

Site Investigation for land at
Trough Laithe Farm, Barrowford Road, Lancashire

Appendix 8

Trial Pit Logs (Capita Symonds)

Capita Symonds

Trial Pit No's.: TP1, TP2, TP4, TP11, TP14 to TP20

Excavated: 14 and 18 October 2005

CAPITA SYMONDS

Prospect House
20 Mellor Road
Cheadle Hulme
Cheshire SK8 5AU
Tel : 0161 485 1521
Fax : 0161 486 1580

Project : Barrowford Road, Nelson Lancashire

Job Number : M23701

Client : Peel Developments (UK) Ltd

E Coord: 1331 08

N Coord: 418 14

G L 127 50 (m) ASD

Trial Pit Number

TP 01

Sheet 1 of 1

Logged By : DL

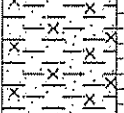
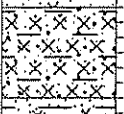
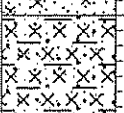
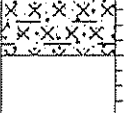
Scale : 1:50

Date : 14/10/2005

Plant : Rubber tyred excavator (JCB 3CX)

Checked By :

SAMPLING DATA

Depth (m)	Type	Test Results / Remarks	Legend	Level (m) ASD	Description	Depth (m)	Water
0 20	D1			0 30	Dark brown slightly humic slightly sandy CLAY (TOPSOIL)	0 30	
1 00 1 00	D2 B3			1 20	Firm orange-brown and green-brown mottled slightly gravelly sandy CLAY with occasional sub angular to rounded fine to coarse gravel (FLUVIO-GLACIAL DEPOSITS)	1 20	
2 00 2 10	D4 B5			1 80	Firm becoming soft blue-grey slightly organic slightly sandy SILT with a little clay and occasional rounded fine to coarse gravel and cobbles (FLUVIO-GLACIAL DEPOSITS)	1 80	
				2 00	Poorly compacted blue-grey silty fine to coarse SAND with some rounded fine to coarse gravel (FLUVIO-GLACIAL DEPOSITS)	2 00	
				3 00	Soft blue-grey slightly organic slightly sandy SILT with a little clay and occasional rounded fine to coarse gravel and cobbles (FLUVIO-GLACIAL DEPOSITS)	3 00	
					End of Trial Pit at 3 00 m		

SAMPLE/TEST KEY

B - Bulk Sample
D - Small Disturbed Sample
ES - Environmental Sample
V - Vane Test Result
Water Strike
Water Level

Comments :

Cast iron drain encountered at 0 70 ..

Groundwater Remarks

Seepage at 1 80m

Stability : Unstable below 2.50m

CAPITA SYMONDS

Prospect House
20 Mellor Road
Cheadle Hulme Tel : 0161 486 1521
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Project : Barrowford Road, Nelson Lancashire

Trial Pit Number

TP 02

Job Number : M23701

Client : Peel Developments (UK) Ltd

Sheet 1 of 1

E Coord: 1367 08

N Coord: 460 14

G L 124 75 (m) ASD

Logged By : DL

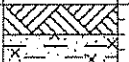
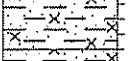
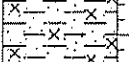
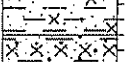
Scale : 1:50

Date : 14/10/2005

Plant : Rubber tyred excavator (JCB 3CX)

Checked By :

SAMPLING DATA

Depth (m)	Type	Test Results / Remarks	Legend	Level (m) ASD	Description	Depth (m)	Water
0 30	D1			0 20	Dark brown slightly humic slightly sandy CLAY (TOPSOIL)	0 20	
0 90	D2			0 70	Firm orange-brown and green-brown slightly sandy CLAY with occasional sub rounded to rounded fine to coarse gravel (FLUVIO-GLACIAL DEPOSITS)	0 70	
1 00	B3			1 40	Firm brown-grey, green-grey and orange-brown mottled slightly sandy CLAY (FLUVIO-GLACIAL DEPOSITS)	1 40	
1 50	D4			1 60	Firm grey-green and blue-grey mottled slightly sandy clayey SILT with occasional partings of fine sand and partly decomposed rootlets (FLUVIO-GLACIAL DEPOSITS)	1 60	
				3 10	Firm becoming soft blue-grey and dark grey slightly organic slightly sandy SILT with a little clay and occasional sub rounded cobbles of sandstone and partly decomposed rootlets (FLUVIO-GLACIAL DEPOSITS)	3 10	
					End of Trial Pit at 3 10 m		

