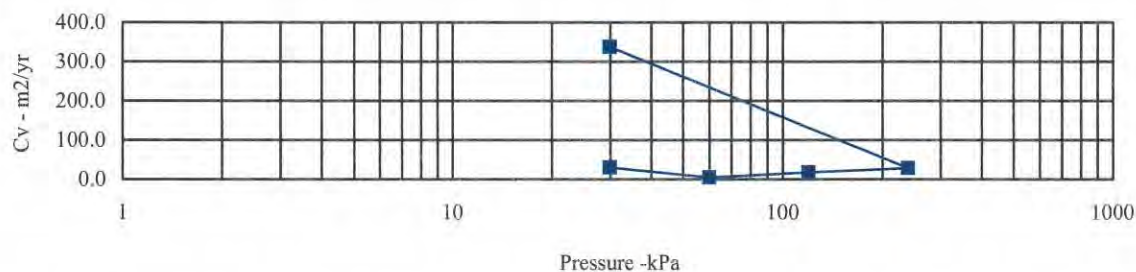
Hole Number: BH17

Depth (m): 1.40

Sample Number: 3

Sample Type: U

Initial Conditions		Pressure Range		Mv	Cv	Specimen location	
Moisture Content (%):	29	kPa		m2/MN	m2/yr	within tube:	Top
Bulk Density (Mg/m3):	1.93	0	- 30	0.312	29.457	Method used to	
Dry Density (Mg/m3):	1.50	30	- 60	0.115	4.359	determine CV:	t90
Voids Ratio:	0.7669	60	- 120	0.092	17.243	Nominal temperature	
Degree of saturation:	99.2	120	- 240	0.062	28.250	during test ' C:	20
Height (mm):	19.57	240	- 30	0.007	336.972	Remarks:	
Diameter (mm)	75.2	See summary of soils description.					
Particle Density (Mg/m3):	2.65						
Assumed							



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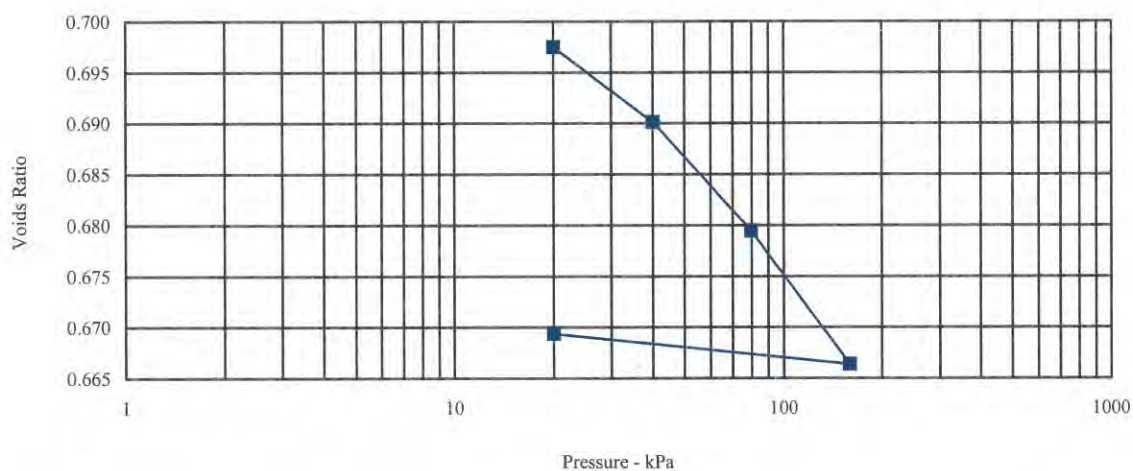
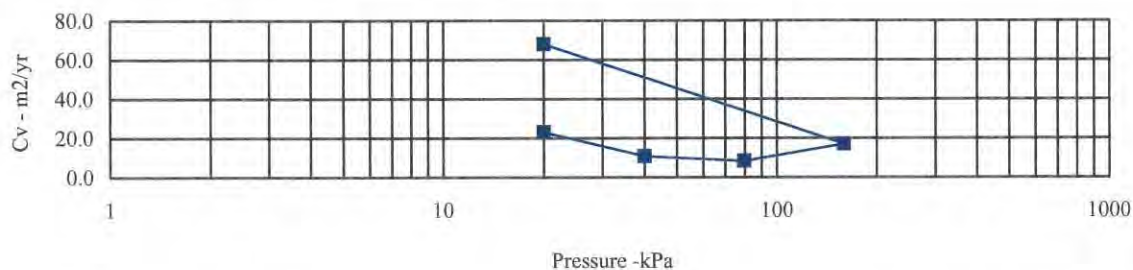
Hole Number: BH18

