

APPENDIX G



ROBERT E. FRY & ASSOCIATES LTD.
45 Bridgeman Terrace,
Wigan, WN1 1TT

Site
 Liverpool Road, Hutton

Trial Pit
 Number
TP01

Excavation Method Trial Pit	Dimensions	Ground Level (mOD)	Client Lancashire County Council	Job Number 24182
	Location	Dates 08/01/2025	Engineer	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.20	D ES				0.40	Soft becoming firm slightly gravelly CLAY. Gravel is subangular to subrounded fine to medium of sandstone (Topsoil)		
0.20					0.20	Firm dark brown slightly gravelly CLAY. Gravel is subangular to subrounded fine to medium of sandstone and mudstone		
1.10	HV 70kPa				(1.20)	Stiff orangish brown mottled grey slightly gravelly CLAY with occasional pockets of brown fine to medium sand and low cobble content. Gravel is subangular to rounded fine to coarse of sandstone and mudstone. Cobbles are subrounded sandstone.		
1.40	HV 92kPa					...Becoming friable at 1.30m		
1.50	D				1.80	Complete at 1.80m		
1.70	HV 96kPa							



Remarks
 Land drain at 0.50m. Vertical and stable. No groundwater encountered

Scale (approx) 1:50	Logged By RM	Figure No. 24182.TP01
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ROBERT E. FRY & ASSOCIATES LTD.
45 Bridgeman Terrace,
Wigan, WN1 1TT

Site
 Liverpool Road, Hutton

Trial Pit
 Number
TP02

Excavation Method Trial Pit	Dimensions	Ground Level (mOD)	Client Lancashire County Council	Job Number 24182
	Location	Dates 08/01/2025	Engineer	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.15	D				(0.40)	Soft becoming firm dark grey slightly gravelly CLAY with occasional rootlets. Gravel is subangular to rounded fine to medium of sandstone (topsoil)		
1.00	HV 72kPa				0.40	Firm orangish brown mottled grey slightly gravelly CLAY with low cobble content. Gravel is subangular to subrounded fine to coarse of sandstone and mudstone. Cobbles are subrounded of sandstone		
1.20	HV 90kPa				(0.25) 0.65			
1.80	HV 102kPa				(1.45)	Firm to stiff dark brown mottled grey slightly gravelly CLAY with occasional yellowish brown fine to medium sand pockets and low cobble content. Gravel is subangular to subrounded fine to coarse of sandstone. Cobbles are subrounded to subangular of sandstone ...Becoming friable at 1.10m		
2.00	HV 98kPa				2.10	Complete at 2.10m		
2.10	D							



Remarks
 Vertical and stable. No groundwater encountered

Scale (approx) 1:50	Logged By RM	Figure No. 24182.TP02
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ROBERT E. FRY & ASSOCIATES LTD.
45 Bridgeman Terrace,
Wigan, WN1 1TT

Site
 Liverpool Road, Hutton

Trial Pit
 Number
TP03

Excavation Method Trial Pit	Dimensions	Ground Level (mOD)	Client Lancashire County Council	Job Number 24182
	Location	Dates 08/01/2025	Engineer	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.25	D				(0.40)	Dark grey slightly gravelly silty CLAY. Gravel is subangular to rounded fine of sandstone (topsoil)		
0.25	ES				0.40			
0.70	HV 90kPa				(0.30)	Firm orangish brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is subangular to rounded fine to coarse of sandstone and mudstone.		
			78,82/Av. 80.00		0.70			
1.20	HV 80kPa				(1.75)	Stiff dark brown slightly gravelly silty CLAY with occasional pockets of green silt and medium to coarse orange sand with low cobble content. Gravel is angular to subrounded fine to coarse of sandstone and mudstone. Cobbles are subrounded of mudstone		
1.70	HV 92kPa							
2.40	HV 102kPa				2.45	Complete at 2.45m		
2.40	D							



Remarks
 Vertical and stable. No groundwater encountered

Scale (approx) 1:50	Logged By RM	Figure No. 24182.TP03
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ROBERT E. FRY & ASSOCIATES LTD.
45 Bridgeman Terrace,
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Site
 Liverpool Road, Hutton

