TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306138.34	Northing:	206967.33
Level:	279.87mAOD	Depth:	30.00m
Logger:	DD	Type:	DS+RC
		Inclination:	90°

Status: FINAL

Borehole Number: **BH111**

Sheet 1 of 8

Method, Plant and Crew					Diameter	
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)
0.00	0.80	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	0.80	300
0.80	3.10	Dynamic Windowless Sampling	Klemm	Apex Drilling Services	3.10	101
3.10	30.00	Rotary Core	Klemm	Apex Drilling Services	30.00	102

Casing	
Depth(m)	Diam (mm)
1.50	165

Drilling Progress by Time				
Date	Time	Depth (m)	Casing (m)	Water (m)
10/03	17:00	0.40	-	
24/03	17:00	3.10	1.50	
20/04	17:00	8.85	1.50	
21/04	17:00	20.90	-	

Scale: 1:50
Checked By: JC + DD
Approved By: NB
Start Date: 10/03/2026
Finish Date: 23/04/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples, Tests and Rotary Coring: Depth (m)	Ref	Core Run	FI	TCR	SCR	RQD	Tests / Results
MADE GROUND: Grass over firm to stiff grey silty very sandy GRAVEL. Sand is fine to coarse. Gravel is angular to subangular fine to coarse mudstone, siltstone and traces of coal. MGR						0.20 0.30 - 3.10 1.00 1.00 2.00 2.50 3.00 3.00	ES1 B1 D1 ES2 ES3 B4 ES ES4						PID 0.40m, 0.0ppm PID 0.80m, 0.0ppm PID 1.00m, 0.0ppm SPT(C) 1.50m, N=9 (3,3/2,2,3,2) PID 2.00m, 0.0ppm SPT(C) 2.50m, N=21 (5,6/6,5,5,5) PID 3.00m, 0.0ppm SPT(C) 3.10m, 50 (25 for 55mm/50 for 13mm)
Medium strong very thinly bedded (0 to 5 degrees) grey slightly carbonaceous SILTSTONE with occasional very thin beds of extremely to very weak locally fissile mudstone. Discontinuities: 1) 0 to 5 degrees along bedding, closely spaced, planar to undulating, smooth with occasional light orangish brown surface discolouration. 2) 70 degrees, medium to widely spaced, planar to stepped, rough with orangish brown surface staining. Weathering grade III. (SOUTH WALES LOWER COAL MEASURES) SWLCM *From 3.20m to 3.65m bgl discontinuity is 90 degrees, planar, smooth with light orangish brown surface staining.* *From 4.10m to 4.20m bgl weak dark grey carbonaceous mudstone.* *From 4.20m to 4.50m bgl discontinuity is 90 degrees, planar, smooth with light orangish brown surface staining.* *From 5.00m to 5.40m bgl frequent bvanchiopodl bivalve shells (to 40mm) concentrated along bedding.* *From 5.40m to 6.00m bgl partially non intact, close to 1 to 2no 90 degrees discontinuity.* *From 5.50m to 5.90m bgl discontinuity is 90 degrees, planar, smooth with light orangish brown surface staining.* *From 6.20m to 6.50m bgl non recovery.* *From 7.20m to 7.70m bgl very weak to weak partially non intact with locally 70 to 90 degrees discontinuity.* *From 7.70m to 8.20m bgl non intact.* *From 8.85m to 9.05m bgl non intact.* *From 9.35m to 9.50m bgl extremely weak mudstone. Partially weathered to stiff friable clay.*		3.10	276.77			3.10 - 3.20 4.50 - 4.65 6.80 - 6.95 9.05 - 9.15	C1 C2 C3 C4	3.10 3.50 3.50 5.00 5.00 6.20 6.20 7.70 7.70 8.45 8.45 8.85 8.85 10.35		88 93 100 80 100 100	88 73 50 27 62 63	38 17 13 13 0 37	SPT(C) 9.00m, 50 (25 for 75mm/50 for 85mm)
Strong thickly laminated to very thinly bedded (0 to 10 degrees) grey SILTSTONE with occasional thin laminations of fine sandstone. Discontinuities: 1) 0 to 10 degrees, medium spaced, planar, smooth with light orangish brown surface discolouration locally penetrating (1 to 2mm). 2) 70 degrees, medium to widely spaced, planar to curved, smooth with reddish brown surface staining and speckled calcite. Weathering grade II. (SOUTH WALES LOWER COAL MEASURES) SWLCM *From 9.90m to 10.00m bgl 1no 70 degrees discontinuity with <1mm of white kaolinite infill.*		9.50	270.37										

Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, C= Core Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.

Sampling Runs

From (m)	To (m)	Diameter (mm)	Recovery %
1.50	2.50	101	80
2.50	3.10	101	100

Drilling Fluid

From (m)	To (m)	Return Min %	Colour	Type
3.10	3.50	100	Grey	Water
3.50	5.00	100	Grey	Water
5.00	6.20	80	Dark grey	Water

Groundwater

Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Hammer Information

Serial No.	Energy Ratio %
AP3	60

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
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Level:	279.87mAOD	Depth:	30.00m
Logger:	DD	Type:	DS+RC
		Inclination:	90°

Status: FINAL

Borehole Number: **BH111**

Scale: 1:50
Checked By: JC + DD
Approved By: NB
Start Date: 10/03/2026
Finish Date: 23/04/2026

Method, Plant and Crew

From (m)	To (m)	Type	Plant Used	Crew
0.00	0.80	Inspection Pit	Hand Excavation Tools	Apex Drilling Services
0.80	3.10	Dynamic Windowless Sampling	Klemm	Apex Drilling Services
3.10	30.00	Rotary Core	Klemm	Apex Drilling Services

Diameter

Depth (m)	Diam (mm)
0.80	300
3.10	101
30.00	102

Casing

Depth(m)	Diam (mm)
1.50	165

Drilling Progress by Time

Date	Time	Depth (m)	Casing (m)	Water (m)
10/03	17:00	0.40	-	
24/03	17:00	3.10	1.50	
20/04	17:00	8.85	1.50	
21/04	17:00	20.90	-	

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples, Tests and Rotary Coring: Depth (m)	Ref	Core Run	FI	TCR	SCR	RQD	Tests / Results
Strong thickly laminated to very thinly bedded (0 to 10 degrees) grey SILTSTONE with occasional thin laminations of fine sandstone. Discontinuities: 1) 0 to 10 degrees, medium spaced, planar, smooth with light orangish brown surface discolouration locally penetrating (1 to 2mm). 2) 70 degrees, medium to widely spaced, planar to curved, smooth with reddish brown surface staining and speckled calcite. Weathering grade II. (SOUTH WALES LOWER COAL MEASURES) SWLCM *From 10.00m to 10.05m bgl discontinuity is very closely to closely spaced.* *From 10.85m to 11.15m bgl 1no 90 degrees, planar to curved discontinuity with <1mm of speckled calcite and light brown discolouration penetrating (3 to 5mm)*						10.55 - 10.80	C5						SPT(C) 10.50m, N=49 (9,8/10,10,12,17)
						11.00	C6	10.35 11.90		100	90	77	
						11.40 - 11.60	C6						
						12.40 - 12.60	C7						SPT(C) 12.00m, N=50 (25 for 125mm/10,13,13,14)
								11.90 13.40		100	87	27	
Limited recovery. Core recovered as angular to subangular fine to coarse GRAVEL of grey siltstone with predominantly cross bedded fine sandstone. (SOUTH WALES LOWER COAL MEASURES) SWLCM		13.40	266.47										SPT(C) 13.30m, 50 (25 for 115mm/50 for 150mm)
Medium strong very thinly bedded (0 to 10 degrees) grey slightly carbonaceous SILTSTONE. Partially non intact. Discontinuities: 1) 0 to 10 along bedding, closely spaced, planar, smooth. 2) 70 degrees (1 to 2no) closely spaced, planar, smooth with reddish brown surface staining and speckled calcite. (SOUTH WALES LOWER COAL MEASURES) SWLCM		13.90	265.97					13.40 14.90		93	53	13	
						14.70 - 14.80	C8						
No recovery.		14.90	264.97										
Medium strong grey slightly carbonaceous SILTSTONE with locally discernible (0 to 5 degrees) and 70 degrees, planar to curved, smooth discontinuity. Partially non intact. (SOUTH WALES LOWER COAL MEASURES) SWLCM		15.30	264.57										
		15.55	264.32			15.70 - 15.80	C9	14.90 16.40		73	10	10	
Carbonaceous MUDSTONE. Weathered to stiff thickly laminated (0 to 10 degrees) dark grey slightly gravelly clay. Gravel is angular to subangular tabular fine to coarse ordered lithorelicts of weak mudstone with orangish brown discoloration penetrating (3 to 5m). Weathering grade V. (SOUTH WALES LOWER COAL MEASURES) SWLCM		15.85	264.02										
		16.40	263.47										
Medium strong very thinly bedded grey SILTSTONE. Non intact with locally discernible 70 degrees, planar to undulating, smooth discontinuity with reddish brown surface staining. (SOUTH WALES LOWER COAL MEASURES) SWLCM		16.70	263.17					16.40 17.15		33	27	0	
No recovery.													
Moderately weak to medium strong very thinly bedded (0 to 15 degrees) grey locally fossiliferous slightly carbonaceous MUDSTONE. Discontinuities are 0 to 15 degrees along bedding, closely spaced, undulating to planar, smooth and rough. (SOUTH WALES LOWER COAL MEASURES) SWLCM								17.15 17.90		47	13	0	
From 17.65m to 17.75m bgl extremely to very weak partially weathered to clay. *From 18.00m to 18.05m bgl very thin beds of dark grey vitreous coal.* *From 18.05m to 18.40m bgl very weak locally fissile mudstone.*						18.30 - 18.45	C10	17.90 18.65		87	53	27	
No recovery.		18.65	261.22										
Moderately weak to medium strong thinly bedded (0 to 10 degrees) grey locally fossiliferous slightly carbonaceous MUDSTONE. Discontinuities are 0 to 10 degrees along bedding, closely spaced, planar to undulating, smooth and rough. (SOUTH WALES LOWER COAL MEASURES) SWLCM *From 19.60m to 19.80m bgl dark grey with a trace of coal.*		18.95	260.92					18.65 19.40		53	27	20	

Observations / Remarks

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3. ES= Environmental Sample, C= Core Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.

Sampling Runs

From (m)	To (m)	Diameter (mm)	Recovery %

Drilling Fluid

From (m)	To (m)	Return Min %	Colour	Type
6.20	7.70	0		Water
7.70	8.45	0		Water
8.45	8.85	0		Water

Groundwater

Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Hammer Information

Serial No.	Energy Ratio %
AP3	60

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
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Logger:	DD	Type:	DS+RC
		Inclination:	90°

Status: FINAL

Borehole Number: **BH111**

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	0.80	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	0.80	300	1.50	165	10/03	17:00	0.40	-	
0.80	3.10	Dynamic Windowless Sampling	Klemm	Apex Drilling Services	3.10	101			24/03	17:00	3.10	1.50	
3.10	30.00	Rotary Core	Klemm	Apex Drilling Services	30.00	102			20/04	17:00	8.85	1.50	
									21/04		20.90	-	

Scale: 1:50
Checked By: JC + DD
Approved By: NB
Start Date: 10/03/2026
Finish Date: 23/04/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples, Tests and Rotary Coring: Depth (m)	Ref	Core Run	FI	TCR	SCR	RQD	Tests / Results
Moderately weak to medium strong thinly bedded (0 to 10 degrees) grey locally fossiliferous slightly carbonaceous MUDSTONE. Discontinuities are 0 to 10 degrees along bedding, closely spaced, planar to undulating, smooth and rough. (SOUTH WALES LOWER COAL MEASURES) SWLCM		20.20	259.67			20.55 - 20.90	C11	19.40 20.90		100	73	43	
Strong very thinly interbedded grey and light grey SILTSTONE and fine grained SANDSTONE. Discontinuities are 0 to 10 degrees along bedding, medium spaced, planar to undulating, smooth and rough. Weathering grade II to III. (SOUTH WALES LOWER COAL MEASURES) SWLCM								20.90 22.50		94	81	69	
From 22.10m to 22.15m bgl extremely weak mudstone. Partially weathered to clay. *From 22.10m to 22.50m bgl 1no 70 to 80 degrees, planar to curved, rough discontinuity.* *From 22.40m to 22.50m bgl extremely weak mudstone. Partially weathered to clay.*								22.50 24.00		100	100	100	
						23.45 - 23.70	C12						
From 24.70m to 25.50m bgl 2 to 3no 70 degrees, closely spaced, undulating, rough discontinuity.								24.00 25.50		93	57	57	
						25.00 - 25.10	C13						
From 25.50m to 26.50m bgl limited recovery. core recovered comprises of subangular to subrounded fine to medium gravel pieces of rinded core.								25.50 27.00		53	50	20	
From 27.00m to 27.60m bgl 1no 90 degrees, planar, smooth discontinuity. *From 27.60m to 28.10m bgl 1no 90 degrees, undulating to stepped discontinuity.* *From 27.95m to 28.00m bgl weak to very weak.*						27.80 - 28.00	C14	27.00 28.50		100	100	87	
Limited recovery. Core recovered as subangular fine to coarse GRAVEL of siltstone/ sandstone. (SOUTH WALES LOWER COAL MEASURES) SWLCM *From 28.50m to 28.90m bgl slightly clayey with locally discernible 70 to 80 degrees discontinuity.*		28.50	251.37					28.50 30.00		40	13	7	
		30.00	249.87										

Observations / Remarks

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4. Location reinstated as instructed by WSP.

Sampling Runs

From (m)	To (m)	Diameter (mm)	Recovery %

Drilling Fluid

From (m)	To (m)	Return Min %	Colour	Type
8.85	10.35	0		Water
10.35	11.90	0		Water
11.90	13.40	50	Grey	Water

Groundwater

Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Hammer Information

Serial No.	Energy Ratio %
AP3	60

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
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Level:	279.87mAOD	Depth:	30.00m
Logger:	DD	Type:	DS+RC
		Inclination:	90°

Status: FINAL

Borehole Number: **BH111**

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	0.80	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	0.80	300	1.50	165	10/03	17:00	0.40	-	
0.80	3.10	Dynamic Windowless Sampling	Klemm	Apex Drilling Services	3.10	101			24/03	17:00	3.10	1.50	
3.10	30.00	Rotary Core	Klemm	Apex Drilling Services	30.00	102			20/04	17:00	8.85	1.50	
									21/04	17:00	20.90	-	

Scale: 1:50
Checked By: JC + DD
Approved By: NB
Start Date: 10/03/2026
Finish Date: 23/04/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples, Tests and Rotary Coring							
						Depth (m)	Ref	Core Run	FI	TCR	SCR	RQD	Tests / Results
EOH at 30.00m - Achieved target depth													

31
32
33
34
35
36
37
38
39
40

Observations / Remarks

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3. ES= Environmental Sample, C= Core Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.

Sampling Runs

From (m)	To (m)	Diameter (mm)	Recovery %

Drilling Fluid

From (m)	To (m)	Return Min %	Colour	Type
13.40	14.90	50	Grey / black	Water
14.90	16.40	50	Dark grey	Water
16.40	17.15	50	Dark grey	Water

Groundwater

Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Hammer Information

Serial No.	Energy Ratio %
AP3	60

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From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	0.80	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	0.80	300	1.50	165	10/03	17:00	0.40	-	
0.80	3.10	Dynamic Windowless Sampling	Klemm	Apex Drilling Services	3.10	101			24/03	17:00	3.10	1.50	
3.10	30.00	Rotary Core	Klemm	Apex Drilling Services	30.00	102			20/04	17:00	8.85	1.50	
									21/04	17:00	20.90	-	

Scale: 1:50
Checked By: JC + DD
Approved By: NB
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Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples, Tests and Rotary Coring							
						Depth (m)	Ref	Core Run	FI	TCR	SCR	RQD	Tests / Results

41
42
43
44
45
46
47
48
49
50

Observations / Remarks
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Sampling Runs			
From (m)	To (m)	Diameter (mm)	Recovery %

Drilling Fluid				
From (m)	To (m)	Return Min %	Colour	Type
17.15	17.90	50	Dark grey	Water
17.90	18.65	50	Black / grey	Water
18.65	19.40	50	Grey	Water

Groundwater					
Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Hammer Information	
Serial No.	Energy Ratio %
AP3	60

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Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	0.80	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	0.80	300	1.50	165	10/03	17:00	0.40	-	
0.80	3.10	Dynamic Windowless Sampling	Klemm	Apex Drilling Services	3.10	101			24/03	17:00	3.10	1.50	
3.10	30.00	Rotary Core	Klemm	Apex Drilling Services	30.00	102			20/04	17:00	8.85	1.50	
									21/04	17:00	20.90	-	

Scale: 1:50
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Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples, Tests and Rotary Coring							
						Depth (m)	Ref	Core Run	FI	TCR	SCR	RQD	Tests / Results

51
52
53
54
55
56
57
58
59
60

Observations / Remarks
1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd. 2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal. 3. ES= Environmental Sample, C= Core Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample 4. Location reinstated as instructed by WSP.

Sampling Runs			
From (m)	To (m)	Diameter (mm)	Recovery %

Drilling Fluid				
From (m)	To (m)	Return Min %	Colour	Type
19.40	20.90	50	Grey	Water
20.90	22.50	50	Grey	Water
22.50	24.00	50	Grey	Water

Groundwater					
Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Hammer Information	
Serial No.	Energy Ratio %
AP3	60

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Status: FINAL

Borehole Number: **BH111**

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	0.80	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	0.80	300	1.50	165	10/03	17:00	0.40	-	
0.80	3.10	Dynamic Windowless Sampling	Klemm	Apex Drilling Services	3.10	101			24/03	17:00	3.10	1.50	
3.10	30.00	Rotary Core	Klemm	Apex Drilling Services	30.00	102			20/04	17:00	8.85	1.50	
									21/04	17:00	20.90	-	

Scale: 1:50
Checked By: JC + DD
Approved By: NB
Start Date: 10/03/2026
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Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples, Tests and Rotary Coring							
						Depth (m)	Ref	Core Run	FI	TCR	SCR	RQD	Tests / Results

61
62
63
64
65
66
67
68
69
70

Observations / Remarks
1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd. 2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal. 3. ES= Environmental Sample, C= Core Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample 4. Location reinstated as instructed by WSP.

Sampling Runs			
From (m)	To (m)	Diameter (mm)	Recovery %

Drilling Fluid				
From (m)	To (m)	Return Min %	Colour	Type
24.00	25.50	100	Grey	Water
25.50	27.00	50	Grey	Water
27.00	28.50	50	Grey	Water

Groundwater					
Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Hammer Information	
Serial No.	Energy Ratio %
AP3	60

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306138.34	Northing:	206967.33
Level:	279.87mAOD	Depth:	30.00m
Logger:	DD	Type:	DS+RC
		Inclination:	90°

Status: FINAL

Borehole Number: **BH111**

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	0.80	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	0.80	300	1.50	165	10/03	17:00	0.40	-	
0.80	3.10	Dynamic Windowless Sampling	Klemm	Apex Drilling Services	3.10	101			24/03	17:00	3.10	1.50	
3.10	30.00	Rotary Core	Klemm	Apex Drilling Services	30.00	102			20/04	17:00	8.85	1.50	
									21/04	17:00	20.90	-	

Scale: 1:50
Checked By: JC + DD
Approved By: NB
Start Date: 10/03/2026
Finish Date: 23/04/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples, Tests and Rotary Coring							
						Depth (m)	Ref	Core Run	FI	TCR	SCR	RQD	Tests / Results

71
72
73
74
75
76
77
78
79
80

Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, C= Core Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.

