Trial Pit Number: TP103

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: C. Radiven

Date Started: 08/04/13
Date Completed: 08/04/13
Elevation AOD (m): N/A
Co-ordinates: N/A

Excavation Method: JCB 3CX



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		SUBSURFACE PROFILE			SAMPLE	ES AND IN	I-SITU TESTIN	G
Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75100	Field / Laboratory Testing
- - - - -		MADE GROUND: Brown and red gravelly clayey fine to medium sand. Gravel is fine to coarse sub-angular to sub-rounded of brick sandstone and mudstone.	0.60					
1.0		MADE GROUND: Red brown black ashy gravelly clayey fine to medium sand. Gravel is sub-angular to angular fine to coarse of clinker.	1.30					
- - - -		Many sub-angular to sub-rounded sandstone cobbles.						
2.0			3.00	ES T	2.00 2.00			
- - - - - -		Terminated at 3.00m bgl on red sandstone bedrock.						
4.0 — - - - - - -								
5.0								
6.0								

Key

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub
N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Dimensions: 0.65m x 0.85m x 3.00m

Services: Prior to excavation the trial pit location was scanned with a Cable Avoidance Tool (CAT).

Stability: Stable

Groundwater: None encountered

Trial Pit Number: TP104

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: C. Radiven

Date Started: 08/04/13

Date Completed: 08/04/13

Elevation AOD (m): N/A

Co-ordinates: N/A

Excavation Method: JCB 3CX



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		SUBSURFACE PROFILE			SAMPLE	S AND II	N-SITU TESTIN	G
Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75100	Field / Laboratory Testing
1.0 — 1.0 — 2.0 — 3.0 — 4.0 —	regen	MADE GROUND: Brown gravelly clayey fine to medium sand. Gravel is fine to coarse angular to sub-angular of brick and sandstone. MADE GROUND: Red brown black ashy gravelly clayey fine to medium sand with some cobbles. Gravel fine to coarse sub-angular to angular of sandstone, brick, bottles, metal and textiles.	Strata	B ES	Depth (mbgl) 0.80 1.20	Level		Laboratory Testing
5.0 -		Red sandy cobbles of angular to sub-angular cobbles of sandstone.	5.00					
6.0		Complete at 5.00m bgl.						

Key

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm) V. 40ml Glass Vial T. Plastic Tub
N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Dimensions: 0.65m x 0.85m x 1.70m

Services: Prior to excavation the trial pit location was scanned with a Cable Avoidance Tool (CAT).

Stability: Stable

Groundwater: None encountered

Trial Pit Number: TP105

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: C. Radiven

Date Started: 08/04/13

Date Completed: 08/04/13

Elevation AOD (m): N/A

Co-ordinates: N/A

Excavation Method: JCB 3CX



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		SUBSURFACE PROFILE			SAMPLE	S AND IN	I-SITU TESTIN	G
Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75100	Field / Laboratory Testing
2.0		MADE GROUND: Brown gravelly clayey fine to medium sand with some cobbles. Gravel is fine to coarse angular to sub-angular of brick, glass, porcelain and sandstone. Cobbles are rounded of sandstone. MADE GROUND: Red brown very gravelly coarse sand with many cobbles. Gravel is fine to coarse angular to sub-angular of brick and glass. Cobbles are rounded of sandstone. MADE GROUND: Black brown ashy gravelly fine to coarse sand. Gravel is fine to coarse sub-angular to angular of clinker, glass, fabric, metal, rubber and wood. Cobbles are angular of sandstone.	0.50	ES	2.00			
		Red gravelly fine to coarse SAND. Gravel is fine to coarse sub-angular of sandstone.	4.60					
5.0		Complete at 4.60m bgl.						

Key

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm) V. 40ml Glass Vial T. Plastic Tub
N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Dimensions: 0.65m x 0.85m x 4.60m

Services: Prior to excavation the trial pit location was scanned with a Cable Avoidance Tool (CAT).

Stability: Stable

Groundwater: None encountered

Trial Pit Number: TP106

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: C. Radiven

Date Started: 08/04/13
Date Completed: 08/04/13
Elevation AOD (m): N/A
Co-ordinates: N/A

Excavation Method: JCB 3CX



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		SUBSURFACE PROFILE			SAMPLE	S AND IN	-SITU TESTIN	G
Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75100	Field / Laboratory Testing
1.0 —		MADE GROUND: Brown gravelly clayey fine sand. Gravel is coarse angular to sub-angular of brick and sandstone. MADE GROUND: Black clayey gravelly fine to medium sand with some cobbles. Gravel is coarse angular to sub-angular of brick, bottles, metal and plastic. Cobbles are sub-anngular to angular of mixed lithology. Red brown clayey gravelly fine to coarse SAND. Gravel is fine to coarse sub-angular to sub-rounded of sandstone and mudstone.	2.50	ES	2.50			
			3.50					
4.0		Complete at 3.50m bgl.						
5.0								

Key

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm) V. 40ml Glass Vial T. Plastic Tub
N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Dimensions: 0.65m x 0.85m x 3.50m

Services: Prior to excavation the trial pit location was scanned with a Cable Avoidance Tool (CAT).

Stability: Stable

Groundwater: None encountered

Trial Pit Number: TP107

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: C. Radiven

Date Started: 08/04/13
Date Completed: 08/04/13
Elevation AOD (m): N/A
Co-ordinates: N/A

Excavation Method: JCB 3CX



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	SUBSURFACE PROFILE			SAMPLE	S AND IN	I-SITU TESTIN	G
Depth (mbgl) Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75100	Field / Laboratory Testing
2.0	MADE GROUND: Brown gravelly clayey fine sand. Gravel is fine to coarse angular to subrounded of brick and sandstone. MADE GROUND: Red / black brown ashy gravelly fine to coarse sand. Gravel is fine to coarse sub-angular to angular of glass, metals, brick and wood. Red clayey gravel with some cobbles. Gravel is fine to coarse angular to sub-angular of sandstone. Cobbles are angular to sub-angular of sandstone. Collapse at 2.00m bgl.	0.30	ES B	0.90 1.20			
3.0	Complete at 3.00m bgl.	3.00					
4.0							
5.0							

<u>Key</u>

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub
N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Dimensions: 0.65m x 0.85m x 1.70m

Services: Prior to excavation the trial pit location was scanned with a Cable Avoidance Tool (CAT).

Stability: Stable

Groundwater: None encountered

Trial Pit Number: TP108

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: C. Radiven

Date Started: 08/04/13
Date Completed: 08/04/13
Elevation AOD (m): N/A
Co-ordinates: N/A

Excavation Method: JCB 3CX



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		SUBSURFACE PROFILE			SAMPLE	S AND IN	I-SITU TESTIN	G
Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75100	Field / Laboratory Testing
1.0-		MADE GROUND: Brown gravelly clayey fine to coarse sand with some cobbles. Gravel is fine to coarse sub-angular to angular of brick. Cobbles are sub-rounded to rounded of sandstone. MADE GROUND: Red brown gravelly fine to coarse sand. Gravel is angular to sub-angular of sandstone. MADE GROUND: Black clayey ashy gravel with some cobbles. Gravel is fine to coarse sub-angular to sub-rounded of glass, bottles, wood, brick, burnt fabric, metal, wire tyres and clinker. Cobbles are rounded of sandstone. (2.90m bgl large sandstone).	0.30 0.90 3.50 3.80	ES	0.90			
4.0		Complete at 3.80m bgl.						

Key

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub
N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Dimensions: 0.65m x 0.85m x 1.70m

Services: Prior to excavation the trial pit location was scanned with a Cable Avoidance Tool (CAT).

Stability: Stable

Groundwater: None encountered

Trial Pit Number: TP109

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: C. Radiven

Date Started: 08/04/13
Date Completed: 08/04/13
Elevation AOD (m): N/A
Co-ordinates: N/A

Excavation Method: JCB 3CX



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	SUBSURFACE PROFILE			SAMPLE	S AND IN	I-SITU TESTIN	G
(mbgl)	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75100	Field / Laboratory Testing
2.0	MADE GROUND: Brown gravelly clayey fine sand. Gravel is fine to coarse sub-angular of brick. MADE GROUND: Red brown gravelly clayey fine to medium sand. Gravel is medium to coarse sub-angular to sub-rounded of brick. MADE GROUND: Red brown black ashy gravelly clayey fine to medium sand with some cobbles. Gravel is fine to coarse sub-angular to angular of clinker, glass, wood and fabric. Cobbles are sub-rounded of sandstone.	0.20	ES	0.20			
.0	Red clayey sandy COBBLES. Cobbles are angular to sub-angular of sandstone.	3.90					
.0-	Complete at 4.50m bgl.	4.50					

<u>Key</u>

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub
N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Dimensions: 0.65m x 0.85m x 1.70m

Services: Prior to excavation the trial pit location was scanned with a Cable Avoidance Tool (CAT).

Stability: Stable

Groundwater: None encountered

Trial Pit Number: TP110

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: C. Radiven

Date Started: 08/04/13
Date Completed: 08/04/13
Elevation AOD (m): N/A
Co-ordinates: N/A

Excavation Method: JCB 3CX



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		SUBSURFACE PROFILE			SAMPLE	S AND IN	-SITU TESTIN	G
Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75100	Field / Laboratory Testing
1.0		MADE GROUND: Brown gravelly clayey fine sand. Gravel is fine to coarse sub-rounded to rounded of sandstone. MADE GROUND: Red brown clayey fine sand. MADE GROUND: Red black brown ashy gravelly clayey fine to coarse sand with some cobbles. Gravel is fine to coarse sub-angular to angular of clinker, plastic, metal, glass and bricks. Cobbles are angular to sub-rounded brick and sandstone Red SANDSTONE.	2.00	ES	1.20			
_			2.50					
3.0		Complete at 2.50m bgl.						
4.0 —								
5.0 —								

Key

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub
N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Dimensions: 0.65m x 0.85m x 1.70m

Services: Prior to excavation the trial pit location was scanned with a Cable Avoidance Tool (CAT).

Stability: Stable

Groundwater: None encountered

Trial Pit Number: TP111

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: C. Radiven

Date Started: 08/04/13
Date Completed: 08/04/13
Elevation AOD (m): N/A
Co-ordinates: N/A

Excavation Method: JCB 3CX



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		SUBSURFACE PROFILE			SAMPLE	S AND IN	-SITU TESTIN	G
Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75100	Field / Laboratory Testing
- - -		MADE GROUND: Brown gravelly clayey fine to medium sand. Gravel is medium to coarse angular to sub-angular of brick.	0.50					
1.0		MADE GROUND: Red black brown ashy gravelly fine to medium sand. Gravel is fine to coarse sub-angular to sub-rounded of glass, clinker, slag, metal, wood and brick.	1.20					
- - - -		Red very weathered SANDSTONE.						
2.0			2.50					
3.0		Complete at 2.50m bgl.						
- - - -								
4.0								
5.0								
- - - -								
6.0								

Key

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub
N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Dimensions: 0.65m x 0.85m x 1.70m

Services: Prior to excavation the trial pit location was scanned with a Cable Avoidance Tool (CAT).

Stability: Stable

Groundwater: None encountered

Trial Pit Number: TP112

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: C. Radiven

Date Started: 08/04/13
Date Completed: 08/04/13
Elevation AOD (m): N/A
Co-ordinates: N/A

Excavation Method: JCB 3CX



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	SUBSURFACE PROFILE			SAMPI F	S AND I	N-SITU TESTIN	
Depth (mbgl) Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75100	Field / Laboratory Testing
1.0	MADE GROUND: Brown gravelly clayey fine to medium sand. Gravel is fine to coarse angular to sub-angular of brick. MADE GROUND: Red black brown ashy gravelly clayey fine to medium sand. Gravel is fine to coarse sub-angular to angular of clinker, brick, metal, bottles and wood.	0.40	ES	1.50			
2.0	Red brown CLAY with some cobbles. Cobbles are sub-angular to angular of sandstone.	2.50					
3.0	Complete at 2.50m bgl on sandstone.						
4.0							
5.0							

<u>Key</u>

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub
N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Dimensions: 0.65m x 0.85m x 1.70m

Services: Prior to excavation the trial pit location was scanned with a Cable Avoidance Tool (CAT).

Stability: Stable

Groundwater: None encountered

Trial Pit Number: TP113

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: C. Radiven

Date Started: 08/04/13

Date Completed: 08/04/13

Elevation AOD (m): N/A

Co-ordinates: N/A

Excavation Method: JCB 3CX



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C. Radiven Excav	ation Method: .	ICB 3CX			www.recltd.co.uk	
SUBSURFACE PROFILE			SAMPLE	S AND II	N-SITU TESTIN	G
Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75100	Field / Laboratory Testing
MADE GROUND: Red brown gravelly clayey fine to medium sand. Gravel is fine to coarse sub-angular to sub-rounded of brick.	0.00					
MADE GROUND: Red gravelly fine to coarse sand. Gravel is fine to coarse sub-angular to sub-rounded of sandstone.	0.60					
MADE GROUND: Black red brown gravelly coarse sand with some cobbles and occasional timber. Gravel is coarse angular of brick ash clinker bottles slag and metal.	1.20					
Ded weathered CANDCTONE recovered as	4.20					
gravel and cobbles.						
	5.00					
Complete at 5.00m bgl.						
	SUBSURFACE PROFILE Description MADE GROUND: Red brown gravelly clayey fine to medium sand. Gravel is fine to coarse sub-angular to sub-rounded of brick. MADE GROUND: Red gravelly fine to coarse sand. Gravel is fine to coarse sub-angular to sub-rounded of sandstone. MADE GROUND: Black red brown gravelly coarse sand with some cobbles and occasional timber. Gravel is coarse angular of brick ash clinker bottles slag and metal. Red weathered SANDSTONE recovered as gravel and cobbles.	SUBSURFACE PROFILE Description Depth of Strata (mbgl) MADE GROUND: Red brown gravelly clayey fine to medium sand. Gravel is fine to coarse sub-angular to sub-rounded of brick. 0.60 MADE GROUND: Red gravelly fine to coarse sand. Gravel is fine to coarse sub-angular to sub-rounded of sandstone. 1.20 MADE GROUND: Black red brown gravelly coarse sand with some cobbles and occasional timber. Gravel is coarse angular of brick ash clinker bottles slag and metal. 4.20 Red weathered SANDSTONE recovered as gravel and cobbles.	SUBSURFACE PROFILE Description Depth of Strata (mbgl) MADE GROUND: Red brown gravelly clayey fine to medium sand. Gravel is fine to coarse sub-angular to sub-rounded of brick. MADE GROUND: Red gravelly fine to coarse sand. Gravel is fine to coarse sub-angular to sub-rounded of sandstone. MADE GROUND: Black red brown gravelly coarse sand with some cobbles and occasional timber. Gravel is coarse angular of brick ash clinker bottles slag and metal. Red weathered SANDSTONE recovered as gravel and cobbles. 4.20 Red weathered SANDSTONE recovered as gravel and cobbles.	SUBSURFACE PROFILE Description Depth of Strata (mbgl) MADE GROUND: Red brown gravelly clayey fine to medium sand. Gravel is fine to coarse sub-angular to sub-rounded of brick. MADE GROUND: Red gravelly fine to coarse sand. Gravel is fine to coarse sand. Gravel is fine to coarse sub-angular to sub-rounded of sandstone. MADE GROUND: Black red brown gravelly coarse sand with some cobbles and occasional timber. Gravel is coarse angular of brick ash clinker bottles slag and metal. Red weathered SANDSTONE recovered as gravel and cobbles. 5.00	SUBSURFACE PROFILE Description Description Depth of Strata (mbgl) MADE GROUND: Red brown gravelly clayey fine to medium sand. Gravel is fine to coarse sub-angular to sub-rounded of brick. MADE GROUND: Red gravelly fine to coarse sand. Gravel is fine to coarse sub-angular to sub-rounded of sandstone. MADE GROUND: Black red brown gravelly coarse sand with some cobbles and occasional timber. Gravel is coarse angular of brick ash clinker bottles slag and metal. Red weathered SANDSTONE recovered as gravel and cobbles. 5.00	SUBSURFACE PROFILE Description Description Description Depth of Strata (mbgl) MADE GROUND: Red brown gravelly clayey fine to medium sand. Gravel is fine to coarse sub-angular to sub-rounded of brick. MADE GROUND: Red gravelly fine to coarse sand. Gravel is fine to coarse sand. Gravel is fine to coarse sand. Gravel is fine to coarse sub-angular to sub-rounded of sandstone. 1.20 MADE GROUND: Black red brown gravelly coarse sand with some cobbles and occasional timber. Gravel is coarse angular of brick ash clinker bottles slag and metal. 4.20 Red weathered SANDSTONE recovered as gravel and cobbles.

Key

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub
N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Dimensions: 0.65m x 0.85m x 5.00m

Services: Prior to excavation the trial pit location was scanned with a Cable Avoidance Tool (CAT).

Stability: Stable

Groundwater: None encountered

Trial Pit Number: TP114

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: C. Radiven

Date Started: 08/04/13 Date Completed: 08/04/13 Elevation AOD (m): N/A Co-ordinates: N/A

Excavation Method: JCB 3CX



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		SUBSURFACE PROFILE		SAMPLES AND IN-SITU TESTING P.I.D					
(mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75100	Field / Laboratory Testing	
3.0		MADE GROUND: Brown gravelly clayey fine sand. Gravel is fine to coarse sub-angular to sub-rounded of glass and brick. MADE GROUND: Black brown ashy clayey gravelly fine to coarse sand. Gravel is fine to coarse sub-angular to angular ofclinker, metal, bottles, brick, shoes, sandstone many glass jars wood and carpet. Red weathered SANDSTONE recovered as cobbles. Complete at 4.80m bgl.	4.60 4.80	ES	3.00				

Notes Dimensions: 0.65m x 0.85 x 4.80m

U100. 100mm Undisturbed

U38. 38mm Undisturbed Sample

SPT. Standard Penetration Test

Services: Prior to excavation the trial pit location was scanned with a Cable Avoidance Tool (CAT).

