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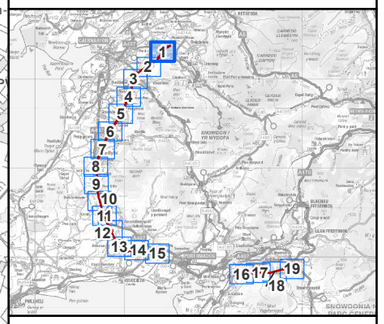

Legend

- Indicative Wider Works Site Boundary
- 250m Buffer of Indicative Wider Works Site Boundary

BGS Borehole Depth

- Confidential
- Greater than 30m

BGS Artificial and Made Ground 50k

- Made Ground (Undivided)

BGS Superficial Geology 50k

- Alluvium - Clay, Silt, Sand And Gravel
- Head - Clay, Silt, Sand And Gravel
- Peat - Peat
- River Terrace Deposits (Undifferentiated) - Sand And Gravel
- Till, Devensian - Diamicton

NOTES

1. Artificial, made ground, superficial geology, and BGS Borehole data supplied as part of the Groundsure data search request. The search area was 250m from the Works site boundary at the time of the search request.

Rev	Date	Description	GIS	Chk	App
A	27/08/2025	Environmental Statement	LP	RR	NL

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Scheme: PENTIR TO TRAWSFYNYDD REINFORCEMENT

Volume: VOLUME 8: APPENDICES WIDER WORKS

Document Title: FIGURE 6.A.1 MADE GROUND, SUPERFICIAL GEOLOGY AND HISTORIC BOREHOLE LOGS

Creator:	Date:	Checker:	Date:	Approver:	Date:
LP	27/08/2025	SB	27/08/2025	NL	27/08/2025

Document Type:	Scale:	Format:	Sheets:	Rev:
FIGURE	1:8,000	A3	1 OF 19	A

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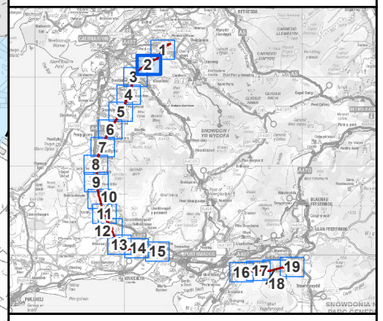
WIDER WORKS ROUTE LEGEND



Legend

- Indicative Wider Works Site Boundary
- 250m Buffer of Indicative Wider Works Site Boundary

BGS Borehole Depth

- Confidential
- 10m - 30m
- Greater than 30m

BGS Superficial Geology 50k

- Alluvium - Clay, Silt, Sand And Gravel
- Glaciofluvial Deposits, Devensian - Sand And Gravel
- Head - Clay, Silt, Sand And Gravel
- Hummocky (Moundy) Glacial Deposits - Gravel, Sand, Silt And Clay
- Peat - Peat
- Till, Devensian - Diamicton

NOTES

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Rev	Date	Description	GIS	Chk	App
A	27/08/2025	Environmental Statement	LP	RR	NL

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Scheme: PENTIR TO TRAWSFYNYDD REINFORCEMENT

Volume: VOLUME 8: APPENDICES
WIDER WORKS

Document Title: FIGURE 6.A.1
MADE GROUND, SUPERFICIAL GEOLOGY
AND HISTORIC BOREHOLE LOGS

Creator:	Date:	Checker:	Date:	Approver:	Date:
LP	27/08/2025	SB	27/08/2025	NL	27/08/2025

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FIGURE	1:8,000	A3	2 OF 19	A

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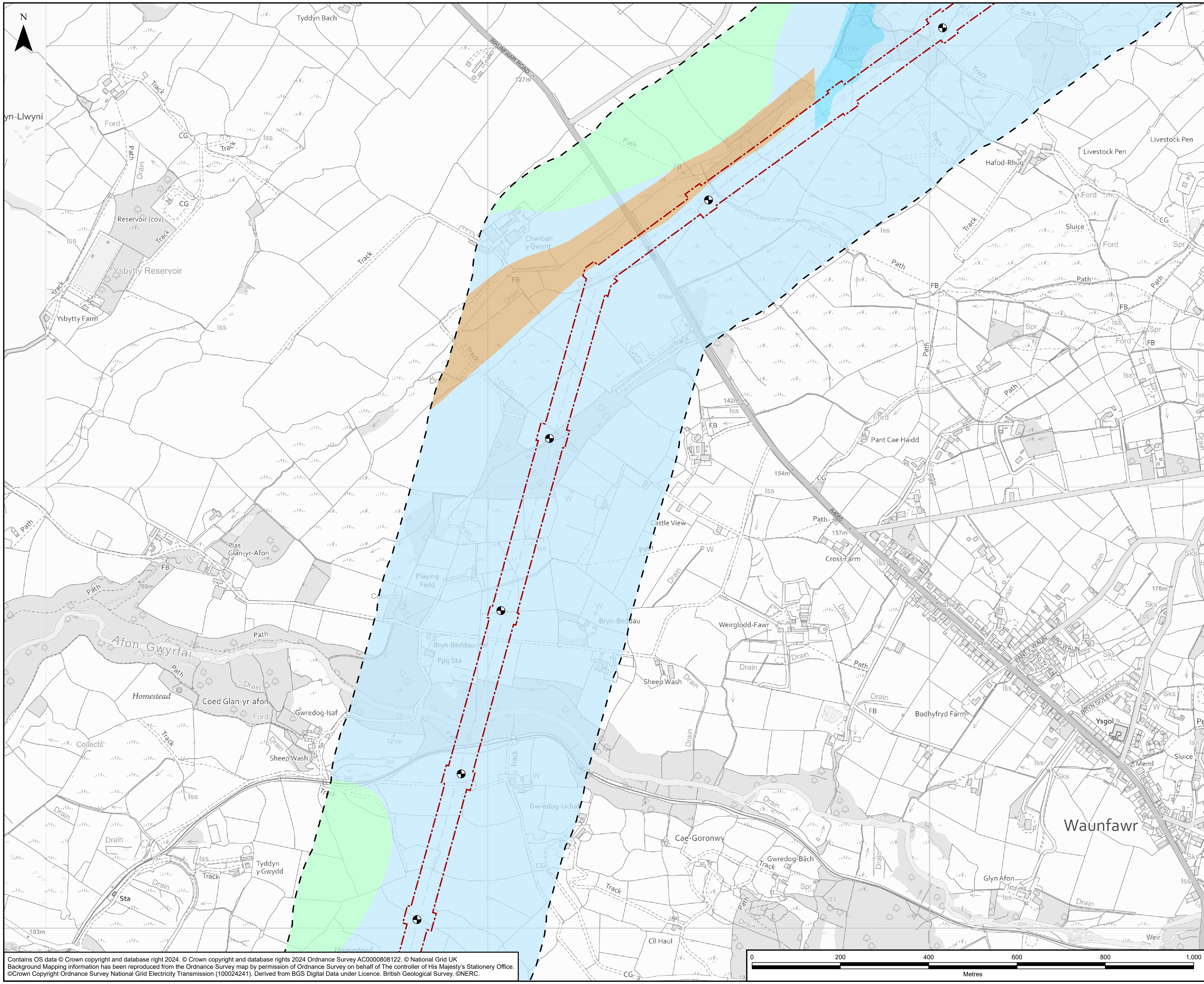

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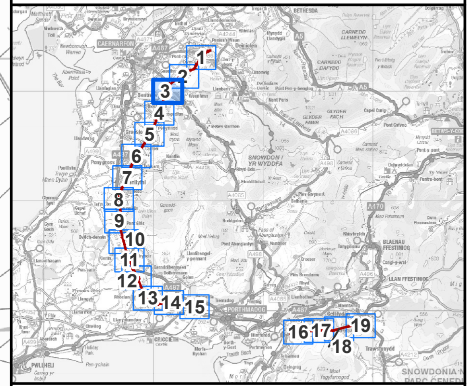
Metres

WIDER WORKS ROUTE LEGEND



Legend

- Indicative Wider Works Site Boundary
- 250m Buffer of Indicative Wider Works Site Boundary

BGS Borehole Depth

- Confidential

BGS Superficial Geology 50k

- Alluvium - Clay, Silt, Sand And Gravel
- Hummocky (Moundy) Glacial Deposits - Gravel, Sand, Silt And Clay
- Peat - Peat
- Till, Devensian - Diamicton

NOTES

1. Artificial, made ground, superficial geology, and BGS Borehole data supplied as part of the Groundsure data search request. The search area was 250m from the Works site boundary at the time of the search request.

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Scheme: PENTIR TO TRAWSFYNYDD REINFORCEMENT

Volume: VOLUME 8: APPENDICES WIDER WORKS

Document Title: FIGURE 6.A.1 MADE GROUND, SUPERFICIAL GEOLOGY AND HISTORIC BOREHOLE LOGS

Creator:	Date:	Checker:	Date:	Approver:	Date:
LP	27/08/2025	SB	27/08/2025	NL	27/08/2025

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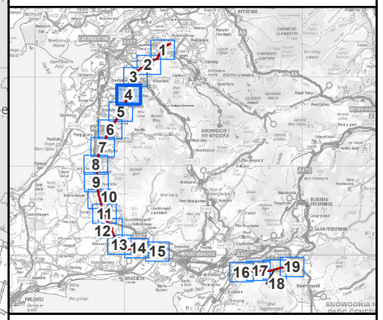
FIGURE	1:8,000	A3	3 OF 19	A

WIDER WORKS ROUTE LEGEND



Legend

- Indicative Wider Works Site Boundary
- 250m Buffer of Indicative Wider Works Site Boundary

BGS Borehole Depth

- Confidential

BGS Superficial Geology 50k

- Hummocky (Moundy) Glacial Deposits - Gravel, Sand, Silt And Clay
- Peat - Peat
- Till, Devensian - Diamicton

NOTES

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Scheme: PENTIR TO TRAWSFYNYDD REINFORCEMENT

Volume: VOLUME 8: APPENDICES
WIDER WORKS

Document Title: FIGURE 6.A.1
MADE GROUND, SUPERFICIAL GEOLOGY
AND HISTORIC BOREHOLE LOGS

Creator:	Date:	Checker:	Date:	Approver:	Date:
LP	27/08/2025	SB	27/08/2025	NL	27/08/2025

Document Type:	Scale:	Format:	Sheets:	Rev:
FIGURE	1:8,000	A3	4 OF 19	A

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RHOSGADFAN

Penyffridd

Cae Haidd Mawr

Carmel

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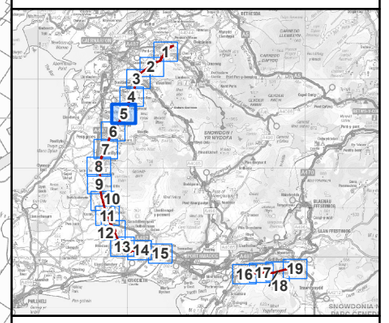

Legend

- Indicative Wider Works Site Boundary
- 250m Buffer of Indicative Wider Works Site Boundary

BGS Borehole Depth

- Confidential
- Less than 10m

BGS Superficial Geology 50k

- Glaciofluvial Sheet Deposits, Devensian - Sand And Gravel
- Hummocky (Moundy) Glacial Deposits - Gravel, Sand, Silt And Clay

NOTES

1. Artificial, made ground, superficial geology, and BGS Borehole data supplied as part of the Groundsure data search request. The search area was 250m from the Works site boundary at the time of the search request.

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Scheme: PENTIR TO TRAWSFYNYDD REINFORCEMENT

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WIDER WORKS

Document Title: FIGURE 6.A.1
MADE GROUND, SUPERFICIAL GEOLOGY
AND HISTORIC BOREHOLE LOGS

Creator:	Date:	Checker:	Date:	Approver:	Date:
LP	27/08/2025	SB	27/08/2025	NL	27/08/2025

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FIGURE	1:8,000	A3	5 OF 19	A

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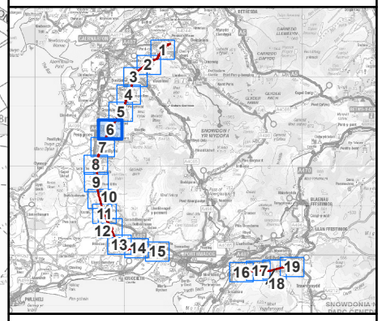

Legend

- Indicative Wider Works Site Boundary
- 250m Buffer of Indicative Wider Works Site Boundary

BGS Borehole Depth

- Confidential
- Greater than 30m

BGS Superficial Geology 50k

- Glaciofluvial Sheet Deposits, Devensian - Sand And Gravel
- Hummocky (Moundy) Glacial Deposits - Gravel, Sand, Silt And Clay

NOTES

1. Artificial, made ground, superficial geology, and BGS Borehole data supplied as part of the Groundsure data search request. The search area was 250m from the Works site boundary at the time of the search request.

Rev	Date	Description	GIS	Chk	App
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Scheme: PENTIR TO TRAWSFYNYDD REINFORCEMENT

Volume: VOLUME 8: APPENDICES WIDER WORKS

Document Title: FIGURE 6.A.1 MADE GROUND, SUPERFICIAL GEOLOGY AND HISTORIC BOREHOLE LOGS

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LP	27/08/2025	SB	27/08/2025	NL	27/08/2025

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FIGURE	1:8,000	A3	6 OF 19	A

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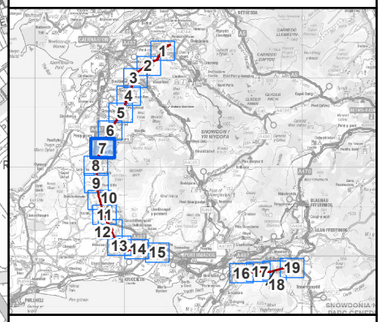
WIDER WORKS ROUTE LEGEND



Legend

- Indicative Wider Works Site Boundary
- 250m Buffer of Indicative Wider Works Site Boundary

BGS Borehole Depth

- Confidential
- Greater than 30m

BGS Superficial Geology 50k

- Glaciofluvial Fan Deposits, Devensian - Sand And Gravel
- Glaciofluvial Ice Contact Deposits, Devensian - Sand And Gravel
- Glaciofluvial Sheet Deposits, Devensian - Sand And Gravel
- Hummocky (Moundy) Glacial Deposits - Gravel, Sand, Silt And Clay
- Peat - Peat

NOTES

1. Artificial, made ground, superficial geology, and BGS Borehole data supplied as part of the Groundsure data search request. The search area was 250m from the Works site boundary at the time of the search request.

Rev	Date	Description	GIS	Chk	App
A	27/08/2025	Environmental Statement	LP	RR	NL

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Scheme: PENTIR TO TRAWSFYNYDD REINFORCEMENT

Volume: VOLUME 8: APPENDICES WIDER WORKS

Document Title: FIGURE 6.A.1 MADE GROUND, SUPERFICIAL GEOLOGY AND HISTORIC BOREHOLE LOGS

Creator:	Date:	Checker:	Date:	Approver:	Date:
LP	27/08/2025	SB	27/08/2025	NL	27/08/2025

Document Type:	Scale:	Format:	Sheets:	Rev:
FIGURE	1:8,000	A3	7 OF 19	A

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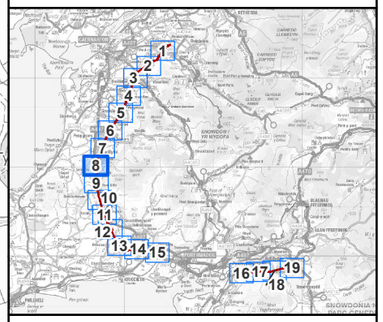

Legend

- Indicative Wider Works Site Boundary
- 250m Buffer of Indicative Wider Works Site Boundary

BGS Borehole Depth

- Confidential
- Less than 10m
- Greater than 30m

BGS Artificial and Made Ground 50k

- Worked Ground (Undivided)

BGS Superficial Geology 50k

- Glaciofluvial Fan Deposits, Devensian - Sand And Gravel
- Glaciofluvial Ice Contact Deposits, Devensian - Sand And Gravel
- Hummocky (Moundy) Glacial Deposits - Gravel, Sand, Silt And Clay
- Peat - Peat

NOTES

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Rev	Date	Description	GIS	Chk	App
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Scheme: PENTIR TO TRAWSFYNYDD REINFORCEMENT

Volume: VOLUME 8: APPENDICES WIDER WORKS

Document Title: FIGURE 6.A.1 MADE GROUND, SUPERFICIAL GEOLOGY AND HISTORIC BOREHOLE LOGS

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LP	27/08/2025	SB	27/08/2025	NL	27/08/2025

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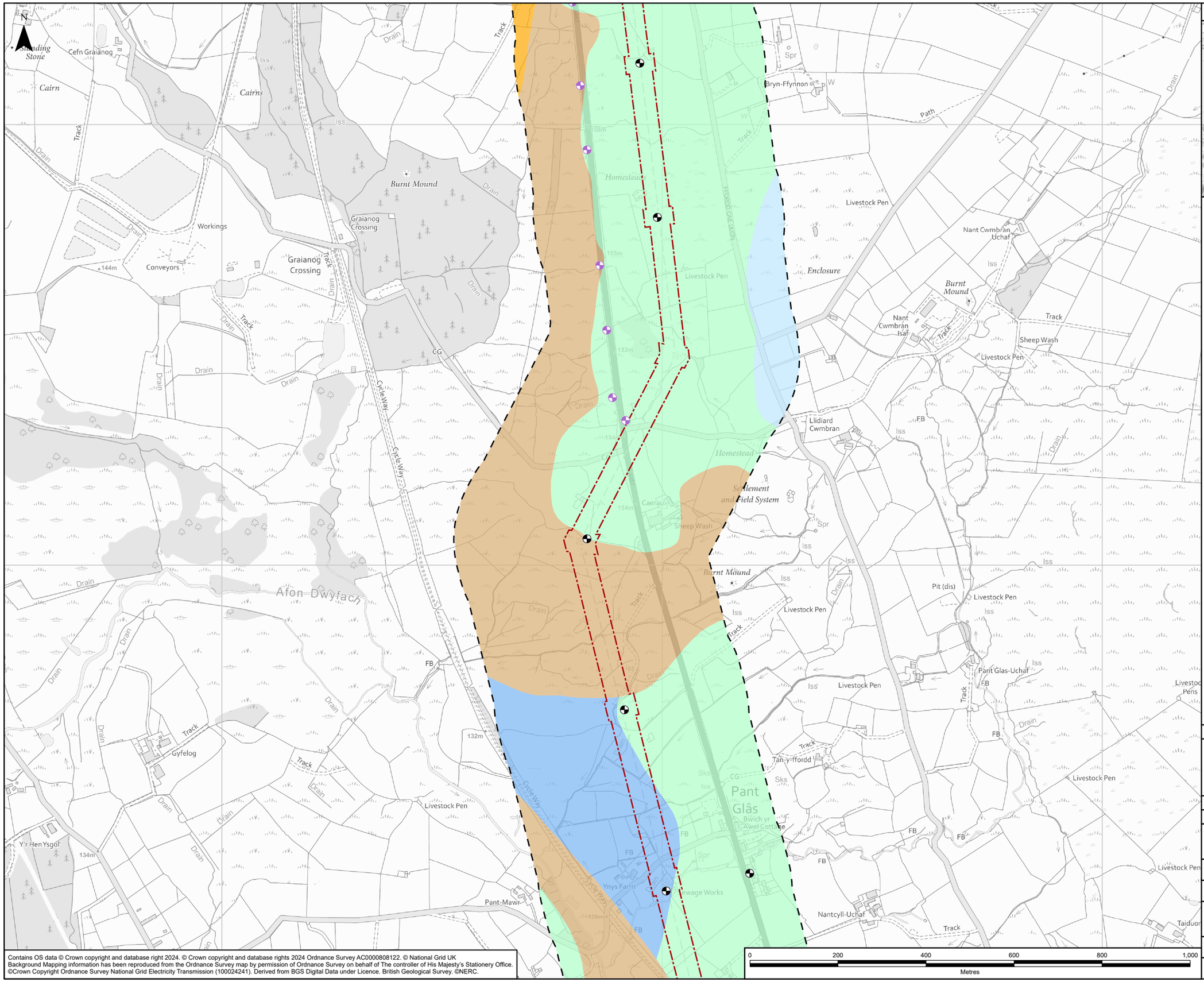

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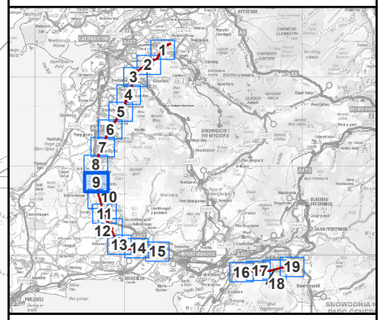

Legend

- Indicative Wider Works Site Boundary
- 250m Buffer of Indicative Wider Works Site Boundary

BGS Borehole Depth

- Confidential
- Less than 10m

BGS Superficial Geology 50k

- Glaciofluvial Ice Contact Deposits, Devensian - Sand And Gravel
- Glaciofluvial Sheet Deposits, Devensian - Sand And Gravel
- Hummocky (Moundy) Glacial Deposits - Gravel, Sand, Silt And Clay
- Peat - Peat
- Till, Devensian - Diamicton

NOTES

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Rev	Date	Description	GIS	Chk	App
A	27/08/2025	Environmental Statement	LP	RR	NL

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Scheme: PENTIR TO TRAWSFYNYDD REINFORCEMENT

Volume: VOLUME 8: APPENDICES
WIDER WORKS

Document Title: FIGURE 6.A.1
MADE GROUND, SUPERFICIAL GEOLOGY AND HISTORIC BOREHOLE LOGS

Creator:	Date:	Checker:	Date:	Approver:	Date:
LP	27/08/2025	SB	27/08/2025	NL	27/08/2025

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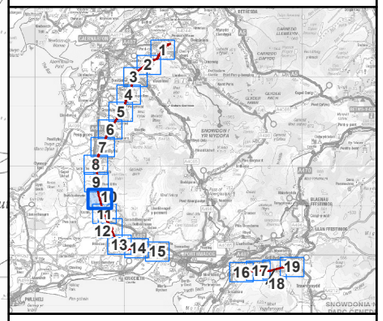

Legend

- Indicative Wider Works Site Boundary
- 250m Buffer of Indicative Wider Works Site Boundary

BGS Borehole Depth

- Confidential
- Less than 10m
- 10m - 30m

BGS Superficial Geology 50k

- Glaciofluvial Ice Contact Deposits, Devensian - Sand And Gravel
- Glaciofluvial Sheet Deposits, Devensian - Sand And Gravel
- Hummocky (Moundy) Glacial Deposits - Gravel, Sand, Silt And Clay
- Peat - Peat
- River Terrace Deposits (Undifferentiated) - Gravel, Sand And Silt
- Till, Devensian - Diamicton

NOTES

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Scheme: PENTIR TO TRAWSFYNYDD REINFORCEMENT

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WIDER WORKS

Document Title: FIGURE 6.A.1
MADE GROUND, SUPERFICIAL GEOLOGY
AND HISTORIC BOREHOLE LOGS

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Document Type:	Scale:	Format:	Sheets:	Rev:
FIGURE	1:8,000	A3	10 OF 19	A

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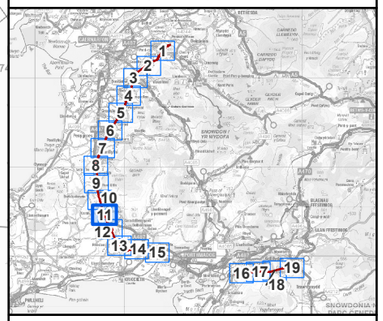
WIDER WORKS ROUTE LEGEND



Legend

- Indicative Wider Works Site Boundary
- 250m Buffer of Indicative Wider Works Site Boundary

BGS Borehole Depth

- Confidential
- Less than 10m
- Greater than 30m

BGS Artificial and Made Ground 50k

- Worked Ground (Undivided)

BGS Superficial Geology 50k

- Alluvium - Gravel, Sand, Silt And Clay
- Glaciofluvial Sheet Deposits, Devensian - Sand And Gravel
- Hummocky (Moundy) Glacial Deposits - Gravel, Sand, Silt And Clay
- Peat - Peat
- River Terrace Deposits (Undifferentiated) - Gravel, Sand And Silt
- Till, Devensian - Diamicton

NOTES

1. Artificial, made ground, superficial geology, and BGS Borehole data supplied as part of the Groundsure data search request. The search area was 250m from the Works site boundary at the time of the search request.

Rev	Date	Description	GIS	Chk	App
A	27/08/2025	Environmental Statement	LP	RR	NL

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Scheme: PENTIR TO TRAWSFYNYDD REINFORCEMENT

Volume: VOLUME 8: APPENDICES WIDER WORKS

Document Title: FIGURE 6.A.1 MADE GROUND, SUPERFICIAL GEOLOGY AND HISTORIC BOREHOLE LOGS

Creator:	Date:	Checker:	Date:	Approver:	Date:
LP	27/08/2025	SB	27/08/2025	NL	27/08/2025

Document Type:	Scale:	Format:	Sheets:	Rev:
FIGURE	1:8,000	A3	11 OF 19	A

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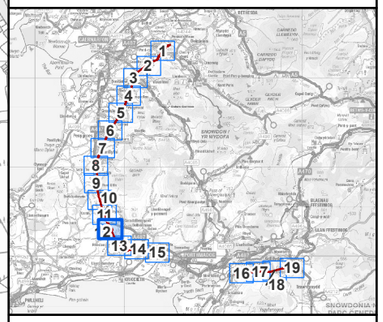

Legend

- Indicative Wider Works Site Boundary
- 250m Buffer of Indicative Wider Works Site Boundary

BGS Borehole Depth

- Confidential
- 10m - 30m

BGS Superficial Geology 50k

- Alluvium - Gravel, Sand, Silt And Clay
- Glaciofluvial Sheet Deposits, Devensian - Sand And Gravel
- Hummocky (Moundy) Glacial Deposits - Gravel, Sand, Silt And Clay
- Peat - Peat
- River Terrace Deposits (Undifferentiated) - Gravel, Sand And Silt
- Till, Devensian - Diamicton

NOTES

1. Artificial, made ground, superficial geology, and BGS Borehole data supplied as part of the Groundsure data search request. The search area was 250m from the Works site boundary at the time of the search request.

Rev	Date	Description	GIS	Chk	App
A	27/08/2025	Environmental Statement	LP	RR	NL

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Scheme: PENTIR TO TRAWSFYNYDD REINFORCEMENT

Volume: VOLUME 8: APPENDICES
WIDER WORKS

Document Title: FIGURE 6.A.1
MADE GROUND, SUPERFICIAL GEOLOGY
AND HISTORIC BOREHOLE LOGS

Creator:	Date:	Checker:	Date:	Approver:	Date:
LP	27/08/2025	SB	27/08/2025	NL	27/08/2025

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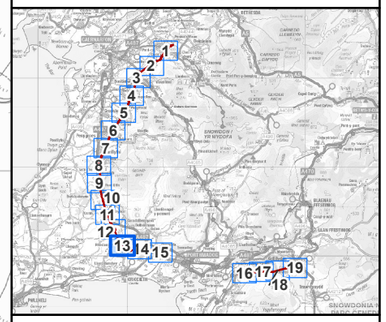

Legend

- Indicative Wider Works Site Boundary
- 250m Buffer of Indicative Wider Works Site Boundary

BGS Borehole Depth

- Confidential
- Less than 10m

BGS Superficial Geology 50k

- Alluvium - Gravel, Sand, Silt And Clay
- Glaciofluvial Sheet Deposits, Devensian - Sand And Gravel
- Peat - Peat
- River Terrace Deposits (Undifferentiated) - Gravel, Sand And Silt
- Till, Devensian - Diamicton

NOTES

1. Artificial, made ground, superficial geology, and BGS Borehole data supplied as part of the Groundsure data search request. The search area was 250m from the Works site boundary at the time of the search request.