Sampling Runs

From (m)	To (m)	Diameter (mm)	Recovery %

Drilling Fluid

From (m)	To (m)	Return Min %	Colour	Type
28.50	30.00	50	Grey	Water

Groundwater

Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Hammer Information

Serial No.	Energy Ratio %
AP3	60

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306097.42	Northing:	206932.48
Level:	279.44mAOD	Depth:	30.00m
Logger:	DD	Type:	DS+RC
		Inclination:	90°

Status: FINAL

Borehole Number: **BH112**

Sheet 1 of 6

Method, Plant and Crew					Diameter	
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)
0.00	0.75	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	0.75	300
0.75	7.20	Dynamic Windowless Sampling	Klemm	Apex Drilling Services	5.00	101
7.20	30.00	Rotary Core	Fraste	Apex Drilling Services	30.00	102

Casing	
Depth(m)	Diam (mm)
6.60	165

Drilling Progress by Time				
Date	Time	Depth (m)	Casing (m)	Water (m)
11/03	17:00	0.75	-	
24/03	16:30	1.50	-	
25/03	17:00	7.20	-	
22/04	17:00	9.00	6.60	

Scale: 1:50
Checked By: JC + DD
Approved By: NB
Start Date: 11/03/2026
Finish Date: 24/04/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples, Tests and Rotary Coring: Depth (m)	Ref	Core Run	FI	TCR	SCR	RQD	Tests / Results
Brown sandy gravelly SILT with occasional rootlets. Sands are fine to coarse. (TOPSOIL) MGR		0.10	279.34			0.30	ES1						PID 0.30m, 0.0ppm
No representative sample available for geotechnical sampling						0.50	ES2						PID 0.50m, 0.0ppm
Dark grey silty clayey sandy angular fine to coarse GRAVEL of mudstone. Medium cobble content. Sand is fine to coarse. Cobbles are angular mudstone. (POSSIBLE SOUTH WALES LOWER COAL MEASURES) SWLCM						1.00	ES3						PID 1.00m, 0.0ppm
Extremely to very weak thinly and thickly laminated (0 to 15 degrees) light grey MUDSTONE locally weathered to clay. Discontinuities are 0 to 15 degrees along bedding, extremely closely spaced, planar to undulating, smooth and rough with localised reddish brown and orange surface staining. (SOUTH WALES LOWER COAL MEASURES) SWLCM		1.50	277.94			1.50 - 2.50	B1						SPT(C) 1.50m, N=36 (4,7/10,10,8,8)
						2.00	ES4						PID 2.00m, 0.0ppm
						2.50 - 7.80	B2						SPT(C) 2.50m, 50 (25 for 125mm/50 for 70mm)
						3.50	ES						PID 3.50m, 0.0ppm
						3.50	ES5						SPT(C) 4.00m, 50 (25 for 125mm/50 for 190mm)
From 4.20m to 6.50m bgl dark grey.													
Limited recovery. Core recovered comprises angular to subangular fine to coarse gravel sixed pieces of locally rinded moderately weak to medium strong siltstone with reddish brown surface staining. (SOUTH WALES LOWER COAL MEASURES) SWLCM		5.00	274.44					5.00 6.40		57	0	0	SPT(C) 5.00m, N=28 (2,5/5,6,7,10)
Re-drill due to change in drilling methods (Geo bore S system)						6.00	ES5						PID 6.00m, 0.0ppm
Moderately weak to medium strong very thinly bedded (0 to 5 degrees) grey SILTSTONE with closely spaced very thin beds of extremely to very weak locally fissile mudstone. Partially non intact. Discontinuities: 1) 0 to 5 degrees along bedding, very closely spaced, undulating to planar, smooth with occasional reddish brown surface staining. 2) 1 to 2no 80 to 90 degrees, planar locally curved, smooth with orange surface staining. Weathering grade III. (SOUTH WALES LOWER COAL MEASURES) SWLCM		6.40	273.04			6.90 - 6.98	C1						SPT(C) 6.50m, 50 (25 for 85mm/50 for 150mm)
								6.40 7.90		100	13	0	SPT(C) 7.20m, 50 (25 for 60mm/50 for 40mm)
Limited recovery. Core recovered as angular to subangular fine to coarse GRAVEL of moderately to medium strong siltstone and mudstone. (SOUTH WALES LOWER COAL MEASURES) SWLCM		7.90	271.54					7.90 9.00		36	0	0	
From 7.90m to 8.20m bgl recovered as slightly sandy gravelly clay.													
Strong thickly laminated to very thinly bedded (0 to 5 degrees) grey to light grey SILTSTONE with occasional very thin beds and thick laminations of fine grained sandstone. Discontinuities are 0 to 5 degrees, closely to medium spaced, undulating to planar, smooth with occasional orangish brown surface staining. Weathering grade II. (SOUTH WALES LOWER COAL MEASURES) SWLCM		9.00	270.44					9.00 9.70		100	43	14	
From 9.20m to 9.30m bgl brecciation with up to 20mm of disreminated calcite infill. *From 9.70m to 10.70m bgl discontinuities are 90 degrees, planar to irregular, rough with orange surface staining.*						9.60 - 9.70	C2						

Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, C= Core Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.
5. 3 No. variable head permeability tests undertaken at 5.0m bgl with test 1 not being able to maintain head. Calculated permeability for test 2 and 3 were 2.9x10-4.

Sampling Runs

From (m)	To (m)	Diameter (mm)	Recovery %
1.50	2.50	101	80
2.50	4.00	101	100
4.00	5.00	101	100
5.00	6.50	101	53
6.50	7.20	101	100

Drilling Fluid

From (m)	To (m)	Return Min %	Colour	Type
5.00	6.40	60	Grey	Water
6.40	7.90	0		Water
7.90	9.00	100	Grey	Water

Groundwater

Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Hammer Information

Serial No.	Energy Ratio %
AP4	81

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306097.42	Northing:	206932.48
Level:	279.44mAOD	Depth:	30.00m
Logger:	DD	Type:	DS+RC
		Inclination:	90°

Status: FINAL

Borehole Number: **BH112**

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	0.75	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	0.75	300	6.60	165	11/03	17:00	0.75	-	
0.75	7.20	Dynamic Windowless Sampling	Klemm	Apex Drilling Services	5.00	101			24/03	16:30	1.50	-	
7.20	30.00	Rotary Core	Fraste	Apex Drilling Services	30.00	102			25/03	17:00	7.20	-	
									22/04	17:00	9.00	6.60	

Scale: 1:50
Checked By: JC + DD
Approved By: NB
Start Date: 11/03/2026
Finish Date: 24/04/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples, Tests and Rotary Coring: Depth (m)	Ref	Core Run	FI	TCR	SCR	RQD	Tests / Results
Strong thickly laminated to very thinly bedded (0 to 5 degrees) grey to light grey SILTSTONE with occasional very thin beds and thick laminations of fine grained sandstone. Discontinuities are 0 to 5 degrees, closely to medium spaced, undulating to planar, smooth with occasional orangish brown surface staining. Weathering grade II. (SOUTH WALES LOWER COAL MEASURES) SWLCM						10.10 - 10.25	C3	9.70 10.70		100	65	25	
						11.40 - 11.70	C4	10.70 12.20		100	100	97	
From 13.00m to 13.25m bgl discontinuities are 90 degrees, planar to irregular, rough with orange surface staining.								12.20 13.70		97	83	53	
Moderately weak thickly laminated to very thinly bedded (0 to 5 degrees) grey MUDSTONE with closely spaced very thin beds of extremely to very weak locally fissile mudstone. Partially non intact. Discintinuites:1) 0 to 5 degrees, very closely to closely spaced, undulating to planar, smooth with occasional reddish brown surface staining. 2) 80 to 90 degrees, planar to undulating, rough and smooth with reddish brown surface staining. Weathering grade III. (SOUTH WALES LOWER COAL MEASURES) SWLCM		13.25	266.19					13.70 15.20		73	23	7	
						14.70 - 14.85	C5						
								15.20 16.50		100	38	0	
						16.30 - 16.40	C6						
						17.00 - 17.05	C7	16.50 18.00		53	37	0	
Limited recovery. Core recovered as angular to subangular fine to coarse GRAVEL of mudstone. (SOUTH WALES LOWER COAL MEASURES) SWLCM		17.40	262.04										
Non intact. Recovered as angular to subangular fine to coarse locally rinded GRAVELS of mudstone. (SOUTH WALES LOWER COAL MEASURES) SWLCM		18.00	261.44										
		18.40	261.04			18.40 - 18.55	D1						
Carbonaceous MUDSTONE. Weathered to thinly laminated (0 degrees) dark grey locally fissile clay. Weathering grade V. (SOUTH WALES LOWER COAL MEASURES) SWLCM		18.55	260.89					18.00 19.50		87	47	13	
Medium strong to strong thickly laminated to very thinly bedded (0 to 10 degrees) grey locally fossiliferous SILTSTONE with occasional very thin beds and laminations of fine grained sandstone. Discontinuities are 0 to 10 degrees along bedding, closely to medium spaced, undulating to planar, smooth. Weathering grade II. (SOUTH WALES LOWER COAL MEASURES) SWLCM													
From 18.55m to 21.55m bgl closely spaced very thin beds of extremely to very weak locally fissile mudstone.						19.80 - 19.95	C8						

Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, C= Core Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.
5. 3 No. variable head permeability tests undertaken at 5.0m bgl with test 1 not being able to maintain head. Calculated permeability for test 2 and 3 were 2.9x10-4.

Sampling Runs

From (m)	To (m)	Diameter (mm)	Recovery %

Drilling Fluid

From (m)	To (m)	Return Min %	Colour	Type
9.00	9.70	70	Grey	Water
9.70	10.70	70	Grey	Water
10.70	12.20	60	Grey	Water

Groundwater

Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Hammer Information

Serial No.	Energy Ratio %
AP4	81

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306097.42	Northing:	206932.48
Level:	279.44mAOD	Depth:	30.00m
Logger:	DD	Type:	DS+RC
		Inclination:	90°

Status: FINAL

Borehole Number: **BH112**

Sheet 3 of 6

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	0.75	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	0.75	300	6.60	165	11/03	17:00	0.75	-	
0.75	7.20	Dynamic Windowless Sampling	Klemm	Apex Drilling Services	5.00	101			24/03	16:30	1.50	-	
7.20	30.00	Rotary Core	Fraste	Apex Drilling Services	30.00	102			25/03	17:00	7.20	-	
									22/04	17:00	9.00	6.60	

Scale: 1:50
Checked By: JC + DD
Approved By: NB
Start Date: 11/03/2026
Finish Date: 24/04/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples, Tests and Rotary Coring							
						Depth (m)	Ref	Core Run	FI	TCR	SCR	RQD	Tests / Results
Medium strong to strong thickly laminated to very thinly bedded (0 to 10 degrees) grey locally fossiliferous SILTSTONE with occasional very thin beds and laminations of fine grained sandstone. Discontinuities are 0 to 10 degrees along bedding, closely to medium spaced, undulating to planar, smooth. Weathering grade II. (SOUTH WALES LOWER COAL MEASURES) SWLCM								19.50 21.00		100	73	40	
								21.00 22.20		100	92	58	
From 22.40m to 22.70m bgl discontinuities are 80 to 90 degrees, planar to locally curved, smooth and rough.						23.10 - 23.30	C9	22.20 23.70		100	93	53	
From 23.70m to 24.40m bgl discontinuities are 80 to 90 degrees, planar to locally curved, smooth and rough.								23.70 25.30		94	84	47	
From 25.70m to 26.00m bgl discontinuities are 80 to 90 degrees, planar to locally curved, smooth and rough.						25.45 - 25.70	C10	25.30 26.80		87	87	60	
						27.15 - 27.45	C11	26.80 28.40		100	97	81	
From 29.70m to 30.00m bgl discontinuities are 80 to 90 degrees, planar to locally curved, smooth and rough.						29.40 - 29.55	C12	28.40 30.00		100	100	100	
		30.00	249.44										

21 22 23 24 25 26 27 28 29 30

Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, C= Core Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.
5. 3 No. variable head permeability tests undertaken at 5.0m bgl with test 1 not being able to maintain head. Calculated permeability for test 2 and 3 were 2.9x10-4.

Sampling Runs

From (m)	To (m)	Diameter (mm)	Recovery %

Drilling Fluid

From (m)	To (m)	Return Min %	Colour	Type
12.20	13.70	70	Grey	Water
13.70	15.20	40	Grey	Water
15.20	16.50	20	Grey	Water

Groundwater

Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Hammer Information

Serial No.	Energy Ratio %
AP4	81

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306097.42	Northing:	206932.48
Level:	279.44mAOD	Depth:	30.00m
Logger:	DD	Type:	DS+RC
		Inclination:	90°

Status: FINAL

Borehole Number: **BH112**

Sheet 4 of 6

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	0.75	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	0.75	300	6.60	165	11/03	17:00	0.75	-	
0.75	7.20	Dynamic Windowless Sampling	Klemm	Apex Drilling Services	5.00	101			24/03	16:30	1.50	-	
7.20	30.00	Rotary Core	Fraste	Apex Drilling Services	30.00	102			25/03	17:00	7.20	-	
									22/04	17:00	9.00	6.60	

Scale: 1:50
Checked By: JC + DD
Approved By: NB
Start Date: 11/03/2026
Finish Date: 24/04/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples, Tests and Rotary Coring							
						Depth (m)	Ref	Core Run	FI	TCR	SCR	RQD	Tests / Results
EOH at 30.00m - Achieved target depth													

31
32
33
34
35
36
37
38
39
40

Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, C= Core Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.
5. 3 No. variable head permeability tests undertaken at 5.0m bgl with test 1 not being able to maintain head. Calculated permeability for test 2 and 3 were 2.9x10-4.

Sampling Runs

From (m)	To (m)	Diameter (mm)	Recovery %

Drilling Fluid

From (m)	To (m)	Return Min %	Colour	Type
16.50	18.00	30	Grey	Water
18.00	19.50	30	Grey	Water
19.50	21.00	30	Grey	Water

Groundwater

Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Hammer Information

Serial No.	Energy Ratio %
AP4	81

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306097.42	Northing:	206932.48
Level:	279.44mAOD	Depth:	30.00m
Logger:	DD	Type:	DS+RC
		Inclination:	90°

Status: FINAL

Borehole Number: **BH112**

Sheet 5 of 6

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	0.75	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	0.75	300	6.60	165	11/03	17:00	0.75	-	
0.75	7.20	Dynamic Windowless Sampling	Klemm	Apex Drilling Services	5.00	101			24/03	16:30	1.50	-	
7.20	30.00	Rotary Core	Fraste	Apex Drilling Services	30.00	102			25/03	17:00	7.20	-	
									22/04	17:00	9.00	6.60	

Scale: 1:50
Checked By: JC + DD
Approved By: NB
Start Date: 11/03/2026
Finish Date: 24/04/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples, Tests and Rotary Coring							
						Depth (m)	Ref	Core Run	FI	TCR	SCR	RQD	Tests / Results

41
42
43
44
45
46
47
48
49
50

Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, C= Core Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.
5. 3 No. variable head permeability tests undertaken at 5.0m bgl with test 1 not being able to maintain head. Calculated permeability for test 2 and 3 were 2.9x10-4.

Sampling Runs

From (m)	To (m)	Diameter (mm)	Recovery %

Drilling Fluid

From (m)	To (m)	Return Min %	Colour	Type
21.00	22.20	10	Grey	Water
22.20	23.70	10	Grey	Water
23.70	25.30	10	Grey	Water

Groundwater

Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Hammer Information

Serial No.	Energy Ratio %
AP4	81

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details

Easting: 306097.42 Northing: 206932.48

Level: 279.44mAOD Depth: 30.00m

Logger: DD Type: DS+RC

Inclination: 90°

Status: FINAL

Borehole Number: **BH112**

Sheet 6 of 6

Method, Plant and Crew

From (m)	To (m)	Type	Plant Used	Crew
0.00	0.75	Inspection Pit	Hand Excavation Tools	Apex Drilling Services
0.75	7.20	Dynamic Windowless Sampling	Klemm	Apex Drilling Services
7.20	30.00	Rotary Core	Fraste	Apex Drilling Services

Diameter

Depth (m)	Diam (mm)
0.75	300
5.00	101
30.00	102

Casing

Depth(m)	Diam (mm)
6.60	165

Drilling Progress by Time

Date	Time	Depth (m)	Casing (m)	Water (m)
11/03	17:00	0.75	-	
24/03	16:30	1.50	-	
25/03	17:00	7.20	-	
22/04	17:00	9.00	6.60	

Scale: 1:50

Checked By: JC + DD

Approved By: NB

Start Date: 11/03/2026

Finish Date: 24/04/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples, Tests and Rotary Coring: Depth (m)	Ref	Core Run	FI	TCR	SCR	RQD	Tests / Results

51 52 53 54 55 56 57 58 59 60

Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, C= Core Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.
5. 3 No. variable head permeability tests undertaken at 5.0m bgl with test 1 not being able to maintain head. Calculated permeability for test 2 and 3 were 2.9x10-4.

Sampling Runs

From (m)	To (m)	Diameter (mm)	Recovery %

Drilling Fluid

From (m)	To (m)	Return Min %	Colour	Type
25.30	26.80	10	Grey	Water
26.80	28.40	10	Grey	Water
28.40	30.00	0		Water

Groundwater

Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Hammer Information

Serial No.	Energy Ratio %
AP4	81

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306122.95	Northing:	206913.55
Level:	279.83mAOD	Depth:	30.10m
Logger:	DD	Type:	DS+RC
		Inclination:	90°

Status: FINAL

Borehole Number: **BH113**

Sheet 1 of 7

Method, Plant and Crew					Diameter	
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)
0.00	0.80	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	0.80	300
0.80	2.10	Dynamic Windowless Sampling	Klemm	Apex Drilling Services	2.10	101
2.10	30.10	Rotary Core	Klemm	Apex Drilling Services	30.10	102

Casing	
Depth(m)	Diam (mm)

Drilling Progress by Time				
Date	Time	Depth (m)	Casing (m)	Water (m)
25/03	17:00	2.10	-	
23/04	17:00	2.10	-	
24/04	17:00	13.00	-	
27/04	17:00	20.00	-	
28/04	17:00	27.20	-	

Scale: 1:50
Checked By: JC + DD
Approved By: NB
Start Date: 25/03/2026
Finish Date: 29/04/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples, Tests and Rotary Coring: Depth (m)	Ref	Core Run	FI	TCR	SCR	RQD	Tests / Results
MADE GROUND: Dark brownish grey clayey slightly gravelly SAND with low cobble content. Gravel is very angular to subrounded fine to coarse of sandstone, siltstone and mudstone. Cobbles are angular to subrounded of siltstone and mudstone with frequent rootlets. Sands are fine to coarse.						0.30	ES1						
						0.50	ES2						
MGR													
No representative sample available for geotechnical sampling		0.80	279.03			0.80	ES3						
Firm to stiff slightly sandy gravelly CLAY with medium to high cobble content. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse siltstone with orange surface staining. Cobbles are angular to subangular (to 80mm) siltstone with orange surface staining. (POSSIBLE SOUTH WALES LOWER COAL MEASURES) SWLCM													SPT(C) 1.50m, N=23 (4,3/4,5,5,9)
						2.00	ES4						PID 2.00m, 0.0ppm SPT(C) 2.10m, 50 (25 for 69mm/50 for 23mm)
Moderately weak to medium strong thickly laminated to very thinly bedded (0 to 5 degrees) grey and light grey SILTSTONE. with occasional thin beds of mudstone. Discontinuities: 1) 0 to 5 degrees, closely spaced, planar, smooth with orange surface staining and light brown discolouration penetrating to 10mm. 2) 30 degrees, closely to medium spaced, planar, smooth with orange surface staining. Weathering grade III. (SOUTH WALES LOWER COAL MEASURES) SWLCM		2.10	277.73					2.10 3.00		100	22	0	
From 2.10m to 2.70m bgl discontinuities are 80 to 90 degrees (1 to 2no), stepped, rough with reddish brown surface staining and localised calcite infill to 1mm. From 2.90m to 3.20m bgl discontinuities are 80 to 90 degrees (1 to 2no), stepped, rough with reddish brown surface staining and localised calcite infill to 1mm. From 3.20m to 3.50m bgl discontinuities are 60 degrees, planar, smooth with up to 1mm of orange silt infill.						3.80 - 4.00	C1	3.00 4.50		100	100	53	
Extremely to very weak thinly laminated grey locally fissile MUDSTONE. Partially weathered to clay. Extremely to very closely spaced locally discernible 0 to 30 and 45 degrees. Partially non intact. Weathering grade IV. (SOUTH WALES LOWER COAL MEASURES) SWLCM		4.80	275.03					4.50 6.00		100	13	0	
From 5.00m to 5.30m bgl locally moderately weak.													
Moderately weak to medium strong very thinly bedded (0 to 5 degrees) grey slightly carbonaceous SILTSTONE with closely to medium spaced very thin beds of extremely to very weak fissile mudstone. Discontinuities are 0 to 5 degrees along bedding, closely spaced, planar, smooth. (SOUTH WALES LOWER COAL MEASURES) SWLCM		5.90	273.93			6.60 - 6.70	C2	6.00 7.50		100	77	23	
From 7.10m to 7.30m bgl discontinuities are 1no 90 degrees, undulating to stepped, rough with orange surface staining.													
From 7.50m to 8.50m bgl occasional Brachiopod shells concentrated along bedding.						7.70 - 7.90	C3	7.50 8.50		100	35	30	
From 8.00m to 9.20m bgl discontinuities are 2 to 3no 80 degrees, planar, smooth with localised orange surface staining.													
From 8.50m to 9.20m bgl non intact with limited recovery.								8.50 10.00		87	33	23	
From 9.85m to 10.00m bgl strong fine grained sandstone.													

Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, C= Core Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.

