

APPENDIX B - EXPLORATORY HOLE LOGS



Borehole Log

Borehole No.
BH-P2-101
Sheet 1 of 1
Hole Type
WS
Scale
1:25
Logged By
AP

Project Name: Bury Interchange
Location: Manchester
Client: Willmott Dixon
Project No. TE1885
Co-ords: 380422.64 - 401525.98
Level: 86.84
Dates: 03/11/2024 -

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.20	ES	N=20 (2,5/4,7,5,4)	0.65	86.19		MADE GROUND: Dark grey, angular to subangular, medium to coarse GRAVEL of mixed igneous lithologies. (Railway Ballast) MADE GROUND	1
		0.50	B						
		0.80	ES					MADE GROUND: Reddish brown, slightly silty, fine to coarse SAND MADE GROUND	
		1.00	SPTL S					MADE GROUND: Light grey, medium to coarse, subangular GRAVEL of limestone. MADE GROUND	
		1.40	ES	50 (8,13/50 for 42mm)	1.70	85.14		Stiff, locally very stiff, dark brown, slightly gravelly to gravelly CLAY. Gravel is subangular to subrounded, fine to coarse of mixed natural lithologies.	2
		1.80	SPTL S						
		1.80			1.99	84.85		End of borehole at 1.99 m	5

Remarks
1) Hand dug pit to 1.20m bgl. 2) Terminated on SPT refusal. 3) Water strike at 1.50m bgl. 4) Backfilled with bentonite. 5) Cased to 1.50m bgl. 6) Rock strength descriptions are derived from field tests only.





Borehole Log

Borehole No.
BH-P2-102
Sheet 1 of 1
Hole Type
WS
Scale
1:25
Logged By
AP

Project Name: Bury Interchange
Location: Manchester
Client: Willmott Dixon
Project No. TE1885
Co-ords: 380437.98 - 410520.16
Level: 86.59
Dates: 03/11/2024 -

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.50	ES		0.70	85.89		MADE GROUND: Grey, angular to subangular, coarse GRAVEL of mixed igneous lithologies (Railway Ballast) MADE GROUND	1
		0.80	ES					MADE GROUND: Reddish brown, medium to coarse SAND MADE GROUND	
		0.90	B						
		1.00	SPTL S		1.00	85.59		MADE GROUND: Light grey, subangular to subrounded, fine to coarse GRAVEL of limestone. MADE GROUND	
		1.20		N=10 (1,3/3,2,3,2)	1.20	85.39		POSSIBLE MADE GROUND; Stiff, dark brown, slightly sandy, slightly gravelly to gravelly CLAY. Gravel is subangular to subrounded, fine to coarse of mixed natural lithologies. Occasional pieces of wood. POSSIBLE MADE GROUND	
		1.50	ES					POSSIBLE MADE GROUND: Light brown and grey, slightly sandy, angular to subrounded, fine to coarse GRAVEL of mixed natural lithologies. POSSIBLE MADE GROUND	
		1.60	B		1.60	84.99			
		1.70	SPTL S						
		1.70		63 (5,8/63 for 97mm)					
					1.95	84.64		End of borehole at 1.95 m	2
									3
									4
									5

Remarks
1) Hand dug pit to 1.20m. 2) Water strike at 1.60m bgl. 3) Terminated on SPT refusal. 4) Cased to 1.50m bgl. 5) Rock strength descriptions are derived from field tests only.





Rotary Core Log

Borehole No.

BH-P2-104

Sheet 1 of 6

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: 380328.46 - 410382.07

Hole Type
CP+RC

Location: Manchester

Level: 92.44

Scale
1:25

Client: Willmott Dixon

Dates: 01/04/2025 -

Logged By
JL + AM

Well	Water Strikes	Depth (m)	Type / FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description										
				TCR	SCR	RQD														
		0.50 - 0.80	ES D				0.20	92.24		MADE GROUND: Orangish brown PAVING MADE GROUND	1 -									
							0.45	91.99		MADE GROUND: Light grey CONCRETE, rebar at 0.45m crossing south west to north east and south east to north west - 2 layers MADE GROUND										
		0.80	D				0.90	91.54		MADE GROUND: Dark grey, slightly clayey, very sandy GRAVEL with moderate cobble content. Sand is fine to coarse, gravel is fine to coarse, subangular to angular of sandstone, brick and concrete. Cobble is of sandstone and brick. MADE GROUND										
										MADE GROUND: Very stiff, dark greyish brown, slightly sandy, gravelly CLAY. Gravel is angular to subangular, fine to coarse of sandstone, mudstone, brick and concrete. MADE GROUND										
		1.10 - 1.30 1.20 1.20 - 1.55	ES SPTL S D				2.20	90.24		MADE GROUND: Greyish brown, clayey GRAVEL. Gravel is angular to subangular, fine to coarse of mudstone, brick and concrete. MADE GROUND	2 -									
		2.30	SPTL S B																	
		2.30 - 2.60 2.30 - 2.60	ES																	
		3.20	SPTL S ES				3.10	89.34		MADE GROUND: Stiff, locally firm greyish brown, very slightly sandy CLAY. Gravel is subangular to subrounded, fine to coarse of mudstone, brick and other lithologies. Sand is medium to coarse. Occasional black staining and vegetation throughout. MADE GROUND	3 -									
		3.20 - 3.50 3.20 - 3.65	D								4 -									
		4.50	SPTL S																	
		4.50 - 4.95	D								5 -									
Continued on next sheet																				

Remarks

1) Groundwater ingress encountered at 13.00m bgl rose to ground level overnight. 2) Terminated at target depth. 3) No visual or olfactory evidence of contamination. 4) Rock strength descriptions are derived from field tests only.





Rotary Core Log

Borehole No.
BH-P2-104

Sheet 2 of 6

Hole Type
CP+RC

Scale
1:25

Logged By
JL + AM

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: 380328.46 - 410382.07

Location: Manchester

Level: 92.44

Client: Willmott Dixon

Dates: 01/04/2025 -

Well	Water Strikes	Depth (m)	Type / FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		5.50 5.50 - 5.70 5.50 - 5.95	SPTL S ES D				5.70	86.74		Firm to stiff, dark greyish brown, gravelly, silty CLAY. Gravel is subrounded to subangular, fine to medium of quartz, sandstone and coal TILL	6
		7.00 7.00 - 7.45	SPTL S D								7
		7.50 - 7.80	B								8
		8.40 - 8.85 8.90	U D								9
		9.30 9.30 - 9.60	SPTL S D				9.30	83.14		Stiff, light brown, mottled orange, sandy CLAY. Sand is fine to medium. Gravel is angular to subangular, fine to coarse of sandstone. TILL	10

Continued on next sheet

Remarks

1) Groundwater ingress encountered at 13.00m bgl rose to ground level overnight. 2) Terminated at target depth. 3) No visual or olfactory evidence of contamination. 4) Rock strength descriptions are derived from field tests only.





Rotary Core Log

Borehole No.
BH-P2-104
Sheet 3 of 6
Hole Type
CP+RC
Scale
1:25
Logged By
JL + AM

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: 380328.46 - 410382.07

Location: Manchester

Level: 92.44

Client: Willmott Dixon

Dates: 01/04/2025 -

Well	Water Strikes	Depth (m)	Type / FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		11.00	SPTL S								11
		11.00 - 11.45	D								
		11.50 - 11.80	B								12
		12.40	SPTL S								
		12.40 - 12.55	D								
		13.00	SPTL S				13.00	79.44		Very dense, light brown, clayey GRAVEL with moderate cobble content. Gravel is subrounded to subangular, fine to coarse of sandstone. Cobble is subangular of sandstone.	13
		13.00 - 13.15	D								
		13.00 - 13.40	ES								
		13.70 - 14.00	D				13.70	78.74		Stiff, becoming very stiff, dark grey, gravelly CLAY. Gravel is subangular, medium to coarse of mudstone.	14
		13.70 - 14.00	ES								
		14.10	SPTL S								
		14.10 - 14.40	D								15
Continued on next sheet											

Remarks

1) Groundwater ingress encountered at 13.00m bgl rose to ground level overnight. 2) Terminated at target depth. 3) No visual or olfactory evidence of contamination. 4) Rock strength descriptions are derived from field tests only.





Rotary Core Log

Borehole No.

BH-P2-104

Sheet 4 of 6

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: 380328.46 - 410382.07

Hole Type
CP+RC

Location: Manchester

Level: 92.44

Scale
1:25

Client: Willmott Dixon

Dates: 01/04/2025 -

Logged By
JL + AM

Well	Water Strikes	Depth (m)	Type / FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		15.10 15.10 - 15.30	SPTL S D				15.20 15.35	77.24 77.09		Dark grey MUDSTONE	16
		15.50 - 15.60	C							Very weathered, thinly laminated, dark grey, very fine grained MUDSTONE with rare plant fossils. Discontinuities are sub horizontal to subvertical, extremely close to very closely spaced, undulating smooth, planar smooth to planar rough, extremely weak wall strength. Tight to partly open and clean.	
		15.50 - 17.00		100	65	63	16.20	76.24		Very weak, thinly laminated dark grey, very fine grained MUDSTONE. Discontinuities are sub horizontal to subvertical, extremely close to closely spaced, stepped smooth, planar smooth to undulating smooth. Weak wall strength. Tight to partly open and clean	17
		17.00 - 18.50		100	85	79					
		18.70 - 18.80	C							Very weak, thinly cross laminated, dark grey, very fine grained MUDSTONE. Discontinuities are sub horizontal to subvertical, very closely to medium spaced, undulating rough and planar rough, very weak wall strength. Tight to slightly open and clean.	19
		19.00	D								
		18.50 - 20.00		100	60	68					20
							19.60	72.84		Extremely weak, thinly laminated, dark grey, very fine grained MUDSTONE. Discontinuities are sub horizontal, very closely to medium spaced. Undulating rough and planar rough. Extremely weak wall strength. Tight to moderately wide and infilled with clay.	

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Remarks

1) Groundwater ingress encountered at 13.00m bgl rose to ground level overnight. 2) Terminated at target depth. 3) No visual or olfactory evidence of contamination. 4) Rock strength descriptions are derived from field tests only.





Rotary Core Log

Borehole No.

BH-P2-104

Sheet 5 of 6

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: 380328.46 - 410382.07

Hole Type
CP+RC

Location: Manchester

Level: 92.44

Scale
1:25

Client: Willmott Dixon

Dates: 01/04/2025 -

Logged By
JL + AM

Well	Water Strikes	Depth (m)	Type / FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		20.00 - 21.40		100	70	64					21
							21.40	71.04		Extremely weak, thinly laminated, light grey MUDSTONE. Subrounded to subrounded, close to medium spaced, undulating rough, planar smooth, extremely weak wall strength, tight to partially open and clean.	22
		22.10 21.40 - 23.00	D	100	49	16					
		22.50 - 22.60	C				22.80	69.64		Weak, thinly laminated, dark grey MUDSTONE. Subrounded to subvertical, very close to close spacing, undulating rough, planar smooth, weak wall strength, tight and clean.	23
							23.00	69.44		Extremely weak, thinly laminated, light grey MUDSTONE. Subrounded to subvertical, very close to close spacing. Undulating rough, planar smooth, very weak wall strength, tight to partially open and clean.	
		23.00 - 24.50		80	68	21					24
							24.20	68.24		Weak, thinly laminated, dark grey MUDSTONE. Subrounded to subvertical, very close to close spacing, undulating rough, planar smooth, weak wall strength, tight and clean.	
											25

Continued on next sheet

Remarks

1) Groundwater ingress encountered at 13.00m bgl rose to ground level overnight. 2) Terminated at target depth. 3) No visual or olfactory evidence of contamination. 4) Rock strength descriptions are derived from field tests only.