Rev	Date	Description	GIS	Chk	App
A	27/08/2025	Environmental Statement	LP	RR	NL

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Scheme: PENTIR TO TRAWSFYNYDD REINFORCEMENT

Volume: VOLUME 8: APPENDICES WIDER WORKS

Document Title: FIGURE 6.A.1 MADE GROUND, SUPERFICIAL GEOLOGY AND HISTORIC BOREHOLE LOGS

Creator:	Date:	Checker:	Date:	Approver:	Date:
LP	27/08/2025	SB	27/08/2025	NL	27/08/2025

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FIGURE	1:8,000	A3	13 OF 19	A

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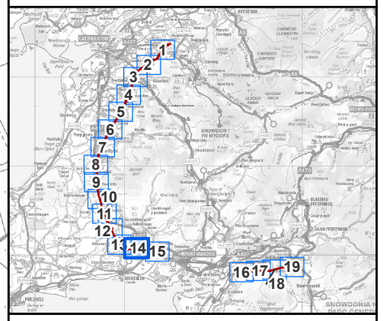

Legend

Indicative Wider Works Site Boundary

250m Buffer of Indicative Wider Works Site Boundary

BGS Borehole Depth

Confidential

BGS Superficial Geology 50k

Head - Clay, Silt, Sand And Gravel

Head - Diamicton, Gravel, Sand And Silt

Peat - Peat

Till, Devensian - Diamicton

NOTES

1. Artificial, made ground, superficial geology, and BGS Borehole data supplied as part of the Groundsure data search request. The search area was 250m from the Works site boundary at the time of the search request.

Rev	Date	Description	GIS	Chk	App
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Scheme: PENTIR TO TRAWSFYNYDD REINFORCEMENT

Volume: VOLUME 8: APPENDICES
WIDER WORKS

Document Title: FIGURE 6.A.1
MADE GROUND, SUPERFICIAL GEOLOGY
AND HISTORIC BOREHOLE LOGS

Creator:	Date:	Checker:	Date:	Approver:	Date:
LP	27/08/2025	SB	27/08/2025	NL	27/08/2025

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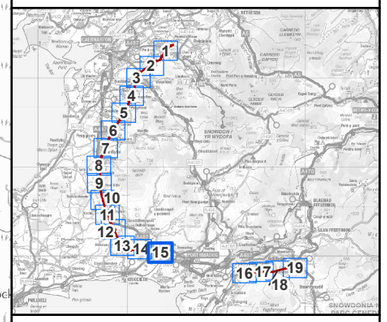

Legend

- Indicative Wider Works Site Boundary
- 250m Buffer of Indicative Wider Works Site Boundary

BGS Borehole Depth

- Confidential

BGS Superficial Geology 50k

- Alluvium - Clay, Silt, Sand And Gravel
- Head - Clay, Silt, Sand And Gravel
- Peat - Peat
- Till, Devensian - Diamicton

NOTES

1. Artificial, made ground, superficial geology, and BGS Borehole data supplied as part of the Groundsure data search request. The search area was 250m from the Works site boundary at the time of the search request.

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Scheme: PENTIR TO TRAWSFYNYDD REINFORCEMENT

Volume: VOLUME 8: APPENDICES WIDER WORKS

Document Title: FIGURE 6.A.1 MADE GROUND, SUPERFICIAL GEOLOGY AND HISTORIC BOREHOLE LOGS

Creator:	Date:	Checker:	Date:	Approver:	Date:
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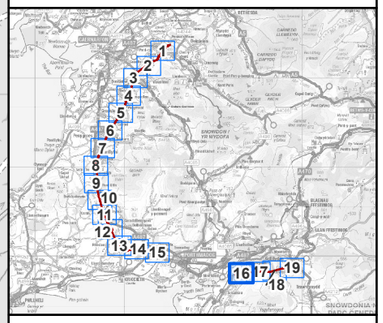

Legend

- Indicative Wider Works Site Boundary
- 250m Buffer of Indicative Wider Works Site Boundary

BGS Superficial Geology 50k

- Peat - Peat
- Talus - Rock Fragments, Angular, Undifferentiated Source Rock
- Tidal Flat Deposits - Clay, Silt And Sand
- Till, Devensian - Diamicton

NOTES

1. Artificial, made ground, superficial geology, and BGS Borehole data supplied as part of the Groundsure data search request. The search area was 250m from the Works site boundary at the time of the search request.

Rev	Date	Description	GIS	Chk	App
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Scheme: PENTIR TO TRAWSFYNYDD REINFORCEMENT

Volume: VOLUME 8: APPENDICES
WIDER WORKS

Document Title: FIGURE 6.A.1
MADE GROUND, SUPERFICIAL GEOLOGY
AND HISTORIC BOREHOLE LOGS

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FIGURE	1:8,000	A3	16 OF 19	A

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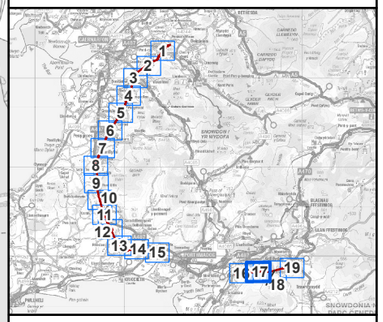

Legend

- Indicative Wider Works Site Boundary
- 250m Buffer of Indicative Wider Works Site Boundary

BGS Borehole Depth

- Less than 10m

BGS Superficial Geology 50k

- Peat - Peat
- Talus - Rock Fragments, Angular, Undifferentiated Source Rock
- Till, Devensian - Diamicton

NOTES

1. Artificial, made ground, superficial geology, and BGS Borehole data supplied as part of the Groundsure data search request. The search area was 250m from the Works site boundary at the time of the search request.

Rev	Date	Description	GIS	Chk	App
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Scheme: PENTIR TO TRAWSFYNYDD REINFORCEMENT

Volume: VOLUME 8: APPENDICES
WIDER WORKS

Document Title: FIGURE 6.A.1
MADE GROUND, SUPERFICIAL GEOLOGY AND HISTORIC BOREHOLE LOGS

Creator:	Date:	Checker:	Date:	Approver:	Date:
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FIGURE	1:8,000	A3	17 OF 19	A

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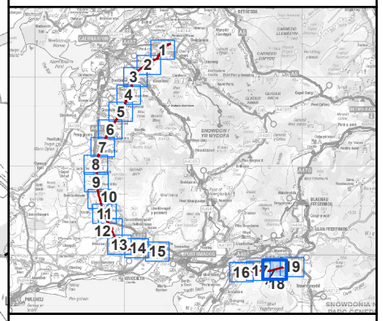

Legend

- Indicative Wider Works Site Boundary
- 250m Buffer of Indicative Wider Works Site Boundary

BGS Borehole Depth

- Less than 10m

BGS Superficial Geology 50k

- Peat - Peat
- Till, Devensian - Diamicton

NOTES

1. Artificial, made ground, superficial geology, and BGS Borehole data supplied as part of the Groundsure data search request. The search area was 250m from the Works site boundary at the time of the search request.

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Scheme: PENTIR TO TRAWSFYNYDD REINFORCEMENT

Volume: VOLUME 8: APPENDICES
WIDER WORKS

Document Title: FIGURE 6.A.1
MADE GROUND, SUPERFICIAL GEOLOGY
AND HISTORIC BOREHOLE LOGS

Creator:	Date:	Checker:	Date:	Approver:	Date:
LP	27/08/2025	SB	27/08/2025	NL	27/08/2025

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FIGURE	1:8,000	A3	18 OF 19	A

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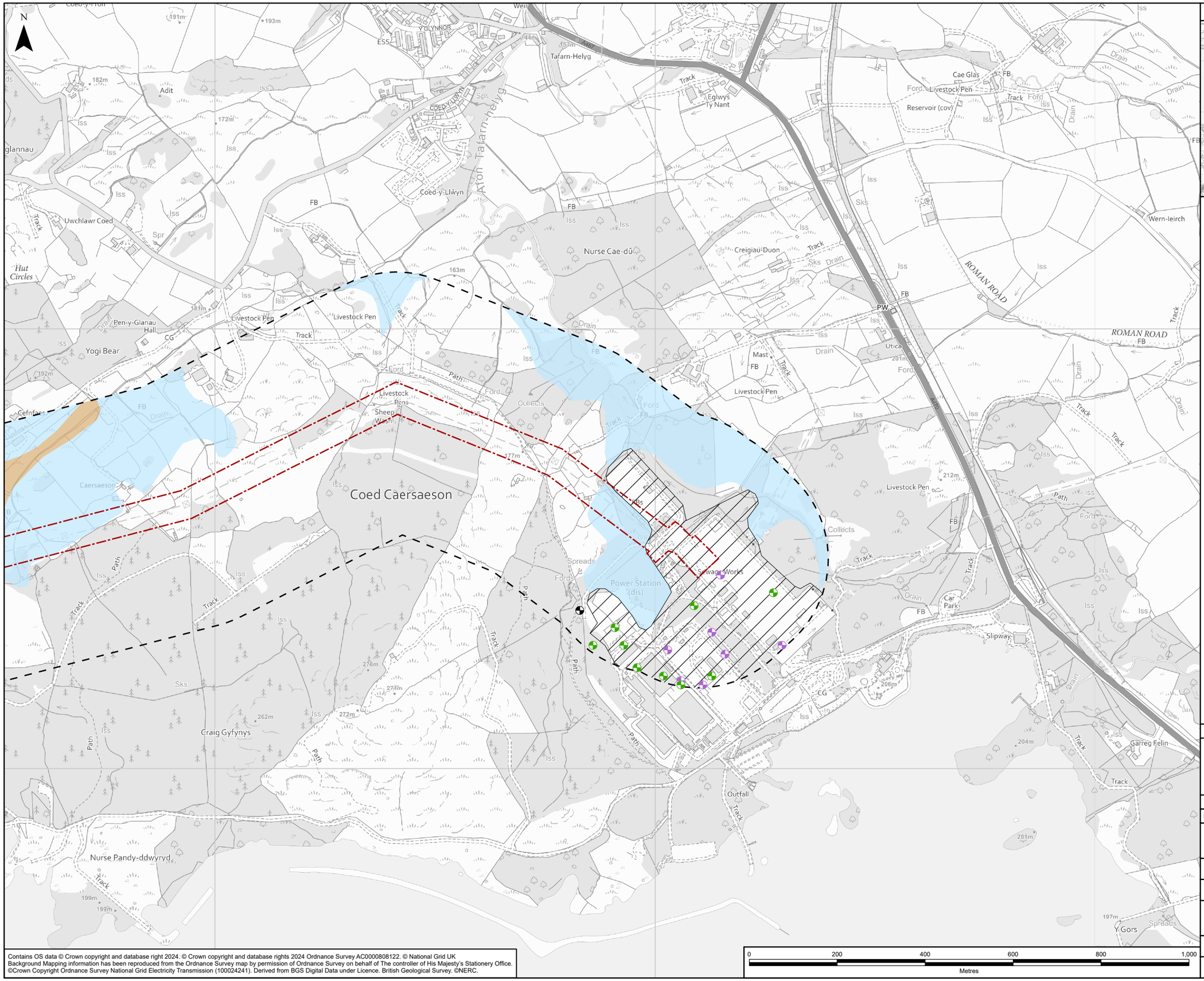

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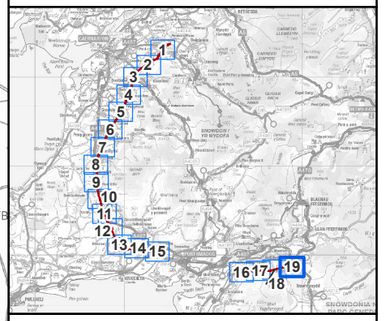

Legend

- Indicative Wider Works Site Boundary
- 250m Buffer of Indicative Wider Works Site Boundary

BGS Borehole Depth

- Confidential
- Less than 10m
- 10m - 30m

BGS Artificial and Made Ground 50k

- Made Ground (Undivided)

BGS Superficial Geology 50k

- Peat - Peat
- Till, Devensian - Diamicton

NOTES

1. Artificial, made ground, superficial geology, and BGS Borehole data supplied as part of the Groundsure data search request. The search area was 250m from the Works site boundary at the time of the search request.

Rev	Date	Description	GIS	Chk	App
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Scheme: PENTIR TO TRAWSFYNYDD REINFORCEMENT

Volume: VOLUME 8: APPENDICES WIDER WORKS

Document Title: FIGURE 6.A.1 MADE GROUND, SUPERFICIAL GEOLOGY AND HISTORIC BOREHOLE LOGS

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FIGURE	1:8,000	A3	19 OF 19	A

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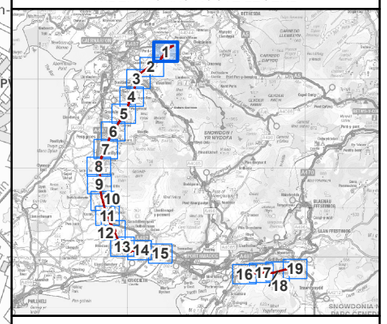

Legend

- Indicative Wider Works Site Boundary
- 250m Buffer of Indicative Wider Works Site Boundary

BGS Bedrock, Faults and Linear Features 50k

- Fault, Inferred, Displacement Unknown

BGS Bedrock Geology 50k

- Fachwen Formation - Sandstone And Conglomerate, Interbedded
- Fachwen Formation - Siltstone And Limestone, Interbedded
- Padarn Tuff Formation - Tuff, Felsic

NOTES

1. Bedrock geology data supplied as part of the Groundsure data search request. The search area was 250m from the Works site boundary at the time of the search request.

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A	18/08/2025	Environmental Statement	LP	SB	NL

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Volume: VOLUME 8: APPENDICES WIDER WORKS

Document Title: FIGURE 6.A.2 BEDROCK GEOLOGY

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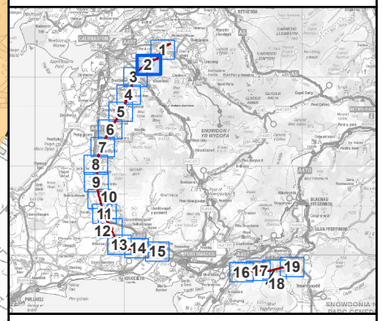

Legend

- Indicative Wider Works Site Boundary
- 250m Buffer of Indicative Wider Works Site Boundary

BGS Bedrock, Faults and Linear Features 50k

- Fault, Inferred, Displacement Unknown

BGS Bedrock Geology 50k

- Fachwen Formation - Sandstone And Siltstone, Interbedded
- Fachwen Formation - Siltstone And Limestone, Interbedded
- Padarn Tuff Formation - Tuff, Felsic

NOTES

1. Bedrock geology data supplied as part of the Groundsure data search request. The search area was 250m from the Works site boundary at the time of the search request.

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Volume: VOLUME 8: APPENDICES WIDER WORKS

Document Title: FIGURE 6.A.2 BEDROCK GEOLOGY

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LP	18/08/2025	SB	18/08/2025	NL	18/08/2025

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FIGURE	1:8,000	A3	2 OF 19	A

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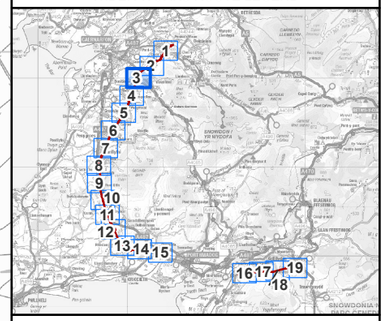

Legend

- Indicative Wider Works Site Boundary
- 250m Buffer of Indicative Wider Works Site Boundary

BGS Bedrock, Faults and Linear Features 50k

- Fault, Inferred, Displacement Unknown

BGS Bedrock Geology 50k

- Fachwen Formation - Sandstone And Siltstone, Interbedded
- Fachwen Formation - Siltstone And Limestone, Interbedded
- Padarn Tuff Formation - Tuff, Felsic

NOTES

1. Bedrock geology data supplied as part of the Groundsure data search request. The search area was 250m from the Works site boundary at the time of the search request.

Rev	Date	Description	GIS	Chk	App
A	18/08/2025	Environmental Statement	LP	SB	NL

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Scheme: PENTIR TO TRAWSFYNYDD REINFORCEMENT

Volume: VOLUME 8: APPENDICES
WIDER WORKS

Document Title: FIGURE 6.A.2
BEDROCK GEOLOGY

Creator:	Date:	Checker:	Date:	Approver:	Date:
LP	18/08/2025	SB	18/08/2025	NL	18/08/2025

Document Type:	Scale:	Format:	Sheets:	Rev:
FIGURE	1:8,000	A3	3 OF 19	A

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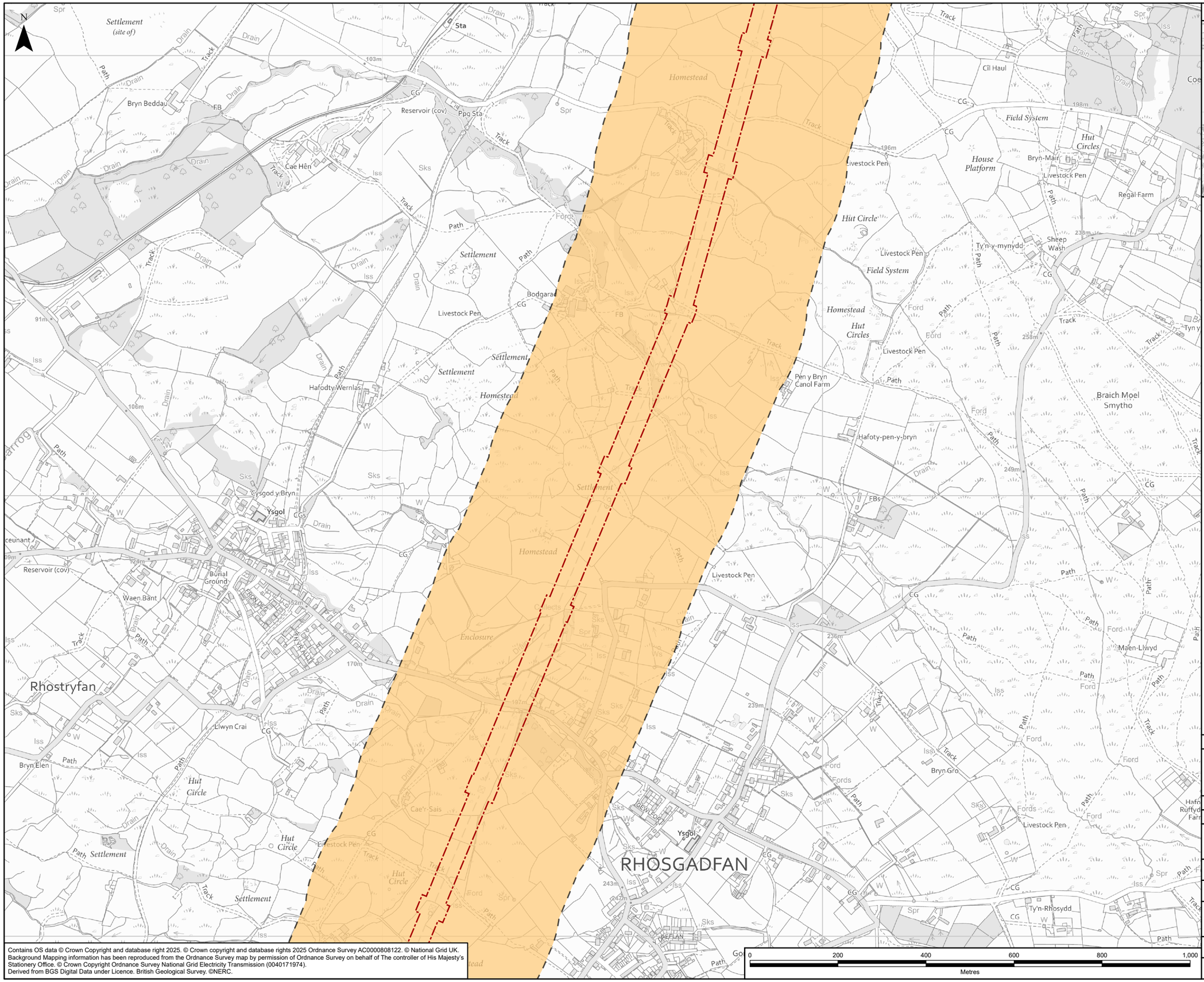

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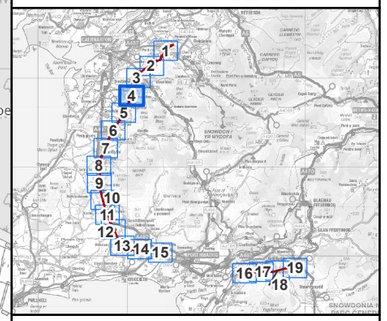

Legend

- Indicative Wider Works Site Boundary
- 250m Buffer of Indicative Wider Works Site Boundary

BGS Bedrock Geology 50k

- Padarn Tuff Formation - Tuff, Felsic

NOTES

1. Bedrock geology data supplied as part of the Groundsure data search request. The search area was 250m from the Works site boundary at the time of the search request.

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A	18/08/2025	Environmental Statement	LP	SB	NL

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Scheme: PENTIR TO TRAWSFYNYDD REINFORCEMENT

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Document Title: FIGURE 6.A.2 BEDROCK GEOLOGY

Creator:	Date:	Checker:	Date:	Approver:	Date:
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FIGURE	1:8,000	A3	4 OF 19	A

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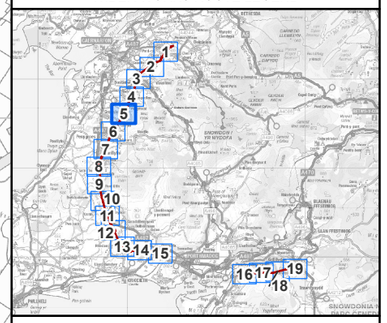

Legend

- Indicative Wider Works Site Boundary
- 250m Buffer of Indicative Wider Works Site Boundary

BGS Bedrock Geology 50k

- Padarn Tuff Formation - Tuff, Felsic

NOTES

1. Bedrock geology data supplied as part of the Groundsure data search request. The search area was 250m from the Works site boundary at the time of the search request.

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WIDER WORKS

Document Title: FIGURE 6.A.2
BEDROCK GEOLOGY

Creator:	Date:	Checker:	Date:	Approver:	Date:
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Document Type:	Scale:	Format:	Sheets:	Rev:
FIGURE	1:8,000	A3	5 OF 19	A

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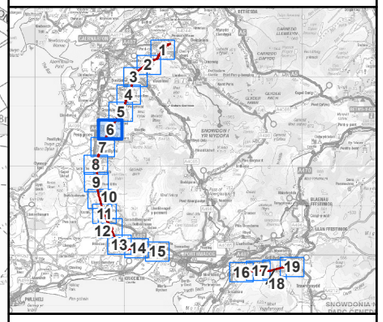

Legend

- Indicative Wider Works Site Boundary
- 250m Buffer of Indicative Wider Works Site Boundary

BGS Bedrock Geology 50k

- Padarn Tuff Formation - Tuff, Felsic
- Unnamed Igneous Intrusion, Ordovician - Microgabbro

NOTES

1. Bedrock geology data supplied as part of the Groundsure data search request. The search area was 250m from the Works site boundary at the time of the search request.

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Scheme: PENTIR TO TRAWSFYNYDD REINFORCEMENT

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FIGURE	1:8,000	A3	6 OF 19	A

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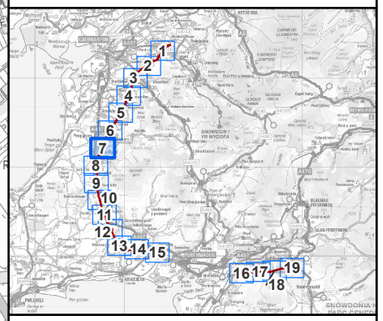

Legend

- Indicative Wider Works Site Boundary
- 250m Buffer of Indicative Wider Works Site Boundary

BGS Bedrock, Faults and Linear Features 50k

- Fault, Inferred, Displacement Unknown

BGS Bedrock Geology 50k

- Fachwen Formation - Sandstone And Conglomerate, Interbedded
- Llanberis Slates Formation - Sandstone, Siltstone And Mudstone
- Padarn Tuff Formation - Tuff, Felsic

NOTES

1. Bedrock geology data supplied as part of the Groundsure data search request. The search area was 250m from the Works site boundary at the time of the search request.

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Document Type:	Scale:	Format:	Sheets:	Rev:
FIGURE	1:8,000	A3	7 OF 19	A

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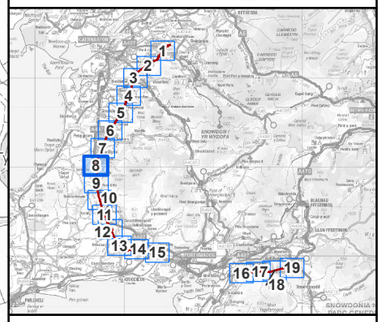

Legend

- Indicative Wider Works Site Boundary
- 250m Buffer of Indicative Wider Works Site Boundary

BGS Bedrock, Faults and Linear Features 50k

- Fault, Inferred, Displacement Unknown

BGS Bedrock Geology 50k

- Bronllwyd Grit Formation - Sandstone
- Llanberis Slates Formation - Sandstone, Siltstone And Mudstone
- Nant Ffrancon Subgroup - Siltstone

NOTES

1. Bedrock geology data supplied as part of the Groundsure data search request. The search area was 250m from the Works site boundary at the time of the search request.

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Document Title: FIGURE 6.A.2 BEDROCK GEOLOGY

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Document Type:	Scale:	Format:	Sheets:	Rev:
FIGURE	1:8,000	A3	8 OF 19	A

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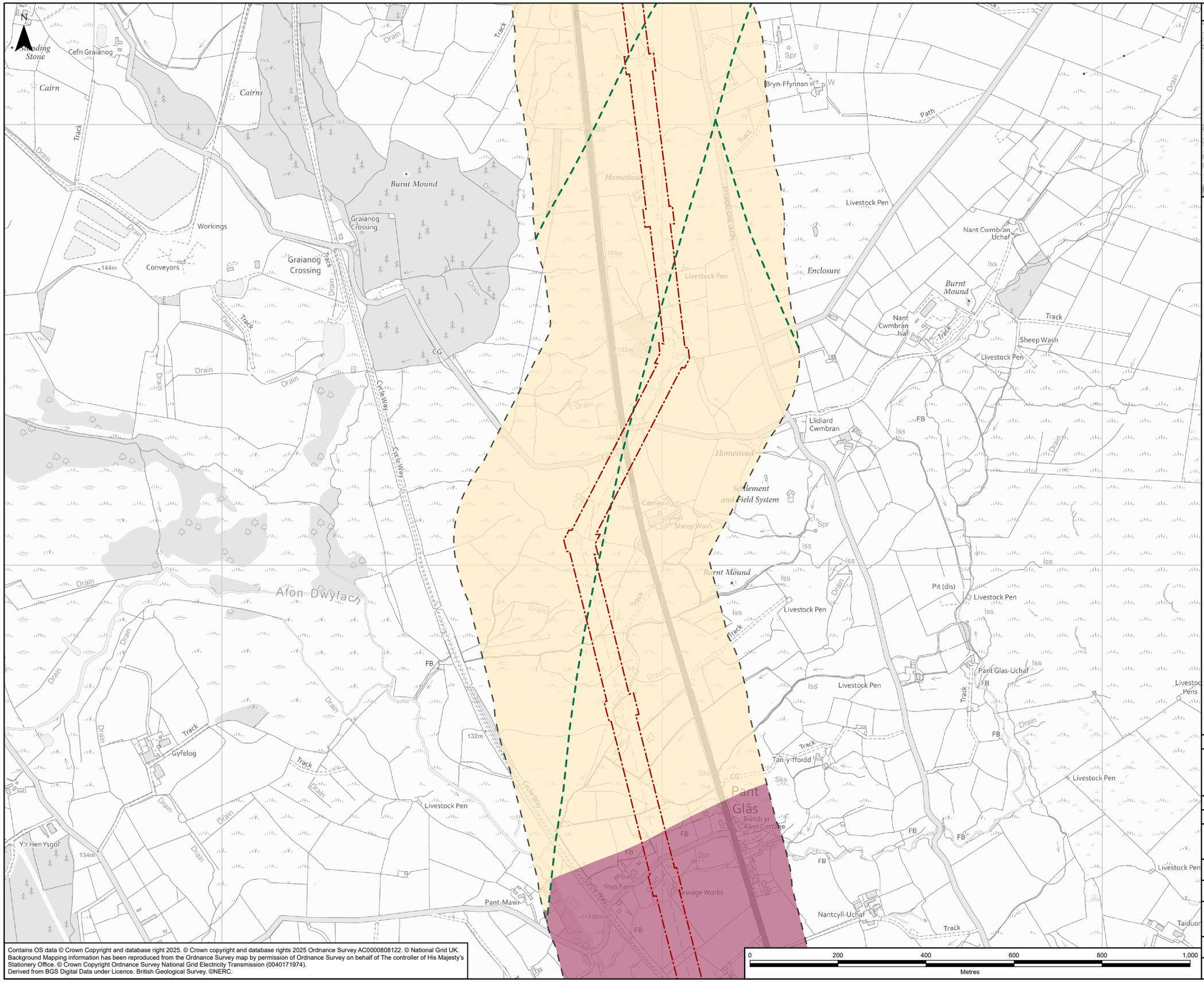

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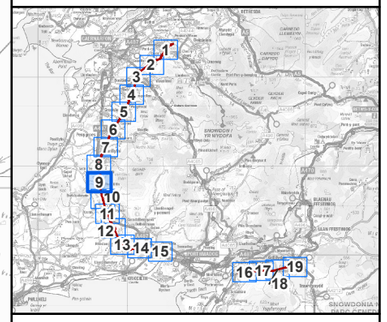

Legend

- Indicative Wider Works Site Boundary
- 250m Buffer of Indicative Wider Works Site Boundary

BGS Bedrock, Faults and Linear Features 50k

- Fault, Inferred, Displacement Unknown

BGS Bedrock Geology 50k

- Llanbedrog Volcanic Group - Tuff And Sandstone
- Nant Ffrancon Subgroup - Siltstone

NOTES

1. Bedrock geology data supplied as part of the Groundsure data search request. The search area was 250m from the Works site boundary at the time of the search request.