Sampling Runs

From (m)	To (m)	Diameter (mm)	Recovery %
0.80	1.50	101	53
1.50	2.10	101	75

Drilling Fluid

From (m)	To (m)	Return Min %	Colour	Type
2.10	3.00	100	Grey	Water
3.00	4.50	100	Grey	Water
4.50	6.00	100	Grey	Water

Groundwater

Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Hammer Information

Serial No.	Energy Ratio %
AP5	64

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306122.95	Northing:	206913.55
Level:	279.83mAOD	Depth:	30.10m
Logger:	DD	Type:	DS+RC
		Inclination:	90°

Status: FINAL

Borehole Number: **BH113**

Sheet 2 of 7

Method, Plant and Crew					Diameter	
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)
0.00	0.80	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	0.80	300
0.80	2.10	Dynamic Windowless Sampling	Klemm	Apex Drilling Services	2.10	101
2.10	30.10	Rotary Core	Klemm	Apex Drilling Services	30.10	102

Casing	
Depth(m)	Diam (mm)

Drilling Progress by Time				
Date	Time	Depth (m)	Casing (m)	Water (m)
25/03	17:00	2.10	-	
23/04	17:00	2.10	-	
24/04	17:00	13.00	-	
27/04	17:00	20.00	-	
28/04	17:00	27.20	-	

Scale: 1:50
Checked By: JC + DD
Approved By: NB
Start Date: 25/03/2026
Finish Date: 29/04/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples, Tests and Rotary Coring: Depth (m)	Ref	Core Run	FI	TCR	SCR	RQD	Tests / Results
Moderately weak to medium strong very thinly bedded (0 to 5 degrees) grey slightly carbonaceous SILTSTONE with closely to medium spaced very thin beds of extremely to very weak fissile mudstone. Discontinuities are 0 to 5 degrees along bedding, closely spaced, planar, smooth. (SOUTH WALES LOWER COAL MEASURES) SWLCM *From 10.30m to 12.00m bgl predominately non intact with locally discernible 30 and 80 degrees, planar, smooth discontinuities.*						10.10 - 10.20	C4	10.00 11.50		100	30	30	
From 12.00m to 12.15m bgl extremely to very weak thinly laminated dark grey fissile mudstone locally weathered to clay. *From 12.30m to 12.40m bgl disseminated calcite infill to 10mm.*						11.60 - 11.75	C5	11.50 13.00		100	47	27	
Medium strong to strong thickly laminated to very thinly bedded (0 to 5 degrees) grey SILTSTONE with occasional thin laminated of fine sandstone. Discontinuities are 0 to 5 degrees along bedding, closely spaced, planar, smooth with occasional light orange discolouration. (SOUTH WALES LOWER COAL MEASURES) SWLCM *From 12.80m to 14.30m bgl discontinuities are 80 to 90 degrees (1 to 2no), undulating to stepped, rough with dark reddish brown and orange surface staining and a reduction in strength penetrating wall (2 to 5mm)*		12.80	267.03									
						14.50 - 14.80	C6	13.00 14.50		100	53	40	
From 15.30m to 16.60m bgl discontinuity is 80 to 90 degrees (1no), planar to curved, smooth with orangish brown surface staining.								14.50 15.70		100	83	75	
								15.70 17.00		54	46	19	
No recovery.		16.60	263.23										
Moderately weak to medium strong very thinly bedded (0 to 5 degrees) grey to dark grey slightly carbonaceous SILTSTONE. Discontinuities: 1) 0 to 5 degrees along bedding, closely spaced, planar, smooth. 2) 80 to 90 degrees, planar locally curved, smooth with reddish brown surface staining. (SOUTH WALES LOWER COAL MEASURES) SWLCM *From 17.00m to 17.80m bgl non intact. Recovered as angular to subangular fine to coarse gravel.*		17.00	262.83					17.00 18.50		73	33	17	
						18.20 - 18.30	C7						
From 18.90m to 19.40m bgl thin beds (50 to 80mm) of ironstone with reddish brown staining/ discolouration. Partially non intact. Possible Haematite staining.						18.80 - 18.90	C8	18.50 20.00		100	40	13	
		20.00	259.83										

Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, C= Core Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.

Sampling Runs

From (m)	To (m)	Diameter (mm)	Recovery %

Drilling Fluid

From (m)	To (m)	Return Min %	Colour	Type
6.00	7.50	100	Black	Water
7.50	8.50	80	Grey	Water
8.50	10.00	80	Grey	Water

Groundwater

Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Hammer Information

Serial No.	Energy Ratio %
AP5	64

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306122.95	Northing:	206913.55
Level:	279.83mAOD	Depth:	30.10m
Logger:	DD	Type:	DS+RC
		Inclination:	90°

Status: FINAL

Borehole Number: **BH113**

Method, Plant and Crew					Diameter	
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)
0.00	0.80	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	0.80	300
0.80	2.10	Dynamic Windowless Sampling	Klemm	Apex Drilling Services	2.10	101
2.10	30.10	Rotary Core	Klemm	Apex Drilling Services	30.10	102

Casing		Drilling Progress by Time				
Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
		25/03	17:00	2.10	-	
		23/04	17:00	2.10	-	
		24/04	17:00	13.00	-	
		27/04	17:00	20.00	-	
		28/04	17:00	27.20	-	

Scale: 1:50
Checked By: JC + DD
Approved By: NB
Start Date: 25/03/2026
Finish Date: 29/04/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples, Tests and Rotary Coring							
						Depth (m)	Ref	Core Run	FI	TCR	SCR	RQD	Tests / Results
Non intact. Recovered as slightly clayey angular to subangular fine to coarse GRAVEL of siltstone and mudstone. (SOUTH WALES LOWER COAL MEASURES) SWLCM								20.00 21.20		83	8	8	
Strong thickly laminated to very thinly bedded (0 to 10 degrees) grey and light grey SILTSTONE with frequent very thin to thin beds of fine sandstone and occasional very thin beds of carbonaceous mudstone. Discontinuities are 0 to 10 degrees along bedding, closely spaced, planar to undulating, smooth and rough. (SOUTH WALES LOWER COAL MEASURES) SWLCM		21.10	258.73			21.10 - 21.20	C9						
						21.80 - 21.95	C10	21.20 21.95		67	67	53	
								21.95 22.70		100	47	13	
						23.50 - 23.60	C11	22.70 24.20		53	33	13	
From 24.20m to 25.40m bgl discontinuities are 70 degrees, medium spaced, planar to undulating, rough.						24.40 - 24.70	C12						
From 25.00m to 25.70m bgl discontinuities are 90 degrees, undulating to stepped, rough.								24.20 25.70		100	87	60	
						26.70 - 26.90	C13	25.70 27.20		100	93	93	
						27.85 - 28.05	C14	27.20 28.70		100	93	67	
						29.25 - 29.45	C15	28.70 30.10		100	82	64	

Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, C= Core Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.

Sampling Runs			
From (m)	To (m)	Diameter (mm)	Recovery %

Drilling Fluid				
From (m)	To (m)	Return Min %	Colour	Type
10.00	11.50	80	Grey	Water
11.50	13.00	80	Grey	Water
13.00	14.50	100	Grey	Water

Groundwater					
Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Hammer Information	
Serial No.	Energy Ratio %
AP5	64

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306122.95	Northing:	206913.55
Level:	279.83mAOD	Depth:	30.10m
Logger:	DD	Type:	DS+RC
		Inclination:	90°

Status: FINAL

Borehole Number: **BH113**

Method, Plant and Crew					Diameter	
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)
0.00	0.80	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	0.80	300
0.80	2.10	Dynamic Windowless Sampling	Klemm	Apex Drilling Services	2.10	101
2.10	30.10	Rotary Core	Klemm	Apex Drilling Services	30.10	102

Casing	
Depth(m)	Diam (mm)

Drilling Progress by Time				
Date	Time	Depth (m)	Casing (m)	Water (m)
25/03	17:00	2.10	-	
23/04	17:00	2.10	-	
24/04	17:00	13.00	-	
27/04	17:00	20.00	-	
28/04	17:00	27.20	-	

Scale:	1:50
Checked By:	JC + DD
Approved By:	NB
Start Date:	25/03/2026
Finish Date:	29/04/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples, Tests and Rotary Coring: Depth (m)	Ref	Core Run	FI	TCR	SCR	RQD	Tests / Results
Strong thickly laminated to very thinly bedded (0 to 10 degrees) grey and light grey SILTSTONE with frequent very thin to thin beds of fine sandstone and occasional very thin beds of carbonaceous mudstone. Discontinuities are 0 to 10 degrees along bedding, closely spaced, planar to undulating, smooth and rough. (SOUTH WALES LOWER COAL MEASURES) SWLCM	× × × × ×	30.10	249.73										
EOH at 30.10m - Achieved target depth													

31 32 33 34 35 36 37 38 39 40

Observations / Remarks
1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd. 2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal. 3. ES= Environmental Sample, C= Core Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample 4. Location reinstated as instructed by WSP.

Sampling Runs			
From (m)	To (m)	Diameter (mm)	Recovery %

Drilling Fluid				
From (m)	To (m)	Return Min %	Colour	Type
14.50	15.70	100	Grey	Water
15.70	17.00	100	Grey	Water
17.00	18.50	100	Grey	Water

Groundwater					
Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Hammer Information	
Serial No.	Energy Ratio %
AP5	64

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306122.95	Northing:	206913.55
Level:	279.83mAOD	Depth:	30.10m
Logger:	DD	Type:	DS+RC
		Inclination:	90°

Status: FINAL

Borehole Number: **BH113**

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	0.80	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	0.80	300			25/03	17:00	2.10	-	
0.80	2.10	Dynamic Windowless Sampling	Klemm	Apex Drilling Services	2.10	101			23/04	17:00	2.10	-	
2.10	30.10	Rotary Core	Klemm	Apex Drilling Services	30.10	102			24/04	17:00	13.00	-	
									27/04	17:00	20.00	-	
									28/04	17:00	27.20	-	

Scale: 1:50
Checked By: JC + DD
Approved By: NB
Start Date: 25/03/2026
Finish Date: 29/04/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples, Tests and Rotary Coring							
						Depth (m)	Ref	Core Run	FI	TCR	SCR	RQD	Tests / Results

41
42
43
44
45
46
47
48
49
50

Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, C= Core Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.

Sampling Runs

From (m)	To (m)	Diameter (mm)	Recovery %

Drilling Fluid

From (m)	To (m)	Return Min %	Colour	Type
18.50	20.00	100	Grey	Water
20.00	21.20	50	Grey	Water
21.20	21.95	50	Grey	Water

Groundwater

Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Hammer Information

Serial No.	Energy Ratio %
AP5	64

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306122.95	Northing:	206913.55
Level:	279.83mAOD	Depth:	30.10m
Logger:	DD	Type:	DS+RC
		Inclination:	90°

Status: FINAL

Borehole Number: **BH113**

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	0.80	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	0.80	300			25/03	17:00	2.10	-	
0.80	2.10	Dynamic Windowless Sampling	Klemm	Apex Drilling Services	2.10	101			23/04	17:00	2.10	-	
2.10	30.10	Rotary Core	Klemm	Apex Drilling Services	30.10	102			24/04	17:00	13.00	-	
									27/04	17:00	20.00	-	
									28/04	17:00	27.20	-	

Scale: 1:50
Checked By: JC + DD
Approved By: NB
Start Date: 25/03/2026
Finish Date: 29/04/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples, Tests and Rotary Coring							
						Depth (m)	Ref	Core Run	FI	TCR	SCR	RQD	Tests / Results

51
52
53
54
55
56
57
58
59
60

Observations / Remarks
1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd. 2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal. 3. ES= Environmental Sample, C= Core Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample 4. Location reinstated as instructed by WSP.

Sampling Runs			
From (m)	To (m)	Diameter (mm)	Recovery %

Drilling Fluid				
From (m)	To (m)	Return Min %	Colour	Type
21.95	22.70	50	Grey	Water
22.70	24.20	50	Grey	Water
24.20	25.70	50	Grey	Water

Groundwater					
Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Hammer Information	
Serial No.	Energy Ratio %
AP5	64

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306122.95	Northing:	206913.55
Level:	279.83mAOD	Depth:	30.10m
Logger:	DD	Type:	DS+RC
		Inclination:	90°

Status: FINAL

Borehole Number: **BH113**

Sheet 7 of 7

Scale: 1:50
Checked By: JC + DD
Approved By: NB
Start Date: 25/03/2026
Finish Date: 29/04/2026

Method, Plant and Crew					Diameter	
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)
0.00	0.80	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	0.80	300
0.80	2.10	Dynamic Windowless Sampling	Klemm	Apex Drilling Services	2.10	101
2.10	30.10	Rotary Core	Klemm	Apex Drilling Services	30.10	102

Casing	
Depth(m)	Diam (mm)

Drilling Progress by Time				
Date	Time	Depth (m)	Casing (m)	Water (m)
25/03	17:00	2.10	-	
23/04	17:00	2.10	-	
24/04	17:00	13.00	-	
27/04	17:00	20.00	-	
28/04	17:00	27.20	-	

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples, Tests and Rotary Coring: Depth (m)	Ref	Core Run	FI	TCR	SCR	RQD	Tests / Results

61
62
63
64
65
66
67
68
69
70

Observations / Remarks
1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd. 2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal. 3. ES= Environmental Sample, C= Core Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample 4. Location reinstated as instructed by WSP.

Sampling Runs			
From (m)	To (m)	Diameter (mm)	Recovery %

Drilling Fluid				
From (m)	To (m)	Return Min %	Colour	Type
25.70	27.20	50	Grey	Water
27.20	28.70	0		Water
28.70	30.10	0		Water

Groundwater					
Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Hammer Information	
Serial No.	Energy Ratio %
AP5	64

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306109.67	Northing:	206878.21
Level:	279.46mAOD	Depth:	30.60m
Logger:	DD	Type:	DS+RC
		Inclination:	90°

Status: FINAL

Borehole Number: **BH114**

Sheet 1 of 7

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	1.20	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	1.20	300	3.00	165	11/03	17:00	1.20	-	
1.20	1.90	Dynamic Windowless Sampling	Klemm	Apex Drilling Services	1.90	101			25/03	17:00	1.90	-	
1.90	30.60	Rotary Core	Fraste	Apex Drilling Services	30.60	102			27/04	17:00	6.40	3.00	
									28/04	17:00	23.00	-	
									29/04	17:00	30.60	-	

Scale: 1:50
Checked By: JC + DD
Approved By: NB
Start Date: 11/03/2026
Finish Date: 29/04/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples, Tests and Rotary Coring: Depth (m)	Ref	Core Run	FI	TCR	SCR	RQD	Tests / Results
MADE GROUND: Firm grey to dark grey gravelly CLAY. Gravel is angular to subangular fine to coarse carbonaceous mudstone. Limited recovery. MGR						0.30	ES1						PID 0.30m, 0.0ppm
						0.50	ES2						PID 0.50m, 0.0ppm
						1.00	ES3						PID 1.00m, 0.0ppm
													SPT(C) 1.50m, N=50 (2,2/50 for 297mm)
From 1.80m bgl low cobble content. Cobbles are angular siltstone.													
Strong thickly laminated (0 to 30 degrees) light grey fine grained SANDSTONE. Discontinuities are 0 to 30 degrees along bedding, closely spaced, planar to undulating, smooth and rough with orange surface staining. Weathering grade III. (SOUTH WALES LOWER COAL MEASURES) SWLCM		1.90	277.56					1.90 2.40		100	16	0	SPT(C) 1.90m, 50 (25 for 31mm/50 for 27mm)
From 1.90m to 2.60m bgl discontinuities are 90 degrees (2no), planar locally curved, smooth with orange and reddish brown surface staining. *Partially non intact with locally discernible 90 degrees discontinuity and speckled calcite on surfaces.*								2.40 3.90		100	40	33	SPT(C) 2.90m, N=40 (6,9/9,9,10,12)
Medium strong laminated to very thinly bedded (0 to 10 degrees) grey SILTSTONE with medium spaced very thin beds of moderately weak to weak mudstone. Discontinuities are 0 to 10 degrees along bedding, closely spaced, planar, smooth with localised orange surface staining. Weathering grade III. (SOUTH WALES LOWER COAL MEASURES) SWLCM		3.70	275.76			3.70 - 3.90	C1						
								3.90 4.90		100	35	10	SPT(C) 3.90m, 50 (25 for 140mm/50 for 95mm)
From 4.90m to 7.60m bgl 80 to 90 degrees (1 to 2no), planar, smooth with orange and reddish brown surface staining and a reduction in strength penetrating walls (1 to 2mm)								4.90 6.40		93	33	20	SPT(C) 4.90m, 50 (25 for 10mm/50 for 95mm)
						6.70 - 6.80	C2						
From 7.10m to 7.20m bgl frequent subrouned (40 to 60mm) nodule of siderite. *From 7.20m to 7.60m bgl weak mudstone. Partially weathered to clay.*								6.40 7.90		73	10	0	
Limited recovery. SWLCM		7.60	271.86										
Weathered MUDSTONE to stiff grey gravelly clay. Gravel is angular to tabular fine to coarse locally ordered lithorelicts of weak to medium strong mudstone with vivid orange staining. Weathering grade IV to V. (SOUTH WALES LOWER COAL MEASURES) SWLCM		7.90	271.56										
Moderately weathered to medium strong thickly laminated to very thinly interbedded (0 to 10 degrees) grey SILTSTONE and MUDSTONE with closely spaced very thin beds of very weak locally fissile mudstone. Discontinuities are 0 to 10 degrees along bedding, closely spaced, planar to undulating, smooth with occasional light brown discolouration. (SOUTH WALES LOWER COAL MEASURES) SWLCM		8.55	270.91			8.50 - 8.60	C3	7.90 9.40		87	20	13	
From 9.40m to 10.00m bgl non intact. Recovered as subangular medium to coarse gravel. *From 9.40m to 10.60m bgl discontinuities are 80 to 90 degrees, planar, smooth with orange surface staining. Partially non intact.*													

Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, C= Core Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.

Sampling Runs

From (m)	To (m)	Diameter (mm)	Recovery %
1.20	1.50	101	66
1.50	1.90	101	63

Drilling Fluid

From (m)	To (m)	Return Min %	Colour	Type
1.90	2.90	50	Grey	Water
2.90	3.90	50	Grey	Water
3.90	4.90	30	Grey	Water

Groundwater

Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Hammer Information

Serial No.	Energy Ratio %
AP3	60
AP5	64

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306109.67	Northing:	206878.21
Level:	279.46mAOD	Depth:	30.60m
Logger:	DD	Type:	DS+RC
		Inclination:	90°

Status: FINAL

Borehole Number: **BH114**

Sheet 2 of 7

Method, Plant and Crew					Diameter	
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)
0.00	1.20	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	1.20	300
1.20	1.90	Dynamic Windowless Sampling	Klemm	Apex Drilling Services	1.90	101
1.90	30.60	Rotary Core	Fraste	Apex Drilling Services	30.60	102

Casing	
Depth(m)	Diam (mm)
3.00	165

Drilling Progress by Time				
Date	Time	Depth (m)	Casing (m)	Water (m)
11/03	17:00	1.20	-	
25/03	17:00	1.90	-	
27/04	17:00	6.40	3.00	
28/04	17:00	23.00	-	
29/04	17:00	30.60	-	

Scale: 1:50
Checked By: JC + DD
Approved By: NB
Start Date: 11/03/2026
Finish Date: 29/04/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples, Tests and Rotary Coring: Depth (m)	Ref	Core Run	FI	TCR	SCR	RQD	Tests / Results
Moderately weathered to medium strong thickly laminated to very thinly interbedded (0 to 10 degrees) grey SILTSTONE and MUDSTONE with closely spaced very thin beds of very weak locally fissile mudstone. Discontinuities are 0 to 10 degrees along bedding, closely spaced, planar to undulating, smooth with occasional light brown discolouration. (SOUTH WALES LOWER COAL MEASURES) SWLCM *From 10.60m to 11.10m bgl non intact. Recovered as subangular fine to medium gravel.* *From 11.30m to 12.60m bgl discontinuities are 80 to 90 degrees, planar, smooth with orange surface staining. Partially non intact.* *From 12.10m to 12.70m bgl slightly carbonaceous.* *From 13.60m to 14.00m bgl non intact with locally discernible 80 to 90 degrees discontinuity.*						10.40 - 10.60 11.35 - 11.45 13.30 - 13.35	C4 C5 C6	9.40 10.60 10.60 12.10 12.10 13.60		100 100 100	38 13 30	21 0 0	
Medium strong to strong thickly laminated to very thinly bedded (0 to 10 degrees) light grey SILTSTONE with occasional thin laminations of fine sandstone. Discontinuities are 0 to 10 degrees along bedding, closely spaced planar to undulating, smooth. (SOUTH WALES LOWER COAL MEASURES) SWLCM *From 14.00m to 15.60m bgl discontinuities are 80 to 90 degrees (1 to 2no), planar, smooth with light orangish brown discolouration and <1mm of calcite infill.* *From 14.70m to 15.10m bgl occasional very thin beds of weak mudstone. Partially non intact.* *From 15.90m to 16.60m bgl discontinuities are 80 to 90 degrees (1 to 2no), planar, smooth with light orangish brown discolouration and <1mm of calcite infill.* *From 16.70m to 16.90m bgl partially non intact.*		14.00	265.46			14.10 - 14.30 15.60 - 15.75	C7 C8	13.60 15.10 15.10 16.60		100 100	30 73	20 67	
VOID/Possible workings SWLCM		16.90	262.56					16.60 18.50		58	11	0	
Moderately weak to medium strong very thinly bedded (0 to 10 degrees) grey slightly carbonaceous SILTSTONE. Discontinuities are 0 to 10 degrees along bedding, closely spaced, undulating to planar, smooth with occasional light brown discolouration. Weathering grade III. (SOUTH WALES LOWER COAL MEASURES) SWLCM *From 19.60m to 20.00m bgl limited recovery.*		17.80	261.66			18.10 - 18.20 19.30 - 19.40	C9 C10	18.50 20.00		87	10	7	

Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, C= Core Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.