CPT. Cone Penetration Test

U100. Blows (Recovery mm)

V. 40ml Glass Vial

Stability: Stable

Groundwater: None encountered

Date: 10/04/13 Status: Final

HV. Hand Shear Vane

PID. Photo Ionisation Detector

ES. Environmental Sample

Trial Pit Number: TP115

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: C. Radiven

Date Started: 08/04/13
Date Completed: 08/04/13
Elevation AOD (m): N/A

Co-ordinates: N/A

Excavation Method: JCB 3CX



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		SUBSURFACE PROFILE			SAMPLE	S AND IN	I-SITU TESTIN	G
(mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75100	Field / Laboratory Testing
11.0		MADE GROUND: Brown gravelly clayey fine sand. Gravel is fine to coarse angular to subrounded of sandstone and brick. Cobbles are sub-angular to sub-rounded of brick and sandstone. MADE GROUND: Brown becoming black ashy clayey gravelly sand. Gravel is fine to coarse sub-angular to angular of sandstone glass bottles metal plastic brick clinker and slag. Cobbles are sub-angular to angular of sandstone and brick.	0.50					
3.0 — - - - - - - -		Red weathered SANDSTONE recovered as gravel and cobbles.	3.50	В	3.50			
- 1.0 —			4.10					
- - - - - -		Complete at 4.10m bgl.						
5.0 — - - - - - - -								

Key

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub
N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Dimensions: 0.65m x 0.85m x 4.10m

Services: Prior to excavation the trial pit location was scanned with a Cable Avoidance Tool (CAT).

Stability: Stable

Groundwater: None encountered

Trial Pit Number: TP116

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: C. Radiven

Date Started: 08/04/13

Date Completed: 08/04/13

Elevation AOD (m): N/A

Co-ordinates: N/A

Excavation Method: JCB 3CX



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		SUBSURFACE PROFILE			SAMPLE	S AND IN	I-SITU TESTIN	G
Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75100	Field / Laboratory Testing
1.0		MADE GROUND: Brown gravelly fine sand with many cobbles. Gravel is coarse sub-angular of brick and sandstone. Cobbles are sub-angular of sandstone. MADE GROUND: Red black brown ashy clayey gravelly sand. Gravel is fine to coarse sub-angular to angular of clinker bottles and metal pipes.	0.30					
- - - -	-	Red weathered SANDSTONE recovered as gravel and cobbles.						
2.0	-		2.00					
3.0-		Complete at 2.00m bgl.						
4.0-								
5.0								

Key

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub
N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Dimensions: 0.65m x 0.85m x 2.00m

Services: Prior to excavation the trial pit location was scanned with a Cable Avoidance Tool (CAT).

Stability: Stable

Groundwater: None encountered

Trial Pit Number: TP117

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: C. Radiven

Date Started: 08/04/13

Date Completed: 08/04/13

Elevation AOD (m): N/A

Co-ordinates: N/A

Excavation Method: JCB 3CX



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		SUBSURFACE PROFILE			SAMPLE	S AND IN	I-SITU TESTIN	G
Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75100	Field / Laboratory Testing
1.0-		MADE GROUND: Brown gravelly clayey fine sand. Gravel is coarse rounded to sub-angular of brick. MADE GROUND: Brown red black ashy clayey gravelly sand. Gravel is fine to coarse angular to rounded of clinker, tyres, sandstone, brick, bottles, tipwaste and metal pipes. Red weathered SANDSTONE recovered as	2.00	ES	0.30			
_		gravel and cobbles.	2.50					
3.0 - 4.0 - 5.0 - 5.0 - 7.0		Complete at 2.50m bgl.						
6.0								

Key

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub
N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Dimensions: 0.65m x 0.85m x 2.50m

Services: Prior to excavation the trial pit location was scanned with a Cable Avoidance Tool (CAT).

Stability: Stable

Groundwater: None encountered

Trial Pit Number: TP118

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: C. Radiven

Date Started: 08/04/13
Date Completed: 08/04/13
Elevation AOD (m): N/A
Co-ordinates: N/A

Excavation Method: JCB 3CX



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	SUBSURFACE PROFILE			SAMPLE	S AND IN	I-SITU TESTIN	G
(mbgl)	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75100	Field / Laboratory Testing
-	MADE GROUND: Brown gravelly clayey fine sand. Gravel is fine to coarse sub-angular to sub-rounded of brick and sandstone.	0.70					
.0.	MADE GROUND: Black red brown ashy clayey gravelly sand. Gravel is fine to coarse angular of clinker with glass bottles metal pipes wood and fabric stuffing with strong odour.						
.0							
.0		3.80					
.0 -	Red weathered SANDSTONE recovered as gravel and cobbles. Complete at 4.40m bgl.	4.00					
.0-							

<u>Key</u>

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub
N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Dimensions: 0.65m x 0.85m x 4.00m

Services: Prior to excavation the trial pit location was scanned with a Cable Avoidance Tool (CAT).

Stability: Stable

Groundwater: None encountered

Trial Pit Number: TP119

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: C. Radiven

Date Started: 08/04/13
Date Completed: 08/04/13
Elevation AOD (m): N/A
Co-ordinates: N/A

Excavation Method: JCB 3CX



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		SUBSURFACE PROFILE			SAMPLE	S AND II	N-SITU TESTIN	G
(mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75100	Field / Laboratory Testing
-		MADE GROUND: Brown gravelly clayey fine sand. Gravel is fine to coarse sub-angular to sub-rounded of brick and sandstone.						
_			0.60					
- - - 0 -		MADE GROUND: Brown black very clayey gravelly fine to coarse sand with some cobbles. Gravel is fine to coarse sub-angular to sub-						
- -		rounded of brick and sandstone. Cobbles are rounded of sandstone.	1.20					
		MADE GROUND: Black gravelly ashy sand with boulders. Gravel is fine to coarse angular to rounded of brick, clinker, glass and wood. Boulders are sub-rounded of sandstone and brick.						
- - - - - - -			5.00					
- - -		Red SANDSTONE.						
- - - - 0 -		Complete at 5.00m bgl.						

Notes Dimensions: 0.65m x 0.85m x 5.00m

Services: Prior to excavation the trial pit location was scanned with a Cable Avoidance Tool (CAT).

U100. Blows (Recovery mm)

V. 40ml Glass Vial

Stability: Stable

Groundwater: None encountered

U38. 38mm Undisturbed Sample

SPT. Standard Penetration Test

Date: 10/04/13

Status: Final

PID. Photo Ionisation Detector

ES. Environmental Sample

Trial Pit Number: TP120

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: C. Radiven

Date Started: 08/04/13
Date Completed: 08/04/13
Elevation AOD (m): N/A
Co-ordinates: N/A

Excavation Method: JCB 3CX



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		SUBSURFACE PROFILE			SAMPLE	S AND II	N-SITU TESTIN	G
(lgdm)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75100	Field / Laboratory Testing
qw)	Ted	MADE GROUND: Brown gravelly clayey fine sand with many cobbles. Gravel is coarse subrounded brick and sandstone. Cobbles of angular brick. MADE GROUND: Red brown gravelly very clayey fine to medium sand. Gravel is fine to coarse sub-angular to rounded of sandstone. MADE GROUND: Black gravelly ashy sand. Gravel is fine to coarse angular to rounded of brick, sandstone, glass and timber.		Турс	(mbgl)		0 25 50 75100	Testing
0-		Red weathered SANDSTONE recovered as gravel and cobbles. Complete at 4.50m bgl.	4.30	В	4.50			

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm)

V. 40ml Glass Vial

N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Dimensions: 0.65m x 0.85m x 4.50m

Services: Prior to excavation the trial pit location was scanned with a Cable Avoidance Tool (CAT).

Stability: Stable

Groundwater: None encountered

Trial Pit Number: TP121

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: C. Radiven

Date Started: 08/04/13
Date Completed: 08/04/13
Elevation AOD (m): N/A
Co-ordinates: N/A

Excavation Method: JCB 3CX



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		SUBSURFACE PROFILE			SAMPLE	S AND IN	-SITU TESTIN	G
Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75100	Field / Laboratory Testing
- - - - -		MADE GROUND: Brown gravelly clayey fine sand. Gravel is coarse sub-rounded of brick and sandstone.	0.70					
2.0		MADE GROUND: Black gravelly ashy fine to coarse sand. Gravel is fine to coarse angular to rounded of clinker bottles metal wood and plastic sheets.		ES	2.50			
3.0		Red weathered SANDSTONE recovered as gravel and cobbles.	3.30 3.50					
- - -								
4.0		Complete at 3.50m bgl.						
5.0								
6.0								

Key

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub
N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Dimensions: 0.65m x 0.85m x 3.50m

Services: Prior to excavation the trial pit location was scanned with a Cable Avoidance Tool (CAT).

Stability: Stable

Groundwater: None encountered

Trial Pit Number: TP122

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: C. Radiven

Date Started: 08/04/13
Date Completed: 08/04/13
Elevation AOD (m): N/A
Co-ordinates: N/A

Excavation Method: JCB 3CX



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		- Add Voli	on method.					
		SUBSURFACE PROFILE			SAMPLE	S AND IN	-SITU TESTIN	G
Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75100	Field / Laboratory Testing
-		MADE GROUND: Brown gravelly clayey fine to medium sand. Gravel is medium to coarse angular to sub-rounded of sandstone and brick.						
1.0-			1.30					
- - -		MADE GROUND: Black gravelly ashy fine to medium sand. Gravel is coarse angular to rounded of metal bottles, plastic, shoes and paper.	1.80					
			2.00					
3.0		Red weathered SANDSTONE. Complete at 2.00m bgl.						
4.0								
5.0 —								

Key

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub
N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Dimensions: 0.65m x 0.85m x 2.00m

Services: Prior to excavation the trial pit location was scanned with a Cable Avoidance Tool (CAT).

Stability: Stable

Groundwater: None encountered

Trial Pit Number: TP123

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: C. Radiven

Date Started: 08/04/13
Date Completed: 08/04/13
Elevation AOD (m): N/A
Co-ordinates: N/A

Excavation Method: JCB 3CX



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		SUBSURFACE PROFILE			SAMPLE	S AND IN	-SITU TESTIN	G
Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75100	Field / Laboratory Testing
- - - -		MADE GROUND: Brown gravelly clayey fine sand. Gravel is coarse sub-angular to sub-rounded of brick.	0.70					
1.0		MADE GROUND: Black clayey ashy gravelly sand. Gravel is fine to coarse sub-angular to sub-rounded of clinker, bottles and metal.	2.00					
2.0 - - -		Red SANDSTONE.	1 2.00					
-								
-		Complete at 2.00m bgl.						
3.0								
-								
-								
-								
4.0 -								
-								
-								
5.0								
-								
-								
-								
6.0								

<u>Key</u>

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub
N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Dimensions: 0.65m x 0.85m x 2.00m

Services: Prior to excavation the trial pit location was scanned with a Cable Avoidance Tool (CAT).

Stability: Stable

Groundwater: None encountered

Trial Pit Number: TP124

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: C. Radiven

Date Started: 08/04/13
Date Completed: 08/04/13
Elevation AOD (m): N/A
Co-ordinates: N/A

Excavation Method: JCB 3CX



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		SUBSURFACE PROFILE			SAMPLE	S AND IN	I-SITU TESTIN	G
Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75100	Field / Laboratory Testing
- - - -		MADE GROUND: Brown gravelly clayey fine sand. Gravel is coarse sub-angular to sub-rounded of brick. Plastic pipe at 0.30m bgl.	0.40					
1.0		MADE GROUND: Black clayey ashy gravelly sand. Gravel is fine to coarse sub-angular to sub-rounded of clinker, bottles and metal.	1.20					
- - - -	*****	Red weathered SANDSTONE recovered as gravel and cobbles.						
2.0			2.30					
-		Red / grey SANDSTONE.	2.50					
3.0		Complete at 2.50m bgl.						
4.0								
5.0								
6.0								

Key

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub
N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Dimensions: 0.65m x 0.85m x 2.50m

Services: Prior to excavation the trial pit location was scanned with a Cable Avoidance Tool (CAT).

Stability: Stable

Groundwater: None encountered

Trial Pit Number: TP125

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: C. Radiven

Date Started: 08/04/13
Date Completed: 08/04/13
Elevation AOD (m): N/A
Co-ordinates: N/A

Excavation Method: JCB 3CX



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		SUBSURFACE PROFILE			SAMPLE	S AND IN	I-SITU TESTING	G
Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75100	Field / Laboratory Testing
1.0		MADE GROUND: Brown gravelly clayey fine sand. Gravel is fine to coarse angular to subrounded of sandstone. MADE GROUND: Brown becoming black ashy clayey gravelly coarse sand. Gravel is fine to coarse sub-angular of clinker and bottles plastic metal wood newspapers and carpet.	0.40					
- 2.0 — - - - - - -		At 2.00m bgl wooden boards. Becoming grey clayey fine sand between 2.40m- 2.60m bgl.						
3.0			3.50					
- - - 1.0 —		Red weathered SANDSTONE.						
- - - -		Complete at 3.50m bgl.						
5.0 - - - - - - - -								
6.0								

<u>Key</u>

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub
N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Dimensions: 0.65m x 0.85m x 3.50m

Services: Prior to excavation the trial pit location was scanned with a Cable Avoidance Tool (CAT).

Stability: Stable

Groundwater: None encountered

Trial Pit Number: TP126

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: C. Radiven

Date Started: 08/04/13
Date Completed: 08/04/13
Elevation AOD (m): N/A
Co-ordinates: N/A

Excavation Method: JCB 3CX



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		SUBSURFACE PROFILE			SAMPLE	S AND II	N-SITU TESTIN	G
(mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75100	Field / Laboratory Testing
0		MADE GROUND: Brown gravelly clayey fine sand. Gravel is fine to coarse angular to subrounded of brick and sandstone. MADE GROUND: Black brown clayey gravelly coarse sand with many cobbles. Gravel is coarse sub-angular to sub-rounded of brick, bottles, metal, shoes, sheets, plastic, metal, newspaper, carpet, clinker and bones. Cobbles are sub-angular to sub-rounded of sandstone.	0.30					
0 -		Red SANDSTONE.	4.20 4.50					
0-		Complete at 4.50m bgl.						

<u>Notes</u>

Dimensions: 0.65m x 0.85m x 4.50m

U38. 38mm Undisturbed Sample

SPT. Standard Penetration Test

Services: Prior to excavation the trial pit location was scanned with a Cable Avoidance Tool (CAT).

U100. Blows (Recovery mm)

V. 40ml Glass Vial

Stability: Stable

Groundwater: None encountered

Date: 10/04/13

Status: Final

PID. Photo Ionisation Detector

ES. Environmental Sample

Trial Pit Number: TP127

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: C. Radiven

Date Started: 08/04/13
Date Completed: 08/04/13
Elevation AOD (m): N/A
Co-ordinates: N/A

Excavation Method: JCB 3CX



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		SUBSURFACE PROFILE			SAMPLE	S AND IN	-SITU TESTIN	G
Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75100	Field / Laboratory Testing
		MADE GROUND: Brown gravelly clayey fine to medium sand with many cobbles. Gravel is medium to coarse angular to sub-rounded of brick and sandstone. Cobbles are angular to sub-angular of brick.	0.80					
1.0-		MADE GROUND: Red brown becoming black ashy clayey gravelly fine to coarse sand. Gravel is coarse angular of sandstone, clinker and bottles.						
-		Red SANDSTONE bedrock.	2.50 2.70					
3.0		Complete at 2.70m bgl.						
4.0								
5.0								
6.0								

Key

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub
N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Dimensions: 0.65m x 0.85m x 2.70m

Services: Prior to excavation the trial pit location was scanned with a Cable Avoidance Tool (CAT).

Stability: Stable

Groundwater: None encountered

Trial Pit Number: TP128

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: C. Radiven

Date Started: 08/04/13
Date Completed: 08/04/13
Elevation AOD (m): N/A

Co-ordinates: N/A

Excavation Method: JCB 3CX



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	_	SUBSURFACE PROFILE			SAMPLE	S AND IN	N-SITU TESTING P.I.D (ppm) 0 25 50 75100 Testing		
Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	Water Level (mbgl)	(ppm)	Laboratory	
1.0		MADE GROUND: Brown gravelly clayey fine sand with some cobbles. Gravel is fine to coarse sub-angular to sub-rounded of coal brick and sandstone. Cobbles are sub-angular of brick.	1.60						
-		MADE GROUND: Black ashy clayey gravelly	1.00						
2.0		sand with many cobbles. Gravel is coarse angular to sub-angular of brick, sandstone, bottles, clinker, paper, shoes, metal, wood and carpet. Cobbles are sub-angular of brick and sandstone.		ES	2.00				
3.0				В	2.50				
4.0		At c. 4.80 Sandstone.	4.90						
5.0		Terminated at 4.80m bgl due to refusal on sandstone.	4.80						
6.0									

Key

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub
N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Dimensions: 0.65m x 0.85m x 4.80m

Services: Prior to excavation the trial pit location was scanned with a Cable Avoidance Tool (CAT).

Stability: Stable

Groundwater: None encountered

Trial Pit Number: TP129

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: C. Radiven

Date Started: 08/04/13
Date Completed: 08/04/13
Elevation AOD (m): N/A
Co-ordinates: N/A

Excavation Method: JCB 3CX



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		SUBSURFACE PROFILE			SAMPLE	S AND I	P.I.D (ppm) 0 25 50 75100 Testing	
Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	Water Level (mbgl)	(ppm)	Laboratory
1.0		MADE GROUND: Brown gravelly clayey fine sand. Gravel is sub-angular to sub-rounded of brick and sandstone.		ES	0.30			
- - - -		Sandstone boulder at 1.30m bgl.	1.60					
2.0		MADE GROUND: Black clayey ashy gravelly sand with some cobbles. Gravel is coarse angular to sub-angular of brick, sandstone, bottles, metal and plastic. Cobbles are subangular to sub-rounded of sandstone and brick.						
3.0				ES	3.00			
4.0		At c.4.80m Sandstone.		В	4.00			
			4.80					
5.0		Terminated at 4.80m bgl due to refusal.						

Key

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub
N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Dimensions: 0.65m x 0.85m x 4.80m

Services: Prior to excavation the trial pit location was scanned with a Cable Avoidance Tool (CAT).

Stability: Stable

Groundwater: None encountered

Trial Pit Number: TP130

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: C. Radiven

Date Started: 08/04/13
Date Completed: 08/04/13
Elevation AOD (m): N/A

Co-ordinates: N/A

Excavation Method: JCB 3CX



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		SUBSURFACE PROFILE			SAMPLE	S AND IN	N-SITU TESTIN	G
Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75100	Field / Laboratory Testing
- - - -		MADE GROUND: Yellow / grey brown gravelly clayey fine to coarse sand. Gravel is fine to coarse angular to sub-angular of metal glass brick and sandstone.	0.60					
1.0-		MADE GROUND: Red brown sub-angular to sub-rounded of sandstone boulders.						
2.0		MADE GROUND: Black clayey ashy gravelly fine to medium sand. Gravel is fine to coarse angular to sub-angular of metal, tiles, glass brick and sandstone.	1.50	ES	1.50			
-		Red weathered SANDSTONE.	2.50	ES	2.50			
3.0		Complete at 2.60m bgl.						
6.0								

Key

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub
N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Dimensions: 0.65m x 0.85m x 2.60m

Services: Prior to excavation the trial pit location was scanned with a Cable Avoidance Tool (CAT).