Rev	Date	Description	GIS	Chk	App
A	18/08/2025	Environmental Statement	LP	SB	NL

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Scheme: PENTIR TO TRAWSFYNYDD REINFORCEMENT

Volume: VOLUME 8: APPENDICES WIDER WORKS

Document Title: FIGURE 6.A.2 BEDROCK GEOLOGY

Creator:	Date:	Checker:	Date:	Approver:	Date:
LP	18/08/2025	SB	18/08/2025	NL	18/08/2025

Document Type:	Scale:	Format:	Sheets:	Rev:
FIGURE	1:8,000	A3	9 OF 19	A

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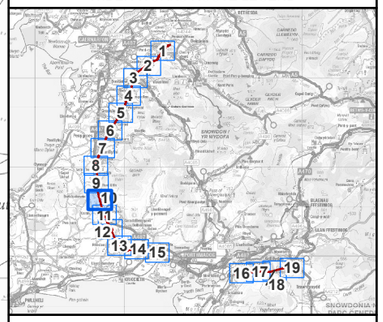

Legend

- Indicative Wider Works Site Boundary
- 250m Buffer of Indicative Wider Works Site Boundary

BGS Bedrock, Faults and Linear Features 50k

- Fault, Inferred, Displacement Unknown

BGS Bedrock Geology 50k

- Dwyfach Formation - Mudstone, Siltstone And Sandstone
- Llanbedrog Volcanic Group - Tuff And Sandstone
- Nant Ffrancon Subgroup - Siltstone

NOTES

1. Bedrock geology data supplied as part of the Groundsure data search request. The search area was 250m from the Works site boundary at the time of the search request.

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A	18/08/2025	Environmental Statement	LP	SB	NL

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WIDER WORKS

Document Title: FIGURE 6.A.2
BEDROCK GEOLOGY

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LP	18/08/2025	SB	18/08/2025	NL	18/08/2025

Document Type:	Scale:	Format:	Sheets:	Rev:
FIGURE	1:8,000	A3	10 OF 19	A

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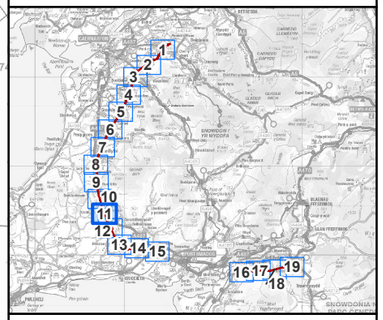

Legend

- Indicative Wider Works Site Boundary
- 250m Buffer of Indicative Wider Works Site Boundary

BGS Bedrock Geology 50k

- Cwm Eigiau Formation - Siltstone
- Dwyfach Formation - Mudstone, Siltstone And Sandstone
- Dwyfach Formation - Sandstone
- Llanbedrog Volcanic Group - Tuff And Sandstone

NOTES

1. Bedrock geology data supplied as part of the Groundsure data search request. The search area was 250m from the Works site boundary at the time of the search request.

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BEDROCK GEOLOGY

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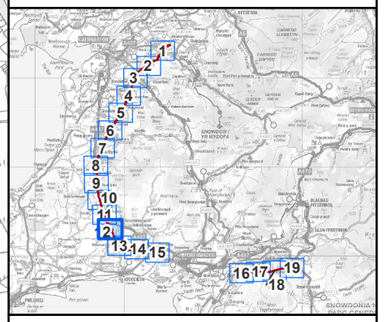

Legend

- Indicative Wider Works Site Boundary
- 250m Buffer of Indicative Wider Works Site Boundary

BGS Bedrock, Faults and Linear Features 50k

- Fault, Inferred, Displacement Unknown

BGS Bedrock Geology 50k

- Cwm Eigiau Formation - Siltstone
- Dwyfach Formation - Mudstone, Siltstone And Sandstone
- Dwyfach Formation - Sandstone
- Llanbedrog Volcanic Group - Tuff And Sandstone
- Nant Ffrancon Subgroup - Siltstone

NOTES

1. Bedrock geology data supplied as part of the Groundsure data search request. The search area was 250m from the Works site boundary at the time of the search request.

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BEDROCK GEOLOGY

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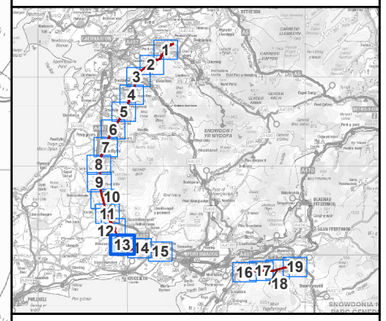

Legend

- Indicative Wider Works Site Boundary
- 250m Buffer of Indicative Wider Works Site Boundary

BGS Bedrock, Faults and Linear Features 50k

- Fault, Inferred, Displacement Unknown

BGS Bedrock Geology 50k

- Dwyfach Formation - Mudstone, Siltstone And Sandstone
- Llanbedrog Volcanic Group - Tuff And Sandstone
- Nant Ffrancon Subgroup - Siltstone
- Pitts Head Tuff Formation - Tuff, Felsic

NOTES

1. Bedrock geology data supplied as part of the Groundsure data search request. The search area was 250m from the Works site boundary at the time of the search request.

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Scheme: PENTIR TO TRAWSFYNYDD REINFORCEMENT

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Document Title: FIGURE 6.A.2 BEDROCK GEOLOGY

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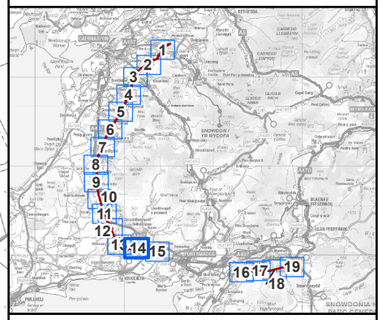

Legend

- Indicative Wider Works Site Boundary
- 250m Buffer of Indicative Wider Works Site Boundary

BGS Bedrock, Faults and Linear Features 50k

- Fault, Inferred, Displacement Unknown

BGS Bedrock Geology 50k

- Allt Lwyd Formation - Sandstone And Siltstone, Interbedded
- Dol-Cyn-Afon Formation - Mudstone And Siltstone
- Dol-Cyn-Afon Formation - Sandstone
- Dolgellau Formation - Mudstone And Siltstone
- Ffestiniog Flags Formation - Mudstone, Siltstone And Sandstone
- Nant Ffrancon Subgroup - Siltstone
- Pitts Head Tuff Formation - Tuff, Felsic

NOTES

1. Bedrock geology data supplied as part of the Groundsure data search request. The search area was 250m from the Works site boundary at the time of the search request.

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WIDER WORKS

Document Title: FIGURE 6.A.2
BEDROCK GEOLOGY

Creator:	Date:	Checker:	Date:	Approver:	Date:
LP	18/08/2025	SB	18/08/2025	NL	18/08/2025

Document Type:	Scale:	Format:	Sheets:	Rev:
FIGURE	1:8,000	A3	14 OF 19	A

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Metres

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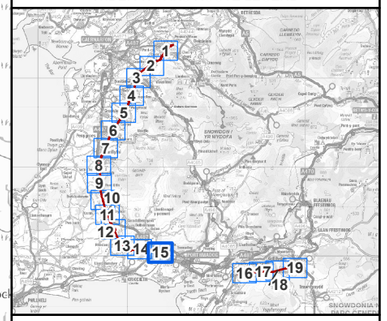
WIDER WORKS ROUTE LEGEND



Legend

- Indicative Wider Works Site Boundary
- 250m Buffer of Indicative Wider Works Site Boundary

BGS Bedrock, Faults and Linear Features 50k

- Axial Plane Trace of Major Anticline
- Fault, Inferred, Displacement Unknown

BGS Bedrock Geology 50k

- Dol-Cyn-Afon Formation - Mudstone And Siltstone
- Dolgellau Formation - Mudstone And Siltstone
- Ffestiniog Flags Formation - Mudstone, Siltstone And Sandstone

NOTES

1. Bedrock geology data supplied as part of the Groundsure data search request. The search area was 250m from the Works site boundary at the time of the search request.

Rev	Date	Description	GIS	Chk	App
A	18/08/2025	Environmental Statement	LP	SB	NL

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Scheme: PENTIR TO TRAWSFYNYDD REINFORCEMENT

Volume: VOLUME 8: APPENDICES
WIDER WORKS

Document Title: FIGURE 6.A.2
BEDROCK GEOLOGY

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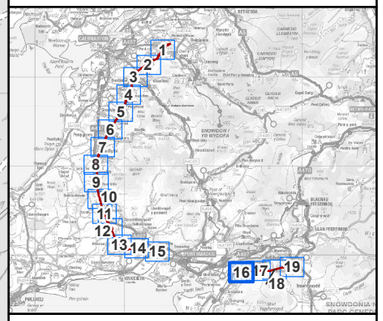

Legend

- Indicative Wider Works Site Boundary
- 250m Buffer of Indicative Wider Works Site Boundary

BGS Bedrock, Faults and Linear Features 50k

- Fault, Inferred, Displacement Unknown

BGS Bedrock Geology 50k

- Ffestiniog Flags Formation - Mudstone, Siltstone And Sandstone
- Maentwrog Formation - Mudstone, Siltstone And Sandstone
- Unnamed Igneous Intrusion, Ordovician - Microgabbro

NOTES

1. Bedrock geology data supplied as part of the Groundsure data search request. The search area was 250m from the Works site boundary at the time of the search request.

Rev	Date	Description	GIS	Chk	App
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Scheme: PENTIR TO TRAWSFYNYDD REINFORCEMENT

Volume: VOLUME 8: APPENDICES
WIDER WORKS

Document Title: FIGURE 6.A.2
BEDROCK GEOLOGY

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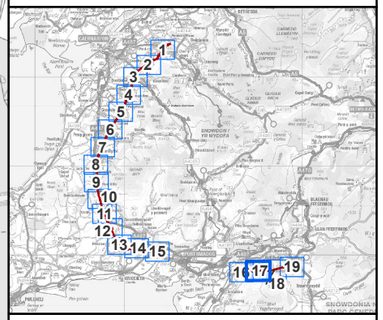

Legend

- Indicative Wider Works Site Boundary
- 250m Buffer of Indicative Wider Works Site Boundary

BGS Bedrock, Faults and Linear Features 50k

- Fault, Inferred, Displacement Unknown

BGS Bedrock Geology 50k

- Clogau Formation - Mudstone
- Gamlan Formation - Mudstone And Siltstone
- Gamlan Formation - Sandstone
- Maentwrog Formation - Mudstone, Siltstone And Sandstone
- Unnamed Igneous Intrusion, Ordovician - Diorite And Gabbro
- Unnamed Igneous Intrusion, Ordovician - Microgabbro

NOTES

1. Bedrock geology data supplied as part of the Groundsure data search request. The search area was 250m from the Works site boundary at the time of the search request.

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WIDER WORKS

Document Title: FIGURE 6.A.2
BEDROCK GEOLOGY

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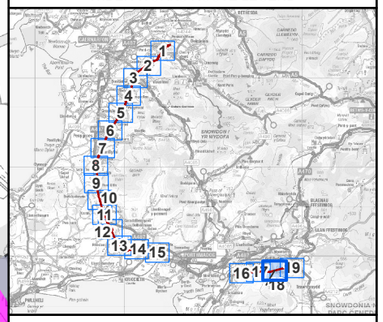

Legend

- Indicative Wider Works Site Boundary
- 250m Buffer of Indicative Wider Works Site Boundary

BGS Bedrock, Faults and Linear Features 50k

- Fault, Inferred, Displacement Unknown

BGS Bedrock Geology 50k

- Clogau Formation - Mudstone
- Gamlan Formation - Mudstone And Siltstone
- Gamlan Formation - Sandstone
- Maentwrog Formation - Mudstone, Siltstone And Sandstone
- Unnamed Igneous Intrusion, Ordovician - Diorite And Gabbro
- Unnamed Igneous Intrusion, Ordovician - Microgabbro

NOTES

1. Bedrock geology data supplied as part of the Groundsure data search request. The search area was 250m from the Works site boundary at the time of the search request.

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Scheme: PENTIR TO TRAWSFYNYDD REINFORCEMENT

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WIDER WORKS

Document Title: FIGURE 6.A.2
BEDROCK GEOLOGY

Creator:	Date:	Checker:	Date:	Approver:	Date:
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FIGURE	1:8,000	A3	18 OF 19	A

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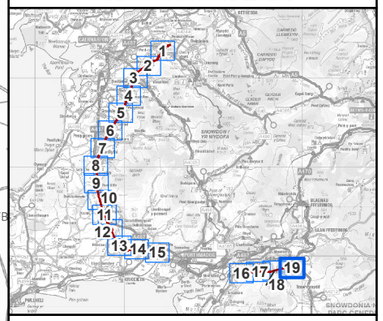
WIDER WORKS ROUTE LEGEND



Legend

- Indicative Wider Works Site Boundary
- 250m Buffer of Indicative Wider Works Site Boundary

BGS Bedrock, Faults and Linear Features 50k

- Fault, Inferred, Displacement Unknown

BGS Bedrock Geology 50k

- Barmouth Formation - Sandstone And Mudstone
- Clogau Formation - Mudstone
- Gamlan Formation - Mudstone And Siltstone
- Gamlan Formation - Sandstone
- Hafotty Formation - Mudstone
- Rhinog Formation - Sandstone And Mudstone
- Unnamed Igneous Intrusion, Ordovician - Diorite And Gabbro
- Unnamed Igneous Intrusion, Ordovician - Microgabbro

NOTES

1. Bedrock geology data supplied as part of the Groundsure data search request. The search area was 250m from the Works site boundary at the time of the search request.

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WIDER WORKS

Document Title: FIGURE 6.A.2
BEDROCK GEOLOGY

Creator:	Date:	Checker:	Date:	Approver:	Date:
LP	18/08/2025	SB	18/08/2025	NL	18/08/2025

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Metres

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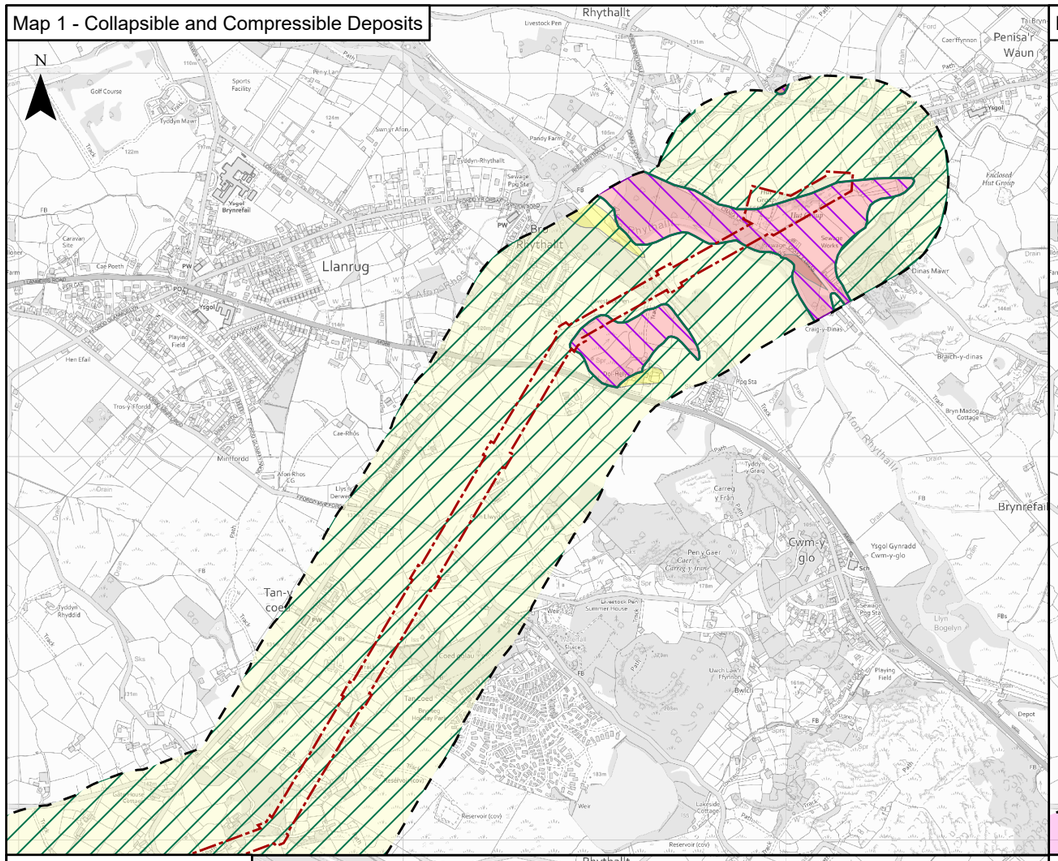
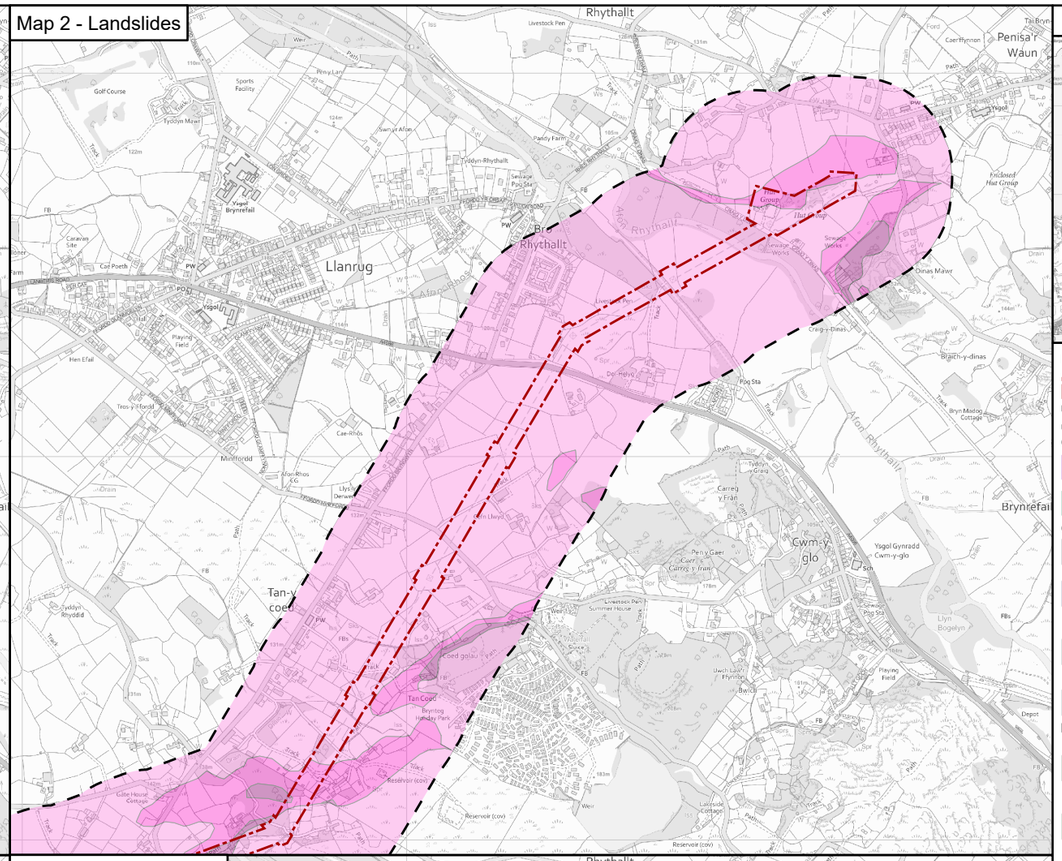
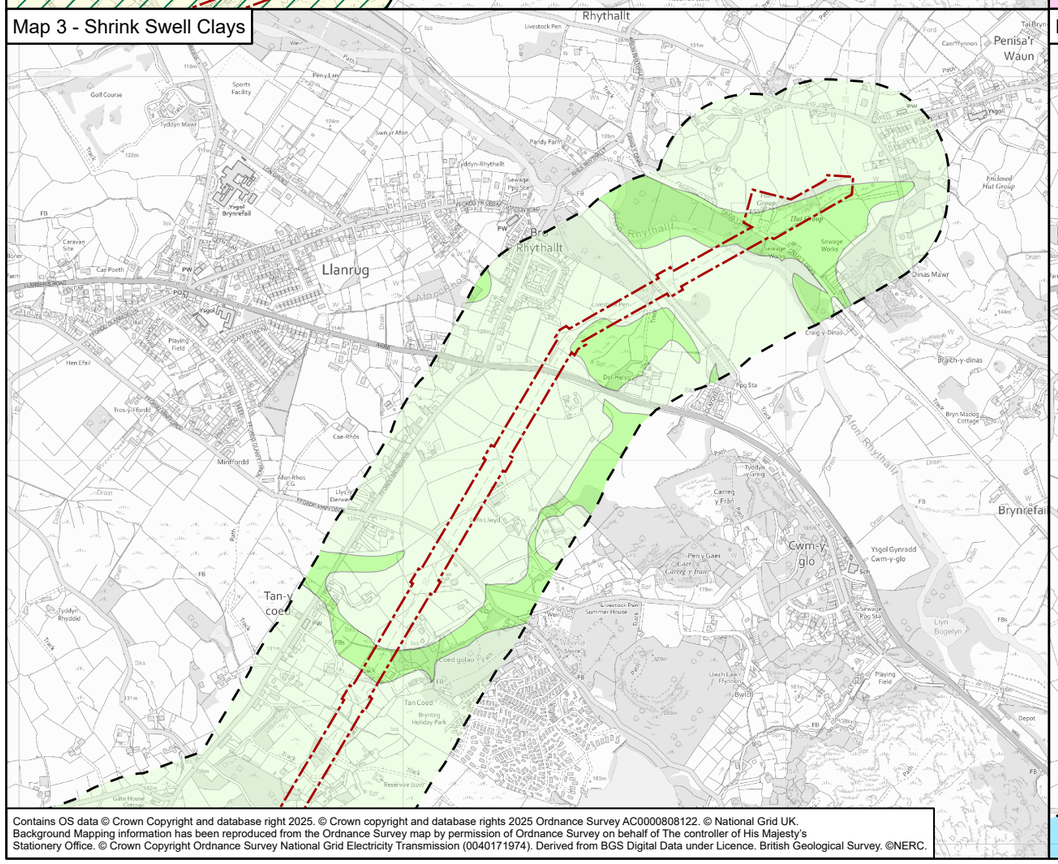
Map 1 - Collapsible and Compressible Deposits



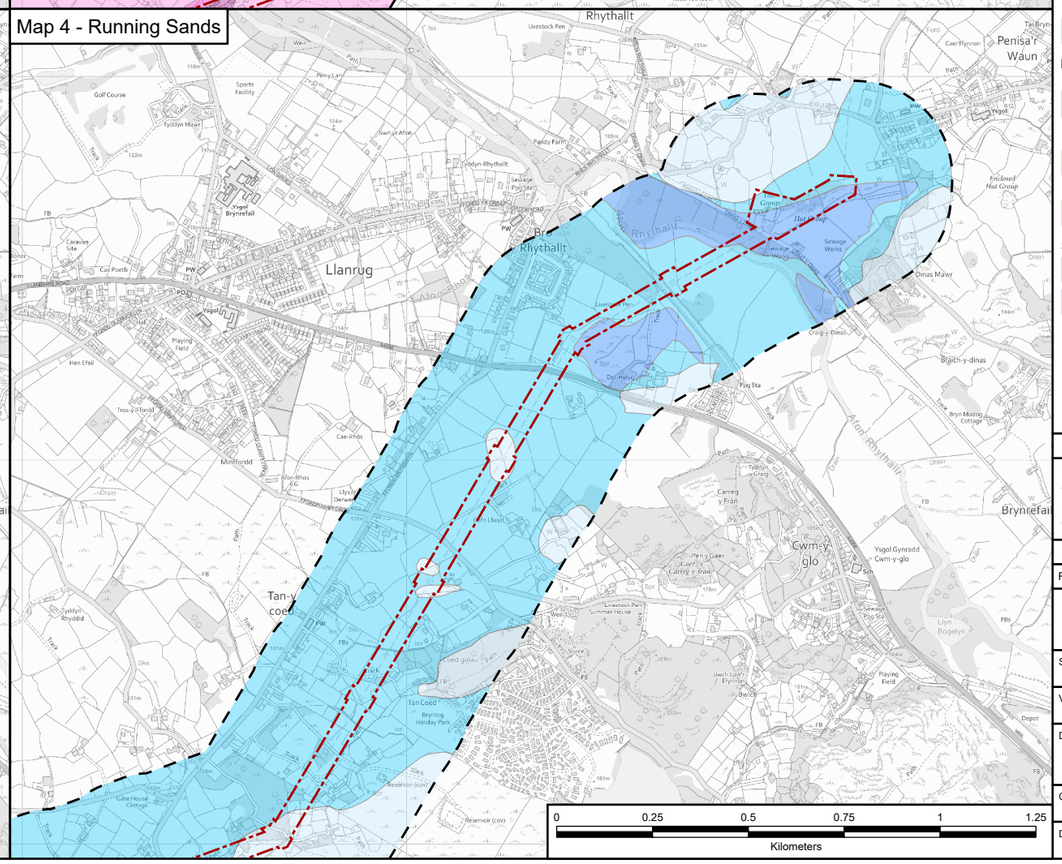
Map 2 - Landslides



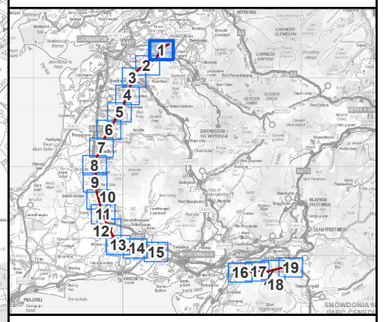
Map 3 - Shrink Swell Clays



Map 4 - Running Sands



WIDER WORKS ROUTE LEGEND



Legend

- Indicative Wider Works Site Boundary
- 250m Buffer of Indicative Wider Works Site Boundary

Collapsible Deposits

- Deposits with potential to collapse when loaded and saturated are believed not to be present.
- Deposits with potential to collapse when loaded and saturated are unlikely to be present.

