

Preliminary Data Summary Sheets



Project reference: 20-153

Site location: Land Adjacent Scar Mills, Lockwood Scar, Huddersfield

Client: Faum Architecture

Site proposals: Proposed Residential Development.

Attachments: Preliminary Borehole & Trial Pit Location Plan and Borehole and Trial Pit Record Sheets

Intrusive Investigation Works:

The intrusive works undertaken included the following:

- 3 no. windowless sampling boreholes (WS01 to WS03)
- 5 no. mechanically excavated trial pits (TP01 to TP05)

Ground Conditions:

Made ground was recorded to depths of between c.0.28m to c.3.20m below current ground level (bcgl), generally comprising of an initial site surfacing of either limestone gravel with broken tarmac or compact brown sandy gravels, underlain by very soft to soft dark brown / brown sandy gravelly clay with anthropogenic debris (i.e., brick, ash etc).

Highly weathered MUDSTONE was recorded below the made ground within several of the exploratory positions up to depths of between c.2.20m to c.6.44m (WS01-WS03 & TP02).

Further detail is provided on the graphical Borehole and Trial Pit Record Sheets attached.

Groundwater:

An ingress of water was encountered at depth of c.1.60m bgl within WS02. It is considered that the water recorded within the borehole is representative of trapped pockets of surface infiltration rather than that of a shallow continuous groundwater surface (water table).

Foundation Options:

Based on the ground conditions encountered, at this stage strip foundations utilising trench fill may be suitable for the proposed development with foundations taken down through the made ground and based wholly within the weathered mudstone where a maximum allowable bearing pressure of 120kN/m² is available. However, further works (including site preparation works) may be required to determine the depth to mudstone across the site where this was not encountered.

Alternatively, piling may be a more suitable option for the proposed development and if this were to be considered, these preliminary comments should be forwarded onto a specialist piling contractor for their assessment. However, deeper boreholes may be required to allow a suitable scheme to be designed.

Additional Comments:

Laboratory (geotechnical and contamination) screening is currently underway on samples recovered from the investigation works, and once we are in receipt of these results, we will be in a position to issue the final interpretative report. In addition, Insitu ground gas monitoring wells have been installed within the boreholes in order that a programme of monitoring can be carried out with the results incorporated into the final report.



EXISTING SITE PLAN

Scale 1:400@A1



PROPOSED SITE PLAN

Scale 1:250@A1

KEY

Grassed Area		Public right of way path		Blocked Paving / Driveway	
Designated Planting Zone		Proposed Stone Wall		Flag Paving	
Property		Proposed 1.8m High Timber Fence		Proposed Tarmac Area	

NOTES: 1. All dimensions are in millimeters unless otherwise stated. 2. All dimensions are to the center line of the road unless otherwise stated. 3. All dimensions are to the center line of the road unless otherwise stated. 4. All dimensions are to the center line of the road unless otherwise stated. 5. All dimensions are to the center line of the road unless otherwise stated. 6. All dimensions are to the center line of the road unless otherwise stated. 7. All dimensions are to the center line of the road unless otherwise stated. 8. All dimensions are to the center line of the road unless otherwise stated. 9. All dimensions are to the center line of the road unless otherwise stated. 10. All dimensions are to the center line of the road unless otherwise stated.

Issue Purpose : Full Planning Application

Client	N/A	Drawn	AP
Project	Proposed Residential Development	Date	23-11-2018
Address	Land adjacent Scar Mills, Lockwood Scar, Huddersfield, HD4 6BL	Scale	1:250/400 @ A1
Title	Existing and Proposed Site Plan	Stage	Site/Section
		Design	D Sketch Scheme - SK
		Planning	P Construction - C

Rev F: 20-01-2020 : AP : Amended Site Plan
 Rev A: 16-01-2019 : AP : Addition of Bin Store and Sight Lines and amended refuse vehicle sweep path

Drawing Number 18104 - P - 02 - F

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BOREHOLE LOG

Project Land Ajaent Scar Mills, Lockwood Scar, Huddersfield				BOREHOLE No WS01
Job No 20-153	Date 02-02-21	Ground Level (m)	Co-Ordinates ()	
Contractor Arc Environmental Ltd				Sheet 1 of 1