Trial Pit
 Number
TP04

Excavation Method Trial Pit	Dimensions	Ground Level (mOD)	Client Lancashire County Council	Job Number 24182
	Location	Dates 08/01/2025	Engineer	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.30	D				(0.50)	Soft becoming firm dark grey slightly gravelly silty CLAY with occasional rootlets. Gravel is subangular to subrounded fine to medium of sandstone (topsoil)		
0.60	HV 80kPa				0.50 (0.20) 0.70	Firm orangish brown mottled grey slightly sandy slightly gravelly CLAY with occasional orange medium to coarse sand pockets.		
1.20	HV 100kPa				(1.80)	Very stiff dark brown mottled light grey slightly gravelly CLAY with low cobble content and occasional pockets of green grey fine to coarse sand. Gravel is angular to subrounded fine to coarse of sandstone and mudstone. Cobbles are subrounded of sandstone and mudstone		
1.70	D							
2.40	HV 96kPa				2.50	Complete at 2.50m		



Remarks
 Vertical and stable. No groundwater encountered

Scale (approx) 1:50	Logged By RM	Figure No. 24182.TP04
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ROBERT E. FRY & ASSOCIATES LTD.
45 Bridgeman Terrace,
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 Liverpool Road, Hutton

Trial Pit
 Number
TP05

Excavation Method Trial Pit	Dimensions	Ground Level (mOD)	Client Lancashire County Council	Job Number 24182
	Location	Dates 08/01/2025	Engineer	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.20	D		Land drain (1) at 0.80m.		(0.45)	Dark grey slightly gravelly silty CLAY. Gravel is subangular to subrounded fine to medium of mudstone (topsoil)		
1.00	HV 88kPa				0.45 (0.25) 0.70	Soft becoming firm orangish brown mottled grey slightly sandy slightly gravelly CLAY with low cobble content. Gravel is subangular to rounded fine to coarse sandstone. Cobbles are subrounded of sandstone		√1
1.70	HV 90kPa				(1.40)	Stiff dark brown mottled grey slightly gravelly CLAY with occasional grey fine to coarse sand pockets. Gravel is subangular to subrounded fine to coarse of sandstone and mudstone		
2.00	HV 92kPa				2.10			
2.00	D					Complete at 2.10m		



Remarks
 Land drain at 0.80m water ingress associated. Vertical and stable

Scale (approx) 1:50	Logged By RM	Figure No. 24182.TP05
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ROBERT E. FRY & ASSOCIATES LTD.
45 Bridgeman Terrace,
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Site
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Trial Pit
 Number
TP06

Excavation Method Trial Pit	Dimensions	Ground Level (mOD)	Client Lancashire County Council	Job Number 24182
	Location	Dates 08/01/2025	Engineer	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.20	D				0.40	Firm dark grey slightly gravelly silty CLAY. Gravel is aubangular to rounded fine of sandstone (topsoil)		
0.20	ES				0.40 (0.20) 0.60	Firm orangish brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is subangular to rounded fine to coarse of sandstone and mudstone.		
1.10	HV 90kPa				(2.00)	Stiff dark brown mottled grey slightly gravelly silty CLAY with occasional pockets of green silt and low cobble content. Gravel is subangular fine to coarse of sandstone and mudstone. Cobbles are subrounded of sandstone		
1.70	HV 94kPa							
2.50	HV 98kPa				2.60	Complete at 2.60m		
2.50	D							



Remarks
 Land drain at 0.50m. Vertical and stable. No groundwater encountered

Scale (approx) 1:50	Logged By RM	Figure No. 24182.TP06
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ROBERT E. FRY & ASSOCIATES LTD.
45 Bridgeman Terrace,
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Site
 Liverpool Road, Hutton

Trial Pit
 Number
TP07

Excavation Method Trial Pit	Dimensions	Ground Level (mOD)	Client Lancashire County Council	Job Number 24182
	Location	Dates 08/01/2025	Engineer	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.10 0.10	D ES				(0.35) 0.35	Firm dark grey slightly gravelly CLAY with occasional rootlets. Gravel is subangular to subrounded fine to coarse of sandstone and mudstone (topsoil)		
0.90	HV 94kPa				(0.30) 0.65	Firm orangish brown mottled light grey slightly gravelly silty CLAY. Gravel is subangular to subrounded fine to coarse of sandstone and mudstone		
1.60 1.60	HV 108kPa D				(1.55)	Stiff dark brown mottled grey slightly gravelly silty CLAY with occasional yellowish green silt pockets and low cobble content. Gravel is angular to subrounded fine to coarse of sandstone and mudstone ...Very stiff and friable from 1.20m ...Occasional brown fine to medium sand pockets from 1.50m		
2.00	HV 98kPa				2.20	Complete at 2.20m		



Remarks
 Vertical and stable. No groundwater encountered.

