GROUNDTECH CONSULTING

Borehole Log

Borehole No. **WS01**

Sheet 1 of 1

Project Name:	BRUNSWICK MILL	Project No. GRO-22462	Co-ords:	385776.00 - 398657.20	Hole Type WS
Location:	MANCHESTER		Level:	53.59	Scale 1:25
Client:	ARROWSMITH PROPERTY INVESTMENTS		Dates:	04/05/2023 -	Logged By JR

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.10	ES		0.20	53.39		MADE GROUND: Brown gravelly medium to coarse sand with a moderate cobble content of brick. Gravel is angular to subrounded fine to coarse of mixed lithologies including brick, concrete, ceramics, sandstone and wood. End of borehole at 0.20 m

1
2
3
4
5

Remarks

1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 0.2m bgl. 3. No groundwater encountered. 4. Borehole terminated due to concrete obstruction. 5. Backfilled with arisings.

Borehole Log

GROUNDTECH CONSULTING

Borehole No. **WS01A** Sheet 1 of 1

Project Name: BRUNSWICK MILL	Project No. GRO-22462	Co-ords: 385776.70 - 398658.80	Hole Type WS
Location: MANCHESTER		Level: 53.55	Scale 1:25
Client: ARROWSMITH PROPERTY INVESTMENTS		Dates: 04/05/2023 -	Logged By JR

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.50	ES					MADE GROUND: Brown gravelly medium to coarse sand with a moderate cobble content of brick and sandstone and a faint hydrocarbon odour. Gravel is angular to subrounded fine to coarse of mixed lithologies including brick, concrete, fabric, sandstone and wood.
								Becoming black at 0.7m bgl.
		1.00	ES					
		1.20		N=50 (3,5/50 for 60mm)				
					1.65	51.90		End of borehole at 1.65 m

1
2
3
4
5

Remarks
1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 1.2m bgl. 3. No groundwater encountered. 4. Borehole terminated due to refusal. 5. Backfilled with arisings.

GROUNDTECH CONSULTING

Borehole Log

Borehole No. **WS02**

Sheet 1 of 1

Project Name:	BRUNSWICK MILL	Project No. GRO-22462	Co-ords:	385782.15 - 398665.48	Hole Type WS
Location:	MANCHESTER		Level:	53.64	Scale 1:25
Client:	ARROWSMITH PROPERTY INVESTMENTS		Dates:	04/05/2023 -	Logged By JR

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.05	ES		0.10	53.54		MADE GROUND: Brown gravelly medium to coarse sand with a moderate cobble content of sandstone. Gravel is angular to subrounded fine to coarse of mixed lithologies including brick, concrete, fabric, sandstone and wood. End of borehole at 0.10 m

1
2
3
4
5

Remarks

1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 0.1m bgl. 3. No groundwater encountered. 4. Borehole terminated due to sandstone obstruction. 5. Backfilled with arisings.

Borehole Log

GROUNDTECH CONSULTING

Borehole No. **WS02A** Sheet 1 of 1

Project Name:	BRUNSWICK MILL	Project No. GRO-22462	Co-ords:	385781.17 - 398666.27	Hole Type WS
Location:	MANCHESTER		Level:	53.70	Scale 1:25
Client:	ARROWSMITH PROPERTY INVESTMENTS		Dates:	04/05/2023 -	Logged By JR

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.50	ES					MADE GROUND: Brown black gravelly medium to coarse sand with a moderate cobble content of sandstone and a faint hydrocarbon odour. Gravel is angular to subrounded fine to coarse of mixed lithologies including brick, concrete, ceramics, sandstone and wood.
		1.00	D					
		1.20		N=12 (1,4/3,3,3,3)				
		1.50	ES					
		2.00		N=50 (9,11/50 for 30mm)	2.00	51.70		End of borehole at 2.00 m

Remarks

1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 1.2m bgl. 3. No groundwater encountered. 4. Borehole terminated due to refusal. 5. Monitoring standpipe installed to 2.0m bgl (1.0m plain, 1.0m slotted).