SAMPLES & TESTS			Water	STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION		
0.25-1.00	D J			[Cross-hatch pattern]	0.10	Compact brown sandy gravel with rootlets (MADE GROUND)			
				[Cross-hatch pattern]	0.15	Concrete slab (MADE GROUND)			
0.25-1.00	J			[Cross-hatch pattern]	(0.85)	Compact brown very sandy sandstone and mudstone gravel with coal, ash and brick fragments. Becoming soft clay from c.0.850mbgl (MADE GROUND)			
1.00-1.70	D J	N=2		[Cross-hatch pattern]	1.00	Very soft becoming firm (c.1.50m) brown / dark brown silty sandy gravelly clay with ash and brick fragments. Gravel comprises angular to subangular sandstone and mudstone (MADE GROUND)			
1.00-1.70	J			[Cross-hatch pattern]	(0.70)				
1.00-1.45	SPT			[Cross-hatch pattern]	1.70	Completely / highly weathered brown / orange brown friable mudstone recovered as stiff friable clay			
1.70-2.00	B			[Cross-hatch pattern]	(1.69)				
2.00-2.45	SPT	N=45		[Horizontal lines pattern]	3.39	Borehole terminated at c.3.39m bgl due to refusal of sampling equipment			
3.00	B	50 Blows		[Horizontal lines pattern]					
3.00-3.39	SPT				[Horizontal lines pattern]				

AGS3 UK BH 20-153 TP AND BH LOGS_1.GPJ AGS3_ALL_GDT_9/2/21

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
											WATER: Hole remained dry during exploratory period.

All dimensions in metres Scale 1:25	Client Faum Architecture	Method/ Plant Used Windowless Sampling	Logged By SC
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BOREHOLE LOG

Project Land Ajaent Scar Mills, Lockwood Scar, Huddersfield				BOREHOLE No WS02
Job No 20-153	Date 02-02-21	Ground Level (m)	Co-Ordinates ()	
Contractor Arc Environmental Ltd				Sheet 1 of 1

SAMPLES & TESTS			Water	STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	DESCRIPTION		
0.10-0.28	D			[Cross-hatch pattern]	0.10	Loose limestone gravel overlaying broken tarmac (MADE GROUND)			
0.10-0.28	J			[Cross-hatch pattern]	0.28	Compact dark brown sandy gravelly clay. Gravel comprises angular to subangular sandstone and mudstone (MADE GROUND)			
0.28-0.90	B			[Horizontal lines pattern]	(0.62)	Completely weathered dark grey / black / dark orange brown shaley clayey mudstone			
0.90-1.25	J		↓	[Horizontal lines pattern]	0.90	Completely / highly weathered black / dark orange brown shaley mudstone, recovered as firm to stiff clay. Becoming friable from c.3.00mbgl			
1.25-1.70	SPT	N=17		[Horizontal lines pattern]					
2.00-2.45	B SPT	N=24		[Horizontal lines pattern]	(2.50)				
3.00-3.40	B SPT	50 Blows		[Horizontal lines pattern]	3.40				
							Borehole terminated at c.3.40m bgl due to refusal of sampling equipment		

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Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
											WATER: Ground water encountered at c.1.60m below ground level

All dimensions in metres Scale 1:25	Client Faum Architecture	Method/ Plant Used Windowless Sampling	Logged By SC
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BOREHOLE LOG

Project Land Ajaent Scar Mills, Lockwood Scar, Huddersfield				BOREHOLE No WS03
Job No 20-153	Date 02-02-21	Ground Level (m)	Co-Ordinates ()	
Contractor Arc Environmental Ltd				Sheet 1 of 1

