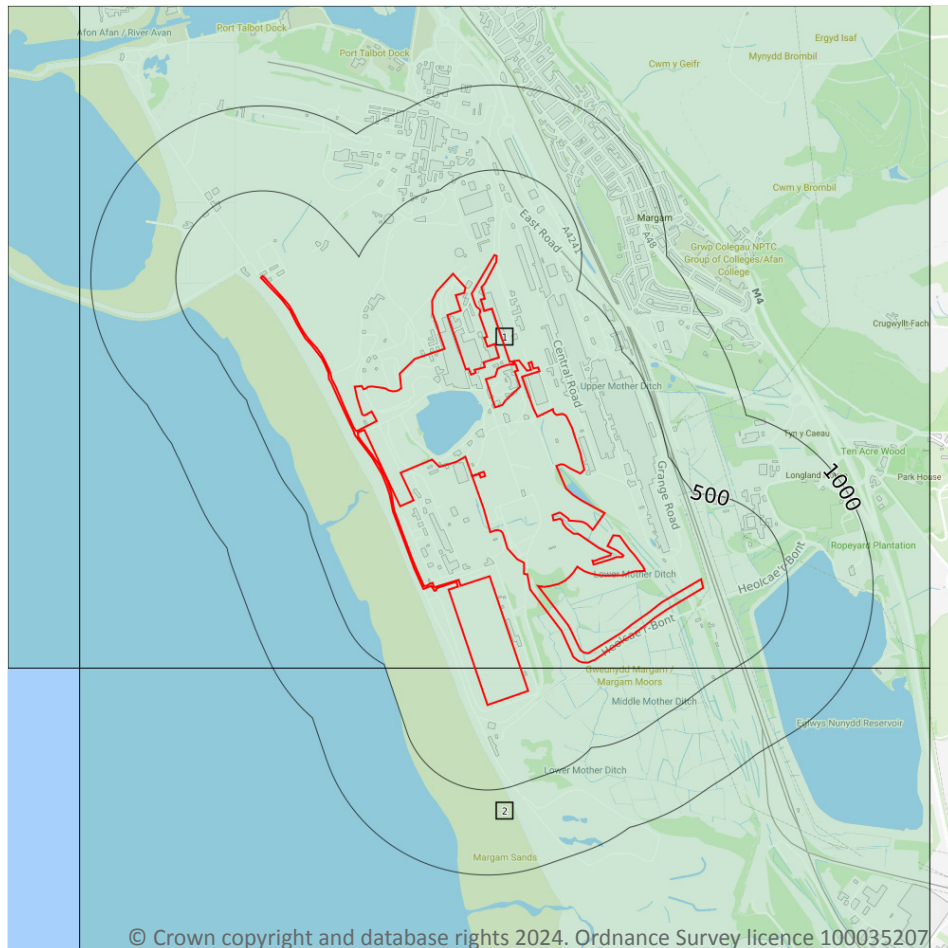


14 Geology 1:10,000 scale - Availability



— Site Outline
Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m

2

An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

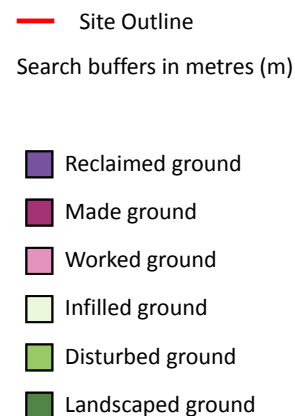
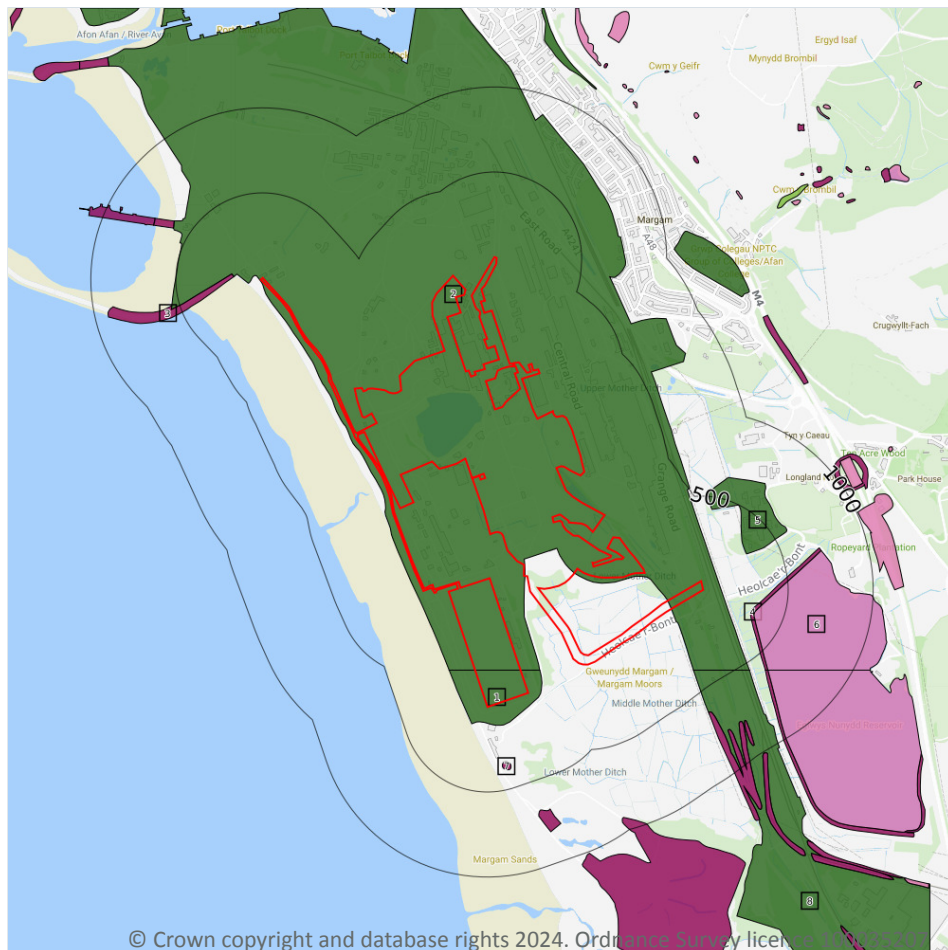
Features are displayed on the Geology 1:10,000 scale - Availability map on [page 196](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	SS78NE
2	On site	Full	Full	Full	No coverage	SS78SE

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Artificial and made ground