Depth (m): 1.00

Sample Number: 3

Sample Type: U

Initial Conditions		Pressure Range			Mv	Cv	Specimen location	
Moisture Content (%):	26	kPa			m2/MN	m2/yr	within tube:	Top
Bulk Density (Mg/m3):	1.95	0	-	20	0.596	22.912	Method used to	
Dry Density (Mg/m3):	1.54	20	-	40	0.217	10.576	determine CV:	t90
Voids Ratio:	0.7179	40	-	80	0.157	8.195	Nominal temperature	
Degree of saturation:	97.4	80	-	160	0.097	16.836	during test 'C':	20
Height (mm):	19.55	160	-	20	0.013	67.788	Remarks:	
Diameter (mm)	75.17	See summary of soils description.						
Particle Density (Mg/m3):	2.65							
Assumed								



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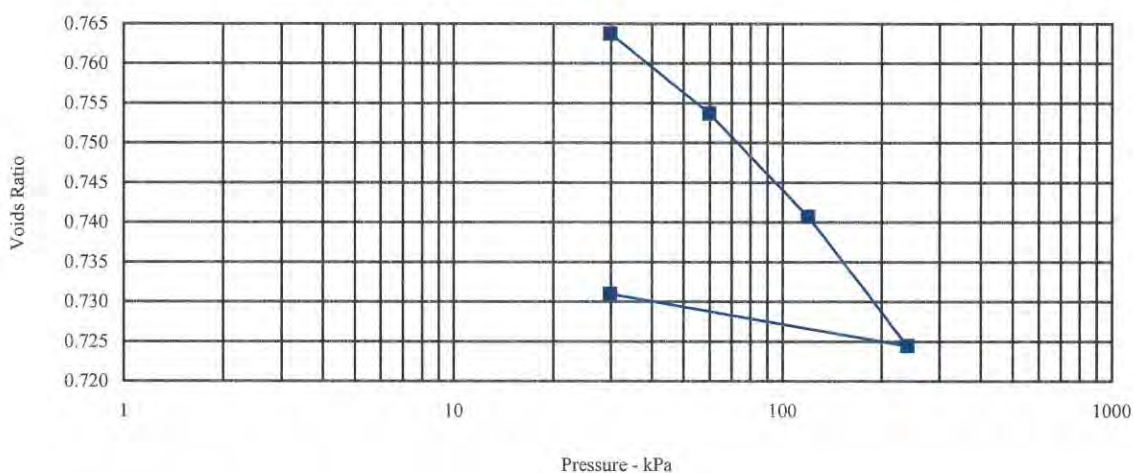
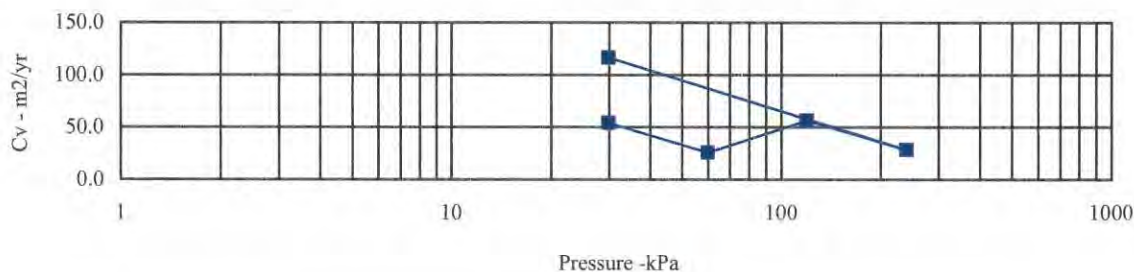
Hole Number: BH18

Depth (m): 1.40

Sample Number: 3

Sample Type: U

Initial Conditions		Pressure Range		Mv	Cv	Specimen location	
Moisture Content (%):	30	kPa		m2/MN	m2/yr	within tube:	Top
Bulk Density (Mg/m3):	1.92	0	-	30	0.540	53.853	Method used to
Dry Density (Mg/m3):	1.48	30	-	60	0.189	25.386	determine CV:
Voids Ratio:	0.7927	60	-	120	0.124	56.204	Nominal temperature
Degree of saturation:	99.1	120	-	240	0.078	28.401	during test ' C:
Height (mm):	19.86	240	-	30	0.018	116.194	Remarks:
Diameter (mm)	75.11	See summary of soils description.					
Particle Density (Mg/m3):	2.65						
Assumed							



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