Borehole Log

GROUNDTECH CONSULTING

Borehole No. **WS03**

Sheet 1 of 1

Project Name:	BRUNSWICK MILL	Project No. GRO-22462	Co-ords:	385789.18 - 398678.50	Hole Type WS
Location:	MANCHESTER		Level:	53.75	Scale 1:25
Client:	ARROWSMITH PROPERTY INVESTMENTS		Dates:	04/05/2023 -	Logged By JR

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.50	ES					MADE GROUND: Brown black gravelly medium to coarse sand with a moderate cobble content of brick and sandstone. Gravel is angular to subrounded fine to coarse of mixed lithologies including brick, concrete, ceramics, sandstone and wood.
		1.00	D					
		1.20		N=13 (3,3/4,3,3,3)				
		1.50	ES					
		2.00		N=28 (25 for 60mm/4,4,8,12)	2.00	51.75		End of borehole at 2.00 m

Remarks

1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 1.2m bgl. 3. No groundwater encountered. 4. Borehole terminated due to refusal. 5. Backfilled with arisings.

GROUNDTECH CONSULTING

Borehole Log

Borehole No. **WS04**

Sheet 1 of 1

Project Name:	BRUNSWICK MILL	Project No. GRO-22462	Co-ords:	385803.87 - 398685.93	Hole Type WS
Location:	MANCHESTER		Level:	53.61	Scale 1:25
Client:	ARROWSMITH PROPERTY INVESTMENTS		Dates:	04/05/2023 -	Logged By JR

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.50	ES					MADE GROUND: Brown black gravelly fine to coarse sand with a moderate cobble content of brick and sandstone and a faint hydrocarbon odour. Gravel is angular to subrounded fine to coarse of mixed lithologies including brick, concrete, ceramics, roof slates, sandstone and wood.
		1.00	D					*Becoming very sandy at 1.0m bgl.*
		1.20		N=11 (3,3/3,3,3,2)				
		1.50	ES					
		2.00		N=50 (6,9/50 for 50mm)	2.00	51.61		End of borehole at 2.00 m

Remarks

1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 1.2m bgl. 3. No groundwater encountered. 4. Borehole terminated due to refusal. 5. Backfilled with arisings.

Borehole Log

GROUNDTECH CONSULTING

Borehole No. **WS05**

Sheet 1 of 1

Project Name:	BRUNSWICK MILL	Project No. GRO-22462	Co-ords:	385819.00 - 398704.58	Hole Type WS
Location:	MANCHESTER		Level:	53.72	Scale 1:25
Client:	ARROWSMITH PROPERTY INVESTMENTS		Dates:	04/05/2023 -	Logged By JR

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.50	ES					MADE GROUND: Brown gravelly fine to coarse sand with a moderate cobble content of brick. Gravel is angular to subrounded fine to coarse of mixed lithologies including brick, concrete, ceramics, roof slates, sandstone and wood.
		1.20		N=8 (2,0/2,2,2,2)				
		1.50	ES					
		2.00		N=50 (25 for 50mm/50 for 10mm)	2.00	51.72		End of borehole at 2.00 m

Remarks

1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 1.2m bgl. 3. No groundwater encountered. 4. Borehole terminated due to refusal. 5. Monitoring standpipe installed to 2.0m bgl (1.0m plain, 1.0m slotted).

GROUNDTECH CONSULTING

Borehole Log

Borehole No. **WS06**

Sheet 1 of 1

Project Name:	BRUNSWICK MILL	Project No. GRO-22462	Co-ords:	385830.31 - 398706.55	Hole Type WS
Location:	MANCHESTER		Level:	53.38	Scale 1:25
Client:	ARROWSMITH PROPERTY INVESTMENTS		Dates:	04/05/2023 -	Logged By JR

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.50	ES		0.60	52.78		MADE GROUND: Brown gravelly fine to coarse sand with a moderate cobble content of brick and a faint hydrocarbon odour. Gravel is angular to subrounded fine to coarse of mixed lithologies including brick, concrete, ceramics, glass, paper, plastic, rubber, sandstone and wood.
								End of borehole at 0.60 m

1
2
3
4
5

Remarks

1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 0.6m bgl. 3. No groundwater encountered. 4. Borehole terminated due to brick obstruction. 5. Backfilled with arisings.