Sampling Runs

From (m)	To (m)	Diameter (mm)	Recovery %

Drilling Fluid

From (m)	To (m)	Return Min %	Colour	Type
4.90	6.40	50	Grey	Water
6.40	7.90	50	Grey	Water
7.90	9.40	30	Grey	Water

Groundwater

Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Hammer Information

Serial No.	Energy Ratio %
AP3	60
AP5	64

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306109.67	Northing:	206878.21
Level:	279.46mAOD	Depth:	30.60m
Logger:	DD	Type:	DS+RC
		Inclination:	90°

Status: FINAL

Borehole Number: **BH114**

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	1.20	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	1.20	300	3.00	165	11/03	17:00	1.20	-	
1.20	1.90	Dynamic Windowless Sampling	Klemm	Apex Drilling Services	1.90	101			25/03	17:00	1.90	-	
1.90	30.60	Rotary Core	Fraste	Apex Drilling Services	30.60	102			27/04	17:00	6.40	3.00	
									28/04	17:00	23.00	-	
									29/04	17:00	30.60	-	

Scale: 1:50
Checked By: JC + DD
Approved By: NB
Start Date: 11/03/2026
Finish Date: 29/04/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples, Tests and Rotary Coring: Depth (m)	Ref	Core Run	FI	TCR	SCR	RQD	Tests / Results
Moderately weak to medium strong very thinly bedded (0 to 10 degrees) grey slightly carbonaceous SILTSTONE. Discontinuities are 0 to 10 degrees along bedding, closely spaced, undulating to planar, smooth with occasional light brown discolouration. Weathering grade III. (SOUTH WALES LOWER COAL MEASURES) SWLCM *From 20.00m to 20.30m bgl frequent (40 to 50mm) beds of ironstone.*		20.30	259.16					20.00 21.50		100	20	0	
Extremely to very weak thickly laminated (0 to 5 degrees) dark grey locally fossiliferous carbonaceous MUDSTONE. Discontinuities are 0 to 5 degrees along bedding, extremely to very closely spaced, planar to undulating, smooth. Weathering grade IV. (SOUTH WALES LOWER COAL MEASURES) SWLCM *From 21.50m to 22.70m bgl non intact. Recovered as subangular fine to medium occasional coarse gravel with traces of coal.*								21.50 23.00		93	10	0	
Moderately weak very thinly bedded (0 to 10 degrees) grey to dark grey locally fossiliferous slightly carbonaceous MUDSTONE. Discontinuities are 0 to 10 degrees along bedding, closely spaced, planar to undulating, rough. (SOUTH WALES LOWER COAL MEASURES) SWLCM *From 24.00m to 24.15m bgl strong light grey fine grained sandstone.*		22.70	256.76			23.85 - 24.05	C11	23.00 24.50		100	60	37	
Strong thickly laminated to very thinly bedded (0 to 30 degrees) grey and light grey SILTSTONE with frequent thin laminations of fine grained sandstone. Discontinuities are 0 to 30 degrees along bedding, medium spaced, planar to undulating, rough. Weathering grade II. (SOUTH WALES LOWER COAL MEASURES) SWLCM *From 28.20m to 30.60m bgl discontinuities are 70 degrees, closely to medium spaced, undulating to stepped.*		24.60	254.86			26.20 - 26.50 28.70 - 29.00	C12 C13	24.50 26.10 26.10 27.60 27.60 29.10 29.10 30.60		100 100 100 100	100 100 100 97	100 90 100 97	

Observations / Remarks
1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd. 2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal. 3. ES= Environmental Sample, C= Core Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample 4. Location reinstated as instructed by WSP.

Sampling Runs			
From (m)	To (m)	Diameter (mm)	Recovery %

Drilling Fluid				
From (m)	To (m)	Return Min %	Colour	Type
9.40	10.60	10	Grey	Water
10.60	12.10	10	Grey	Water
12.10	13.60	30	Grey	Water

Groundwater					
Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Hammer Information	
Serial No.	Energy Ratio %
AP3	60
AP5	64

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306109.67	Northing:	206878.21
Level:	279.46mAOD	Depth:	30.60m
Logger:	DD	Type:	DS+RC
		Inclination:	90°

Status: FINAL

Borehole Number: **BH114**

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	1.20	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	1.20	300	3.00	165	11/03	17:00	1.20	-	
1.20	1.90	Dynamic Windowless Sampling	Klemm	Apex Drilling Services	1.90	101			25/03	17:00	1.90	-	
1.90	30.60	Rotary Core	Fraste	Apex Drilling Services	30.60	102			27/04	17:00	6.40	3.00	
									28/04	17:00	23.00	-	
									29/04	17:00	30.60	-	

Scale: 1:50
Checked By: JC + DD
Approved By: NB
Start Date: 11/03/2026
Finish Date: 29/04/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples, Tests and Rotary Coring: Depth (m)	Ref	Core Run	FI	TCR	SCR	RQD	Tests / Results
Strong thickly laminated to very thinly bedded (0 to 30 degrees) grey and light grey SILTSTONE with frequent thin laminations of fine grained sandstone. Discontinuities are 0 to 30 degrees along bedding, medium spaced, planar to undulating, rough. Weathering grade II. (SOUTH WALES LOWER COAL MEASURES) SWLCM						30.40 - 30.60	C14						
		30.60	248.86										
EOH at 30.60m - Achieved target depth													

31 32 33 34 35 36 37 38 39 40

Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, C= Core Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.

Sampling Runs

From (m)	To (m)	Diameter (mm)	Recovery %

Drilling Fluid

From (m)	To (m)	Return Min %	Colour	Type
13.60	15.10	30	Grey	Water
15.10	16.60	50	Grey	Water
16.60	18.50	0		Water

Groundwater

Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Hammer Information

Serial No.	Energy Ratio %
AP3	60
AP5	64

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306109.67	Northing:	206878.21
Level:	279.46mAOD	Depth:	30.60m
Logger:	DD	Type:	DS+RC
		Inclination:	90°

Status: FINAL

Borehole Number: **BH114**

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	1.20	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	1.20	300	3.00	165	11/03	17:00	1.20	-	
1.20	1.90	Dynamic Windowless Sampling	Klemm	Apex Drilling Services	1.90	101			25/03	17:00	1.90	-	
1.90	30.60	Rotary Core	Fraste	Apex Drilling Services	30.60	102			27/04	17:00	6.40	3.00	
									28/04	17:00	23.00	-	
									29/04	17:00	30.60	-	

Scale:	1:50
Checked By:	JC + DD
Approved By:	NB
Start Date:	11/03/2026
Finish Date:	29/04/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples, Tests and Rotary Coring							
						Depth (m)	Ref	Core Run	FI	TCR	SCR	RQD	Tests / Results

41
42
43
44
45
46
47
48
49
50

Observations / Remarks
1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd. 2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal. 3. ES= Environmental Sample, C= Core Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample 4. Location reinstated as instructed by WSP.

Sampling Runs			
From (m)	To (m)	Diameter (mm)	Recovery %

Drilling Fluid				
From (m)	To (m)	Return Min %	Colour	Type
18.50	20.00	0		Water
20.00	21.50	0		Water
21.50	23.00	0		Water

Groundwater					
Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Hammer Information	
Serial No.	Energy Ratio %
AP3	60
AP5	64

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306109.67	Northing:	206878.21
Level:	279.46mAOD	Depth:	30.60m
Logger:	DD	Type:	DS+RC
		Inclination:	90°

Status: FINAL

Borehole Number: **BH114**

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	1.20	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	1.20	300	3.00	165	11/03	17:00	1.20	-	
1.20	1.90	Dynamic Windowless Sampling	Klemm	Apex Drilling Services	1.90	101			25/03	17:00	1.90	-	
1.90	30.60	Rotary Core	Fraste	Apex Drilling Services	30.60	102			27/04	17:00	6.40	3.00	
									28/04	17:00	23.00	-	
									29/04	17:00	30.60	-	

Scale:	1:50
Checked By:	JC + DD
Approved By:	NB
Start Date:	11/03/2026
Finish Date:	29/04/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples, Tests and Rotary Coring							
						Depth (m)	Ref	Core Run	FI	TCR	SCR	RQD	Tests / Results

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306109.67	Northing:	206878.21
Level:	279.46mAOD	Depth:	30.60m
Logger:	DD	Type:	DS+RC
		Inclination:	90°

Status: FINAL

Borehole Number: **BH114**

Sheet 7 of 7

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	1.20	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	1.20	300	3.00	165	11/03	17:00	1.20	-	
1.20	1.90	Dynamic Windowless Sampling	Klemm	Apex Drilling Services	1.90	101			25/03	17:00	1.90	-	
1.90	30.60	Rotary Core	Fraste	Apex Drilling Services	30.60	102			27/04	17:00	6.40	3.00	
									28/04	17:00	23.00	-	
									29/04	17:00	30.60	-	

Scale: 1:50
Checked By: JC + DD
Approved By: NB
Start Date: 11/03/2026
Finish Date: 29/04/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples, Tests and Rotary Coring							
						Depth (m)	Ref	Core Run	FI	TCR	SCR	RQD	Tests / Results

61
62
63
64
65
66
67
68
69
70

Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, C= Core Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.

Sampling Runs

From (m)	To (m)	Diameter (mm)	Recovery %

Drilling Fluid

From (m)	To (m)	Return Min %	Colour	Type
27.60	29.10	0		Water
29.10	30.60	0		Water

Groundwater

Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Hammer Information

Serial No.	Energy Ratio %
AP3	60
AP5	64

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306095.67	Northing:	206823.66
Level:	278.68mAOD	Depth:	30.50m
Logger:	DD	Type:	DS+RC
		Inclination:	90°

Status: FINAL

Borehole Number: **BH115**

Sheet 1 of 6

Method, Plant and Crew					Diameter	
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)
0.00	1.20	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	1.20	300
1.20	5.60	Dynamic Windowless Sampling	Klemm	Apex Drilling Services	5.10	101
5.60	30.50	Rotary Core	Klemm	Apex Drilling Services	30.50	102

Casing	
Depth(m)	Diam (mm)
1.50	165

Drilling Progress by Time			
Date	Time	Depth (m)	Casing (m)	Water (m)
11/03	17:00	1.20	-	
26/03	17:00	5.60	1.50	
30/04	17:00	15.50	1.50	
01/05	17:00	26.00	-	
05/05	17:00	30.50	-	

Scale: 1:50
Checked By: JC + DD
Approved By: NB
Start Date: 11/03/2026
Finish Date: 05/05/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples, Tests and Rotary Coring: Depth (m)	Ref	Core Run	FI	TCR	SCR	RQD	Tests / Results
MADE GROUND: Brown slightly sandy slightly gravelly SILT with occasional rootlets. MGR		0.10	278.58			0.20 - 0.50 0.30	B1 ES1						PID 0.30m, 0.0ppm
MADE GROUND: Grey slightly silty slightly sandy fine to coarse GRAVEL of mudstone. Sand is fine to coarse. MGR *At 1.10m bgl boulder sandstone.*						0.50 0.50 - 1.20	ES2 B2						PID 0.50m, 0.0ppm
						1.00	ES3						PID 1.00m, 0.0ppm
Firm thinly bedded (0 to 10 degrees) greyish brown locally mottled orange slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is angular to subangular tabular fine to coarse ordered lithorelicts of weak mudstone with occasional siltstone. (WEATHERED SOUTH WALES LOWER COAL MEASURES) SWLCM		1.50	277.18			1.50 - 2.50	B3						SPT(C) 1.50m, N=28 (10,8/5,3,7,13)
						2.00 2.00	D1 ES4						PID 2.00m, 0.0ppm
						2.50 - 4.50	B4						SPT(C) 2.50m, N=17 (2,1/2,5,5,5)
						3.00	D2						
													SPT(C) 3.50m, N=10 (2,1/2,2,3,3)
						4.00 4.00	ES ES5						PID 4.00m, 0.0ppm
													SPT(C) 4.50m, N=15 (3,3/4,4,3,4)
Very weak thickly laminated (0 to 5 degrees) grey SILTSTONE with extremely closely spaced (0 to 5 degrees), planar to undulating, smooth and undulating bedding. Non intact. (SOUTH WALES LOWER COAL MEASURES) SWLCM		5.10	273.58										
Firm greyish brown mottled orange gravelly CLAY. Gravel is subangular to tabular fine to coarse siltstone and carbonaceous mudstone (possible cuttings). (SOUTH WALES LOWER COAL MEASURES) SWLCM		5.60 5.85	273.08 272.83										SPT(C) 5.60m, 50 (25 for 60mm/50 for 20mm)
Medium strong to strong thickly laminated to very thinly bedded (0 degrees) grey SILTSTONE with occasional thin laminations of fine sandstone. Discontinuities are 0 degrees along bedding, closely spaced, planar, smooth with brown discolouration penetrating to 5mm and reduction in strength penetrating walls (5 to 10mm). Weathering grade II to III. (SOUTH WALES LOWER COAL MEASURES) SWLCM		6.60	272.08			6.00 - 6.10	C1	5.60 6.60		100	55	25	
Very weak thin and thickly laminated (0 to 10 degrees) grey to greyish brown MUDSTONE with occasional beds of strong siltstone. Discontinuities: 1) 0 to 10 degrees along bedding, very closely spaced, planar to undulating, smooth and rough with localised reddish brown surface staining. 2) 30 to 45 degrees, closely spaced, planar, smooth. 3) 80 to 90 degrees, undulating to curved, rough. Predominately non intact. (SOUTH WALES LOWER COAL MEASURES) SWLCM *From 7.20m to 7.40m bgl extremely weak fissile mudstone.* *From 7.70m to 7.90m bgl medium strong to strong calcareous siltstone with abundant fossilised plant remains.* *From 8.10m to 8.60m bgl extremely weak fissile mudstone. Partially weathered to clay.*								6.60 7.90		100	19	0	
								7.90 9.50		81	9	6	
From 9.40m to 9.50m bgl medium strong to strong siltstone. *From 9.50m to 10.70m bgl dark grey weathered to clay. (Non intact)*						9.45 - 9.50	C2						

Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, C= Core Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.
5. 3 No. Permeability tests undertaken at 2.50m bgl with results ranging from 5.0x10-5 to 1.4x10-4
6. 3 No. variable head permeability tests undertaken at 9.50m bgl with results ranging between 1x10-4 and 1.04x10-4.

Sampling Runs

From (m)	To (m)	Diameter (mm)	Recovery %
1.50	2.50	101	100
2.50	3.50	101	75
3.50	4.50	101	80
4.50	5.60	101	100

Drilling Fluid

From (m)	To (m)	Return Min %	Colour	Type
6.60	7.90	0		Water
7.90	9.50	0		Water
9.50	11.00	0		Water

Groundwater

Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Hammer Information

Serial No.	Energy Ratio %
AP4	81

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306095.67	Northing:	206823.66
Level:	278.68mAOD	Depth:	30.50m
Logger:	DD	Type:	DS+RC
		Inclination:	90°

Status: FINAL

Borehole Number: **BH115**

Sheet 2 of 6

Method, Plant and Crew					Diameter	
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)
0.00	1.20	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	1.20	300
1.20	5.60	Dynamic Windowless Sampling	Klemm	Apex Drilling Services	5.10	101
5.60	30.50	Rotary Core	Klemm	Apex Drilling Services	30.50	102

Casing	
Depth(m)	Diam (mm)
1.50	165

Drilling Progress by Time				
Date	Time	Depth (m)	Casing (m)	Water (m)
11/03	17:00	1.20	-	
26/03	17:00	5.60	1.50	
30/04	17:00	15.50	1.50	
01/05	17:00	26.00	-	
05/05	17:00	30.50	-	

Scale: 1:50
Checked By: JC + DD
Approved By: NB
Start Date: 11/03/2026
Finish Date: 05/05/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples, Tests and Rotary Coring: Depth (m)	Ref	Core Run	FI	TCR	SCR	RQD	Tests / Results
Very weak thin and thickly laminated (0 to 10 degrees) grey to greyish brown MUDSTONE with occasional beds of strong siltstone. Discontinuities: 1) 0 to 10 degrees along bedding, very closely spaced, planar to undulating, smooth and rough with localised reddish brown surface staining. 2) 30 to 45 degrees, closely spaced, planar, smooth. 3) 80 to 90 degrees, undulating to curved, rough. Predominately non intact. (SOUTH WALES LOWER COAL MEASURES) SWLCM						10.30 - 10.40	C3	9.50 11.00		100	40	23	
		10.70	267.98										
Medium strong thickly laminated to very thinly bedded (0 to 10 degrees) grey slightly carbonaceous SILTSTONE. Discontinuities: 1) 0 to 10 degrees along bedding, closely spaced, planar, smooth with occasional orangish brown surface staining. 2) 70 degrees, closely to medium spaced, planar locally curved, smooth with reddish brown surface staining. 3) 80 to 90 degrees, planar to stepped, smooth with orange surface staining. (SOUTH WALES LOWER COAL MEASURES) SWLCM						11.00 - 11.70	C4	11.00 12.50		100	43	7	
From 12.50m to 12.80m bgl dark grey carbonaceous mudstone. Partially weathered to clay.						13.40 - 13.50	C5	12.50 14.00		100	60	33	
Medium strong to strong very thinly bedded (0 to 5 degrees) light grey slightly SILTSTONE with occasional thin laminations of fine sandstone. Discontinuities: 1) 0 to 5 degrees along bedding, closely spaced, planar to undulating, smooth with reduction in wall strength penetrating 2 to 3mm. 2) 80 to 90 degrees, planar locally curved, smooth with reddish brown surface staining. (SOUTH WALES LOWER COAL MEASURES) SWLCM		13.70	264.98					14.00 15.50		83	57	27	
No recovery.		15.25	263.43										
Medium strong to strong very thinly bedded (0 to 5 degrees) grey SILTSTONE. Discontinuities: 1) 0 to 5 degrees along bedding, closely spaced, planar, smooth. 2) 80 degrees, planar, smooth with reddish brown surface staining and traces of calcite infill. (SOUTH WALES LOWER COAL MEASURES) SWLCM		15.90	262.78			16.55 - 16.70	C6	15.50 17.00		73	50	13	
From 17.00m to 17.60m bgl non intact.													
Extremely weak thinly laminated (0 degrees) grey fissile MUDSTONE. Partially weathered to clay. Weathering grade IV. (SOUTH WALES LOWER COAL MEASURES) SWLCM		17.60	261.08					17.00 18.50		90	10	0	
Limited recovery. Core recovered as angular to subangular fine to coarse GRAVEL of moderately weak siltstone. Locally discernible closely to very closely spaced, 30 degrees discontinuity. (SOUTH WALES LOWER COAL MEASURES) SWLCM		17.95	260.73			18.15 - 18.25	C7						
Medium strong to strong very thinly bedded (0 to 5 degrees) grey to dark grey carbonaceous SILTSTONE. Discontinuities are 0 to 5 degrees along bedding, closely spaced, undulating to planar, smooth. (SOUTH WALES LOWER COAL MEASURES) SWLCM *From 18.80m to 19.80m bgl 80 to 90 degrees, undulating to stepped, rough with reddish brown and orange surface staining.*		18.80	259.88					18.50 20.00		73	57	17	

Observations / Remarks

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3. ES= Environmental Sample, C= Core Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.
5. 3 No. Permeability tests undertaken at 2.50m bgl with results ranging from 5.0x10-5 to 1.4x10-4
6. 3 No. variable head permeability tests undertaken at 9.50m bgl with results ranging between 1x10-4 and 1.04x10-4.

Sampling Runs			
From (m)	To (m)	Diameter (mm)	Recovery %

Drilling Fluid				
From (m)	To (m)	Return Min %	Colour	Type
11.00	12.50	0		Water
12.50	14.00	0		Water
14.00	15.50	0		Water

Groundwater					
Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Hammer Information	
Serial No.	Energy Ratio %
AP4	81

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306095.67	Northing:	206823.66
Level:	278.68mAOD	Depth:	30.50m
Logger:	DD	Type:	DS+RC
		Inclination:	90°

Status: FINAL

Borehole Number: **BH115**

Sheet 3 of 6

Method, Plant and Crew					Diameter	
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)
0.00	1.20	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	1.20	300
1.20	5.60	Dynamic Windowless Sampling	Klemm	Apex Drilling Services	5.10	101
5.60	30.50	Rotary Core	Klemm	Apex Drilling Services	30.50	102

Casing	
Depth(m)	Diam (mm)
1.50	165

Drilling Progress by Time				
Date	Time	Depth (m)	Casing (m)	Water (m)
11/03	17:00	1.20	-	
26/03	17:00	5.60	1.50	
30/04	17:00	15.50	1.50	
01/05	17:00	26.00	-	
05/05	17:00	30.50	-	

Scale: 1:50
Checked By: JC + DD
Approved By: NB
Start Date: 11/03/2026
Finish Date: 05/05/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples, Tests and Rotary Coring: Depth (m)	Ref	Core Run	FI	TCR	SCR	RQD	Tests / Results
Medium strong to strong very thinly bedded (0 to 5 degrees) grey to dark grey carbonaceous SILTSTONE. Discontinuities are 0 to 5 degrees along bedding, closely spaced, undulating to planar, smooth. (SOUTH WALES LOWER COAL MEASURES) SWLCM *From 20.00m to 20.40m no recovery.* *From 20.60m to 21.10m bgl 80 to 90 degrees, undulating to stepped, rough with reddish brown and orange surface staining.*						21.30 - 21.40	C8	20.00 21.50		73	40	13	
Medium strong dark grey vitreous COAL. (SOUTH WALES LOWER COAL MEASURES) SWLCM		21.90	256.78					21.50 23.00		100	60	53	
Extremely to very weak grey locally fissile MUDSTONE. Partially weathered to clay with occasional fossiliferous plant remains. (SEAT EARTH) (SOUTH WALES LOWER COAL MEASURES) SWLCM		22.40 22.60	256.28 256.08			22.55 - 22.75	C9						
Strong thickly laminated to very thinly bedded (0 to 5 degrees) grey SILTSTONE with occasional thin laminations of fine sandstone. Discontinuities are 0 to 5 degrees along bedding, medium spaced, planar, smooth. (SOUTH WALES LOWER COAL MEASURES) SWLCM *From 22.80m to 22.85m bgl extremely weak fissile mudstone.* *From 23.65m to 29.90m bgl moderately weak very thinly bedded grey carbonaceous mudstone with frequent fossilised plant remains.* *From 24.25m to 24.28m bgl extremely weak fissile mudstone.* *From 24.65m to 24.70m bgl extremely weak fissile mudstone.* *From 26.15m to 26.20m bgl extremely weak fissile mudstone.* *From 29.70m bgl bedding dipping at 30 degrees.*						25.60 - 25.90 28.55 - 28.85	C10 C11	23.00 24.50 24.50 26.00 26.00 27.50 27.50 29.00 29.00 30.50		100 100 100 100 100	80 100 93 100 90	63 100 93 90 90	

Observations / Remarks
1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd. 2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal. 3. ES= Environmental Sample, C= Core Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample 4. Location reinstated as instructed by WSP. 5. 3 No. Permeability tests undertaken at 2.50m bgl with results ranging from 5.0x10-5 to 1.4x10-4 6. 3 No. variable head permeability tests undertaken at 9.50m bgl with results ranging between 1x10-4 and 1.04x10-4.