Rotary Core Log

Borehole No.
BH-P2-104

Sheet 6 of 6

Project Name: Bury Interchange	Project No. TE1885	Co-ords: 380328.46 - 410382.07	Hole Type CP+RC
Location: Manchester		Level: 92.44	Scale 1:25
Client: Willmott Dixon		Dates: 01/04/2025 -	Logged By JL + AM

Well	Water Strikes	Depth (m)	Type / FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		25.20 - 25.30 24.50 - 25.70	C	60	42	12	25.50	66.94		Extremely weak, thinly laminated, light grey MUDSTONE. Subrounded to subvertical, very close to close spacing. Undulating rough, planar smooth, very weak wall strength, tight to partially open and clean. End of borehole at 25.70 m	26
		25.70	D				25.70	66.74			27
											28
											29
											30

Remarks
1) Groundwater ingress encountered at 13.00m bgl rose to ground level overnight. 2) Terminated at target depth. 3) No visual or olfactory evidence of contamination. 4) Rock strength descriptions are derived from field tests only.





Borehole Log

Borehole No.
BH-P2-104

Sheet 1 of 6

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: 380328.46 - 410382.07

Hole Type
CP+RC

Location: Manchester

Level: 92.44

Scale
1:25

Client: Willmott Dixon

Dates: 01/04/2025 -

Logged By
JL + AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.20	92.24		MADE GROUND: Orangish brown PAVING MADE GROUND	
					0.45	91.99		MADE GROUND: Light grey CONCRETE, rebar at 0.45m crossing south west to north east and south east to north west - 2 layers MADE GROUND	
		0.50 - 0.80	ES					MADE GROUND: Dark grey, slightly clayey, very sandy GRAVEL with moderate cobble content. Sand is fine to coarse, gravel is fine to coarse, subangular to angular of sandstone, brick and concrete. Cobble is of sandstone and brick. MADE GROUND	
		0.80	D		0.90	91.54		MADE GROUND: Very stiff, dark greyish brown, slightly sandy, gravelly CLAY. Gravel is angular to subangular, fine to coarse of sandstone, mudstone, brick and concrete. MADE GROUND	1
		1.10 - 1.30	ES						
		1.20	SPTL						
		1.20	S	50 (10,12/50 for 79mm)					
		1.20 - 1.55	D						
					2.20	90.24		MADE GROUND: Greyish brown, clayey GRAVEL. Gravel is angular to subangular, fine to coarse of mudstone, brick and concrete. MADE GROUND	2
		2.30	SPTL						
		2.30	S	50 (25 for 20mm/50 for 30mm)					
		2.30 - 2.60	B						
		2.30 - 2.60	ES						
					3.10	89.34		MADE GROUND: Stiff, locally firm greyish brown, very slightly sandy CLAY. Gravel is subangular to subrounded, fine to coarse of mudstone, brick and other lithologies. Sand is medium to coarse. Occasional black staining and vegetation throughout. MADE GROUND	3
		3.20	SPTL						
		3.20	S	N=17 (5,5/5,4,4,4)					
		3.20 - 3.50	ES						
		3.20 - 3.65	D						
		4.50	SPTL						
		4.50	S	N=12 (2,3/3,3,3,3)					
		4.50 - 4.95	D						4
									5

Continued on next sheet

Remarks

1) Groundwater ingress encountered at 13.00m bgl rose to ground level overnight. 2) Terminated at target depth. 3) No visual or olfactory evidence of contamination. 4) Rock strength descriptions are derived from field tests only.





Borehole Log

Borehole No.
BH-P2-104

Sheet 2 of 6

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: 380328.46 - 410382.07

Hole Type
CP+RC

Location: Manchester

Level: 92.44

Scale
1:25

Client: Willmott Dixon

Dates: 01/04/2025 -

Logged By
JL + AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		5.50 5.50 5.50 - 5.70 5.50 - 5.95	SPTL S ES D	N=24 (4,5/5,6,6,7)	5.70	86.74			
		7.00 7.00 7.00 - 7.45	SPTL S D	N=31 (5,5/7,7,8,9)					6
		7.50 - 7.80	B						
		8.40 - 8.85	U						
		8.90	D						
		9.30 9.30 9.30 - 9.60	SPTL S D	50 (10,13/50 for 125mm)	9.30	83.14			9
Continued on next sheet									10

Remarks

1) Groundwater ingress encountered at 13.00m bgl rose to ground level overnight. 2) Terminated at target depth. 3) No visual or olfactory evidence of contamination. 4) Rock strength descriptions are derived from field tests only.





Borehole Log

Borehole No.
BH-P2-104

Sheet 3 of 6

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: 380328.46 - 410382.07

Hole Type
CP+RC

Location: Manchester

Level: 92.44

Scale
1:25

Client: Willmott Dixon

Dates: 01/04/2025 -

Logged By
JL + AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description						
		Depth (m)	Type	Results										
		11.00 11.00	SPTL S	N=47 (6,8/8,10,17,12)	13.00	79.44			11					
		11.00 - 11.45	D											
		11.50 - 11.80	B											
		12.40 12.40	SPTL S	50 (25 for 70mm/50 for 85mm)										
		12.40 - 12.55	D											
		13.00 13.00	SPTL S	50 (25 for 105mm/50 for 90mm)				Very dense, light brown, clayey GRAVEL with moderate cobble content. Gravel is subrounded to subangular, fine to coarse of sandstone. Cobble is subangular of sandstone.						
		13.00 - 13.15 13.00 - 13.40	D ES											
		13.70 - 14.00 13.70 - 14.00	D ES	50 (5.5/50 for 180mm)				Stiff, becoming very stiff, dark grey, gravelly CLAY. Gravel is subangular, medium to coarse of mudstone.						
		14.10 14.10	SPTL S											
		14.10 - 14.40	D											
Continued on next sheet									15					

Remarks

1) Groundwater ingress encountered at 13.00m bgl rose to ground level overnight. 2) Terminated at target depth. 3) No visual or olfactory evidence of contamination. 4) Rock strength descriptions are derived from field tests only.





Borehole Log

Borehole No.

BH-P2-104

Sheet 4 of 6

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: 380328.46 - 410382.07

Hole Type
CP+RC

Location: Manchester

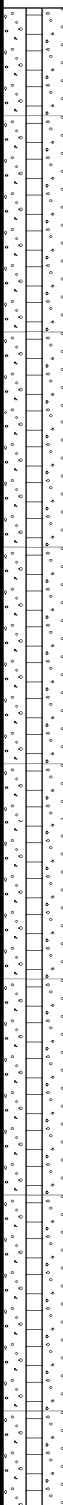
Level: 92.44

Scale
1:25

Client: Willmott Dixon

Dates: 01/04/2025 -

Logged By
JL + AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		15.10	SPTL	50 (35 for 115mm/50 for 85mm)	15.20	77.24			16
		15.10						S	
		15.10 - 15.30	D		15.35	77.09		Very weathered, thinly laminated, dark grey, very fine grained MUDSTONE with rare plant fossils. Discontinuities are sub horizontal to subvertical, extremely close to very closely spaced, undulating smooth, planar smooth to planar rough, extremely weak wall strength. Tight to partly open and clean.	16
		15.50 - 15.60	C						
					16.20	76.24		Very weak, thinly laminated dark grey, very fine grained MUDSTONE. Discontinuities are sub horizontal to subvertical, extremely close to closely spaced, stepped smooth, planar smooth to undulating smooth. Weak wall strength. Tight to partly open and clean	17
								19	
								19	
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Remarks

1) Groundwater ingress encountered at 13.00m bgl rose to ground level overnight. 2) Terminated at target depth. 3) No visual or olfactory evidence of contamination. 4) Rock strength descriptions are derived from field tests only.





Borehole Log

Borehole No.
BH-P2-104

Sheet 5 of 6

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: 380328.46 - 410382.07

Hole Type
CP+RC

Location: Manchester

Level: 92.44

Scale
1:25

Client: Willmott Dixon

Dates: 01/04/2025 -

Logged By
JL + AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		22.10	D		21.40	71.04		Extremely weak, thinly laminated, light grey MUDSTONE. Subrounded to subrounded, close to medium spaced, undulating rough, planar smooth, extremely weak wall strength, tight to partially open and clean.	21
		22.50 - 22.60	C						22
					22.80	69.64		Weak, thinly laminated, dark grey MUDSTONE. Subrounded to subvertical, very close to close spacing, undulating rough, planar smooth, weak wall strength, tight and clean.	23
					23.00	69.44		Extremely weak, thinly laminated, light grey MUDSTONE. Subrounded to subvertical, very close to close spacing. Undulating rough, planar smooth, very weak wall strength, tight to partially open and clean.	
					24.20	68.24		Weak, thinly laminated, dark grey MUDSTONE. Subrounded to subvertical, very close to close spacing, undulating rough, planar smooth, weak wall strength, tight and clean.	24
Continued on next sheet									25

Remarks

1) Groundwater ingress encountered at 13.00m bgl rose to ground level overnight. 2) Terminated at target depth. 3) No visual or olfactory evidence of contamination. 4) Rock strength descriptions are derived from field tests only.





Borehole No.
BH-P2-104

Sheet 6 of 6

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: 380328.46 - 410382.07

Hole Type
CP+RC

Location: Manchester

Level: 92.44

Scale
1:25

Client: Willmott Dixon

Dates: 01/04/2025 -

Logged By
JL + AM

[illegible]

Remarks

1) Groundwater ingress encountered at 13.00m bgl rose to ground level overnight. 2) Terminated at target depth. 3) No visual or olfactory evidence of contamination. 4) Rock strength descriptions are derived from field tests only.





Rotary Core Log

Borehole No.
BH-P2-105

Sheet 1 of 6

Hole Type
CP+RC

Scale
1:25

Logged By
JL

Project Name: Bury Interchange

Project No.
TE1885

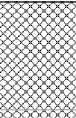
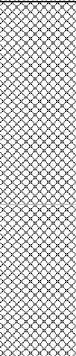
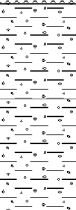
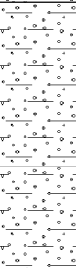
Co-ords: 380400.32 - 410395.10

Location: Manchester

Level: 88.10

Client: Willmott Dixon

Dates: 27/03/2025 -

Well	Water Strikes	Depth (m)	Type / FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		0.20	D				0.40	87.70		MADE GROUND: Dark greyish brown, slightly gravelly, slightly clayey SAND. Gravel is subangular to subrounded, fine to medium of brick and mudstone and other mixed lithologies. MADE GROUND	1
		1.00	D							MADE GROUND: Firm, dark greyish brown, gravelly CLAY. Gravel is fine to coarse, angular to subangular of brick, mudstone and mixed lithologies. MADE GROUND	
		1.20	SPTL S								
										<i>turning stiff at 1.60m</i>	
		1.70 - 2.00	B				2.10	86.00		MADE GROUND: Medium dense, light orangish brown, clayey, slightly sandy GRAVEL. Gravel is fine to coarse, angular to subangular of brick and mixed lithologies. MADE GROUND	2
		1.70 - 2.00	ES								
		2.10 - 2.55	SPTL S								
		2.40 - 2.80	ES								
							2.90	85.20		Stiff, dark brown, gravelly CLAY. Gravel is fine to coarse, subangular to subrounded of mudstone.	3
		3.00 - 3.05	U								
		3.70	D				4.10	84.00		<i>turning very stiff at 3.60m</i>	4
		3.70 - 4.00	B								
		4.20 - 4.60	SPTL S							Very dense, dark greyish brown, clayey GRAVEL. Gravel is angular to subangular, fine to coarse of mudstone.	
		4.60 - 4.90	B								5
Continued on next sheet											

Remarks

1) Groundwater ingress encountered at 9.50m rising to 8.50m after 20mins and 7.50m no rise. 2) Terminated at target depth. 3) No visual or olfactory evidence of contamination. 4) Rock strength descriptions are derived from field tests only.





