

# Trial Pit Record

**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**



Osprey House  
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Manchester, M50 2UE  
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## SUBSURFACE PROFILE

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75 100	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.	0.60					
1.0		MADE GROUND: Red gravelly fine to coarse sand. Gravel is fine to coarse sub-angular to sub-rounded of sandstone.	1.20					
2.0		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.						
3.0								
4.0			4.20					
5.0		Red weathered SANDSTONE recovered as gravel and cobbles.	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 5.00m

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

Stability: Stable

Groundwater: None encountered

Date: 10/04/13

Status: Final

# Trial Pit Record

**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

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm)					Field / Laboratory Testing
							0	25	50	75	100	
		MADE GROUND: Brown gravelly clayey fine sand. Gravel is fine to coarse sub-angular to sub-rounded of glass and brick.	0.40									
1.0		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.										
2.0												
3.0				ES	3.00							
4.0												
			4.60									
		Red weathered SANDSTONE recovered as cobbles.	4.80									
5.0		Complete at 4.80m 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 0.85 x 4.80m

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

Stability: Stable

Groundwater: None encountered

Date: 10/04/13

Status: Final

# Trial Pit Record

**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

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75 100	Field / Laboratory Testing
0.0		MADE GROUND: Brown gravelly clayey fine sand. Gravel is fine to coarse angular to sub-rounded of sandstone and brick. Cobbles are sub-angular to sub-rounded of brick and sandstone.	0.50					
1.0		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.						
2.0								
3.0								
3.50			3.50	B	3.50			
4.0		Red weathered SANDSTONE recovered as gravel and cobbles.	4.10					
4.10								
5.0		Complete at 4.10m 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 4.10m

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

Stability: Stable

Groundwater: None encountered

Date: 10/04/13

Status: Final

# Trial Pit Record

**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

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm)					Field / Laboratory Testing
							0	25	50	75	100	
		MADE GROUND: Brown gravelly fine sand with many cobbles. Gravel is coarse sub-angular of brick and sandstone. Cobbles are sub-angular of sandstone.	0.30									
1.0		MADE GROUND: Red black brown ashy clayey gravelly sand. Gravel is fine to coarse sub-angular to angular of clinker bottles and metal pipes.	1.30									
		Red weathered SANDSTONE recovered as gravel and cobbles.	2.00									
2.0		Complete at 2.00m 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 2.00m

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

Stability: Stable

Groundwater: None encountered

Date: 10/04/13

Status: Final

# Trial Pit Record

**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

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75 100	Field / Laboratory Testing
		MADE GROUND: Brown gravelly clayey fine sand. Gravel is coarse rounded to sub-angular of brick.	0.40	ES	0.30			
1.0		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.	2.00					
2.0		Red weathered SANDSTONE recovered as gravel and cobbles.	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

Date: 10/04/13

Status: Final

# Trial Pit Record

**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

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm)					Field / Laboratory Testing
							0	25	50	75	100	
		MADE GROUND: Brown gravelly clayey fine sand. Gravel is fine to coarse sub-angular to sub-rounded of brick and sandstone.	0.70									
1.0		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.										
2.0												
3.0												
4.0		Red weathered SANDSTONE recovered as gravel and cobbles.	3.80									
		Complete at 4.40m bgl.	4.00									
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 4.00m

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

Stability: Stable

Groundwater: None encountered

Date: 10/04/13

Status: Final

# Trial Pit Record

**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

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm)					Field / Laboratory Testing
							0	25	50	75	100	
		MADE GROUND: Brown gravelly clayey fine sand. Gravel is fine to coarse sub-angular to sub-rounded of brick and sandstone.	0.60									
1.0		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									
2.0		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.										
3.0												
4.0												
5.0		Red 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 5.00m

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

Stability: Stable

Groundwater: None encountered

Date: 10/04/13

Status: Final

# Trial Pit Record

**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

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm)					Field / Laboratory Testing
							0	25	50	75	100	
		MADE GROUND: Brown gravelly clayey fine sand with many cobbles. Gravel is coarse sub-rounded brick and sandstone. Cobbles of angular brick.	0.40									
			0.60									
1.0		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.										
2.0												
3.0												
4.0												
			4.30									
		Red weathered SANDSTONE recovered as gravel and cobbles.	4.50	B	4.50							
5.0		Complete at 4.50m 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 4.50m

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

Stability: Stable

Groundwater: None encountered

Date: 10/04/13

Status: Final



# Trial Pit Record

**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

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm)					Field / Laboratory Testing
							0	25	50	75	100	
		MADE GROUND: Brown gravelly clayey fine sand. Gravel is coarse sub-rounded of brick and sandstone.	0.70									
1.0		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.										
2.0												
3.0			3.30	ES	2.50							
		Red weathered SANDSTONE recovered as gravel and cobbles.	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

Date: 10/04/13

Status: Final

# Trial Pit Record

**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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## SUBSURFACE PROFILE

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm)					Field / Laboratory Testing
							0	25	50	75	100	
1.0		MADE GROUND: Brown gravelly clayey fine to medium sand. Gravel is medium to coarse angular to sub-rounded of sandstone and brick.	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									
2.0		Red weathered SANDSTONE.	2.00									
		Complete at 2.00m 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 2.00m

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

Stability: Stable

Groundwater: None encountered

Date: 10/04/13

Status: Final

# Trial Pit Record

**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

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm)					Field / Laboratory Testing
							0	25	50	75	100	
		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.										
2.0		Red SANDSTONE.	2.00									
		Complete at 2.00m 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 2.00m

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

Stability: Stable

Groundwater: None encountered

Date: 10/04/13

Status: Final

# Trial Pit Record

**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

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75 100	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					
2.0		Red weathered SANDSTONE recovered as gravel and cobbles.	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

Date: 10/04/13

Status: Final

# Trial Pit Record

**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

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm)					Field / Laboratory Testing
							0	25	50	75	100	
		MADE GROUND: Brown gravelly clayey fine sand. Gravel is fine to coarse angular to sub-rounded of sandstone.	0.40									
1.0		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.										
2.0		At 2.00m bgl wooden boards.										
		Becoming grey clayey fine sand between 2.40m- 2.60m bgl.										
3.0			3.50									
4.0		Red weathered SANDSTONE.										
		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

Date: 10/04/13

Status: Final

# Trial Pit Record

**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

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm)					Field / Laboratory Testing
							0	25	50	75	100	
		MADE GROUND: Brown gravelly clayey fine sand. Gravel is fine to coarse angular to sub-rounded of brick and sandstone.	0.30									
1.0		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.										
2.0												
3.0												
4.0												
		Red SANDSTONE.	4.20									
			4.50									
5.0		Complete at 4.50m 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 4.50m

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

Stability: Stable

Groundwater: None encountered

Date: 10/04/13

Status: Final

# Trial Pit Record

**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

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75 100	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.						
2.0			2.50					
		Red SANDSTONE bedrock.	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

Date: 10/04/13

Status: Final

# Trial Pit Record

**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

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75 100	Field / Laboratory Testing
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					
2.0		MADE GROUND: Black ashy clayey gravelly 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				B	2.50			
4.0								
		At c. 4.80... Sandstone.	4.80					
5.0		Terminated at 4.80m bgl due to refusal on sandstone.						
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

Date: 10/04/13

Status: Final



# Trial Pit Record

**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

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm)					Field / Laboratory Testing
							0	25	50	75	100	
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			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 sub-angular to sub-rounded of sandstone and brick.										
3.0				ES	3.00							
4.0				B	4.00							
4.80		At c.4.80m... Sandstone.	4.80									
5.0		Terminated at 4.80m bgl due to refusal.										
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

Date: 10/04/13

Status: Final

# Trial Pit Record

**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

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm)					Field / Laboratory Testing
							0	25	50	75	100	
		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.	1.50	ES	1.50							
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.	2.50	ES	2.50							
		Red weathered SANDSTONE.										
3.0		Complete at 2.60m 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 2.60m