Scale (approx) 1:50	Logged By RM	Figure No. 24182.TP07
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ROBERT E. FRY & ASSOCIATES LTD.
45 Bridgeman Terrace,
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Trial Pit
 Number
TP08

Excavation Method Trial Pit	Dimensions	Ground Level (mOD)	Client Lancashire County Council	Job Number 24182
	Location	Dates 08/01/2025	Engineer	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.15	D		Land drain (1) at 0.50m.		(0.30) 0.30 (0.20) 0.50	Firm dark grey slightly sandy slightly gravelly CLAY with occasional rootlets. Gravel is angular to subrounded fine to medium sandstone (topsoil)		∇1
1.00	HV 84kPa				(1.75)	Firm orangish brown slightly sandy slightly gravelly CLAY with medium cobble content. Gravel is angular to rounded fine to coarse of sandstone and mudstone.		
1.70	HV 94kPa					Stiff dark brown mottled grey slightly gravelly CLAY with medium cobble content and occasional pockets of greenish grey silty and low boulder content and occasional orange medium to coarse sand pockets. Gravel is angular to subrounded fine to coarse sandstone and mudstone. Cobbles are subrounded sandstone		
2.20	HV 110kPa				2.25	Complete at 2.25m		



Remarks
 Land drain at 0.50m, water ingress associated. Vertical and stable

Scale (approx) 1:50	Logged By RM	Figure No. 24182.TP08
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ROBERT E. FRY & ASSOCIATES LTD.
45 Bridgeman Terrace,
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Site
 Liverpool Road, Hutton

Trial Pit
 Number
TP09

Excavation Method Trial Pit	Dimensions	Ground Level (mOD)	Client Lancashire County Council	Job Number 24182
	Location	Dates 08/01/2025	Engineer	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.15 0.15	D ES				(0.45) 0.45	Firm dark brown slightly gravelly CLAY with occasional rootlets (topsoil). Gravel is subangular to rounded fine to medium of sandstone, mudstone and quartzite (topsoil)		
0.60 0.90	D HV 80kPa				(0.45) 0.90	Firm light brown mottled grey slightly gravelly CLAY with occasional pockets of orange fine to coarse sand. Gravel is subangular to subrounded fine to coarse of sandstone and mudstone		
1.80	HV 90kPa				(1.70)	Stiff dark brown mottled light grey slightly sandy slightly gravelly CLAY with occasional yellowish green silt pockets and low cobble content. Gravel is subangular to rounded fine to coarse of sandstone and mudstone. Cobbles are subrounded of sandstone and mudstone		
2.50	HV 99kPa	98,100/Av. 99.00			2.60	Complete at 2.60m		



Remarks
 Vertical and stable. No groundwater encountered

Scale (approx) 1:50	Logged By RM	Figure No. 24182.TP09
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ROBERT E. FRY & ASSOCIATES LTD.
45 Bridgeman Terrace,
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Trial Pit
 Number
TP11

Excavation Method Trial Pit	Dimensions	Ground Level (mOD)	Client Lancashire County Council	Job Number 24182
	Location	Dates 08/01/2025	Engineer	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.30	D				(0.40)	Firm dark grey slightly gravelly CLAY with occasional rootlets. Gravel is subangular to subrounded fine to coarse of sandstone and mudstone (topsoil)		
0.30	ES				0.40			
0.85	HV 90kPa				(0.30)	Firm brown mottled orange and grey slightly sandy slightly gravelly CLAY with low cobble content. Gravel is angular to subrounded fine to coarse of sandstone and mudstone. Cobbles are subangular to rounded of sandstone		
1.20	HV 118kPa				0.70			
2.00	HV 114kPa				(1.40)	Stiff dark brown mottled grey slightly gravelly silty CLAY with occasional pockets of yellowish green silt and brown fine sand pockets. Gravel is angular to subrounded fine to coarse of sandstone and mudstone		
2.10	D				2.10	Complete at 2.10m		



Remarks
 Vertical and stable. No groundwater encountered

Scale (approx) 1:50	Logged By RM	Figure No. 24182.TP11
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ROBERT E. FRY & ASSOCIATES LTD.
45 Bridgeman Terrace,
Wigan, WN1 1TT