Stability: Stable

Groundwater: None encountered

Trial Pit Number: TP131

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: C. Radiven

Date Started: 08/04/13 Date Completed: 08/04/13 Elevation AOD (m): N/A Co-ordinates: N/A

Excavation Method: JCB 3CX



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		SUBSURFACE PROFILE			SAMPLE	S AND IN	N-SITU TESTIN	G
(mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75100	Field / Laboratory Testing
		MADE GROUND: Brown clayey gravelly fine sand. Gravel is fine to coarse sub-angular to sub-rounded of brick and sandstone. MADE GROUND: Red brown gravelly fine to coarse sand with some cobbles. Gravel is coarse sub-angular to sub-rounded of brick. Cobbles are sub-angular to angular of brick and sandstone.	1.20					
		Red SANDSTONE. Complete at 1.50m bgl.	1.50					
- - - - - - - -								
5.0 — - - - - - - - - - - - - -								

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm) V. 40ml Glass Vial

N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Dimensions: 0.65m x 0.85m x 1.50m

Services: Prior to excavation the trial pit location was scanned with a Cable Avoidance Tool (CAT).

Stability: Stable

Groundwater: None encountered

Trial Pit Number: TP132

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: C. Radiven

Date Started: 08/04/13 Date Completed: 08/04/13 Elevation AOD (m): N/A Co-ordinates: N/A

Excavation Method: JCB 3CX



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		SUBSURFACE PROFILE			SAMPLE	S AND IN	N-SITU TESTIN	G
(mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75100	Field / Laboratory Testing
		MADE GROUND: Grey concrete.	0.20					
- - - - -		Red very sandy clayey gravel with some cobbles. Gravel is medium to coarse subangular to angular of sandstone. Cobbles are sub-angular to angular of sandstone.	0.80	В	0.60			
1.0		\	1.00					
=	\	SANDSTONE bedrock.						
=		Complete at 1.00m bgl.						
_								
2.0								
=								
=								
_								
3.0								
=								
]								
_								
4.0								
-								
=								
-								
5.0								
=								
7								
=								
]								
6.0								
(ey	R Rul	k (Bag) D. Disturb	ned.			T. Plastic	Tub	

ulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm)

V. 40ml Glass Vial

N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Dimensions: 0.65m x 0.85m x 1.00m

Services: Prior to excavation the trial pit location was scanned with a Cable Avoidance Tool (CAT).

Stability: Stable

Groundwater: None encountered

Trial Pit Number: TP133

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: C. Radiven

Date Started: 08/04/13
Date Completed: 08/04/13
Elevation AOD (m): N/A
Co-ordinates: N/A

Excavation Method: JCB 3CX



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		SUBSURFACE PROFILE			SAMPLE	S AND IN	I-SITU TESTIN	G
Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75100	Field / Laboratory Testing
- - - - - - -		MADE GROUND: Red brown gravelly clayey fine to medium sand with some cobbles. Gravel is fine to coarse sub-angular to sub-rounded of brick and sandstone. Cobbles are angular to sub-rounded of brick and sandstone.						
1.0		MADE CROUND, Cross breasing group live spaces	1.10					
_		MADE GROUND: Grey brown gravelly coarse sand. Gravel is coarse angular of brick. Cobbles	1.30					
2.0		sub-angular to angular of brick. MADE GROUND: Red very sandy cobbly clayey gravel with some cobbles. Gravel is fine to coarse sub-angular to sub-rounded of sandstone. Cobbles are angular to sub-angular of sandstone. Roots at 1.30m bgl.	3.00					
_		gravel and cobbles.						
_			3.50					
- - -		Complete at 3.50m bgl.						
4.0								
=								
_								
_								
_								
5.0								
_								
_								
_								
_								
6.0							<u> </u>	

Key

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub
N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Dimensions: 0.65m x 0.85m x 3.50m

Services: Prior to excavation the trial pit location was scanned with a Cable Avoidance Tool (CAT).

Stability: Stable

Groundwater: None encountered

Trial Pit Number: TP134

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: C. Radiven

Date Started: 08/04/13
Date Completed: 08/04/13
Elevation AOD (m): N/A

Co-ordinates: N/A

Excavation Method: JCB 3CX



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		SUBSURFACE PROFILE			SAMPLE	S AND IN	-SITU TESTIN	G
Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75100	Field / Laboratory Testing
1.0		MADE GROUND: Brown gravelly clayey fine sand. Gravel is angular to sub-angular fine to coarse of brick and sandstone. Red very sandy GRAVELwith some cobbles. Gravel is fine to coarse angular to sub-rounded of sandstone. Cobbles are angular to sub-angular of sandstone.	0.20	ES	0.80			
- - - - - 2.0		Becoming yellow grey at 1.70m bgl.	2.00	В	1.70			
- - - -		Complete at 2.00m bgl on sandstone.						
3.0								
4.0								
5.0 —								

Key

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub
N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Dimensions: 0.65m x 0.85m x 2.00m

Services: Prior to excavation the trial pit location was scanned with a Cable Avoidance Tool (CAT).

Stability: Stable

Groundwater: None encountered

Trial Pit Number: TP135

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: C. Radiven

Date Started: 08/04/13 Date Completed: 08/04/13 Elevation AOD (m): N/A Co-ordinates: N/A

Excavation Method: JCB 3CX



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		SUBSURFACE PROFILE			SAMPLE	S AND IN	I-SITU TESTIN	G
Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75100	Field / Laboratory Testing
		MADE GROUND: Red brown gravelly clayey fine to medium sand. Gravel is fine to coarse angular to sub-rounded of sandstone and brick.	0.20					
I.O —		MADE GROUND: Red gravelly coarse fine to medium sand with some cobbles. Gravel is fine to coarse angular to sub-angular of brick and sandstone. Cobbles are sub-angular to angular of brick. Clay pipe at 0.45m.	0.60					
		Grey red SANDSTONE recovered as gravel and cobbles.	1.50					
2.0		Complete at 1.50m bgl.						
- - -								
3.0								
- - - -								
.0-								
- - -								
5.0								
- - - -								
3.0 -								

W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm)

V. 40ml Glass Vial

N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Dimensions: 0.65m x 0.85m x 1.50m

Services: Prior to excavation the trial pit location was scanned with a Cable Avoidance Tool (CAT).

Stability: Stable

Groundwater: None encountered

Trial Pit Number: TP136

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: C. Radiven

Date Started: 08/04/13
Date Completed: 08/04/13
Elevation AOD (m): N/A
Co-ordinates: N/A

Excavation Method: JCB 3CX



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		SUBSURFACE PROFILE			SAMPLE	S AND IN	-SITU TESTIN	G
Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75100	Field / Laboratory Testing
1.0-		MADE GROUND: Black asphalt. Red slightly clayey sandy GRAVEL with many cobbles. Gravel is coarse sub-angular of sandstone. Cobbles are angular to sub-angular sandstone. Becoming grey yellow at 1.10m bgl. Sandstone at 1.30m bgl.	1.50					
2.0		Complete at 1.50m bgl.						
3.0								
4.0								
5.0								
6.0-		lk (Rag) D. Disturb				T Plactic 3		

<u>Key</u>

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub
N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Dimensions: 0.65m x 0.85m x 1.50m

Services: Prior to excavation the trial pit location was scanned with a Cable Avoidance Tool (CAT).

Stability: Stable

Groundwater: None encountered

Trial Pit Number: TP137

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: C. Radiven

Date Started: 08/04/13

Date Completed: 08/04/13

Elevation AOD (m): N/A

Co-ordinates: N/A

Excavation Method: JCB 3CX



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		SUBSURFACE PROFILE			SAMPLE	S AND IN	I-SITU TESTIN	G
(mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75100	Field / Laboratory Testing
- - - - -		MADE GROUND: Grey concrete. Red clayey gravelly coarse SAND. Gravel is fine to coarse angular to sub-angular of sandstone.	0.20					
- - - - - -								
- - - - - 0.		Becoming sub-angular to rounded at 1.80m bgl.	2.00					
		Red grey SANDSTONE recovered as gravel and cobbles.	2.20					
- - - 0 —		Complete at 2.20m bgl.						
-								
- - - - - 0.								
-								
- - - - - 0.								
- - - -								
- - - 0								

Key

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub
N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Dimensions: 0.65m x 0.85m x 2.20m

Services: Prior to excavation the trial pit location was scanned with a Cable Avoidance Tool (CAT).

Stability: Stable

Groundwater: None encountered

Trial Pit Number: TP138

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: C. Radiven

Date Started: 08/04/13
Date Completed: 08/04/13
Elevation AOD (m): N/A
Co-ordinates: N/A

Excavation Method: JCB 3CX



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		SUBSURFACE PROFILE			SAMPLE	S AND IN	I-SITU TESTIN	G
Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75100	Field / Laboratory Testing
- - - - - -		MADE GROUND: Grey concrete. Red gravelly fine to coarse SAND. Gravel is coarse angular of sandstone.	0.20					
1.0-		Sandstone at 1.50m bgl.	1.50					
2.0	-	Complete at 1.50m bgl.						
3.0								
4.0	-							
5.0								
6.0								

Key

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub
N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Dimensions: 0.65m x 0.85m x 1.50m

Services: Prior to excavation the trial pit location was scanned with a Cable Avoidance Tool (CAT).

Stability: Stable

Groundwater: None encountered

Trial Pit Number: TP139

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: C. Radiven

Date Started: 08/04/13

Date Completed: 08/04/13

Elevation AOD (m): N/A

Co-ordinates: N/A

Excavation Method: JCB 3CX



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	SUBSURFACE PROFILE	\Box		SAMPLE	S AND IN	I-SITU TESTIN	G
Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75100	Field / Laboratory Testing
	MADE GROUND: Grey concrete.	0.20					
	Red gravelly fine to coarse SAND. Gravel is coarse angular of sandstone.						
	Sandstone at 1.50m bgl.	1.50					
	Complete at 1.50m bgl.						
	Puegen	Description MADE GROUND: Grey concrete. Red gravelly fine to coarse SAND. Gravel is coarse angular of sandstone. Sandstone at 1.50m bgl.	Depth of Strata (mbgl) MADE GROUND: Grey concrete. Red gravelly fine to coarse SAND. Gravel is coarse angular of sandstone. Sandstone at 1.50m bgl. 1.50	Depth of Strata (mbgl) MADE GROUND: Grey concrete. Red gravelly fine to coarse SAND. Gravel is coarse angular of sandstone. Sandstone at 1.50m bgl. Depth of Strata (mbgl) 0.20	Depth of Strata (mbgl) MADE GROUND: Grey concrete. Red gravelly fine to coarse SAND. Gravel is coarse angular of sandstone. Sandstone at 1.50m bgl. Depth of Strata (mbgl) Type Depth (mbgl) 1.50	Depth of Strata (mbgl) MADE GROUND: Grey concrete. Red gravelly fine to coarse SAND. Gravel is coarse angular of sandstone. Sandstone at 1.50m bgl. Depth of Strata (mbgl) Type Depth (mbgl) Water Level (mbgl) Strata (mbgl) 1.50	Depth of Strata (mbgl) MADE GROUND: Grey concrete. Red gravelly fine to coarse SAND. Gravel is coarse angular of sandstone. Sandstone at 1.50m bgl. Depth of Strata (mbgl) Type Depth (mbgl) Water Level (ppm) 0 25 50 75100

Key

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub
N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Dimensions: 0.65m x 0.85m x 1.50m

Services: Prior to excavation the trial pit location was scanned with a Cable Avoidance Tool (CAT).

Stability: Stable

Groundwater: None encountered

Trial Pit Number: TP140

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: C. Radiven

Date Started: 08/04/13
Date Completed: 08/04/13
Elevation AOD (m): N/A
Co-ordinates: N/A

Excavation Method: JCB 3CX



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		SUBSURFACE PROFILE			SAMPLE	S AND IN	I-SITU TESTIN	G
Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75100	Field / Laboratory Testing
		MADE GROUND: Black grey gravel. Gravel is coarse angular to sub-angular of asphalt. Grey / red gravelly coarse SAND. Gravel is fine to coarse sub-angular of sandstone. Becoming red at 0.80m bgl.		ES	0.80			
1.0		Decoming red at 0.00m bgr.	1.20	В	1.00			
2.0		Complete at 1.20m bgl on sandstone.						
-								
3.0								
4.0								
5.0								

Key

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub
N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Dimensions: 0.65m x 0.85m x 1.20m

Services: Prior to excavation the trial pit location was scanned with a Cable Avoidance Tool (CAT).

Stability: Stable

Groundwater: None encountered

Trial Pit Number: TP141

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: C. Radiven

Date Started: 08/04/13

Date Completed: 08/04/13

Elevation AOD (m): N/A

Co-ordinates: N/A

Excavation Method: JCB 3CX



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		SUBSURFACE PROFILE			SAMPLE	S AND IN	-SITU TESTIN	G
Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75100	Field / Laboratory Testing
		MADE GROUND: Grey concrete.	0.30					
_		Grey red clayey fine to coarse SAND.	0.50					
1.0		Red gravelly fine to coarse SAND with many cobbles. Gravel is fine to coarse angular to subangular of sandstone. Cobbles are angular to sub-angular sandstone.	1.30					
	ta Algeria Algeria A		1.50					
- - - -		Complete at 1.30m bgl on sandstone.						
2.0								
- - -								
3.0								
- - -								
- - -								
4.0								
-								
5.0								
- - -								
- - - -								
6.0								
Key	, B.Bu	k (Bag) D. Disturbe	ed e		•	T. Plastic 1	- Tuh	

<u>Key</u>

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub
N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Dimensions: 0.65m x 0.85m x 1.30m

Services: Prior to excavation the trial pit location was scanned with a Cable Avoidance Tool (CAT).

Stability: Stable

Groundwater: None encountered

Trial Pit Number: TP142

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: C. Radiven

Date Started: 08/04/13
Date Completed: 08/04/13
Elevation AOD (m): N/A

Excavation Method: JCB 3CX

Co-ordinates: N/A



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	SUBSURFACE PROFILE			SAMPLE	S AND IN	-SITU TESTIN	G
Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75100	Field / Laboratory Testing
	MADE GROUND: Grey concrete.	0.20					
	Grey red gravelly fine to coarse SAND. Gravel is coarse sub-angular to angular of sandstone. Red brown gravelly fine to coarse SAND with many cobbles. Gravel is coarse angular to sub-angular of sandstone. Cobbles are angular to sub-angular of sandstone.	0.45					
		2.50					
	Complete at 2.50m bgl.						
	pueden	Description MADE GROUND: Grey concrete. Grey red gravelly fine to coarse SAND. Gravel is coarse sub-angular to angular of sandstone. Red brown gravelly fine to coarse SAND with many cobbles. Gravel is coarse angular to sub-angular of sandstone. Cobbles are angular to sub-angular of sandstone.	Depth of Strata (mbgl) MADE GROUND: Grey concrete. Grey red gravelly fine to coarse SAND. Gravel is coarse sub-angular to angular of sandstone. Red brown gravelly fine to coarse SAND with many cobbles. Gravel is coarse angular to sub-angular of sandstone. Cobbles are angular to sub-angular of sandstone. 2.50	Depth of Strata (mbgl) MADE GROUND: Grey concrete. Grey red gravelly fine to coarse SAND. Gravel is coarse sub-angular to angular of sandstone. Red brown gravelly fine to coarse SAND with many cobbles. Gravel is coarse angular to sub-angular of sandstone. Cobbles are angular to sub-angular of sandstone. 2.50	Depth of Strata (mbgl) MADE GROUND: Grey concrete. Grey red gravelly fine to coarse SAND. Gravel is coarse sub-angular to angular of sandstone. Red brown gravelly fine to coarse SAND with many cobbles. Gravel is coarse angular to sub-angular of sandstone. Cobbles are angular to sub-angular of sandstone. 2.50	Depth of Strata (mbgl) MADE GROUND: Grey concrete. Grey red gravelly fine to coarse SAND. Gravel is coarse sub-angular to angular of sandstone. Red brown gravelly fine to coarse SAND with many cobbles. Gravel is coarse angular to sub-angular of sandstone. Cobbles are angular to sub-angular of sandstone. 2.50	Depth of Strata (mbgl) MADE GROUND: Grey concrete. Grey red gravelly fine to coarse SAND. Gravel is coarse sub-angular to angular of sandstone. Red brown gravelly fine to coarse angular to sub-angular of sandstone. Cobbles are angular to sub-angular of sandstone. 2.50

<u>Key</u>

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub
N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Dimensions: 0.65m x 0.85m x 2.50m

Services: Prior to excavation the trial pit location was scanned with a Cable Avoidance Tool (CAT).

Stability: Stable

Groundwater: None encountered

Trial Pit Number: TP143

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: C. Radiven

Date Started: 08/04/13

Date Completed: 08/04/13

Elevation AOD (m): N/A

Co-ordinates: N/A

Excavation Method: JCB 3CX



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		SUBSURFACE PROFILE			SAMPLE	S AND IN	-SITU TESTIN	G
Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75100	Field / Laboratory Testing
1.0		MADE GROUND: Grey concrete. MADE GROUND: Red sandy cobbles. Cobbles are angular to sub-angular of brick. MADE GROUND: Grey concrete. Red gravelly SAND. Gravel is coarse sub-angular of sandstone.	0.80					
2.0		At c.2.50m Red weathered SANDSTONE.	2.50					
3.0		Complete at 2.50m bgl.						
4.0								
5.0 — - - - - - - - -								
6.0								

<u>Key</u>

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub
N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Dimensions: 0.65m x 0.85m x 2.50m

Services: Prior to excavation the trial pit location was scanned with a Cable Avoidance Tool (CAT).

Stability: Stable

Groundwater: None encountered

Trial Pit Number: TP144

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: C. Radiven

Date Started: 08/04/13
Date Completed: 08/04/13
Elevation AOD (m): N/A
Co-ordinates: N/A

Excavation Method: JCB 3CX



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		SUBSURFACE PROFILE			SAMPLE	S AND IN	-SITU TESTIN	G
Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75100	Field / Laboratory Testing
- - - - -		MADE GROUND: Brown gravelly clayey fine sand. Gravel is fine to coarse angular to subangular of brick and sandstone. Red sandy gravelly cobbles. Cobbles are subangular to sub-rounded of sandstone.	0.20					
1.0		At c. 1.30m Red weathered SANDSTONE.	1.30					
-		Complete at 1.30m bgl.						
2.0 -								
-								
3.0								
- - -								
- - 4.0 —								
4.0 - - -								
- - -								
5.0 -								
-								
6.0 -								

Key

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub
N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Dimensions: 0.65m x 0.85m x 1.30m

Services: Prior to excavation the trial pit location was scanned with a Cable Avoidance Tool (CAT).