Compressible Deposits

- Compressible strata are not thought to occur.
- Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses.
- Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.
- Highly compressible strata present. Significant constraint on land use depending on thickness.

Landslides

- Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.
- Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
- Slope instability problems are probably present or have occurred in the past. Land use should consider specifically the stability of the site.

Running Sand

- Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.
- Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.
- Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.

Shrink Swell Clays

- Ground conditions predominantly non-plastic.
- Ground conditions predominantly low plasticity.

NOTES

1. Ground stability data supplied as part of the Groundsure data search request. The search area was 250m from the Works site boundary at the time of the search request.

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WIDER WORKS

Document Title:
FIGURE 6.A.3
GROUND STABILITY

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LP	18/08/2025	SB	18/08/2025	NL	18/08/2025

Document Type:	Scale:	Format:	Sheets:	Rev:
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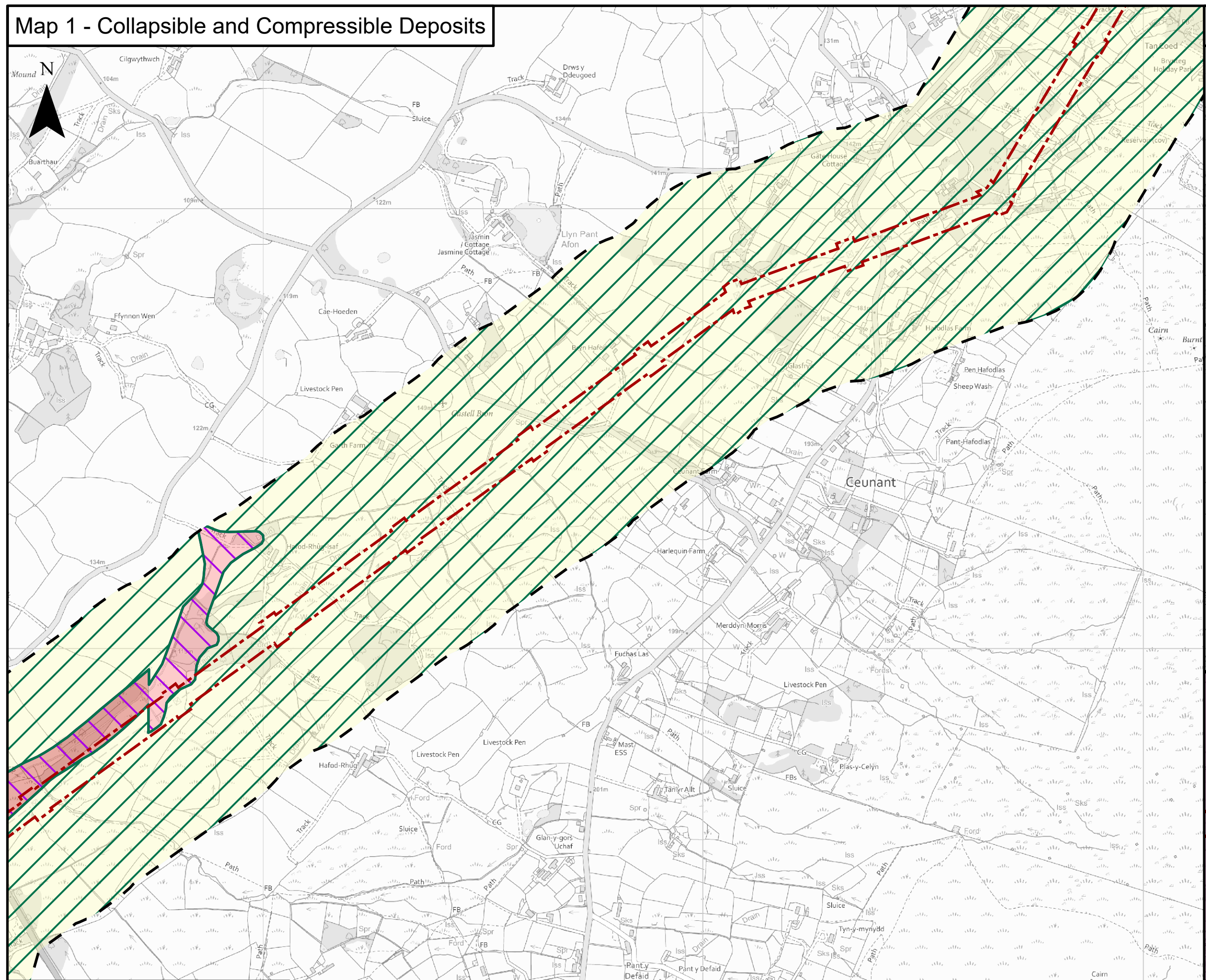

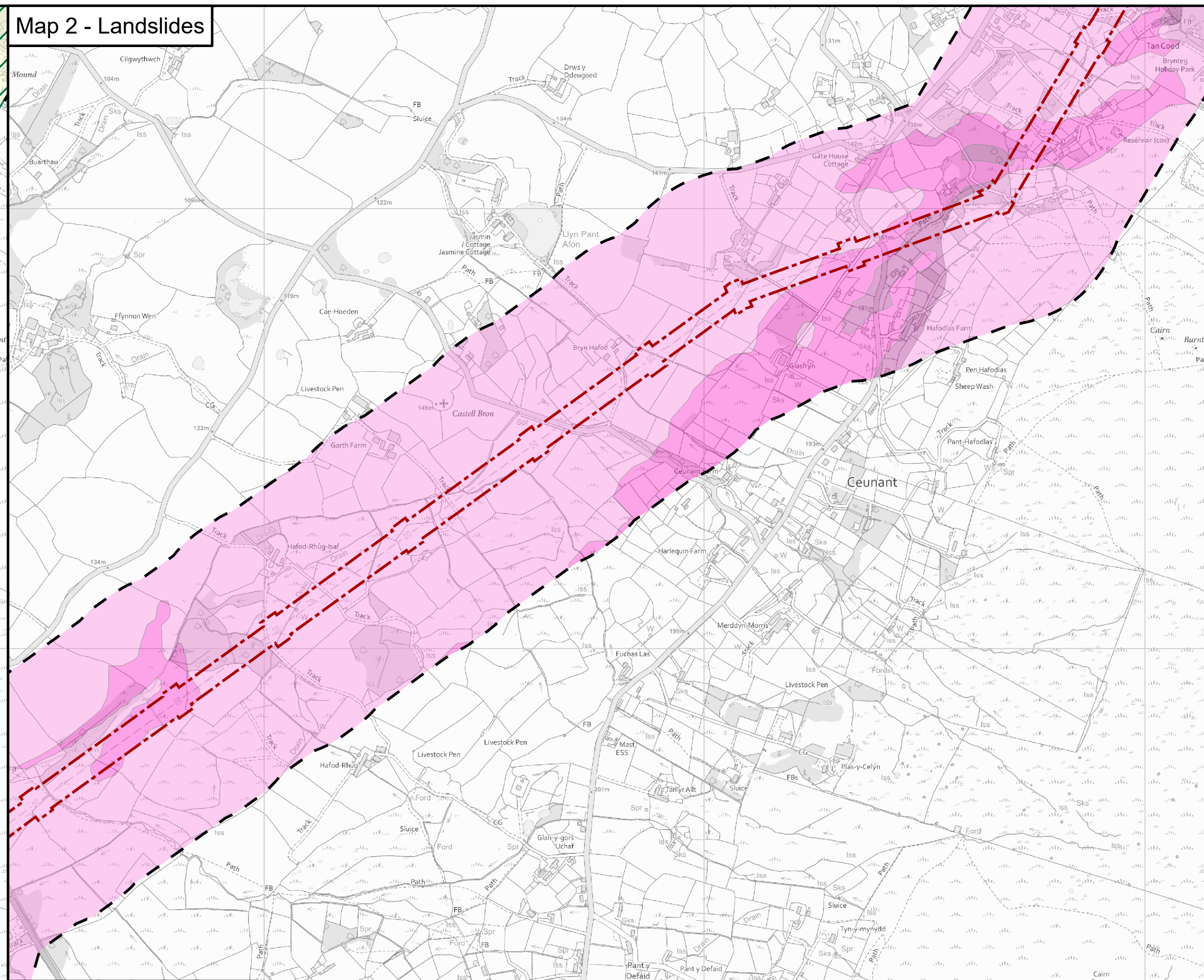

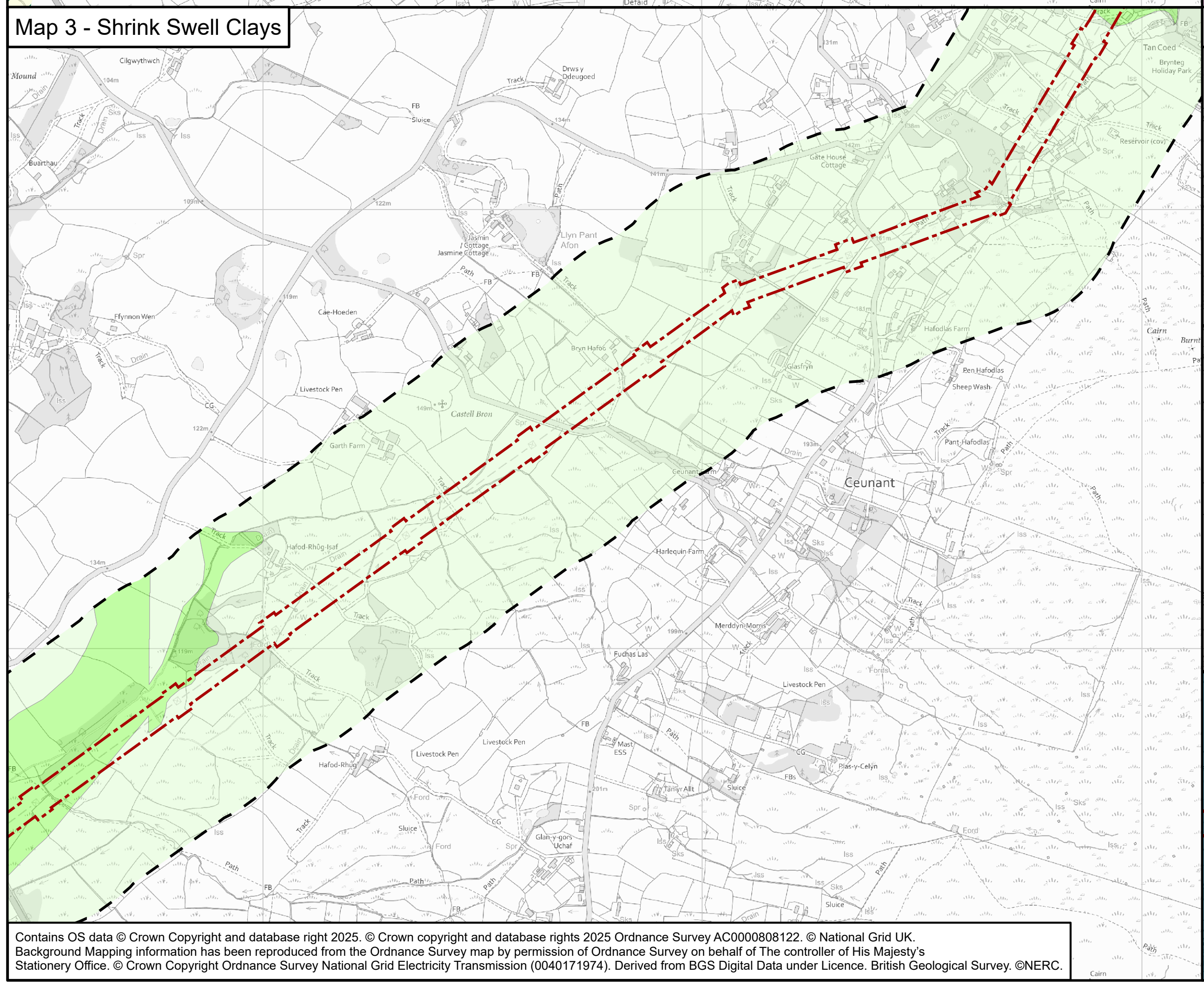

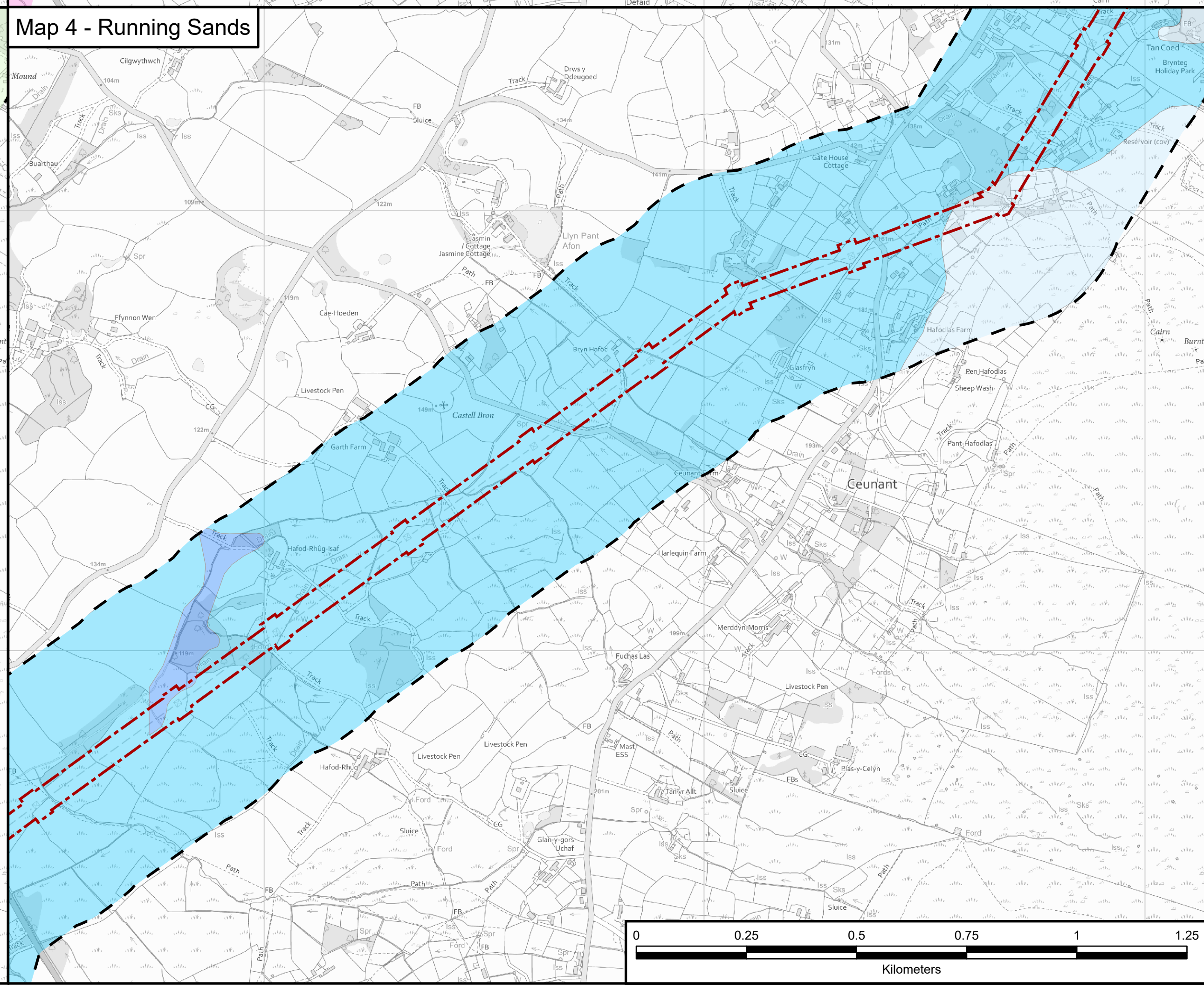

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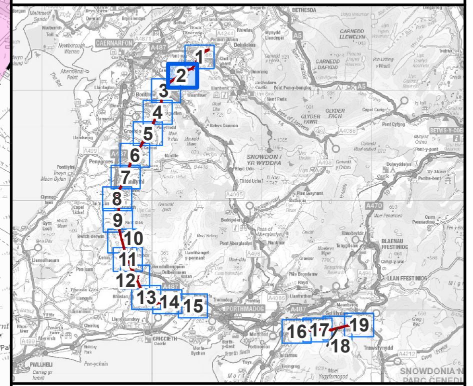

Legend

- Indicative Wider Works Site Boundary
- 250m Buffer of Indicative Wider Works Site Boundary

Collapsible Deposits

- Deposits with potential to collapse when loaded and saturated are believed not to be present.
- Deposits with potential to collapse when loaded and saturated are unlikely to be present.

Compressible Deposits

- Compressible strata are not thought to occur.
- Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.
- Highly compressible strata present. Significant constraint on land use depending on thickness.

Landslides

- Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.
- Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
- Slope instability problems are probably present or have occurred in the past. Land use should consider specifically the stability of the site.

Running Sand

- Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.
- Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.
- Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.

Shrink Swell Clays

- Ground conditions predominantly non-plastic.
- Ground conditions predominantly low plasticity.

NOTES

1. Ground stability data supplied as part of the Groundsure data search request. The search area was 250m from the Works site boundary at the time of the search request.

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Document Title: FIGURE 6.A.3 GROUND STABILITY

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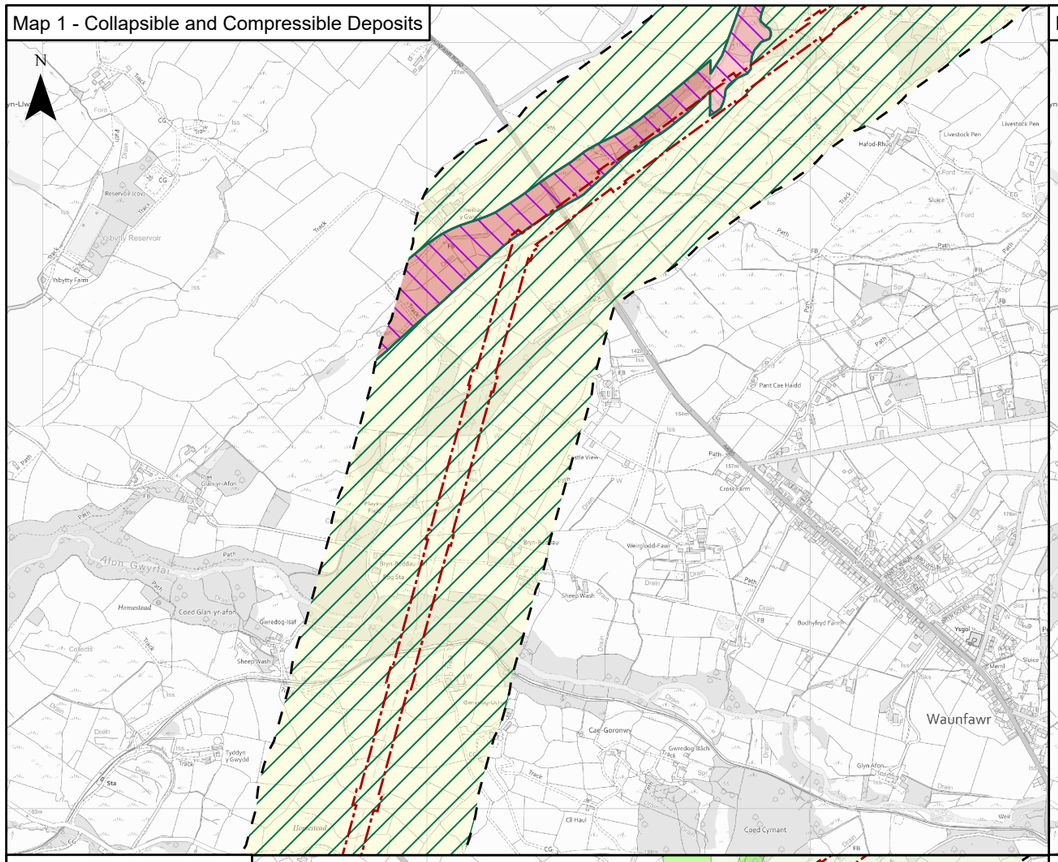
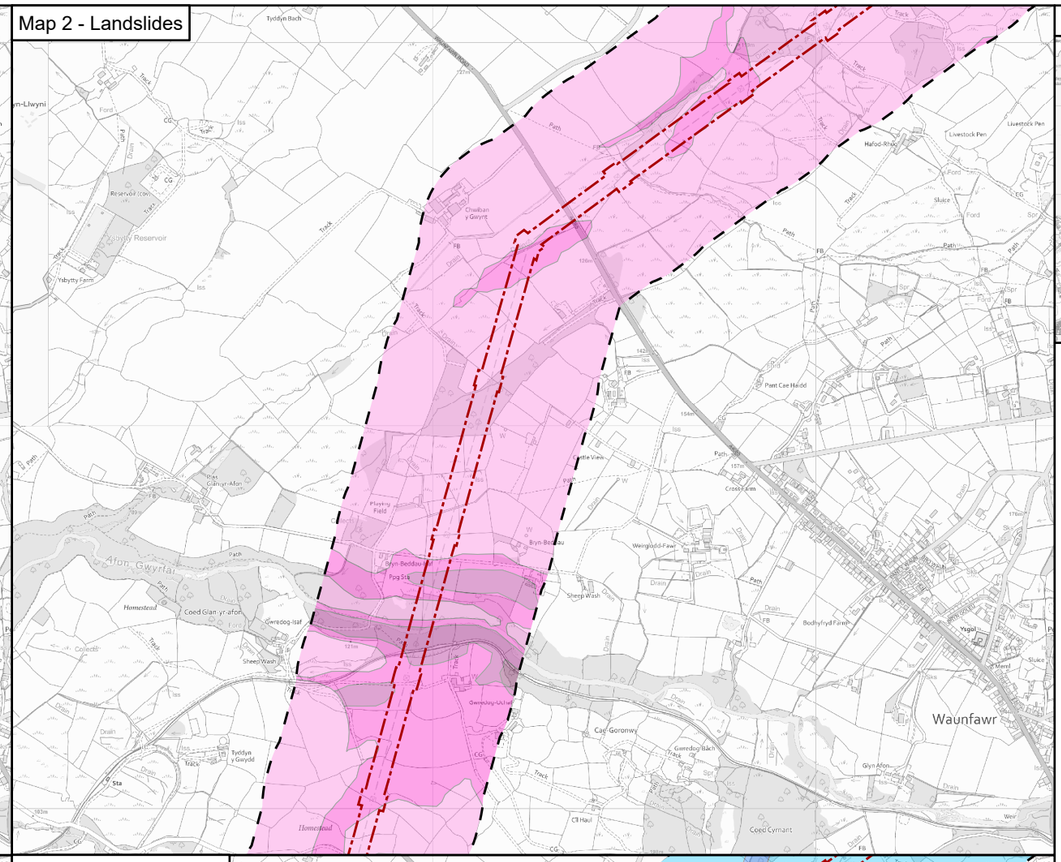
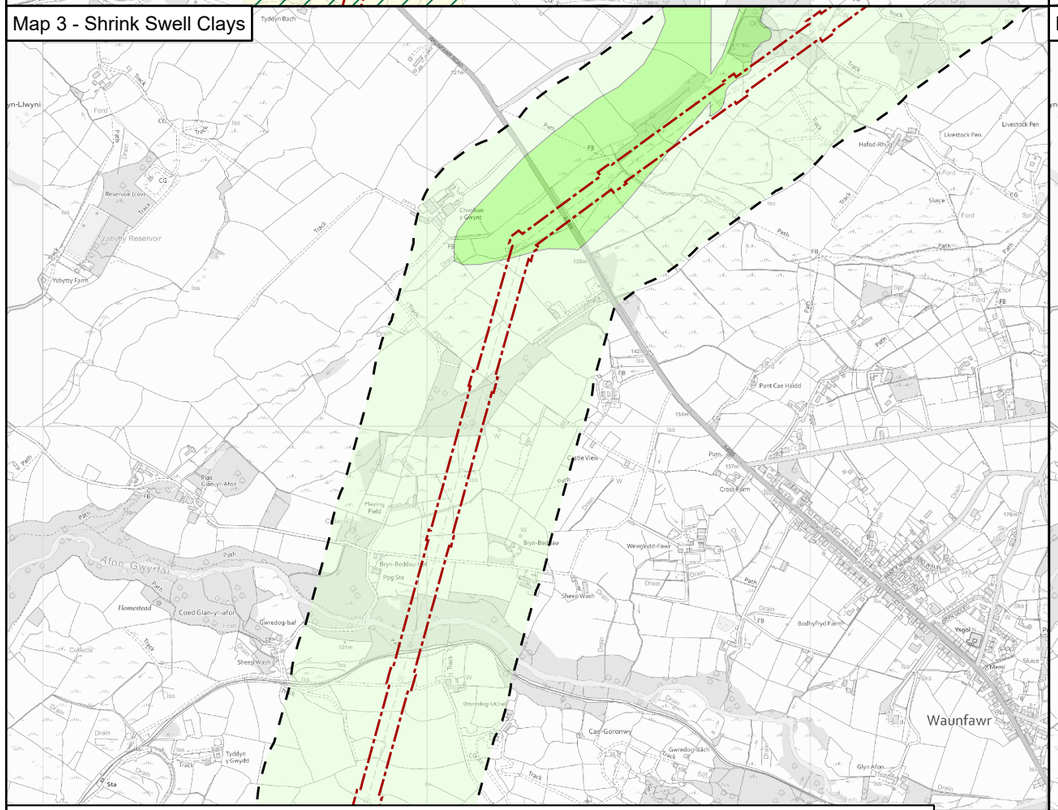
Map 1 - Collapsible and Compressible Deposits



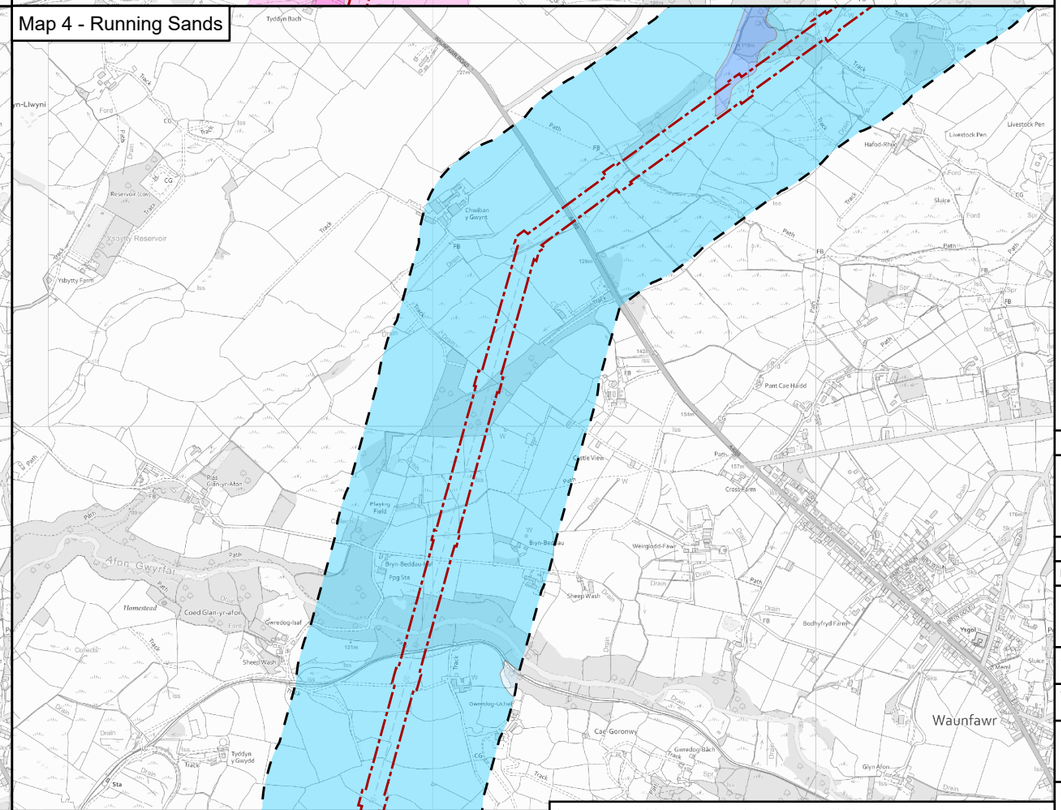
Map 2 - Landslides



Map 3 - Shrink Swell Clays



Map 4 - Running Sands



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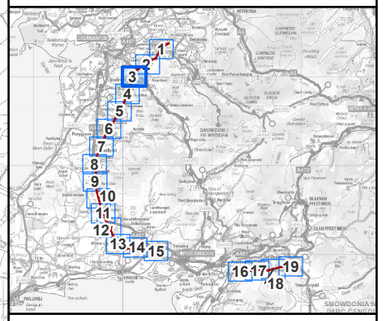


Legend

Indicative Wider Works Site Boundary

250m Buffer of Indicative Wider Works Site Boundary

Collapsible Deposits

Deposits with potential to collapse when loaded and saturated are believed not to be present.