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

Stability: Stable

Groundwater: None encountered

Date: 10/04/13

Status: Final

# Trial Pit Record

**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

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75 100	Field / Laboratory Testing
		MADE GROUND: Brown clayey gravelly fine sand. Gravel is fine to coarse sub-angular to sub-rounded of brick and sandstone.	0.30					
1.0		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.	1.50					
		Complete at 1.50m 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 1.50m

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

Stability: Stable

Groundwater: None encountered

Date: 10/04/13

Status: Final

# Trial Pit Record

**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

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm)					Field / Laboratory Testing
							0	25	50	75	100	
		MADE GROUND: Grey concrete.	0.20									
		Red very sandy clayey gravel with some cobbles. Gravel is medium to coarse sub-angular to angular of sandstone. Cobbles are sub-angular to angular of sandstone.	0.80	B	0.60							
1.0		SANDSTONE bedrock.	1.00									
		Complete at 1.00m 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 1.00m

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

Stability: Stable

Groundwater: None encountered

Date: 10/04/13

Status: Final

# Trial Pit Record

**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

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75 100	Field / Laboratory Testing
1.0		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.	1.10					
		MADE GROUND: Grey brown gravelly coarse sand. Gravel is coarse angular of brick. Cobbles sub-angular to angular of brick.	1.30					
2.0		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					
3.0		Red weathered SANDSTONE recovered as gravel and cobbles.	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

Date: 10/04/13

Status: Final

# Trial Pit Record

**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

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm)					Field / Laboratory Testing
							0	25	50	75	100	
		MADE GROUND: Brown gravelly clayey fine sand. Gravel is angular to sub-angular fine to coarse of brick and sandstone.	0.20									
1.0		Red very sandy GRAVEL with some cobbles. Gravel is fine to coarse angular to sub-rounded of sandstone. Cobbles are angular to sub-angular of sandstone.		ES	0.80							
		Becoming yellow grey at 1.70m bgl.		B	1.70							
2.0			2.00									
		Complete at 2.00m 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

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

Date: 10/04/13

Status: Final

# Trial Pit Record

**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

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm)					Field / Laboratory Testing
							0	25	50	75	100	
		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									
		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									
1.0			1.50									
		Grey red SANDSTONE recovered as gravel and cobbles.										
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

Date: 10/04/13

Status: Final

# Trial Pit Record

**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

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm)					Field / Laboratory Testing
							0	25	50	75	100	
		MADE GROUND: Black asphalt.										
1.0		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												

### 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

Date: 10/04/13

Status: Final



# Trial Pit Record

**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

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75 100	Field / Laboratory Testing
		MADE GROUND: Grey concrete.	0.20					
1.0		Red clayey gravelly coarse SAND. Gravel is fine to coarse angular to sub-angular of sandstone.						
2.0		Becoming sub-angular to rounded at 1.80m bgl.	2.00					
		Red grey SANDSTONE recovered as gravel and cobbles.	2.20					
3.0		Complete at 2.20m 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 2.20m

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

Stability: Stable

Groundwater: None encountered

Date: 10/04/13

Status: Final

# Trial Pit Record

**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

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm)					Field / Laboratory Testing
							0	25	50	75	100	
		MADE GROUND: Grey concrete.	0.20									
		Red gravelly fine to coarse SAND. Gravel is coarse angular of sandstone.										
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

Date: 10/04/13

Status: Final

# Trial Pit Record

**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

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm)					Field / Laboratory Testing
							0	25	50	75	100	
		MADE GROUND: Grey concrete.	0.20									
		Red gravelly fine to coarse SAND. Gravel is coarse angular of sandstone.										
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

Date: 10/04/13

Status: Final

# Trial Pit Record

**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

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75 100	Field / Laboratory Testing
		MADE GROUND: Black grey gravel. Gravel is coarse angular to sub-angular of asphalt.						
1.0		Grey / red gravelly coarse SAND. Gravel is fine to coarse sub-angular of sandstone. Becoming red at 0.80m bgl.	1.20	ES B	0.80 1.00			
2.0		Complete at 1.20m 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

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

Date: 10/04/13

Status: Final

# Trial Pit Record

**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

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75 100	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 sub-angular of sandstone. Cobbles are angular to sub-angular sandstone.	1.30					
2.0		Complete at 1.30m 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

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

Date: 10/04/13

Status: Final

# Trial Pit Record

**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**

**Co-ordinates: N/A**

**Excavation Method: JCB 3CX**



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## SUBSURFACE PROFILE

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75 100	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.	0.45					
1.0		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.						
2.0								
			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 2.50m

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

Stability: Stable

Groundwater: None encountered

Date: 10/04/13

Status: Final

# Trial Pit Record

**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

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75 100	Field / Laboratory Testing
		MADE GROUND: Grey concrete.						
		MADE GROUND: Red sandy cobbles. Cobbles are angular to sub-angular of brick.						
			0.80					
1.0		MADE GROUND: Grey concrete.						
		Red gravelly SAND. Gravel is coarse sub-angular of sandstone.						
2.0								
		At c.2.50m... Red weathered 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

Date: 10/04/13

Status: Final

# Trial Pit Record

**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

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75 100	Field / Laboratory Testing
		MADE GROUND: Brown gravelly clayey fine sand. Gravel is fine to coarse angular to sub-angular of brick and sandstone.	0.20					
1.0		Red sandy gravelly cobbles. Cobbles are sub-angular to sub-rounded of sandstone.						
		At c. 1.30m... Red weathered SANDSTONE.	1.30					
2.0		Complete at 1.30m 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 1.30m

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

Stability: Stable

Groundwater: None encountered

Date: 10/04/13

Status: Final



# Trial Pit Record

**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

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	Water Level (mbgl)	P.I.D (ppm) 0 25 50 75 100	Field / Laboratory Testing
		MADE GROUND: Red brown gravelly clayey fine to coarse sand. Gravel is fine to coarse sub-angular to angular of asphalt and brick.	0.30					
1.0		Red brown gravelly sandy cobbles. Cobbles are angular to sub-angular of sandstone.	1.20					
2.0		Complete at 1.20m 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 1.20m

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

Stability: Stable

Groundwater: None encountered

Date: 10/04/13

Status: Final

# Borehole Record - Window Sample

**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

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitoring Installation / 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	4/3/3/2/2 N= 10		
2.0				ES	1.70			
				SPT	2.00-2.45	2/1/3/3/3 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		
4.0		Terminated at 3.10m bgl on sandstone.						
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

Status: Final

# Borehole Record - Window Sample

**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

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitoring 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 is sub-angular to angular of sandstone.		ES	0.60			
1.0				SPT	1.00-1.45	2/3/3/1/1/0 N= 4		
2.0		Medium dense at c2.00m bgl.		SPT	2.00-2.45	5/2/2/3/4/8 N= 17		
			2.40					
		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.		SPT	3.00-3.33	12/13 for 60mm 18/18/14 for 50mm N= 50		
			3.33					
		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).

Addition of water: None added

Casing diameter: 110mm

Date logged: 09/04/13

Status: Final

# Borehole Record - Window Sample

**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

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitoring Installation / Backfill
1.0		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			
2.0		MADE GROUND: Loose black very gravelly slightly ashy sand with clinker. Gravel is medium to coarse sub-angular to angular of sandstone		SPT	1.00-1.45	2/1/2/1/1/1 N= 5		
3.0		At c.2.00m... Very loose.		SPT	2.00-2.45	1/0/0/0/0/0 N= 0		
4.0		Below c.3.00m bgl becomes medium dense.		SPT	3.00-3.45	6/8/9/4/3/2 N= 18		
5.0			4.50	ES	3.50			
		Very dense reddish brown gravelly fine to medium SAND. Gravel is medium to coarse sub-angular to angular of sandstone.		SPT	4.00-4.45	1/1/1/1/1/12 N= 15		
			5.10	ES	4.70			
				SPT	5.00-5.10	25 for 65mm 50 for 30mm N= 50		
6.0		Terminated at 5.10m bgl on sandstone.						