Rotary Core Log

Borehole No.
BH-P2-105
Sheet 2 of 6
Hole Type
CP+RC
Scale
1:25
Logged By
JL

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: 380400.32 - 410395.10

Location: Manchester

Level: 88.10

Client: Willmott Dixon

Dates: 27/03/2025 -

Well	Water Strikes	Depth (m)	Type / FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		5.20 - 5.60	SPTL S				6.50	81.60		Very stiff, greyish brown, gravelly CLAY. Gravel is angular to subangular, fine to coarse of mudstone.	6
		6.50 - 6.90	SPTL S								
		6.90 - 7.20	B								7
										turning light grey at 7.80m	8
		8.10 - 8.50	SPTL S								
		8.50 - 8.70	B							Turning stiff at 8.70m	
		8.70 - 8.90	SPTL S								9
		9.80 - 9.95	SPTL S				9.50	78.60		Very weak, thinly laminated, dark grey MUDSTONE. Discontinuities are sub horizontal to subvertical, very closely to closely spaced, planar smooth, undulating smooth, very weak wall strength, partly open to open, tight infilling with clay. Weathered to a clay along discontinuity, plane up to 5mm penetration	10

Continued on next sheet

Remarks

1) Groundwater ingress encountered at 9.50m rising to 8.50m after 20mins and 7.50m no rise. 2) Terminated at target depth. 3) No visual or olfactory evidence of contamination. 4) Rock strength descriptions are derived from field tests only.





Rotary Core Log

Borehole No.

BH-P2-105

Sheet 3 of 6

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: 380400.32 - 410395.10

Hole Type
CP+RC

Location: Manchester

Level: 88.10

Scale
1:25

Client: Willmott Dixon

Dates: 27/03/2025 -

Logged By
JL

Well	Water Strikes	Depth (m)	Type / FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		10.10 10.10 - 10.20	B SPTLS				10.40	77.70		Very weak, thinly laminated grey MUDSTONE. Discontinuities are sub horizontal to subvertical, closely spaced, planar smooth, undulation rough, weak wall strength, partial open infilled with clay.	
		10.70 - 10.80	C								
		10.80 - 11.30 11.10 - 11.20	74 C	100	63	30	11.00	77.10			11
							11.30	76.80		Very weak, thinly laminated, light grey MUDSTONE. Discontinuities are sub horizontal to subvertical, closely to medium spaced planar smooth, undulating rough, very weak wall strength, partially open and clean. Very weak, thinly laminated, light grey MUDSTONE. Discontinuities are sub horizontal to subvertical, very closely spaced, planar smooth, undulating rough, very weak wall strength, partial open and clean.	
		11.50 - 11.80	C								
		11.30 - 12.80 12.10 - 12.20	28 C	100	64	33					12
							12.80	75.30		Extremely weak, thinly laminated grey MUDSTONE. Discontinuities are sub horizontal to subvertical, very closely, planar rough, undulating rough. Extremely weak strength, partial open and clean.	
		13.10 - 13.25	C								13
		12.80 - 14.30	21	100	77	46					
		14.20 - 14.30	C				14.30	73.80		Extremely weak, thinly laminated, light grey MUDSTONE. Discontinuities are sub horizontal to subvertical. Extremely close, planar smooth, undulating rough, very weak wall strength, partially open and clean.	14
		14.90 - 15.00	C								15

Continued on next sheet

Remarks

1) Groundwater ingress encountered at 9.50m rising to 8.50m after 20mins and 7.50m no rise. 2) Terminated at target depth. 3) No visual or olfactory evidence of contamination. 4) Rock strength descriptions are derived from field tests only.





Rotary Core Log

Borehole No.
BH-P2-105
Sheet 4 of 6
Hole Type
CP+RC
Scale
1:25
Logged By
JL

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: 380400.32 - 410395.10

Location: Manchester

Level: 88.10

Client: Willmott Dixon

Dates: 27/03/2025 -

Well	Water Strikes	Depth (m)	Type / FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		14.30 - 15.80	42	100	79	44	15.80	72.30			16
		15.50 - 15.75	C								
		15.80 - 17.30	67	100	43	14	17.30	70.80		Very weak, thinly laminated, light grey MUDSTONE. Discontinuities are sub horizontal to subvertical, very close, planar rough to undulating smooth, weak wall strength partially open and clean.	17
		17.50 - 17.60	C								
		17.90 - 18.10 17.30 - 18.80	C 52	100	48	22					
		18.60	D								
		18.80 - 20.30 19.40 - 19.50	31 C	80	87	74	18.80	69.30		Extremely weak, thinly laminated, dark greyish black COAL. Discontinuities are sub horizontal, very close, planar rough to undulating smooth, very weak wall strength. Partially open and clean.	19
										Very weak, thinly laminated, light grey MUDSTOE. Discontinuities are sub horizontal to subvertical, very close, planar smooth to undulating smooth, weak wall strength, partially open and clean.	
							20.00	68.10			20
										Continued on next sheet	

Remarks

1) Groundwater ingress encountered at 9.50m rising to 8.50m after 20mins and 7.50m no rise. 2) Terminated at target depth. 3) No visual or olfactory evidence of contamination. 4) Rock strength descriptions are derived from field tests only.





Rotary Core Log

Borehole No.
BH-P2-105
Sheet 5 of 6
Hole Type
CP+RC
Scale
1:25
Logged By
JL

Project Name: Bury Interchange
Location: Manchester
Client: Willmott Dixon
Project No.
TE1885
Co-ords: 380400.32 - 410395.10
Level: 88.10
Dates: 27/03/2025 -

Well	Water Strikes	Depth (m)	Type / FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		20.30	D				20.30	67.80		Hard grey MUDSTONE and siltstone with fractures.	
										Hard grey SANDSTONE	
											21
											22
											23
											24
											25

Remarks
1) Groundwater ingress encountered at 9.50m rising to 8.50m after 20mins and 7.50m no rise. 2) Terminated at target depth. 3) No visual or olfactory evidence of contamination. 4) Rock strength descriptions are derived from field tests only.





Rotary Core Log

Borehole No.
BH-P2-105
Sheet 6 of 6
Hole Type
CP+RC
Scale
1:25
Logged By
JL

Project Name: Bury Interchange
Location: Manchester
Client: Willmott Dixon
Project No. TE1885
Co-ords: 380400.32 - 410395.10
Level: 88.10
Dates: 27/03/2025 -

Well	Water Strikes	Depth (m)	Type / FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
							26.40	61.70		Hard grey fractured MUDSTONE	26
											27
											28
											29
							30.00	58.10		End of borehole at 30.00 m	30

Remarks
1) Groundwater ingress encountered at 9.50m rising to 8.50m after 20mins and 7.50m no rise. 2) Terminated at target depth. 3) No visual or olfactory evidence of contamination. 4) Rock strength descriptions are derived from field tests only.





Borehole Log

Borehole No.
BH-P2-105

Sheet 1 of 6

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: 380400.32 - 410395.10

Hole Type
CP+RC

Location: Manchester

Level: 88.10

Scale
1:25

Client: Willmott Dixon

Dates: 27/03/2025 -

Logged By
JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description			
		Depth (m)	Type	Results							
		0.20	D	N=10 (1,2/2,2,3,3)	0.40	87.70		MADE GROUND: Dark greyish brown, slightly gravelly, slightly clayey SAND. Gravel is subangular to subrounded, fine to medium of brick and mudstone and other mixed lithologies. MADE GROUND	1		
		1.00	D					MADE GROUND: Firm, dark greyish brown, gravelly CLAY. Gravel is fine to coarse, angular to subangular of brick, mudstone and mixed lithologies. MADE GROUND			
		1.20	SPTL								
		1.20	S								
		1.70 - 2.00	B	N=24 (4,5/5,6,6,7)	2.10	86.00		turning stiff at 1.60m	2		
		1.70 - 2.00	ES								
		2.10									
		2.10 - 2.55	SPTL								
		2.40 - 2.80	ES								
		3.00 - 3.05	U	N=50 (8,10/50 for 245mm)	2.90	85.20		Stiff, dark brown, gravelly CLAY. Gravel is fine to coarse, subangular to subrounded of mudstone.	3		
		3.70	D								turning very stiff at 3.60m
		3.70 - 4.00	B								
		4.20									
		4.20 - 4.60	SPTL	4.10	84.00		Very dense, dark greyish brown, clayey GRAVEL. Gravel is angular to subangular, fine to coarse of mudstone.	4			
		4.60 - 4.90	B								
Continued on next sheet								5			

Remarks

1) Groundwater ingress encountered at 9.50m rising to 8.50m after 20mins and 7.50m no rise. 2) Terminated at target depth. 3) No visual or olfactory evidence of contamination. 4) Rock strength descriptions are derived from field tests only.





Borehole Log

Borehole No.
BH-P2-105

Sheet 2 of 6

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: 380400.32 - 410395.10

Hole Type
CP+RC

Location: Manchester

Level: 88.10

Scale
1:25

Client: Willmott Dixon

Dates: 27/03/2025 -

Logged By
JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		5.20		50 (7,8/50 for 220mm)					
		5.20 - 5.60	SPTL S						
		6.50		N=50 (6,9/50 for 275mm)	6.50	81.60			
		6.50 - 6.90	SPTL S					Very stiff, greyish brown, gravelly CLAY. Gravel is angular to subangular, fine to coarse of mudstone.	
		6.90 - 7.20	B						
		8.10		50 (8,11/50 for 220mm)				turning light grey at 7.80m	
		8.10 - 8.50	SPTL S						
		8.50 - 8.70	B					Turning stiff at 8.70m	
		8.70		24 (51 for 115mm/24 for 85mm)					
		8.70 - 8.90	SPTL S						
		9.60		12 (63 for 145mm/12 for 10mm)	9.50	78.60		Very weak, thinly laminated, dark grey MUDSTONE. Discontinuities are sub horizontal to subvertical, very closely to closely spaced, planar smooth, undulating smooth, very weak wall strength, partly open to open, tight infilling with clay. Weathered to a clay along discontinuity, plane up to 5mm penetration	
		9.80 - 9.95	SPTL S						

Continued on next sheet

Remarks

1) Groundwater ingress encountered at 9.50m rising to 8.50m after 20mins and 7.50m no rise. 2) Terminated at target depth. 3) No visual or olfactory evidence of contamination. 4) Rock strength descriptions are derived from field tests only.





Borehole No.
BH-P2-105

Sheet 3 of 6

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: 380400.32 - 410395.10

Hole Type
CP+RC

Location: Manchester

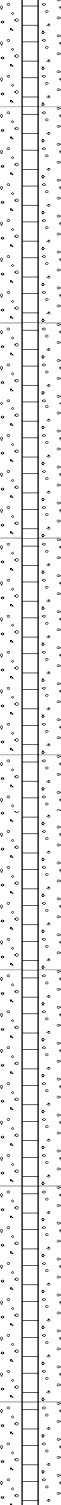
Level: 88.10

Scale
1:25

Client: Willmott Dixon

Dates: 27/03/2025 -

Logged By
JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		10.10 10.10	B	50 (25 for 50mm/50 for 50mm)	10.40	77.70		Very weak, thinly laminated grey MUDSTONE. Discontinuities are sub horizontal to subvertical, closely spaced, planar smooth, undulation rough, weak wall strength, partial open infilled with clay.	
		10.10 - 10.20	SPTL S						
		10.70 - 10.80	C						
		11.10 - 11.20	C		11.00	77.10		Very weak, thinly laminated, light grey MUDSTONE. Discontinuities are sub horizontal to subvertical, closely to medium spaced planar smooth, undulating rough, very weak wall strength, partially open and clean.	11
		11.50 - 11.80	C		11.30	76.80		Very weak, thinly laminated, light grey MUDSTONE. Discontinuities are sub horizontal to subvertical, very closely spaced, planar smooth, undulating rough, very weak wall strength, partial open and clean.	
		12.10 - 12.20	C						12
		13.10 - 13.25	C		12.80	75.30		Extremely weak, thinly laminated grey MUDSTONE. Discontinuities are sub horizontal to subvertical, very closely, planar rough, undulating rough. Extremely weak strength, partial open and clean.	13
		14.20 - 14.30	C		14.30	73.80		Extremely weak, thinly laminated, light grey MUDSTONE. Discontinuities are sub horizontal to subvertical. Extremely close, planar smooth, undulating rough, very weak wall strength, partially open and clean.	14
		14.90 - 15.00	C						15
	Continued on next sheet								

Continued on next sheet

Remarks

1) Groundwater ingress encountered at 9.50m rising to 8.50m after 20mins and 7.50m no rise. 2) Terminated at target depth. 3) No visual or olfactory evidence of contamination. 4) Rock strength descriptions are derived from field tests only.