Deposits with potential to collapse when loaded and saturated are unlikely to be present.

Compressible Deposits

Compressible strata are not thought to occur.

Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.

Highly compressible strata present. Significant constraint on land use depending on thickness.

Landslides

Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.

Slope instability problems are probably present or have occurred in the past. Land use should consider specifically the stability of the site.

Slope instability problems almost certainly present and may be active. Significant constraint on land use.

Running Sand

Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.

Shrink Swell Clays

Ground conditions predominantly non-plastic.

Ground conditions predominantly low plasticity.

NOTES

1. Ground stability data supplied as part of the Groundsure data search request. The search area was 250m from the Works site boundary at the time of the search request.

Rev	Date	Description	GIS	Chk	App
A	18/08/2025	Environmental Statement	LP	SB	NL

nationalgrid

Scheme: PENTIR TO TRAWSFYNYDD REINFORCEMENT

Volume: VOLUME 8: APPENDICES
WIDER WORKS

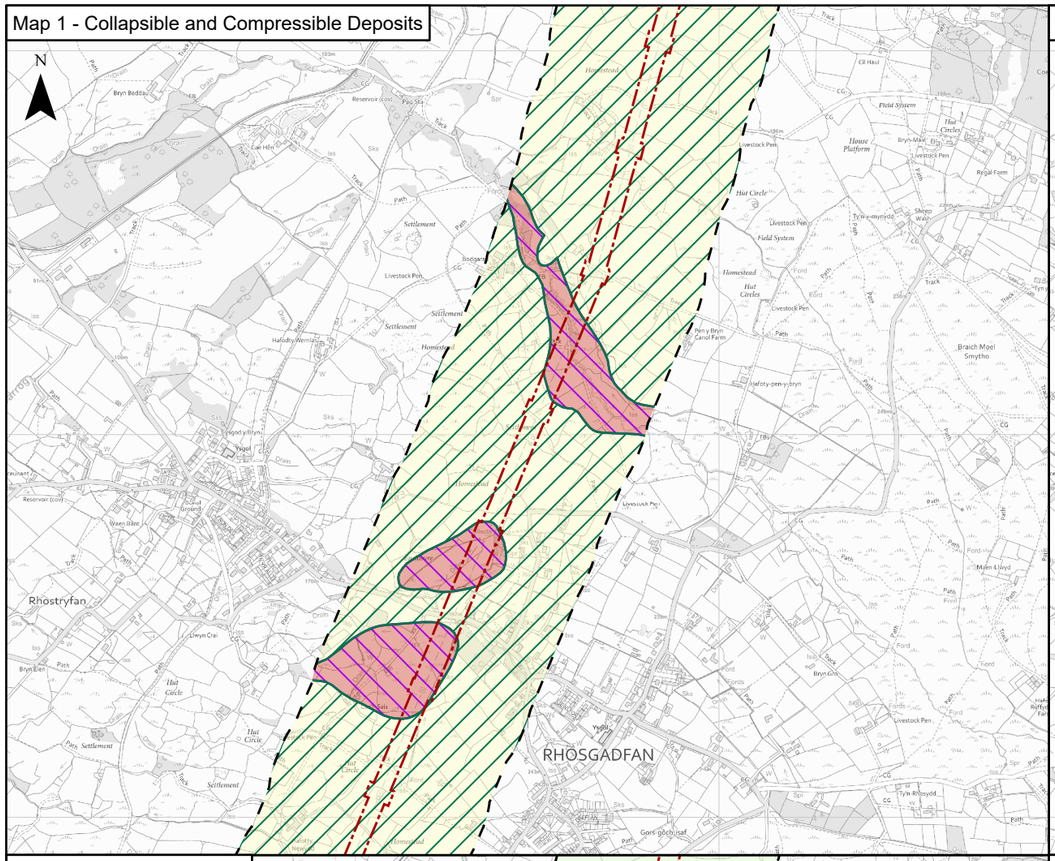
Document Title: FIGURE 6.A.3
GROUND STABILITY

Creator:	Date:	Checker:	Date:	Approver:	Date:
LP	18/08/2025	SB	18/08/2025	NL	18/08/2025

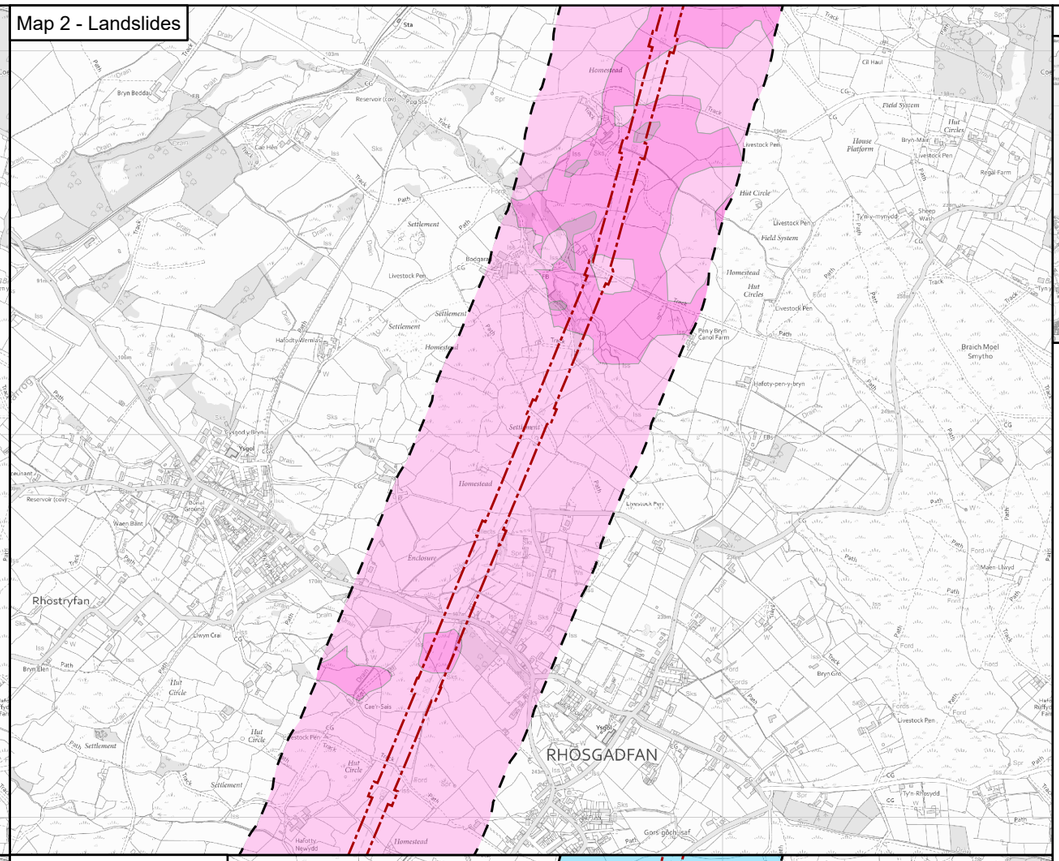
Document Type:	Scale:	Format:	Sheets:	Rev:
FIGURE	1:16,000	A3	3 OF 19	A

Document Path: \\na.aecomnet.com\lfs\EMEA\Manchester-UKMCR5\DCS\Projects\EGE\60686216_NWWC_GIS2\900_CAD_GIS\920_GIS\02_Maps\PTR - Environmental Statement\PTR_ES_Chp7_Fig3_GEO_GroundStability.aprx

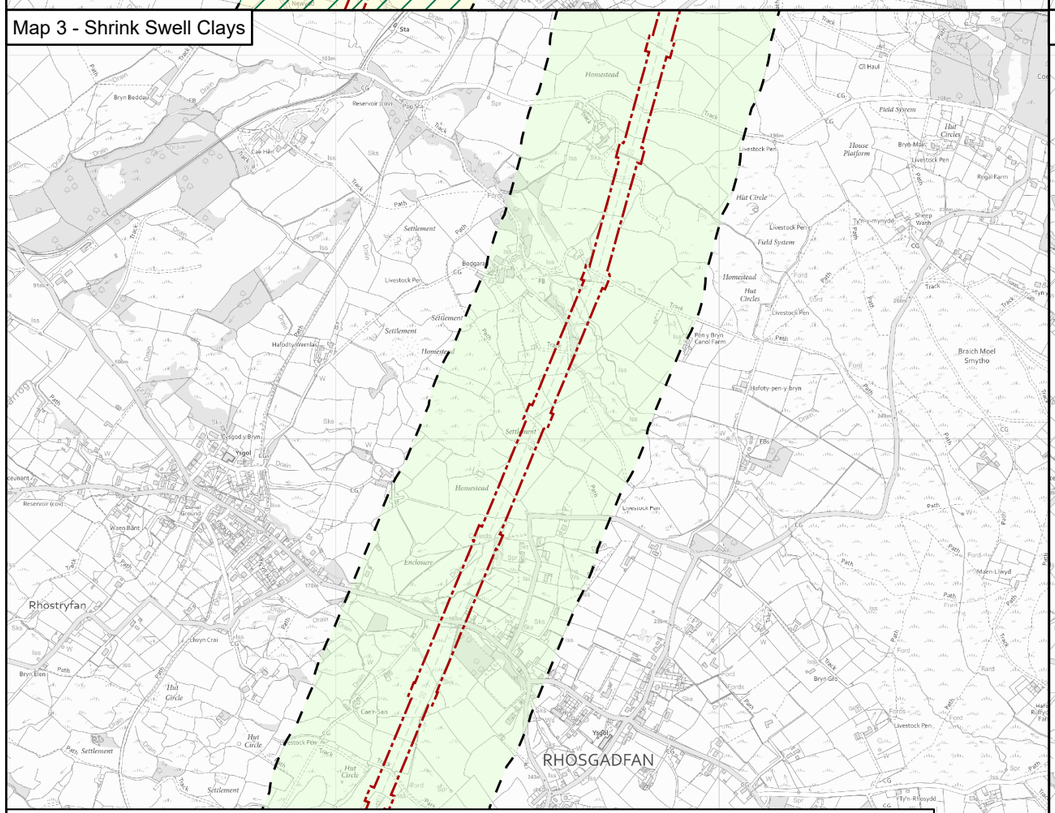
Map 1 - Collapsible and Compressible Deposits



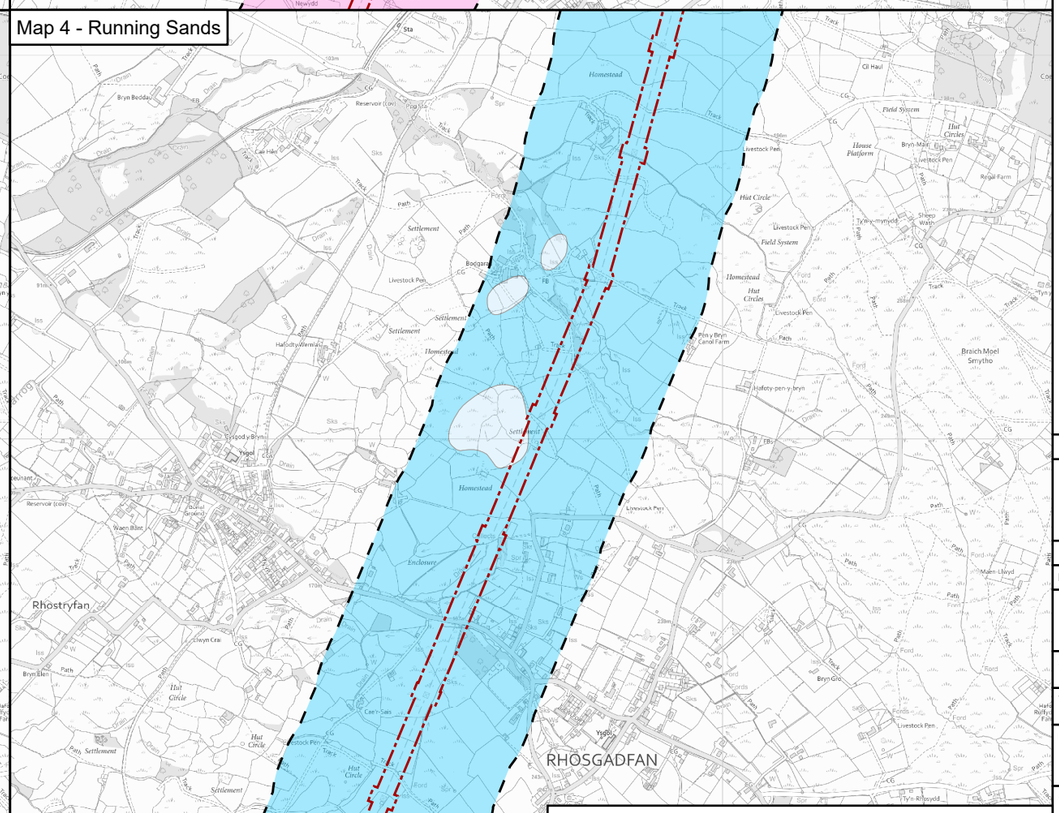
Map 2 - Landslides



Map 3 - Shrink Swell Clays



Map 4 - Running Sands



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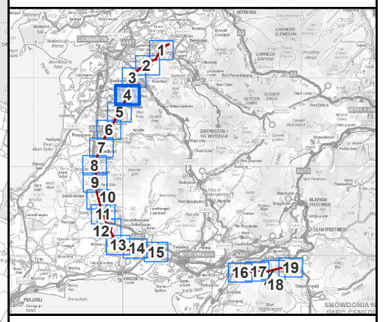
0 0.25 0.5 0.75 1 1.25
Kilometers

WIDER WORKS ROUTE LEGEND



Legend

Indicative Wider Works Site Boundary

250m Buffer of Indicative Wider Works Site Boundary

Collapsible Deposits

Deposits with potential to collapse when loaded and saturated are believed not to be present.

Deposits with potential to collapse when loaded and saturated are unlikely to be present.

Compressible Deposits

Compressible strata are not thought to occur.

Highly compressible strata present. Significant constraint on land use depending on thickness.

Landslides

Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.

Slope instability problems are probably present or have occurred in the past. Land use should consider specifically the stability of the site.

Running Sand

Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

Shrink Swell Clays

Ground conditions predominantly non-plastic.

NOTES

1. Ground stability data supplied as part of the Groundsure data search request. The search area was 250m from the Works site boundary at the time of the search request.

Rev	Date	Description	GIS	Chk	App
A	18/08/2025	Environmental Statement	LP	SB	NL

nationalgrid

Scheme: PENTIR TO TRAWSFYNYDD REINFORCEMENT

Volume: VOLUME 8: APPENDICES WIDER WORKS

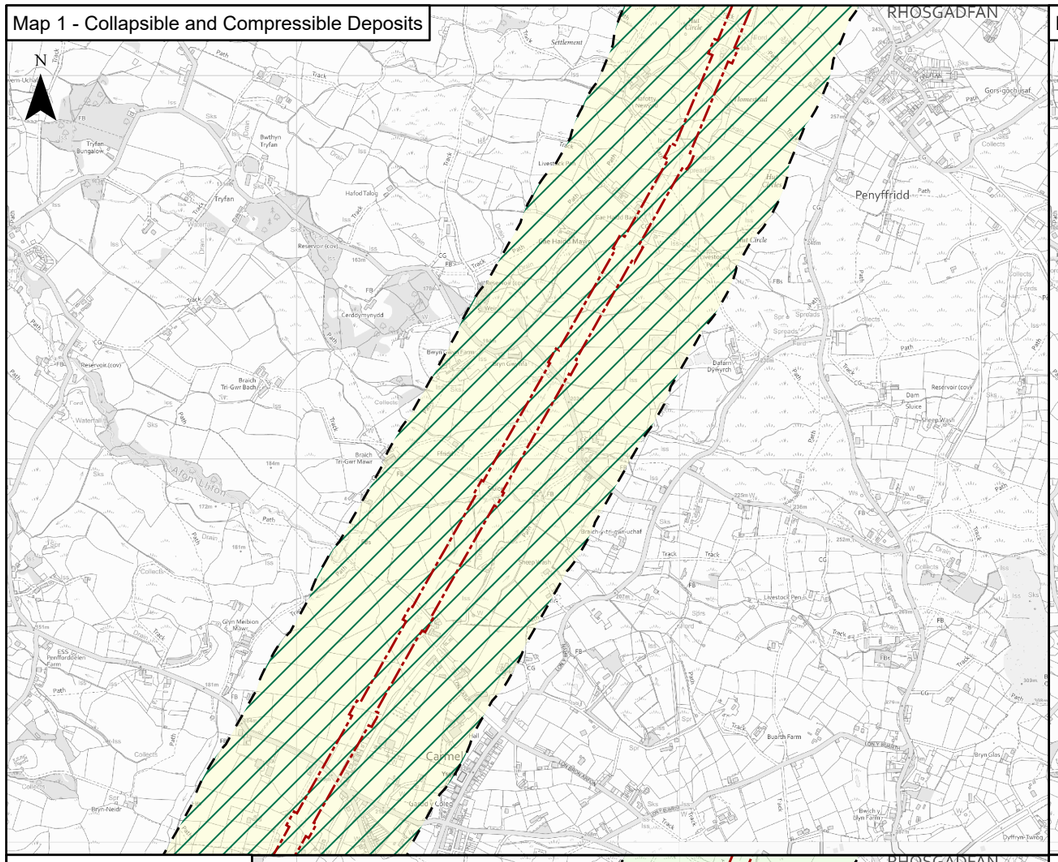
Document Title: FIGURE 6.A.3 GROUND STABILITY

Creator:	Date:	Checker:	Date:	Approver:	Date:
LP	18/08/2025	SB	18/08/2025	NL	18/08/2025

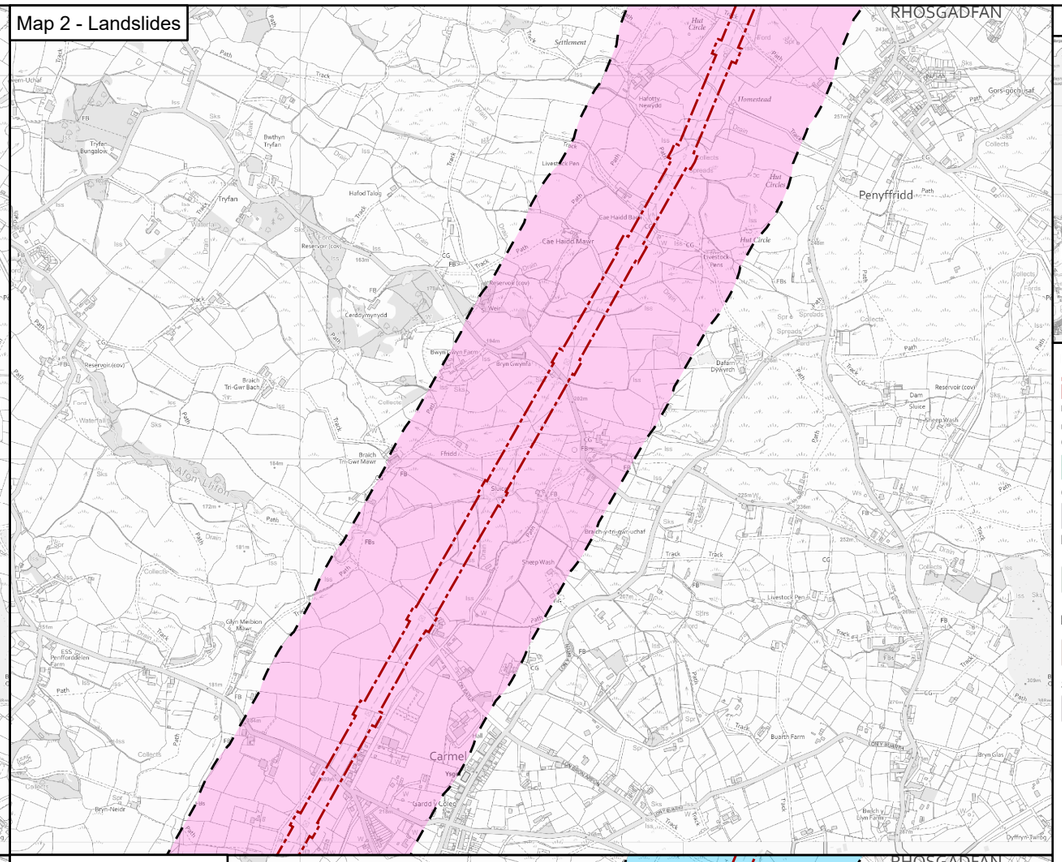
Document Type:	Scale:	Format:	Sheets:	Rev:
FIGURE	1:16,000	A3	4 OF 19	A

Document Path: \\na.aecomnet.com\lfs\EMEA\Manchester-UKMCR5\DCS\Projects\EGE\60686216_NWWC_GIS2\900_CAD_GIS\920_GIS\02_Maps\PTR - Environmental Statement\PTR_ES_Chp7_Fig3_GEO_GroundStability.aprx

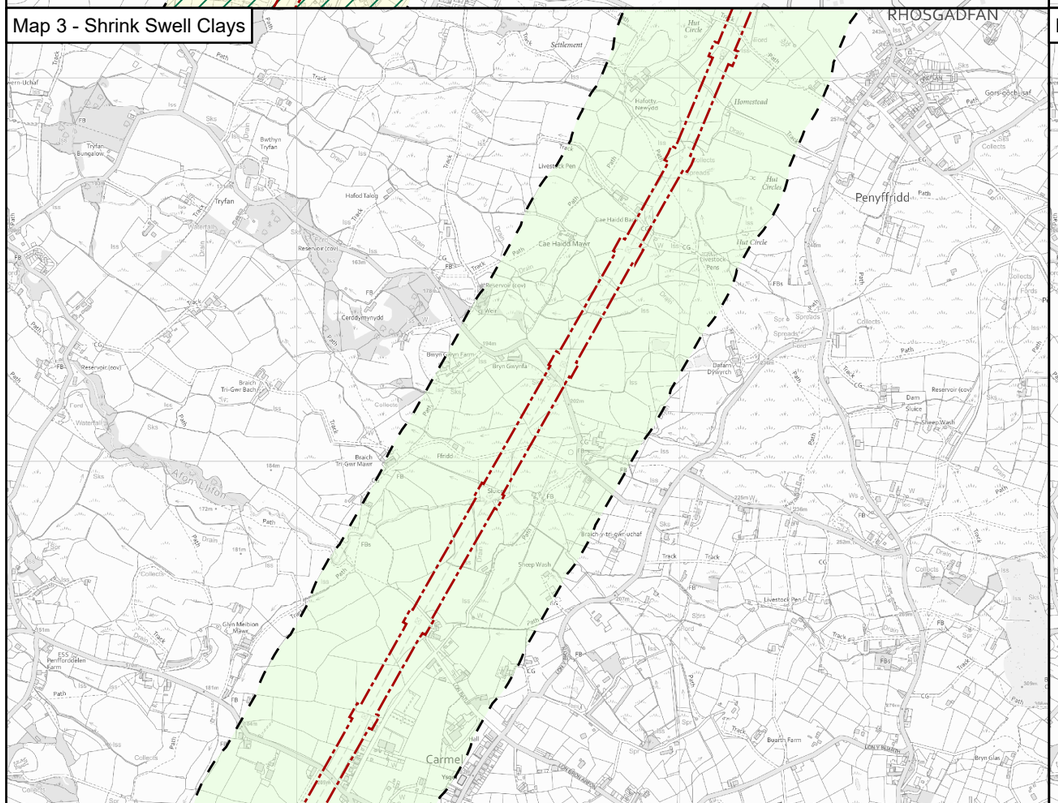
Map 1 - Collapsible and Compressible Deposits



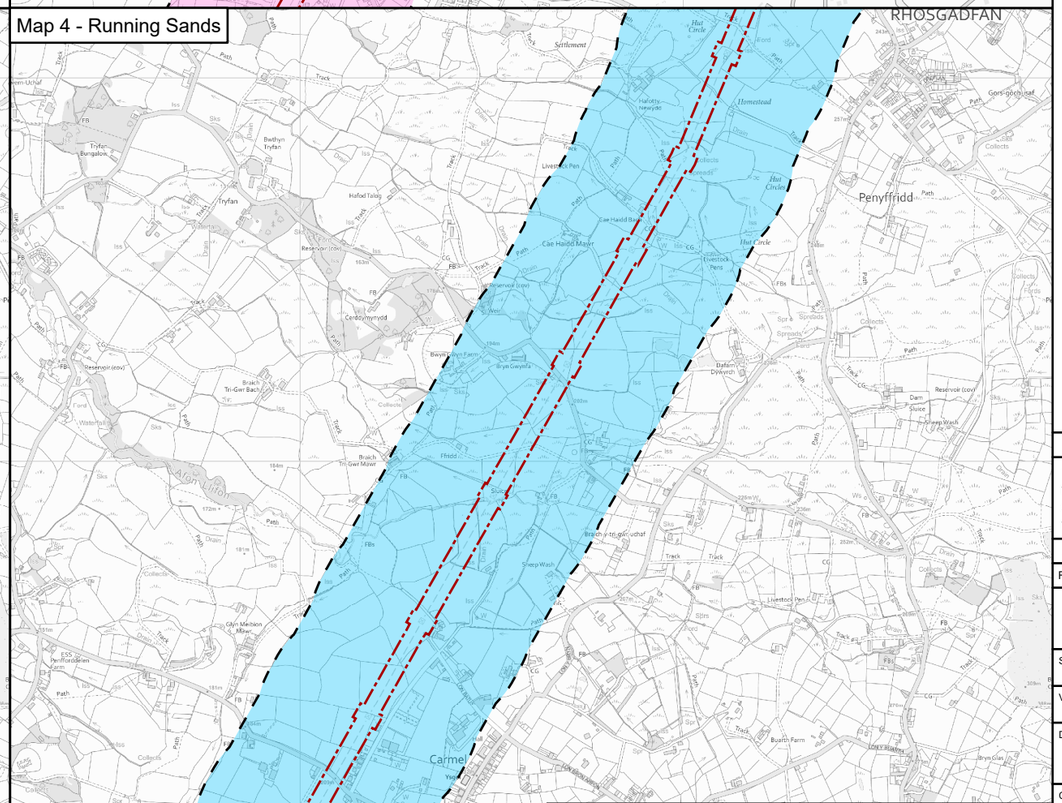
Map 2 - Landslides



Map 3 - Shrink Swell Clays



Map 4 - Running Sands



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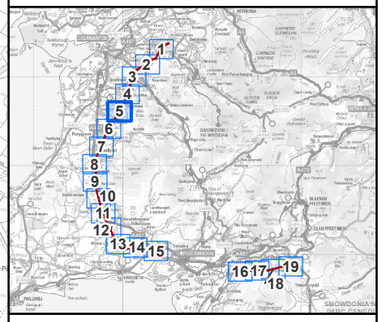
0 0.25 0.5 0.75 1 1.25
Kilometers

WIDER WORKS ROUTE LEGEND



Legend

- Indicative Wider Works Site Boundary
- 250m Buffer of Indicative Wider Works Site Boundary

Collapsible Deposits
- Deposits with potential to collapse when loaded and saturated are unlikely to be present.