GROUNDTECH CONSULTING

Borehole Log

Borehole No. **WS06A** Sheet 1 of 1

Project Name:	BRUNSWICK MILL	Project No. GRO-22462	Co-ords:	385828.15 - 398704.56	Hole Type WS
Location:	MANCHESTER		Level:	53.47	Scale 1:25
Client:	ARROWSMITH PROPERTY INVESTMENTS		Dates:	04/05/2023 -	Logged By JR

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.50	ES		0.60	52.87		MADE GROUND: Brown gravelly fine to coarse sand with a moderate cobble content of brick and a faint hydrocarbon odour. Gravel is angular to subrounded fine to coarse of mixed lithologies including brick, concrete, ceramics, plastic, sandstone and wood.
								End of borehole at 0.60 m

1
2
3
4
5

Remarks
1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 0.6m bgl. 3. No groundwater encountered. 4. Borehole terminated due to concrete obstruction. 5. Backfilled with arisings.

GROUNDTECH CONSULTING

Borehole Log

Borehole No. **WS07**

Sheet 1 of 1

Project Name: BRUNSWICK MILL	Project No. GRO-22462	Co-ords: 385814.06 - 398711.63	Hole Type WS
Location: MANCHESTER		Level: 53.61	Scale 1:25
Client: ARROWSMITH PROPERTY INVESTMENTS		Dates: 04/05/2023 -	Logged By JR

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.50	ES					MADE GROUND: Brown gravelly fine to coarse sand with a moderate cobble content of brick. Gravel is angular to subrounded fine to coarse of mixed lithologies including brick, concrete, ceramics, plastic, sandstone and wood.
					0.80	52.81		End of borehole at 0.80 m

1 2 3 4 5

Remarks

1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 0.8m bgl. 3. No groundwater encountered. 4. Borehole terminated due to concrete obstruction. 5. Backfilled with arisings.

GROUNDTECH CONSULTING

Borehole Log

Borehole No. **WS07A**

Sheet 1 of 1

Project Name:	BRUNSWICK MILL	Project No. GRO-22462	Co-ords:	385813.25 - 398711.65	Hole Type WS
Location:	MANCHESTER		Level:	53.74	Scale 1:25
Client:	ARROWSMITH PROPERTY INVESTMENTS		Dates:	04/05/2023 -	Logged By JR

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.50	ES					MADE GROUND: Brown gravelly fine to coarse sand with a moderate cobble content of brick. Gravel is angular to subrounded fine to coarse of mixed lithologies including brick, concrete, ceramics, fabric, plastic, sandstone and wood.
		1.00	ES					
		1.20		N=3 (1,1/0,1,1,1)				
		1.50		N=50 (25 for 0mm/50 for 0mm)				
					1.95	51.79		End of borehole at 1.95 m

Remarks

1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 1.2m bgl. 3. No groundwater encountered. 4. Borehole terminated due to refusal. 5. Monitoring standpipe installed to 1.5m bgl (1.0m plain, 0.5m slotted).

GROUNDTECH CONSULTING

Borehole Log

Borehole No. **WS08**

Sheet 1 of 1

Project Name: BRUNSWICK MILL	Project No. GRO-22462	Co-ords: 385763.49 - 398679.02	Hole Type WS
Location: MANCHESTER		Level: 53.97	Scale 1:25
Client: ARROWSMITH PROPERTY INVESTMENTS		Dates: 04/05/2023 -	Logged By JR

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.50	ES					MADE GROUND: Brown gravelly fine to coarse sand with a moderate cobble content of brick. Gravel is angular to subrounded fine to coarse of mixed lithologies including brick, concrete, ceramics, sandstone and wood.
		1.20		N=4 (1,1/1,1,1,1)				
		1.50	ES					*Becoming very sandy at 1.4m bgl.*
		2.00		N=8 (1,0/2,2,2,2)				
					2.20	51.77		Stiff brown mottled grey gravelly CLAY. Gravel is angular to subangular fine to coarse of mixed lithologies including coal, shale and sandstone.
		2.50	ES					
		3.00 3.00	D	N=28 (4,4/5,7,8,8)				
		4.00 4.00	D	N=17 (4,4/4,4,4,5)	4.00	49.97		End of borehole at 4.00 m

1 2 3 4 5

Remarks

1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 1.2m bgl. 3. No groundwater encountered. 4. Borehole terminated at 4.0m bgl. 5. Monitoring standpipe installed to 4.0m bgl (1.0m plain, 3.0m slotted).