### 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).

Addition of water: None added

Casing diameter: 110mm

Date logged: 09/04/13

Status: Final

# Borehole Record - Window Sample

**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

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitoring Installation / Backfill
		MADE GROUND: Topsoil. Dark brown slightly clayey fine to medium sand.	0.40	ES	0.20			
1.0		MADE GROUND: Medium dense black ash with clinker and occasional fragments of glass and plastic.		SPT	1.00-1.45	1/0/0/0/10 N= 10		
		Very dense reddish brown / black gravelly fine to medium SAND. Gravel is sub-angular to rounded medium to coarse of sandstone.	1.30 1.41	SPT	1.40-1.41	25 for 10mm 50 for 5mm N= 50		
2.0		Terminated at 1.41m 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

Status: Final

# Borehole Record - Window Sample

**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

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitoring Installation / Backfill
		MADE GROUND: Topsoil. Soft to firm dark brown fine to medium sandy clay.	0.20					
		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.	0.90	ES	0.40			
1.0		(Pocket of firm to stiff mottled sandy clay at 0.60-0.80m bgl)		SPT	1.00-1.45	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				ES	2.70			
				SPT	3.00-3.45	6/3/2/2/2/1 N= 7		
4.0				SPT	4.00-4.45	Sunk N= N/A		
			4.60					
		Very dense reddish brown gravelly fine to medium SAND. Gravel is sub-angular to angular medium to coarse of sandstone.	4.91	ES	4.70			
5.0				SPT	4.90-4.91	35 for 70mm 50 for 5mm N= 50		
6.0		Terminated at 4.90m bgl on sandstone.						

### 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).

Addition of water: None added

Casing diameter: 110mm

Date logged: 09/04/13

Status: Final

# Borehole Record - Window Sample

**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

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	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.	0.40	ES	0.20			
1.0		MADE GROUND: Loose dark brown black gravelly ashy fine to medium sand with clinker. Gravel is sub-angular to angular of sandstone.	1.40	ES SPT	0.90 1.00-1.45	1/00/1/0/6 N= 7		
2.0		Very dense reddish brown gravelly fine to medium SAND. Gravel is sub-angular to angular medium to coarse of sandstone.	2.10	ES	1.50			
				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								

### 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).

Addition of water: None added

Casing diameter: 110mm

Date logged: 09/04/13

Status: Final

# Borehole Record - Window Sample

**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

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	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		
			1.70	ES ES SPT	1.50 1.70 1.80-1.81	25 for 50mm/ 50 for 40mm N= 50		
2.0		Very dense reddish brown gravelly fine to medium SAND. Gravel is medium to coarse sub-angular to angular of sandstone.						
		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).

Addition of water: None added

Casing diameter: 110mm

Date logged: 09/04/13

Status: Final



# Borehole Record - Window Sample

**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

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	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 sub-angular to angular of sandstone.	0.70	ES	0.20			
1.0		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			
2.0				SPT	2.00-2.45	1/0/0/0/0/0 N= 0		
3.0			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			
4.0				SPT	4.00-4.45	0/0/0/0/0/0 N= 0		
			4.30					
		Very dense reddish brown gravelly fine to medium SAND. Gravel is sub-angular to angular of sandstone.	4.57	ES SPT	4.40 4.50-4.57	23/2 for 5mm / 50 for 60mm N= 50		
5.0		Terminated at 4.57m bgl on sandstone.						
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).

Addition of water: None added

Casing diameter: 110mm

Date logged: 09/04/13

Status: Final

# Borehole Record - Window Sample

**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

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitoring Installation / Backfill
		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	0.50			
				SPT	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								

### 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).

Addition of water: None added

Casing diameter: 110mm

Date logged: 09/04/13

Status: Final

# Borehole Record - Window Sample

**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

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitoring 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.		ES	0.20			
		Very dense reddish brown gravelly fine to medium SAND. Gravel is sub-angular to angular of sandstone.	0.57	SPT	0.50-0.57	25 for 30mm/ 50 for 40mm N= 50		
1.0		Terminated at 0.57m bgl on sandstone.						
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

Groundwater: None encountered

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

Addition of water: None added

Casing diameter: 110mm

Date logged: 09/04/13

Status: Final

# Borehole Record - Window Sample

**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

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitoring Installation / Backfill
0.0		MADE GROUND: Topsoil. Dark brown gravelly slightly ashy clayey fine to medium sand. Gravel is medium to coarse sub-angular to angular of sandstone.	0.40	ES	0.20			
0.4				ES	0.50			
1.0		Very dense reddish brown gravelly fine to medium SAND. Gravel is sub-angular to angular of sandstone.	1.45	SPT	1.00-1.45	6/9/9/10/14/17 for 50mm N= 50 for 275mm		
2.0		Terminated at 1.45 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).

Addition of water: None added

Casing diameter: 110mm

Date logged: 09/04/13

Status: Final

# Borehole Record - Window Sample

**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

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	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			
		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								
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).

Addition of water: None added

Casing diameter: 110mm

Date logged: 09/04/13

Status: Final

# Borehole Record - Window Sample

**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

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitoring 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		
2.0		Terminated at 1.10m 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

Status: Final

# Borehole Record - Window Sample

**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

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitoring Installation / Backfill
		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.	0.50	ES	0.50			
1.0		Very dense reddish brown gravelly fine to medium SAND. Gravel is medium to coarse sub-angular to angular of sandstone.	1.03	ES SPT	0.70 1.00-1.03	20/5 for 10mm/ 50 for 20mm N=50		
		Terminated at 1.03m bgl on sandstone.						
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

Groundwater: None encountered

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

Addition of water: None added

Casing diameter: 110mm

Date logged: 09/04/13

Status: Final

# Borehole Record - Window Sample

**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

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitoring Installation / 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 concrete.	0.40	ES	0.20			
				ES	0.50			
1.0		Very dense reddish brown gravelly fine to medium SAND. Gravel is medium to coarse sub-angular to angular of sandstone.	1.09	SPT	1.00-1.09	25 for 75mm / 50 for 10mm N= 50		
		Terminated at 1.09m bgl on sandstone.						
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

Groundwater: None encountered

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

Addition of water: None added

Casing diameter: 110mm

Date logged: 09/04/13

Status: Final



# Borehole Record - Window Sample

**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

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitoring Installation / Backfill
		MADE GROUND: Concrete.	0.20	ES	0.30			
1.0		Very dense reddish brown gravelly fine to medium SAND. Gravel is medium to coarse sub-angular to angular of sandstone.	1.37	SPT	1.00-1.37	8/11/13/17/20 for 70mm N= 50 for 220mm		
2.0		Terminated at 1.37m 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).

Addition of water: None added

Casing diameter: 110mm

Date logged: 09/04/13

Status: Final

# Borehole Record - Window Sample

**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

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitoring Installation / 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 concrete.		ES	0.40			
1.0			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).

Addition of water: None added

Casing diameter: 110mm

Date logged: 09/04/13

Status: Final

# Borehole Record - Window Sample

**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

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitoring Installation / Backfill
		MADE GROUND: Concrete.	0.20					
		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 concrete.	0.40	ES	0.30			
			0.60	ES	0.60			
1.0		MADE GROUND: Reddish brown gravelly fine to medium sand. Gravel is medium to coarse sub-angular to angular of sandstone and concrete.		SPT	1.00-1.45	1/2/2/19/23/27 for 60mm N= 50		
		Very dense reddish brown very gravelly fine to medium SAND. Gravel is medium to coarse sub-angular to angular of sandstone.	1.45					
2.0								
3.0		Terminated at 1.45m 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).