Compressible Deposits
- Compressible strata are not thought to occur.

Landslides
- Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

Running Sand
- Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

Shrink Swell Clays
- Ground conditions predominantly non-plastic.

NOTES

1. Ground stability data supplied as part of the Groundsure data search request. The search area was 250m from the Works site boundary at the time of the search request.

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A	18/08/2025	Environmental Statement	LP	SB	NL

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Volume: VOLUME 8: APPENDICES
WIDER WORKS

Document Title: FIGURE 6.A.3
GROUND STABILITY

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Document Type:	Scale:	Format:	Sheets:	Rev:
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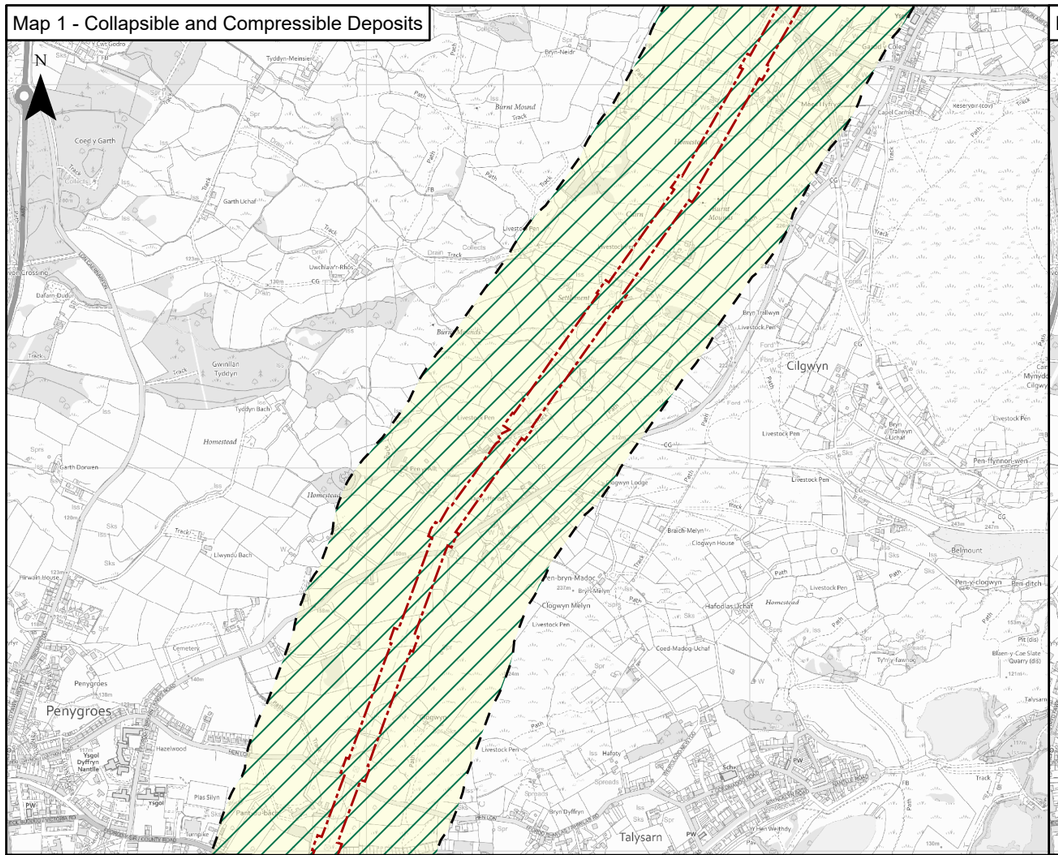
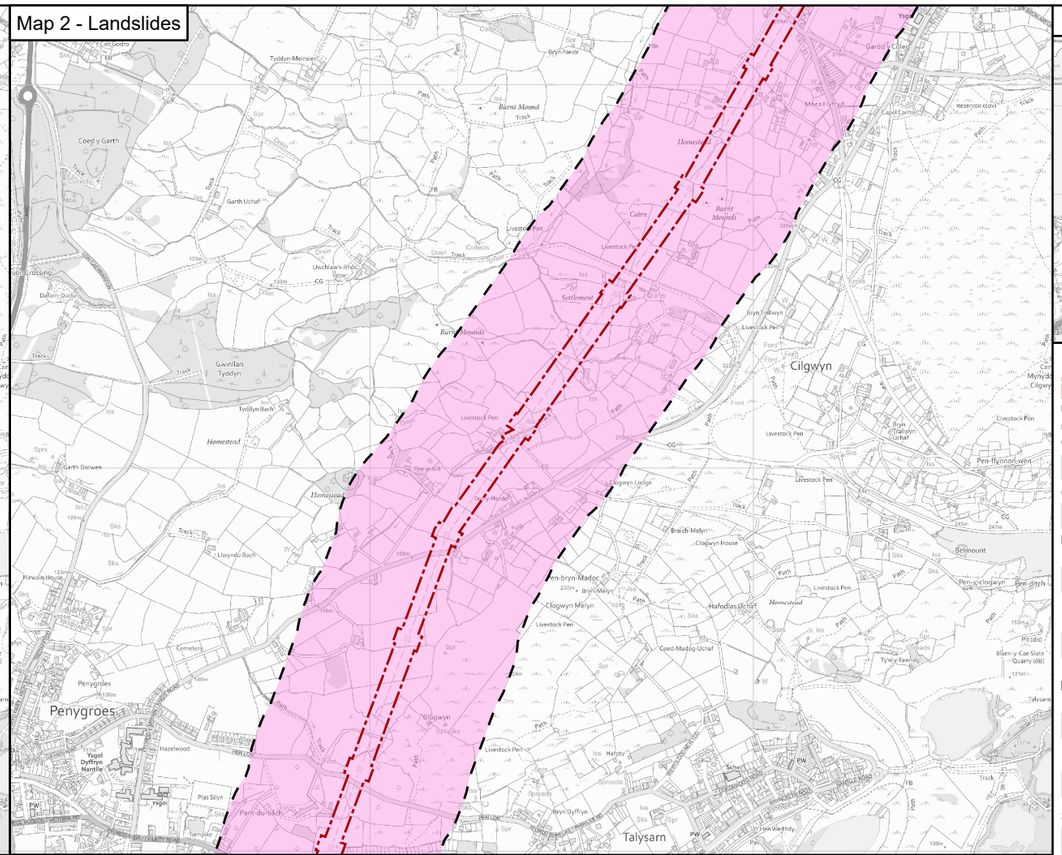
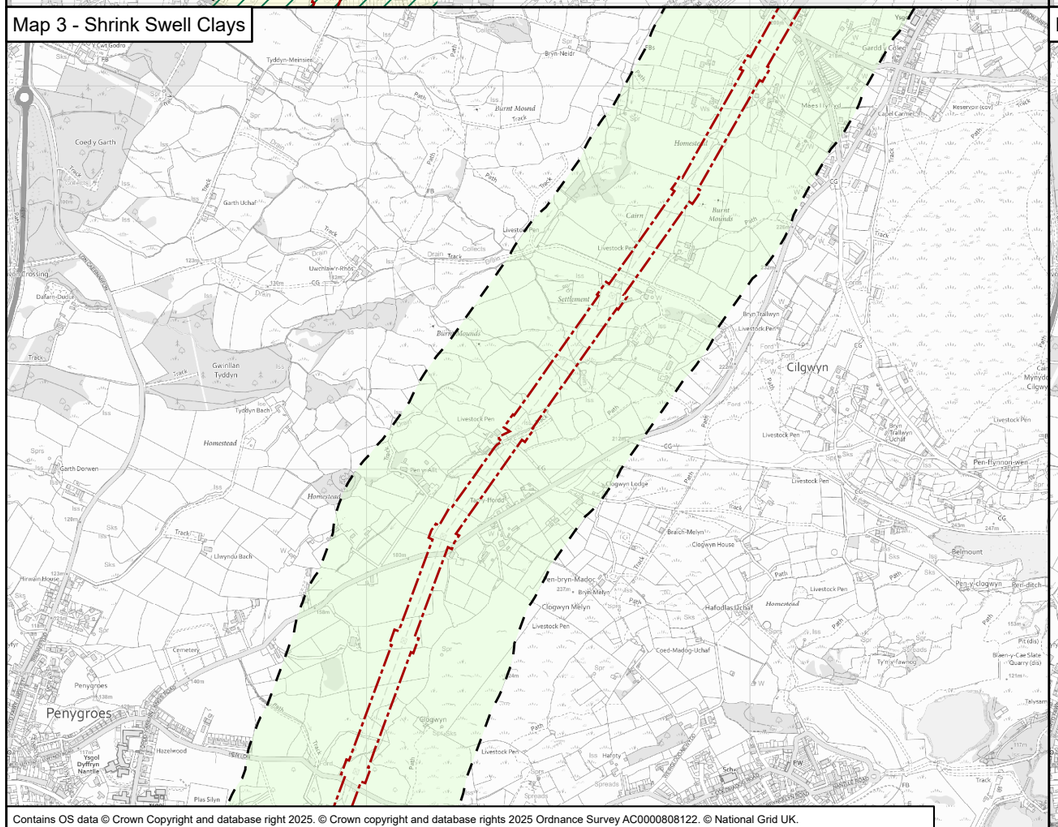
Map 1 - Collapsible and Compressible Deposits



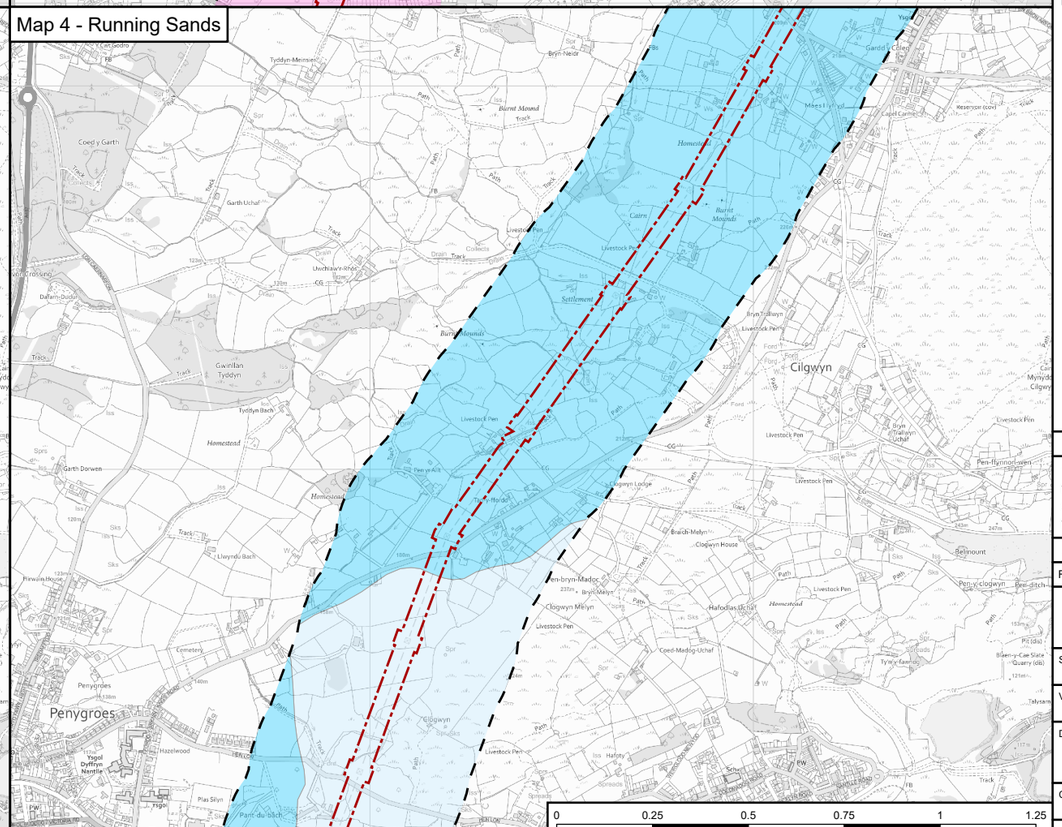
Map 2 - Landslides



Map 3 - Shrink Swell Clays



Map 4 - Running Sands



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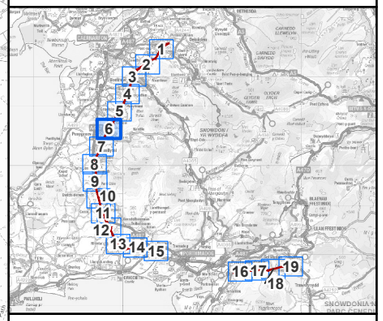
0 0.25 0.5 0.75 1 1.25
Kilometers

WIDER WORKS ROUTE LEGEND



Legend

Indicative Wider Works Site Boundary

250m Buffer of Indicative Wider Works Site Boundary

Collapsible Deposits

Deposits with potential to collapse when loaded and saturated are unlikely to be present.

Compressible Deposits

Compressible strata are not thought to occur.

Landslides

Slope instability problems are not thought to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

Running Sand

Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

Shrink Swell Clays

Ground conditions predominantly non-plastic.

NOTES

1. Ground stability data supplied as part of the Groundsure data search request. The search area was 250m from the Works site boundary at the time of the search request.

Rev	Date	Description	GIS	Chk	App
A	18/08/2025	Environmental Statement	LP	SB	NL

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Scheme: PENTIR TO TRAWSFYNYDD REINFORCEMENT

Volume: VOLUME 8: APPENDICES WIDER WORKS

Document Title: FIGURE 6.A.3 GROUND STABILITY

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LP	18/08/2025	SB	18/08/2025	NL	18/08/2025

Document Type:	Scale:	Format:	Sheets:	Rev:
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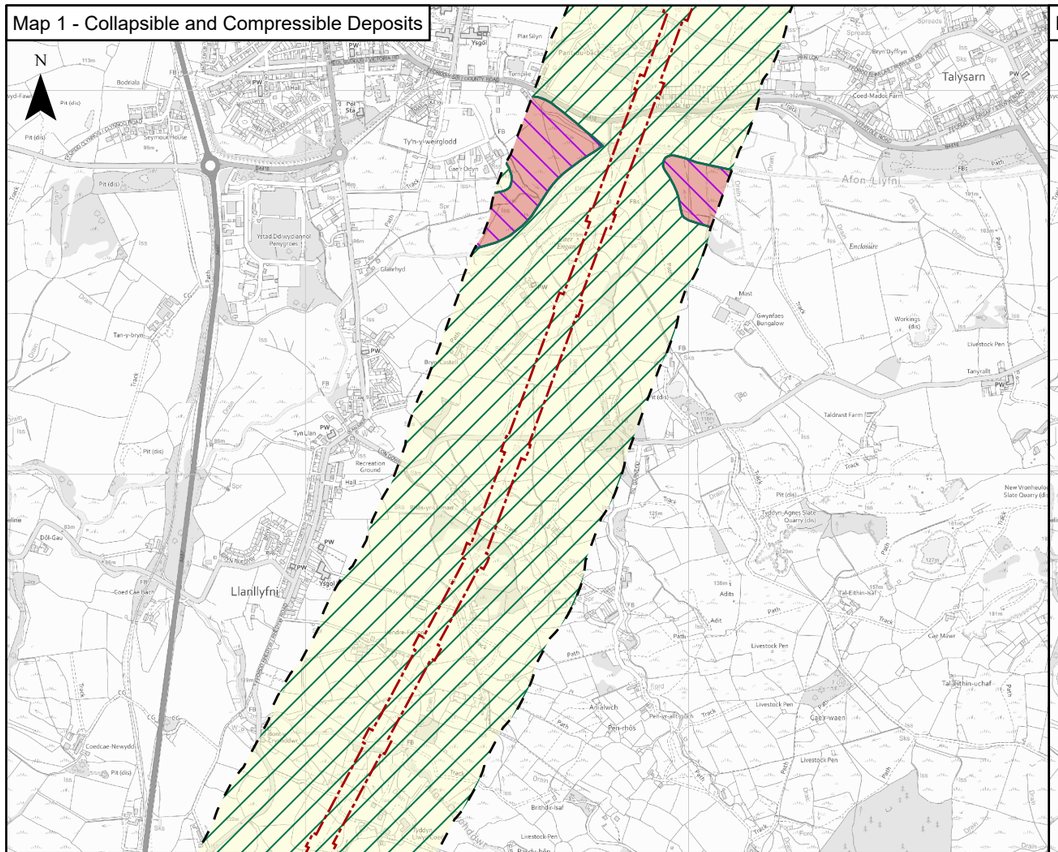
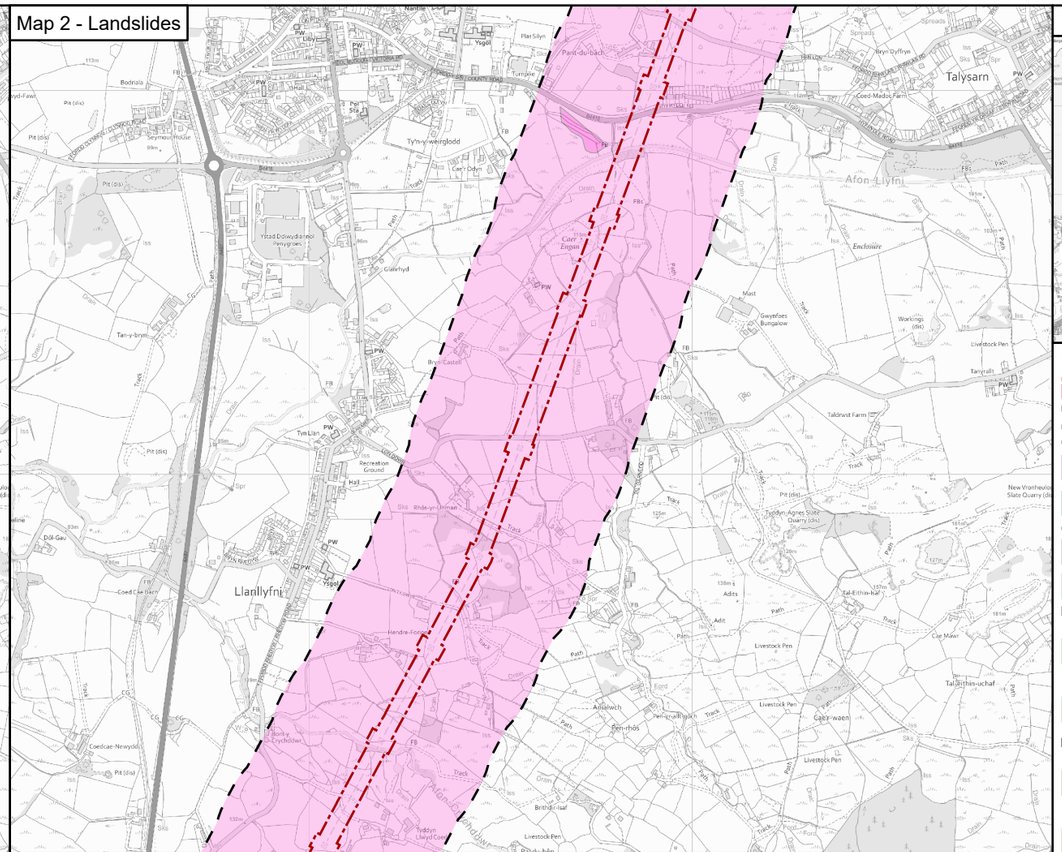
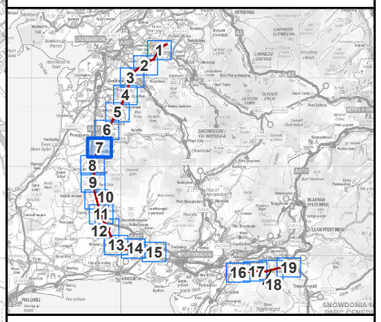
Map 1 - Collapsible and Compressible Deposits



Map 2 - Landslides



WIDER WORKS ROUTE LEGEND



Legend

Indicative Wider Works Site Boundary

250m Buffer of Indicative Wider Works Site Boundary

Collapsible Deposits

Deposits with potential to collapse when loaded and saturated are believed not to be present.

Deposits with potential to collapse when loaded and saturated are unlikely to be present.

Compressible Deposits

Compressible strata are not thought to occur.

Highly compressible strata present. Significant constraint on land use depending on thickness.

Landslides

Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.

Running Sand

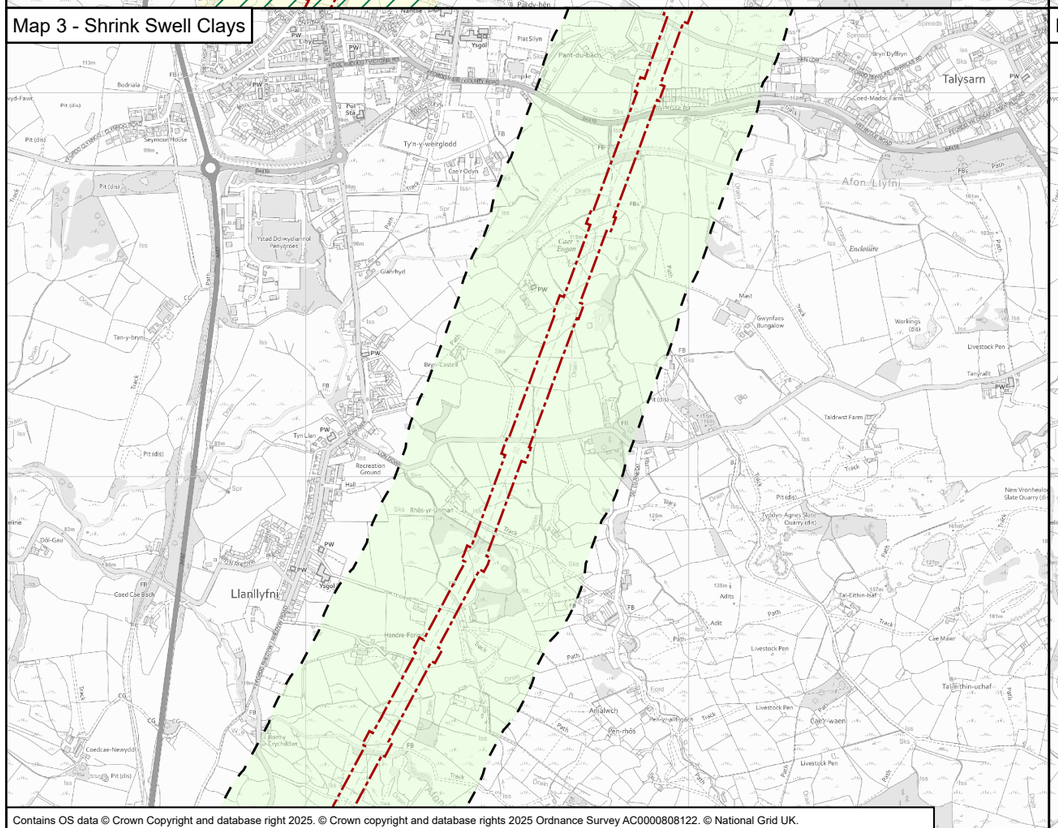
Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

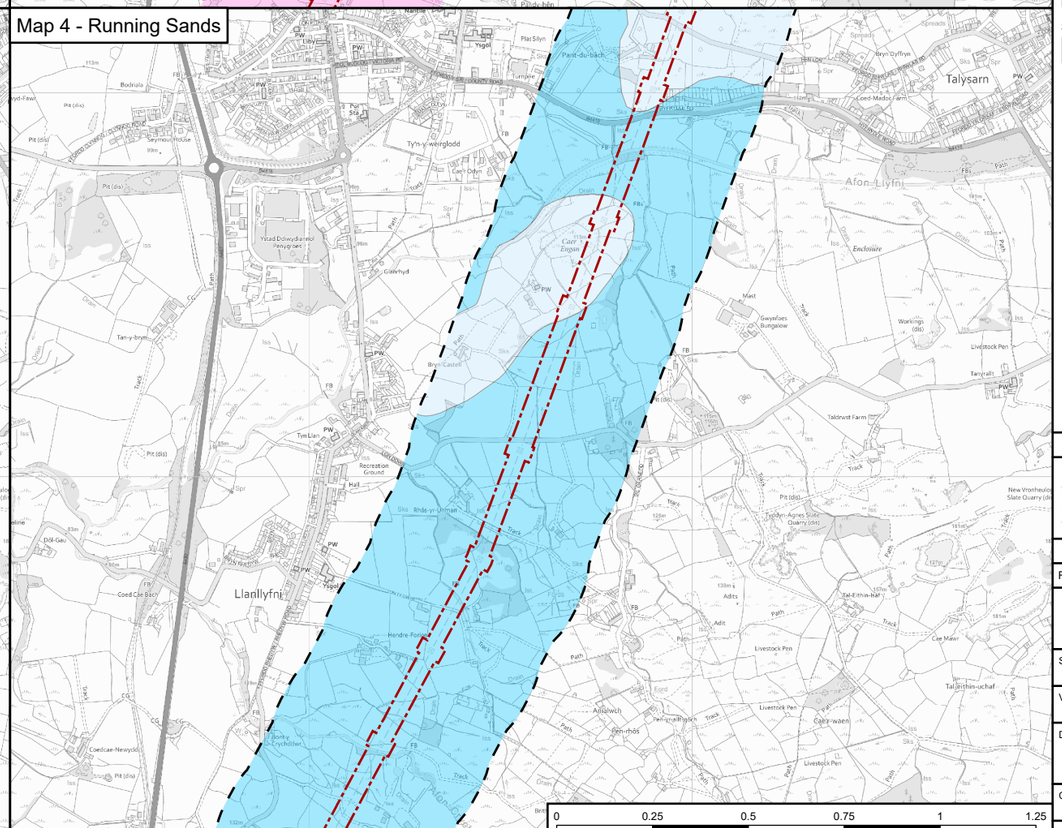
Shrink Swell Clays

Ground conditions predominantly non-plastic.

Map 3 - Shrink Swell Clays



Map 4 - Running Sands



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0 0.25 0.5 0.75 1 1.25
Kilometers

NOTES

1. Ground stability data supplied as part of the Groundsure data search request. The search area was 250m from the Works site boundary at the time of the search request.