Borehole Log

GROUNDTECH CONSULTING

Borehole No. **WS09**

Sheet 1 of 1

Project Name: BRUNSWICK MILL	Project No. GRO-22462	Co-ords: -	Hole Type WS
Location: MANCHESTER		Level:	Scale 1:25
Client: ARROWSMITH PROPERTY INVESTMENTS		Dates: 05/05/2023 -	Logged By JR

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.50	ES		0.15			MADE GROUND: Paving cobbles.
								MADE GROUND: Dark brown black ashy gravelly slightly clayey medium to coarse sand with a low cobble content of brick and a faint hydrocarbon odour. Gravel is angular to subangular fine to coarse of mixed lithologies including brick, ash, tarmac and slag.
					0.90			End of borehole at 0.90 m

1
2
3
4
5

Remarks

1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 0.9m bgl. 3. No groundwater encountered. 4. Borehole terminated due to drain encountered at 0.9m bgl. 5. Backfilled with arisings.

GROUNDTECH CONSULTING

Borehole Log

Borehole No. **WS10**

Sheet 1 of 1

Project Name: BRUNSWICK MILL	Project No. GRO-22462	Co-ords: -	Hole Type WS
Location: MANCHESTER		Level:	Scale 1:25
Client: ARROWSMITH PROPERTY INVESTMENTS		Dates: 05/05/2023 -	Logged By JR

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.15			MADE GROUND: Paving cobbles.
		0.50	ES					MADE GROUND: Dark grey black ashy gravelly slightly clayey medium to coarse sand with a low cobble content of brick and a mild hydrocarbon odour. Gravel is angular to subangular fine to coarse of mixed lithologies including brick, ash, tarmac and slag.
		1.20 1.20	ES	N=2 (1,0/0,1,0,1)				*Very clayey from 1.2m to 1.5m bgl.*
					1.50			Firm brown mottled grey slightly sandy CLAY. Sand is medium to coarse.
		1.70	ES					
		2.00 2.00	D	N=15 (2,3/3,4,4,4)				
		3.00 3.00	D	N=13 (4,4/4,3,3,3)	3.00			Brown clayey fine to medium SAND.
					3.50			Firm brown mottled grey slightly sandy CLAY. Sand is medium to coarse.
		4.00 4.00	D	N=32 (6,6/8,8,8,8)	4.00			End of borehole at 4.00 m

Remarks

1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 1.2m bgl. 3. No groundwater encountered. 4. Borehole terminated at 4.0m bgl. 5. Backfilled with arisings.

GROUNDTECH CONSULTING

Borehole Log

Borehole No. **WS11** Sheet 1 of 1

Project Name: BRUNSWICK MILL	Project No. GRO-22462	Co-ords: -	Hole Type WS
Location: MANCHESTER		Level:	Scale 1:25
Client: ARROWSMITH PROPERTY INVESTMENTS		Dates: 05/05/2023 -	Logged By JR

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.15			MADE GROUND: Paving cobbles.
		0.50	ES					MADE GROUND: Dark grey black ashy gravelly slightly clayey medium to coarse sand with a low cobble content of brick and a faint hydrocarbon odour. Gravel is angular to subangular fine to coarse of mixed lithologies including brick, ash, tarmac and slag.
		1.20		N=8 (2,2/2,2,2,2)	1.25			
		1.50	ES					MADE GROUND: Dark grey black ashy gravelly clay with a moderate hydrocarbon odour. Gravel is angular to subangular fine to coarse of mixed lithologies including brick, ash and sandstone.
		2.00		N=20 (4,4/4,5,5,6)				
		2.50	ES		2.45			Firm brown mottled grey slightly sandy CLAY. Sand is medium to coarse.
								Band of fine to coarse sand at 2.7m bgl.
		3.00	D					
	▼	3.00		N=20 (3,4/5,5,5,5)				
		4.00	D		4.00			End of borehole at 4.00 m
		4.00		N=33 (7,8/7,8,9,9)				

Remarks
1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 1.2m bgl. 3. Groundwater encountered at 3.45m bgl. 4. Borehole terminated at 4.0m bgl. 5. Backfilled with arisings.