Stability: Stable

Groundwater: None encountered

Trial Pit Number: TP145

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: C. Radiven

Date Started: 08/04/13

Date Completed: 08/04/13

Elevation AOD (m): N/A

Co-ordinates: N/A

Excavation Method: JCB 3CX



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		SUBSURFACE PROFILE			SAMPLE	S AND IN	I-SITU TESTIN	G
Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75100	Field / Laboratory Testing
- - - - -		MADE GROUND: Red brown gravelly clayey fine to coarse sand. Gravel is fine to coarse subangular to angular of asphalt and brick. Red brown gravelly sandy cobbles. Cobbles are angular to sub-angular of sandstone.	0.30					
1.0			1.20					
- - - -		Complete at 1.20m bgl.						
2.0								
- - -								
3.0								
-								
4.0								
- - -								
5.0								
-								
6.0								

Key

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub
N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Dimensions: 0.65m x 0.85m x 1.20m

Services: Prior to excavation the trial pit location was scanned with a Cable Avoidance Tool (CAT).

Stability: Stable

Groundwater: None encountered

Probehole Number: WS101

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: B. Gichanga

Date Started: 04/04/13 Date Completed: 04/04/13 Elevation AOD (m): N/A

Co-ordinates: N/A

Drilling Equipment: Mini tracked window sampler rig



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		SUBSURFACE PROFILE		S	AMPLES A	AND IN-SITU TESTIN	G	
Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitoring Installatio / Backfill
-		MADE GROUND: Dark brown slightly gravelly clayey fine to medium sand. Gravel is sub-angular to angular medium to coarse of sandstone and siltstone.	0.80	ES	0.30			
- 1.0 - - - -		MADE GROUND: Medium dense dark brown / black slightly gravelly ashy fine to medium sand with clinker and fragments of glass plastic wood and fabric. Gravel is medium to coarse sub-angular to angular of sandstone and siltstone.		SPT	1.00-1.45	4/3/3/3/2/2 N= 10		
-				ES	1.70			
2.0 — - - - - - -				SPT	2.00-2.45	2/1/3/3/3/3 N= 11		
3.0 - -		Below c. 3.00m bgl becomes very dense.	3.10	SPT	3.00-3.10	14/11 for 20mm 50 for 10mm N= 50		:. ==
-		Terminated at 3.10m bgl on sandstone.						
5.0 — - - - -								
- - - 3.0 —								

<u>Key</u>

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test

D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm) V. 40ml Glass Vial

T. Plastic Tub N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Groundwater: None encountered

Services: Prior to drilling the location was scanned with a cable avoidance tool (CAT).

Additon of water: None added Casing diameter: 110mm

Date logged: 09/04/13

Probehole Number: WS102

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: B. Gichanga

Date Started: 04/04/13 Date Completed: 04/04/13 Elevation AOD (m): N/A

Co-ordinates: N/A

Drilling Equipment: Mini tracked window sampler rig



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		SUBSURFACE PROFILE		9	SAMPLES A	ND IN-SITU TESTIN	IG	
Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitorino Installation / Backfill
- - - -		MADE GROUND: Topsoil. Dark brown clayey fine to medium sand.	0.50	ES	0.20			
- - -		MADE GROUND: Loose dark brown black gravelly ashy clayey fine to medium sand with clinker. Gravel		ES	0.60			
1.0		is sub-angular to angular of sandstone.		SPT	1.00-1.45	2/3/3/1/1/0 N= 4		
2.0		Medium dense at c2.00m bgl.	2.40	SPT	2.00-2.45	5/2/2/3/4/8 N= 17		
_		Reddish brown gravelly fine to medium SAND. Gravel is sub-angular to angular of sandstone.		ES	2.60			
3.0		Below c. 3.00m bgl becomes very dense.	3.33	SPT	3.00-3.33	12/13 for 60mm 18/18/14 for 50mm N= 50		
- - -		Terminated at 3.33m bgl on sandstone.						
4.0								
5.0								
-								
6.0								

Key

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test

D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Groundwater: None encountered

Services: Prior to drilling the location was scanned with a cable avoidance tool (CAT).

Additon of water: None added Casing diameter: 110mm

Date logged: 09/04/13

Probehole Number: WS103

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: B. Gichanga

Date Started: 04/04/13 Date Completed: 04/04/13 Elevation AOD (m): N/A

Co-ordinates: N/A

Drilling Equipment: Mini tracked window sampler rig



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		SUBSURFACE PROFILE		S	SAMPLES A	AND IN-SITU TESTIN	IG	
Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitorino Installation / Backfill
- - - - - -		MADE GROUND: Soft to firm dark brown slightly ashy gravelly sandy clay. Gravel is sub-angular to angular medium to coarse of sandstone.	1.00	ES	0.70			
1.0-		MADE GROUND: Loose black very gravelly slightly ashy sand with clinker. Gravel is medium to coarse sub-angular to angular of sandstone	1.00	SPT	1.00-1.45	2/1/2/1/1/1 N= 5		
2.0		At c.2.00m Very loose.		SPT	2.00-2.45	1/0/0/0/0/0 N= 0		
3.0		Below c.3.00m bgl becomes medium dense.		SPT	3.00-3.45	6/8/9/4/3/2 N= 18		
4.0			4.50	SPT	4.00-4.45	1/1/1/1/1/12 N= 15		
- - -		Very dense reddish brown gravelly fine to medium SAND. Gravel is medium to coarse sub-angular to angular of sandstone.		ES	4.70			
5.0		Terminated at 5.10m bgl on sandstone.	5.10	SPT	5.00-5.10	25 for 65mm 50 for 30mm N= 50		

Key

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test

D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm) V. 40ml Glass Vial

T. Plastic Tub N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Groundwater: None encountered

Services: Prior to drilling the location was scanned with a cable avoidance tool (CAT).

Additon of water: None added Casing diameter: 110mm

Date logged: 09/04/13

Probehole Number: WS104

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: B. Gichanga

Date Started: 04/04/13 Date Completed: 04/04/13 Elevation AOD (m): N/A

Co-ordinates: N/A

Drilling Equipment: Mini tracked window sampler rig



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		SUBSURFACE PROFILE		S	SAMPLES A	AND IN-SITU TESTIN	G	
Deptn (mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitorin Installatio / Backfill
-		MADE GROUND: Topsoil. Dark brown slightly clayey fine to medium sand.	0.40	ES	0.20			
-		MADE GROUND: Medium dense black ash with clinker and occasional fragments of glass and plastic.						
1.0			4.00	SPT	1.00-1.45	1/0/0/0/0/10 N= 10		
_	***************************************	Very dense reddish brown / black gravelly fine to	1.30	SPT	1.40-1.41	25 for 10mm 50 for 5mm N= 50		
- - -	\	medium SAND. Gravel is sub-angular to rounded medium to coarse of sandstone.				N= 33		
2.0 - -		Terminated at 1.41m bgl on sandstone.						
-								
3.0 - - - - -								
- - -								
4.0 — - - -								
-								
5.0 -								
-								
- 6.0 <i>-</i>								

Key

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test

D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm) V. 40ml Glass Vial

T. Plastic Tub N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Groundwater: None encountered

Services: Prior to drilling the location was scanned with a cable avoidance tool (CAT).

Additon of water: None added Casing diameter: 110mm

Date logged: 09/04/13

Probehole Number: WS105

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: B. Gichanga

Date Started: 04/04/13 Date Completed: 04/04/13 Elevation AOD (m): N/A

Co-ordinates: N/A

Drilling Equipment: Mini tracked window sampler rig



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		SUBSURFACE PROFILE		S	SAMPLES A	AND IN-SITU TESTIN	G	
Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitorine Installatio / Backfill
1.0		MADE GROUND: Topsoil. Soft to firm dark brown fine to medium sandy clay. MADE GROUND: Reddish brown gravelly slightly clayey fine to medium sand with lenses of ash with clinker. Gravel is sub-angular to angular medium to coarse of sandstone. (Pocket of firm to stiff mottled sandy clay at 0.60-0.80m bgl)	0.20	ES SPT	0.40	2/2/1/2/2/3 N= 8		
- - - 2.0 — - - - -		MADE GROUND: Loose black ash with clinker and occasional fragments of glass plastic wood and fabric.		SPT	2.00-2.45	0/0/1/1/2/1 N= 5		
- 3.0 <u>-</u>				SPT	3.00-3.45	6/3/2/2/2/1 N= 7		
4.0 — - - - - - - - -			4.60	SPT	4.00-4.45	Sunk N= N/A		
-		Very dense reddish brown gravelly fine to medium SAND. Gravel is sub-angular to angular medium to	4.91	ES	4.70			
5.0 -		coarse of sandstone.		SPT	4.90-4.91	35 for 70mm 50 for 5mm N= 50		
- - - - - - - - -		Terminated at 4.90m bgl on sandstone.						

<u>Key</u>

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test

D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm) V. 40ml Glass Vial

T. Plastic Tub N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Groundwater: None encountered

Services: Prior to drilling the location was scanned with a cable avoidance tool (CAT).

Additon of water: None added Casing diameter: 110mm

Date logged: 09/04/13

Probehole Number: WS106

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: B. Gichanga

Date Started: 04/04/13 Date Completed: 04/04/13 Elevation AOD (m): N/A

Co-ordinates: N/A

Drilling Equipment: Mini tracked window sampler rig



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		SUBSURFACE PROFILE		S	SAMPLES A	ND IN-SITU TESTIN	IG .	
Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitoring Installatio / Backfill
=		MADE GROUND: Dark brown gravelly slightly clayey fine to medium sand. Gravel is medium to coarse sub-angular to angular of sandstone.	0.40	ES	0.20			
1.0 - - 1.0 - -		MADE GROUND: Loose dark brown black gravelly ashy fine to medium sand with clinker. Gravel is subangular to angular of sandstone.	1.40	ES SPT	0.90 1.00-1.45	1/00/1/0/6 N= 7		
- - - -		Very dense reddish brown gravelly fine to medium SAND. Gravel is sub-angular to angular medium to coarse of sandstone.		ES	1.50			
2.0			2.10	SPT	2.00-2.10	25 for 50mm/ 50 for 40mm N= 50		
3.0		Terminated at 2.10m bgl on sandstone.						
4.0								
- - - - 5.0 — - -								
6.0 —		Bulk (Bag) D. Disturbed				T. Plastic Tub		

<u>Key</u>

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test

D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm) V. 40ml Glass Vial

T. Plastic Tub N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Groundwater: None encountered

Services: Prior to drilling the location was scanned with a cable avoidance tool (CAT).

Additon of water: None added Casing diameter: 110mm

Date logged: 09/04/13

Probehole Number: WS107

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: B. Gichanga

Date Started: 04/04/13 Date Completed: 04/04/13 Elevation AOD (m): N/A

Co-ordinates: N/A

Drilling Equipment: Mini tracked window sampler rig



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		SUBSURFACE PROFILE		9	SAMPLES A	ND IN-SITU TESTIN	IG	
Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitoring Installation / Backfill
- - - -		MADE GROUND: Dark brown gravelly slightly clayey fine to medium sand. Gravel is medium to coarse sub-angular to angular of sandstone.	0.45	ES	0.40			
1.0		MADE GROUND: Very loose dark brown black gravelly ashy fine to medium sand. Gravel is medium to coarse sub-angular to sub-rounded of sandstone.		SPT	1.00-1.45	1/0/0/0/0/0 N= 0		
- - - -		Very dense reddish brown gravelly fine to medium	1.70	ES ES SPT	1.50 1.70 1.80-1.81	25 for 50mm/ 50 for		
2.0		SAND. Gravel is medium to coarse sub-angular to angular of sandstone.				40mm N= 50		
- - - -		Terminated at 1.81m bgl on sandstone.						
3.0								
4.0								
5.0								
- - - -								
6.0								

Key

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test

D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm) V. 40ml Glass Vial

T. Plastic Tub N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Groundwater: None encountered

Services: Prior to drilling the location was scanned with a cable avoidance tool (CAT).

Additon of water: None added Casing diameter: 110mm

Date logged: 09/04/13

Probehole Number: WS108

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: B. Gichanga

Date Started: 05/04/13 Date Completed: 05/04/13 Elevation AOD (m): N/A

Co-ordinates: N/A Drilling Equipment: Mini tracked window sampler rig



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		SUBSURFACE PROFILE		9	SAMPLES A	AND IN-SITU TESTIN	IG	
(mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitorin Installatio / Backfil
-		MADE GROUND: Dark brown gravelly slightly clayey fine to medium sand. Gravel is sub-angular to angular of sandstone.	0.70	ES	0.20			
- - - - -		MADE GROUND: Very loose dark brown black gravelly ashy fine to medium sand with lenses of clinker. Gravel is sub-angular to angular of sandstone.		SPT	1.00-1.45	1/0/0/0/0/0 N= 0		
- - -				ES	1.50			
0. 				SPT	2.00-2.45	1/0/0/0/0/0 N= 0		
0 -			3.20	SPT	3.00-3.45	2/0/1/0/1/0 N= 2		
		MADE GROUND: Very loose black ash with clinker and occasional fragments of glass, plastic and wood.		ES	3.30			
0 -			4.00	SPT	4.00-4.45	0/0/0/0/0/0 N= 0		
-	*****	Very dense reddish brown gravelly fine to medium SAND. Gravel is sub-angular to angular of sandstone.	4.30	ES SPT	4.40 4.50-4.57	23/2 for 5mm / 50 for 60mm N= 50		
0		Terminated at 4.57m bgl on sandstone.						
0-								

<u>Key</u>

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test

D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm) V. 40ml Glass Vial

T. Plastic Tub N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Groundwater: None encountered

Services: Prior to drilling the location was scanned with a cable avoidance tool (CAT).

Additon of water: None added Casing diameter: 110mm

Date logged: 09/04/13

Probehole Number: WS109

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: B. Gichanga

Date Started: 05/04/13 Date Completed: 05/04/13

Elevation AOD (m): N/A

Co-ordinates: N/A

Drilling Equipment: Mini tracked window sampler rig



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		SUBSURFACE PROFILE		S	SAMPLES A	AND IN-SITU TESTIN	G	
Deptn (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitorin Installatio / Backfil
- - -		MADE GROUND: Topsoil. Dark brown gravelly slightly clayey fine to medium sand. Gravel is medium to coarse sub-angular to angular of sandstone.	0.45	ES	0.20			
- -		Very dense reddish brown gravelly fine to medium SAND. Gravel is medium to coarse sub-angular to angular of sandstone.	0.90	ES SPT	0.50 0.90-1.04	25 for 75mm/ 50 for 65mm N= 50 for 65mm		
1.0 — - - - -		Terminated at 0.90m bgl on sandstone.						
- - - -								
2.0 — - - - -								
- - - -								
3.0 - - - - -								
- - -								
4.0 — - - - -								
- - - -								
5.0 — - - - -								
- - - - 6.0								

W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm)

V. 40ml Glass Vial

N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Groundwater: None encountered

Services: Prior to drilling the location was scanned with a cable avoidance tool (CAT).

Additon of water: None added Casing diameter: 110mm

Date logged: 09/04/13

Probehole Number: WS110 A

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: B. Gichanga

Date Started: 05/04/13 Date Completed: 05/04/13 Elevation AOD (m): N/A

Co-ordinates: N/A

Drilling Equipment: Mini tracked window sampler rig



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		SUBSURFACE PROFILE		S	SAMPLES A	ND IN-SITU TESTIN	NG	
Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitorino Installation / Backfill
 - - - -		MADE GROUND: Topsoil. Dark brown gravelly slightly clayey fine to medium sand. Gravel is fine to medium sub-angular to angular of sandstone.	0.57	ES SPT	0.20 0.50-0.57	25 for 30mm/ 50 for 40mm N= 50		
1.0		Very dense reddish brown gravelly fine to medium SAND. Gravel is sub-angular to angular of sandstone.						
- - - -		Terminated at 0.57m bgl on sandstone.						
2.0								
- - - -								
3.0								
- - - -								
4.0								
5.0								
- - - -								
6.0								

<u>Key</u>

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test

D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Groundwater: None encountered

Services: Prior to drilling the location was scanned with a cable avoidance tool (CAT).

Additon of water: None added Casing diameter: 110mm

Date logged: 09/04/13

Probehole Number: WS110 B

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: B. Gichanga

Date Started: 05/04/13 Date Completed: 05/04/13 Elevation AOD (m): N/A Co-ordinates: N/A

Drilling Equipment: Mini tracked window sampler rig



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		SUBSURFACE PROFILE		9	SAMPLES A	AND IN-SITU TESTIN	G	
Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitorino Installation / Backfill
- - -		MADE GROUND: Topsoil. Dark brown gravelly slightly ashy clayey fine to medium sand. Gravel is medium to coarse sub-angular to angular of	0.40	ES	0.20			
_		sandstone.		ES	0.50			
1.0		Very dense reddish brown gravelly fine to medium SAND. Gravel is sub-angular to angular of sandstone.		SPT	1.00-1.45	6/9/9/10/14/17 for 50mm N= 50 for 275mm		
-			1.45					
- - - -		Terminated at 1.45 on sandstone.						
2.0								
-								
_								
-								
3.0								
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4.0								
-								
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=								
5.0								
-								
-								
-								
6.0 – Ke v								

Key

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test

D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Groundwater: None encountered

Services: Prior to drilling the location was scanned with a cable avoidance tool (CAT).

Additon of water: None added Casing diameter: 110mm

Date logged: 09/04/13

Probehole Number: WS111

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: B. Gichanga

Date Started: 05/04/13 Date Completed: 05/04/13 Elevation AOD (m): N/A

Co-ordinates: N/A

Drilling Equipment: Mini tracked window sampler rig



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		SUBSURFACE PROFILE		93	SAMPLES A	ND IN-SITU TESTIN	IG	
Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitoring Installation / Backfill
- - - -		MADE GROUND: Dark brown gravelly slightly ashy clayey fine to medium sand. Gravel is medium to coarse sub-angular to angular of sandstone.	0.40	ES	0.40			
1.0		Loose reddish brown gravelly fine to medium SAND. Gravel is medium to coarse sub-angular to angular of sandstone.		SPT	1.00-1.45	1/1/1/1/1 N= 4		
- - -		Becoming damp at 1.30-1.80m.		ES	1.40	25 for 75mm/ 50 for		
_		At c.1.70m Very dense.	1.80	SPT	1.70-1.79	25 for 75mm/ 50 for 10mm N= 50		
2.0		Terminated at 1.80m bgl on sandstone.						
- -								
-								
-								
3.0								
-								
-								
4.0								
4.0 - -								
=								
-								
5.0								
=								
=								
-								
6.0								

Key

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test

D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Groundwater: None encountered

Services: Prior to drilling the location was scanned with a cable avoidance tool (CAT).