Site
 Liverpool Road, Hutton

Trial Pit
 Number
TP12

Excavation Method Trial Pit	Dimensions	Ground Level (mOD)	Client Lancashire County Council	Job Number 24182
	Location	Dates 08/01/2025	Engineer	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
0.10 0.10	D ES		Land drain (1) at 0.70m.		(0.45)	Firm dark brown slightly gravelly CLAY. Gravel is subangular to rounded fine to medium of sandstone and mudstone (topsoil)			
0.60	HV 80kPa				0.45 (0.35)	Firm orangish brown mottled grey slightly sandy slightly gravelly CLAY with medium cobble content. Gravel is angular to subrounded fine to coarse of sandstone and mudstone. Cobbles are subangular of sandstone		∇1	
1.30	HV 90kPa				0.80 (1.70)	Stiff dark brown mottled grey slightly gravelly CLAY with occasional yellowish green silt pockets and low cobble content. Gravel is subangular to subrounded fine to medium of sandstone and mudstone. Cobbles are subrounded of sandstone			
2.00 2.00	HV 104kPa D								
2.40	HV 102kPa					2.50	Complete at 2.50m		



Remarks
 Land drain at 0.70m, groundwater ingress associated. Vertical and stable

Scale (approx) 1:50	Logged By RM	Figure No. 24182.TP12
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ROBERT E. FRY & ASSOCIATES LTD.
45 Bridgeman Terrace,
Wigan, WN1 1TT

Site
 Liverpool Road, Hutton

Trial Pit
 Number
TP13

Excavation Method Trial Pit	Dimensions	Ground Level (mOD)	Client Lancashire County Council	Job Number 24182
	Location	Dates 08/01/2025	Engineer	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.30	D		Land drain (1) at 0.90m.		(0.50)	Firm dark grey slightly gravelly silty CLAY. Gravel is subangular to rounded fine to medium of sandstone and mudstone (topsoil)		
0.80	HV 100kPa				0.50 (0.20) 0.70	Firm orangish brown mottled grey slightly sandy slightly gravelly CLAY with low cobble content. Gravel is angular to subrounded fine to coarse of sandstone and mudstone. Cobbles are subangular to rounded of sandstone and quartzite		√1
1.50	HV 98kPa				(1.30)	Stiff dark brown mottled grey slightly gravelly CLAY with pockets of yellowish brown medium to coarse sand and medium cobble content. Gravel is subangular to subrounded fine to coarse of sandstone and mudstone. Cobbles are subangular to rounded of sandstone and mudstone.		
1.80	HV 96kPa				2.00	Complete at 2.00m		



Remarks
 Land drain at 0.90m, water ingress associated. Vertical and stable

Scale (approx) 1:50	Logged By RM	Figure No. 24182.TP13
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ROBERT E. FRY & ASSOCIATES LTD.
45 Bridgeman Terrace,
Wigan, WN1 1TT

Site
 Liverpool Road, Hutton

Trial Pit
 Number
TP14

Excavation Method Trial Pit	Dimensions	Ground Level (mOD)	Client Lancashire County Council	Job Number 24182
	Location	Dates 09/01/2025	Engineer	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.20	D				(0.30) 0.30	Soft becoming firm dark brown slightly gravelly silty CLAY. Gravel is angular to subrounded fine to coarse of sandstone, mudstone and quartzite (topsoil)		
0.90	HV 80kPa				(0.80)	Firm reddish brown slightly sandy slightly gravelly CLAY. Gravel is subangular to subrounded fine to coarse of sandstone, mudstone and quartzite		
1.80	HV 118kPa				1.10 (1.20)	Stiff dark brown mottled light grey slightly gravelly CLAY with occasional grey fine to medium sand pockets and low cobble content. Gravel is subangular to subrounded fine to coarse of sandstone, mudstone and quartzite. Cobbles are subrounded of sandstone		
2.20 2.30	HV 106kPa D				2.30	Complete at 2.30m		



Remarks
 Land drain at 0.40m. No groundwater encountered. Vertical and stable

Scale (approx) 1:50	Logged By RM	Figure No. 24182.TP14
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ROBERT E. FRY & ASSOCIATES LTD.
45 Bridgeman Terrace,
Wigan, WN1 1TT

Site
 Liverpool Road, Hutton

Trial Pit
 Number
TP15

Excavation Method Trial Pit	Dimensions	Ground Level (mOD)	Client Lancashire County Council	Job Number 24182
	Location	Dates 08/01/2025	Engineer	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
1.00	HV 88kPa				(0.50)	Firm dark brown slightly gravelly CLAY. Gravel is subangular to rounded fine to medium of sandstone and mudstone (topsoil)		
1.80	HV 106kPa				0.50 (0.30) 0.80	Firm orangish brown mottled grey slightly gravelly CLAY with occasional grey medium to coarse sand pockets. Gravel is subangular to subrounded fine to coarse of sandstone and mudstone		
2.30 2.40	D HV 116kPa				(1.70)	Stiff dark brown mottled grey slightly gravelly silty CLAY with occasional pockets of yellowish green silt and low cobble content. Gravel is subangular to subrounded fine to coarse of sandstone and mudstone. Cobbles are subangular to rounded sandstone		
					2.50	Complete at 2.50m		