Sampling Runs			
From (m)	To (m)	Diameter (mm)	Recovery %

Drilling Fluid				
From (m)	To (m)	Return Min %	Colour	Type
15.50	17.00	0		Water
17.00	18.50	0		Water
18.50	20.00	0		Water

Groundwater					
Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Hammer Information	
Serial No.	Energy Ratio %
AP4	81

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306095.67	Northing:	206823.66
Level:	278.68mAOD	Depth:	30.50m
Logger:	DD	Type:	DS+RC
		Inclination:	90°

Status: FINAL

Borehole Number: **BH115**

Method, Plant and Crew					Diameter	
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)
0.00	1.20	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	1.20	300
1.20	5.60	Dynamic Windowless Sampling	Klemm	Apex Drilling Services	5.10	101
5.60	30.50	Rotary Core	Klemm	Apex Drilling Services	30.50	102

Casing	
Depth(m)	Diam (mm)
1.50	165

Drilling Progress by Time				
Date	Time	Depth (m)	Casing (m)	Water (m)
11/03	17:00	1.20	-	
26/03	17:00	5.60	1.50	
30/04	17:00	15.50	1.50	
01/05	17:00	26.00	-	
05/05	17:00	30.50	-	

Scale: 1:50
Checked By: JC + DD
Approved By: NB
Start Date: 11/03/2026
Finish Date: 05/05/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples, Tests and Rotary Coring: Depth (m)	Ref	Core Run	FI	TCR	SCR	RQD	Tests / Results
Strong thickly laminated to very thinly bedded (0 to 5 degrees) grey SILTSTONE with occasional thin laminations of fine sandstone. Discontinuities are 0 to 5 degrees along bedding, medium spaced, planar, smooth. (SOUTH WALES LOWER COAL MEASURES) SWLCM *From 30.10m to 30.25m bgl extremely weak fissile mudstone.*		30.50	248.18										
EOH at 30.50m - Achieved target depth													

Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, C= Core Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.
5. 3 No. Permeability tests undertaken at 2.50m bgl with results ranging from 5.0x10-5 to 1.4x10-4
6. 3 No. variable head permeability tests undertaken at 9.50m bgl with results ranging between 1x10-4 and 1.04x10-4.

Sampling Runs			
From (m)	To (m)	Diameter (mm)	Recovery %

Drilling Fluid				
From (m)	To (m)	Return Min %	Colour	Type
20.00	21.50	0		Water
21.50	23.00	0		Water
23.00	24.50	0		Water

Groundwater					
Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Hammer Information	
Serial No.	Energy Ratio %
AP4	81

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306095.67	Northing:	206823.66
Level:	278.68mAOD	Depth:	30.50m
Logger:	DD	Type:	DS+RC
		Inclination:	90°

Status: FINAL

Borehole Number: **BH115**

Sheet 5 of 6

Scale: 1:50
Checked By: JC + DD
Approved By: NB
Start Date: 11/03/2026
Finish Date: 05/05/2026

Method, Plant and Crew					Diameter	
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)
0.00	1.20	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	1.20	300
1.20	5.60	Dynamic Windowless Sampling	Klemm	Apex Drilling Services	5.10	101
5.60	30.50	Rotary Core	Klemm	Apex Drilling Services	30.50	102

Casing	
Depth(m)	Diam (mm)
1.50	165

Drilling Progress by Time				
Date	Time	Depth (m)	Casing (m)	Water (m)
11/03	17:00	1.20	-	
26/03	17:00	5.60	1.50	
30/04	17:00	15.50	1.50	
01/05	17:00	26.00	-	
05/05	17:00	30.50	-	

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples, Tests and Rotary Coring: Depth (m)	Ref	Core Run	FI	TCR	SCR	RQD	Tests / Results

41
42
43
44
45
46
47
48
49
50

Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, C= Core Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.
5. 3 No. Permeability tests undertaken at 2.50m bgl with results ranging from 5.0x10-5 to 1.4x10-4
6. 3 No. variable head permeability tests undertaken at 9.50m bgl with results ranging between 1x10-4 and 1.04x10-4.

Sampling Runs

From (m)	To (m)	Diameter (mm)	Recovery %

Drilling Fluid

From (m)	To (m)	Return Min %	Colour	Type
24.50	26.00	0		Water
26.00	27.50	0		Water
27.50	29.00	0		Water

Groundwater

Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Hammer Information

Serial No.	Energy Ratio %
AP4	81

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306095.67	Northing:	206823.66
Level:	278.68mAOD	Depth:	30.50m
Logger:	DD	Type:	DS+RC
		Inclination:	90°

Status: FINAL

Borehole Number: **BH115**

Sheet 6 of 6

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	1.20	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	1.20	300	1.50	165	11/03	17:00	1.20	-	
1.20	5.60	Dynamic Windowless Sampling	Klemm	Apex Drilling Services	5.10	101			26/03	17:00	5.60	1.50	
5.60	30.50	Rotary Core	Klemm	Apex Drilling Services	30.50	102			30/04	17:00	15.50	1.50	
									01/05	17:00	26.00	-	
									05/05	17:00	30.50	-	

Scale: 1:50
Checked By: JC + DD
Approved By: NB
Start Date: 11/03/2026
Finish Date: 05/05/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples, Tests and Rotary Coring							
						Depth (m)	Ref	Core Run	FI	TCR	SCR	RQD	Tests / Results

51
52
53
54
55
56
57
58
59
60

Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, C= Core Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.
5. 3 No. Permeability tests undertaken at 2.50m bgl with results ranging from 5.0x10-5 to 1.4x10-4
6. 3 No. variable head permeability tests undertaken at 9.50m bgl with results ranging between 1x10-4 and 1.04x10-4.

Sampling Runs

From (m)	To (m)	Diameter (mm)	Recovery %

Drilling Fluid

From (m)	To (m)	Return Min %	Colour	Type
29.00	30.50	0		Water

Groundwater

Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Hammer Information

Serial No.	Energy Ratio %
AP4	81

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306107.09	Northing:	206764.71
Level:	278.76mAOD	Depth:	30.30m
Logger:	DD	Type:	RC
		Inclination:	90°

Status: FINAL

Borehole Number: **BH116**

Sheet 1 of 8

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	1.20	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	1.20	300	3.60	146	11/03	17:00	1.20	-	
1.20	30.30	Rotary Core	Klemm	Apex Drilling Services	30.30	102			05/05	17:00	6.50	3.60	
									06/05	00:00	21.30	-	
									07/05	00:00	30.30	-	

Scale: 1:50
Checked By: JC + DD
Approved By: NB
Start Date: 11/03/2026
Finish Date: 11/05/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples, Tests and Rotary Coring: Depth (m)	Ref	Core Run	FI	TCR	SCR	RQD	Tests / Results
MADE GROUND: Brown slightly gravelly slightly sandy SILT with occasional rootlets. (TOPSOIL) MGR		0.10	278.66			0.20 - 0.50	B1						
						0.30	ES1						PID 0.30m, 0.0ppm
MADE GROUND: Dark greyish black sandy silty clayey angular fine to coarse GRAVEL of mudstone with medium cobble content. Sand is fine to coarse. Cobbles are angular mudstone. MGR						0.50 - 1.20	B2						
						0.60	ES2						PID 0.60m, 0.0ppm
At 1.00m bgl boulder sandstone.						1.00	ES3						PID 1.00m, 0.0ppm
MADE GROUND: Medium dense brownish grey very silty sandy GRAVEL. Sands are fine to coarse. Gravels are fine to coarse subangular mudstone and siltstone. Strata has rare coal gravels and fragments throughout. MGR		1.20	277.56			1.20 - 1.95	B3						SPT(C) 1.20m, N=26 (2,3/5,6,6,9)
						1.50	ES4	1.20 2.10		0	0	0	PID 1.50m, 0.0ppm
Limited recovery. Core recovered as medium dense grey angular to subangular coarse GRAVEL of siltstone and sandstone. (POSSIBLE SOUTH WALES LOWER COAL MEASURES) SWLCM		1.95	276.81			1.95 - 2.30	B4						
						1.95 - 2.30	D1						SPT(C) 2.10m, N=28 (2,4/5,5,8,10)
Weathered MUDSTONE to stiff brown thickly laminated (20 degrees) gravelly clay. Gravel is angular to subangular tabular fine to coarse ordered lithorelicts of weak mudstone with localised reddish brown and orange surface staining. Weathering grade V. (SOUTH WALES LOWER COAL MEASURES) SWLCM		2.60	276.16					2.10 3.10		60	0	0	
		2.90	275.86										SPT(C) 3.10m, 50 (7,9/50 for 200mm)
Moderately weak thinly laminated to very thinly bedded (0 to 10 degrees) grey to dark grey carbonaceous MUDSTONE. Discontinuities are 0 to 10 degrees, closely spaced, undulating to planar, smooth. Weathering grade II. (SOUTH WALES LOWER COAL MEASURES) SWLCM						3.60 - 3.70	C1	3.10 4.10		100	40	0	
From 3.10m to 3.50m bgl partially non intact. Discontinuities are 80 to 90 degrees. *From 3.70m to 4.50m bgl partially non intact. Discontinuities are 80 to 90 degrees.* *From 3.90m to 4.20m bgl fossiliferous with frequent plant remains.* *From 4.30m to 4.50m bgl frequent subrounded (20 to 60mm) nodules of siderite.*													SPT(C) 4.10m, 50 (25 for 85mm/50 for 100mm)
Strong very thinly bedded (0 to 5 degrees) light grey fine grained SANDSTONE. Discontinuities: 1) 0 to 5 degrees, closely spaced, undulating to planar, smooth and rough with light orangish brown surface discolouration. 2) 80 to 90 degrees, irregular locally stepped, slightly rough with orange surface staining and light reddish brown discolouration penetrating (5 to 10mm) localised yellow clay infill to 2mm. Weathering grade II. (SOUTH WALES LOWER COAL MEASURES) SWLCM		4.50	274.26					4.10 5.10		100	30	20	
From 4.95m to 5.35m bgl 1 to 2no 70 degrees, planar, slightly rough discontinuity.						5.50 - 5.70	C2	5.10 6.50		100	86	43	SPT(C) 5.10m, 50 (25 for 55mm/50 for 35mm)
Medium strong to strong thin and thickly laminated (0 to 5 degrees) light grey SILTSTONE with closely to medium spaced thick laminations of very weak fissile mudstone. Discontinuities are 0 to 5 degrees, closely spaced, planar, smooth. Weathering grade II. (SOUTH WALES LOWER COAL MEASURES) SWLCM		6.80	271.96			6.80 - 6.90	C3	6.50 7.80		100	58	27	
From 7.10m to 7.60m bgl discontinuities are 70 and 90 degrees, planar, slightly rough with reddish brown and orange surface staining.								7.80 9.30		100	80	43	
From 9.30m to 9.60m bgl 1no 90 degrees, slightly rough discontinuity with speckled calcite.													
Weak to moderately weak grey SILTSTONE with closely spaced very thin beds of extremely to very weak fissile mudstone. Predominately non intact with locally discernible 0 to 10 and 70 to 90 degrees, very closely spaced discontinuity. Weathering grade II. (SOUTH WALES LOWER COAL MEASURES) SWLCM		9.60	269.16			9.40 - 9.60	C4						

Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, C= Core Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.
5. BH116a strata descriptions and samples from 1.20-2.10m bgl are included within this log. An additional borehole to capture the ground conditions from 1.20m to 2.10m bgl was undertaken due to the drilling contractor initially casing from 1.20 to 2.10m without dynamic sampling as required. The additional hole was located at NGR 306113.46, 206764.71.

Drilling Fluid

From (m)	To (m)	Return Min %	Colour	Type
1.20	2.10	50	Grey	Water
2.10	3.10	50	Grey	Water
3.10	4.10	60	Grey	Water

Groundwater

Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Hammer Information

Serial No.	Energy Ratio %
AP5	64

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306107.09	Northing:	206764.71
Level:	278.76mAOD	Depth:	30.30m
Logger:	DD	Type:	RC
		Inclination:	90°

Status: FINAL

Borehole Number: **BH116**

Sheet 2 of 8

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	1.20	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	1.20	300	3.60	146	11/03	17:00	1.20	-	
1.20	30.30	Rotary Core	Klemm	Apex Drilling Services	30.30	102			05/05	17:00	6.50	3.60	
									06/05	00:00	21.30	-	
									07/05	00:00	30.30	-	

Scale: 1:50
Checked By: JC + DD
Approved By: NB
Start Date: 11/03/2026
Finish Date: 11/05/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples, Tests and Rotary Coring: Depth (m)	Ref	Core Run	FI	TCR	SCR	RQD	Tests / Results
Weak to moderately weak grey SILTSTONE with closely spaced very thin beds of extremely to very weak fissile mudstone. Predominately non intact with locally discernible 0 to 10 and 70 to 90 degrees, very closely spaced discontinuity. Weathering grade II. (SOUTH WALES LOWER COAL MEASURES) SWLCM								9.30 10.80		100	20	10	
From 11.40m to 11.70m bgl moderately weak to moderately strong.						11.40 - 11.55	C5	10.80 12.30		100	33	27	
Medium strong to strong thinly bedded (0 to 5 degrees) grey to dark grey calcareous SILTSTONE with occasional brachiopod shells locally concentrated along bedding. Discontinuities: 1) 0 to 5 degrees, medium spaced, planar, smooth. 2) 70 to 90 degrees (1 to 2no), planar, slightly rough with reddish brown surface staining. (Unweathered, Marine facies) (SOUTH WALES LOWER COAL MEASURES) SWLCM		12.05	266.71			12.70 - 12.90	C6	12.30 13.80		100	60	37	
Moderately weak to medium strong thickly laminated to very thinly bedded (0 to 10 degrees) grey SILTSTONE with closely spaced, very thin beds of extremely to very weak fissile mudstone. Discontinuities: 1) 0 to 10 degrees, very closely to closely spaced, undulating to planar, smooth with localised orange surface staining. 2) 70 degrees, medium spaced, planar locally stepped, slightly rough. (SOUTH WALES LOWER COAL MEASURES) SWLCM *From 14.15m to 14.35m bgl discontinuities are 90 degrees, planar locally stepped, smooth and rough.* *From 14.90m to 15.10m bgl discontinuities are 90 degrees, planar locally stepped, smooth and rough.*		13.80	264.96					13.80 15.30		100	73	33	
From 15.50m to 16.20m bgl discontinuities are 90 degrees, planar locally stepped, smooth and rough.						16.40 - 16.55	C7	15.30 16.80		100	33	10	
From 18.30m to 18.80m bgl limited recovery.								16.80 18.30		100	57	7	
From 19.60m to 20.00m bgl 2no 70 degrees, planar, smooth discontinuity with 10mm of stiff clay infill.						18.90 - 19.10	C8	18.30 19.80		87	53	30	

Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, C= Core Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.
5. BH116a strata descriptions and samples from 1.20-2.10m bgl are included within this log. An additional borehole to capture the ground conditions from 1.20m to 2.10m bgl was undertaken due to the drilling contractor initially casing from 1.20 to 2.10m without dynamic sampling as required. The additional hole was located at NGR 306113.46, 206764.71.

Drilling Fluid

From (m)	To (m)	Return Min %	Colour	Type
4.10	5.10	50	Grey	Water
5.10	6.50	80	Grey	Water
6.50	7.80	90	Grey	Water

Groundwater

Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Hammer Information

Serial No.	Energy Ratio %
AP5	64

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306107.09	Northing:	206764.71
Level:	278.76mAOD	Depth:	30.30m
Logger:	DD	Type:	RC
		Inclination:	90°

Status: FINAL

Borehole Number: **BH116**

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	1.20	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	1.20	300	3.60	146	11/03	17:00	1.20	-	
1.20	30.30	Rotary Core	Klemm	Apex Drilling Services	30.30	102			05/05	17:00	6.50	3.60	
									06/05	00:00	21.30	-	
									07/05	00:00	30.30	-	

Scale: 1:50
Checked By: JC + DD
Approved By: NB
Start Date: 11/03/2026
Finish Date: 11/05/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples, Tests and Rotary Coring: Depth (m)	Ref	Core Run	FI	TCR	SCR	RQD	Tests / Results
Moderately weak to medium strong thickly laminated to very thinly bedded (0 to 10 degrees) grey SILTSTONE with closely spaced, very thin beds of extremely to very weak fissile mudstone. Discontinuities: 1) 0 to 10 degrees, very closely to closely spaced, undulating to planar, smooth with localised orange surface staining. 2) 70 degrees, medium spaced, planar locally stepped, slightly rough. (SOUTH WALES LOWER COAL MEASURES) SWLCM *From 20.00m to 20.60m bgl discontinuities are 90 degrees, planar locally stepped, smooth and rough.*								19.80 21.30		100	60	7	
						22.20 - 22.30	C9	21.30 22.80		100	30	7	
								22.80 24.30		27	13	0	
No recovery. SWLCM		24.30	254.46					24.30 24.80		0	0	0	
Moderately weak to medium strong dark grey slightly carbonaceous SILTSTONE with very thinly to thinly interbedded (0 to 5 degrees) of extremely to very weak fissile mudstone. Predominately non intact with locally discernible 90 degrees, stepped and rough discontinuity. Weathering grade IV. (SOUTH WALES LOWER COAL MEASURES) SWLCM		24.80	253.96					24.80 25.30		100	20	20	
								25.30 25.80		100	30	20	
						25.70 - 25.80	C10						
						26.30 - 26.45	C11	25.80 27.30		100	57	47	
Strong thickly laminated to very thinly bedded (0 to 5 degrees) grey SILTSTONE with frequent thin laminations of fine sandstone. Discontinuities are 0 to 5 degrees along bedding, medium spaced, planar to undulating, smooth. Weathering grade II. (SOUTH WALES LOWER COAL MEASURES) SWLCM *From 27.80m to 27.90m bgl moderately weak mudstone.* *From 28.50m to 28.60m bgl moderately weak mudstone.*		26.85	251.91					27.30 28.80		100	93	70	
								28.80 30.30		100	100	100	
						29.70 - 30.00	C12						

Observations / Remarks

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2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, C= Core Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.
5. BH116a strata descriptions and samples from 1.20-2.10m bgl are included within this log. An additional borehole to capture the ground conditions from 1.20m to 2.10m bgl was undertaken due to the drilling contractor initially casing from 1.20 to 2.10m without dynamic sampling as required. The additional hole was located at NGR 306113.46, 206764.71.

Drilling Fluid

From (m)	To (m)	Return Min %	Colour	Type
7.80	9.30	90	Grey	Water
9.30	10.80	90	Grey	Water
10.80	12.30	90	Grey	Water

Groundwater

Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Hammer Information

Serial No.	Energy Ratio %
AP5	64

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306107.09	Northing:	206764.71
Level:	278.76mAOD	Depth:	30.30m
Logger:	DD	Type:	RC
		Inclination:	90°

Status: FINAL

Borehole Number: **BH116**

Scale: 1:50
Checked By: JC + DD
Approved By: NB
Start Date: 11/03/2026
Finish Date: 11/05/2026

Method, Plant and Crew

From (m)	To (m)	Type	Plant Used	Crew
0.00	1.20	Inspection Pit	Hand Excavation Tools	Apex Drilling Services
1.20	30.30	Rotary Core	Klemm	Apex Drilling Services

Diameter

Depth (m)	Diam (mm)
1.20	300
30.30	102

Casing

Depth(m)	Diam (mm)
3.60	146

Drilling Progress by Time

Date	Time	Depth (m)	Casing (m)	Water (m)
11/03	17:00	1.20	-	
05/05	17:00	6.50	3.60	
06/05	00:00	21.30	-	
07/05	00:00	30.30	-	

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples, Tests and Rotary Coring: Depth (m)	Ref	Core Run	FI	TCR	SCR	RQD	Tests / Results
Strong thickly laminated to very thinly bedded (0 to 5 degrees) grey SILTSTONE with frequent thin laminations of fine sandstone. Discontinuities are 0 to 5 degrees along bedding, medium spaced, planar to undulating, smooth. Weathering grade II. (SOUTH WALES LOWER COAL MEASURES) SWLCM		30.30	248.46										
EOH at 30.30m - Achieved target depth													

31 32 33 34 35 36 37 38 39 40

Observations / Remarks

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4. Location reinstated as instructed by WSP.
5. BH116a strata descriptions and samples from 1.20-2.10m bgl are included within this log. An additional borehole to capture the ground conditions from 1.20m to 2.10m bgl was undertaken due to the drilling contractor initially casing from 1.20 to 2.10m without dynamic sampling as required. The additional hole was located at NGR 306113.46, 206764.71.