Additon of water: None added Casing diameter: 110mm

Date logged: 09/04/13

Probehole Number: WS112

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: B. Gichanga

Date Started: 05/04/13 Date Completed: 05/04/13 Elevation AOD (m): N/A

Co-ordinates: N/A

Drilling Equipment: Mini tracked window sampler rig



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		SUBSURFACE PROFILE		S	SAMPLES A	ND IN-SITU TESTIN	IG	
Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitorino Installation / Backfill
		MADE GROUND: Concrete.	0.20					
- - - -		Very dense reddish brown gravelly fine to medium SAND. Gravel is medium to coarse sub-angular to angular of sandstone.		ES	0.30			
1.0-			1.10	SPT	1.00-1.10	25 for 75mm / 50 for 20mm N= 50		
- - -		Terminated at 1.10m bgl on sandstone.						
- - -								
2.0								
-								
- - -								
3.0								
- - -								
4.0								
4.0 - -								
- - -								
5.0								
- - -								
-								
6.0								

<u>Key</u>

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test

D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Groundwater: None encountered

Services: Prior to drilling the location was scanned with a cable avoidance tool (CAT).

Additon of water: None added Casing diameter: 110mm

Date logged: 09/04/13

Probehole Number: WS113

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: B. Gichanga

Date Started: 05/04/13 Date Completed: 05/04/13 Elevation AOD (m): N/A

Co-ordinates: N/A

Drilling Equipment: Mini tracked window sampler rig



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		SUBSURFACE PROFILE	_	S	SAMPLES A	ND IN-SITU TESTIN	IG	
Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitorin Installatio / Backfill
1.0		MADE GROUND: Reddish brown gravelly slightly clayey ashy fine to medium sand. Gravel is medium to coarse sub-angular to angular of concrete and sandstone. Very dense reddish brown gravelly fine to medium SAND. Gravel is medium to coarse sub-angular to angular of sandstone. Terminated at 1.03m bgl on sandstone.	1.03	ES ES SPT	0.50 0.70 1.00-1.03	20/5 for 10mm/ 50 for 20mm N=50		
- - 2.0 — - - - - - -								
3.0 —								
- - - - - - 5.0 —								
6.0 –		Bulk (Bag) D. Disturbed				T. Plastic Tub		

W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm) V. 40ml Glass Vial

N. 'N' Value HV. Hand Shear Vane

PID. Photo Ionisation Detector ES. Environmental Sample

Notes Groundwater: None encountered

Services: Prior to drilling the location was scanned with a cable avoidance tool (CAT).

Additon of water: None added Casing diameter: 110mm

Date logged: 09/04/13

Probehole Number: WS114

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: B. Gichanga

Date Started: 05/04/13 Date Completed: 05/04/13 Elevation AOD (m): N/A

Co-ordinates: N/A

Drilling Equipment: Mini tracked window sampler rig



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		SUBSURFACE PROFILE		S	SAMPLES A	ND IN-SITU TESTIN	IG	
Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitoring Installatio / Backfill
- - - - -		MADE GROUND: Asphalt. MADE GROUND: Grey brown slightly ashy very gravelly fine to medium sand. Gravel is medium to coarse sub-angular to angular of sandstone and	0.40	ES ES	0.20 0.50			
1.0		very dense reddish brown gravelly fine to medium	1.09	SPT	1.00-1.09	25 for 75mm / 50 for 10mm N= 50		
- - - -		SAND. Gravel is medium to coarse sub-angular to angular of sandstone.						
2.0		Terminated at 1.09m bgl on sandstone.						
- - - -								
3.0								
- - - -								
4.0								
_ _ _ _								
5.0								
- - - -								
6.0								

W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm) V. 40ml Glass Vial

N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Groundwater: None encountered

Services: Prior to drilling the location was scanned with a cable avoidance tool (CAT).

Additon of water: None added Casing diameter: 110mm

Date logged: 09/04/13

Probehole Number: WS115

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: B. Gichanga

Date Started: 08/04/13 Date Completed: 08/04/13 Elevation AOD (m): N/A

Co-ordinates: N/A

Drilling Equipment: Mini tracked window sampler rig



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		SUBSURFACE PROFILE		S	SAMPLES A	AND IN-SITU TESTIN	G	
Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitorin Installatio / Backfil
		MADE GROUND: Concrete.	0.20	ES	0.30			
- - - -		Very dense reddish brown gravelly fine to medium SAND. Gravel is medium to coarse sub-angular to angular of sandstone.		SPT		8/11/13/17/20 for 70mm		
1.0			1.37	581	1.00-1.37	N= 50 for 220mm		
_	\$4.75,044.75,0		1.07					
-		Terminated at 1.37m bgl on sandstone.						
2.0								
-								
-								
3.0 -								
-								
-								
-								
4.0 — - -								
-								
-								
5.0								
-								
-								
- - 6.0 -								

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm) V. 40ml Glass Vial

N. 'N' Value HV. Hand Shear Vane

PID. Photo Ionisation Detector ES. Environmental Sample

Notes Groundwater: None encountered

Services: Prior to drilling the location was scanned with a cable avoidance tool (CAT).

Additon of water: None added Casing diameter: 110mm

Date logged: 09/04/13

Probehole Number: WS116

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: B. Gichanga

Date Started: 08/04/13 Date Completed: 08/04/13 Elevation AOD (m): N/A

Co-ordinates: N/A

Drilling Equipment: Mini tracked window sampler rig



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		SUBSURFACE PROFILE		S	SAMPLES A	AND IN-SITU TESTIN	G	
Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitorine Installatio / Backfill
		MADE GROUND: Concrete.	0.30					
- - - -		MADE GROUND: Very loose dark brown very gravelly slightly clayey fine to medium sand. Gravel is medium to coarse sub-angular to angular of sandstone and		ES	0.40			
1.0		concrete.	1.20	SPT	1.00-1.45	1/0/1/0/0/0 N= 1		
- - - -		Very dense reddish brown gravelly fine to medium SAND. Gravel is medium to coarse sub-angular to angular of sandstone.		ES	1.30			
2.0			2.00	SPT	2.00-2.45	6/7/13/13/13/13/11 for 60mm N= 50 for 225mm		
- - - - -		Terminated at 2.00m bgl refusal on sandstone.						
3.0								
4.0								
5.0								
6.0								

Key

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test

D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm) V. 40ml Glass Vial

T. Plastic Tub N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Groundwater: None encountered

Services: Prior to drilling the location was scanned with a cable avoidance tool (CAT).

Additon of water: None added Casing diameter: 110mm

Date logged: 09/04/13

Probehole Number: WS117

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: B. Gichanga

Date Started: 08/04/13 Date Completed: 08/04/13 Elevation AOD (m): N/A

Co-ordinates: N/A

Drilling Equipment: Mini tracked window sampler rig



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		SUBSURFACE PROFILE		9	SAMPLES A	ND IN-SITU TESTII	NG	
Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitorin Installatio / Backfill
		MADE GROUND: Concrete.	0.20	ES	0.30			
- - -		MADE GROUND: Dark brown very gravelly slightly clayey ashy fine to medium sand. Gravel is medium to coarse sub-angular to angular of sandstone and	0.60	ES	0.60			
1.0		concrete.		SPT	1.00-1.45	1/2/2/2/19/23/27 for 60mm N= 50		
- - -		MADE GROUND: Reddish brown gravelly fine to medium sand. Gravel is medium to coarse subangular to angular of sandstone and concrete.	1.45			60IIIII N= 50		
2.0		Very dense reddish brown very gravelly fine to medium SAND. Gravel is medium to coarse subangular to angular of sandstone.	1.43					
- - -		Terminated at 1.45m bgl on sandstone.						
3.0 -								
- - -								
- 4.0 <i>-</i>								
- - -								
- - -								
5.0 -								
- - -								
- - - -								
6.0 – Key		Bulk (Bag) D. Disturbed				T. Plastic Tub		

лк (вад) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm) V. 40ml Glass Vial

N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Groundwater: None encountered

Services: Prior to drilling the location was scanned with a cable avoidance tool (CAT).

Additon of water: None added Casing diameter: 110mm

Date logged: 09/04/13

Probehole Number: WS118

Project Number: 44808

Contract Name: Gateacre High School, Liverpool

Client: Countryside Properties

Engineer: B. Gichanga

Date Started: 08/04/13 Date Completed: 08/04/13 Elevation AOD (m): N/A

Co-ordinates: N/A

Drilling Equipment: Mini tracked window sampler rig



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		SUBSURFACE PROFILE		S	SAMPLES A	AND IN-SITU TESTIN	G	
Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Туре	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitorino Installation / Backfill
- - - -		MADE GROUND: Soft to firm dark brown gravelly sandy clay. Gravel is sub-angular to angular medium to coarse of sandstone.	0.60	ES	0.20			
- - - - 1.0		Very dense reddish brown gravelly fine to medium sand. Gravel is medium to coarse sub-angular to angular of sandstone.	1.00	ES SPT	0.60 1.00-1.45	7/8/50 for 50mm N= 50		
- - - -		Terminated at 1.00m bgl on sandstone.						
2.0								
- - - -								
3.0								
- - - -								
4.0								
5.0								
- - - -								
6.0								

<u>Key</u>

B. Bulk (Bag) W. Water

U100. 100mm Undisturbed U38. 38mm Undisturbed Sample SPT. Standard Penetration Test

D. Disturbed

G. Amber Glass Jar / Bottle CPT. Cone Penetration Test U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub N. 'N' Value

HV. Hand Shear Vane PID. Photo Ionisation Detector ES. Environmental Sample

Notes Groundwater: None encountered

Services: Prior to drilling the location was scanned with a cable avoidance tool (CAT).

Additon of water: None added Casing diameter: 110mm

Date logged: 09/04/13

Norwest Holst Soil Engineering Ltd. **BOREHOLE LOG - CABLE PERCUSSION**

Hole ID. **BH01**

Header

Contract No.

F13512

Method

Cable Percussion

Coordinates

Project

Gateacre School, Liverpool

Drilling Rig

Dando 150

Ground Level

Vertical

Client

Liverpool City Council

Driller Logged by SL

Orientation

Consultant

WSP

JΒ

Date Started

07/10/2004

Date Completed

07/10/2004

			PROGRESS	<u> </u>				RING DETAIL	S
Date	Time	Hole depth	Casing depth	Water depth	Remarks	Hard Strata from depth	Hard Strata to depth	Chiselling hours	Remarks
07/10/2004	1200	6.00	5.00	DRY	End of borehole	5.00	5.50	1.00	
								10 A. A.	

			·								
	CAS	SING						WATER STRI	KES		
Hole diam.	Max depth of hole at dia.	Casing diameter	Max depth of casing of dia.	Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow
150	6.00	150	5.00								and control and
							:				
								:			
		l					L]		1	

GENERAL NOTES	SPT DETAILS							
Service inspection pit hand excavated GL to 1.20m. Cable Percussive boring complete at 6.00m.	Depth	Туре	Incremental blow count/penetration	Casing	Water Depth			
Cable Percussive boring complete at 5,00ff. Somm diameter standpipe installed with base of slotted pipe at 4,00m.	1.20 2.00 3.00 4.00 5.00 5.50	8 8 8 8 C	N=6 (1.0,1,2,2,1) N=5 (1.0,1,1,1,2) N=3 (1,1,0,1,1) N=5 (1,1,1,2,1,1) 50/92mm (14,11/32,38,12/17) 50/65mm (25/73,50/65)	1.20 2.00 3.00 4.00 5.00 5.50	DRY NR NR NR NR			
			* Seating blows only.		·			

NOTES: All depths in metres, all diameters in millimetres, water strike rise time in minutes, chiselling time in hours.

Form	ARIAL OP HEADER
Version	3.03
Revised	19/01/2005

Norwest Holst Soil Engineering Ltd. **BOREHOLE LOG - CABLE PERCUSSION**

Hole ID. **BH01**

Sheet 1 of 1

Contract No.

F13512

Method

Cable Percussion

Depth

Below

G.L

0.80

Datum

Level

Coordinates

Project

Gateacre School, Liverpool

Drilling Rig

Dando 150

Ground Level

Vertical

SPT N &

(U blows)

S6

S5

S3

s

Client

Liverpool City Council

Driller

SL

Orientation

Consultant

subangular of brick.

WSP

Logged by

JB

Date Started Date Completed

Sampling

0.00 - 0.50

0.50 - 1.20

1.20 - 1.65

3,00 - 3,45

3.00 - 3.45

5.00 - 5.45 5.00 - 5.45

D17 5.50 - 5.95

07/10/2004 07/10/2004

SPT type

& depth

ation

Description of Strata
MADE GROUND: Dark brown slightly clayey gravelly fine to coarse sand with occasional cobbles and some rootlets. Gravel sized fragments are angular to subangular fine to coarse of brick and sandstone. Cobble sized fragments are

MADE GROUND: Black gravelly ash with occasional cobbles. Gravel sized fragments are angular to subrounded fine to coarse of brick, glass, wood, sandstone, slate and concrete. Cobble sized fragments are subangular to subrounded of brick and sandstone.

Reddish brown medium to coarse grained SANDSTONE. Completely weathered. Recovered as

medium to coarse sand and subrounded to

Cable Percussion boring complete at 6.00 m.

subangular fine to coarse gravel.

XX -	r			
XX	F	D5	1.80	
\bowtie	-	D6	2.00 - 2.45	
\otimes		B7	2.00 - 2.45	
XX	· -			
\bowtie	F		1	

4.00 - 4.45 4.00 - 4.45 4.60

D11 3.80

D14 4.80

6.00

-			4
F			
ř			
-			
L			
L			
-			
S50/92mm	S	5.00	_
			5
Γ			

-C50/65mm

NOTES: All depths in metres, all diameters in millimetres. See header sheet for details of boring, progress and water strikes. See legend sheet for key to symbols.

NORWEST

Norwest Holst Soil Engineering Ltd. BOREHOLE LOG - CABLE & ROTARY

Hole ID. BH02 Header

Contract No. F13512

Method

Cable Percussion &

Coordinates

Project

Gateacre School, Liverpool

Rotary

Client

Liverpool City Council

Drilling Rig Drillers

SL/JM

Orientation

Vertical

Logged by

JB/HW

Dando 150/Deltabase R50Ground Level

Date Started

07/10/2004

Consultant

WSP

PWF Core barrel

Core bit

PCD

Date Completed 19/10/2004

			PROGRESS				CABLE PERCUSSION DETAILS				
Date	Time	Hole depth	Casing depth	Water depth	Remarks	Hard Strata from depth	Hard Strata to depth	Chiselling Hours	Remarks		
07/10/2004 19/10/2004 19/10/2004	1400 0700 1830	5.20 5.20 10.75	4.70 4.70 5.20	DRY DRY DRY	End of CP Start of Rotary End of Hole	4.30	4.70	1.00			
						to the control of the					

)	CAS	SING					1	WATER STR	IKES		
Hole diam.	Max depth of hole at dia.	Casing diameter	Max depth of casing of dia.	Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow
150 140 120	5.20 5.20 5.20 10.75	150 140	4.70 5.20			gepth	depth	to rise		at strike time	to seal flow

	RO	TARY DRILLING	DETAILS				SPT DETAILS		
From depth	To depth	Flush type	Flush return	Core diameter	Depth	Туре	Incremental blow count/penetration in mm	Casing	Water Depth
5,20	10.75	Air/Water	100%	92	1.20 2.00 3.00 4.00 4.70	5555	N=3 (1,1,0,1,1,1) N=5 (1,0,1,1,1,2) N=5 (1,1,2,1,1,1) N=34 (3,3,6,7,8,13) 50/75mm (16,9/26,50/75)	1.20 2.00 3.00 4.00 4.00	NR NR NR NR
2. Cable 3. Rotar	Percussive I y follow on to	GENERAL NOT bit hand excavated poring from 1.20m 10.75m. with 50mm stand	1 GL to 1.20m. to 5.20m.						

* Seating blows only.

NOTES: All depths in metres, all diameters in millimetres, water strike rise time in minutes, hard strata time in hours ARIAL COMBINED HEADER 19/01/2005

NORWEST

Norwest Holst Soil Engineering Ltd. **BOREHOLE LOG - CABLE & ROTARY**

Hole ID. **BH02**

Sheet 1 of 2

Contract No.