Rev	Date	Description	GIS	Chk	App
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Scheme: PENTIR TO TRAWSFYNYDD REINFORCEMENT

Volume: VOLUME 8: APPENDICES
WIDER WORKS

Document Title: FIGURE 6.A.3
GROUND STABILITY

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LP	18/08/2025	SB	18/08/2025	NL	18/08/2025

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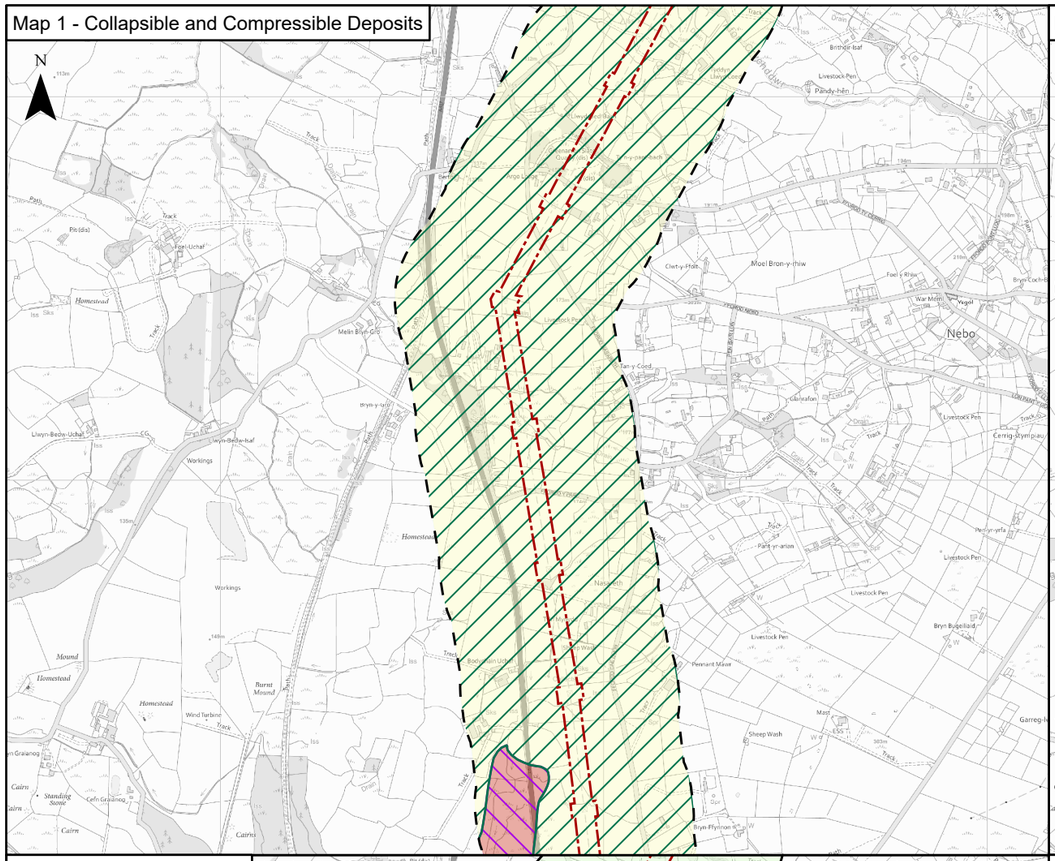
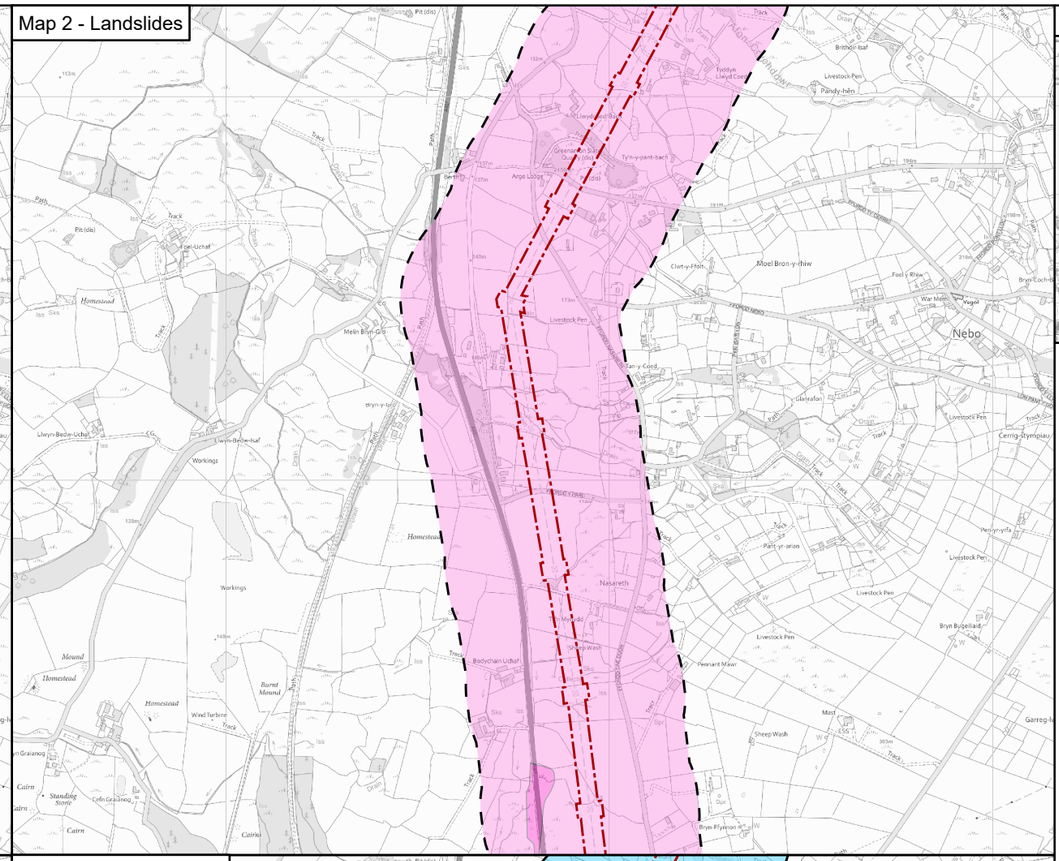
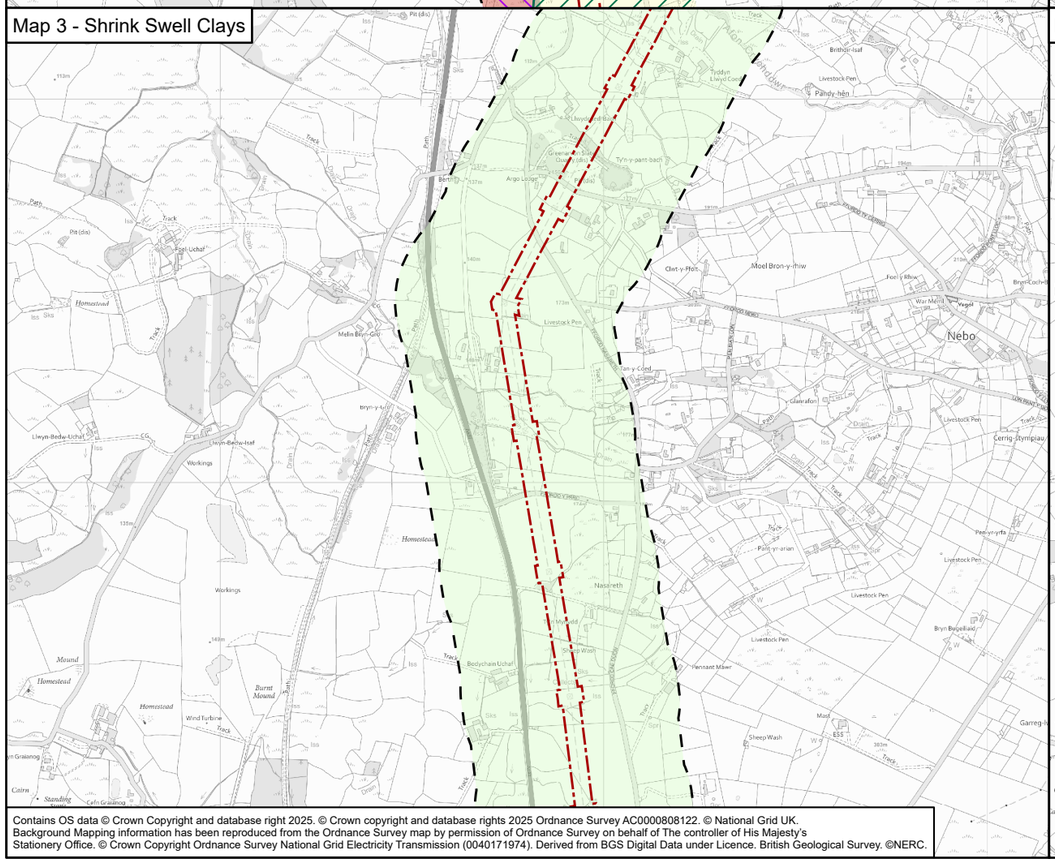
Map 1 - Collapsible and Compressible Deposits



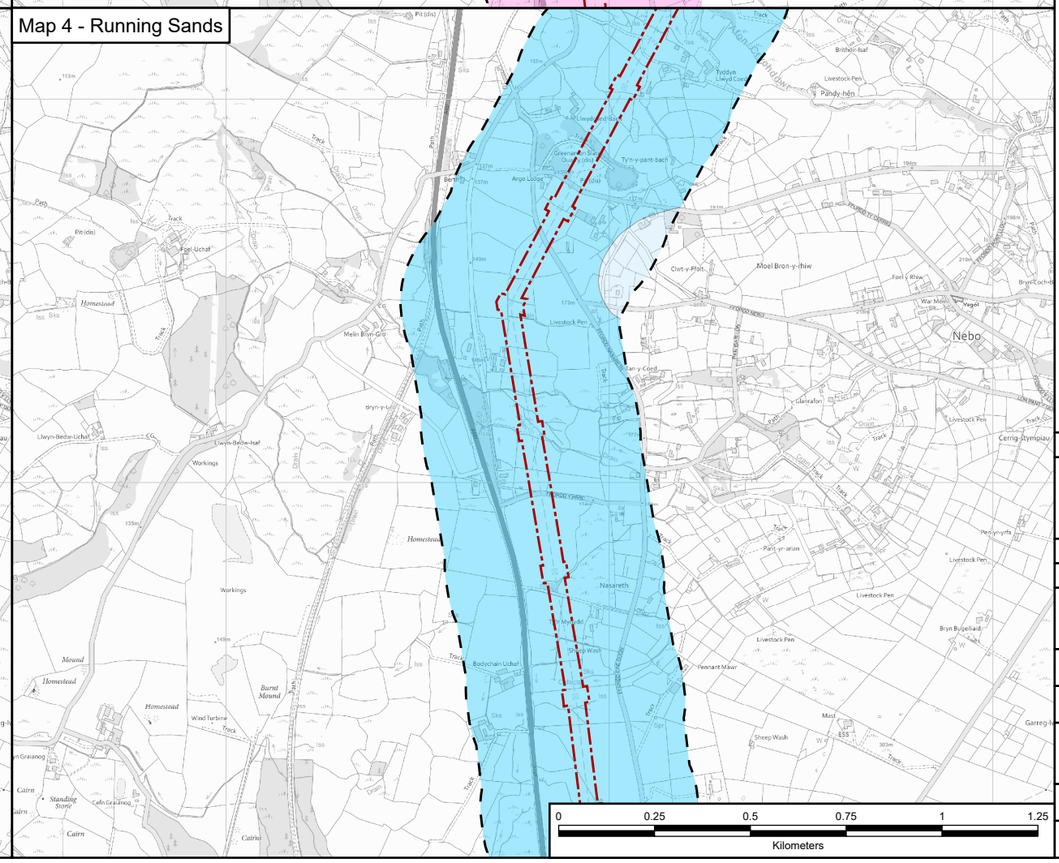
Map 2 - Landslides



Map 3 - Shrink Swell Clays



Map 4 - Running Sands



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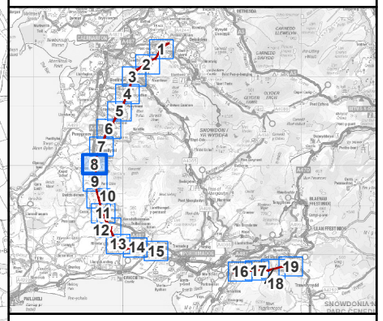
0 0.25 0.5 0.75 1 1.25
Kilometers

WIDER WORKS ROUTE LEGEND



Legend

- Indicative Wider Works Site Boundary
- 250m Buffer of Indicative Wider Works Site Boundary

Collapsible Deposits

- Deposits with potential to collapse when loaded and saturated are believed not to be present.
- Deposits with potential to collapse when loaded and saturated are unlikely to be present.

Compressible Deposits

- Compressible strata are not thought to occur.
- Highly compressible strata present. Significant constraint on land use depending on thickness.

Landslides

- Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.
- Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.

Running Sand

- Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.
- Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

Shrink Swell Clays

- Ground conditions predominantly non-plastic.

NOTES

1. Ground stability data supplied as part of the Groundsure data search request. The search area was 250m from the Works site boundary at the time of the search request.

Rev	Date	Description	GIS	Chk	App
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Document Title: FIGURE 6.A.3
GROUND STABILITY

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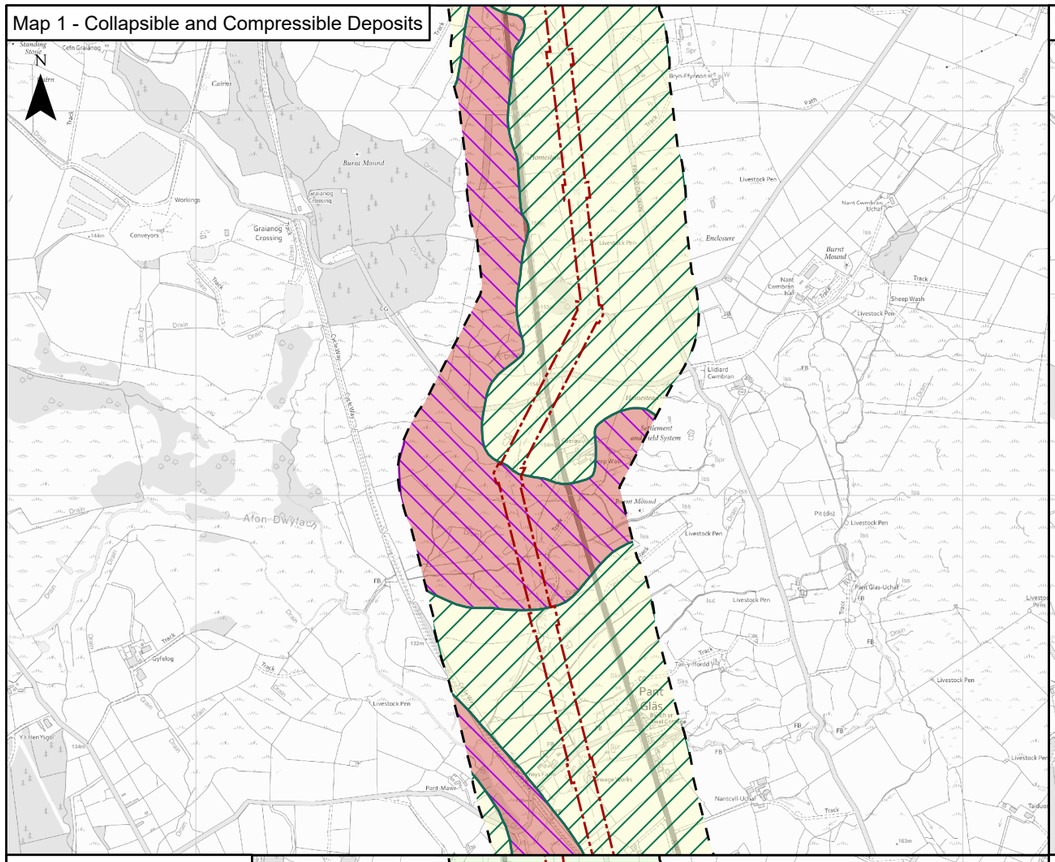
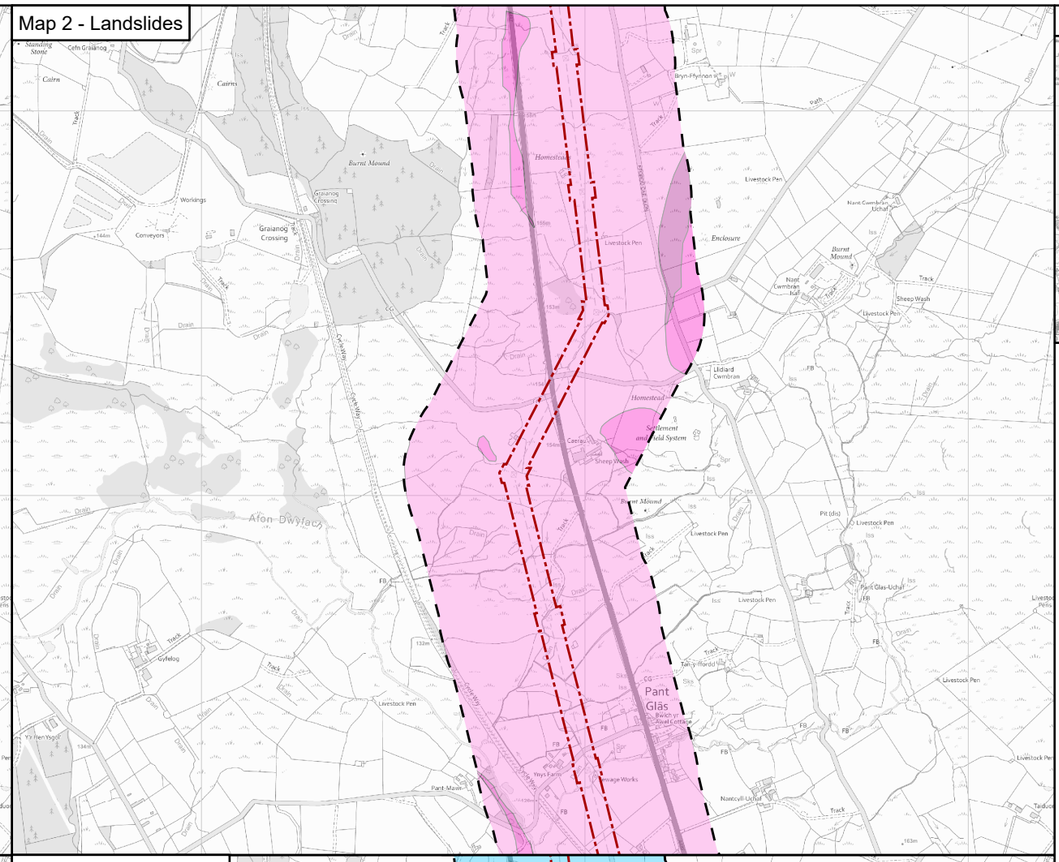
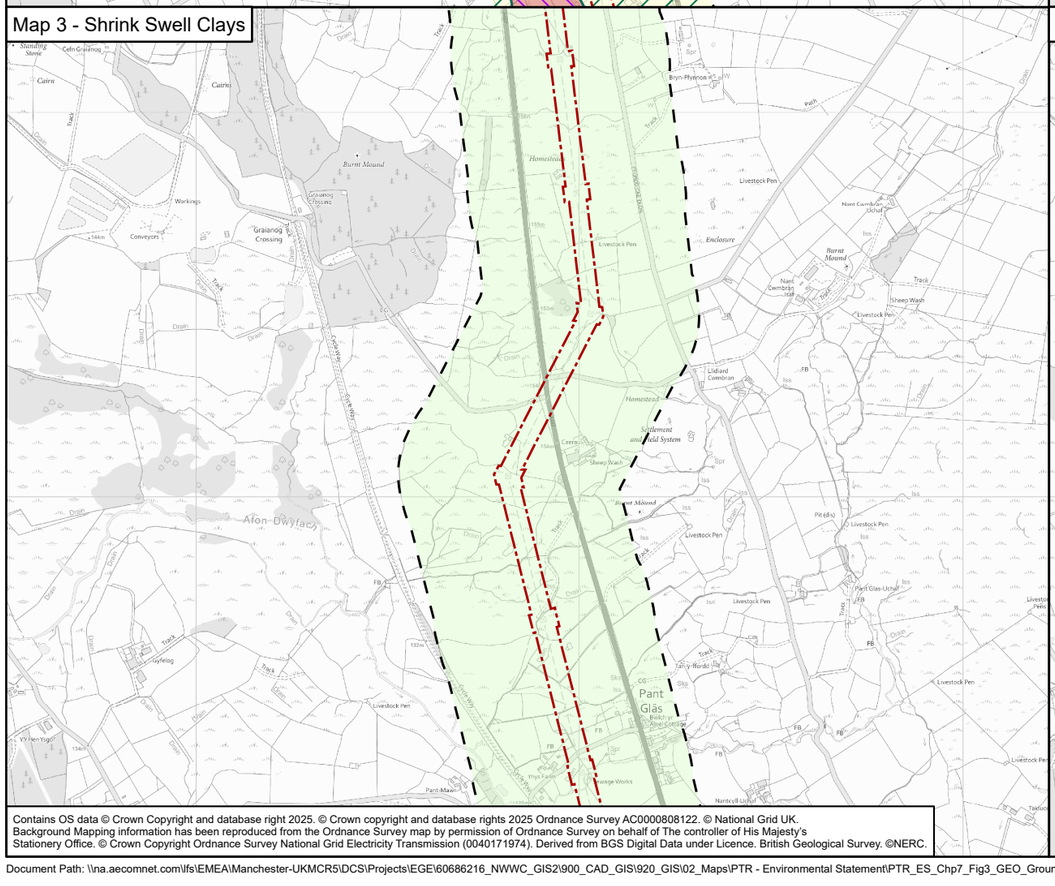
Map 1 - Collapsible and Compressible Deposits



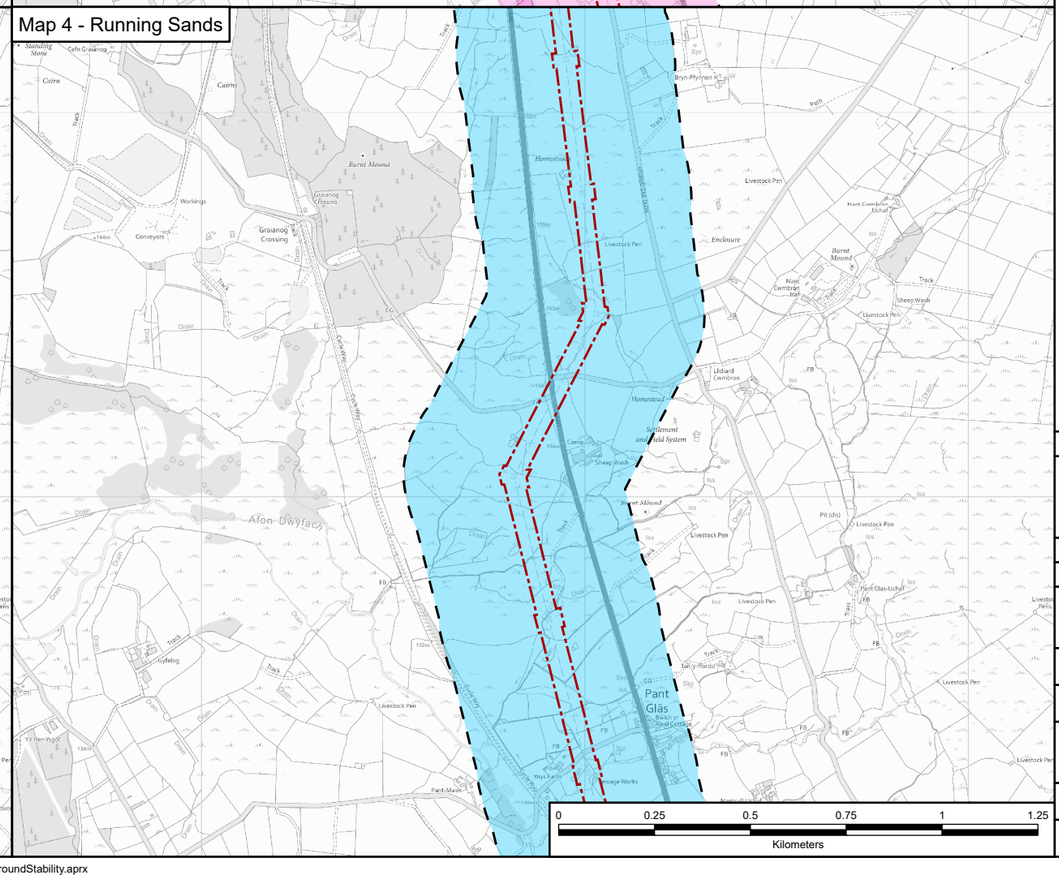
Map 2 - Landslides



Map 3 - Shrink Swell Clays



Map 4 - Running Sands



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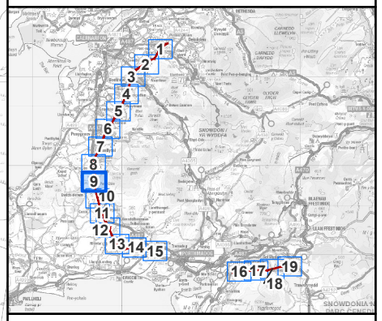
0 0.25 0.5 0.75 1 1.25
Kilometers

WIDER WORKS ROUTE LEGEND



Legend

Indicative Wider Works Site Boundary

250m Buffer of Indicative Wider Works Site Boundary

Collapsible Deposits

Deposits with potential to collapse when loaded and saturated are believed not to be present.

Deposits with potential to collapse when loaded and saturated are unlikely to be present.

Compressible Deposits

Compressible strata are not thought to occur.

Highly compressible strata present. Significant constraint on land use depending on thickness.

Landslides

Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.

Slope instability problems are probably present or have occurred in the past. Land use should consider specifically the stability of the site.

Running Sand

Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

Shrink Swell Clays

Ground conditions predominantly non-plastic.

NOTES

1. Ground stability data supplied as part of the Groundsure data search request. The search area was 250m from the Works site boundary at the time of the search request.