Drilling Fluid

From (m)	To (m)	Return Min %	Colour	Type
12.30	13.80	90	Grey	Water
13.80	15.30	90	Grey	Water
15.30	16.80	90	Grey	Water

Groundwater

Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Hammer Information

Serial No.	Energy Ratio %
AP5	64

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306107.09	Northing:	206764.71
Level:	278.76mAOD	Depth:	30.30m
Logger:	DD	Type:	RC
		Inclination:	90°

Status: FINAL

Borehole Number: **BH116**

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	1.20	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	1.20	300	3.60	146	11/03	17:00	1.20	-	
1.20	30.30	Rotary Core	Klemm	Apex Drilling Services	30.30	102			05/05	17:00	6.50	3.60	
									06/05	00:00	21.30	-	
									07/05	00:00	30.30	-	

Scale:	1:50
Checked By:	JC + DD
Approved By:	NB
Start Date:	11/03/2026
Finish Date:	11/05/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples, Tests and Rotary Coring							
						Depth (m)	Ref	Core Run	FI	TCR	SCR	RQD	Tests / Results

41
42
43
44
45
46
47
48
49
50

Observations / Remarks

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3. ES= Environmental Sample, C= Core Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.
5. BH116a strata descriptions and samples from 1.20-2.10m bgl are included within this log. An additional borehole to capture the ground conditions from 1.20m to 2.10m bgl was undertaken due to the drilling contractor initially casing from 1.20 to 2.10m without dynamic sampling as required. The additional hole was located at NGR 306113.46, 206764.71.

Drilling Fluid

From (m)	To (m)	Return Min %	Colour	Type
16.80	18.30	90	Grey	Water
18.30	19.80	90	Grey	Water
19.80	21.30	90	Grey	Water

Groundwater

Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Hammer Information

Serial No.	Energy Ratio %
AP5	64

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306107.09	Northing:	206764.71
Level:	278.76mAOD	Depth:	30.30m
Logger:	DD	Type:	RC
		Inclination:	90°

Status: FINAL

Borehole Number: **BH116**

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	1.20	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	1.20	300	3.60	146	11/03	17:00	1.20	-	
1.20	30.30	Rotary Core	Klemm	Apex Drilling Services	30.30	102			05/05	17:00	6.50	3.60	
									06/05	00:00	21.30	-	
									07/05	00:00	30.30	-	

Scale: 1:50
Checked By: JC + DD
Approved By: NB
Start Date: 11/03/2026
Finish Date: 11/05/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples, Tests and Rotary Coring							
						Depth (m)	Ref	Core Run	FI	TCR	SCR	RQD	Tests / Results

51
52
53
54
55
56
57
58
59
60

Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, C= Core Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.
5. BH116a strata descriptions and samples from 1.20-2.10m bgl are included within this log. An additional borehole to capture the ground conditions from 1.20m to 2.10m bgl was undertaken due to the drilling contractor initially casing from 1.20 to 2.10m without dynamic sampling as required. The additional hole was located at NGR 306113.46, 206764.71.

Drilling Fluid

From (m)	To (m)	Return Min %	Colour	Type
21.30	22.80	90	Grey	Water
22.80	24.30	60	Grey	Water
24.30	24.80	50	Grey	Water

Groundwater

Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Hammer Information

Serial No.	Energy Ratio %
AP5	64

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306107.09	Northing:	206764.71
Level:	278.76mAOD	Depth:	30.30m
Logger:	DD	Type:	RC
		Inclination:	90°

Status: FINAL

Borehole Number: **BH116**

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	1.20	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	1.20	300	3.60	146	11/03	17:00	1.20	-	
1.20	30.30	Rotary Core	Klemm	Apex Drilling Services	30.30	102			05/05	17:00	6.50	3.60	
									06/05	00:00	21.30	-	
									07/05	00:00	30.30	-	

Scale: 1:50
Checked By: JC + DD
Approved By: NB
Start Date: 11/03/2026
Finish Date: 11/05/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples, Tests and Rotary Coring							
						Depth (m)	Ref	Core Run	FI	TCR	SCR	RQD	Tests / Results

61
62
63
64
65
66
67
68
69
70

Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, C= Core Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.
5. BH116a strata descriptions and samples from 1.20-2.10m bgl are included within this log. An additional borehole to capture the ground conditions from 1.20m to 2.10m bgl was undertaken due to the drilling contractor initially casing from 1.20 to 2.10m without dynamic sampling as required. The additional hole was located at NGR 306113.46, 206764.71.

Drilling Fluid

From (m)	To (m)	Return Min %	Colour	Type
24.80	25.30	60	Grey	Water
25.30	25.80	60	Grey	Water
25.80	27.30	60	Grey	Water

Groundwater

Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Hammer Information

Serial No.	Energy Ratio %
AP5	64

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306107.09	Northing:	206764.71
Level:	278.76mAOD	Depth:	30.30m
Logger:	DD	Type:	RC
		Inclination:	90°

Status: FINAL

Borehole Number: **BH116**

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	1.20	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	1.20	300	3.60	146	11/03	17:00	1.20	-	
1.20	30.30	Rotary Core	Klemm	Apex Drilling Services	30.30	102			05/05	17:00	6.50	3.60	
									06/05	00:00	21.30	-	
									07/05	00:00	30.30	-	

Scale: 1:50
Checked By: JC + DD
Approved By: NB
Start Date: 11/03/2026
Finish Date: 11/05/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples, Tests and Rotary Coring							
						Depth (m)	Ref	Core Run	FI	TCR	SCR	RQD	Tests / Results

71
72
73
74
75
76
77
78
79
80

Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, C= Core Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.
5. BH116a strata descriptions and samples from 1.20-2.10m bgl are included within this log. An additional borehole to capture the ground conditions from 1.20m to 2.10m bgl was undertaken due to the drilling contractor initially casing from 1.20 to 2.10m without dynamic sampling as required. The additional hole was located at NGR 306113.46, 206764.71.

Drilling Fluid

From (m)	To (m)	Return Min %	Colour	Type
27.30	28.80	60	Grey	Water
28.80	30.30	40	Grey	Water

Hammer Information

Serial No.	Energy Ratio %
AP5	64

Groundwater

Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306256.23	Northing:	207007.93
Level:	280.88mAOD	Depth:	0.80m
Logger:	Steffan Parry	Type:	CP
		Inclination:	90°

Status: FINAL

Borehole Number: **BH201**

Sheet 1 of 1

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	0.80	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	0.80	300			09/03	17:00	0.80	-	

Scale:	1:50
Checked By:	JC + DD
Approved By:	NB
Start Date:	09/03/2026
Finish Date:	09/03/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples and Testing: Depth (m)	Ref	Tests / Results
MADE GROUND: Dark grey clayey silty sandy GRAVEL. Gravel is fine to coarse angular of siltstone. Sand is fine to coarse. MGR		0.20	280.68			0.00 - 0.40	B1	
MADE GROUND: Dark Grey silty sandy GRAVEL with high cobble content. Gravel is fine to coarse angular of siltstone. Sand is fine. Cobble is angular to subangular of siltstone. ENGINEERED FILL. MGR						0.30 0.40 - 0.80	ES1 B2	PID 0.30m, 0.0ppm
						0.70	ES3	PID 0.70m, 0.0ppm
EOH at 0.80m - Terminated due to refusal		0.80	280.08					

Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.

Chiselling			Water Added		Hammer Information	
From (m)	To (m)	Time (mins)	From (m)	To (m)	Serial No.	Energy Ratio %

Groundwater					
Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306257.00	Northing:	207008.00
Level:	280.97mAOD	Depth:	1.20m
Logger:	SP	Type:	CP
		Inclination:	90°

Status: FINAL

Borehole Number: **BH201A**

Sheet 1 of 1

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	0.20	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	0.20	300			10/03	17:00	1.20	-	
0.20	1.20	Cable Percussion	Dando	Apex Drilling Services	1.20	200							

Scale:	1:50
Checked By:	JC + DD
Approved By:	NB
Start Date:	09/03/2026
Finish Date:	09/03/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples and Testing: Depth (m)	Ref	Tests / Results
MADE GROUND: Dark grey clayey silty sandy GRAVEL. Gravel is fine to coarse angular of siltstone. Sand is fine to coarse. MGR		0.20	280.77			0.30 - 0.80	B1	
						0.40	ES3	PID 0.40m, 0.0ppm
MADE GROUND: Dense dark grey slightly sandy slightly gravelly CLAY. Gravel is fine to coarse angular of siltstone. Sand is fine to coarse. MGR						0.80 - 1.20	B2	
Becoming dark grey mottled orangish brown sandy gravelly SILT. Gravel is fine to coarse angular to subangular of siltstone. Sand is fine.						1.00	ES4	SPT(C) 1.00m, 50 (25 for 0mm/50 for 0mm) PID 1.00m, 0.0ppm
EOH at 1.20m - Terminated due to refusal		1.20	279.77					

1 2 3 4 5 6 7 8 9 10

Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.

Chiselling

From (m)	To (m)	Time (mins)
0.20	0.70	60
0.70	0.80	60
0.80	1.00	60

Water Added

From (m)	To (m)

Hammer Information

Serial No.	Energy Ratio %
AP1	63

Groundwater

Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306231.46	Northing:	206940.00
Level:	281.07mAOD	Depth:	1.70m
Logger:	SP	Type:	CP
		Inclination:	90°

Status: FINAL

Borehole Number: **BH202**

Sheet 1 of 2

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	0.27	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	0.27	300	0.73	200	10/03	17:00	1.00	-	
0.27	1.70	Cable Percussion	Dando	Apex Drilling Services	1.70	200			11/03	17:00	1.70	-	

Scale:	1:50
Checked By:	JC + DD
Approved By:	NB
Start Date:	10/03/2026
Finish Date:	11/03/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples and Testing: Depth (m)	Ref	Tests / Results
MADE GROUND: Dark grey clayey silty sandy GRAVEL with low cobble content. GRAVEL is fine to coarse angular of mudstone. Sand is fine to coarse. MGR		0.27	280.80			0.00 - 0.27	B1	
						0.20	ES1	PID 0.20m, 0.0ppm
MADE GROUND: Dense dark grey silty sandy gravelly CLAY. Gravel is fine to medium angular of mudstone. Sand is fine to coarse. MGR						0.50 - 0.70	B2	
						0.51	B2	
						0.80	ES2	PID 0.80m, 0.0ppm
						1.20 - 1.40	B3	SPT(C) 1.20m, 50 (10,12/50 for 100mm)
						1.40 - 1.70	B4	
EOH at 1.70m - Terminated due to refusal		1.70	279.37					

1 2 3 4 5 6 7 8 9 10

Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2. Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.

Chiselling

From (m)	To (m)	Time (mins)
0.27	1.00	40
1.00	1.20	20
1.20	1.60	40

Water Added

From (m)	To (m)

Hammer Information

Serial No.	Energy Ratio %
AP2	71

Groundwater

Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306231.46	Northing:	206940.00
Level:	281.07mAOD	Depth:	1.70m
Logger:	SP	Type:	CP
		Inclination:	90°

Status: FINAL

Borehole Number: **BH202**

Sheet 2 of 2

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	0.27	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	0.27	300	0.73	200	10/03	17:00	1.00	-	
0.27	1.70	Cable Percussion	Dando	Apex Drilling Services	1.70	200			11/03	17:00	1.70	-	

Scale: 1:50
Checked By: JC + DD
Approved By: NB
Start Date: 10/03/2026
Finish Date: 11/03/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples and Testing: Depth (m)	Ref	Tests / Results

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Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.

Chiselling

From (m)	To (m)	Time (mins)
1.60	1.70	50

Water Added

From (m)	To (m)

Hammer Information

Serial No.	Energy Ratio %
AP2	71

Groundwater

Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306217.56	Northing:	206865.95
Level:	280.75mAOD	Depth:	1.30m
Logger:	SP	Type:	CP
		Inclination:	90°

Status: FINAL

Borehole Number: **BH203**

Sheet 1 of 1

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	1.20	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	1.20	300	1.20	200	10/03	17:00	1.20	1.20	
1.20	1.30	Cable Percussion	Dando	Apex Drilling Services	1.30	200			11/03	17:00	1.30	1.20	1.1

Scale: 1:50
Checked By: JC + DD
Approved By: NB
Start Date: 10/03/2026
Finish Date: 11/03/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples and Testing: Depth (m)	Ref	Tests / Results
MADE GROUND: Dense dark grey mottled orangish brown and brown very silty very sandy GRAVEL. GRAVEL is fine to coarse angular of mudstone, siltstone, coal. Sand is fine to coarse. MGR						0.00 - 0.50	B1	
						0.20	ES4	
MADE GROUND: Grey silty sandy GRAVEL with high cobble content. GRAVEL is fine to coarse angular of siltstone. Cobbles are angular of siltstone. Sand is fine to coarse. MGR		0.50	280.25			0.50 - 1.20	B2	
						0.70	ES5	
Becoming dark grey slightly sandy gravelly SILT with medium boulder content. Gravel is fine to coarse angular of siltstone. Cobbles are angular of siltstone. Sand is fine to coarse.						1.00 - 1.30	D3	
						1.20	ES6	SPT(C) 1.20m, 50 (25 for 0mm/50 for 0mm) SPT(C) 1.30m, 50 (25 for 0mm/50 for 0mm)
EOH at 1.30m - Terminated due to refusal		1.30	279.45					

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Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.

Chiselling

From (m)	To (m)	Time (mins)
1.20	1.30	30
1.30	1.30	60

Water Added

From (m)	To (m)

Hammer Information

Serial No.	Energy Ratio %
AP1	63

Groundwater

Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306143.76	Northing:	206851.85
Level:	279.80mAOD	Depth:	5.50m
Logger:	SP	Type:	CP
		Inclination:	90°

Status: FINAL

Borehole Number: **BH204**

Sheet 1 of 2

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	1.20	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	1.20	300	4.70	200	11/03	17:00	1.20	-	
1.20	5.50	Cable Percussion	Dando	Apex Drilling Services	5.50	200			12/03	17:00	4.70	4.50	
									13/03	17:00	5.50	4.70	

Scale:	1:50
Checked By:	JC + DD
Approved By:	NB
Start Date:	11/03/2026
Finish Date:	13/03/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples and Testing: Depth (m)	Ref	Tests / Results
MADE GROUND: Dark grey slightly sandy clayey silty GRAVEL with low cobble content. Grave is fine to coarse angular to subangular of siltstone and slag. Sand is fine to coarse with common rootlets. (TOPSOIL) MGR		0.15	279.65			0.30	ES1	PID 0.30m, 0.0ppm
						0.30 - 0.60	B1	
						0.60 - 0.90	B2	
MADE GROUND: Dense dark grey silty sandy gravelly COBBLES with some boulders. Cobbles are angular to subangular of slag, siltstone and mudstone. Gravel is fine to coarse angular of slag, siltstone and mudstone. Sand is fine to coarse. MGR						0.80	ES2	PID 0.80m, 0.0ppm
						0.90 - 1.20	B3	
						1.20	ES3	SPT(C) 1.20m, 50 (6,9/50 for 80mm) PID 1.20m, 0.0ppm
MADE GROUND: Medium dense becoming dense black silty sandy GRAVEL. Gravel is fine to medium angular of mudstone. Sand is fine to coarse. MGR		2.00	277.80			2.00 - 2.30	B4	SPT(C) 2.00m, N=28 (4,3/5,7,7,9)
						2.20	ES4	PID 2.20m, 0.0ppm
						3.00 - 3.30	B5	SPT(C) 3.00m, 50 (20,5/50 for 130mm)
MADE GROUND: Dense dark grey sandy gravelly SILT/ CLAY. Gravel is fine angular of mudstone. Sand is fine to coarse. MGR		3.30	276.50			3.20	ES5	PID 3.20m, 0.0ppm
						4.00 - 4.30	B6	SPT(C) 4.00m, 50 (25 for 60mm/50 for 70mm)
						4.20	ES6	PID 4.20m, 0.0ppm
						5.00 - 5.30	B7	SPT(C) 5.00m, 50 (25 for 70mm/50 for 150mm)
						5.20	ES7	PID 5.20m, 0.0ppm
EOH at 5.50m - Terminated due to refusal		5.50	274.30					

Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.

Chiselling

From (m)	To (m)	Time (mins)
4.10	4.40	60
4.40	4.70	60
4.70	5.00	60

Water Added

From (m)	To (m)

Hammer Information

Serial No.	Energy Ratio %
AP2	71

Groundwater

Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306143.76	Northing:	206851.85
Level:	279.80mAOD	Depth:	5.50m
Logger:	SP	Type:	CP
		Inclination:	90°

Status: FINAL

Borehole Number: **BH204**

Sheet 2 of 2

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	1.20	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	1.20	300	4.70	200	11/03	17:00	1.20	-	
1.20	5.50	Cable Percussion	Dando	Apex Drilling Services	5.50	200			12/03	17:00	4.70	4.50	
									13/03	17:00	5.50	4.70	

Scale:	1:50
Checked By:	JC + DD
Approved By:	NB
Start Date:	11/03/2026
Finish Date:	13/03/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples and Testing: Depth (m)	Ref	Tests / Results

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Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.

Chiselling

From (m)	To (m)	Time (mins)
5.00	5.20	30
5.20	5.40	30
5.40	5.50	30

Water Added

From (m)	To (m)

Hammer Information

Serial No.	Energy Ratio %
AP2	71

Groundwater

Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306192.23	Northing:	206806.21
Level:	279.72mAOD	Depth:	0.50m
Logger:	SP	Type:	CP
		Inclination:	90°

Status: FINAL

Borehole Number: **BH205**

Sheet 1 of 1

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	0.50	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	0.50	300			11/03	17:00	0.50	-	

Scale:	1:50
Checked By:	JC + DD
Approved By:	NB
Start Date:	11/03/2026
Finish Date:	11/03/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples and Testing: Depth (m)	Ref	Tests / Results
MADE GROUND: Dark grey slightly sandy gravelly CLAY with low cobble content. Gravel is fine to coarse angular of siltstone and ironstone. cobbles are angular of siltstone. Sand is fine to coarse with common rootlets. MGR		0.15	279.57			0.30	ES1	PID 0.30m, 0.0ppm
MADE GROUND: Grey mottled brown gravelly COBBLES and BOULDERS. Gravel is fine to coarse angular of siltstone, ironstone and slag with many subangular cobbles and boulders of the same. MGR		0.50	279.22					
EOH at 0.50m - Terminated due to refusal								

Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.

Chiselling			Water Added		Hammer Information	
From (m)	To (m)	Time (mins)	From (m)	To (m)	Serial No.	Energy Ratio %

Groundwater					
Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306191.00	Northing:	206807.00
Level:	279.80mAOD	Depth:	3.00m
Logger:	SP	Type:	CP
		Inclination:	90°

Status: FINAL

Borehole Number: **BH205A**

Sheet 1 of 2

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	1.20	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	1.20	300	3.00	200	12/03	00:00	3.00	3.00	
1.20	3.00	Cable Percussion	Dando	Apex Drilling Services	3.00	200							

Scale:	1:50
Checked By:	JC + DD
Approved By:	NB
Start Date:	12/03/2026
Finish Date:	12/03/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples and Testing: Depth (m)	Ref	Tests / Results
MADE GROUND: Dark grey slightly sandy clayey silty GRAVEL with low cobble content. Gravel is fine to coarse angular of siltstone and slag. Cobbles are angular of slag. Sand is fine to coarse with common rootlets. MGR		0.15	279.65			0.00 - 0.50	B1	
						0.30	ES1	PID 0.30m, 0.0ppm
						0.50 - 1.20	B2	
MADE GROUND: Loose becoming dense dark grey silty sandy GRAVEL with high cobble content. Gravel is fine to coarse angular of slag, mudstone, siltstone and brick. Cobbles are angular of mudstone and slag. Sand is fine to coarse. MGR				▼		0.80	ES2	PID 0.80m, 0.0ppm
				▽		1.20 - 2.20	B3	SPT(C) 1.20m, N=8 (1,0/1,1,2,4)
						1.50	ES3	
								SPT(C) 2.00m, 50 (25 for 0mm/50 for 0mm)
EOH at 3.00m - Terminated due to refusal		3.00	276.80					SPT(C) 3.00m, 50 (25 for 0mm/50 for 0mm)

1 2 3 4 5 6 7 8 9 10

Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.

Chiselling

From (m)	To (m)	Time (mins)
1.70	2.00	30
2.00	2.20	30
2.20	2.60	60

Water Added

From (m)	To (m)

Hammer Information

Serial No.	Energy Ratio %
AP1	63

Groundwater

Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks
1.20	-	-	20	1.00	Seepage

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306191.00	Northing:	206807.00
Level:	279.80mAOD	Depth:	3.00m
Logger:	SP	Type:	CP
		Inclination:	90°

Status: FINAL

Borehole Number: **BH205A**

Sheet 2 of 2

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	1.20	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	1.20	300	3.00	200	12/03	00:00	3.00	3.00	
1.20	3.00	Cable Percussion	Dando	Apex Drilling Services	3.00	200							

Scale:	1:50
Checked By:	JC + DD
Approved By:	NB
Start Date:	12/03/2026
Finish Date:	12/03/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples and Testing: Depth (m)	Ref	Tests / Results

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Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.