Borehole Log

Borehole No.
BH-P2-105

Sheet 4 of 6

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: 380400.32 - 410395.10

Hole Type
CP+RC

Location: Manchester

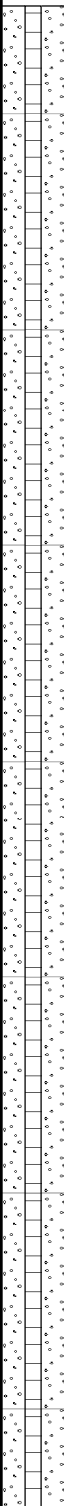
Level: 88.10

Scale
1:25

Client: Willmott Dixon

Dates: 27/03/2025 -

Logged By
JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		15.50 - 15.75	C		15.80	72.30		Very weak, thinly laminated grey MUDSTONE. Discontinuities are sub horizontal to subvertical, extremely close, planar rough, undulating smooth, weak wall strength, partially open infilled with clay.	16
		17.50 - 17.60	C		17.30	70.80		Very weak, thinly laminated, light grey MUDSTONE. Discontinuities are sub horizontal to subvertical, very close, planar rough to undulating smooth, weak wall strength partially open and clean.	17
		17.90 - 18.10	C						18
		18.60	D		18.50	69.60		Extremely weak, thinly laminated, dark greyish black COAL. Discontinuities are sub horizontal, very close, planar rough to undulating smooth, very weak wall strength. Partially open and clean.	19
					18.80	69.30		Very weak, thinly laminated, light grey MUDSTOE. Discontinuities are sub horizontal to subvertical, very close, planar smooth to undulating smooth, weak wall strength, partially open and clean.	
		19.40 - 19.50	C						20
					20.00	68.10		Continued on next sheet	

Remarks

1) Groundwater ingress encountered at 9.50m rising to 8.50m after 20mins and 7.50m no rise. 2) Terminated at target depth. 3) No visual or olfactory evidence of contamination. 4) Rock strength descriptions are derived from field tests only.





Borehole No.
BH-P2-105
Sheet 5 of 6
Hole Type
CP+RC
Scale
1:25
Logged By
JL

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: 380400.32 - 410395.10

Hole Type
CP+RC

Location: Manchester

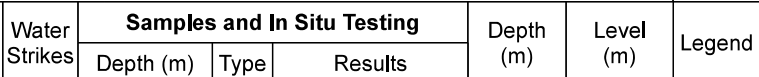
Level: 88.10

Scale
1:25

Client: Willmott Dixon

Dates: 27/03/2025 -

Logged By
JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
		20.30	D		20.30	67.80		Hard grey MUDSTONE and siltstone with fractures.	21	
										
										
								Hard grey SANDSTONE		22
										
										
										
										
										
										
										
		25								
Continued on next sheet										

Continued on next sheet

Remarks
1) Groundwater ingress encountered at 9.50m rising to 8.50m after 20mins and 7.50m no rise. 2) Terminated at target depth. 3) No visual or olfactory evidence of contamination. 4) Rock strength descriptions are derived from field tests only.





Borehole Log

Borehole No.
BH-P2-105
Sheet 6 of 6
Hole Type
CP+RC
Scale
1:25
Logged By
JL

Project Name: Bury Interchange
Location: Manchester
Client: Willmott Dixon
Project No. TE1885
Co-ords: 380400.32 - 410395.10
Level: 88.10
Dates: 27/03/2025 -

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					26.40	61.70		Hard grey fractured MUDSTONE	26
									27
									28
									29
					30.00	58.10		End of borehole at 30.00 m	30

Remarks
1) Groundwater ingress encountered at 9.50m rising to 8.50m after 20mins and 7.50m no rise. 2) Terminated at target depth. 3) No visual or olfactory evidence of contamination. 4) Rock strength descriptions are derived from field tests only.





Rotary Core Log

Borehole No.
BH-P2-106
Sheet 1 of 6
Hole Type
CP+RC
Scale
1:25
Logged By
SE

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: 380376.46 - 410388.10

Location: Manchester

Level: 91.00

Client: Willmott Dixon

Dates: 29/10/2025 -

Well	Water Strikes	Depth (m)	Type / FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		0.40	ES				0.65	90.35		MADE GROUND: Compacted grey, slightly clayey, sandy, fine to coarse, angular to subangular GRAVEL of limestone (railway ballast) and rare plastic MADE GROUND	
		0.80	ES				1.10	89.90		MADE GROUND: Compacted grey and reddish brown, sandy, fine to coarse, angular to subangular GRAVEL of limestone. Sand is fine to medium and reddish brown MADE GROUND <i>trial pit reported to have previously been dug in this area to 1.60m bgl</i>	1
							1.50	89.50		MADE GROUND: Dense, brownish grey, slightly clayey, sandy, fine to coarse, angular to subangular GRAVEL of limestone MADE GROUND <i>Rotary openhole from 1.20m to 3.00m bgl due to dynamic sampler refusing. Dynamic sample from 3.00m to 3.50m bgl, refusal at 3.50m bgl on cobble</i>	
							2.00	89.00		MADE GROUND: Orangish brown, clayey, slightly gravelly, fine grained SAND. Gravel os fine to coarse, angular to subangular of sandstone MADE GROUND	2
							3.00	88.00		MADE GROUND: Dense, orangish brown, clayey, fine to medium grained SAND MADE GROUND	
		3.00 - 3.20	ES				3.50	87.50		POSSIBLE MADE GROUND: Stiff, brownish orange, sandy, gravelly CLAY. Gravel is fine to medium, angular to subangular of sandstone. Rare cobble POSSIBLE MADE GROUND	3
										Brown, sandy, fine to coarse, angular to subrounded GRAVEL of sandstone. Limited recovery	4
										Continued on next sheet	5

Remarks

1) Hand dug pit to 1.20m bgl. 2) No groundwater ingress encountered. 3) Terminated at target depth. 4) No visual or olfactory evidence of contamination. 5) Rock strength descriptions are derived from field tests only.





Rotary Core Log

Borehole No.
BH-P2-106

Sheet 2 of 6

Hole Type
CP+RC

Scale
1:25

Logged By
SE

Project Name: Bury Interchange

Location: Manchester

Client: Willmott Dixon

Project No.
TE1885

Co-ords: 380376.46 - 410388.10

Dates: 29/10/2025 -

Well	Water Strikes	Depth (m)	Type / FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		6.25 - 6.50	D				5.25	85.75		Stiff to very stiff, grey, slightly gravelly CLAY, gravel is fine to medium, angular to subangular of mudstone	6
		8.00 - 9.50 8.70 - 8.92	12 C	83	83	83	8.00	83.00		Extremely weak to very weak, thinly laminated dark grey MUDSTONE. Discontinuities are horizontal to 20°, closely to very closely spaced, planar rough to undulating smooth, wall strength extremely weak, clean infill <i>Rotary coring from 8.00m bgl</i>	8
		9.00 - 9.25	C								9
											10

Remarks

1) Hand dug pit to 1.20m bgl. 2) No groundwater ingress encountered. 3) Terminated at target depth. 4) No visual or olfactory evidence of contamination. 5) Rock strength descriptions are derived from field tests only.





Rotary Core Log

Borehole No.
BH-P2-106

Sheet 3 of 6

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: 380376.46 - 410388.10

Hole Type
CP+RC

Location: Manchester

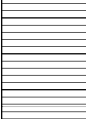
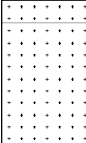
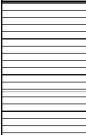
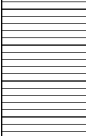
Level: 91.00

Scale
1:25

Client: Willmott Dixon

Dates: 29/10/2025 -

Logged By
SE

Well	Water Strikes	Depth (m)	Type / FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description							
				TCR	SCR	RQD											
		10.00 - 10.19	C				13.14	77.86		Becoming black and extremely weak, recovered as fine to medium, angular gravel between 10.42m and 10.60m bgl	11						
		9.50 - 11.00	>50	100	83	63											
		10.60 - 10.73	C														
		11.12 - 11.20	C														
		11.00 - 12.50	34	100	100	67											
		12.20 - 12.33	C														
		12.67 - 12.92	C														
		13.16 - 13.24	C	100	96	68											
		12.50 - 14.00	25														
		13.24 - 13.48	C														
		13.63	77.37		Medium strong to strong, thinly laminated grey, fine grained SANDSTONE with weathered brown bands / staining from 13.24m bgl. Discontinuities are horizontal to 20°, very closely to closely spaced, planar striated to undulating smooth, wall strength weak to medium strong, clean infill.	14											
					Extremely weak to weak, thinly laminated, grey to dark grey MUDSTONE. Discontinuities are horizontal to 20°, extremely closely to closely spaced, undulating smooth to stepped rough, wall strength extremely weak to weak, clean infill.												
					Weathered clay and gravel sized pieces between 14.00m to 14.17m bgl, 15.00m to 15.65m bgl, 17.15m to 17.25m bgl, 17.47m to 17.50m bgl, 19.00m to 19.19m bgl, 19.88m to 20.00m bgl, 20.14m to 20.25m bgl and 20.39m to 20.51m bgl												
			14.16 - 14.33	C													15
		14.00 - 15.50	27	100	100	56											
Continued on next sheet																	

Remarks

1) Hand dug pit to 1.20m bgl. 2) No groundwater ingress encountered. 3) Terminated at target depth. 4) No visual or olfactory evidence of contamination. 5) Rock strength descriptions are derived from field tests only.





Rotary Core Log

Borehole No.
BH-P2-106

Sheet 4 of 6

Project Name: Bury Interchange	Project No. TE1885	Co-ords: 380376.46 - 410388.10	Hole Type CP+RC
Location: Manchester		Level: 91.00	Scale 1:25
Client: Willmott Dixon		Dates: 29/10/2025 -	Logged By SE

Well	Water Strikes	Depth (m)	Type / FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		15.42 - 15.50	C								
		15.75 - 16.00	C								16
		15.50 - 17.00	33	88	88	50					
		16.90 - 17.00	C								17
		17.16 - 17.23	C								
		17.00 - 18.50	35	100	97	66					18
		18.00 - 18.18	C								
		18.68 - 18.77	C								19
		18.50 - 20.00	34	100	94	49					
		19.67 - 19.74	C								20
										Continued on next sheet	

Remarks
1) Hand dug pit to 1.20m bgl. 2) No groundwater ingress encountered. 3) Terminated at target depth. 4) No visual or olfactory evidence of contamination. 5) Rock strength descriptions are derived from field tests only.





Rotary Core Log

Borehole No.
BH-P2-106

Sheet 5 of 6

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: 380376.46 - 410388.10

Hole Type
CP+RC

Location: Manchester

Level: 91.00

Scale
1:25

Client: Willmott Dixon

Dates: 29/10/2025 -

Logged By
SE

Well	Water Strikes	Depth (m)	Type / FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description		
				TCR	SCR	RQD						
		20.00 - 21.50 20.73 - 20.89	>50 C	100	92	35	20.71	70.29		Medium strong to strong, thinly laminated grey MUDSTONE. Discontinuities are horizontal to 10° occasionally 30°, very closely spaced, planar smooth to undulating striated, wall strength medium string, clean infill	21	
							21.34	69.66		Extremely weak to weak, thinly laminated, grey to dark grey MUDSTONE. Discontinuities are horizontal to 20°, extremely closely to closely spaced, undulating smooth to stepped rough, wall strength extremely weak to weak, clean infill.	22	
		21.70 - 21.81	C				22.32	68.68		Medium strong, thinly laminated, dark grey MUDSTONE. Discontinuities are horizontal to 40°, very closely spaced, planar smooth to undulating striated, wall strength weak, clean infill		
		21.50 - 23.00 22.32 - 22.38	>50 C	89	80	25	22.85	68.15		Extremely weak to weak, black shiny COAL recovered as fine to coarse, angular gravel sized pieces	23	
		22.85 - 23.00	C				23.22 23.28	67.78 67.72		Firm to stiff, dark grey CLAY		
		23.57 - 23.72	C							Medium strong to strong, thinly laminated grey MUDSTONE. Discontinuities are 10° to 50°, very closely to closely spaced, undulating striated to stepped rough, wall strength weak to medium, clean infill	24	
24.00 - 24.27	C											
24.86 - 24.96	C											
Continued on next sheet											25	

Remarks

1) Hand dug pit to 1.20m bgl. 2) No groundwater ingress encountered. 3) Terminated at target depth. 4) No visual or olfactory evidence of contamination. 5) Rock strength descriptions are derived from field tests only.