Remarks
 Vertical and stable. No groundwater encountered

Scale (approx) 1:50	Logged By RM	Figure No. 24182.TP15
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ROBERT E. FRY & ASSOCIATES LTD.
45 Bridgeman Terrace,
Wigan, WN1 1TT

Site
 Liverpool Road, Hutton

Trial Pit
 Number
TP16

Excavation Method Trial Pit	Dimensions	Ground Level (mOD)	Client Lancashire County Council	Job Number 24182
	Location	Dates 09/01/2025	Engineer	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.20	D				(0.45)	Soft becoming firm dark brown slightly gravelly silty CLAY. Gravel is subangular to subrounded fine to medium of sandstone (topsoil)		
0.90	HV 92kPa				0.45 (0.45) 0.90	Firm orangish brown mottled dark brown and grey slightly gravelly CLAY with occasional yellowish brown fine to medium sand pockets. Gravel is angular to subrounded fine to coarse of sandstone and mudstone		
1.70	HV 98kPa				(1.50)	Stiff dark brown mottled grey slightly gravelly silty CLAY with occasional pockets of yellowish brown fine to coarse sand and low cobble content. Gravel is subangular to rounded fine to coarse of sandstone and mudstone. Cobbles are subrounded of sandstone		
2.30	HV 108kPa				2.40	Complete at 2.40m		
2.40	D							



Remarks
 Vertical and stable. No groundwater encountered

Scale (approx) 1:50	Logged By RM	Figure No. 24182.TP16
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ROBERT E. FRY & ASSOCIATES LTD.
45 Bridgeman Terrace,
Wigan, WN1 1TT

Site
 Liverpool Road, Hutton

Trial Pit
 Number
TP17

Excavation Method Trial Pit	Dimensions	Ground Level (mOD)	Client Lancashire County Council	Job Number 24182
	Location	Dates 09/01/2025	Engineer	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.20 0.20	D ES				(0.40) 0.40	Stiff to firm dark brown slightly sandy slightly gravelly CLAY. Gravel is subangular to subrounded fine to medium sandstone and mudstone (topsoil)		
1.00	HV 70kPa				(0.30) 0.70	Firm light brown mottled grey slightly gravelly CLAY with occasional orange fine to coarse sand pockets. Gravel is subangular to rounded fine to coarse sandstone and mudstone		
1.50	HV 82kPa				(1.70)	Stiff dark brown mottled grey slightly gravelly silty CLAY with occasional yellowish green silt pockets and low cobble content. Gravel is angular to subrounded fine to coarse of sandstone and mudstone ...Very friable from 1.50m		
2.10	HV 92kPa				2.40	Complete at 2.40m		
2.40	D							



Remarks
 Vertical and stable. No groundwater encountered

Scale (approx) 1:50	Logged By RM	Figure No. 24182.TP17
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ROBERT E. FRY & ASSOCIATES LTD.
45 Bridgeman Terrace,
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Site
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Trial Pit
 Number
TP18

Excavation Method Trial Pit	Dimensions	Ground Level (mOD)	Client Lancashire County Council	Job Number 24182
	Location	Dates 09/01/2025	Engineer	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.10	D				(0.50)	Dark brown slightly gravelly silty CLAY. Gravel is subangular to subrounded fine to coarse of sandstone and mudstone (topsoil)		
0.10	ES				0.50			
0.10	TP				(0.50)	Firm greyish orange and brown slightly sandy slightly gravelly CLAY with frequent orange fine to medium sand pockets and occasional yellowish green silt pockets. Gravel is subangular to subrounded fine to coarse of sandstone and mudstone		
0.90	HV 80kPa				1.00			
1.80	HV 102kPa				(1.35)	Stiff brown mottled light grey slightly gravelly CLAY with low cobble content and occasional pockets of silty brown fine to coarse sand. Gravel is angular to subrounded fine to coarse sandstone and mudstone. Cobbles of sandstone are subrounded		
1.90	D							
2.30	HV 110kPa				2.35	Complete at 2.35m		



Remarks
 Land drain at 0.60m. Vertical and stable

Scale (approx) 1:50	Logged By RM	Figure No. 24182.TP18
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ROBERT E. FRY & ASSOCIATES LTD.
45 Bridgeman Terrace,
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Site
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Trial Pit
 Number
TP19