Chiselling

From (m)	To (m)	Time (mins)
2.60	3.00	60

Water Added

From (m)	To (m)

Hammer Information

Serial No.	Energy Ratio %
AP1	63

Groundwater

Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306238.32	Northing:	207144.48
Level:	279.81mAOD	Depth:	7.50m
Logger:	SP	Type:	CP
		Inclination:	90°

Status: FINAL

Borehole Number: **BH301**

Sheet 1 of 1

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	1.20	Inspection Pit	Hand Excavation Tools	SWGT and GSTL	1.20	300	7.50	150	06/05	17:00	3.00	3.00	
1.20	7.50	Cable Percussion	Dando	Apex Drilling Services	7.95	150			07/05	17:00	7.00	7.00	
									08/05	17:00	7.50	7.50	

Scale: 1:50
Checked By: JC + DD
Approved By: NB
Start Date: 06/05/2026
Finish Date: 08/05/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples and Testing: Depth (m)	Ref	Tests / Results
MADE GROUND: Black MACADAM MGR		0.30	279.51			0.30 - 0.50 0.30 - 0.50	B1 ES1	PID 0.30m, 0.0ppm
MADE GROUND: Grey silty sandy angular to subrounded GRAVEL of sandstone and occasional limestone. Sand is fine to coarse. MGR		0.90	278.91			0.90 - 1.20 0.90 - 1.20 1.00 1.20 - 2.00 1.20 - 2.00	B2 ES2 D1 B3 ES3	PID 0.90m, 0.0ppm SPT(C) 1.20m, N=14 (3,2/3,3,3,5) PID 1.20m, 0.0ppm
MADE GROUND: Medium dense grey very silty very sandy GRAVEL. Gravel is angular to subrounded fine to coarse of occasional sandstone, slag and rare clinker. Sand is fine to coarse. MGR		2.00	277.81			1.95 1.95 - 2.20 2.00 - 2.20 2.00 - 3.00 2.00 - 6.50	B1 D1 ES4 B4 B4,5,6,7	 SPT(C) 2.00m, N=50 (5,7/8,13,14,15) PID 2.00m, 0.0ppm
MADE GROUND: Stiff dark brownish grey sandy gravelly CLAY with low cobble content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of mudstone, occasional sandstone, slag, rare clinker and brick fragments. Cobbles are subangular of sandstone and slag. MGR						3.00 - 4.00	B5	SPT(C) 3.00m, N=50 (25 for 75mm/50 for 35mm)
						4.00 - 5.00	B6	SPT(C) 4.00m, N=50 (25 for 75mm/50 for 15mm)
						5.00 - 6.00 5.00 - 6.50	ES5 B7	SPT(C) 5.00m, N=26 (6,8/9,7,5,5) PID 5.00m, 0.0ppm
								PID 6.00m, 0.0ppm
								SPT(C) 6.50m, N=50 (9,21/50 for 20mm)
EOH at 7.50m - Target depth achieved		7.50	272.31					SPT(C) 7.50m, N=20 (2,6/5,5,5,5)

Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.

Chiselling

From (m)	To (m)	Time (mins)

Water Added

From (m)	To (m)

Hammer Information

Serial No.	Energy Ratio %
AP2	71

Groundwater

Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306240.80	Northing:	207122.98
Level:	279.92mAOD	Depth:	5.00m
Logger:	SP	Type:	CP
		Inclination:	90°

Status: FINAL

Borehole Number: **BH302**

Sheet 1 of 1

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	1.20	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	1.20	300	5.00	150	10/05	17:00	3.00	3.00	2.3
1.20	5.00	Cable Percussion	Dando	Apex Drilling Services	5.00	150			11/05	17:00	5.00	5.00	4.3

Scale: 1:50
Checked By: JC + DD
Approved By: NB
Start Date: 08/05/2026
Finish Date: 11/05/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples and Testing: Depth (m)	Ref	Tests / Results
MADE GROUND: Grey sandy GRAVEL. Sand is fine to coarse. Gravel is angular to subangular fine to coarse of tarmac, concrete and limestone. Occasional subangular cobbles of tarmac MGR						0.00 - 0.30 0.00 - 0.30	B1 ES1	
		0.30	279.62			0.30 0.30 - 1.20 0.50 - 1.20	B2 ES2 B2	PID 0.40m, 0.0ppm
MADE GROUND: Grey silty sandy GRAVEL. Gravel is angular to subangular fine to coarse of concrete and limestone. Sand is fine to coarse. MGR								
MADE GROUND: Firm dark grey silty sandy GRAVEL. Gravel is subangular to subrounded fine to coarse of siltstone and mudstone. Sand is fine to coarse. MGR		1.20	278.72			1.20 - 2.00 1.20 - 2.50	ES3 B3	SPT(C) 1.20m, N=32 (3,6/8,8,8,8) PID 1.20m, 0.0ppm
MADE GROUND: Firm to stiff grey silty sandy GRAVEL with medium cobble content. Gravel is subangular to subrounded fine to coarse siltstone and mudstone becoming gravelly with depth. Sand is fine to coarse. Cobbles are are subangular of mudstone. MGR		2.00	277.92			2.00 - 3.00	B4	SPT(C) 2.00m, N=10 (3,3/2,3,3,2) PID 2.00m, 0.0ppm
						3.00 - 4.00 3.00 - 4.00	B5 ES4	SPT(C) 3.00m, N=50 (25 for 10mm/50 for 15mm)
MADE GROUND: Dense grey silty very sandy GRAVEL. Gravel is subangular to subrounded fine to coarse siltstone and mudstone with rare coal and clinker inclusions. Sand is fine to coarse. MGR		4.00	275.92			4.00 4.00 - 5.00	EW B6	SPT(C) 4.00m, N=50 (25 for 25mm/50 for 10mm)
EOH at 5.00m - Terminated due to refusal		5.00	274.92					SPT(C) 5.00m, N=50 (25 for 10mm/50 for 5mm)

Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.

Chiselling

From (m)	To (m)	Time (mins)
3.00	5.00	120

Water Added

From (m)	To (m)

Hammer Information

Serial No.	Energy Ratio %
AP2	71

Groundwater

Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks
4.30	-	-	20	3.95	Seepage

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306213.50	Northing:	207027.29
Level:	279.90mAOD	Depth:	3.20m
Logger:	SP	Type:	CP
		Inclination:	90°

Status: FINAL

Borehole Number: **BH303**

Sheet 1 of 2

Method, Plant and Crew				
From (m)	To (m)	Type	Plant Used	Crew
0.00	1.20	Inspection Pit	Hand Excavation Tools	Apex Drilling Services
1.20	3.20	Cable Percussion	Dando	Apex Drilling Services

Diameter		Casing	
Depth (m)	Diam (mm)	Depth(m)	Diam (mm)
1.20	300	3.00	200
3.20	200		

Drilling Progress by Time				
Date	Time	Depth (m)	Casing (m)	Water (m)
11/03	16:00	1.20	1.20	
17/03	17:00	3.20	3.20	

Scale:	1:50
Checked By:	JC + DD
Approved By:	NB
Start Date:	11/03/2026
Finish Date:	17/03/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples and Testing: Depth (m)	Ref	Tests / Results
MADE GROUND: Firm grey silty sandy GRAVEL with medium cobble content. Gravel is angular to sub angular fine to coarse siltstone, carbonaceous mudstone, slag occasional limestone and rare brick fragments. Cobbles are angular (to 80mm) of siltstone. Sand is fine to coarse. MGR						0.00 - 0.30	B1	
						0.10	ES1	
						0.30	ES2	
						0.30 - 1.00	B2	
						1.00	ES3	
						1.00 - 2.00	B3	SPT(C) 1.20m, N=8 (1,0/1,1,3,3)
						2.00	ES4	
						2.00 - 3.00	B4	SPT(C) 2.20m, N=42 (2,1/1,2,24,15)
						3.00	ES5	
EOH at 3.20m - Terminated due to refusal		3.20	276.70					SPT(C) 3.20m, 50 (25 for 75mm/50 for 0mm)

1 2 3 4 5 6 7 8 9 10

Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.

Chiselling		
From (m)	To (m)	Time (mins)
2.60	3.00	60

Water Added	
From (m)	To (m)

Hammer Information	
Serial No.	Energy Ratio %
AP1	63

Groundwater					
Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306213.50	Northing:	207027.29
Level:	279.90mAOD	Depth:	3.20m
Logger:	SP	Type:	CP
		Inclination:	90°

Status: FINAL

Borehole Number: **BH303**

Sheet 2 of 2

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	1.20	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	1.20	300	3.00	200	11/03	16:00	1.20	1.20	
1.20	3.20	Cable Percussion	Dando	Apex Drilling Services	3.20	200			17/03	17:00	3.20	3.20	

Scale: 1:50
Checked By: JC + DD
Approved By: NB
Start Date: 11/03/2026
Finish Date: 17/03/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples and Testing		
						Depth (m)	Ref	Tests / Results
						12.00	B3,4	

11 12 13 14 15 16 17 18 19 20

Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.

Chiselling			Water Added		Hammer Information	
From (m)	To (m)	Time (mins)	From (m)	To (m)	Serial No.	Energy Ratio %
					AP1	63

Groundwater						
Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks	

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306179.21	Northing:	206909.92
Level:	280.43mAOD	Depth:	3.00m
Logger:	SP	Type:	CP
		Inclination:	90°

Status: FINAL

Borehole Number: **BH304**

Sheet 1 of 1

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	1.20	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	1.20	300	3.00	200	16/03	17:00	1.20	1.20	
1.20	3.00	Cable Percussion	Dando	Apex Drilling Services	3.00	200			17/03	17:00	3.00	3.00	

Scale:	1:50
Checked By:	JC + DD
Approved By:	NB
Start Date:	16/03/2026
Finish Date:	17/03/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples and Testing: Depth (m)	Ref	Tests / Results
MADE GROUND: Brown slightly sandy slightly gravelly SILT with occasional rootlets. MGR		0.10	280.33			0.20 - 0.50	B1	
						0.30	ES1	PID 0.30m, 0.0ppm
MADE GROUND: Loose becoming dense grey silty sandy angular fine to coarse GRAVEL of slag and mudstone. Sand is fine to coarse. MGR						0.50 - 0.90	B2	
						0.80	ES2	PID 0.80m, 0.0ppm
						1.20 - 2.20	B3	SPT(C) 1.20m, N=9 (1,2/2,1,3,3)
						1.50	ES3	
						2.20 - 2.80	B4	SPT(C) 2.20m, N=30 (5,7/8,6,6,10)
						2.50	ES4	
								SPT(C) 2.80m, 50 (25 for 75mm/50 for 0mm)
EOH at 3.00m - Terminated due to refusal		3.00	277.43					

Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.

Chiselling			Water Added		Hammer Information	
From (m)	To (m)	Time (mins)	From (m)	To (m)	Serial No.	Energy Ratio %
2.80	3.00	60			AP1	63

Groundwater					
Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306165.48	Northing:	206802.25
Level:	279.45mAOD	Depth:	5.50m
Logger:	SP	Type:	CP
		Inclination:	90°

Status: FINAL

Borehole Number: **BH305**

Sheet 1 of 1

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	1.20	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	1.20	300	5.00	200	16/03	17:00	0.50	-	
1.20	5.50	Cable Percussion	Dando	Apex Drilling Services	5.50	200			17/03	17:00	5.50	5.00	

Scale: 1:50
Checked By: JC + DD
Approved By: NB
Start Date: 16/03/2026
Finish Date: 17/03/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples and Testing: Depth (m)	Ref	Tests / Results
MADE GROUND: Dark grey sandy gravelly SILT. Gravel is fine to coarse angular of slag and mudstone. Sand is fine to coarse with rootlets.		0.10	279.35			0.20 - 0.50	B1	
						0.30	ES1	PID 0.30m, 0.0ppm
MGR						0.50 - 0.90	B2	
MADE GROUND: Medium dense grey slightly silty slightly sandy GRAVEL with medium cobble content. Gravel is fine to coarse angular of siltstone. Sand is fine to coarse. Cobbles are angular of siltstone.						0.80	ES2	PID 0.80m, 0.0ppm
MGR						1.20	ES3	SPT(C) 1.20m, N=13 (3,3/2,3,5,3)
						1.20 - 1.50	B3	PID 1.20m, 0.0ppm
						2.00 - 2.30	B4	SPT(C) 2.00m, N=19 (3,4/4,5,6,4)
						2.20	ES4	PID 2.20m, 0.0ppm
Firm grey mottled brown and black sandy gravelly SILT/CLAY. Gravel is fine to medium subangular to subrounded of mixed lithology. Sand is fine to coarse. (POSSIBLE SOUTH WALES LOWER COAL MEASURES)		3.00	276.45			3.00 - 3.30	B5	SPT(C) 3.00m, N=13 (3,2/3,3,3,4)
SWLCM						3.20	ES5	PID 3.20m, 0.0ppm
Medium dense bcoming dense grey clayey silty sandy GRAVEL with low boulder content. Gravel is fine to coarse angular of mudstone. Sand is fine to coarse. Cobbles are angular of mudstone. (POSSIBLE SOUTH WALES LOWER COAL MEASURES)		4.00	275.45			4.00 - 4.30	B6	SPT(C) 4.00m, N=27 (2,5/5,7,9,6)
SWLCM						4.20	ES6	PID 4.20m, 0.0ppm
Becoming dark greyish black.						5.00 - 5.30	B7	SPT(C) 5.00m, 50 (6,7/50 for 170mm)
						5.20	ES	PID 5.20m, 0.0ppm
EOH at 5.50m - Terminated due to refusal		5.50	273.95					

Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.

Chiselling			Water Added		Hammer Information	
From (m)	To (m)	Time (mins)	From (m)	To (m)	Serial No.	Energy Ratio %
5.40	5.50	60			AP2	71

Groundwater					
Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306165.48	Northing:	206802.25
Level:	279.45mAOD	Depth:	5.50m
Logger:	SP	Type:	CP
		Inclination:	90°

Status: FINAL

Borehole Number: **BH305**

Sheet 1 of 1

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	1.20	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	1.20	300	5.00	200	16/03	17:00	0.50	-	
1.20	5.50	Cable Percussion	Dando	Apex Drilling Services	5.50	200			17/03	17:00	5.50	5.00	

Scale: 1:50
Checked By: JC + DD
Approved By: NB
Start Date: 16/03/2026
Finish Date: 17/03/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples and Testing: Depth (m)	Ref	Tests / Results
MADE GROUND: Dark grey sandy gravelly SILT. Gravel is fine to coarse angular of slag and mudstone. Sand is fine to coarse with rootlets.		0.10	279.35			0.20 - 0.50	B1	
						0.30	ES1	PID 0.30m, 0.0ppm
MGR						0.50 - 0.90	B2	
MADE GROUND: Medium dense grey slightly silty slightly sandy GRAVEL with medium cobble content. Gravel is fine to coarse angular of siltstone. Sand is fine to coarse. Cobbles are angular of siltstone.						0.80	ES2	PID 0.80m, 0.0ppm
MGR						1.20	ES3	SPT(C) 1.20m, N=13 (3,3/2,3,5,3)
						1.20 - 1.50	B3	PID 1.20m, 0.0ppm
						2.00 - 2.30	B4	SPT(C) 2.00m, N=19 (3,4/4,5,6,4)
						2.20	ES4	PID 2.20m, 0.0ppm
Firm grey mottled brown and black sandy gravelly SILT/CLAY. Gravel is fine to medium subangular to subrounded of mixed lithology. Sand is fine to coarse. (POSSIBLE SOUTH WALES LOWER COAL MEASURES)		3.00	276.45			3.00 - 3.30	B5	SPT(C) 3.00m, N=13 (3,2/3,3,3,4)
SWLCM						3.20	ES5	PID 3.20m, 0.0ppm
Medium dense bcoming dense grey clayey silty sandy GRAVEL with low boulder content. Gravel is fine to coarse angular of mudstone. Sand is fine to coarse. Cobbles are angular of mudstone. (POSSIBLE SOUTH WALES LOWER COAL MEASURES)		4.00	275.45			4.00 - 4.30	B6	SPT(C) 4.00m, N=27 (2,5/5,7,9,6)
SWLCM						4.20	ES6	PID 4.20m, 0.0ppm
Becoming dark greyish black.						5.00 - 5.30	B7	SPT(C) 5.00m, 50 (6,7/50 for 170mm)
						5.20	ES	PID 5.20m, 0.0ppm
EOH at 5.50m - Terminated due to refusal		5.50	273.95					

Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.

Chiselling			Water Added		Hammer Information	
From (m)	To (m)	Time (mins)	From (m)	To (m)	Serial No.	Energy Ratio %
5.40	5.50	60			AP2	71

Groundwater					
Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306144.34	Northing:	206718.36
Level:	278.90mAOD	Depth:	1.80m
Logger:	SP	Type:	CP
		Inclination:	90°

Status: FINAL

Borehole Number: **BH306**

Sheet 1 of 1

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	1.20	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	1.20	300	1.60	200	17/03	17:00	1.60	1.60	
1.20	1.80	Cable Percussion	Dando	Apex Drilling Services	1.80	200			18/03	17:00	1.80	1.60	

Scale:	1:50
Checked By:	JC + DD
Approved By:	NB
Start Date:	17/03/2026
Finish Date:	18/03/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples and Testing: Depth (m)	Ref	Tests / Results
MADE GROUND: Brown slightly gravelly slightly sandy SILT with occasional rootlets. (TOPSOIL) MGR		0.10	278.80			0.20 - 0.50	B1	
						0.30	ES1	PID 0.30m, 0.0ppm
MADE GROUND: Grey silty sandy angular fine to coarse GRAVEL of mudstone, brick, concrete and slag with medium cobble content. Sand is fine to coarse. MGR						0.50 - 0.80	B2	
						0.80	ES2	PID 0.80m, 0.0ppm
MADE GROUND: Grey slightly sandy silty very clayey GRAVEL. Gravel is fine to coarse angular of mudstone. Sand is fine to coarse. MGR		1.20	277.70			1.20 - 1.40	B3	
						1.30	ES3	
						1.40	EW	
EOH at 1.80m - Terminated due to refusal		1.80	277.10					SPT(C) 1.80m, 50 (25 for 10mm/50 for 0mm)

Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.

Chiselling

From (m)	To (m)	Time (mins)
1.40	1.60	60
1.60	1.80	60

Water Added

From (m)	To (m)

Hammer Information

Serial No.	Energy Ratio %
AP1	63

Groundwater

Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306168.48	Northing:	206698.90
Level:	278.90mAOD	Depth:	2.20m
Logger:	Calum Stringer +SP	Type:	CP
		Inclination:	90°

Status: FINAL

Borehole Number: **BH307**

Sheet 1 of 1

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	1.00	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	1.00	300	1.80	200	18/03	17:00	2.20	1.80	
1.00	2.20	Cable Percussion	Dando	Apex Drilling Services	2.20	200							

Scale: 1:50
Checked By: JC + DD
Approved By: NB
Start Date: 12/03/2026
Finish Date: 18/03/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples and Testing: Depth (m)	Ref	Tests / Results
MADE GROUND: Brown slightly gravelly slightly sandy SILT with occasional rootlets. (TOPSOIL) MGR		0.10	278.80			0.20 - 0.50 0.30	B1 ES	
MADE GROUND: Grey silty sandy angular fine to coarse GRAVEL of mudstone and slag with medium cobble content. Cobbles are angular mudstone. Sand is fine to coarse. MGR						0.50 - 1.20 0.60	B2 ES	
Dense grey very silty gravelly SAND. Gravel is fine to coarse subangular to subrounded of mudstone and siltstone. Sand is fine to coarse. (POSSIBLE SOUTH WALES LOWER COAL MEASURES) SWLCM *At 1.00m bgl boulder sandstone.*		1.00	277.90			1.00	ES	
						1.20 - 2.20	B3	SPT(C) 1.20m, 50 (25 for 75mm/50 for 150mm)
						1.50	ES	
								SPT(C) 1.80m, 50 (25 for 0mm/50 for 0mm)
EOH at 2.20m - Terminated due to refusal		2.20	276.70					

Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.

Chiselling

From (m)	To (m)	Time (mins)
1.20	1.50	30
1.50	1.80	30
1.80	2.20	60

Water Added

From (m)	To (m)

Hammer Information

Serial No.	Energy Ratio %
AP1	63

Groundwater

Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306210.42	Northing:	206544.30
Level:	278.97mAOD	Depth:	1.20m
Logger:	SP	Type:	CP
		Inclination:	°

Status: FINAL

Borehole Number: **BH308**

Sheet 1 of 1

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	0.60	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	1.20	300			19/03	00:00	1.20	0.00	
0.60	1.20	Cable Percussion	Dando	Apex Drilling Services									

Scale:	1:50
Checked By:	JC + DD
Approved By:	NB
Start Date:	19/03/2026
Finish Date:	19/03/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples and Testing: Depth (m)	Ref	Tests / Results
MADE GROUND: Grey silty slightly sandy GRAVEL with medium cobble content. Gravel is fine to coarse angular of mudstone. Cobbles are subangular of mudstone. Sand is fine to coarse. MGR *Common rootlets.* *Common gravel and cobbles of slag.*						0.00 - 0.90 0.30 0.80	B1 ES1 ES2	
EOH at 1.20m - Terminated due to refusal on boulder		1.20	277.77					

1 2 3 4 5 6 7 8 9 10

Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2. Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.