Addition of water: None added

Casing diameter: 110mm

Date logged: 09/04/13

Status: Final

# Borehole Record - Window Sample

**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

## SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitoring 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			
		Very dense reddish brown gravelly fine to medium sand. Gravel is medium to coarse sub-angular to angular of sandstone.	1.00	ES	0.60			
1.0				SPT	1.00-1.45	7/8/50 for 50mm N= 50		
1.0		Terminated at 1.00m bgl on sandstone.						
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

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

Status: Final

Contract No.	F13512	Method	Cable Percussion	Coordinates	-
Project	Gateacre School, Liverpool				-
		Drilling Rig	Dando 150	Ground Level	-
Client	Liverpool City Council	Driller	SL	Orientation	Vertical
		Logged by	JB	Date Started	07/10/2004
Consultant	WSP			Date Completed	07/10/2004

PROGRESS						BORING DETAILS			
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	

CASING				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	6.00	150	5.00								

GENERAL NOTES				SPT DETAILS				
1. Service inspection pit hand excavated GL to 1.20m. 2. Cable Percussive boring complete at 6.00m. 3. 50mm diameter standpipe installed with base of slotted pipe at 4.00m.				Depth	Type	Incremental blow count/penetration	Casing	Water Depth
				1.20	S	N=6 (1,0,1,2,2,1)	1.20	DRY
				2.00	S	N=5 (1,0,1,1,1,2)	2.00	NR
				3.00	S	N=3 (1,1,0,1,1,1)	3.00	NR
				4.00	S	N=5 (1,1,1,2,1,1)	4.00	NR
				5.00	S	50/92mm (14,11/32,38,12/17)	5.00	NR
				5.50	C	50/65mm (25/73,50/65)	5.50	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 CP HEADER
Version	3.03
Revised	19/01/2005

Contract No.	F13512	Method	Cable Percussion	Coordinates	-
Project	Gateacre School, Liverpool				-
		Drilling Rig	Dando 150	Ground Level	-
Client	Liverpool City Council	Driller	SL	Orientation	Vertical
		Logged by	JB	Date Started	07/10/2004
Consultant	WSP			Date Completed	07/10/2004

Description of Strata	Legend	Depth Below G.L.	Datum Level	Sampling	SPT N & (U blows)	SPT type & depth	Installation
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 subangular of brick.		0.80		B1 0.00 - 0.50 B2 0.50 - 1.20			
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.				D3 1.20 - 1.65 B4 1.20 - 1.65	S6	S 1.20	
				D5 1.80 D6 2.00 - 2.45 B7 2.00 - 2.45	S5	S 2.00	
				D8 2.80 D9 3.00 - 3.45 B10 3.00 - 3.45	S3	S 3.00	
				D11 3.80 D12 4.00 - 4.45 B13 4.00 - 4.45	S5	S 4.00	
		4.60		D14 4.80 D15 5.00 - 5.45 B16 5.00 - 5.45	S50/92mm	S 5.00	
Reddish brown medium to coarse grained SANDSTONE. Completely weathered. Recovered as medium to coarse sand and subrounded to subangular fine to coarse gravel.				D17 5.50 - 5.95	C50/65mm	C 5.50	
		6.00					
Cable Percussion boring complete at 6.00 m.							

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 CP LOG
Version	3.08
Revised	29/03/2006

Contract No.	F13512	Method	Cable Percussion & Rotary	Coordinates	-
Project	Gateacre School, Liverpool				-
		Drilling Rig	Dando 150/Deltabase R50	Ground Level	-
Client	Liverpool City Council	Drillers	SL/JM	Orientation	Vertical
		Logged by	JB/HW	Date Started	07/10/2004
Consultant	WSP	Core barrel	PWF	Date Completed	19/10/2004
		Core bit	PCD		

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	1400	5.20	4.70	DRY	End of CP	4.30	4.70	1.00	
19/10/2004	0700	5.20	4.70	DRY	Start of Rotary				
19/10/2004	1830	10.75	5.20	DRY	End of Hole				

CASING				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	5.20	150	4.70								
140	5.20	140	5.20								
120	10.75										

ROTARY DRILLING DETAILS					SPT DETAILS				
From depth	To depth	Flush type	Flush return	Core diameter	Depth	Type	Incremental blow count/penetration in mm	Casing	Water Depth
5.20	10.75	Air/Water	100%	92	1.20	S	N=3 (1,1,0,1,1,1)	1.20	NR
					2.00	S	N=5 (1,0,1,1,1,2)	2.00	NR
					3.00	S	N=5 (1,1,2,1,1,1)	3.00	NR
					4.00	S	N=34 (3,3,6,7,8,13)	4.00	NR
					4.70	S	50/75mm (16,9/26,50/75)	4.00	NR

GENERAL NOTES	
1. Service inspection pit hand excavated GL to 1.20m. 2. Cable Percussive boring from 1.20m to 5.20m. 3. Rotary follow on to 10.75m. 4. Borehole complete with 50mm standpipe installed to 4.00m.	

\* Seating blows only.

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

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

Contract No.	F13512	Method	Cable Percussion & Rotary	Coordinates	-
Project	Gateacre School, Liverpool				-
Client	Liverpool City Council	Drilling Rig	Dando 150/Deltabase R50	Ground Level	-
Consultant	WSP	Drillers	SL/JM	Orientation	Vertical
		Logged by	JB/HW	Date Started	07/10/2004
		Core Barrel	PWF	Date Completed	19/10/2004
		Core Bit	PCD		

Description of Strata	Legend	Depth Below G.L.	Datum Level	Sampling & coring	Blow Count				SPT type, N & depth	Installation
					TCR	SCR	RQD	IF		
MADE GROUND: Black slightly gravelly clayey fine to coarse sand with occasional cobbles and some rootlets. Gravel sized fragments are subangular to subrounded fine to coarse of sandstone, glass, brick and slate. Cobble sized fragments are subangular to subrounded of brick and sandstone.				B1 0.00-0.50 B2 0.50-1.20						
MADE GROUND: Black slightly clayey gravelly ash with some rootlets. Gravel sized fragments are angular to subangular fine to medium of slate, glass, tile, porcelain and wood. ---from 1.80m with occasional subangular cobble sized fragments of brick, slate, concrete and coal		1.20		D3 1.20-1.65 B4 1.20-1.65 D5 1.80 D6 2.00-2.45 B7 2.00-2.45 D8 2.80 D9 3.00-3.45 B10 3.00-3.45					S3 1.20 1.65 S5 2.00 2.45 S5 3.00 3.45	
Reddish brown medium to coarse grained SANDSTONE. Completely weathered. Recovered as medium to coarse sand and subrounded fine to medium gravel.		4.00		D11 3.80 D12 4.00-4.45 B13 4.00-4.45 D14 4.70-5.15					S34 4.00 4.45 S50/75mm 4.70 4.88	
Very weak to weak reddish brown medium to coarse grained SANDSTONE. Highly weathered. Recovered non intact as very sandy angular to subangular fine to coarse gravel. ---at 5.40m light brown grey		5.20 5.45		CS1 5.20 6.30	100	73	0		NI 30 60	
Weak reddish brown medium to coarse grained SANDSTONE. Moderately weathered. Discontinuities: 1) very closely to closely spaced subhorizontal planar rough. 2) medium spaced 45 deg planar rough. ---from 6.30m to 6.43m recovered non intact		6.43		CS2 6.30 7.80	100	80	26			
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. ---from 7.00m discontinuities closely spaced ---from 7.30m to 7.37m recovered non intact ---from 7.50m no set 2 discontinuities ---from 8.00m to 8.50m with closely spaced subangular to subrounded fine to coarse gravel of quartz and sandstone ---from 8.50m to 8.60m recovered non intact				CS3 7.80 9.25	100	88	72		NI 110 190	
---from 9.25m to 10.75m rare randomly spaced gravel										