14.2 Artificial and made ground (10k)

Records within 500m

8

Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on [page 197 >](#)

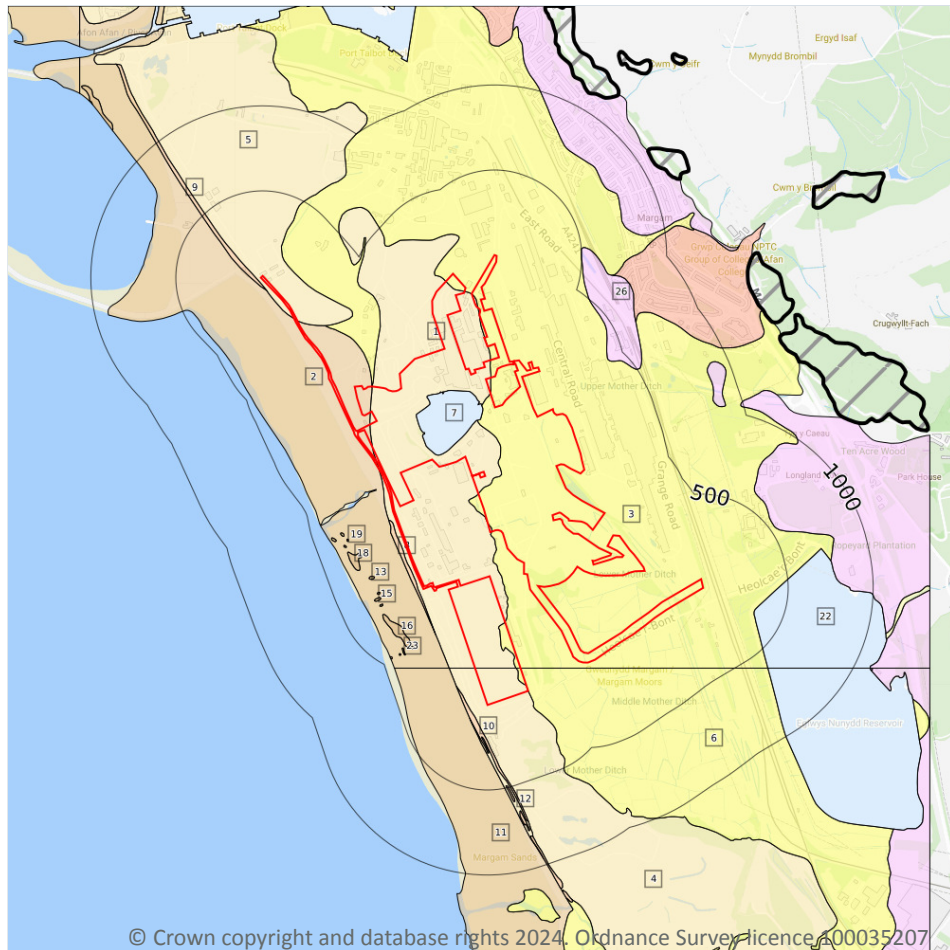
ID	Location	LEX Code	Description	Rock description
1	On site	LSGR-UNKNOWN	Landscaped Ground (Undivided)	Unknown/unclassified Entry
2	On site	LSGR-UNKNOWN	Landscaped Ground (Undivided)	Unknown/unclassified Entry
3	159m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
4	308m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