F13512

Cable Percussion & Rotary

Coordinates

Project

Gateacre School, Liverpool

Drilling Rig

Method

Dando 150/Deltabase R50 Ground Level

Orientation

Vertical

Client

Liverpool City Council

Drillers

SL/JM

Consultant

WSP

Logged by

Date Started

07/10/2004

JB/HW PWF Core Barrel

Date Completed

19/10/2004

Core Bit

PCD

		7								_				
			Depth	Datum	İ	Samp	lina		Blow	Count	t	SPT	type, N	inetall.
- 1	Description of Strata	Legend	Below			•	~			I		1		
	·	-	G.L.	Level		& cor	_	TCR	SCR	RQD	IF	ě.	depth	ation
ı	MADE GROUND: Black slightly gravelly clayey	XXXXX		-	B1	0.00-0.	50			i	_			:: v.º
-	fine to coarse sand with occasional cobbles			-		-						l	-	0.00
1	and some rootlets. Gravel sized fragments are											1	-	
1	subangular to subrounded fine to coarse of			-	B2	0.50-1.	20					l	-	800 000
Ì	sandstone, glass, brick and slate. Cobble											1	-	1888 1888
-	sized fragments are subangular to subrounded			-		[l	-	∤ ₩ ₩
	of brick and sandstone.	$\times\!\!\times\!\!\times$										l	_	
	or briok and surfactorie,			-								l		OH.º
ı	MADE GROUND: Black slightly clayey gravelly		1.20	-	D3 B4	1.20-1.						53 1.20	1.65 -	oHo!
	ash with some rootlets. Gravel sized fragments			-		1.20	•••					1.20	-	
	are angular to subangular fine to medium of			-								l		
	slate, glass, tile, porcelain and wood.			-								l	-	9H0
	from 1.80m with occasional subangular			_	D5	1.80						i	-	o∏°
И	cobble sized fragments of brick, slate,	 }	1	_	D6	2.00-2.						85		10H0
	concrete and coal				87	2.00-2.	45					2.00	2.45 -	
				-								ł	-	1,H%
			1	_								I	-	lĭ¤°
-		XXXX		-								I		¦ॅ़H%
			1	-	D8	2.80							-	
		\otimes			D9	3.00-3.4	45					or.	-	1 6-6°
				_	B10	3.00-3.						S5 3.00	3.45 -	
			[_		' "							-	
		XXXX		_				İ				I	-	
	•	XXXX	1	-		•						I	-	1775
- 1		$\times\!\!\times\!\!\times\!\!\times$		~								I	_	
				-	D11	3.80						I	-	
+		XXXXX	4.00		D12	4.00-4.	45					S34	_]°∏°;
	Reddish brown medium to coarse grained	::::::			B13	4.00-4.	45					4.00	4.45 -	
	SANDSTONE. Completely weathered. Recovered as			- !								÷	-	
1	medium to coarse sand and subrounded fine to											1	-	ര്റ്റ
	medium gravel.			_								1		000
		:::::::		_	D14	4.70-5.	15					S50/7 4.70	5mm - 4.88 -	0000
				- 1								4.70	4.50 -	
-				-								1	-	1 - 0 - 6
ŀ			5.20	-		-						ı	-	
	Very weak to weak reddish brown medium to	::::::				ĺ						ı		
١	coarse grained SANDSTONE. Highly weathered.	1::::::	5.45	-								ı	-	
	Recovered non intact as very sandy angular to	::::::											-	
M	subangular fine to coarse gravel.	:::::::		-	CS1	5.20	6.30	100	73	0	1		-	10.0
Л	\at 5.40m light brown grey										NI 30		-	
	Weak reddish brown medium to coarse grained			-							30 60		-	
-	SANDSTONE. Moderately weathered.	;;;;;;;		_										0,00
1	Discontinuities: 1) very closely to closely		6.43	-									-	0,00
- [spaced subhorizontal planar rough. 2) medium	::::::		-										(0 0
	spaced 45 deg planar rough.			_									-	0,00
1	\—from 6.30m to 6.43m recovered non intact			-									_	V - V -
ı				-	CS2	6.30	7.80	100	80	26			_	~~~
	Moderately weak reddish brown medium to coarse	::::::		-									-	0,000
	grained SANDSTONE. Moderately weathered.			_									-	0,00
ļ	Discontinuities: 1) closely spaced			-									_	
	subhorizontal planar rough. 2) rare spaced 45	::::::		_									-	1.0 %
	deg planar rough.			-									-	(V TA
	from 7.00m discontinuities closely spaced	[: : : : : : : : : : : : : : : : : : :		_									-	
	—from 7.30m to 7.37m recovered non intact			-									-	0000
	from 7.50m no set 2 discontinuities			_									_	1 0 9/1
	from 8.00m to 8.50m with closely spaced			- }									_	000
	subangular to subrounded fine to coarse gravel				CS3	7.80	9.25	100	88	72			-	
	of quartz and sandstone	: : : : : : : : : : : : : : : : : : :		-							NI		_	
	from 8.50m to 8.60m recovered non intact	::::::		-							110 190		-	
	•			_		ļ							_	1 . 4 61
				_									-	
	from 9.25m to 10.75m rare randomly spaced			-					-					0 0
	gravel	::::::		-		}							_	1 0 0
	9. 4. 4.			-		-			[_	
				-									-	0,000
		::::::		-									_	0,00
-	· · · · · · · · · · · · · · · · · · ·													- 0

NOTES: All depths in metres, all diameters in millimetres. See header sheet for details of boring, progress and water strikes. See legend sheet for key to symbols.

Form	ARIAL COMBINED LOG
Version	3.09
Revised	19/04/2006

Norwest Holst Soil Engineering Ltd. **BOREHOLE LOG - CABLE & ROTARY**

Hole ID. **BH02** Sheet 2 of 2

ation

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Contract No.

F13512

Gateacre School, Liverpool

Cable Percussion & Method Rotary

Coordinates

Client

Project

Liverpool City Council

Drilling Rig

SL/JM

Orientation

Vertical

Consultant

Drillers

JB/HW

Date Started

Dando 150/Deltabase R50 Ground Level

07/10/2004

WSP

Logged by Core Barrel

PWF

Date Completed

19/10/2004

PCD Core Bit Depth Datum SPT type, N install-Sampling Description of Strata Legend Below Level & coring TOR SOR ROD IF & depth G.L. 9.25 10.75 88 Moderately weak reddish brown medium to coarse grained SANDSTONE. Moderately weathered. Discontinuities: 1) closely spaced subhorizontal planar rough. 2) rare spaced 45 deg planar rough. 10.75 Borehole complete at 10.75 m.

ARIAL COMBINED LOG Form See header sheet for details of boring, progress and water strikes. See legend sheet for key to symbols.

NOTES: All depths in metres, all diameters in millimetres.

NORWEST

Norwest Holst Soil Engineering Ltd. **BOREHOLE LOG - ROTARY**

Hole ID. **BH03**

Contract No.

F13512

Method

Rotary Coring

Coordinates

Header

Project

Gateacre School, Liverpool

Drilling Rig Deltabase R50 Driller

Client

Liverpool City Council

Ground Level Orientation

Vertical

Logged by Core barrel HW PWF

Date Started

18/10/2004

Consultant

WSP

Core bit

PCD

Date Completed

19/10/2004

			PROGRESS		DRILLING DETAILS									
Date	Time	Hole depth	Casing depth	Water depth	Remarks	From depth	To depth	Flush type	Flush return	Core diameter				
18/10/2004	1830	5.00	2.10	DRY	End of Shift	0.60	11.00	Air/Water	100%	92.0				
19/10/2004 19/10/2004	0700 1830	5.00 11.00	2.10 2.10	DRY DRY	Start of Shift End of Hole									

				f											
1	CAS	ING		WATER STRIKES											
Hole Max depth of diam. Max depth of diam. Hole at dia.		Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow						
140 120	2.10 11,00	140	2.10												
-															

Туре

Depth

GENERAL	NOTES
GENERAL	MOLE 2

- 1. Service pit hand excavated from GL to 0.60m.
- 2. Rotary Coring from 0.60m to 11.00m.
- 3. Borehole complete with 50mm diameter standpipe installed at 10.80m.

SPT	DETAILS
01.1	

Water Incremental blow count/penetration Casing Depth

NOTES:	All depths in metres,	all diameters in millimetres,
	water etrike rice time	

NORWEST **†** HOLST

Norwest Holst Soil Engineering Ltd. BOREHOLE LOG - ROTARY

Hole ID. BH03

Sheet 1 of 2

Contract No.

F13512

WSP

Project

Gateacre School, Liverpool

Method Drilling Rig

Driller

Core bit

Rotary Coring

Deltabase R50

JM

Ground Level

Orientation

Coordinates

Vertical

Client Consultant Liverpool City Council

Logged by Core barrel HW PWF PCD

Date Started
Date Completed

18/10/2004 19/10/2004

Description of Strata	Legend		Datum Level		oring a amplii		TCR	SCR	ROD	냄	SPT N & depth	Instal
MADE GROUND: Ash, brick fill. (Driller's description)		0.50	-									
SANDSTONE. Weathered. (Driller's description)	1:::::::	0.50							ļ			
Weak reddish brown medium to coarse grained SANDSTONE. Highly weathered. Discontinuities: very closely spaced subhorizontal planar rough. —from 0.78m to 0.98m recovered non intact as sandy angular to subangular fine to coarse gravel		1.00	- - - - -	CS1	0.60	2.10	100	45	c		-	
Weak reddish brown medium to coarse grained SANDSTONE. Moderately weathered. Discontinuities: closely spaced subhorizontal planar rough. —from 1.03m to 1.29m, 1.35m to 1.41m, 2.10m to 2.28m, 4.20m to 4.27m, 5.15m to 5.20m, 5.60m to 5.68m, and 10.07m to 10.14m recovered non intact			- - - - - -							Ni 35 65		
as sandy fine medium and coarse gravel —at 2.10m slight clay infill on fracture			- - - - -	CS2	2.10	3.50	100	68	a		-	
from 3.25m to 3.30m recovered non intact as slightly clayey slightly sandy gravelat 3.35m occasional coarse subrounded gravel of quartz		3.50	- - - -								_	
Weak reddish brown medium to coarse grained SANDSTONE. Moderately to slightly weathered. Discontinuities: close to medium spaced subhorizontal bedding fractures planar rough. —from 4.45m to 6.20m with very closely spaced fine, medium and coarse gravel of quartz and sandstone				CS3	3,50	5.00	100	84	43	NI 90 190	-	
from 5.60m discontinuities closely to medium spaced				CS4	5.00	6.50	100	87	44		-	
from 6.20m to 7.25m with randomly spaced fine, medium and coarse gravel of sandstone and quartz from 7.00m slightly weathered			-								-	
from 7.30m to 7.50m discontinuity: 50-60 deg planar rough			-	CS5	6.50	8.00	100	88	61			
from 8.00m to 8.20m with closely spaced medium and coarse gravel of quartz			- - -	CS6	8.00	9.50	100	90	79	NI 200 530	-	
from 8.90m to 10.07m discontinuities medium spaced			- - - -					33	, ,		-	

NOTES: All depths in metres, all diameters in millimetres. See header sheet for details of drilling, progress and water strikes. See legend sheet for key to symbols.

Form	ARIAL ROTARY LOG
Version	3.08
Revised	21/07/2005

NORWESTO

Norwest Holst Soil Engineering Ltd. **BOREHOLE LOG - ROTARY**

Hole ID. **BH03** Sheet 2 of 2

Contract No.

F13512

Method

Rotary Coring Deltabase R50 Coordinates

Project

Gateacre School, Liverpool

Drilling Rig Driller

Ground Level

Client

Liverpool City Council

Logged by

Orientation

Vertical 18/10/2004

Consultant

WSP

Core barrel Core bit

HW**PWF** PCD

Date Started Date Completed

19/10/2004

Description of Strata	Legend	Drilled Length	Datum Level	1	oring amp	and ling	TCR R	SCR	Rab	H.	SPT N & depth	Install- ation
Weak reddish brown medium to coarse grained SANDSTONE. Moderately to slightly weathered. Discontinuities: close to medium spaced subhorizontal bedding fractures planar rough. —-from 10.07m to 10.27m discontinuities very closely spaced —-from 10.20m to 10.27m medium grained brown		11.00	- - - - -	CS7	9.50	11.00	100	92	73		-	
grey sandstonefrom 10.40m to 11.00m coarse grained sandstone with randomly spaced fine to coarse gravelat 10.70m rounded coarse gravel of sandstone Rotary drilling complete at 11.00 m.			- - - - - - - - - - - - - - - - - - -								-	
											-	
			<u>, , , , , , , , , , , , , , , , , , , </u>				The state of the s				-	
			- - - - - - - -							- Walderson Co.	-	
											-	
			- - - - - - - -								-	
											-	
											-	
			- - -									-

NOTES: All depths in metres, all diameters in millimetres. See header sheet for details of drilling, progress and water strikes. See legend sheet for key to symbols.

Form ARIAL ROTARY LOG Version 3.08 Revised 21/07/2005

Norwest Holst Soil Engineering Ltd. **BOREHOLE LOG - CABLE PERCUSSION**

Hole ID. **BH04**

Contract No.

F13512

Method

Logged by

Cable Percussion

Coordinates

Header

Project

Gateacre School, Liverpool

Pilcon

Ground Level

Client

Liverpool City Council

Drilling Rig ΑĻ

Orientation

Vertical

Consultant

WSP

HW

Date Started

18/10/2004

Date Completed

18/10/2004

			PROGRESS	BORING DETAILS									
Date	Time	Hole depth	Casing depth	Water depth	Remarks	Hard Strata Hard Strata from depth to depth	Chiselling hours	Remarks					
8/10/2004	1730	3.90	3.20	DRY	End of Hole								

	CAS	SING		WATER STRIKES											
Hole diam.	Max depth of hole at dia.	Casing diameter	Max depth of casing of dia.	Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow				
150	3.90	150	3.20												
		ALAN TO THE TAXABLE PARTY.													
			,												
		1						}							

Depth Type

GENERAL	NOTES

- 1. Service pit hand excavated from GL to 1.20m.
- Cable Percussive boring complete at 3.90m.
 Borehole backfilled on completion.

* Seating blows only.

SPT DETAILS

Incremental blow count/penetration

NOTES: All depths in metres, all diameters in millimetres, water strike rise time in minutes, chiselling time in hours.

Form	ARIAL CP HEADER
Version	3.03
Revised	19/01/2005

Water Depth

Casing



NORWEST

Norwest Holst Soil Engineering Ltd. BOREHOLE LOG - CABLE PERCUSSION

Hole ID. **BH04** Sheet 1 of 1

Contract No.

F13512

Method

Driller

Logged by

Cable Percussion

Coordinates

Project

Gateacre School, Liverpool

Liverpool City Council

Drilling Rig

Ground Level

Vertical

Client

Pilcon ΑL

Orientation

18/10/2004

Consultant

WSP

HW

Date Started **Date Completed**

18/10/2004

Description of Strata	Legend	Depth Below G.L.	Datum Level	Sampling	SPT N & (U blows)	SPT type & depth	Install- ation
TOPSOIL.		0.40	-		-		
MADE GROUND: Dark brown locally orange black clayey gravelly fine to coarse sand with occasional cobble sized fragments. Gravel sized fragments are angular to subrounded fine to coarse of ash, brick, plastic, glass, scrap		0.40		B1 0.50 - 1.00 B2 1.00 - 2.00		-	
coarse of ash, brick, plastic, glass, scrap metal, wood fragments, bone, elastic, string, sandstone, ceramics and rubber. Cobble sized fragments are subangular of brick, rubber and scrap metal.			- - - - -				
odour MADE GROUND: Dark brown slightly clayey very gravelly fine to coarse sand with occasional cobble sized fragments. Gravel sized fragments		2.00	- - - -	B3 2.00 - 3.00		-	
are angular to subrounded fine to coarse of predominantly ash and few fragments of brick, plastic, glass, scrap metal, wood fragments, bone, sandstone, ceramics and rubber. Cobble sized fragments are subangular of brick.				B4 3.00 - 3.70	-	-	
Reddish brown medium to coarse grained SANDSTONE. Recovered as angular to subangular medium to coarse gravel.		3.70 3.90		D5 3.90		-	
Cable Percussion boring complete at 3.90 m.					<u>-</u>		- - -
						-	
			- - -		• • •		-
			- - -		-	_	
					-		
			- - -		-		
			- - -		-	_	
			- - -				-
			-			-	
				.	-		T-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
			- - -		-	_	- - -
			- - -		-		
					<u> </u>		-

NOTES: All depths in metres, all diameters in millimetres. See header sheet for details of boring, progress and water strikes. See legend sheet for key to symbols.

Form	ARIAL OP LOG
Version	3,08
Revised	29/03/2006



Hole ID. BH1 Header

Contract No.

F13931

Gateacre School

Method

Rotary Openholing

Coordinates

1011.68 E

Project

Drilling Rig Driller

R41 GM GM

Ground Level

1004.97 N 49.18m AOD

Client

Liverpool City Council

Logged by

Orientation

Vertical

Core barrel

Date Started

18/04/2005

Consultant

William Saunders Partnership

Core bit

N/A 5.75

Date Completed

18/04/2005

	PROGRESS						DRI	ILLING DET	AILS	
Date	Time	Hole depth	Casing depth	Water depth	Remarks	From depth	To depth	Flush type	Flush return	Core diameter
18/04/2005	1630	6,30	NR	DRY	End of Hole	1.20	6.30	Air	Full	0.00*
										}

	CAS	SING		WATER STRIKES							
Hole diam.	Max depth of hole at dia.	Casing diameter	Max depth of casing of dia.	Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow
150	6.30										
			C. Carry on the Land								
	•										
		!									

Depth

Туре

GENERAL NOTES

- Inspection pit hand excavated from GL to 1.20m.
 Rotary Openhole from 1.20m to 6.30m.
 Rotary drilling complete at 6.30m
- 4.50mm standpipe installed at 6.00m, slotted from 6.00m to 0.50m.

SPT	DE.	TAI	LS

Incremental blow count/penetration

NOTES: All depths in metres, all diameters in millimetres, water strike rise time in minutes.

Version 3.05	Form	ARIAL ROTARY HEADER
	Version	3.05

Water

Depth

Casing

NORWEST **†** HOLST

Norwest Holst Soil Engineering Ltd. **BOREHOLE LOG - ROTARY**

Hole ID. BH1 Sheet 1 of 1

Contract No.

F13931

Method

Rotary Openholing

Coordinates

1011.68 E

Project

Gateacre School

Drilling Rig Driller

1004.97 N

Client

Liverpool City Council

GM GM Ground Level

49.18m AOD

Logged by Core barrel Orientation Date Started Vertical 18/04/2005

Consultant

William Saunders Partnership

Core bit

N/A 5.75

Date Completed

18/04/2005

Description of Strata	Legend	Length	Datum Level	Coring and Sampling	TCR	SCR	R _O D	SPT N & depth	Ins at
Fopsoil. (Drillers description).			_						
Veak red SANDSTONE. (Drillers description).		0.50	48,68						- 🎆
veak red SANDSTONE. (Dilliers description).			-						
			-					_	
			-						
								_	
Hard red SANDSTONE. (Drillers description).		2.50	46.68						-
(-
			_]
									-
]
			-						
'ellow weak SANDSTONE. (Drillers description)		4.00	45.18 -						
			_]
ard red SANDSTONE. (Drillers description).		4.50	44.68						
			-						
			-						-
			-						
			-						:
			-						
			_					_	
Rotary drilling complete at 6.30 m.		6.30	42.88				1		ገ‱
			-				NAME OF THE PERSON OF THE PERS	-	
			-						_
			-					-	
			-					-	
		Ė	-					-	
			-					-	
			-					-	
			-					-	
			-					- -	
			-					-	
								-	-
									1

NOTES: All depths in metres, all diameters in millimetres. See header sheet for details of drilling, progress and water strikes. See legend sheet for key to symbols.

Form	ARIAL ROTARY LOG
Version	3.08
Revised	21/07/2005

Norwest Holst Soil Engineering Ltd. **BOREHOLE LOG - ROTARY**

Hole ID. BH2 Header

Contract No.

F13931

Method

Rotary Openholing

Coordinates

958.00 E

Project

Gateacre School

Drilling Rig Driller

R41 GM

Ground Level

997.83 N 52.97m AOD

Client

Liverpool City Council

Logged by

Orientation

Vertical

Core barrel

GM N/A **Date Started**

19/04/2005

Consultant

to 0.50m.