Rotary Core Log

Borehole No.
BH-P2-106

Sheet 6 of 6

Project Name:	Bury Interchange	Project No.	TE1885	Co-ords:	380376.46 - 410388.10	Hole Type	CP+RC
Location:	Manchester	Level:	91.00	Scale	1:25	Logged By	SE
Client:	Willmott Dixon	Dates:	29/10/2025 -				

Well	Water Strikes	Depth (m)	Type / FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		25.60 - 25.66	C								
		26.16 - 26.36	C								
		27.00 - 27.14	C							weathered / highly fractured to gravel between 26.92m and 27.00m bgl and 27.50m to 27.90m bgl. Limited recovery 27.50m to 27.90m bgl due to split in liner. Medium string from 28.10m to 28.50m bgl	
		28.40 - 28.50	C				28.50	62.50		End of borehole at 28.50 m	

Remarks
1) Hand dug pit to 1.20m bgl. 2) No groundwater ingress encountered. 3) Terminated at target depth. 4) No visual or olfactory evidence of contamination. 5) Rock strength descriptions are derived from field tests only.





Borehole Log

Borehole No.

BH-P2-106

Sheet 1 of 6

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: 380376.46 - 410388.10

Hole Type
CP+RC

Location: Manchester

Level: 91.00

Scale
1:25

Client: Willmott Dixon

Dates: 29/10/2025 -

Logged By
SE

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.40	ES					MADE GROUND: Compacted grey, slightly clayey, sandy, fine to coarse, angular to subangular GRAVEL of limestone (railway ballast) and rare plastic MADE GROUND	
		0.80	ES		0.65	90.35		MADE GROUND: Compacted grey and reddish brown, sandy, fine to coarse, angular to subangular GRAVEL of limestone. Sand is fine to medium and reddish brown MADE GROUND	1
		1.00		N=43 (25 for 85mm/17,8,12,6)	1.10	89.90		<i>trial pit reported to have previously been dug in this area to 1.60m bgl</i> MADE GROUND: Dense, brownish grey, slightly clayey, sandy, fine to coarse, angular to subangular GRAVEL of limestone MADE GROUND	
					1.50	89.50		<i>Rotary openhole from 1.20m to 3.00m bgl due to dynamic sampler refusing. Dynamic sample from 3.00m to 3.50m bgl, refusal at 3.50m bgl on cobble</i> MADE GROUND: Orangish brown, clayey, slightly gravelly, fine grained SAND. Gravel os fine to coarse, angular to subangular of sandstone MADE GROUND	2
		2.00		N=40 (7,8/10,10,10,10)	2.00	89.00		MADE GROUND: Dense, orangish brown, clayey, fine to medium grained SAND MADE GROUND	
		3.00			3.00	88.00		POSSIBLE MADE GROUND: Stiff, brownish orange, sandy, gravelly CLAY. Gravel is fine to medium, angular to subangular of sandstone. Rare cobble POSSIBLE MADE GROUND	3
		3.00 - 3.20	ES		3.50	87.50		Brown, sandy, fine to coarse, angular to subrounded GRAVEL of sandstone. Limited recovery	4
								Continued on next sheet	5

Remarks

1) Hand dug pit to 1.20m bgl. 2) No groundwater ingress encountered. 3) Terminated at target depth. 4) No visual or olfactory evidence of contamination. 5) Rock strength descriptions are derived from field tests only.





Borehole Log

Borehole No.
BH-P2-106

Sheet 2 of 6

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: 380376.46 - 410388.10

Hole Type
CP+RC

Location: Manchester

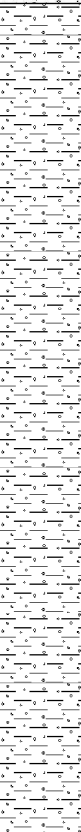
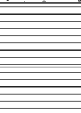
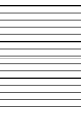
Level: 91.00

Scale
1:25

Client: Willmott Dixon

Dates: 29/10/2025 -

Logged By
SE

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		5.00		50 (3,9/50 for 153mm)	5.25	85.75		Stiff to very stiff, grey, slightly gravelly CLAY, gravel is fine to medium, angular to subangular of mudstone	6
		6.25 - 6.50 6.50	D	N=29 (6,4/6,6,7,10)					7
		8.00		N=50 (6,9/50 for 295mm)	8.00	83.00		Extremely weak to very weak, thinly laminated dark grey MUDSTONE. Discontinuities are horizontal to 20°, closely to very closely spaced, planar rough to undulating smooth, wall strength extremely weak, clean infill <i>Rotary coring from 8.00m bgl</i>	8
		8.70 - 8.92	C						9
		9.00 - 9.25	C						10
								Continued on next sheet	

Remarks

1) Hand dug pit to 1.20m bgl. 2) No groundwater ingress encountered. 3) Terminated at target depth. 4) No visual or olfactory evidence of contamination. 5) Rock strength descriptions are derived from field tests only.





Borehole Log

Borehole No.
BH-P2-106

Sheet 3 of 6

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: 380376.46 - 410388.10

Hole Type
CP+RC

Location: Manchester

Level: 91.00

Scale
1:25

Client: Willmott Dixon

Dates: 29/10/2025 -

Logged By
SE

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		10.00 - 10.19	C						
		10.60 - 10.73	C					Becoming black and extremely weak, recovered as fine to medium, angular gravel between 10.42m and 10.60m bgl	11
		11.12 - 11.20	C						
		12.20 - 12.33	C						12
		12.67 - 12.92	C						
		13.16 - 13.24	C		13.14	77.86		Medium strong to strong, thinly laminated grey, fine grained SANDSTONE with weathered brown bands / staining from 13.24m bgl. Discontinuities are horizontal to 20°, very closely to closely spaced, planar striated to undulating smooth, wall strength weak to medium strong, clean infill.	13
		13.24 - 13.48	C						
		14.16 - 14.33	C		13.63	77.37		Extremely weak to weak, thinly laminated, grey to dark grey MUDSTONE. Discontinuities are horizontal to 20°, extremely closely to closely spaced, undulating smooth to stepped rough, wall strength extremely weak to weak, clean infill. Weathered clay and gravel sized pieces between 14.00m to 14.17m bgl, 15.00m to 15.65m bgl, 17.15m to 17.25m bgl, 17.47m to 17.50m bgl, 19.00m to 19.19m bgl, 19.88m to 20.00m bgl, 20.14m to 20.25m bgl and 20.39m to 20.51m bgl	14
									15

Continued on next sheet

Remarks

1) Hand dug pit to 1.20m bgl. 2) No groundwater ingress encountered. 3) Terminated at target depth. 4) No visual or olfactory evidence of contamination. 5) Rock strength descriptions are derived from field tests only.





Borehole Log

Borehole No.
BH-P2-106
Sheet 4 of 6
Hole Type
CP+RC
Scale
1:25
Logged By
SE

Project Name: Bury Interchange
Location: Manchester
Client: Willmott Dixon
Project No.
TE1885
Co-ords: 380376.46 - 410388.10
Level: 91.00
Dates: 29/10/2025 -

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		15.42 - 15.50	C						
		15.75 - 16.00	C						16
		16.90 - 17.00	C						17
		17.16 - 17.23	C						
		18.00 - 18.18	C						18
		18.68 - 18.77	C						19
		19.67 - 19.74	C						20
Continued on next sheet									

Remarks
1) Hand dug pit to 1.20m bgl. 2) No groundwater ingress encountered. 3) Terminated at target depth. 4) No visual or olfactory evidence of contamination. 5) Rock strength descriptions are derived from field tests only.





Borehole Log

Borehole No.
BH-P2-106

Sheet 5 of 6

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: 380376.46 - 410388.10

Hole Type
CP+RC

Location: Manchester

Level: 91.00

Scale
1:25

Client: Willmott Dixon

Dates: 29/10/2025 -

Logged By
SE

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		20.73 - 20.89	C		20.71	70.29		Medium strong to strong, thinly laminated grey MUDSTONE. Discontinuities are horizontal to 10° occasionally 30°, very closely spaced, planar smooth to undulating striated, wall strength medium strong, clean infill	21
		21.70 - 21.81	C		21.34	69.66		Extremely weak to weak, thinly laminated, grey to dark grey MUDSTONE. Discontinuities are horizontal to 20°, extremely closely to closely spaced, undulating smooth to stepped rough, wall strength extremely weak to weak, clean infill.	22
		22.32 - 22.38	C		22.32	68.68		Medium strong, thinly laminated, dark grey MUDSTONE. Discontinuities are horizontal to 40°, very closely spaced, planar smooth to undulating striated, wall strength weak, clean infill	
		22.85 - 23.00	C		22.85	68.15		Extremely weak to weak, black shiny COAL recovered as fine to coarse, angular gravel sized pieces	23
					23.22	67.78		Firm to stiff, dark grey CLAY	
		23.57 - 23.72	C		23.28	67.72		Medium strong to strong, thinly laminated grey MUDSTONE. Discontinuities are 10° to 50°, very closely to closely spaced, undulating striated to stepped rough, wall strength weak to medium, clean infill	24
		24.00 - 24.27	C						
		24.86 - 24.96	C						25

Continued on next sheet

Remarks

1) Hand dug pit to 1.20m bgl. 2) No groundwater ingress encountered. 3) Terminated at target depth. 4) No visual or olfactory evidence of contamination. 5) Rock strength descriptions are derived from field tests only.





Borehole Log

Borehole No.
BH-P2-106
Sheet 6 of 6
Hole Type
CP+RC
Scale
1:25
Logged By
SE

Project Name: Bury Interchange
Location: Manchester
Client: Willmott Dixon
Project No. TE1885
Co-ords: 380376.46 - 410388.10
Level: 91.00
Dates: 29/10/2025 -

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		25.60 - 25.66	C						
		26.16 - 26.36	C						
		27.00 - 27.14	C					weathered / highly fractured to gravel between 26.92m and 27.00m bgl and 27.50m to 27.90m bgl. Limited recovery 27.50m to 27.90m bgl due to split in liner. Medium string from 28.10m to 28.50m bgl	
		28.40 - 28.50	C		28.50	62.50		End of borehole at 28.50 m	

Remarks
1) Hand dug pit to 1.20m bgl. 2) No groundwater ingress encountered. 3) Terminated at target depth. 4) No visual or olfactory evidence of contamination. 5) Rock strength descriptions are derived from field tests only.

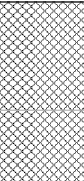
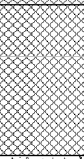
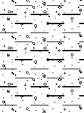




Borehole Log

Borehole No.
BH-P2-107
Sheet 1 of 1
Hole Type
WS
Scale
1:25
Logged By
AP

Project Name: Bury Interchange
Project No. TE1885
Co-ords: 380379.14 - 410390.65
Location: Manchester
Level: 85.98
Client: Willmott Dixon
Dates: 03/11/2024 -

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.40	ES		0.60	85.38		MADE GROUND: Dark grey, angular to subangular, medium to coarse GRAVEL of mixed igneous lithologies. MADE GROUND	
		0.80	ES		0.90	85.08		MADE GROUND: Dark red, fine to coarse SAND MADE GROUND	
		1.20 1.20 1.20	ES SPTL S	N=17 (4,5/4,4,4,5)	1.40	84.58		MADE GROUND: Light grey, slightly sandy, subangular to subrounded, fine to coarse GRAVEL of limestone and mixed natural lithologies. MADE GROUND	1
		1.50	U	Ublow=25				Firm, becoming stiff, dark reddish brown, slightly sandy, slightly gravelly to gravelly CLAY. Gravel is subrounded, fine to medium of mixed natural lithologies.	
		1.70 1.70	SPTL S	50 (4,11/50 for 43mm)	1.80	84.18		Very stiff, dark orangish brown, mottled brownish grey CLAY. Gravel is subangular to subrounded, fine to medium of sandstone and mudstone.	2
					1.99	83.99		End of borehole at 1.99 m	
									3
									4
									5

Remarks
1) Hand dug pit to 1.20m bgl. 2) Water strike at 1.10m bgl. 3) Terminated at SPT refusal. 4) cased to 1.50m 5) Backfilled with bentonite. 6) Rock strength descriptions are derived from field tests only.