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A	18/08/2025	Environmental Statement	LP	SB	NL

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Scheme: PENTIR TO TRAWSFYNYDD REINFORCEMENT

Volume: VOLUME 8: APPENDICES WIDER WORKS

Document Title: FIGURE 6.A.3 GROUND STABILITY

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Document Type:	Scale:	Format:	Sheets:	Rev:
FIGURE	1:16,000	A3	9 OF 19	A

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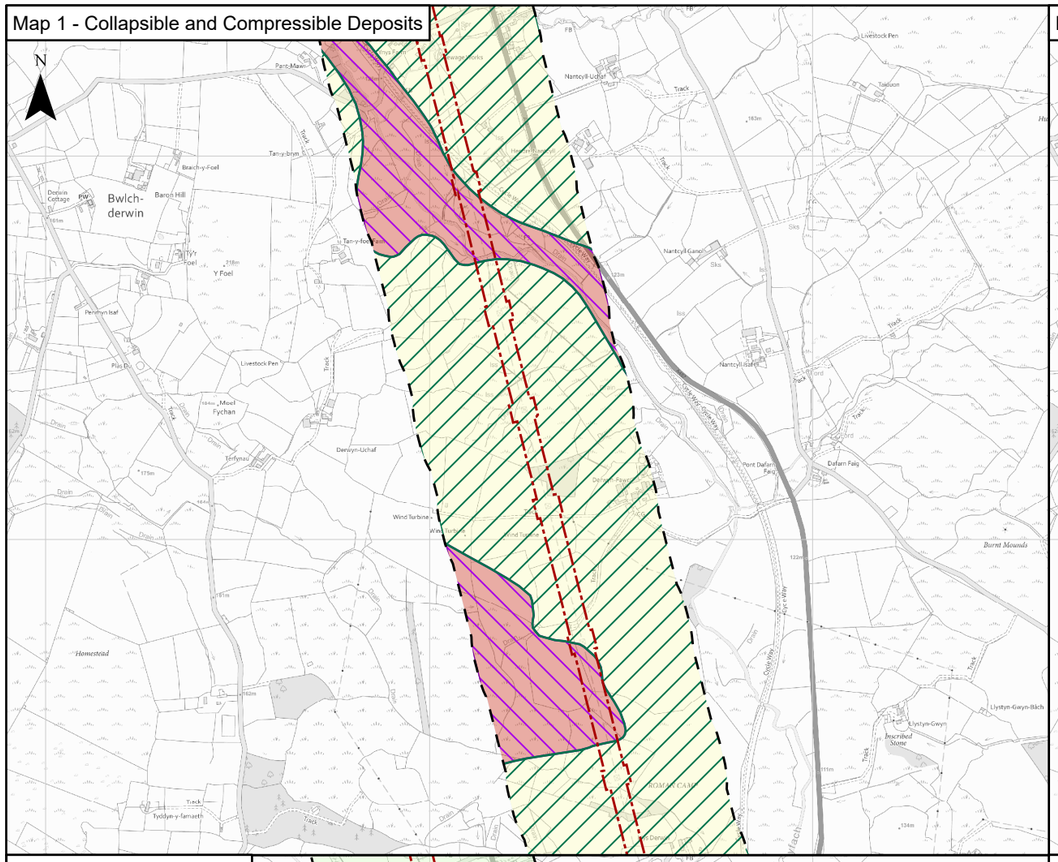
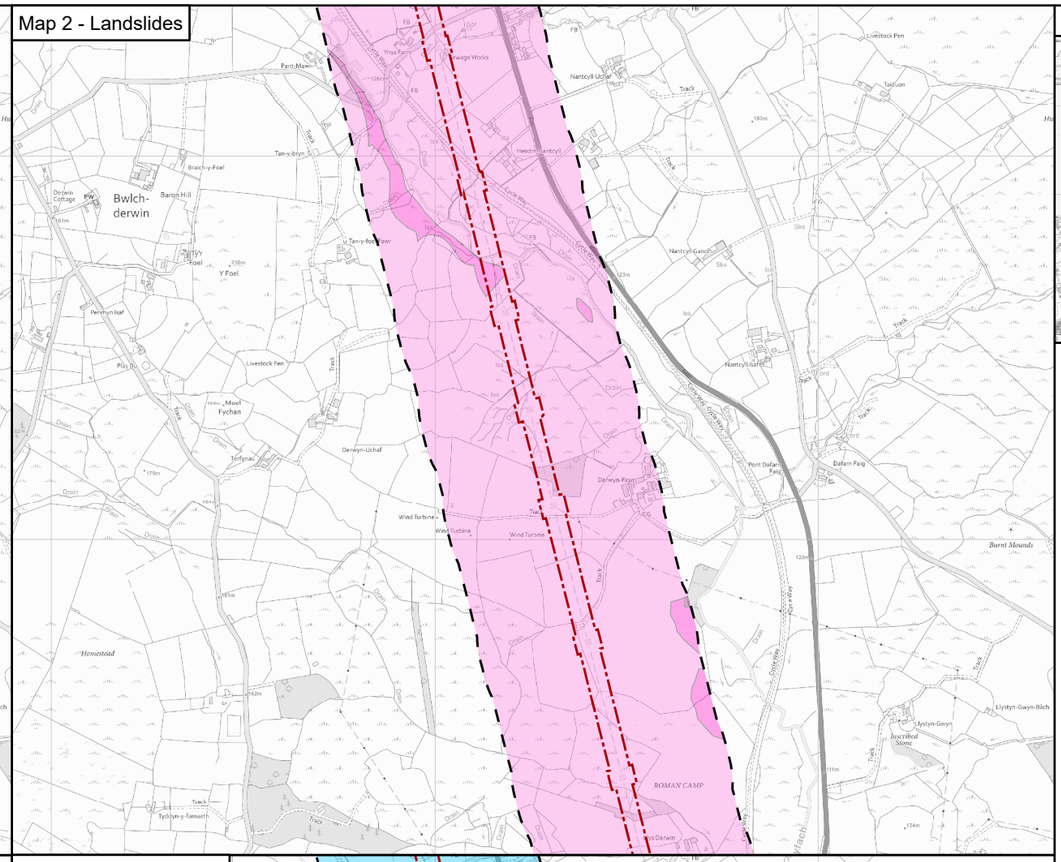
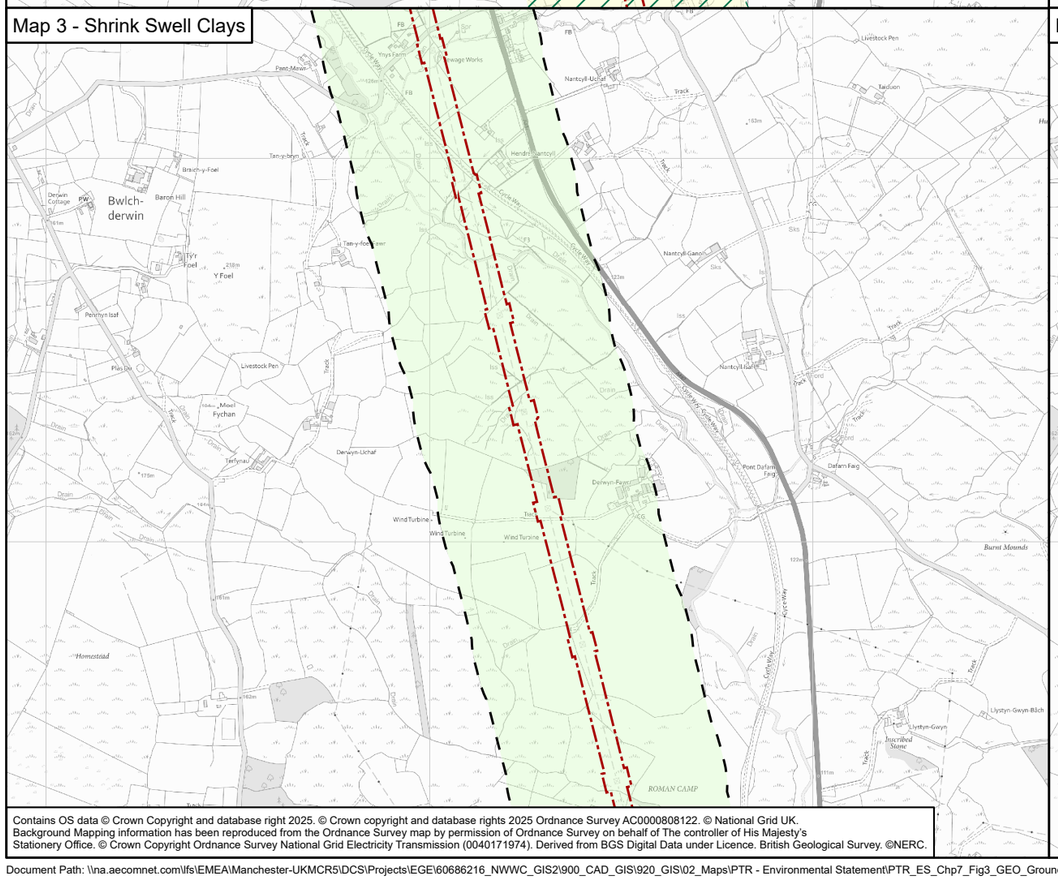
Map 1 - Collapsible and Compressible Deposits



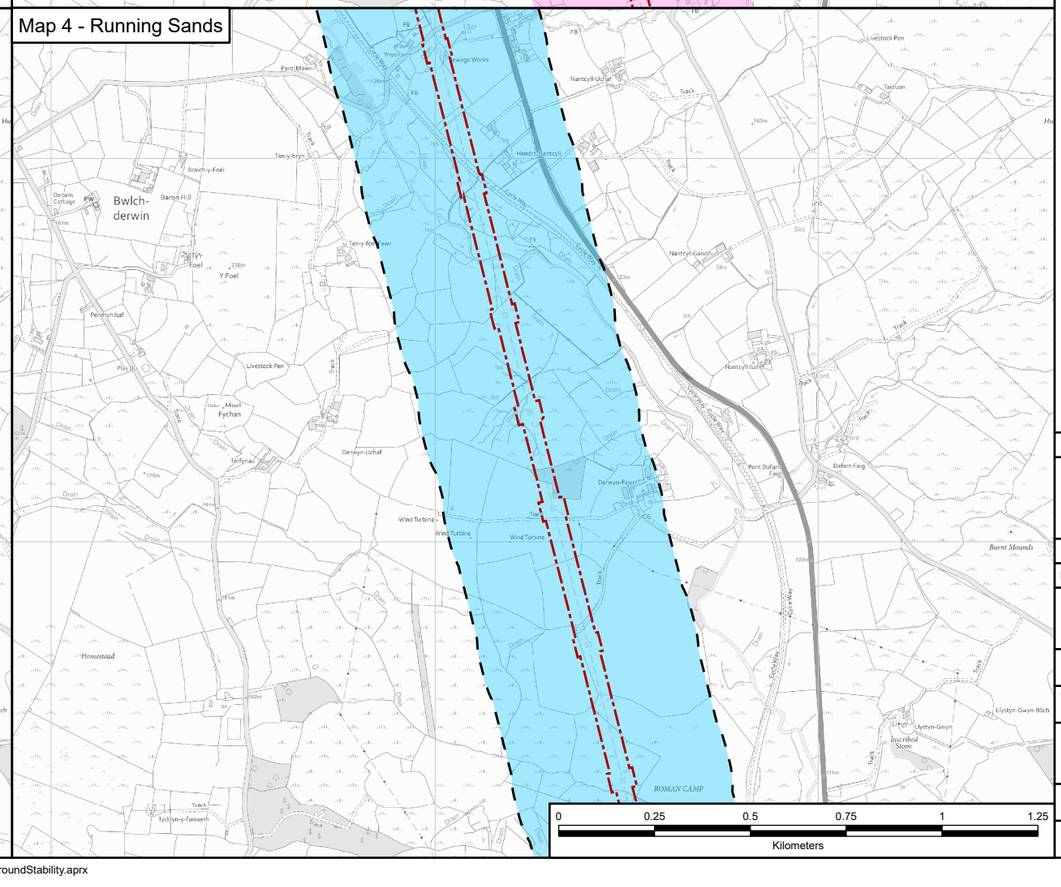
Map 2 - Landslides



Map 3 - Shrink Swell Clays



Map 4 - Running Sands



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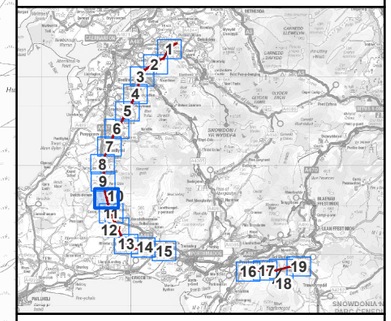
WIDER WORKS ROUTE LEGEND



Legend

- Indicative Wider Works Site Boundary
- 250m Buffer of Indicative Wider Works Site Boundary

Collapsible Deposits

- Deposits with potential to collapse when loaded and saturated are believed not to be present.
- Deposits with potential to collapse when loaded and saturated are unlikely to be present.

Compressible Deposits

- Compressible strata are not thought to occur.
- Highly compressible strata present. Significant constraint on land use depending on thickness.

Landslides

- Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.
- Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
- Slope instability problems are probably present or have occurred in the past. Land use should consider specifically the stability of the site.

Running Sand

- Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

Shrink Swell Clays

- Ground conditions predominantly non-plastic.

NOTES

1. Ground stability data supplied as part of the Groundsure data search request. The search area was 250m from the Works site boundary at the time of the search request.

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WIDER WORKS

Document Title: FIGURE 6.A.3
GROUND STABILITY

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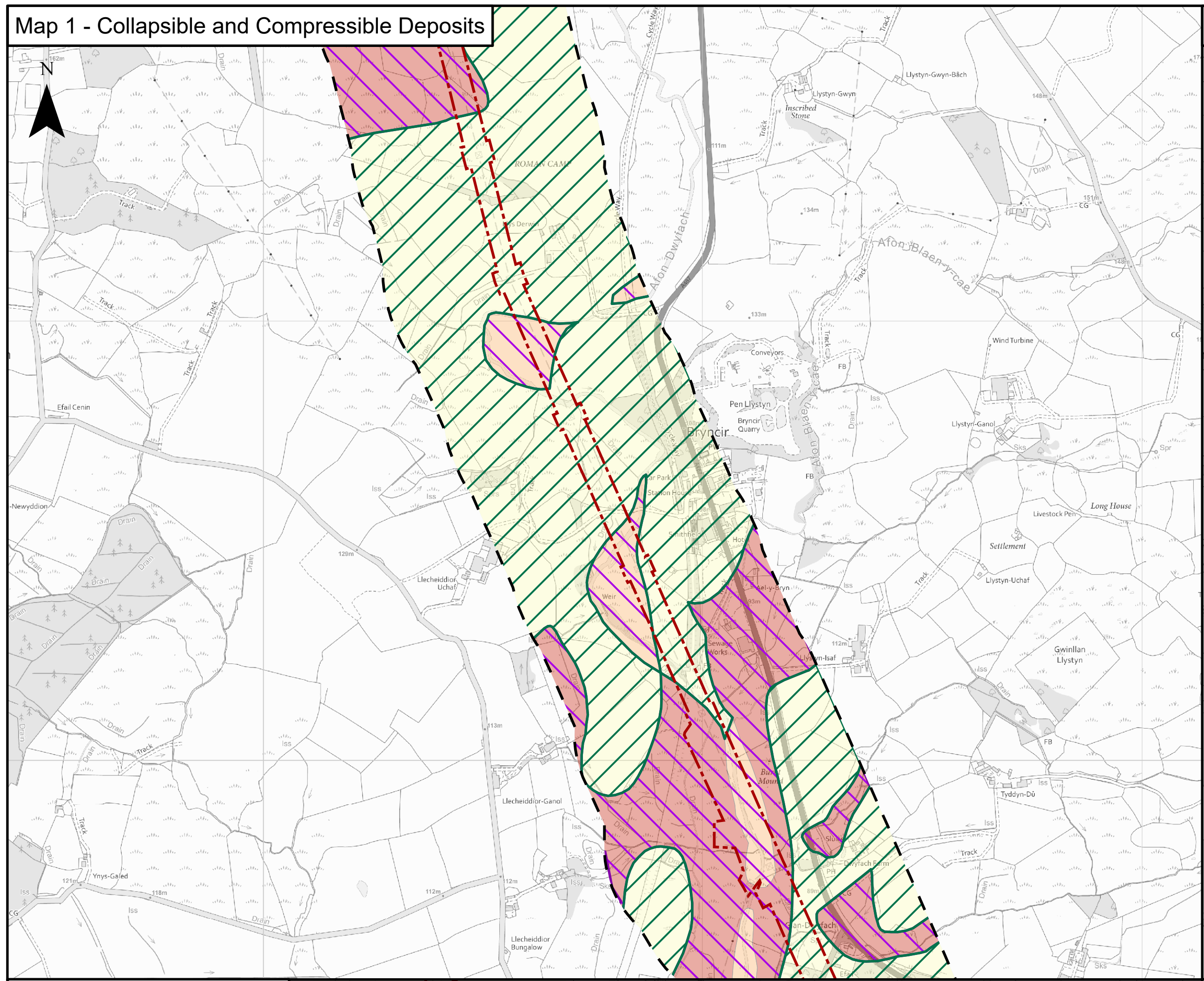
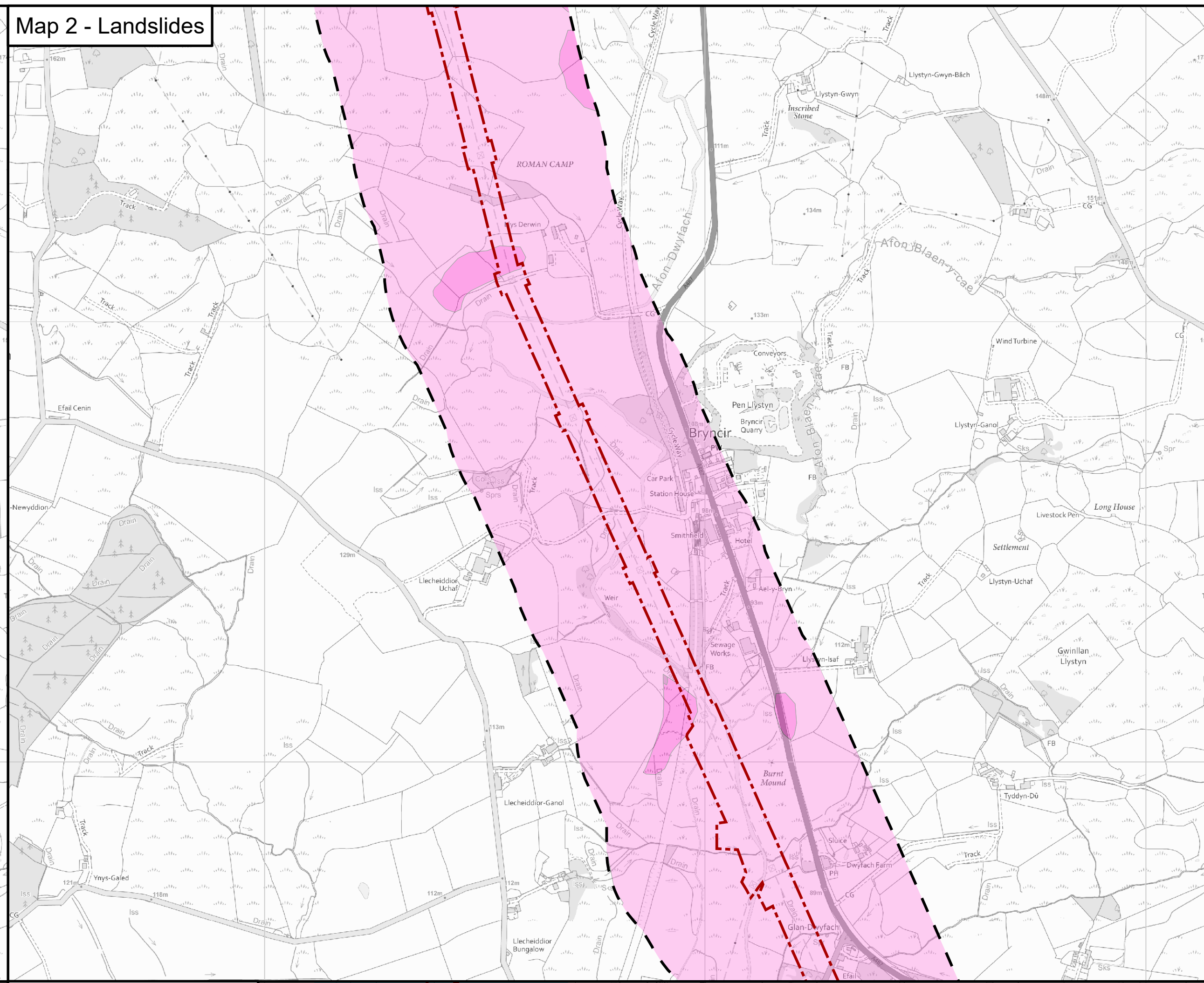
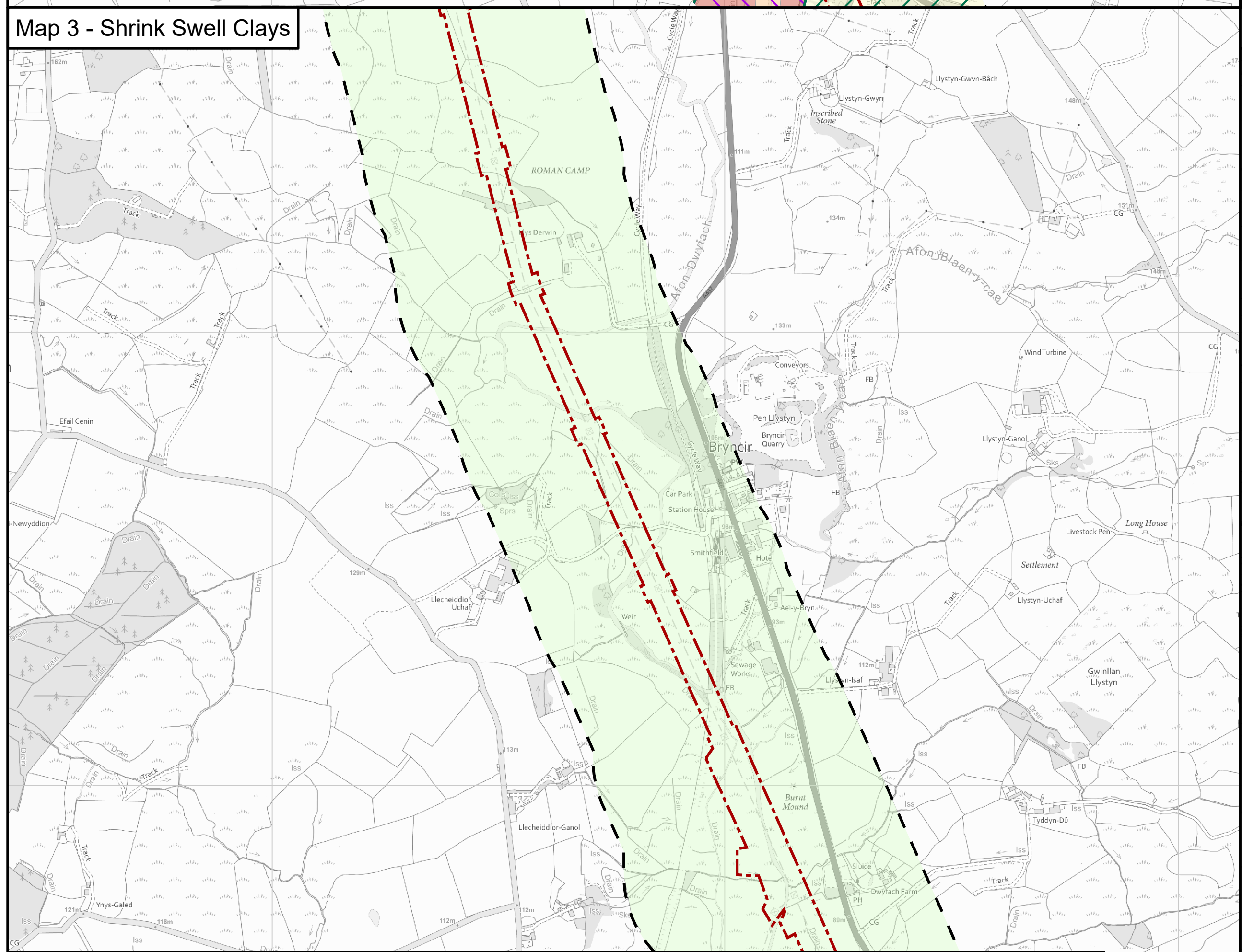
Map 1 - Collapsible and Compressible Deposits



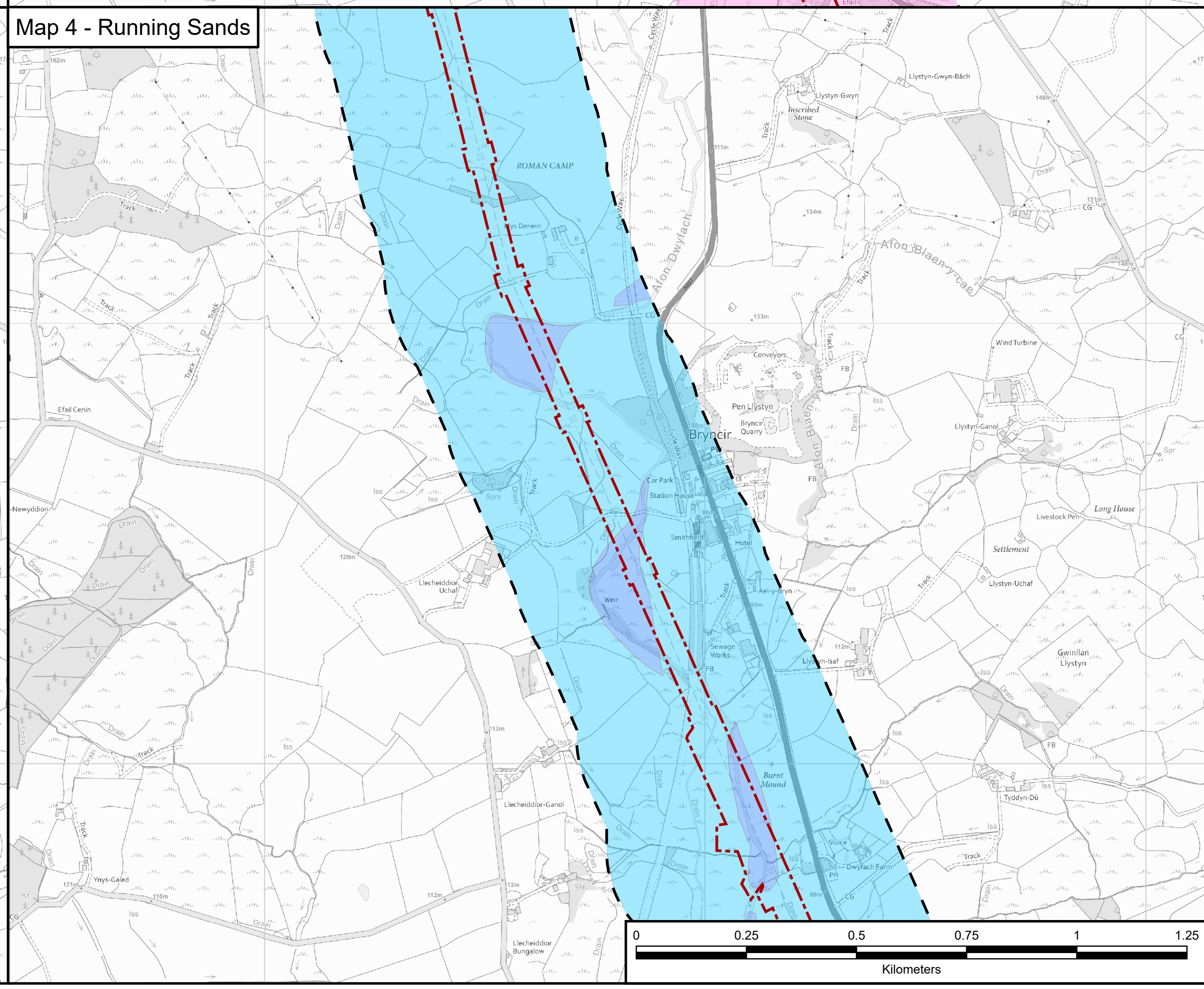
Map 2 - Landslides



Map 3 - Shrink Swell Clays



Map 4 - Running Sands



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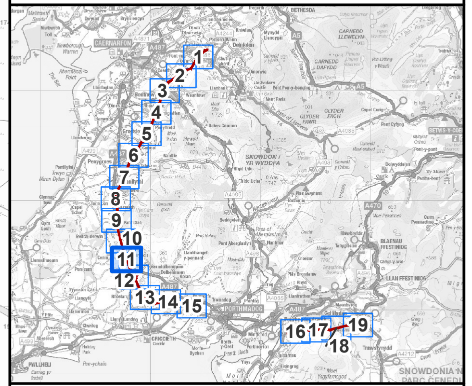
WIDER WORKS ROUTE LEGEND



Legend

- Indicative Wider Works Site Boundary
- 250m Buffer of Indicative Wider Works Site Boundary

Collapsible Deposits

- Deposits with potential to collapse when loaded and saturated are believed not to be present.
- Deposits with potential to collapse when loaded and saturated are unlikely to be present.

Compressible Deposits

- Compressible strata are not thought to occur.
- Compressibility and uneven settlement potential may be present. Land use should consider specifically the compressibility and variability of the site.
- Highly compressible strata present. Significant constraint on land use depending on thickness.

Landslides

- Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.
- Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
- Slope instability problems are probably present or have occurred in the past. Land use should consider specifically the stability of the site.

Running Sand

- Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.
- Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.

Shrink Swell Clays

- Ground conditions predominantly non-plastic.

NOTES

1. Ground stability data supplied as part of the Groundsure data search request. The search area was 250m from the Works site boundary at the time of the search request.

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Volume: VOLUME 8: APPENDICES WIDER WORKS

Document Title: FIGURE 6.A.3 GROUND STABILITY

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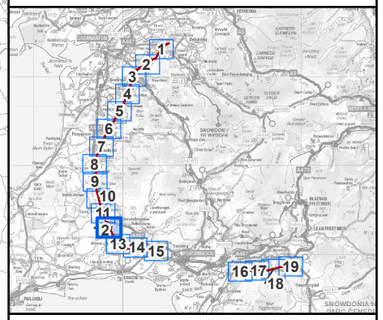
Map 1 - Collapsible and Compressible Deposits

Map 2 - Landslides

Map 3 - Shrink Swell Clays

Map 4 - Running Sands

WIDER WORKS ROUTE LEGEND



Legend

Indicative Wider Works Site Boundary

250m Buffer of Indicative Wider Works Site Boundary

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Shrink Swell Clays

Ground conditions predominantly non-plastic.

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GROUND STABILITY

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0 0.25 0.5 0.75 1 1.25
Kilometers

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