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



Contract No.	F13512	Method	Cable Percussion & Rotary	Coordinates	-
Project	Gateacre School, Liverpool				-
		Drilling Rig	Dando 150/Deltabase R50	Ground Level	-
Client	Liverpool City Council	Drillers	SL/JM	Orientation	Vertical
		Logged by	JB/HW	Date Started	07/10/2004
Consultant	WSP	Core Barrel	PWF	Date Completed	19/10/2004
		Core Bit	PQD		

Description of Strata	Legend	Depth Below G.L.	Datum Level	Sampling & coring	Blow Count				SPT type, N & depth	Install- ation
					TCR	SCR	RQD	IF		
<p>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.</p> <p>Borehole complete at 10.75 m.</p>		10.75		CS4 9.25 10.75	100	88	41			

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

Contract No.	F13512	Method	Rotary Coring	Coordinates	-
Project	Gateacre School, Liverpool	Drilling Rig	Deltabase R50	Ground Level	-
		Driller	JM	Orientation	Vertical
Client	Liverpool City Council	Logged by	HW	Date Started	18/10/2004
		Core barrel	PWF	Date Completed	19/10/2004
Consultant	WSP	Core bit	PCD		

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	0700	5.00	2.10	DRY	Start of Shift					
19/10/2004	1830	11.00	2.10	DRY	End of Hole					

CASING				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
140	2.10	140	2.10								
120	11.00										

GENERAL NOTES	SPT DETAILS				
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.	Depth	Type	Incremental blow count/penetration	Casing	Water Depth

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



Contract No.	F13512	Method	Rotary Coring	Coordinates	-
Project	Gateacre School, Liverpool	Drilling Rig	Deltabase R50		-
		Driller	JM	Ground Level	-
Client	Liverpool City Council	Logged by	HW	Orientation	Vertical
Consultant	WSP	Core barrel	PWF	Date Started	18/10/2004
		Core bit	PCD	Date Completed	19/10/2004

Description of Strata	Legend	Drilled Length	Datum Level	Coring and Sampling	TCR	SCR	RQD	IF	SPT N & depth	Installation
MADE GROUND: Ash, brick fill. (Driller's description)										
SANDSTONE. Weathered. (Driller's description)		0.50 0.60								
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	0	
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 as sandy fine medium and coarse gravel ---at 2.10m slight clay infill on fracture				CS2	2.10	3.50	100	68	8	
---from 3.25m to 3.30m recovered non intact as slightly clayey slightly sandy gravel ---at 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	
---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				CS5	6.50	8.00	100	88	61	
---from 7.30m to 7.50m discontinuity: 50-60 deg planar rough										
---from 8.00m to 8.20m with closely spaced medium and coarse gravel of quartz										
---from 8.90m to 10.07m discontinuities medium spaced				CS6	8.00	9.50	100	90	79	

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

Contract No.	F13512	Method	Rotary Coring	Coordinates	-
Project	Gateacre School, Liverpool	Drilling Rig	Deltabase R50	Ground Level	-
		Driller	JM	Orientation	Vertical
Client	Liverpool City Council	Logged by	HW	Date Started	18/10/2004
Consultant	WSP	Core barrel	PWF	Date Completed	19/10/2004
		Core bit	PCD		

Description of Strata	Legend	Drilled Length	Datum Level	Coring and Sampling	TCR	SCR	RCD	IF	SPT N & depth	Installation
<p>Weak reddish brown medium to coarse grained SANDSTONE. Moderately to slightly weathered. Discontinuities: close to medium spaced subhorizontal bedding fractures planar rough.</p> <p>—from 10.07m to 10.27m discontinuities very closely spaced</p> <p>—from 10.20m to 10.27m medium grained brown grey sandstone</p> <p>—from 10.40m to 11.00m coarse grained sandstone with randomly spaced fine to coarse gravel</p> <p>—at 10.70m rounded coarse gravel of sandstone</p> <p>Rotary drilling complete at 11.00 m.</p>		11.00		CS7 9.50 11.00	100	92	73			

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

Contract No.	F13512	Method	Cable Percussion	Coordinates	-
Project	Gateacre School, Liverpool				
		Drilling Rig	Pilcon	Ground Level	-
Client	Liverpool City Council	Driller	AL	Orientation	Vertical
		Logged by	HW	Date Started	18/10/2004
Consultant	WSP			Date Completed	18/10/2004

PROGRESS						BORING DETAILS			
Date	Time	Hole depth	Casing depth	Water depth	Remarks	Hard Strata from depth	Hard Strata to depth	Chiselling hours	Remarks
18/10/2004	1730	3.90	3.20	DRY	End of Hole				

CASING				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								

GENERAL NOTES					SPT DETAILS				
1. Service pit hand excavated from GL to 1.20m. 2. Cable Percussive boring complete at 3.90m. 3. Borehole backfilled on completion.					Depth	Type	Incremental blow count/penetration	Casing	Water Depth

\* Seating blows only.

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

Elevated (02










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

Hole ID.

**BH04**

Sheet 1 of 1

Contract No.	F13512	Method	Cable Percussion	Coordinates	-
Project	Gateacre School, Liverpool				-
		Drilling Rig	Pilcon	Ground Level	-
Client	Liverpool City Council	Driller	AL	Orientation	Vertical
		Logged by	HW	Date Started	18/10/2004
Consultant	WSP			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.							
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 metal, wood fragments, bone, elastic, string, sandstone, ceramics and rubber. Cobble sized fragments are subangular of brick, rubber and scrap metal. <i>LF materials</i> —from 0.50m to 1.00m locally strong sulphurous odour		0.40		B1 0.50 - 1.00			
				B2 1.00 - 2.00			
		2.00		B3 2.00 - 3.00			
MADE GROUND: Dark brown slightly clayey very gravelly fine to coarse sand with occasional cobble sized fragments. Gravel sized fragments 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.		3.70		B4 3.00 - 3.70			
Reddish brown medium to coarse grained SANDSTONE. Recovered as angular to subangular medium to coarse gravel.		3.90		D5 3.90			
Cable Percussion boring complete at 3.90 m.							

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 CP LOG
Version	3.08
Revised	29/03/2006

Contract No.	F13931	Method	Rotary Openholing	Coordinates	1011.68 E
Project	Gateacre School	Drilling Rig	R41		1004.97 N
		Driller	GM	Ground Level	49.18m AOD
Client	Liverpool City Council	Logged by	GM	Orientation	Vertical
		Core barrel	N/A	Date Started	18/04/2005
Consultant	William Saunders Partnership	Core bit	5.75	Date Completed	18/04/2005

PROGRESS						DRILLING DETAILS				
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*





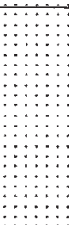
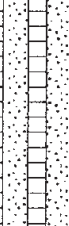


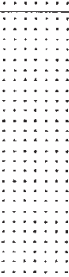
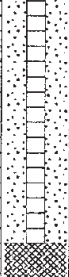

CASING				WATER STRIKES							
Hole diam.	Max depth of hole at dia.	Casing diameter	Max depth of casing of dia.	Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow
150	6.30										

GENERAL NOTES	SPT DETAILS				
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.	Depth	Type	Incremental blow count/penetration	Casing	Water Depth

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

Contract No.	F13931	Method	Rotary Openholing	Coordinates	1011.68 E
Project	Gateacre School	Drilling Rig	R41		1004.97 N
		Driller	GM	Ground Level	49.18m AOD
Client	Liverpool City Council	Logged by	GM	Orientation	Vertical
		Core barrel	N/A	Date Started	18/04/2005
Consultant	William Saunders Partnership	Core bit	5.75	Date Completed	18/04/2005

Description of Strata	Legend	Drilled Length	Datum Level	Coring and Sampling	TCR	SCR	ROD	SPT N & depth	Installation
Topsoil. (Drillers description).									
Weak red SANDSTONE. (Drillers description).		0.50	48.68						
Hard red SANDSTONE. (Drillers description).		2.50	46.68						
Yellow weak SANDSTONE. (Drillers description)		4.00	45.18						
Hard red SANDSTONE. (Drillers description).		4.50	44.68						
Rotary drilling complete at 6.30 m.		6.30	42.88						