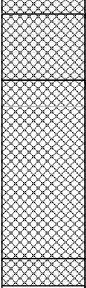




Trial Pit Log

Trialpit No
HDP-P1-115
Sheet 1 of 1

Project Name: Bury Interchange	Project No. TE1885	Co-ords: 380458.14 - 410518.51 Level: 94.35	Date 10/09/2025
Location: Manchester	Dimensions (m): Depth 0.95		Scale 1:25
Client: Willmott Dixon	0.5		Logged AM

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	0.70	ES		0.05 0.27 0.86 0.95	94.30 94.08 93.49 93.40		MADE GROUND: PAVING SLAB MADE GROUND MADE GROUND: Strong, light grey CONCRETE with medium to high aggregate. Aggregate is subangular to angular, fine of mixed natural lithologies MADE GROUND MADE GROUND: Strong, light grey CONCRETE with medium to high aggregate. Aggregate is subangular to angular, fine of mixed natural lithologies. Ø10mm rebar at 0.38m bgl MADE GROUND MADE GROUND: Light grey, sandy, subangular to angular, fine to coarse GRAVEL of limestone and mudstone (subbase). Sand is fine to coarse. MADE GROUND End of pit at 0.95 m
							1 2 3 4 5

Remarks: 1) No groundwater ingress encountered 2) Terminated at required depth 3) No visual or olfactory evidence of contamination 4) Backfilled with arisings

Stability: Stable





Trial Pit Log

Trialpit No
HDP-P2-101
Sheet 1 of 1

Project Name: Bury Interchange	Project No. TE1885	Co-ords: 380412.09 - 410498.37 Level: 86.45	Date 03/11/2024
Location: Manchester	Dimensions (m): Depth 0.80		Scale 1:25
Client: Willmott Dixon			Logged AP

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 0.20	B ES					MADE GROUND: Dark grey, angular to subangular, coarse GRAVEL of mixed igneous lithologies. MADE GROUND	
	0.50 0.60	B ES		0.45	86.00		MADE GROUND: Dark reddish brown and dark red, coarse SAND MADE GROUND	
				0.75 0.80	85.70 85.65		MADE GROUND: CONCRETE MADE GROUND	
							End of pit at 0.80 m	

Remarks: 1) Hand dug pit to 0.80m bgl 2) No groundwater encountered 3) Terminated due to concrete obstruction.

Stability: Unstable





Trial Pit Log

Trialpit No
HDP-P2-102
Sheet 1 of 1

Project Name:	Bury Interchange
---------------	------------------

Project No.
TE1885

Co-ords:	-
Level:	

Date
03/11/2024

Location: Manchester

Dimensions
(m):

1

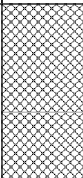
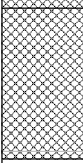
Scale
1:25

Client: Willmott Dixon

Depth
1.10

0.5

Logged
AP

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	0.20	ES		0.60			MADE GROUND: Dark grey, angular to subangular, coarse GRAVEL of mixed igneous lithologies. MADE GROUND
	0.40	B					MADE GROUND: Dark reddish brown and dark red, coarse SAND MADE GROUND
	0.70	ES		1.10			
	0.90	B					
	End of pit at 1.10 m						1
							2
							3
							4
							5

Remarks: 1) Hand dug pit to 1.10m bgl 2) No groundwater encountered 3) Terminated due to pit collapse.

Stability: **Unstable**





Borehole Log

Borehole No.

SA-P2-101

Sheet 1 of 1

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: 380438.29 - 410376.95

Hole Type
WS

Location: Manchester

Level: 86.92

Scale
1:25

Client: Willmott Dixon

Dates: 27/03/2025 -

Logged By
SE

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.12	86.80		MADE GROUND: Grass over brown, slightly clayey, slightly gravelly SAND. Gravel is fine to coarse, angular to subrounded of brick and sandstone. Black terrain layer at base.	
								MADE GROUND	
		0.80	ES		0.75	86.17		MADE GROUND: Dark brown, sandy, gravelly CLAY with low to medium cobble content of subangular to subrounded, brick, sandstone, quartzite and concrete. Gravel is fine to coarse, angular to subrounded of brick, concrete, sandstone and occasional mudstone and timber.	
								MADE GROUND	
								Slight organic odour around 0.60m bgl associated with timber.	
		1.35	ES		1.30	85.62		MADE GROUND: Black, compacted friable, gravelly SAND (weathered asphalt layer). Gravel is fine to medium, angular to subangular of asphalt and occasional limestone. Slight hydrocarbon odour.	
		1.55	ES		1.50	85.42		MADE GROUND	
					1.65	85.27		MADE GROUND: Sandy, slightly ashy, gravelly of fine to coarse, subangular to subrounded of mixed lithologies including sandstone, quartzite, occasional brick and slag.	
								MADE GROUND	
								Wet around 1.40m to 1.50m bgl	
								MADE GROUND: Stiff / friable, orangish brown, sandy, slightly gravelly CLAY. Gravel is fine to coarse, subangular of brick, limestone, sandstone, quartzite and rare cobbles of brick	
					2.30	84.62		MADE GROUND	
								Stiff / friable orangish brown, mottled yellowish brown, sandy, gravelly CLAY. Gravel is fine to medium, subangular of sandstone.	
								End of borehole at 2.30 m	

Remarks

1) Groundwater ingress encountered as seepage from 1.40m to 1.50m bgl 2) Terminated at max reach of excavator in stiff material 3) Hydrocarbon odour between 0.75m to 1.30m. Organic odour associated with timber at 0.60m. 4) Backfilled with gravel.





Trial Pit Log

Trialpit No
TP-P2-102
Sheet 1 of 1

Project Name: Bury Interchange	Project No. TE1885	Co-ords: 380390.22 - 410327.62 Level: 86.30	Date 27/03/2025
Location: Manchester	Dimensions (m): Depth 2.20		Scale 1:25
Client: Willmott Dixon			Logged SE

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES					MADE GROUND: Grass over, dark brown, clayey, sandy GRAVEL of mixed lithologies including fine to coarse, angular to subrounded of brick, concrete, sandstone, rare plastic and occasional wiring. Black terrain at base. MADE GROUND	
	0.60 0.60	B ES		0.55	85.75		MADE GROUND: Dark brownish black, slightly clayey, sandy GRAVEL of fine to coarse, angular to subangular mixed lithologies including brick, sandstone, concrete, quartzite and occasional ash/slag. MADE GROUND	
	1.10 1.10	B ES	HVR=150 HVR=130 HVR=150 HVR=150	1.00	85.30		Stiff, dark greyish brown, slightly sandy, slightly gravelly CLAY. Gravel is fine to coarse, subangular to subrounded of sandstone and quartzite. Occasional cobbles of sandstone from 1.00m bgl. TILL	1
				2.20	84.10		End of pit at 2.20 m	2
								3
								4
								5

Remarks: 1) No groundwater ingress encountered 2) Terminated due to slow progress in stiff clay 3) Occasional ash / slag in MG 0.55m to 1.00m bgl 4) Backfilled with arisings in approximate order of excavation.

Stability: Stable





Trial Pit Log

Trialpit No
TP-P2-101
Sheet 1 of 1

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: 380374.33 - 410329.04
Level: 88.06

Date
01/04/2025

Location: Manchester

Dimensions (m):

Depth
1.00

Scale
1:25
Logged
JL

Client: Willmott Dixon

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.30	ES		0.40	87.66		MADE GROUND: Dark brown, slightly silty, gravelly SAND. Sand is fine to medium, gravel is subrounded to rounded, fine to coarse of mudstone, brick and plastic. Moderate organic content. Turning light brown at 0.40m MADE GROUND	
	0.40 - 1.00 0.70	B ES		1.00	87.06		MADE GROUND: Light brown, sandy GRAVEL. Sand is fine to medium. Gravel is subrounded to subangular, fine to coarse of mudstone, brick and other lithologies. MADE GROUND	
							End of pit at 1.00 m	1
								2
								3
								4
								5

Remarks: 1) No groundwater ingress encountered 2) Terminated due to hard digging 3) Backfilled with arisings in approximate order of excavation.

Stability: Stable





Trial Pit Log

Trialpit No
TP-P2-103
Sheet 1 of 1

Project Name: Bury Interchange	Project No. TE1885	Co-ords: 380382.74 - 410361.09 Level: 88.33	Date 01/04/2025
Location: Manchester	Dimensions (m): Depth 1.10		Scale 1:25
Client: Willmott Dixon			Logged JL

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.20	ES					MADE GROUND: Light brown, slightly silty, gravelly SAND. Sand is fine to medium, gravel is subangular to subrounded, fine to coarse concrete, brick, mudstone and plastic. MADE GROUND	
	0.50 - 1.10 0.90	B ES		0.50 1.10	87.83 87.23		MADE GROUND: Light greyish brown, sandy GRAVEL. Sand is fine to medium, gravel is fine to coarse, subangular to subrounded of brick, concrete, mudstone and other lithologies. MADE GROUND	1
							End of pit at 1.10 m	2
								3
								4
								5

Remarks: 1) No groundwater ingress encountered 2) Terminated due to hard digging 3) Backfilled with arisings in approximate order of excavation.

Stability:





Trial Pit Log

Trialpit No
TP-P2-104
Sheet 1 of 1

Project Name: Bury Interchange	Project No. TE1885	Co-ords: 380396.85 - 410351.37 Level: 86.99	Date 27/03/2025
Location: Manchester	Dimensions (m): Depth 2.30		Scale 1:25
Client: Willmott Dixon	2.3		Logged JL + AM

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.20	ES					MADE GROUND: Grass over dark brown, sandy, slightly gravelly CLAY. Gravel is fine to coarse, angular to subrounded of brick, sandstone and quartzite. Frequent roots and rootlets. MADE GROUND	
	0.80 0.80	B ES		0.70	86.29		MADE GROUND: Dark greyish brown, sandy, gravelly CLAY. Gravel is fine to coarse, angular to subrounded of brick, sandstone and rare glass. MADE GROUND	1
				1.60	85.39		Brick wall and concrete paving slabs at 1.40m to 1.60m	
			HVR=150 HVR=130	2.30	84.69		Firm to stiff, dark grey, slightly sandy, slightly gravelly CLAY. Gravel is fine to medium, subangular to subrounded of quartzite. TILL Occasional cobbles of sandstone from 2.00m	2
							End of pit at 2.30 m	3
								4
								5

Remarks: 1) No groundwater ingress encountered 2) Terminated due to slow progress 3) No visual or olfactory evidence of contamination 4) Backfilled with arisings in approximate order of excavation.

Stability: Stable





Trial Pit Log

Trial pit No
TP-P2-106
Sheet 1 of 1

Project Name: Bury Interchange	Project No. TE1885	Co-ords: 380405.92 - 410371.66 Level: 85.24	Date 27/03/2025
Location: Manchester	Dimensions (m): Depth 1.50 0.8 1.5		Scale 1:25
Client: Willmott Dixon			Logged SE

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES		0.27	84.97		MADE GROUND: Grass over dark brown, sandy, gravelly CLAY. Gravel is fine to medium, subangular to subrounded of brick, sandstone, quartzite and rare glass and metal. Occasional roots and rootlets. (TOPSOIL)	
	0.70 0.70	B ES	HVR=88 HVR=106 HVR=72 HVR=104 HVR=150 HVR=146	1.50	83.74		MADE GROUND Firm, brownish grey CLAY with occasional subrounded cobbles of sandstone. TILL	1
							End of pit at 1.50 m	2
								3
								4
								5

Remarks: 1) No groundwater ingress encountered 2) Terminated at max reach of excavator 3) No visual or olfactory evidence of contamination 4) Backfilled with arisings in approximate order of excavation.