SAMPLES & TESTS			Water	STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	DESCRIPTION		
0.00-0.32 0.00-0.32	D J			[Cross-hatch pattern]	0.32	Compact dark brown sandy clayey gravel with roots, ash and brick fragments (MADE GROUND)		[Black bar]	
0.32-1.20 0.32-1.20	D J			[Cross-hatch pattern]	(1.68)	Compact yellowish brown sandy sandstone gravel with ash and rootlets, to c.1.70mbgl (MADE GROUND)		[Black bar]	
1.20-2.00 1.20-2.00 1.20-1.65	D J SPT	N=6		[Cross-hatch pattern]	2.00			[Black bar]	
2.00-2.80 2.00-2.45	B SPT	N=5		[Cross-hatch pattern]	(0.80) 2.80	Soft dark brown / brown / orange brown sandy gravelly clay (MADE GROUND). Gravel comprises angular to subangular sandstone and mudstone		[Black bar]	
2.80-3.00 3.00-3.45	B SPT	N=18		[Horizontal lines pattern]	(3.64)	Completely / highly weathered black / dark orange brown shaley mudstone, recovered as firm to stiff clay. Becoming friable from c.3.00mbgl		[Black bar]	
4.00 4.00-4.45	B SPT	N=28		[Horizontal lines pattern]	(3.64)			[Black bar]	
5.00 5.00-5.45	B SPT	N=18		[Horizontal lines pattern]	(3.64)			[Black bar]	
6.00 6.00-6.44	B SPT	50 Blows		[Horizontal lines pattern]	6.44			[Black bar]	
							Borehole terminated at c.6.44m bgl		

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Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
											WATER: Hole remained dry during exploratory period.

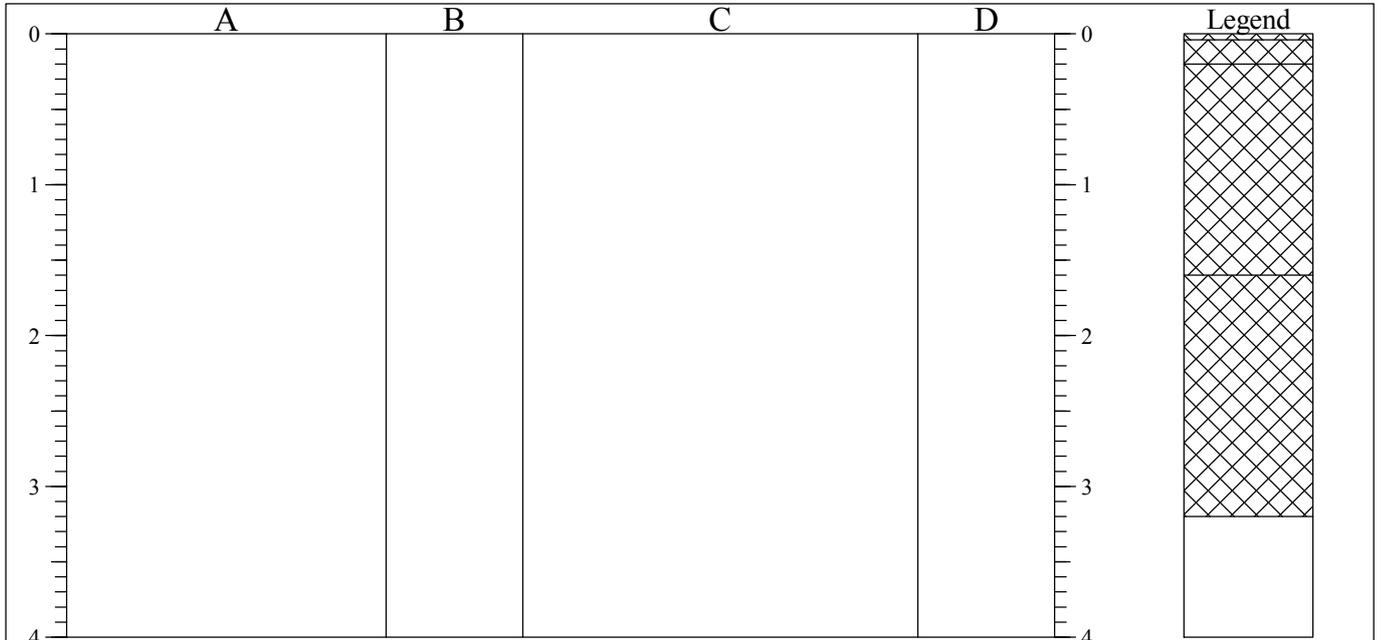
All dimensions in metres Scale 1:43.75	Client Faum Architecture	Method/ Plant Used Windowless Sampling	Logged By SC
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TRIAL PIT LOG