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



Contract No.	F13931	Method	Rotary Openholing	Coordinates	958.00 E
Project	Gateacre School	Drilling Rig	R41		997.83 N
		Driller	GM	Ground Level	52.97m AOD
Client	Liverpool City Council	Logged by	GM	Orientation	Vertical
		Core barrel	N/A	Date Started	19/04/2005
Consultant	William Saunders Partnership	Core bit	5.75	Date Completed	19/04/2005

PROGRESS						DRILLING DETAILS				
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"

CASING				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	
<p>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.</p>	

SPT DETAILS				
Depth	Type	Incremental blow count/penetration	Casing	Water Depth

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

Contract No.	F13931	Method	Rotary Openholing	Coordinates	958.00 E
Project	Gateacre School	Drilling Rig	R41		997.83 N
		Driller	GM	Ground Level	52.97m AOD
Client	Liverpool City Council	Logged by	GM	Orientation	Vertical
Consultant	William Saunders Partnership	Core barrel	N/A	Date Started	19/04/2005
		Core bit	5.75	Date Completed	19/04/2005

Description of Strata	Legend	Drilled Length	Datum Level	Coring and Sampling	TCR	SCR	RQD	SPT N & depth	Installation
Weak red SANDSTONE. (Drillers description).									
		3.00	49.97						
Hard red SANDSTONE. (Drillers description).									
		6.30	46.67						
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

Contract No.	F13931	Method	Rotary Openholing	Coordinates	967.99 E
Project	Gateacre School	Drilling Rig	R41		940.39 N
		Driller	GM	Ground Level	51.63m AOD
Client	Liverpool City Council	Logged by	GM	Orientation	Vertical
		Core barrel	N/A	Date Started	19/04/2005
Consultant	William Saunders Partnership	Core bit	5.75	Date Completed	19/04/2005

PROGRESS						DRILLING DETAILS				
Date	Time	Hole depth	Casing depth	Water depth	Remarks	From depth	To depth	Flush type	Flush return	Core diameter
19/04/2005	1645	6.30	NR	DRY	End of Hole	1.20	6.30	Air	Full	0.00*












































CASING				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				
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.				Depth	Type	Incremental blow count/penetration	Casing	Water Depth

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

Contract No.	F13931	Method	Rotary Openholing	Coordinates	967.99 E
Project	Gateacre School	Drilling Rig	R41		940.39 N
		Driller	GM	Ground Level	51.63m AOD
Client	Liverpool City Council	Logged by	GM	Orientation	Vertical
		Core barrel	N/A	Date Started	19/04/2005
Consultant	William Saunders Partnership	Core bit	5.75	Date Completed	19/04/2005

Description of Strata	Legend	Drilled Length	Datum Level	Coring and Sampling	TCR	SCR	RQD	SPT N & depth	Installation
Tarmac. (Drillers description).		0.15	51.48						
Hard red SANDSTONE. (Drillers description)									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									

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	3.06
Revised	21/07/2005

Contract No.	F13931	Method	Rotary Openholing	Coordinates	996.81 E
Project	Gateacre School	Drilling Rig	R41		895.74 N
		Driller	GM	Ground Level	51.64m AOD
Client	Liverpool City Council	Logged by	GM	Orientation	Vertical
		Core barrel	N/A	Date Started	20/04/2005
Consultant	William Saunders Partnership	Core bit	5.75	Date Completed	20/04/2005

PROGRESS						DRILLING DETAILS				
Date	Time	Hole depth	Casing depth	Water depth	Remarks	From depth	To 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"

CASING				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				
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.				Depth	Type	Incremental blow count/penetration	Casing	Water Depth



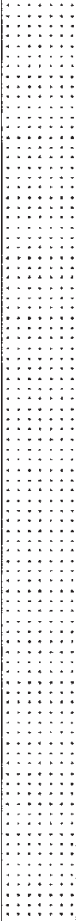

NOTES: All depths in metres, all diameters in millimetres, water strike rise time in minutes.

Form ARIAL ROTARY HEADER

Version 3.05

Revised 21/07/2005

Contract No.	F13931	Method	Rotary Openholing	Coordinates	996.81 E
Project	Gateacre School	Drilling Rig	R41		895.74 N
		Driller	GM	Ground Level	51.64m AOD
Client	Liverpool City Council	Logged by	GM	Orientation	Vertical
		Core barrel	N/A	Date Started	20/04/2005
Consultant	William Saunders Partnership	Core bit	5.75	Date Completed	20/04/2005

Description of Strata	Legend	Drilled Length	Datum Level	Coring and Sampling	TCR	SCR	RQD	SPT N & depth	Installation
Tarmac. (Drillers description).		0.15	51.49						
Red hard SANDSTONE									
Rotary drilling complete at 6.30 m.		6.30	45.34						

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

Contract No.	F13931	Method	Rotary Openholing	Coordinates	1037.35 E
Project	Gateacre School	Drilling Rig	R41		834.80 N
		Driller	GM	Ground Level	50.89m AOD
Client	Liverpool City Council	Logged by	GM	Orientation	Vertical
		Core barrel	N/A	Date Started	20/04/2005
Consultant	William Saunders Partnership	Core bit	5.75	Date Completed	20/04/2005

PROGRESS						DRILLING DETAILS				
Date	Time	Hole depth	Casing depth	Water depth	Remarks	From depth	To depth	Flush type	Flush return	Core diameter
20/04/2005	1700	6.30	NR	DRY	End of Hole	1.20	6.30	Air	Full	0.00"

CASING				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				
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.	Depth	Type	Incremental blow count/penetration	Casing	Water Depth

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.

BH5

Sheet 1 of 1

Contract No.	F13931	Method	Rotary Openholing	Coordinates	1037.35 E
Project	Gateacre School	Drilling Rig	R41		834.80 N
		Driller	GM	Ground Level	50.89m AOD
Client	Liverpool City Council	Logged by	GM	Orientation	Vertical
		Core barrel	N/A	Date Started	20/04/2005
Consultant	William Saunders Partnership	Core bit	5.75	Date Completed	20/04/2005

Description of Strata	Legend	Drilled Length	Datum Level	Coring and Sampling	TCR	SCR	RQD	SPT N & depth	Installation
Pavement slab. (Drillers description).		0.10	50.79						
Weak red SANDSTONE. (Drillers description).									
Hard red SANDSTONE. (Drillers description).		5.00	45.89						
Rotary drilling complete at 6.30 m.		6.30	44.59						

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
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Revised 21/07/2005



Contract No.	F13931	Method	Rotary Openholing	Coordinates	1090.54 E
Project	Gateacre School	Drilling Rig	R41		757.08 N
		Driller	GM	Ground Level	51.05m AOD
Client	Liverpool City Council	Logged by	GM	Orientation	Vertical
		Core barrel	N/A	Date Started	20/04/2005
Consultant	William Saunders Partnership	Core bit	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 diameter
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					


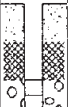


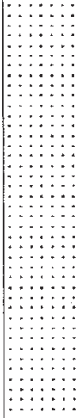
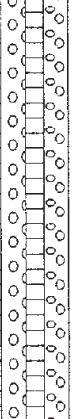
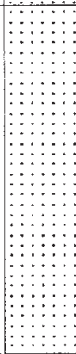
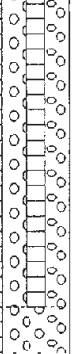
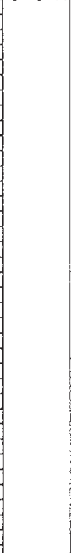
CASING				WATER STRIKES							
Hole diam.	Max depth of hole at dia.	Casing diameter	Max depth of casing of dia.	Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow
150	6.30										

GENERAL NOTES	SPT DETAILS				
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.	Depth	Type	Incremental blow count/penetration	Casing	Water Depth