Stability: Stable





Trial Pit Log

Trialpit No
TP-P2-107
Sheet 1 of 1

Project Name: Bury Interchange	Project No. TE1885	Co-ords: 380396.74 - 410378.27 Level: 83.57	Date 26/03/2025
Location: Manchester	Dimensions (m): Depth 1.00		Scale 1:25
Client: Willmott Dixon			Logged AM

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.00 - 0.40	ES		0.40	83.17		MADE GROUND: Firm, dark grey, gravelly, silty CLAY with moderate cobble content. Gravel is fine to coarse, angular to subangular of brick, clinker, sandstone, mudstone and quartzite MADE GROUND	
	0.50 - 1.00 0.50 - 1.00	B ES		1.00	82.57		Orangish brown, slightly sandy, very clayey GRAVEL. Sand is fine to coarse, gravel is fine to coarse, subrounded of mudstone and sandstone. TILL	
							End of pit at 1.00 m	1
								2
								3
								4
								5

Remarks: 1) No groundwater ingress encountered 2) Terminated due to service 3) No visual or olfactory evidence of contamination 4) Backfilled with arisings in approximate order of excavation.

Stability:





Trial Pit Log

Trialpit No
TP-P2-108
Sheet 1 of 1

Project Name: Bury Interchange	Project No. TE1885	Co-ords: 380451.71 - 410385.59 Level: 90.34	Date 27/03/2025
Location: Manchester	Dimensions (m): Depth 3.00 2.6 0.8		Scale 1:25
Client: Willmott Dixon			Logged SE

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.20	ES					MADE GROUND: Dark brown, sandy, slightly gravelly CLAY. Gravel is fine to coarse, angular to subangular of brick and sandstone. Large boulder of brick at 0.40m bgl. occasional cobbles of sandstone below. Boulder of concrete in eastern pit wall between 1.20m to 1.60m bgl. MADE GROUND	1
	1.60	B		1.60	88.74		MADE GROUND: Firm / friable dark brown, mottled orangish brown, sandy, slightly gravelly CLAY. Gravel is fine to coarse, angular of brick and sandstone. Rare fabric and whole bricks. MADE GROUND	2
	2.40	ES		2.35	87.99		Damp, blackish dark grey, sandy SILT with slight organic odour. <i>Pocket of damp black sandy SILT / CLAY in south east corner at 2.40m</i>	
				2.60	87.74		Stiff, dark brownish grey, slightly sandy, slightly gravelly CLAY. Gravel is fine to coarse, subangular to subrounded of sandstone and quartzite. Occasional cobbles of sandstone and quartzite. TILL	3
				3.00	87.34		End of pit at 3.00 m	5

Remarks: 1) No groundwater ingress encountered 2) Terminated due to slow progress in stiff clay 3) Slight organic odour between 2.35m to 2.60m bgl 4) Backfilled with arisings in approximate order of excavation.

Stability: Stable





Borehole Log

Borehole No.
WS-P2-101

Sheet 1 of 1

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: 380335.29 - 410392.49

Hole Type
WS

Location: Manchester

Level: 92.02

Scale
1:25

Client: Willmott Dixon

Dates: 28/03/2025 -

Logged By
AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10			0.10	91.92		MADE GROUND: Orangish brown granite PAVING	1
								MADE GROUND	
								MADE GROUND: Light grey CONCRETE. 10-15mm rebar	
								MADE GROUND	
								MADE GROUND: Dark grey, clayey, sandy GRAVEL. Sand is fine to coarse, gravel is angular to subangular, fine to coarse of sandstone and limestone (subbase)	
		0.45 - 0.60	ES		0.42	91.60			
					0.60	91.42			
		0.80 - 1.20	ES						
		1.20	D						
		1.20	SPTL						
		1.20	S	N=39 (3,3/3,6,9,21)					
		1.70	D						
		1.70	SPTL						
		1.70	S	24 (25,26/24 for 70mm)	1.92	90.10			
								End of borehole at 1.92 m	2
									3
									4
									5

Remarks

1) Hand dug pit to 1.20m bgl 2) No groundwater ingress encountered 3) Terminated on refusal 4) No visual or olfactory evidence of contamination 5) Backfilled with arisings.





Borehole Log

Borehole No.
WS-P2-102

Sheet 1 of 1

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: 380325.43 - 410378.89

Hole Type
WS

Location: Manchester

Level: 92.50

Scale
1:25

Client: Willmott Dixon

Dates: 28/03/2025 -

Logged By
AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10			0.10	92.40		MADE GROUND: Orangish brown granite PAVING	1
					0.43	92.07		MADE GROUND	
								MADE GROUND: Light grey CONCRETE. 10-15mm rebar	
								MADE GROUND	
		0.50 - 1.00	ES					MADE GROUND: Stiff becoming very stiff, greyish brown, very gravelly, slightly sandy, silty CLAY. Sand is medium to coarse, gravel is angular to subrounded, fine to coarse of brick, mudstone, coal and clinker. Moderate cobble content of brick and concrete.	
		1.20	SPTL						
		1.20	S	50 (25 for 50mm/50 for 20mm)	1.28	91.22			
		1.27	SPTL						
		1.27	S	50 (25 for 20mm/50 for 10mm)					
								End of borehole at 1.28 m	
									2
									3
									4
									5

Remarks

1) Hand dug pit to 1.20m bgl 2) No groundwater ingress encountered 3) Terminated on refusal 4) No visual or olfactory evidence of contamination 5) Backfilled with arisings.





Borehole Log

Borehole No.
WS-P2-103
Sheet 1 of 1
Hole Type
WS
Scale
1:25
Logged By
AM

Project Name: Bury Interchange
Location: Manchester
Client: Willmott Dixon
Project No. TE1885
Co-ords: 380362.31 - 410381.31
Level: 82.08
Dates: 28/03/2025 -

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
								MADE GROUND: Light grey CONCRETE MADE GROUND	
		0.55 - 1.00	ES		0.55	81.53		MADE GROUND: Firm, orangish brown, slightly sandy, very gravelly CLAY. Sand is fine to coarse, gravel is fine to coarse, subangular to subrounded of mudstone, limestone, concrete and sandstone MADE GROUND	1
		1.20 1.20 1.20	D SPTL S	N=11 (2,3/3,2,3,3)					
		2.00 2.00 2.00	D SPTL S	N=10 (2,3/3,2,2,3)					2
					2.95	79.13		End of borehole at 2.95 m	3
									4
									5

Remarks
1) Hand dug pit to 1.20m bgl 2) Groundwater ingress encountered at ground level flowing out at surface. 3) Terminated on refusal 4) No visual or olfactory evidence of contamination 5) Backfilled with bentonite





Probe Log

Borehole No.
WS-P2-103 DP

Sheet 1 of 1

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: 380362.31 - 410381.31

Hole Type
DP

Location: Manchester

Level: 82.08

Scale
1:25

Client: Willmott Dixon

Dates: 28/03/2025 -

Logged By

Depth (m)	Blows/100mm				Torque (Nm)
	10	20	30	40	
1					
2					
3	3 3 3 3 3 3 3 3 2 3 3 7 8 10 23				
4		17			
5					

Remarks
DP FOLLOW ON

Fall Height

Cone Base Diameter

Hammer Wt

Final Depth 3.90

Probe Type DPSH-B

Log Scale 1:25





Borehole Log

Borehole No.
WS-P2-104

Sheet 1 of 1

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: 380406.74 - 410394.51

Hole Type
WS

Location: Manchester

Level: 88.10

Scale
1:25

Client: Willmott Dixon

Dates: 26/03/2025 -

Logged By
AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.00 - 0.20	ES		0.20	87.90		MADE GROUND: Soft, dark brown, slightly gravelly, very sandy CLAY. Sand is fine to medium, gravel is medium to coarse, subangular of brick, glass, ceramic and quartzite MADE GROUND	
		1.20 1.20 1.20 1.00 - 1.50	D SPTL S ES	8 (1,1/8 for 225mm)				MADE GROUND: Firm, dark grey, gravelly, silty CLAY with moderate cobble content. Gravel is fine to coarse, angular to subangular of brick, clinker, sandstone, mudstone and quartzite MADE GROUND	
								Rare wood fragments between 1.50m and 1.80m	
		2.00 2.00 2.00	D SPTL S	N=14 (4,4/5,3,3,3)	2.30	85.80		MADE GROUND: Medium dense, light orangish brown, clayey, sandy GRAVEL. Sand is medium to coarse. Gravel is fine to coarse, angular of brick. MADE GROUND	
		2.50 - 2.90	ES		2.90	85.20		Stiff, dark brown, gravelly CLAY. Gravel is fine to coarse, subangular to subrounded of quartzite, sandstone and coal TILL	
		3.00 3.00 3.00	D SPTL S	N=33 (5,6/7,7,9,10)					
		3.50 3.50	SPTL S	50 (15 for 145mm/50 for 155mm)					
		3.50 - 3.90 3.50 - 3.90	D ES		3.90	84.20		End of borehole at 3.90 m	

Remarks

1) Hand dug pit to 1.20m bgl 2) Water strike at 1.80m no rise after 20mins. 3) Terminated on refusal 4) No visual or olfactory evidence of contamination 5) Backfilled with arisings.





Borehole Log

Borehole No.
WS-P2-105B

Sheet 1 of 1

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: -

Hole Type
WS

Location: Manchester

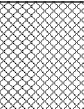
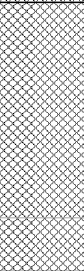
Level:

Scale
1:25

Client: Willmott Dixon

Dates: 27/03/2025 -

Logged By
AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.36			MADE GROUND: Soft, dark brown, slightly gravelly, very sandy CLAY. Sand is fine to medium, gravel is medium to coarse, subangular of brick, glass, ceramic and quartzite	1
								MADE GROUND MADE GROUND: Very dense, black, very sandy GRAVEL. Sand is fine to coarse, gravel is fine to medium, angular to subangular of coal, mudstone and clinker. MADE GROUND	
		1.20 1.20 1.20	D SPTL S	50 (25 for 30mm/50 for 20mm)	1.25				
								End of borehole at 1.25 m	2
									3
									4
									5

Remarks

1) Hand dug pit to 1.20m bgl 2) No groundwater ingress encountered 3) Terminated on refusal 4) No visual or olfactory evidence of contamination 5) Backfilled with arisings.