SAMPLE/TEST KEY

 Bulk Sample
 Small Disturbed Sample
 Environmental Sample
 Vane Test Result
 Water Strike
 Water Level

Comments :

Groundwater Remarks

Seepage at 1 60m

Stability : Stable

CAPITA SYMONDS

Prospect House
20 Mellor Road
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Project : Barrowford Road, Nelson Lancashire

Trial Pit Number

TP 04

Job Number : M23701

Client : Peel Developments (UK) Ltd

Sheet 1 of 1

E Coord: 1389 08

N Coord: 532 14

G L 122 90 (m) ASD

Logged By : DL

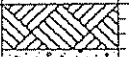
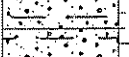
Scale : 1:50

Date : 14/10/2005

Plant : Rubber tyred excavator (JCB 3CX)

Checked By :

SAMPLING DATA

Depth (m)	Type	Test Results / Remarks	Legend	Level (m) ASD	Description	Depth (m)	Water
0 40	D1			0 30	Dark brown slightly humic slightly sandy CLAY (TOPSOIL)	0 30	
1 00	D2			0 90	Poorly compact orange-brown, brown and green-brown mottled slightly gravelly clayey fine to coarse SAND (FLUVIO-GLACIAL DEPOSITS)	0 90	
1 00	B3			1 40	Poorly compact grey slightly organic clayey silty fine to coarse SAND with some sub angular to rounded fine to coarse gravel and occasional pockets of silt and partly decomposed rootlets (GLACIAL DEPOSITS)	1 40	
2 00	D4				Firm becoming soft, locally laminated grey slightly clayey SILT with some lenses of sandy silt (FLUVIO-GLACIAL DEPOSITS)		
				3 40	End of Trial Pit at 3 40 m	3 40	

SAMPLE/TEST KEY

B - Bulk Sample W - Water Sample
D - Small Disturbed Sample
ES - Environmental Sample
V - Vane Test Result

 Water Strike  Water Level

Comments :

Groundwater Remarks

Seepage at 1 40m

Stability : Stable

CAPITA SYMONDS

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Project : Barrowford Road, Nelson Lancashire

Job Number : M23701

Client : Peel Developments (UK) Ltd

E Coord: 1455 08

N Coord: 603 14

G L 116 90 (m) ASD

Trial Pit Number

TP 11

Sheet 1 of 1

Logged By : DL

Scale : 1:50

Date : 18/10/2005

Plant : Rubber tyred excavator (JCB 3CX)

Checked By :

SAMPLING DATA

Depth (m)	Type	Test Results / Remarks	Legend	Level (m) ASD	Description	Depth (m)	Water
0 50	B1			0 35	Dark brown slightly humic slightly sandy CLAY (TOPSOIL)	0 35	
1 20	D2			1 10	Firm orange-brown, green-brown and blue-grey mottled sandy CLAY with occasional sub angular to rounded fine to coarse gravel (FLUVIO-GLACIAL DEPOSITS)	1 10	
1 30	(V)	30kPa		1 40	Soft blue-grey sandy SILT (FLUVIO-GLACIAL DEPOSITS)	1 40	
2 50	B3				Thinly interbedded, poorly compact blue-grey gravelly fine to coarse SAND and soft blue-grey sandy CLAY (FLUVIO-GLACIAL DEPOSITS)		
3 10	(V)	35kPa		3 00	Soft brown slightly sandy CLAY with occasional sub angular to rounded fine to coarse gravel (GLACIAL TILL)	3 00	
3 20	B4			3 30	End of Trial Pit at 3 30 m	3 30	

SAMPLE/TEST KEY

B - Bulk Sample
D - Small Disturbed Sample
ES - Environmental Sample
V - Vane Test Result

Water Strike
Water Level

Comments :

(V) refers to hand held shear vane results (kN/m2),

Stability : Stable

Groundwater Remarks

Not Encountered

CAPITA SYMONDS

Prospect House
20 Mellor Road
Cheadle Hulme Tel : 0161 486 1521
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Project : Barrowford Road. Nelson Lancashire