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

Contract No.	F13931	Method	Rotary Openholing	Coordinates	1090.54 E
Project	Gateacre School	Drilling Rig	R41		757.08 N
		Driller	GM	Ground Level	51.05m AOD
Client	Liverpool City Council	Logged by	GM	Orientation	Vertical
		Core barrel	N/A	Date Started	20/04/2005
Consultant	William Saunders Partnership	Core bit	5.75	Date Completed	21/04/2005





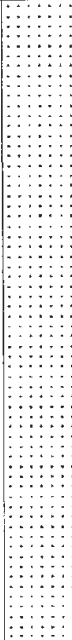

Description of Strata	Legend	Drilled Length	Datum Level	Coring and Sampling	TCR	SCR	RQD	SPT N & depth	Installation
Topsoil. (Drillers description).									
Sandy soft clay. (Drillers description).		0.70	50.35						
Weak red SANDSTONE. (Drillers description).		1.20	49.85						
Hard red SANDSTONE. (Drillers description).		4.00	47.05						
Rotary drilling complete at 6.30 m.		6.30	44.75						

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



Contract No.	F13931	Method	Rotary Openholing	Coordinates	1149.40 E
Project	Gateacre School	Drilling Rig	R41		725.04 N
		Driller	GM	Ground Level	50.54m AOD
		Logged by	GM	Orientation	Vertical
Client	Liverpool City Council	Core barrel	N/A	Date Started	21/04/2005
Consultant	William Saunders Partnership	Core bit	5.75	Date Completed	21/04/2005

Description of Strata	Legend	Drilled Length	Datum Level	Coring and Sampling	TCR	SCR	ROD	SPT N & depth	Installation
Topsoil. (Drillers description).		0.50	50.04						
Weak red SANDSTONE. (Drillers description).		2.00	48.54						
Hard red SANDSTONE. (Drillers description).		6.30	44.24						
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

Contract No.	F13931	Method	Rotary Openholing	Coordinates	1074.96 E
Project	Gateacre School	Drilling Rig	R41		923.99 N
		Driller	GM	Ground Level	48.09m AOD
Client	Liverpool City Council	Logged by	GM	Orientation	Vertical
		Core barrel	N/A	Date Started	21/04/2005
Consultant	William Saunders Partnership	Core bit	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 diameter
21/04/2005	1730	6.30	NR	DRY	End of Hole	1.20	6.30	Air	End of Hole	0.00"

CASING				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				
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.				Depth	Type	Incremental blow count/penetration	Casing	Water Depth

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

Contract No.	F13931	Method	Rotary Openholing	Coordinates	1074.96 E
Project	Gateacre School	Drilling Rig	R41		923.99 N
		Driller	GM	Ground Level	48.09m AOD
Client	Liverpool City Council	Logged by	GM	Orientation	Vertical
		Core barrel	N/A	Date Started	21/04/2005
Consultant	William Saunders Partnership	Core bit	5.75	Date Completed	21/04/2005

Description of Strata	Legend	Drilled Length	Datum Level	Coring and Sampling	TCR	SCR	ROD	SPT N & depth	Installation
Tarmac. (Drillers description).		0.10	47.99						
Hardcore. (Drillers description).		0.50	47.59						
Weak red SANDSTONE boulders, soft sandy clay. (Drillers description).		1.20	46.89						
Weak red SANDSTONE. (Driller's description)		2.00	46.09						
Hard red SANDSTONE. (Drillers description).		6.30	41.79						
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

Contract No.	F14826	Method	Window Sampling	Coordinates	-
Project	Gateacre School, Liverpool				
		Sampling Rig	Terrier	Ground Level	-
Client	Liverpool City Council	Driller	PB	Orientation	Vertical
		Logged by	PB	Date Started	23/04/2007
Consultant	Wm Saunders Partnership			Date Completed	23/04/2007




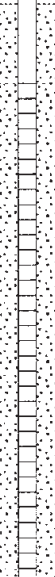


Description of Strata	Legend	Depth Below G.L.	Datum Level	Sample type and depth	Progress	Installation
TOPSOIL. (Driller's description)		0.50		ES1 1.00 - 1.20 ES2 1.00 - 1.20		
MADE GROUND: Black ash and brick fill. (Driller's description)						
SANDSTONE. (Driller's description) Sampling complete at 5.00 m.		4.90 5.00				

WATER STRIKES								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	1. Inspection pit hand excavated from GL to 1.20m. 2. 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.

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

Contract No.	F14826	Method	Window Sampling	Coordinates	-
Project	Gateacre School, Liverpool				-
		Sampling Rig	Terrier	Ground Level	-
Client	Liverpool City Council	Driller	PB	Orientation	Vertical
		Logged by	PB	Date Started	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	Installation
TOPSOIL. (Driller's description)						
MADE GROUND: Black ash brick fill. (Driller's description)		0.50		ES1 1.00 - 1.20 ES2 1.00 - 1.20		
SANDSTONE. (Driller's description)		4.30				
Sampling complete at 4.50 m.		4.50				

### WATER STRIKES

Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow

### GENERAL NOTES



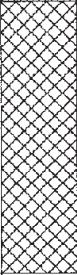
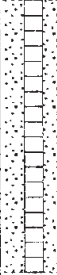


1. Inspection pit hand excavated from GL to 1.20m.
2. 50mm standpipe installed to 4.30m, slotted from 1.00m to 4.30m.

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

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



Contract No.	F14826	Method	Window Sampling	Coordinates	-
Project	Gateacre School, Liverpool				-
		Sampling Rig	Terrier	Ground Level	-
Client	Liverpool City Council	Driller	PB	Orientation	Vertical
		Logged by	PB	Date Started	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)		0.50				
MADE GROUND: Black ash and brick fill. (Driller's description)				ES1 1.00 - 1.20		
SANDSTONE. (Driller's description)		2.30				
Sampling complete at 2.50 m.		2.50				

### WATER STRIKES

Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow

### GENERAL NOTES

1. Inspection pit hand excavated from GL to 1.20m.
2. 50mm standpipe installed to 2.30m, slotted from 0.50m to 2.30m.







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

Form ARIAL WINDOW LOG

Version 3.06

Revised 07/04/2005

Contract No.	F14826	Method	Window Sampling	Coordinates	-
Project	Gateacre School, Liverpool				-
		Sampling Rig	Terrier	Ground Level	-
Client	Liverpool City Council	Driller	PB	Orientation	Vertical
		Logged by	PB	Date Started	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)		0.20				
SAND and GRAVEL. (Driller's description)						
SANDSTONE. (Driller's description)		1.00		ES1 1.00 - 1.20		
Sampling complete at 1.20 m.		1.20				

### WATER STRIKES

Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow

### GENERAL NOTES

1. Inspection pit hand excavated from GL to 1.20m.
2. 50mm standpipe installed to 1.20m, slotted from 0.40m to 1.20m.

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

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

Contract No.	F14826	Method	Window Sampling	Coordinates	-
Project	Gateacre School, Liverpool				-
Client	Liverpool City Council	Sampling Rig	Terrier	Ground Level	-
		Driller	PB	Orientation	Vertical
		Logged by	PB	Date Started	24/04/2007
Consultant	Wm Saunders Partnership			Date Completed	24/04/2007





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

WATER STRIKES								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	1. Inspection pit hand excavated from GL to 1.20m. 2. 50mm standpipe installed to 1.00m, slotted from GL to 1.00m.	

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

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

Contract No.	F14826	Method	Window Sampling	Coordinates	-
Project	Gateacre School, Liverpool				-
		Sampling Rig	Terrier	Ground Level	-
Client	Liverpool City Council	Driller	PB	Orientation	Vertical
		Logged by	PB	Date Started	24/04/2007
Consultant	Wm Saunders Partnership			Date Completed	24/04/2007


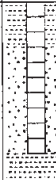
Description of Strata	Legend	Depth Below G.L.	Datum Level	Sample type and depth	Progress	Install- ation
TOPSOIL. (Driller's description)		0.20				
SAND and GRAVEL. (Driller's description)		1.00		ES1 1.00 - 1.20		
SANDSTONE. (Driller's description)		1.20				
Sampling complete at 1.20 m.						