Borehole Log

Borehole No.
WS-P2-105C

Sheet 1 of 1

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: -

Hole Type
WS

Location: Manchester

Level:

Scale
1:25

Client: Willmott Dixon

Dates: 27/03/2025 -

Logged By
AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.00 - 0.30	ES	51 (10,18/51 for 225mm)	0.56			MADE GROUND: Soft, dark brown, slightly gravelly, very sandy CLAY. Sand is fine to medium, gravel is medium to coarse, subangular of brick, glass, ceramic and quartzite MADE GROUND	1
		0.50 - 0.70	ES					MADE GROUND: Very dense, black, very sandy GRAVEL. Sand is fine to coarse, gravel is fine to medium, angular to subangular of coal, mudstone and clinker. MADE GROUND	
		1.20 1.20 1.20	D SPTL S						
					1.55			End of borehole at 1.55 m	2
									3
									4
									5

Remarks

1) Hand dug pit to 1.20m bgl 2) No groundwater ingress encountered 3) Terminated on refusal 4) No visual or olfactory evidence of contamination 5) Backfilled with arisings 6) DP FOLLOW ON





Borehole Log

Borehole No.
WS-P2-106

Sheet 1 of 1

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: 380429.74 - 410396.46

Hole Type
WS

Location: Manchester

Level: 90.61

Scale
1:25

Client: Willmott Dixon

Dates: 27/03/2025 -

Logged By
AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.00 - 0.30	ES					MADE GROUND: Firm, locally soft, dark brown, slightly sandy, very gravelly CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subangular of slag, clinker and glass. Cobble is of sandstone and brick. MADE GROUND	1
		0.70 - 1.00	ES						
		1.20 1.20 1.20	D SPTL S	N=10 (3,2/2,2,3,3)	1.60	89.01			
		1.70 - 2.00	ES					MADE GROUND: Stiff, dark grey, gravelly, silty CLAY. Gravel is fine to coarse, angular to subangular of limestone, brick, clinker and quartzite. Rare vegetation throughout. MADE GROUND	2
		2.00 2.00 2.00	D SPTL S	N=18 (2,2/4,5,4,5)					
		3.00 3.00 3.00	D SPTL S	N=50 (5,9/50 for 295mm)	3.40	87.21			3
								End of borehole at 3.40 m	4
									5

Remarks

1) Hand dug pit to 1.20m bgl 2) No groundwater ingress encountered 3) Terminated on refusal 4) No visual or olfactory evidence of contamination 5) Installed and backfilled





Borehole Log

Borehole No.
WS-P2-107

Sheet 1 of 1

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: 380432.10 - 410383.15

Hole Type
WS

Location: Manchester

Level: 87.46

Scale
1:25

Client: Willmott Dixon

Dates: 27/03/2025 -

Logged By
AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.30 - 0.50	ES					MADE GROUND: Soft, dark brown, slightly gravelly, very sandy CLAY. Sand is fine to medium, gravel is medium to coarse, subangular of brick, glass, ceramic and quartzite MADE GROUND	1
		1.20 1.20 1.20	D SPTL S	N=50 (12,8/50 for 275mm)	1.10	86.36		MADE GROUND: Stiff, dark brown, slightly gravelly, very sandy CLAY with low cobble content. Sand is coarse. Gravel is fine to coarse, subangular to angular of sandstone, coal, brick and clinker. Cobble is of sandstone. MADE GROUND	
		2.00 2.00 2.00	D SPTL S	N=16 (2,3/3,3,4,6)	2.20	85.26		Firm becoming stiff, dark brown, slightly gravelly CLAY. Gravel is fine to medium, subangular to subrounded of quartzite, mudstone and coal. TILL	2
		2.20 - 2.50	ES						
		2.60 2.70	SPTL S	N=37 (6,8/9,9,9,10)	2.60	84.86		End of borehole at 2.60 m	3
									4
									5

Remarks

1) Hand dug pit to 1.20m bgl 2) No groundwater ingress encountered 3) Terminated on refusal 4) No visual or olfactory evidence of contamination 5) Installed and backfilled





Probe Log

Borehole No.
WS-P2-107 DP

Sheet 1 of 1

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: 380432.10 - 410383.15

Hole Type
DP

Location: Manchester

Level: 87.46

Scale
1:25

Client: Willmott Dixon

Dates: -

Logged By

Depth (m)	Blows/100mm				Torque (Nm)
	10	20	30	40	
1					
2					
3					
4	5				
	10				
	10				
	13				
	14				
	16				
	20				
5					

Remarks
DP FOLLOW ON

Fall Height

Cone Base Diameter

Hammer Wt

Final Depth 3.80

Probe Type DPSH-B

Log Scale 1:25





Borehole Log

Borehole No.
WS-P2-109A

Sheet 1 of 1

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: 380458.82 - 410368.75

Hole Type
WS

Location: Manchester

Level: 86.88

Scale
1:25

Client: Willmott Dixon

Dates: 26/03/2025 -

Logged By
AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.00 - 0.28	ES		0.28	86.60		MADE GROUND: Soft, dark brown, gravelly CLAY. Gravel is medium to coarse, subangular to subrounded of quartzite, mudstone and brick. Frequent roots and rootlets (TOPSOIL)	
					0.80	86.08		MADE GROUND MADE GROUND: Friable, dark brown, slightly sandy, very gravelly CLAY. Sand is fine to coarse, gravel is fine to coarse, subangular to angular of brick, concrete, mudstone, quartzite, slag, clinker and glass. Rare metal fragments. MADE GROUND ----- End of borehole at 0.80 m	
									1
									2
									3
									4
									5

Remarks

1) Hand dug pit to 0.80m bgl 2) No groundwater ingress encountered 3) Terminated on concrete cobble 4) No visual or olfactory evidence of contamination 5) Backfilled with arisings.





Borehole Log

Borehole No.
WS-P2-109B
Sheet 1 of 1
Hole Type
WS
Scale
1:25
Logged By
AM

Project Name: Bury Interchange
Project No. TE1885
Co-ords: 380459.37 - 410368.28
Location: Manchester
Level: 86.91
Client: Willmott Dixon
Dates: 26/03/2025 -

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.50 - 0.70	ES		0.76	86.15		MADE GROUND: Friable, dark brown, slightly sandy, very gravelly CLAY. Sand is fine to coarse, gravel is fine to coarse, subangular to angular of brick, concrete, mudstone, quartzite, slag, clinker and glass. Rare metal fragments. MADE GROUND	
								End of borehole at 0.76 m	1
									2
									3
									4
									5

Remarks
1) Hand dug pit to 0.76m bgl 2) No groundwater encountered 3) Terminated on concrete cobble 4) No visual or olfactory evidence of contamination 5) Backfilled with arisings.





Borehole Log

Borehole No.
WS-P2-109C

Sheet 1 of 1

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: 380460.49 - 410368.55

Hole Type
WS

Location: Manchester

Level: 86.92

Scale
1:25

Client: Willmott Dixon

Dates: 26/03/2025 -

Logged By
AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.15	86.77		MADE GROUND: Soft, dark brown, gravelly CLAY. Gravel is medium to coarse, subangular to subrounded of quartzite, mudstone and brick. Frequent roots and rootlets (TOPSOIL)	
					0.62	86.30		MADE GROUND MADE GROUND: Friable, dark brown, slightly sandy, very gravelly CLAY. Sand is fine to coarse, gravel is fine to coarse, subangular to angular of brick, concrete, mudstone, quartzite, slag, clinker and glass. Rare metal fragments. MADE GROUND End of borehole at 0.62 m	
									1
									2
									3
									4
									5

Remarks

1) Hand dug pit to 0.62m bgl 2) No groundwater ingress encountered 3) Terminated on concrete cobble 4) No visual or olfactory evidence of contamination 5) Backfilled with arisings.





Borehole Log

Borehole No.
WS-P2-109D

Sheet 1 of 1

Hole Type
WS

Scale
1:25

Logged By
AM

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: 380451.66 - 410374.45

Location: Manchester

Level: 86.80

Client: Willmott Dixon

Dates: 26/03/2025 -

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.38	86.42		MADE GROUND: Friable, dark brown, slightly sandy, very gravelly CLAY. Sand is fine to coarse, gravel is fine to coarse, subangular to angular of brick, concrete, mudstone, quartzite, slag, clinker and glass. Rare metal fragments. MADE GROUND	
								End of borehole at 0.38 m	
									1
									2
									3
									4
									5

Remarks

1) Hand dug pit to 0.38m bgl 2) No groundwater ingress encountered 3) Terminated on concrete cobble 4) No visual or olfactory evidence of contamination 5) Backfilled with arisings.





Borehole Log

Borehole No.
WS-P2-109E

Sheet 1 of 1

Hole Type
WS

Scale
1:25

Logged By
AM

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: 380455.11 - 410372.82

Location: Manchester

Level: 86.94

Client: Willmott Dixon

Dates: 26/03/2025 -

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.12			0.12	86.82		MADE GROUND: Soft, dark brown, gravelly CLAY. Gravel is medium to coarse, subangular to subrounded of quartzite, mudstone and brick. Frequent roots and rootlets (TOPSOIL)	
		0.30 - 0.50	ES					MADE GROUND MADE GROUND: Friable, dark brown, slightly sandy, very gravelly CLAY with moderate cobble content. Gravel is fine to coarse, subangular to angular of mudstone, concrete, coal, slag, clinker, sandstone and glass. Cobble is of brick and concrete. MADE GROUND <i>Large concrete cobble at 0.60m</i>	
		1.10 - 1.30	ES		1.10	85.84		MADE GROUND: Medium dense, black, slightly clayey, very sandy GRAVEL. Sand is medium to coarse, gravel is fine to medium, angular to subangular of coal and sandstone.	
		1.20	D					MADE GROUND	
		1.20	SPTL					<i>Wood with strong hydrocarbon odour.</i>	
		1.20	S	N=18 (4,10/9,5,2,2)					
		1.30 - 1.50	ES						
		2.00	D						
		2.00	SPTL		2.20	84.74		MADE GROUND: Stiff, dark brown mottled orange, slightly gravelly CLAY, gravel is fine to coarse, subrounded of brick and mudstone.	
		2.00	S	N=23 (3,4/6,6,5,6)				MADE GROUND	
		2.70	D						
		2.70	SPTL						
		2.70	S	50 (10,10/50 for 210mm)	2.90	84.04	Light grey mottled orange cobble of SANDSTONE		
		2.50 - 3.00	ES		3.20	83.74	TILL		
End of borehole at 3.20 m									
									4
									5

Remarks

1) Hand dug pit to 1.20m bgl 2) No groundwater ingress encountered 3) Terminated on refusal 4) Hydrocarbon odour between 1.30m and 2.00m 5) Installed and backfilled.





Borehole Log

Borehole No.
WS-P2-110

Sheet 1 of 1

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: 380461.94 - 410381.18

Hole Type
WS

Location: Manchester

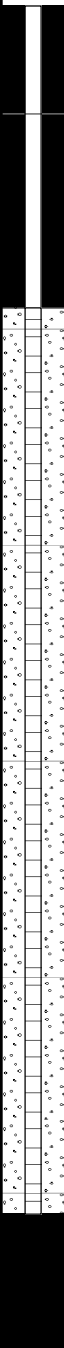
Level: 89.70

Scale
1:25

Client: Willmott Dixon

Dates: 28/03/2025 -

Logged By
AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.30 - 0.50	ES					MADE GROUND: Stiff locally soft, dark brown, slightly sandy, very gravelly CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subangular of slag, clinker and glass. Cobble is of sandstone and brick. MADE GROUND	1
		1.20 1.20 1.20 1.30 - 1.50	D SPTL S ES	N=6 (1,2/2,1,2,1)					
		2.00 2.00 2.00	D SPTL S	N=22 (5,10/11,5,3,3)					2
		2.70			2.70	87.00			
		3.00 3.00 3.00	D SPTL S	N=31 (8,8/9,9,7,6)	3.00	86.70		MADE GROUND: Medium dense, black, very sandy GRAVEL. Sand is fine to coarse, gravel is fine to medium, angular to subangular of coal, mudstone and clinker. MADE GROUND Stiff, dark brown, slightly gravelly CLAY. Gravel is fine to medium, subangular to subrounded of quartzite, mudstone, brick and coal. MADE GROUND	3
		3.70 3.70 3.70	D SPTL S	52 (8,8/52 for 215mm)					4
		4.45			4.45	85.25		End of borehole at 4.45 m	5

Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater ingress encountered at 3.70m bgl no rise in 10mins 3) Terminated on refusal 4) No visual or olfactory evidence of contamination 5) Installed and backfilled.





Borehole Log

Borehole No.
WS-P2-111

Sheet 1 of 1

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: 380379.58 - 410373.25

Hole Type
WS

Location: Manchester

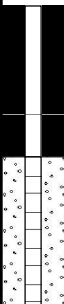
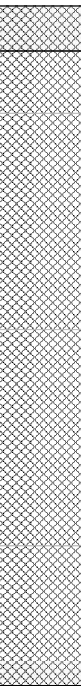
Level: 81.67

Scale
1:25

Client: Willmott Dixon

Dates: 26/03/2025 -

Logged By
AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.15 - 0.30	ES		0.15	81.52		MADE GROUND: Black ASPHALT MADE GROUND	
		1.20 1.20	SPTL S	N=18 (3,4/6,5,3,4)				MADE GROUND: Medium dense to dense, light grey, sandy GRAVEL. Sand is fine to coarse, gravel is fine to coarse subangular of limestone (sub-base) MADE GROUND	
		2.00 2.00 2.00	D SPTL S	50 (25 for 80mm/50 for 145mm)	2.25	79.42			
								End of borehole at 2.25 m	

Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater ingress encountered at 0.60m, no rise after 10mins 3) Terminated on refusal 4) No visual or olfactory evidence of contamination 5) Installed and backfilled