Excavation Method Trial Pit	Dimensions	Ground Level (mOD)	Client Lancashire County Council	Job Number 24182
	Location	Dates 09/01/2025	Engineer	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.15 0.15	D ES				(0.30) 0.30	Soft to firm dark brown slightly gravelly silty CLAY. Gravel is subangular to subrounded fine to coarse sandstone and mudstone (topsoil)		
0.70	HV 84kPa				(0.40) 0.70	Firm orangish brown mottled grey slightly gravelly CLAY with occasional yellowish green sandy silt pockets. Gravel is subangular to subrounded fine to coarse of sandstone and mudstone		
1.80	HV 92kPa				(1.50)	Stiff brown mottled light grey slightly gravelly CLAY with occasional pockets of light brown fine to coarse sand. Gravel is angular to subrounded fine to coarse sandstone and mudstone.		
2.10 2.20	HV 98kPa D				2.20	Complete at 2.20m		



Remarks
 Vertical and stable. No groundwater encountered

Scale (approx) 1:50	Logged By RM	Figure No. 24182.TP19
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ROBERT E. FRY & ASSOCIATES LTD.
45 Bridgeman Terrace,
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Site
 Liverpool Road, Hutton

Trial Pit
 Number
TP20

Excavation Method Trial Pit	Dimensions	Ground Level (mOD)	Client Lancashire County Council	Job Number 24182
	Location	Dates 09/01/2025	Engineer	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.25	D		Land drain (1) at 0.70m.		(0.40) 0.40	Soft to firm dark grey slightly sandy slightly gravelly CLAY. Gravel is subangular to subrounded fine to coarse of sandstone and mudstone (topsoil)		
0.90	HV 76kPa				(0.50) 0.90	Firm brown mottled grey and dark brown slightly gravelly CLAY with frequent grey fine to coarse sand bands and low cobble content. Gravel is subangular to subrounded fine to coarse of sandstone and mudstone. Cobbles are subrounded sandstone		∇1
1.70 1.80 2.00	HV 92kPa ES HV 98kPa				(1.30) 2.20	Stiff dark brown mottled grey slightly gravelly CLAY with occasional greyish brown fine to coarse sand pockets and medium cobble content. Gravel are subrounded fine to coarse of sandstone and mudstone. Cobbles are subrounded sandstone		
						Complete at 2.20m		



Remarks

Land drain at 0.70m, filling pit quickly so moved slightly to avoid termination. Vertical and stable.

Scale (approx)	Logged By	Figure No.
1:50	RM	24182.TP20



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Site
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Trial Pit
 Number
TP21

Excavation Method Trial Pit	Dimensions	Ground Level (mOD)	Client Lancashire County Council	Job Number 24182
	Location	Dates 09/01/2025	Engineer	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.15 0.15	D ES				(0.60)	Firm dark brown slightly sandy slightly gravelly CLAY with occasional rootlets (topsoil). Gravel is subangular to rounded fine to medium of sandstone and mudstone (topsoil)		
0.80	HV 96kPa				0.60 (0.40) 1.00	Firm to stiff orangish brown mottled grey slightly sandy slightly gravelly CLAY with occasional bands of fine grey sand. Gravel is angular to subrounded fine to coarse of sandstone and mudstone		
1.90 2.10	HV 112kPa HV 104kPa				(1.20) 2.20	Stiff dark brown slightly gravelly CLAY with occasional brown fine sand pockets and low cobble content. Gravel is subangular to subrounded fine to coarse sandstone and mudstone. Cobbles are subangular of sandstone		
						Complete at 2.20m		



Remarks
 Land drain at 0.50m. Vertical and stable. No groundwater encountered

Scale (approx) 1:50	Logged By RM	Figure No. 24182.TP21
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ROBERT E. FRY & ASSOCIATES LTD.
45 Bridgeman Terrace,
Wigan, WN1 1TT

Site
 Liverpool Road, Hutton

Trial Pit
 Number
TP22

Excavation Method Trial Pit	Dimensions	Ground Level (mOD)	Client Lancashire County Council	Job Number 24182
	Location	Dates 09/01/2025	Engineer	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.10 0.10	D ES				(0.50)	Soft to firm dark grey slightly gravelly silty CLAY (topsoil). Gravel is angular to subrounded fine to coarse of sandstone and mudstone (topsoil)		
0.90	HV 76kPa				0.50 (0.60)	Firm orangish brown mottled dark brown and grey slightly sandy slightly gravelly CLAY with frequent grey fine to coarse sand pockets and low cobble content. Gravel is angular to rounded fine to coarse of sandstone and mudstone		
1.40	HV 88kPa				1.10	Stiff dark brown mottled grey slightly gravelly CLAY with medium cobble content and occasional pockets of yellowish brown sandy silt pockets. Gravel is subangular to rounded fine to coarse of sandstone and mudstone. Cobbles are angular to subrounded sandstone and mudstone		
2.00 2.00	HV 110kPa D				(1.35)			
					2.45	Complete at 2.45m		