WATER STRIKES								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	1. Inspection pit hand excavated from GL to 1.20m. 2. 50mm standpipe installed to 1.00m, slotted from GL to 1.00m.	

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

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

Contract No.	F14826	Method	Window Sampling	Coordinates	-
Project	Gateacre School, Liverpool				-
		Sampling Rig	Terrier	Ground Level	-
Client	Liverpool City Council	Driller	PB	Orientation	Vertical
		Logged by	PB	Date Started	24/04/2007
Consultant	Wm Saunders Partnership			Date Completed	24/04/2007

Description of Strata	Legend	Depth Below G.L.	Datum Level	Sample type and depth	Progress	Install- ation
TOPSOIL. (Driller's description)		0.20		ES1 1.00 - 1.20		
MADE GROUND: Soil ash fill. (Driller's description)		1.00				
SANDSTONE. (Driller's description)		1.20				
Sampling complete at 1.20 m.						

WATER STRIKES								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	1. Inspection pit hand excavated from GL to 1.20m. 2. 50mm standpipe installed to 1.00m, slotted from GL to 1.00m.	

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

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

Contract No.	F14826	Method	Window Sampling	Coordinates	-
Project	Gateacre School, Liverpool				-
		Sampling Rig	Terrier	Ground Level	-
Client	Liverpool City Council	Driller	PB	Orientation	Vertical
		Logged by	PB	Date Started	24/04/2007
Consultant	Wm Saunders Partnership			Date Completed	24/04/2007

Description of Strata	Legend	Depth Below G.L.	Datum Level	Sample type and depth	Progress	Install- ation
TOPSOIL. (Driller's description)						
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				
Sampling complete at 3.00 m.		3.00				

### WATER STRIKES

Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow

### GENERAL NOTES

1. Inspection pit hand excavated from GL to 1.20m.
2. 50mm standpipe installed to 2.90m, slotted from 1.00m to 2.90m.

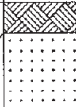
NOTES: All depths in metres, all diameters in millimetres,  
Water strike rise time in minutes. See legend sheet  
for key to symbols.

Form ARIAL WINDOW LOG

Version 3.06

Revised 07/04/2005

Contract No.	F13512	Method	Machine Excavated	Coordinates	-
Project	Gateacre School, Liverpool	Equipment	JCB 3CX	Ground Level	-
Client	Liverpool City Council	Logged by	SB	Date Started	30/07/2004
Consultant	WSP			Date Completed	30/07/2004

Description of Strata	Legend	Depth Below G.L.	Datum Level	Sampling	Remarks
<p>TOPSOIL dark orangish brown clayey sand with occasional cobbles (upto 200mm diameter) of sandstone.</p> <p>Very weak thinly bedded reddish brown coarse grained SANDSTONE. Recovered as thin tabular angular cobbles.</p> <p>— at 0.50m sandstone dips 20-280 deg</p> <p>Trial pit complete at 0.70 m.</p>		<p>0.20</p> <p>0.70</p>		<p>D1 0.00 - 0.20</p> <p>B2 0.00 - 0.20</p> <p>B3 0.20 - 0.70</p>	

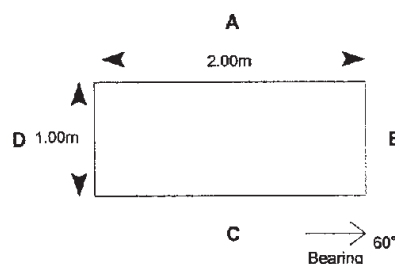
Stability Stable

Shoring None used

Groundwater None encountered

Remarks Rock too strong to progress beyond 0.70m.

Sketch Plan of Trial Pit



NOTES: All depths in metres, all soil strengths in kPa.  
See legend sheet for key to symbols and abbreviations.  
All bearings given relate to magnetic North

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

Contract No.	F13512	Method	Machine Excavated	Coordinates	-
Project	Gateacre School, Liverpool				-
		Equipment	JCB 3CX	Ground Level	-
Client	Liverpool City Council			Date Started	30/07/2004
		Logged by	SB	Date Completed	30/07/2004
Consultant	WSP				

Description of Strata	Legend	Depth Below G.L.	Datum Level	Sampling	Remarks
TOPSOIL dark orangish brown clayey sand with frequent cobbles (upto 150mm) of red sandstone.		0.30		D1 0.00 - 0.30 B2 0.00 - 0.30 D3 0.30 - 1.30 B4 0.30 - 1.30	
Orange slightly gravelly angular medium to coarse SAND. Gravel is subrounded fine to coarse of sandstone.		1.30		D5 1.30 - 1.80 B6 1.30 - 1.80	
—at 1.13m becoming very dense and gravelly		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					
Trial pit complete at 1.80 m.					

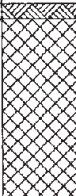
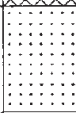
Stability	Stable	<b>Sketch Plan of Trial Pit</b> 
Shoring	None used	
Groundwater	None encountered	
Remarks	At 1.80m insufficiently weak to proceed	

NOTES: All depths in metres, all soil strengths in kPa.  
See legend sheet for key to symbols and abbreviations.  
All bearings given relate to magnetic North

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



Contract No.	F13512	Method	Machine Excavated	Coordinates	-
Project	Gateacre School, Liverpool	Equipment	JCB 3CX	Ground Level	-
Client	Liverpool City Council	Logged by	SB	Date Started	30/07/2004
Consultant	WSP			Date Completed	30/07/2004

Description of Strata	Legend	Depth Below G.L.	Datum Level	Sampling	Remarks
<b>TOPSOIL.</b>  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  2.00		D3 B4 1.30 - 2.00 1.30 - 2.00	

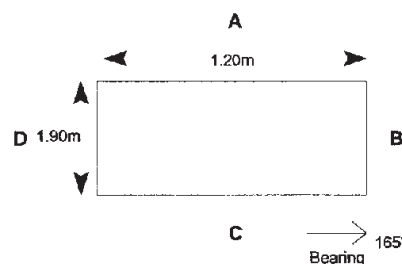
Stability      Slight spalling from face C

Shoring          None used

Groundwater    None encountered

Remarks



Sketch Plan of Trial Pit



NOTES: All depths in metres, all soil strengths in kPa.  
See legend sheet for key to symbols and abbreviations.  
All bearings given relate to magnetic North

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

Contract No.	F13512	Method	Machine Excavated	Coordinates	-
Project	Gateacre School, Liverpool	Equipment	JCB 3CX	Ground Level	-
Client	Liverpool City Council	Logged by	SB	Date Started	30/07/2004
Consultant	WSP			Date Completed	30/07/2004

Description of Strata	Legend	Depth Below G.L.	Datum Level	Sampling	Remarks
MADE GROUND: Dark brown slightly clayey fine to coarse sand with angular coarse cobble sized fragments of sandstone.				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.		1.00		D3 D4 1.00 - 2.00 1.00 - 2.00	
Trial pit complete at 2.00 m.		2.00			

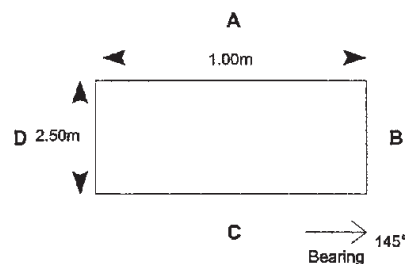
Stability      Unstable below 2.00m

Shoring      None used

Groundwater      None encountered

Remarks

Sketch Plan of Trial Pit



NOTES: All depths in metres, all soil strengths in kPa.  
See legend sheet for key to symbols and abbreviations.  
All bearings given relate to magnetic North

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