Project Land Ajacent Scar Mills, Lockwood Scar, Huddersfield				TRIAL PIT No TP01
Job No 20-153	Date 02-02-21	Ground Level (m)	Co-Ordinates ()	
Contractor Arc Environmental Ltd				Sheet 1 of 1



STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.04		Loose limestone gravel overlaying broken tarmac (MADE GROUND)	0.20-1.00	J/D	
0.04-0.20		Compact light brown very sandy gravel with coal, ash and brick fragments (MADE GROUND)			
0.20-1.60		Dark brown sandy gravelly clay with ash, plastic and brick fragments. Gravel comprises angular to subangular sandstone and mudstone (MADE GROUND)			
1.60-3.20		Very soft brown sandy gravelly clay with ash and brick fragments. Gravel comprises angular to subangular sandstone and mudstone (MADE GROUND)	1.50	J/D	
			3.00	J/D	

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<p>Shoring/Support: Stability:</p> <div style="text-align: center;"> </div>	<p>GENERAL REMARKS</p> <p>WATER: Hole remained dry and unstable during exploratory period.</p>
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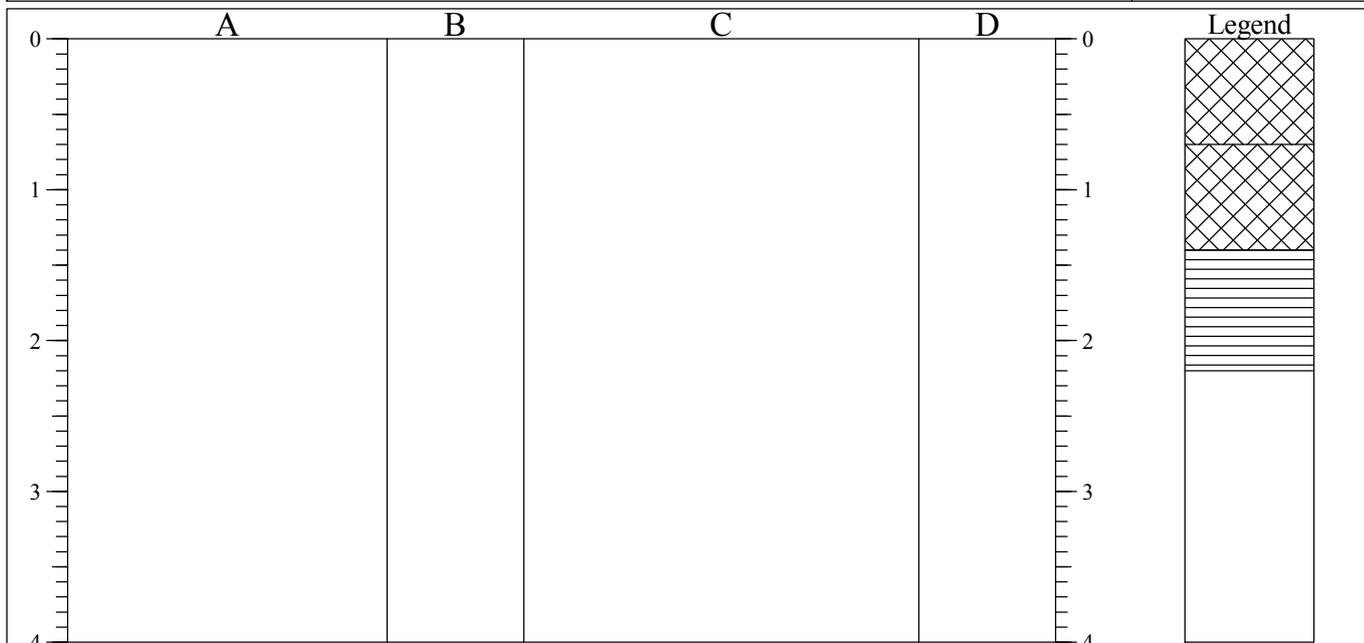
All dimensions in metres Scale 1:50	Client Faum Architecture	Method/ Plant Used Machine excavated	Logged By TI
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TRIAL PIT LOG

Project Land Ajaent Scar Mills, Lockwood Scar, Huddersfield				TRIAL PIT No TP02
Job No 20-153	Date 02-02-21	Ground Level (m)	Co-Ordinates ()	
Contractor Arc Environmental Ltd				Sheet 1 of 1



STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.70		Compact brown sandy gravel with rootlets, ash and brick fragments (MADE GROUND)	0.10-0.60	J/D	
0.70-1.40		Soft brown orange mottled gravelly sandy clay with occassional brick fragments (MADE GROUND)	1.00	J/D	
1.40-2.20		Completely / highly weathered brown / orange brown friable mudstone recovered as stiff friable clay	2.00	B	

<p>Shoring/Support: Stability:</p> <div style="text-align: center;"> </div>	<p style="text-align: center;">GENERAL REMARKS</p> <p>WATER: Hole remained dry and unstable during exploratory period.</p>
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All dimensions in metres Scale 1:50	Client Faum Architecture	Method/ Plant Used Machine excavated	Logged By TI
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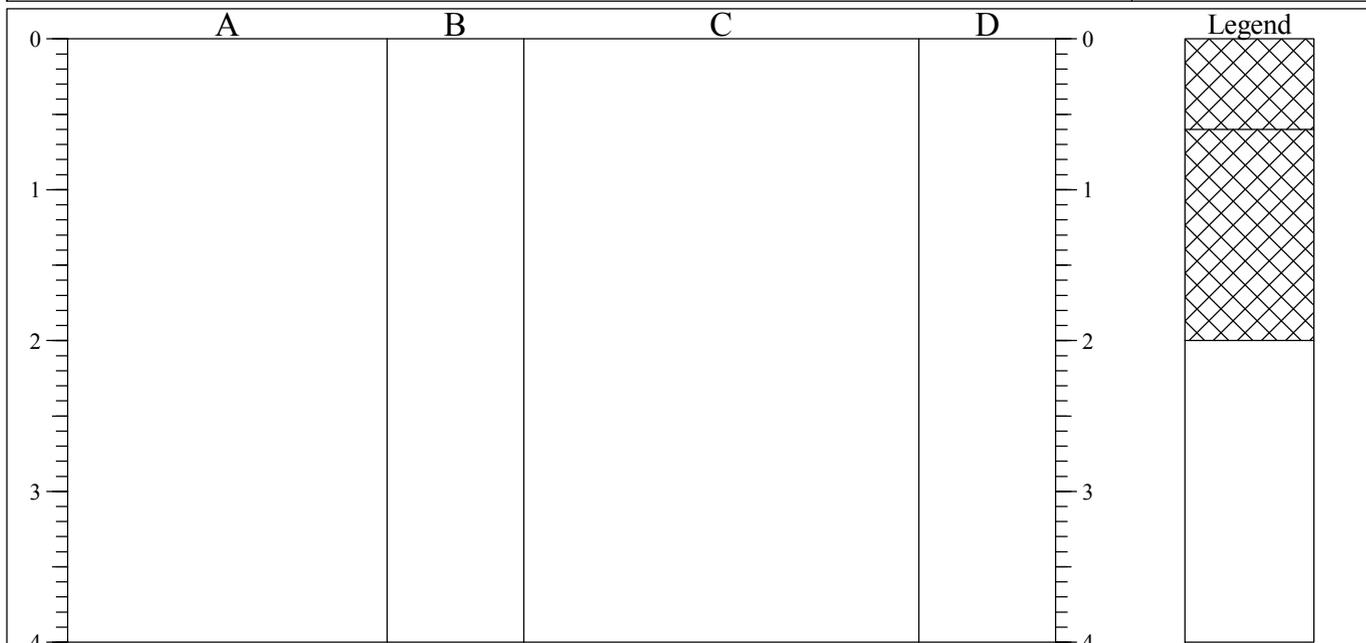
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TRIAL PIT LOG

Project Land Ajacent Scar Mills, Lockwood Scar, Huddersfield				TRIAL PIT No TP03
Job No 20-153	Date 02-02-21	Ground Level (m)	Co-Ordinates ()	
Contractor Arc Environmental Ltd				Sheet 1 of 1



STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.60		Compact dark brown sandy clayey gravel with roots, ash and brick fragments (MADE GROUND)	0.10-0.50	J/D	
0.60-2.00		Compact yellowish brown sandy sandstone gravel with ash, rootlets and brick fragments (MADE GROUND)	1.50	J/D	