Remarks
 Vertical and stable. No groundwater encountered

Scale (approx) 1:50	Logged By RM	Figure No. 24182.TP22
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Site
 Liverpool Road, Hutton

Trial Pit
 Number
TP24

Excavation Method Trial Pit	Dimensions	Ground Level (mOD)	Client Lancashire County Council	Job Number 24182
	Location	Dates 09/01/2025	Engineer	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.20	D				(0.45)	Soft dark brown slightly gravelly silty CLAY. Gravel is subangular to rounded fine to medium of sandstone and mudstone (topsoil)		
0.20	ES				0.45			
0.70	HV 80kPa				(0.65)	Firm reddish brown mottled dark grey slightly sandy slightly gravelly CLAY with occasional orange fine to coarse sand pockets. Gravel is subangular to rounded fine to coarse of sandstone, mudstone and quartzite		
					1.10			
1.60	HV 92kPa				(1.30)	Stiff dark brown mottled grey slightly gravelly CLAY with occasional pockets of dark grey fine to coarse sand. Gravel is subangular to rounded fine to coarse of sandstone, mudstone and quartzite		
2.20	HV 98kPa							
2.40	D				2.40	Complete at 2.40m		



Remarks
 Vertical and stable. No groundwater encountered

Scale (approx) 1:50	Logged By RM	Figure No. 24182.TP24
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Site
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Trial Pit
 Number
TP25

Excavation Method Trial Pit	Dimensions	Ground Level (mOD)	Client Lancashire County Council	Job Number 24182
	Location	Dates 09/01/2025	Engineer	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.10	D				(0.30) 0.30	Soft becoming firm dark brown slightly gravelly silty CLAY. Gravel is subangular to rounded fine to coarse of sandstone (topsoil)		
1.00	HV 80kPa				(0.80) 1.10	Firm brown mottled grey and orange slightly gravelly silty CLAY with occasional brown fine to medium sand pockets. Gravel is subangular to rounded fine to coarse of sandstone and mudstone.		
1.60	HV 100kPa				(1.15) 2.25	Stiff dark brown mottled light grey slightly gravelly silty CLAY with medium cobble content. Gravel is angular to subrounded fine to coarse of sandstone and mudstone. Cobbles are subrounded sandstone and mudstone ... Increase in grey mottling with depth		
2.20	HV 108kPa					Complete at 2.25m		



Remarks
 Vertical and stable. No groundwater encountered

Scale (approx) 1:50	Logged By RM	Figure No. 24182.TP25
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Site
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Trial Pit
 Number
TP26

Excavation Method Trial Pit	Dimensions	Ground Level (mOD)	Client Lancashire County Council	Job Number 24182
	Location	Dates 09/01/2025	Engineer	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.10 0.10	D ES				(0.30) 0.30	Soft to firm dark brown slightly gravelly CLAY. Gravel is subangular to rounded fine to medium of sandstone and mudstone (topsoil)		
0.90	HV 82kPa				(0.70) 1.00	Firm orangish brown mottled dark grey slightly sandy CLAY with occasional orange fine to medium sand pockets and low cobble content. Gravel is angular to subrounded fine to coarse of sandstone and mudstone. Cobbles are subrounded sandstone		
1.50	HV 90kPa				(1.30)	Stiff dark brown slightly gravelly CLAY with occasional brown fine to medium sand pockets. Gravel is subangular to rounded fine to coarse of sandstone and mudstone		
2.20 2.30	HV 102kPa D				2.30	Complete at 2.30m		



Remarks
 Vertical and stable. No groundwater encountered

Scale (approx) 1:50	Logged By RM	Figure No. 24182.TP26
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45 Bridgeman Terrace,
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Site
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Trial Pit
 Number
TP27