Job Number : M23701

Client : Peel Developments (UK) Ltd

E Coord: 1530 08

N Coord: 617 14

G L 113 80 (m) ASD

Trial Pit Number

TP 14

Sheet 1 of 1

Logged By : DL

Scale : 1:50

Date : 18/10/2005

Plant : Rubber tyred excavator (JCB 3CX)

Checked By :

SAMPLING DATA

Depth (m)	Type	Test Results / Remarks	Legend	Level (m) ASD	Description	Depth (m)	Water
0 50	D1	75kPa		0 30	Dark brown slightly humic slightly sandy CLAY (TOPSOIL)	0 30	
					Firm orange-brown, green-brown and blue-grey mottled sandy CLAY with occasional sub angular to rounded fine to coarse gravel (FLUVIO-GLACIAL DEPOSITS)		
1 50	B2			1 20	Poorly compact blue-grey clayey very sandy sub angular to rounded fine to coarse GRAVEL with some becoming many lenses of clayey silt and occasional cobbles / boulders (FLUVIO-GLACIAL DEPOSITS)	1 20	
				2 00	Soft blue-grey sandy SILT with some sub angular to rounded fine to coarse gravel (FLUVIO-GLACIAL DEPOSITS)	2 00	
2 50	(V)			2 40	Firm to stiff becoming stiff greyish brown slightly sandy CLAY with a little sub angular to rounded fine to coarse gravel and cobbles (GLACIAL TILL)	2 40	
2 50	D3			3 40	End of Trial Pit at 3 40 m	3 40	

SAMPLE/TEST KEY

B - Bulk Sample
D - Small Disturbed Sample
ES - Environmental Sample
V - Vane Test Result

Water Strike
 Water Level

Comments :

(V) refers to hand held shear vane results (kN/m2).

Stability : Slight spawling below 1.20m

Groundwater Remarks

Seepages below 1 20m

CAPITA SYMONDS

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Job Number : M23701

Client : Peel Developments (UK) Ltd

E Coord: 1533 08

N Coord: 670 14

G L 114 40 (m) ASD

Trial Pit Number

TP 15

Sheet 1 of 1

Logged By : DL

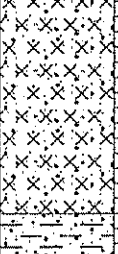
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Date : 18/10/2005

Plant : Rubber tyred excavator (JCB 3CX)

Checked By :

SAMPLING DATA

Depth (m)	Type	Test Results / Remarks	Legend	Level (m) ASD	Description	Depth (m)	Water
0 20	D1	40kPa		0 30	Dark brown slightly humic slightly sandy CLAY (TOPSOIL)	0 30	
0 50	(V)				Firm light brown-grey and orange-brown mottled sandy CLAY with occasional lenses of sandy silt (FLUVIO-GLACIAL DEPOSITS)		
0 50	B2						
1 15	D3			1 10 1 20	Soft dark brown-black slightly gravelly sandy amorphous PEAT with a little clay (FLUVIO-FLUVIO-GLACIAL DEPOSITS)	1 10 1 20	
2 00	B4				Soft brown-grey and blue-grey slightly sandy SILT with a little sub angular to rounded fine to coarse gravel and occasional lenses of silty clay (FLUVIO-GLACIAL DEPOSITS)		
							
				3 30	Firm blue-grey slightly sandy gravelly CLAY (FLUVIO-GLACIAL DEPOSITS)	3 30	
				3 60	End of Trial Pit at 3 60 m	3 60	

SAMPLE/TEST KEY

B - Bulk Sample
D - Small Disturbed Sample
ES - Environmental Sample
V - Vane Test Result

 Water Strike
 Water Level

Comments :

(V) refers to hand held shear vane results (kN/m2).

Stability : Unstable below 1.50m

Groundwater Remarks

Seepage at 1 30m

CAPITA SYMONDS

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Project : Barrowford Road, Nelson Lancashire

Trial Pit Number

TP 16

Job Number : M23701

Client : Peel Developments (UK) Ltd

Sheet 1 of 1

E Coord: 1521 08

N Coord: 758 14

G L 125 50 (m) ASD

Logged By : DL

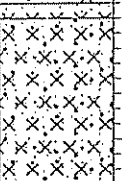
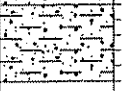
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Date : 18/10/2005

Plant : Rubber tyred excavator (JCB 3CX)

Checked By :