<p>Shoring/Support: Stability:</p> <div style="text-align: center;"> </div>	<p style="text-align: center;">GENERAL REMARKS</p> <p>WATER: Hole remained dry and unstable during exploratory period.</p>
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All dimensions in metres Scale 1:50	Client Faum Architecture	Method/ Plant Used Machine excavated	Logged By TI
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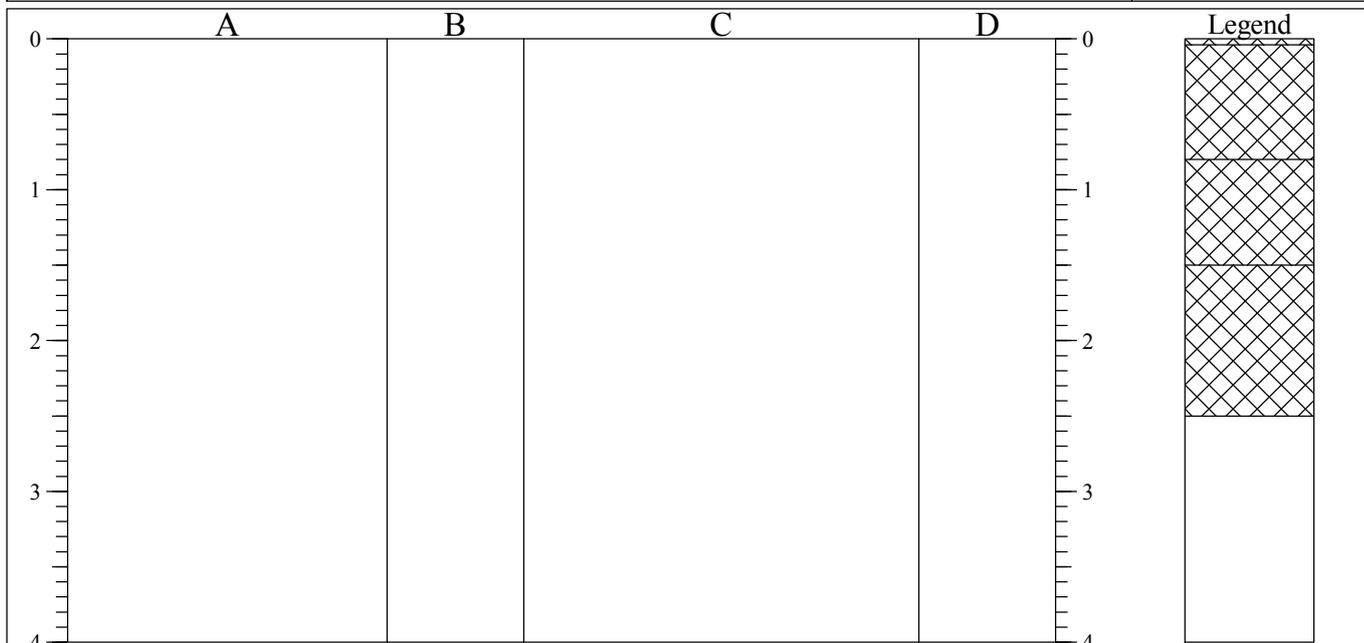
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TRIAL PIT LOG

Project Land Ajaent Scar Mills, Lockwood Scar, Huddersfield				TRIAL PIT No TP04
Job No 20-153	Date 02-02-21	Ground Level (m)	Co-Ordinates ()	
Contractor Arc Environmental Ltd				Sheet 1 of 1



STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.04		Loose limestone gravel overlaying broken tarmac (MADE GROUND)			
0.04-0.80		Compact dark brown sandy gravelly clay with ash and brick fragments. Gravel comprises angular to subangular sandstone and mudstone (MADE GROUND)	0.50	J/D	
0.80-1.50		Soft brown orange mottled gravelly sandy clay with occasional brick fragments (MADE GROUND)	1.00	J/D	
1.50-2.50		Dark brown sandy gravelly clay with ash, roots and brick fragments. Gravel comprises angular to subangular sandstone and mudstone (MADE GROUND)	2.00	J/D	