Chiselling

From (m)	To (m)	Time (mins)
0.80	0.90	45
0.90	1.00	15
1.00	1.00	60

Water Added

From (m)	To (m)

Hammer Information

Serial No.	Energy Ratio %

Groundwater

Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306319.42	Northing:	207087.73
Level:	278.72mAOD	Depth:	20.00m
Logger:	SP	Type:	CP+RO+RC
		Inclination:	90°

Status: FINAL

Borehole Number: **BH401**

Sheet 1 of 2

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	0.60	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	1.20	300	1.20	165	07/04	17:00	3.00	1.20	
0.60	0.90	Cable Percussion	Dando	Apex Drilling Services	20.00	102			08/04	17:00	12.50	-	
0.90	1.20	Rotary Open Hole	Klemm	Apex Drilling Services					10/04	17:00	20.00	-	
1.20	20.00	Rotary Core	Klemm	Apex Drilling Services					13/04	00:00	20.00	-	

Scale: 1:50
Checked By: JC + DD
Approved By: NB
Start Date: 17/03/2026
Finish Date: 13/04/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples and Testing: Depth (m)	Ref	Tests / Results
MADE GROUND: Greyish brown slightly clayey GRAVEL and COBBLES, Gravel is subangular to subrounded fine to coarse slag, siltstone, sandstone, limestone. Cobbles are subangular to subrounded (to 150mm) slag, siltstone, with occasional ironstone. MGR						0.00 - 0.30	B1	
						0.30 - 0.50	B2	PID 0.30m, 0.0ppm
From 0.30m bgl becoming slightly silty slightly clayey sandy GRAVEL and COBBLES.		0.50	278.22					
MADE GROUND: Brown slightly sandy silty gravelly CLAY. Gravel is fine to medium angular to subangular of mudstone and sandstone. Sand is fine to coarse. MGR						0.70 - 1.00	B3	
						0.80	ES1	PID 0.80m, 0.0ppm
						1.00 - 1.20	B4	
From 1.00m bgl becoming sandy.						1.20	ES2	SPT(C) 1.20m, 50 (25 for 116mm/50 for 80mm) PID 1.20m, 0.0ppm
MADE GROUND: Limited recovery. Core recovered comprises dense greyish brown clayey GRAVEL & COBBLES. Gravel is angular to subangular fine to coarse slag, limestone and sandstone. 1no cobble 180mm of cored light red sandstone. MGR		1.20	277.52			1.20 2.00		50 0 0
MADE GROUND: Dense light greyish brown sandy slightly clayey angular to subangular fine to coarse GRAVEL of slightly porous slag, limestone and siltstone. Sand is medium to coarse. MGR		2.00	276.72			2.00 - 2.50	B5	SPT(C) 2.00m, 50 (25 for 36mm/50 for 12mm)
						2.00 2.50		100 0 0
						2.30	ES3	PID 2.30m, 0.0ppm
Firm light brown gravelly silty CLAY with medium to high cobble content. Gravel is subangular to subrounded fine to coarse siltstone, sandstone and limestone. Cobbles are subangular to subrounded limestone. (GLACIAL TILL) TILL		2.50	276.22			2.50 3.00		100 0 0
Limited recovery. Core recovered as dense grey subangular COBBLES up to 100mm of limestone and sandstone. [Fine lost through flush] (GLACIAL TILL) TILL		3.00	275.72			3.00 4.00		30 0 0 SPT(C) 3.00m, 50 (25 for 72mm/50 for 107mm)
No recovery.		4.00	274.72			4.00 4.50		0 0 0 SPT(C) 4.00m, 50 (5,20/50 for 12mm)
Limited recovery. Core recovered as locally rinded dense grey GRAVEL and COBBLES. Gravel is subangular coarse sandstone and limestone. Cobbles are subangular to subrounded (up to 100mm) sandstone and limestone. [Fines lost through flush] (GLACIAL TILL) TILL		4.50	274.22			4.50 5.00		60 0 0
						5.00 6.50		45 0 0 SPT(C) 5.00m, 50 (25 for 120mm/50 for 191mm)
						6.50 7.00		20 0 0 SPT(C) 6.50m, 50 (10,13/50 for 183mm)
Firm to stiff thinly laminated (0 to 5 degrees) grey to dark grey slightly gravelly locally very gravelly CLAY. Gravel is angular to subangular tabular fine to coarse locally ordered lithorelicts of weak mudstone. (POSSIBLE WEATHERED SOUTH WALES LOWER COAL MEASURES) SWLCM		7.00	271.72			7.00 - 8.00	B6	
						7.50	D1	7.00 8.00 100 0 0
No recovery.		8.00	270.72					
Very weak to weak thickly laminated (0 to 5 degrees) grey to dark grey slightly carbonaceous MUDSTONE. Discontinuities: 1) 0 to 5 degrees along bedding, extremely closely spaced, planar, smooth with occasional light orangish brown surface staining. 2) Locally 80 to 90 degrees, planar, smooth. (SOUTH WALES LOWER COAL MEASURES) SWLCM		8.40	270.32			8.00 9.50		73 0 0
From 9.30m to 9.70m bgl frequent thin beds of carbonaceous mudstone. Weathered to clay.								
Moderately weak to medium strong thinly bedded (0 to 10 degrees) grey SILTSTONE with closely spaced of very weak siltstone/mudstone. Discontinuities: 1) 0 to 10 degrees along bedding, closely spaced, undulating, rough with orangish brown surface staining. 2) 60 to 70 degrees, closely to medium spaced, undulating, rough with orangish brown surface staining. (SOUTH WALES LOWER COAL MEASURES) SWLCM		9.70	269.02			9.80 - 9.90	C1	

Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2. Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.

Chiselling

From (m)	To (m)	Time (mins)
0.30	0.70	60
0.60	0.90	60
0.90	1.20	40

Water Added

From (m)	To (m)

Hammer Information

Serial No.	Energy Ratio %
AP2	71
AP3	60

Groundwater

Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306319.42	Northing:	207087.73
Level:	278.72mAOD	Depth:	20.00m
Logger:	SP	Type:	CP+RO+RC
		Inclination:	90°

Status: FINAL

Borehole Number: **BH401**

Sheet 2 of 2

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	0.60	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	1.20	300	1.20	165	07/04	17:00	3.00	1.20	
0.60	0.90	Cable Percussion	Dando	Apex Drilling Services	20.00	102			08/04	17:00	12.50	-	
0.90	1.20	Rotary Open Hole	Klemm	Apex Drilling Services					10/04	17:00	20.00	-	
1.20	20.00	Rotary Core	Klemm	Apex Drilling Services					13/04	00:00	20.00	-	

Scale: 1:50
Checked By: JC + DD
Approved By: NB
Start Date: 17/03/2026
Finish Date: 13/04/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples, Tests and Rotary Coring: Depth (m)	Ref	Core Run	FI	TCR	SCR	RQD	Tests / Results
Moderately weak to medium strong thinly bedded (0 to 10 degrees) grey SILTSTONE with closely spaced of very weak siltstone/mudstone. Discontinuities: 1) 0 to 10 degrees along bedding, closely spaced, undulating, rough with orangish brown surface staining. 2) 60 to 70 degrees, closely to medium spaced, undulating, rough with orangish brown surface staining. (SOUTH WALES LOWER COAL MEASURES) SWLCM *From 10.10m to 10.40m bgl very weak mudstone.* *From 10.60m to 10.70m bgl very weak mudstone.* *From 11.00m to 11.20m bgl 2no 80 to 90 degrees, undulating, rough discontinuity.*						10.50 - 10.60	C2	9.50 11.00		100	33	13	
Strong thickly laminated to very thinly bedded (0 to 10 degrees) light grey SILTSTONE with occasional thin to thick laminations if fine grained sandstone. Discontinuities are 0 to 10 degrees along bedding, closely spaced, planar, smooth with orangish surface staining. (SOUTH WALES LOWER COAL MEASURES) SWLCM *From 11.45m to 11.65m bgl 1 to 2no 90 degrees, planar, smooth discontinuity with light orangish brown surface staining.*		11.20	267.52			11.70 - 11.85	C3	11.00 12.50		93	70	40	
From 13.50m to 14.75m bgl reddish brown surface staining and light brown discolouration.						13.60 - 13.70	C4	12.50 14.00		100	50	27	
Extremely to very weak grey MUDSTONE with very closely spaced, 45 to 70 degrees, planar, smooth discontinuity locally weathered to clay and non intact. (SOUTH WALES LOWER COAL MEASURES) SWLCM		14.75	263.97					14.00 15.50		100	0	0	
Moderately weak to medium strong very thinly bedded (0 to 5 degrees) grey slightly carbonaceous MUDSTONE with thin beds of siltstone. Discontinuities: 1) 0 to 5 degrees, very closely to closely spaced, planar, smooth. 2) 1 to 2no 90 degrees, planar, smooth. (SOUTH WALES LOWER COAL MEASURES) SWLCM *From 16.50m bgl 60 to 70 degrees, closely spaced, planar, smooth discontinuity.*		15.50	263.22					15.50 17.00		100	13	0	
Limited recovery. Core recovered as grey to dark grey clayey medium to coarse SAND with occasional coarse subangular gravels of mudstone. (SOUTH WALES LOWER COAL MEASURES) SWLCM		17.00	261.72										
Moderately weak to medium strong very thinly bedded (0 to 5 degrees) grey slightly carbonaceous SILTSTONE. Partially non intact. Discontinuities: 1) 0 to 5 degrees, very closely to closely spaced, planar to undulating, smooth. 2) 60 to 70 degrees, closely spaced, planar, smooth. 3) 80 to 90 degrees (1 to 2no) planar, smooth. (SOUTH WALES LOWER COAL MEASURES) SWLCM *From 19.00m to 19.25m bgl light reddish brown discolouration penetrating to 10mm.* *From 19.80m bgl up to 5mm of calcite infill.*		17.70	261.02			17.80 - 17.90	C5	17.00 18.50		73	1	1	
								18.50 19.25		100	0	0	
								19.25 20.00		100	0	0	
EOH at 20.00m - Achieved target depth		20.00	258.72										

Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.

Drilling Fluid

From (m)	To (m)	Return Min %	Colour	Type
12.50	14.00	80	Grey	Water
14.00	15.50	80	Grey	Water
15.50	17.00	85	Grey	Water

Groundwater

Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Hammer Information

Serial No.	Energy Ratio %
AP2	71
AP3	60

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306242.99	Northing:	206769.12
Level:	280.91mAOD	Depth:	22.40m
Logger:	IR	Type:	RC
		Inclination:	90°

Status: FINAL

Borehole Number: **BH402**

Sheet 1 of 6

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	1.20	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	1.20	300	4.00	165	30/04	17:00	13.70	4.00	
1.20	22.40	Rotary Core	Fraste	Apex Drilling Services	22.40	102			01/05	17:00	22.40	-	

Scale: 1:50
Checked By: JC + DD
Approved By: NB
Start Date: 30/04/2026
Finish Date: 01/05/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples, Tests and Rotary Coring: Depth (m)	Ref	Core Run	FI	TCR	SCR	RQD	Tests / Results
MADE GROUND: Dark grey sandy clayey subangular to subrounded fine to coarse GRAVEL of slag with occasional siltstone, ironstone and mudstone with high cobble content. Sand is fine to coarse. Cobbles are subangular slag. MGR *At 0.10m bgl common rootlets.* *From 0.30m to 0.40m bgl layer of hard slag.*						0.00 - 0.30 0.20 0.30 0.50 - 0.80 0.80	B1 D1 ES1 B2 ES						
MADE GROUND: Greyish black gravelly silty clayey fine to coarse SAND. Gravel is subangular to subrounded fine to medium mixed lithologies. MGR		0.70	280.21										
MADE GROUND: Limited recovery. Core recovered as dense grey subangular fine to coarse GRAVEL and COBBLES of slightly porous slag and limestone. MGR		1.20	279.71					1.20 2.10		44	0	0	SPT(C) 1.20m, N=50 (10,13/50 for 245mm)
MADE GROUND: Non intact. Recovered as medium dense grey subangular fine to medium GRAVEL of predominately porous slag. MGR		2.10	278.81					2.10 3.10		60	0	0	SPT(C) 2.10m, N=25 (3,11/9,6,6,4)
No recovery.		3.10	277.81					3.10 4.10		0	0	0	SPT(C) 3.10m, N=37 (5,6/6,9,10,12)
MADE GROUND: Limited recovery. Core recovered as dense grey subangular medium to coarse GRAVEL of fused and porous slag. MGR		4.10	276.81					4.10 4.70		42	0	0	SPT(C) 4.10m, N=39 (3,6/5,7,12,15)
No recovery.		4.70	276.21					4.70 5.20		0	0	0	
Medium strong to strong very thinly bedded (0 to 10 degrees) grey to light grey fine grained SANDSTONE. Discontinuities are 0 to 10 degrees, closely spaced, planar to undulating, smooth and rough with reddish brown surface staining. (SOUTH WALES LOWER COAL MEASURES) SWLCM *From 5.90m to 6.50m bgl discontinuities are 80 to 90 degrees (1 to 2no), planar locally curved with reddish brown surface staining and <1mm of yellow clay infill.* *From 6.90m to 7.20m bgl discontinuities are 70 degrees, planar to stepped, slightly rough with reddish brown surface staining and <1mm of yellow clay infill.* *From 6.90m to 8.70m bgl partially non intact close to 70 to 90 degrees discontinuity.* *From 7.10m to 9.00m bgl discontinuities are 80 to 90 degrees (1 to 2no), planar locally curved with reddish brown surface staining and <1mm of yellow clay infill.*		5.50	275.41			5.50 - 5.60 6.40 - 6.50 8.00 - 8.10	C1 C2 C3	5.20 5.70 5.70 6.20 6.20 7.70 7.70 9.20		60 100 100 100	40 70 53 30	0 20 40 0	SPT(C) 5.20m, N=37 (1,1/2,3,15,17)
Moderately weak thickly laminated to very thinly bedded (0 to 10 degrees) grey MUDSTONE with closely spaced very thin beds of extremely weak fissile mudstone. Predominately non intact. Discontinuities are 0 to 10 and 70 to 90 degrees, closely spaced, planar, smooth with reddish brown and orange surface staining. (SOUTH WALES LOWER COAL MEASURES) SWLCM		9.00	271.91					9.20 10.70		93	13	0	

Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.

Drilling Fluid

From (m)	To (m)	Return Min %	Colour	Type
1.20	2.10	50	Grey	Water
2.10	3.10	50	Grey	Water
3.10	4.10	50	Grey	Water

Groundwater

Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Hammer Information

Serial No.	Energy Ratio %
AP5	65

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306242.99	Northing:	206769.12
Level:	280.91mAOD	Depth:	22.40m
Logger:	IR	Type:	RC
		Inclination:	90°

Status: FINAL

Borehole Number: **BH402**

Sheet 2 of 6

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	1.20	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	1.20	300	4.00	165	30/04	17:00	13.70	4.00	
1.20	22.40	Rotary Core	Fraste	Apex Drilling Services	22.40	102			01/05	17:00	22.40	-	

Scale: 1:50
Checked By: JC + DD
Approved By: NB
Start Date: 30/04/2026
Finish Date: 01/05/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples, Tests and Rotary Coring: Depth (m)	Ref	Core Run	FI	TCR	SCR	RQD	Tests / Results
Moderately weak thickly laminated to very thinly bedded (0 to 10 degrees) grey MUDSTONE with closely spaced very thin beds of extremely weak fissile mudstone. Predominately non intact. Discontinuities are 0 to 10 and 70 to 90 degrees, closely spaced, planar, smooth with reddish brown and orange surface staining. (SOUTH WALES LOWER COAL MEASURES) SWLCM *From 11.20m to 11.30m bgl medium strong siltstone.*						11.20 - 11.30	C4	10.70 12.20		93	37	27	
Strong thickly laminated to very thinly locally cross bedded bedded (0 to 10 degrees) light grey fine grained SANDSTONE. Discontinuities are 0 to 10 degrees, closely spaced, planar to undulating, smooth and rough with orange surface staining. (SOUTH WALES LOWER COAL MEASURES) SWLCM *From 11.80m to 12.45m bgl discontinuities are 80 to 90 degrees, planar to curved, slightly rough with dark reddish brown and orange surface staining.* *From 13.10m to 13.70m bgl discontinuities are 80 to 90 degrees, planar to curved, slightly rough with dark reddish brown and orange surface staining.*		11.80	269.11			12.50 - 12.65	C5	12.20 13.70		100	87	37	
Medium strong to strong thickly laminated to very thinly bedded (0 to 5 degrees) light grey SILTSTONE with occasional thin laminations of fine sandstone. Discontinuities: 1) 0 to 5 degrees, closely spaced, planar to undulating, smooth. 2) 70 degrees, medium to widely spaced, planar, smooth with reddish brown surface staining. (SOUTH WALES LOWER COAL MEASURES) SWLCM *From 14.40m to 15.10m bgl moderately weak to weak close to 70 degrees discontinuity. Non intact. Locally weathered to clay with reddish brown surface staining.* *From 16.80m to 17.30m bgl moderately weak to weak close to 1 to 2no 70 degrees discontinuity. Non intact with reddish brown surface staining.*		13.70	267.21			15.40 - 15.70	C6	13.70 15.10 16.60		86 93 100	32 90 46	7 60 21	
Moderately weak thickly laminated to very thinly bedded (0 to 5 degrees) light grey to grey MUDSTONE with closely spaced thin beds of extremely to very weak fissile mudstone. Discontinuities: 1) 0 to 5 degrees, very closely spaced, planar, smooth. 2) 70 degrees, closely spaced, stepped, rough. (SOUTH WALES LOWER COAL MEASURES) SWLCM *From 17.80m to 20.60m bgl dark grey carbonaceous with frequent shells.*		17.80	263.11					17.80 19.40		100	50	9	
Medium strong very thinly bedded (0 to 5 degrees) grey SILTSTONE. Discontinuities: 1) 0 to 5 degrees, closely spaced, planar to undulating, smooth and rough. 2) 50 degrees, closely to medium spaced, planar, smooth. (SOUTH WALES LOWER COAL MEASURES) SWLCM		19.00	261.91			19.10 - 19.30	C7						

Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.

Drilling Fluid

From (m)	To (m)	Return Min %	Colour	Type
4.10	4.70	50	Grey	Water
4.70	5.20	50	Grey	Water
5.20	5.70	60	Grey	Water

Groundwater

Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Hammer Information

Serial No.	Energy Ratio %
AP5	65

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306242.99	Northing:	206769.12
Level:	280.91mAOD	Depth:	22.40m
Logger:	IR	Type:	RC
		Inclination:	90°

Status: FINAL

Borehole Number: **BH402**

Sheet 3 of 6

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	1.20	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	1.20	300	4.00	165	30/04	17:00	13.70	4.00	
1.20	22.40	Rotary Core	Fraste	Apex Drilling Services	22.40	102			01/05	17:00	22.40	-	

Scale: 1:50
Checked By: JC + DD
Approved By: NB
Start Date: 30/04/2026
Finish Date: 01/05/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples, Tests and Rotary Coring: Depth (m)	Ref	Core Run	FI	TCR	SCR	RQD	Tests / Results
Medium strong very thinly bedded (0 to 5 degrees) grey SILTSTONE. Discontinuities: 1) 0 to 5 degrees, closely spaced, planar to undulating, smooth and rough. 2) 50 degrees, closely to medium spaced, planar, smooth. (SOUTH WALES LOWER COAL MEASURES) SWLCM								19.40 20.90		93	67	13	
From 21.40m to 22.40m bgl partially non intact. Close to 3 to 4no 70 degrees, planar, smooth discontinuity.						21.10 - 21.25	C8	20.90 22.40		100	40	13	
EOH at 22.40m - Achieved target depth		22.40	258.51										

Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.

Drilling Fluid

From (m)	To (m)	Return Min %	Colour	Type
5.70	6.20	60	Grey	Water
6.20	7.70	60	Grey	Water
7.70	9.20	60	Grey	Water

Groundwater

Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Hammer Information

Serial No.	Energy Ratio %
AP5	65

Project Number: **784-B077402**

TETRA TECH

Project: **Goat Mill Road**

Location: **Merthyr Tydfil**

Client: **Merthyr Tydfil County Borough Council**

Location Details			
Easting:	306242.99	Northing:	206769.12
Level:	280.91mAOD	Depth:	22.40m
Logger:	IR	Type:	RC
		Inclination:	90°

Status: FINAL

Borehole Number: **BH402**

Sheet 4 of 6

Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)
0.00	1.20	Inspection Pit	Hand Excavation Tools	Apex Drilling Services	1.20	300	4.00	165	30/04	17:00	13.70	4.00	
1.20	22.40	Rotary Core	Fraste	Apex Drilling Services	22.40	102			01/05	17:00	22.40	-	

Scale:	1:50
Checked By:	JC + DD
Approved By:	NB
Start Date:	30/04/2026
Finish Date:	01/05/2026

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples, Tests and Rotary Coring							
						Depth (m)	Ref	Core Run	FI	TCR	SCR	RQD	Tests / Results

31
32
33
34
35
36
37
38
39
40

Observations / Remarks

1. Location cleared with GPR and CAT 4+ by Safe Dig Ltd.
2, Position re-scanned every 300mm by TT engineer to 1.20m bgl or refusal.
3. ES= Environmental Sample, B=Bulk Disturbed Sample, D= Small Disturbed Sample
4. Location reinstated as instructed by WSP.

Drilling Fluid

From (m)	To (m)	Return Min %	Colour	Type
9.20	10.70	60	Grey	Water
10.70	12.20	50	Grey	Water
12.20	13.70	60	Grey	Water

Groundwater

Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks

Hammer Information

Serial No.	Energy Ratio %
AP5	65

Project Number: **784-B077402**