SAMPLING DATA

Depth (m)	Type	Test Results / Remarks	Legend	Level (m) ASD	Description	Depth (m)	Water
0 20	D1			0 30	Dark brown slightly humic slightly sandy CLAY (TOPSOIL)	0 30	
					Stiff orange-brown, green-grey and blue-grey mottled sandy CLAY (FLUVIO-GLACIAL DEPOSITS)		
1 30	B2			1 10 1 20	Poorly compact blue-grey slightly clayey sandy sub angular to rounded fine to coarse GRAVEL with some lenses of gravelly sand (FLUVIO-GLACIAL DEPOSITS)	1 10 1 20	
				2 30	Firm-stiff becoming stiff blue-grey sandy gravelly CLAY (GLACIAL TILL)	2 30	
2 50	B3			2 80	Moderately compact green-grey gravelly fine and medium SAND with some sub angular to rounded fine to coarse gravel, cobble and locally boulder <400mm (GLACIAL TILL)	2 80	
					End of Trial Pit at 2 80 m		

SAMPLE/TEST KEY

B - Bulk Sample
D - Small Disturbed Sample
ES - Environmental Sample
V - Vane Test Result

 Water Strike
 Water Level

Comments :

Stability : Stable

Groundwater Remarks

Seepage at 1 20m

CAPITA SYMONDS

Prospect House
20 Mellor Road
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Project : Barrowford Road, Nelson Lancashire

Trial Pit Number

TP 17

Job Number : M23701

Client : Peel Developments (UK) Ltd

Sheet 1 of 1

E Coord: 1536 08

N Coord: 722 14

G L. 119 20 (m) ASD

Logged By : DL

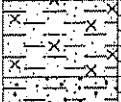
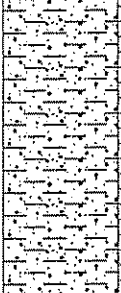
Scale : 1:50

Date : 18/10/2005

Plant : Rubber tyred excavator (JCB 3CX)

Checked By :

SAMPLING DATA

Depth (m)	Type	Test Results / Remarks	Legend	Level (m) ASD	Description	Depth (m)	Water
0 50	B1			0 30	Dark brown slightly humic slightly sandy CLAY (TOPSOIL)	0 30	
				0 80	Firm orange-brown, green-grey and blue-grey mottled sandy CLAY with occasional sub angular to rounded fine to coarse gravel (FLUVIO-GLACIAL DEPOSITS)	0 80	
2 00	B2			2 90	Firm-stiff becoming stiff blue-grey and brown mottled slightly sandy gravelly CLAY with occasional lenses of green-grey sandy gravel and rare boulders <500mm (GLACIAL TILL)	2 90	
					End of Trial Pit at 2 90 m		

SAMPLE/TEST KEY

B - Bulk Sample
D - Small Disturbed Sample
ES - Environmental Sample
V - Vane Test Result

Water Strike
Water Level

Comments :

Stability : Stable

Groundwater Remarks

Not Encountered

CAPITA SYMONDS

Prospect House
20 Mellor Road
Cheadle Hulme Tel : 0161 486 1521
Cheshire SK8 5AU Fax : 0161 486 1580

Project : Barrowford Road, Nelson Lancashire

Job Number : M23701

Client : Peel Developments (UK) Ltd

E Coord: 1581 08

N Coord: 726 14

G L 116 00 (m) ASD

Trial Pit Number

TP 18

Sheet 1 of 1

Logged By : DL

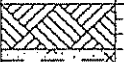
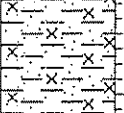
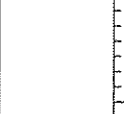
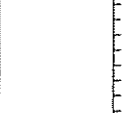
Scale : 1:50

Date : 18/10/2005

Plant : Rubber tyred excavator (JCB 3CX)

Checked By :

SAMPLING DATA

Depth (m)	Type	Test Results / Remarks	Legend	Level (m) ASD	Description	Depth (m)	Water
0 50	B1			0 30	Dark brown slightly humic slightly sandy CLAY (TOPSOIL)	0 30	
					Firm orange-brown, green-grey and blue-grey mottled sandy CLAY with occasional lenses of sandy silt (FLUVIO-GLACIAL DEPOSITS)		
1 50	(V)	30kPa		1 20	Soft, locally very soft, blue-grey slightly sandy CLAY with a little sub angular to rounded fine to coarse gravel and occasional lenses of sandy silt (FLUVIO-GLACIAL DEPOSITS)	1 20	
2 00	(V)	20kPa					
2 00	B2						
2 50	(V)	25kPa					
3 00	(V)	35kPa		3 00	End of Trial Pit at 3 00 m	3 00	

SAMPLE/TEST KEY

B - Bulk Sample W - Water Sample
D - Small Disturbed Sample
ES - Environmental Sample
V - Vane Test Result

 Water Strike  Water Level

Comments :

Drain at 0 70m . (V) refers to hand held shear vane results (kN/m2).