<p>Shoring/Support: Stability:</p> <div style="text-align: center;"> </div>	<p>GENERAL REMARKS</p> <p>WATER: Hole remained dry and unstable during exploratory period.</p>
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All dimensions in metres Scale 1:50	Client Faum Architecture	Method/ Plant Used Machine excavated	Logged By TI
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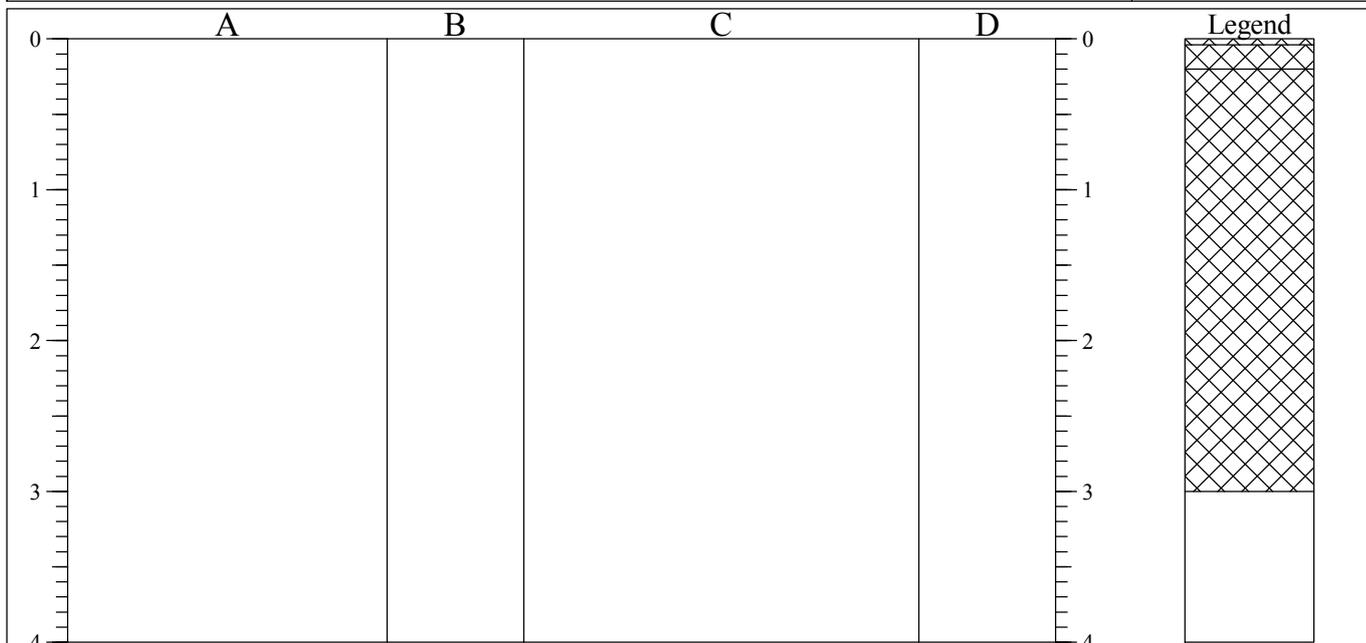
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TRIAL PIT LOG

Project Land Ajacent Scar Mills, Lockwood Scar, Huddersfield				TRIAL PIT No TP05
Job No 20-153	Date 02-02-21	Ground Level (m)	Co-Ordinates ()	
Contractor Arc Environmental Ltd				Sheet 1 of 1



STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.04		Loose limestone gravel overlaying broken tarmac (MADE GROUND)			
0.04-0.20		Compact light brown very sandy gravel with coal, ash and brick fragments (MADE GROUND)	0.20-1.00	J/D	
0.20-3.00		Dark brown sandy gravelly clay with ash, plastic and brick fragments. Gravel comprises angular to subangular sandstone and mudstone (MADE GROUND)	2.50	J/D	

<p>Shoring/Support: Stability:</p> <div style="text-align: center;"> </div>	<p style="text-align: center;">GENERAL REMARKS</p> <p>WATER: Hole remained dry and unstable during exploratory period.</p>
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All dimensions in metres Scale 1:50	Client Faum Architecture	Method/ Plant Used Machine excavated	Logged By TI
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