William Saunders Partnership

Core bit

5.75

Date Completed

19/04/2005

		1	PROGRESS				DRI	LLING DET	AILS	
Date	Time	Hole depth	Casing depth	Water depth	Remarks	From depth	To depth	Flush type	Flush return	Core diameter
19/04/2005	1130	6,30	NR	DRY	End of Hole	1.20	6.30	Air	Full	0.00*
					<u> </u>					

	CAS	SING		WATER STRIKES							
Hole diam.	Max depth of hole at dia.	Casing diameter	Max depth of casing of dia.	Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow
150	6.30							:			
				100							

1. Inspection pit hand excavated from GL to 1.20m.
2. Rotary Openhole from 1.20m to 6.30m.
Rotary drilling complete at 6.30m
4 Ellipsi standards installed at 6 00m, slotted from 6 00m

GENERAL NOTES

		OI I DE II NIEO		
Depth	Туре	Incremental blow count/penetration	Casing	Water Depth

SPT DETAILS

NOTES: All depths in metres, all diameters in millimetres, water strike rise time in minutes.

Form	ARIAL ROTARY HEADER			
Version	3.05			
Revised	21/07/2005			

Norwest Holst Soil Engineering Ltd. **BOREHOLE LOG - ROTARY**

Hole ID. BH2 Sheet 1 of 1

ARIAL ROTARY LOG

3.08

21/07/2005

Form

Version

Contract No.

F13931

Gateacre School

Method

Rotary Openholing

Coordinates

958.00 E

Project

Drilling Rig

R41 GM GM

Ground Level

997.83 N 52.97m AOD

Client

Liverpool City Council

NOTES: All depths in metres, all diameters in millimetres.

strikes. See legend sheet for key to symbols.

See header sheet for details of drilling, progress and water

Logged by Core barrel Orientation Date Started Vertical 19/04/2005

Consultant

William Saunders Partnership

Core bit

N/A 5.75

Date Completed

19/04/2005

Description of Strata	Legend	Drilled Length	Datum Level	Coring and Sampling	TCR.	SCR	Rab	SPT N & depth	Ins ^s
ak red SANDSTONE. (Drillers description).		_							
									10)
			-						10,
								-	-
			-						40%
									100
									30
			_					_	100
]0
			-						30
			-						40,
		3.00	- - 49.97						- - - - - - - - -
red SANDSTONE. (Drillers description).		0.50	-						40
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ary drilling complete at 6.30 m.		5,50							1
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Hole ID. BH3

Header

Contract No.

F13931

Gateacre School

Method

Rotary Openholing

R41

GM

Coordinates

967.99 E

Project

Drilling Rig Driller

Ground Level

940.39 N 51.63m AOD

Client

Liverpool City Council

Logged by

Orientation

Vertical

GM N/A

Date Started

19/04/2005

Consultant

William Saunders Partnership

Core barrel Core bit

Date Completed 5.75

19/04/2005

		1	PROGRESS PROGRESS				DRI	LLING DET	AILS	
Date	Time	Hole depth	Casing depth	Water depth	Remarks	From depth	To depth	Flush type	Flush return	Core diamete
19/04/2005	1645	6.30	NR	DRY	End of Hole	1.20	6.30	Air	Full	0.00*

	· · · · · · · · · · · · · · · · · · ·										
/	CAS	ING						WATER STR	IKES		
Hole diam.	Max depth of hole at dia.	Casing diameter	Max depth of casing of dia.	Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow
150	6.30										
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GENERAL	NOTES
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- 1. Inspection pit hand excavated from GL to 1.20m.
- 2. Rotary Openhole from 1.20m to 6.30m.
 3. Rotary drilling complete at 6.30m.
 4.50mm alanding institution.
- 4.50mm standpipe installed at 6.00m, slotted from 6.00m to 0.50m.

		SPT DETAILS
Depth	Туре	Incremental blow count/penetration

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NOTES: All depths in metres, all diameters in millimetres, water strike rise time in minutes.

Form	ARIAL ROTARY HEADER
Version	3.05
Revised	21/07/2005

Water

Depth

Hole ID. BH3 Sheet 1 of 1

Contract No.

F13931

Gateacre School

Method

Rotary Openholing

Coordinates

967.99 E

Project

Drilling Rig Driller

R41 GM GM

Ground Level

940.39 N 51.63m AOD

Logged by

Orientation

Vertical

Client	Liverpool City Council William Saunders Partnership	Core bit	N/A 5.75			Date Starte	ed	d		M/2005 M/2005	
	Description of Strata		Legend	Drilled Length	Datum Level	Coring and Sampling	TCR	SCR	Rab	SPT N & depth	Install- ation
Tarmac. (Dr	illers description).			0,15	51.48						
Hard red SA	NDSTONE. (Drillers description)									-	

6.30 45.33 Rotary drilling complete at 6.30 m.

NOTES: All depths in metres, all diameters in millimetres. See header sheet for details of drilling, progress and water strikes. See legend sheet for key to symbols.

Form	ARIAL ROTARY LOG
Version	3.08
Revised	21/07/2005

Hole ID. BH4 Header

Contract No.

F13931

Gateacre School

Method

Rotary Openholing

Coordinates

996.81 E

Project

Drilling Rig

895.74 N

Client

Ground Level

51.64m AOD

Liverpool City Council

Logged by

Orientation

Vertical

Consultant

Core barrel

Date Started

20/04/2005

William Saunders Partnership

Core bit

N/A 5.75

R41

GM

GM

Date Completed

20/04/2005

			PROGRESS				DRI	ILLING DET	AILS	
Date	Time	Hole depth	Casing depth	Water depth	Remarks	From depth	⊤o depth	Flush type	Flush return	Core diameter
20/04/2005	1300	6.30	NR	DRY	End of Hole	1.20	6.30	Air	Full	0.00*
}										
Ì										

	CAS	ing						WATER STR	IKES		
Hole diam.	Max depth of hole at dia.	Casing diameter	Max depth of casing of dia.	Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow
150	6.30										
			j								

Туре

GENERAL NOTES

- 1. Inspection pit hand excavated from GL to 1.20m.
- 2. Rotary Openhole from 1.20m to 6.30m.
- 3. Rotary drilling complete at 6.30m
- 4.50mm standpipe installed at 6.00m, slotted from 6.00m to 0.50m.

SPTD	ETAILS
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Incremental blow count/penetration

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NOTES: All depths in metres, all diameters in millimetres, water strike rise time in minutes.

Form	ARIAL ROTARY HEADER
Version	3.05
Revised	21/07/2005

Water

Depth

Norwest Holst Soil Engineering Ltd. **BOREHOLE LOG - ROTARY**

Hole ID. BH4 Sheet 1 of 1

Contract No.

F13931

Method

Rotary Openholing

Coordinates

996.81 E

Project

Gateacre School

Drilling Rig Driller

Ground Level

895.74 N 51.64m AOD

Client

Liverpool City Council

Logged by

Orientation

Vertical 20/04/2005

Core barrel

GM N/A

R41

GM

Date Started

Core onsultant William Saunders Partnership Core	e barrel N/A e bit 5.75		Date Started Date Completed			20/04/2005 20/04/2005			
Description of Strata	Legend	Drilled Length	Datum Level	Coring and Sampling	TCR	SCR	Rab	SPT N & depth	Inst
Tarmac. (Drillers description).	XXX	0.15	51.49						
ed hard SANDSTONE									
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otary drilling complete at 6.30 m.		6.30	45.34						- 0
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NOTES: All depths in metres, all diameters in millimetres. See header sheet for details of drilling, progress and water strikes. See legend sheet for key to symbols.

_		
	Form	ARIAL ROTARY LOG
	Version	3.08
	Revised	21/07/2005

Hole ID. BH₅ Header

Contract No.

F13931

Method

Rotary Openholing

Coordinates

1037.35 E

Project

Gateacre School

Drilling Rig Driller

R41 GM

5.75

Ground Level

834.80 N 50.89m AOD

Client

Liverpool City Council

Logged by

Orientation

Vertical

GM Core barrel N/A

Date Started

20/04/2005

Consultant

William Saunders Partnership

Core bit

Date Completed

20/04/2005

		1	PROGRESS		DRILLING DETAILS					
Date	Time	Hole depth	Casing depth	Water depth	Remarks	From depth				Core diameter
20/04/2005	1700	6.30	NR	DRY	End of Hole	1.20	6.30	Air	Full	0.00*
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4		CAS	SING		WATER STRIKES								
	Hole diam.	Max depth of hole at dia.	Casing diameter	Max depth of casing of dia.	Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow	
	150	6.30							100				
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GENERAL NOTES

- 1. Inspection pit hand excavated from GL to 1.20m.
- 2. Rotary Openhole from 1.20m to 6.30m.
- 3. Rotary drilling complete at 6.30m
- 4.50mm standpipe installed at 6.00m, slotted from 6.00m to 0.50m.

		SPT DETAILS
Depth	Туре	Incremental blow count/penetration

NOTES: All depths in metres, all diameters in millimetres, water strike rise time in minutes.

Form	ARIAL ROTARY HEADER
Version	3,05
Revised	21/07/2005

Water

Norwest Holst Soil Engineering Ltd. **BOREHOLE LOG - ROTARY**

Hole ID. BH5 Sheet 1 of 1

Contract No.

F13931

Gateacre School

Method

Rotary Openholing

Coordinates

1037.35 E

Project

Drilling Rig Driller

834.80 N

Client

Ground Level

50.89m AOD

Liverpool City Council

Logged by Core barrel Orientation Date Started

Vertical 20/04/2005

Consultant

William Saunders Partnership

Core bit

N/A 5.75

R41

GM

GM

Date Completed

20/04/2005

Description of Strata	Legend	Drilled Length	Datum Level	Coring and Sampling	TCR.	SCR	Rab B	SPT N & depth	inst
avement slab. (Drillers description).	XXXX	0.10	- 50.79			-			
eak red SANDSTONE. (Drillers description).									***
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ard red SANDSTONE. (Drillers description).		5.00	45.89					-	-Jöf
and red or (New Columns description).			- 1						40}
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otary drilling complete at 6.30 m.		6.30	- 44,59][0
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NOTES: All depths in metres, all diameters in millimetres. See header sheet for details of drilling, progress and water strikes. See legend sheet for key to symbols.

Form	ARIAL ROTARY LOG
Version	3.08
Revised	21/07/2005

Hole ID. BH6 Header

Contract No.

F13931

Gateacre School

Method

Rotary Openholing

Coordinates

1090.54 E

757.08 N

Project

Drilling Rig Driller

R41 GM GM

Ground Level

51.05m AOD

Client

Liverpool City Council

Logged by Core barrel Orientation Date Started Vertical 20/04/2005

Consultant

William Saunders Partnership

Core bit

N/A 5.75

Date Completed

21/04/2005

			PROGRESS			DRILLING DETAILS					
Date	Time	Hole depth	Casing depth	Water depth	Remarks	From depth	To depth	Flush type	Flush return	Core diamete	
20/04/2005	1800	3.00	NR	DRY	End of Shift	1.20	6.30	Air	Full	0.00*	
21/04/2005	0730	3,00	NR	DRY	Start of Shift						
21/04/2005	0920	6.30	NR	DRY	End of Hole						
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		ING	:					WATER STR					
Hole diam.	Max depth of hole at dia.	Casing diameter	Max depth of casing of dia.	Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow		
150	6.30												
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GENERAL NOTES			SPT DETAILS		
1. Inspection pit hand excavated from GL to 1.20m.	Depth	Туре	incremental blow count/penetration	Casing	Water Depth
 Inspection pit hand excavated from GL to 1.20m. Rotary Openhole from 1.20m to 6.30m. Rotary drilling complete at 6.30m 50mm standpipe installed at 6.00m, slotted from 6.00m to 0.50m. 					

NOTES: All depths in metres, all diameters in millimetres, water strike rise time in minutes.

Form	ARIAL ROTARY HEADER
Version	3.05
Revised	21/07/2005

Norwest Holst Soil Engineering Ltd. **BOREHOLE LOG - ROTARY**

Hole ID. BH6 Sheet 1 of 1

Contract No.

F13931

Gateacre School

Method

Rotary Openholing

Coordinates

1090.54 E

Project

Drilling Rig

Ground Level

757.08 N

Client

Liverpool City Council

Driller

51.05m AOD Vertical

Logged by Core barrel

Orientation **Date Started**

20/04/2005

Consultant

William Saunders Partnership

Core bit

N/A 5.75

R41

GM

GM

Date Completed

21/04/2005

Description of Strata	Legend	Drilled Length	Datum Level	Coring and Sampling	TCR.	SCR	Rab	SPT N & depth	Insta
opsoil. (Drillers description).		0.70	50.35						
andy soft clay. (Drillers description).			-					-	
Veak red SANDSTONE. (Drillers description).		1.20	49.85						
Hard red SANDSTONE. (Drillers description).		4.00	47.05			and the second s			
Rotary drilling complete at 6.30 m.		6.30	44.75						
									<u> </u>

NOTES: All depths in metres, all diameters in millimetres. See header sheet for details of drilling, progress and water strikes. See legend sheet for key to symbols.

Form	ARIAL ROTARY LOG
Version	3.08
Revised	21/07/2005

Norwest Holst Soil Engineering Ltd. **BOREHOLE LOG - ROTARY**

Hole ID. BH7 Header

Contract No.

F13931

Gateacre School

Method

Rotary Openholing

Coordinates

1149.40 E

Project

Drilling Rig Driller

R41 GM

Ground Level

725.04 N 50.54m AOD

Client

Liverpool City Council

Logged by

Orientation

Vertical

GM Core barrel N/A

Date Started

21/04/2005

Consultant

William Saunders Partnership

Core bit

5.75

Date Completed

21/04/2005

		í	PROGRESS			DRILLING DETAILS							
Date	Time	Hole depth	Casing depth	Water depth	Remarks	From depth	To depth	Flush type	Flush return	Core diamete			
21/04/2005	1800	6.30	NR	DRY	End of Hole	1.20	6.30	Air	Full	0.00*			
							ŀ						

	CAS	SING		WATER STRIKES									
Hole diam.	Max depth of hole at dia.	Casing diameter	Max depth of casing of dia.	Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow		
150	6.30												

GENERAL NOTES		,	SPT DETAILS		
	Depth	Туре	Incremental blow count/penetration	Casing	Water Depth
 1. Inspection pit hand excavated from GL to 1.20m. 2. Rotary Openhole from 1.20m to 6.30m. 3. Rotary drilling complete at 6.30m 4. 50mm standpipe installed at 6.00m, slotted from 6.00m to 0.50m. 					

NOTES: All depths in metres, all diameters in millimetres, water strike rise time in minutes.

ARIAL ROTARY HEADER Version 3.05 21/07/2005

NORWEST **?** HOLST

Norwest Holst Soil Engineering Ltd. **BOREHOLE LOG - ROTARY**

Hole ID. BH7 Sheet 1 of 1

Contract No.

F13931

Gateacre School

Method

Rotary Openholing

Coordinates

1149.40 E 725.04 N

Project

Drilling Rig

R41 GM

Ground Level

50.54m AOD

Client

Liverpool City Council

Driller Logged by GM

Orientation

Vertical

William Saunders Partnership

Core barrel Core bit

N/A 5.75

Date Started Date Completed 21/04/2005 21/04/2005

onsultant	William Saunders Partnership	Core bit	5.75			Date Comp	olete	đ	21/04/2	1005	
100	Description of Strata		Legend		Datum Level	Coring and Sampling	TCR	SCR	Rab	SPT N & depth	Instal
	ers description).			0.50	- 50.04						
Weak red SA	NDSTONE. (Drillers description).										
Hard red SAN	NDSTONE. (Drillers description).			2.00	48.54						
Rotary drilling	g complete at 6.30 m.			6.30	- 44.24						
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NOTES: All depths in metres, all diameters in millimetres. See header sheet for details of drilling, progress and water strikes. See legend sheet for key to symbols.

ARIAL ROTARY LOG Form 3.08 Version 21/07/2005 Revised

Hole ID. BH8 Header

Contract No.

F13931

Gateacre School

Method

Rotary Openholing

Coordinates

1074.96 E

Project

Drilling Rig Driller

Ground Level

923.99 N

Client

Liverpool City Council

GM Orientation GM

48.09m AOD Vertical

Logged by Core barrel

Date Started

21/04/2005

Consultant

William Saunders Partnership

Core bit

N/A 5.75

R41

Date Completed

21/04/2005

		F	PROGRESS			DRILLING DETAILS						
Date	Time	Hole depth	Casing depth	Water depth	Remarks	From depth	To depth	Flush type	Flush return	Core diamete		
21/04/2005	1730	6.30	NR	DRY	End of Hole	1.20	6.30	Air	End of Hole	0.00*		

			j									

	CAS	SING		WATER STRIKES									
Hole diam.	Max depth of hole at dia.		Max depth of casing of dia.	Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow		
150	6.30												
		:											
	1												

Depth

Туре

GENERAL I	Ν	O.	TES
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- 1. Inspection pit hand excavated from GL to 1.20m.
- 2. Rotary Openhole from 1.20m to 6.30m.
- 3. Rotary drilling complete at 6.30m
- 4.50mm standpipe installed at 6.00m, slotted from 6.00m to 0.50m.

SPT	DE.	TAIL	.S

Incremental blow count/penetration

NOTES: All depths in metres, all diameters in millimetres, water strike rise time in minutes.

Form	ARIAL ROTARY HEADER
Version	3.05
Revised	21/07/2005

Water

Depth

Casing

Norwest Holst Soil Engineering Ltd. **BOREHOLE LOG - ROTARY**

Hole ID. BH8 Sheet 1 of 1

Contract No.

F13931

Method

Rotary Openholing

Coordinates

1074.96 E

Project

Gateacre School

Drilling Rig

Ground Level

923.99 N

Client

Liverpool City Council

Driller GM GM

48.09m AOD Vertical

Logged by Core barrel Orientation Date Started

21/04/2005

Consultant

William Saunders Partnership

Core bit

N/A 5.75

R41

Date Completed

21/04/2005

Description of Strata Tarmac. (Drillers description).	Legend	Drilled Length	Datum Level	Coring and Sampling	TCR	SCR	Rab	SPT N & depth	Install ation
Hardcore. (Drillers description).			_						
Weak red SANDSTONE boulders, soft sandy clay.	XXXX	0.50	47.59						
Drillers description).									dĭtt•
		100	-					-	
Weak red SANDSTONE. (Driller's description)		1,20	46.89						1,4-6
Hard red SANDSTONE. (Drillers description).		2.00	46.09					-	
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Rotary drilling complete at 6.30 m.		6,30	41,79						1.01
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NOTES: All depths in metres, all diameters in millimetres. See header sheet for details of drilling, progress and water strikes. See legend sheet for key to symbols.

ARIAL ROTARY LOG 21/07/2005



PΒ

PB

Hole ID. **BH09**

Sheet 1 of 1

contract No.