Stability : Stable

Groundwater Remarks

Moderate inflow at 0 70m

CAPITA SYMONDS

Prospect House
20 Mellor Road
Cheadle Hulme
Cheshire SK8 5AU
Tel : 0161 486 1521
Fax : 0161 486 1580

Project : Barrowford Road, Nelson Lancashire

Job Number : M23701

Client : Peel Developments (UK) Ltd

E Coord: 1593 08

N Coord: 778 14

G L 122 20 (m) ASD

Trial Pit Number

TP 19

Sheet 1 of 1

Logged By : DL

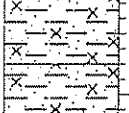
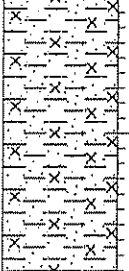
Scale : 1:50

Date : 18/10/2005

Plant : Rubber tyred excavator (JCB 3CX)

Checked By :

SAMPLING DATA

Depth (m)	Type	Test Results / Remarks	Legend	Level (m) ASD	Description	Depth (m)	Water
0 50	D1			0 30	Dark brown slightly humic slightly sandy CLAY (TOPSOIL)	0 30	
				0 80	Firm orange-brown, green-grey and blue-grey mottled sandy CLAY with occasional sub angular to rounded fine to coarse gravel (FLUVIO-GLACIAL DEPOSITS)	0 80	
1 50	B2				Firm becoming firm-stiff blue-grey slightly sandy gravelly CLAY with occasional cobbles and boulders <400mm (GLACIAL TILL)		
2 50	D3			2 90	End of Trial Pit at 2 90 m	2 90	

SAMPLE/TEST KEY
B - Bulk Sample
D - Small Disturbed Sample
ES - Environmental Sample
V - Vane Test Result
W - Water Sample

 Water Strike
 Water Level

Comments :

Stability : Stable

Groundwater Remarks

Not Encountered

CAPITA SYMONDS

Prospect House
20 Mellor Road
Cheadle Hulme Tel : 0161 486 1521
Cheshire SK8 5AU Fax : 0161 486 1580

Project : Barrowford Road, Nelson Lancashire

Job Number : M23701

Client : Peel Developments (UK) Ltd

E Coord: 1623 08

N Coord: 751 14

G L 115 30 (m) ASD

Trial Pit Number

TP 20

Sheet 1 of 1

Logged By : DL

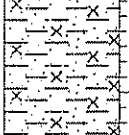
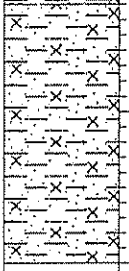
Scale : 1:50

Date : 18/10/2005

Plant : Rubber tyred excavator (JCB 3CX)

Checked By :

SAMPLING DATA

Depth (m)	Type	Test Results / Remarks	Legend	Level (m) ASD	Description	Depth (m)	Water
0 20	D1			0 30	Dark brown slightly humic slightly sandy CLAY (TOPSOIL)	0 30	
					Firm desiccated light orange-brown, green-grey and blue-grey mottled sandy CLAY with occasional sub angular to rounded fine to coarse gravel (FLUVIO-GLACIAL DEPOSITS)		
1 50	B2			1 30	Firm becoming firm-stiff blue-grey slightly sandy gravelly CLAY with occasional cobbles and boulders <500mm. Below 2 20m greyish-brown with occasional lenses of clayey silt and decomposed rootlets (GLACIAL TILL)	1 30	
2 50	D3			3 00	End of Trial Pit at 3 00 m	3 00	

SAMPLE/TEST KEY
B - Bulk Sample W - Water Sample
D - Small Disturbed Sample
ES - Environmental Sample
V - Vane Test Result
Water Strike
Water Level

Comments :

Groundwater Remarks

Not Encountered

Stability : Stable