Excavation Method Trial Pit	Dimensions	Ground Level (mOD)	Client Lancashire County Council	Job Number 24182
	Location	Dates 09/01/2025	Engineer	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.15	D				(0.30) 0.30	Soft to firm dark grey slightly gravelly silty CLAY. Gravel is subangular to rounded fine to coarse of sandstone and mudstone (topsoil)		
1.00	HV 102kPa				(0.60) 0.90	Firm brown mottled dark grey slightly gravelly silty CLAY with occasional orange fine to medium sand pockets. Gravel is subangular to rounded fine to coarse of sandstone and mudstone.		
2.50 2.50	HV 116kPa D				(1.70) 2.60	Stiff dark brown mottled light grey slightly gravelly silty CLAY with occasional yellowish brown fine to coarse sand pockets. Gravel is angular to subrounded fine to coarse of sandstone, mudstone and marble		
						Complete at 2.60m		



Remarks
 Land drain at 0.70m. Vertical and stable. No groundwater encountered

Scale (approx) 1:50	Logged By RM	Figure No. 24182.TP27
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Site
 Liverpool Road, Hutton

Trial Pit
 Number
TP28

Excavation Method Trial Pit	Dimensions	Ground Level (mOD)	Client Lancashire County Council	Job Number 24182
	Location	Dates 09/01/2025	Engineer	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.05 0.05	D ES				(0.30) 0.30	Soft to firm dark brown slightly gravelly CLAY with frequent rootlets. Gravel is angular to subrounded fine to medium of sandstone and mudstone (topsoil)		
0.70	HV 90kPa				(0.50) 0.80	Firm brown mottled orange and dark grey slightly sandy slightly gravelly silty CLAY with occasional grey fine to medium sand pockets. Gravel is angular to subrounded fine to coarse of sandstone and mudstone		
1.70	HV 98kPa				(1.50)	Stiff dark brown mottled light grey slightly gravelly CLAY with occasional pockets of orange fine to medium sand and low cobble content. Gravel is subangular to subrounded fine to coarse of sandstone and mudstone. Cobbles are subrounded mudstone		
2.20 2.20	HV 100kPa D				2.30	Complete at 2.30m		



Remarks
 Vertical and stable. No groundwater encountered

Scale (approx) 1:50	Logged By RM	Figure No. 24182.TP28
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ROBERT E. FRY & ASSOCIATES LTD.
45 Bridgeman Terrace,
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Site
 Liverpool Road, Hutton

Trial Pit
 Number
TP30

Excavation Method Trial Pit	Dimensions	Ground Level (mOD)	Client Lancashire County Council	Job Number 24182
	Location	Dates 09/01/2025	Engineer	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.15 0.15	D ES				(0.40) 0.40	Dark grey slightly gravelly silty CLAY with occasional rootlets. Gravel is angular to subrounded fine to medium of sandstone and mudstone (topsoil)		
1.00	HV 88kPa				(0.60) 1.00	Firm brown mottled orange and grey slightly sandy slightly gravelly CLAY with frequent yellowish brown fine to medium sand pockets and low cobble content. Gravel is subangular to subrounded fine to coarse of sandstone and mudstone. Cobbles are subrounded of sandstone		
2.00 2.30	HV 114kPa HV 118kPa				(1.30) 2.30	Stiff dark brown mottled grey slightly gravelly silty CLAY with occasional pockets of greyish brown fine to coarse sand and low cobble and boulder content. Gravel is subangular to subrounded fine to coarse of sandstone and mudstone. Cobbles and boulders are subangular sandstone ... Mottling increasing with depth		
						Complete at 2.30m		



Remarks
 Vertical and stable. No groundwater encountered

Scale (approx) 1:50	Logged By RM	Figure No. 24182.TP30
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ROBERT E. FRY & ASSOCIATES LTD.
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Site
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Trial Pit
 Number
TP31

Excavation Method Trial Pit	Dimensions	Ground Level (mOD)	Client Lancashire County Council	Job Number 24182
	Location	Dates 09/01/2025	Engineer	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.20 0.20	D ES				(0.30) 0.30	Soft to firm dark grey slightly gravelly silty CLAY with occasional rootlets. Gravel is subangular to rounded fine to coarse of sandstone and mudstone (topsoil)		
0.80	HV 82kPa				(0.50) 0.80	Firm brown mottled orangish grey and slightly sandy slightly gravelly silty CLAY with occasional reddish brown fine to medium sand pockets. Gravel is subangular to subrounded fine to coarse of mudstone.		
1.70 1.70	HV 92kPa D				(1.70)	Stiff dark brown mottled light grey slightly sandy slightly gravelly CLAY with occasional grey fine to medium sand pockets. Gravel is angular to subrounded fine to coarse of sandstone and mudstone.		
2.50	HV 110kPa				2.50	Complete at 2.50m		



Remarks
 Vertical and stable. No groundwater encountered

Scale (approx) 1:50	Logged By RM	Figure No. 24182.TP31
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