F14826

Gateacre School, Liverpool

Method

Logged by

Window Sampling

Coordinates

Project Client

Liverpool City Council

Sampling Rig Driller

Terrier Ground Level

Orientation

Vertical

Consultant

Wm Saunders Partnership

Date Started

23/04/2007

Date Completed

23/04/2007

Description of Strata	Legend	Depth Below G.L.	Datum Level			Progress	Insta atior
OPSOIL. (Driller's description)		0.50	_				
MADE GROUND: Black ash and brick fill. Driller's description)		5.55		ES1 ES2	1.00 - 1.20 1.00 - 1.20		
SANDSTONE. (Driller's description)		4.90 5.00					
Sampling complete at 5.00 m.							

			VVAILETY.	SIRINES				GENERAL NOTES
Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow	Inspection pit hand excavated from GL to 1.20m.
								50mm standpipe installed to 5.00m, slotted from GL to 5.00m,
						-		

NOTES: All depths in metres, all diameters in millimetres, Water strike rise time in minutes. See legend sheet for key to symbols.

WATER STRIKES

Form	ARIAL WINDOW LOG
Version	3,06
Revised	07/04/2005



Hole ID. **BH10**

Sheet 1 of 1

ontract No.

F14826

Driller

Logged by

Method Window Sampling Coordinates

Project

Gateacre School, Liverpool

Sampling Rig Terrier Ground Level

Client

Liverpool City Council

PB ΡВ

Orientation

Vertical

Consultant

Wm Saunders Partnership

Date Started

23/04/2007

Date Completed

23/04/2007

Description of Strata	Legend	Depth Below	Datum Level		ample type and depth	Progress	Install- ation
TOPSOIL. (Driller's description)			- - -				
MADE GROUND: Black ash brick fill. (Driller's description)		4.30		ES1 ES2	1.00 - 1.20 1.00 - 1.20		
SANDSTONE. (Driller's description) Sampling complete at 4.50 m.		4.50					

Casing depth at strike time

Casing depth to seal flow

NOTES: All depths in metres, all diameters in millimetres,
Water strike rise time in minutes. See legend sheet
for key to symbols.

Strike at

Date

Time

WATER STRIKES

Time taken

Flow

Rise to

	Form	ARIAL WINDOW LOG
Γ.	Version	3.06
	Revised	07/04/2005

GENERAL NOTES

Inspection pit hand excavated from GL to 1.20m.
 50mm standpipe installed to 4.30m, slotted from 1.00m to 4.30m.



Hole ID. **BH11**

Sheet 1 of 1

Contract No.

F14826

Gateacre School, Liverpool

Method

Window Sampling

PB

PB

Coordinates

Project

Sampling Rig

Terrier Ground Level

Vertical

Client

Liverpool City Council

Driller Logged by Orientation

Date Started

23/04/2007

Consultant

Wm Saunders Partnership

Date Completed

23/04/2007

Description of Strata	Legend	Depth Below G.L.	Datum Level		ample type and depth	Progress	Install- ation
TOPSOIL. (Driller's description)		0.50	- - -				
MADE GROUND: Black ash and brick fill. (Driller's description)		0.50		ES1	1.00 - 1.20		
SANDSTONE. (Driller's description)		2.30	- - 				
Sampling complete at 2.50 m.		2.50					
			-				

NOTES: All depths in metres, all diameters in millimetres,
Water strike rise time in minutes. See legend sheet
for key to symbols

Strike at

depth

Date

WATER STRIKES

Rise to

depth

Time taken

Form	ARIAL WINDOW LOG
Version	3.06
Revised	07/04/2005

GENERAL NOTES

Inspection pit hand excavaled from GL to 1.20m.
 50mm standpipe installed to 2.30m, slotted from 0.50m to 2.30m.

Casing depth to seal flow

Casing depth

at strike time



Terrier

PΒ

PΒ

Hole ID. **BH12**

Sheet 1 of 1

Contract No.

F14826

Project

Gateacre School, Liverpool

Method

Logged by

Window Sampling

Coordinates

Sampling Rig

Ground Level

Client

Liverpool City Council

Driller

Orientation

Date Started

Vertical 23/04/2007

Consultant

Wm Saunders Partnership

Date Completed

23/04/2007

Description of Strata	Legend	Depth Below G.L.	Datum Level	Sample type and depth		Progress	Install- ation
TOPSOIL. (Driller's description) SAND and GRAVEL. (Driller's description)		0.20	- - - - - -	ES1	1.00 - 1.20		
SANDSTONE. (Driller's description) Sampling complete at 1.20 m.		1,20		EGI	1.00 - 1.20		
				20,000			

			GENERAL NOTES					
Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow	Inspection pit hand excavated from GL to 1.20m. Somm standpipe installed to
								1.20m, slotted from 0.40m to 1,20m.
			·					

Form	ARIAL WINDOW LOG
Version	3,06
Revised	07/04/2005



Hole ID. **BH13**

Sheet 1 of 1

Contract No.

F14826

Project

Gateacre School, Liverpool

Method

Driller

Logged by

Window Sampling

Coordinates

Sampling Rig

Terrier

РΒ

РΒ

Ground Level

Client

Liverpool City Council

Orientation

Vertical

Consultant

Wm Saunders Partnership

Date Started

24/04/2007

Date Completed

24/04/2007

Description of Strata	L.egend	Depth Below G.L.	Datum Level		ample type and depth	Progress	Inst atio
OPSOIL. (Driller's description)		0.20	_				
AND and GRAVEL. (Driller's description)		1.00	- - - -	ES1	1.00 - 1.20		
ANDSTONE. (Driller's description)		1.20	in.	L31	1.00 - 1.20		
ampling complete at 1.20 m.		1.20	Ł				
						-	
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			E				İ
			F				

	-		GENERAL NOTES					
Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow	Inspection pit hand excavated from GL to 1,20m.
								S0mm standpipe installed to 1.00m, slotted from GL to 1.00m.
,								

Form	ARIAL WINDOW LOG
Version	3.06
Revised	07/04/2005



Hole ID. **BH14**

Sheet 1 of 1

Contract No.

Project

Client

F14826

Gateacre School, Liverpool

Liverpool City Council

Method

Driller

Sampling Rig

Logged by

Window Sampling

Coordinates

Ground Level

Orientation

Vertical

Date Started

24/04/2007

Terrier PB

РΒ

Consultant

Wm Saunders Partnership

Date Completed

24/04/2007

Description of Strata	Legend	Depth Below G.L.	Datum Level			Progress	Install ation	
OPSOIL. (Driller's description)		0.20	_					
AND and GRAVEL. (Driller's description)			-	ES1	1.00 - 1.20			
ANDSTONE. (Driller's description)		1.00	F	E51	1.00 - 1.20			
ampling complete at 1.20 m.		1.20	Ē					
			_					
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			E					
			_					
			E					
			Ē					
			-					
			F					
			Ē					
			F					

			GENERAL NOTES					
Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow	Inspection pit hand excavated from GL to 1.20m. Somm standpipe installed to
								1.00m, slotted from GL to 1.00m.
		1						
				1		1		

For	m	ARIAL WINDOW ŁOG
Ve	rsion	3.06
Re	vised	D7/04/2005



Hole ID. **BH15**

Sheet 1 of 1

Contract No.

F14826

Project

Gateacre School, Liverpool

Method

Window Sampling

Coordinates

Sampling Rig Driller

Logged by

Ground Level

Client

Liverpool City Council

Terrier PB

Orientation

Vertical

Consultant

Wm Saunders Partnership

Date Started

24/04/2007

Date Completed

24/04/2007

Description of Strata	Legend	Depth Below G.L.	Datum Level		ample type and depth	Progress	Insta atio
TOPSOIL. (Driller's description)		0.20					
MADE GROUND: Soil ash fill. (Driller's description)		1.00	- - - - -	ES1	1.00 - 1.20		
SANDSTONE. (Driller's description)		1.20	-				
Sampling complete at 1.20 m.			E	İ			
			1-				
			F				
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			GENERAL NOTES								
Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow	Inspection pit hand excavated from GL to 1.20m. Somm standpine installed to			
								50mm standpipe installed to 1.00m, slotted from GL to 1.00m.			
					-						
		ĺ					1				

Form	ARIAL WINDOW LOG
Version	3.06
Revised	07/04/2005



Hole ID. **BH16**

Sheet 1 of 1

Contract No.

F14826

Method Window Sampling Coordinates

Project

Gateacre School, Liverpool

Sampling Rig

Driller

Logged by

Ground Level

Client

Liverpool City Council

Terrier PB

PB

Orientation

Vertical

Consultant

Wm Saunders Partnership

Date Started

24/04/2007

Date Completed

24/04/2007

Description of Strata	Legend	Depth Below	Datum Level		ample type and depth	Progress	Install- ation
TOPSOIL. (Driller's description)		G.L.	-				
MADE GROUND: Soil ash fill. (Driller's description)		0.50		ES1	1.00 - 1.20		
SAND and GRAVEL. (Driller's description)		2.50					
SANDSTONE. (Driller's description)		2.90 3.00	F				sidenti.
Sampling complete at 3.00 m.							

Casing depth at strike time to seal flow

NOTES: All depths in metres, all diameters in millimetres,	
Water strike rise time in minutes. See legend sheet	
for key to symbols.	

Strike at

Date

Time

WATER STRIKES

Time taken

to rise

Flow

Rise to

depth

Form	ARIAL WINDOW LOG
Version	3.06
Revised	07/04/2005

GENERAL NOTES

Inspection pit hand excavated from GL to 1.20m.
 50mm standpipe installed to 2.90m, slotted from 1.00m to 2.90m.

NORWEST O

Norwest Holst Soil Engineering Ltd. TRIAL PIT LOG

Hole ID.
TP2
Sheet 1 of 1

Contract No.

F13512

Method

Machine Excavated

Coordinates

Ground Level Date Started

30/07/2004

Client

Project

Liverpool City Council

Gateacre School, Liverpool

Logged by

Equipment

SB

JCB 3CX

Date Completed

30/07/2004

Consultant

WSP

Description of Strata	Legend
TOPSOIL dark orangish brown clayey sand with occasional cobbles (upto 200mm diameter) of sandstone.	
Very weak thinly bedded reddish brown coarse grained SANDSTONE. Recovered as thin tabular angular cobbles. —at 0.50m sandstone dips 20-280 deg Trial pit complete at 0.70 m.	

nd	Depth Below G.L.	Datum Level		ampling	Remarks
	0.20		D1 B2 B3	0.00 - 0.20 0.00 - 0.20 0.20 - 0.70	-
	0.70	-			
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		- - - - -			
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		- - -			- - - -
		- - -			[- -
		- - -			
		-			

Stability

Stable

Shoring

None used

Groundwater

None encountered

Remarks

Rock too strong to progress beyond 0.70m.

Sket	ch Plan of Trial	Pit
	Α	
<	2.00m	>
A		
D 1.00m		В
V		
,		
	С	Bearing 60°

Form	ARIAL TP LOG
Version	3.05
Revised	15/02/2006

Norwest Holst Soil Engineering Ltd. TRIAL PIT LOG

Hole ID. TP3 Sheet 1 of 1

Contract No.

F13512

Method

Machine Excavated

Coordinates

Project

Gateacre School, Liverpool

Equipment

Logged by

JCB 3CX

Ground Level

Client

Liverpool City Council

Date Started

30/07/2004

Consultant

WSP

SB

Date Completed

30/07/2004

Description of Strata	Legend	Depth Below G.L.	Datum Level	S	ampling	Remarks
TOPSOIL dark orangish brown clayey sand with frequent cobbles (upto 150mm) of red sandstone.		0.30	-	D1 B2 D3	0.00 - 0.30 0.00 - 0.30 0.30 - 1.30	
Orange slightly gravelly angular medium to coarse SAND. Gravel is subrounded fine to coarse of sandstone.			- - -	B4	0.30 - 1.30	
at 1.13m becoming very dense and gravelly	0 0 0	1.30		D5	1.30 - 1.80	
Very weak very highly weathered thinly bedded red coarse grained SANDSTONE. Recovered as sand and gravel with occasional cobbles. —-from 1.70m moderately weak		1.80	-	B6	1.30 - 1.80	
Trial pit complete at 1.80 m.			-			- - -
			- -			-
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	<u> </u>		-			

Stability

Stable

Shoring

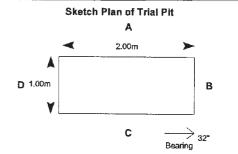
None used

Groundwater

None encountered

Remarks

At 1.80m insufficently weak to proceed



Form	ARIAL TP LOG
Version	3.05
Revised	15/02/2006

NORWEST •

Norwest Holst Soil Engineering Ltd. TRIAL PIT LOG

JCB 3CX

SB

Hole ID.

TP4

Sheet 1 of 1

Contract No.

F13512

Method

Machine Excavated

Coordinates

Project

Gateacre School, Liverpool

Equipment

Ground Level

30/07/2004

Client

Liverpool City Council

Logged by

Date Started
Date Completed

30/07/2004

Consultant

WSP

Description of Strata	Legend	Depth Below G.L.	Datum Level	s	Sampling	Remarks
TOPSOIL. MADE GROUND dark reddish brown slightly clayey sand with angular coarse gravel sized fragments of concrete, brick and tile locally dark brown.		0.10		D1 B2	0.10 - 1.30 0.10 - 1.30	-
Very weak locally weak thinly bedded brownish red coarse grained SANDSTONE. Recovered as angular fine to coarse gravel and cobbles. Becoming less weak with depth. at 2.00m moderately strong Trial pit complete at 2.00 m.		1.30		D3 B4	1.30 - 2.00 1.30 - 2.00	-
			-			
			}- - - - - - - - - - - - - - - - - - -			
						-
			- - - -			- - - -

Stability

Slight spalling from face C

Shoring

None used

Groundwater

None encountered

Remarks

Sketch Plan of Trial Pit

A

1.20m

Bearing

Form	ARIAL TP LOG
Version	3.05
Revised	15/02/2006

Norwest Holst Soil Engineering Ltd. TRIAL PIT LOG

Hole ID. TP5 Sheet 1 of 1

Contract No.

F13512

Method

Machine Excavated

Coordinates

Project

Gateacre School, Liverpool

JCB 3CX

Ground Level Date Started

30/07/2004

Client

Liverpool City Council

Logged by

Equipment

SB

Date Completed

30/07/2004

Consultant

WSP

Description of Strata	Legend	Depth Below G.L.	Datum Level	S	ampling	Remarks
MADE GROUND: Dark brown slightly clayey fine to coarse sand with angular coarse cobble sized fragments of sandstone.		1.00		B1 D2	0.00 - 1.00 0.00 - 1.00	-
MADE GROUND: Dark orangish brown becoming black ashy domestic refuse including glass bottles, brick and tile. Occasional decomposing wood and newspaper. Strong odour of decaying.		2.00	- - - - - - -	D4	1.00 - 2.00	
Trial pit complete at 2.00 m.		2.00	-			-
						-
			<u></u>			- - - -
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		Ì	-			-
						-
			F		and a second of	<u>-</u>

Stability

Unstable below 2.00m

Shoring

None used

Groundwater

Remarks

None encountered

Sketch Plan of Trial Pit 1.00m D 2.50m В C → _{145°} Bearing

Form	ARIAL TP LOG
Version	3.05
Revised	15/02/2006

Norwest Holst Soil Engineering Ltd. TRIAL PIT LOG

Hole ID. TP6 Sheet 1 of 1

Contract No.

F13512

Method

Machine Excavated

Coordinates

Project

Gateacre School, Liverpool

JCB 3CX Equipment

SB

Ground Level Date Started

30/07/2004

Client

Liverpool City Council

Logged by

Date Completed

30/07/2004

Consultant

WSP

Description of Strata	Legend	Depth Below G.L.	Datum Level	S	ampling	Remarks
TOPSOIL.		0,10		D1 B2	0.10 - 0.70 0.10 - 0.70	
MADE GROUND: Dark brown clayey sand with occasional angular coarse gravel sized fragments of brick and fabric.		0.70	-	D3	0.70 - 1.00	-
MADE GROUND: Dark reddish orangish brown clayey sand with frequent angular coarse gravel sized fragments of pottery and brick.		1.00	- - - - -	B4 B7	0.70 - 1.00 1.00 - 3.00	- - - -
MADE GROUND: Dark grey ashy domestic refuse including bottles, shoes and cooking utensils.			- - - -	D5	1.50	
			- - - -	D6	2.50	
			- - - - - -	B8	3.00	-
Trial pit complete at 3.80 m.		3.80	_	B9	3.80	<u>-</u>
	}		- - - - - - - - -			

Stability

Stable

Shoring

None used

Groundwater

None encountered

Remarks

Sample B8 is of slag. Sample B9 contains artifacts from

waste.

•	_	•	
	Sketch	n Plan of Tria	al Pit
		Α	
	< □	1.20m	>
A		•	
D 2,60m			В
٧			
7 1			
		С	Bearing 150°

Form	ARIAL TP LOG
Version	3.05
Revised	15/02/2006

Norwest Holst Soil Engineering Ltd. TRIAL PIT LOG

Hole ID. TP7 Sheet 1 of 1

Contract No.

F13512

Method

Machine Excavated

Coordinates

Project

Gateacre School, Liverpool

JCB 3CX

Ground Level Date Started

30/07/2004

Client

Liverpool City Council

Logged by

Equipment

SB

Date Completed

1.80 - 2.80 1.80 - 2.80

2.80 - 4.00 2.80 - 4.00

D8 89

30/07/2004

Consultant

domestic refuse and shoes.

WSP

Description of Strata	Legend	Depth Below G.L.	Datum Level	S	Sampling	Remarks
TOPSOIL.		0.10		D1 B2	0.10 - 0.80 0.10 - 0.80	
MADE GROUND: Pale orangish brown clayey sand with angular fine to coarse gravel sized fragments of brick and sandstone.		0.80		D3	0.10 - 0.80	- - - - -
at 0.40m becoming very orange and very gravelly		0.50	_	B4 B5	0.80 - 1.80 0.80 - 1.80	-
MADE GROUND: Greyish orange becoming grey ashy domestic refuse including glass bottles, boxes					0.00	- - - -

---at 3.00m several shoes

----at 1.50m strong rotting odour

Trial pit complete at 4.00 m.

4.00		
-		
<u>-</u>	1	

Stability

Stable

Shoring

None used

Groundwater

None encountered

Sketch Plan of Trial Pit 1.00m **p** 3,00m В C → _{150°} Bearing

Remarks

	· · · · · · · · · · · · · · · · · · ·	
Form	ARIAL TP LOG	
Version	3.05	
Revised	15/02/2006	