ID	Location	LEX Code	Description	Rock description
5	311m E	LSGR-UNKNOWN	Landscaped Ground (Undivided)	Unknown/unclassified Entry
6	331m SE	WGR-VOID	Worked Ground (Undivided)	Void
7	338m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
8	373m SE	LSGR-UNKNOWN	Landscaped Ground (Undivided)	Unknown/unclassified Entry

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (10k)

Superficial geology (10k)
Please see table for more details.

14.3 Superficial geology (10k)

Records within 500m

28

Superficial geological deposits at 1:10,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:10,000 scale - Superficial map on [page 199](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	BSA-S	Blown Sand - Sand	Sand
2	On site	BCHD-XSV	Beach Deposits - Sand And Gravel	Sand And Gravel
3	On site	TFD-XCZS	Tidal Flat Deposits - Clay, Silt And Sand	Clay, Silt And Sand
4	On site	BSA-S	Blown Sand - Sand	Sand



ID	Location	LEX Code	Description	Rock description
5	On site	BSA-S	Blown Sand - Sand	Sand
6	On site	TFD-XCZS	Tidal Flat Deposits - Clay, Silt And Sand	Clay, Silt And Sand
7	On site	SUPNM-UNKNOWN	Superficial Theme Not Mapped [for Digital Map Use Only] - Unknown/unclassified Entry	Unknown/unclassified Entry
8	21m SW	STOB-V	Storm Beach Deposits - Gravel	Gravel
9	22m NW	STOB-V	Storm Beach Deposits - Gravel	Gravel
10	100m S	STOB-V	Storm Beach Deposits - Gravel	Gravel
11	128m S	BCHD-XSV	Beach Deposits - Sand And Gravel	Sand And Gravel
12	133m S	BSA-S	Blown Sand - Sand	Sand
13	237m SW	SUF-P	Submerged Forest - Peat	Peat
14	241m SW	SUF-P	Submerged Forest - Peat	Peat
15	251m SW	SUF-P	Submerged Forest - Peat	Peat
16	255m SW	SUF-P	Submerged Forest - Peat	Peat
17	255m SW	SUF-P	Submerged Forest - Peat	Peat
18	263m SW	SUF-P	Submerged Forest - Peat	Peat
19	305m W	SUF-P	Submerged Forest - Peat	Peat
20	318m W	SUF-P	Submerged Forest - Peat	Peat
21	330m SW	SUF-P	Submerged Forest - Peat	Peat
22	331m SE	SUPNM-UNKNOWN	Superficial Theme Not Mapped [for Digital Map Use Only] - Unknown/unclassified Entry	Unknown/unclassified Entry
23	362m SW	SUF-P	Submerged Forest - Peat	Peat
24	373m W	SUF-P	Submerged Forest - Peat	Peat
25	387m SW	SUF-P	Submerged Forest - Peat	Peat
26	407m NE	GFDUD-XSV	Glaciofluvial Deposits, Devensian - Sand And Gravel	Sand And Gravel
27	442m SW	SUF-P	Submerged Forest - Peat	Peat
28	488m S	STOB-V	Storm Beach Deposits - Gravel	Gravel

This data is sourced from the British Geological Survey.



14.4 Landslip (10k)

Records within 500m

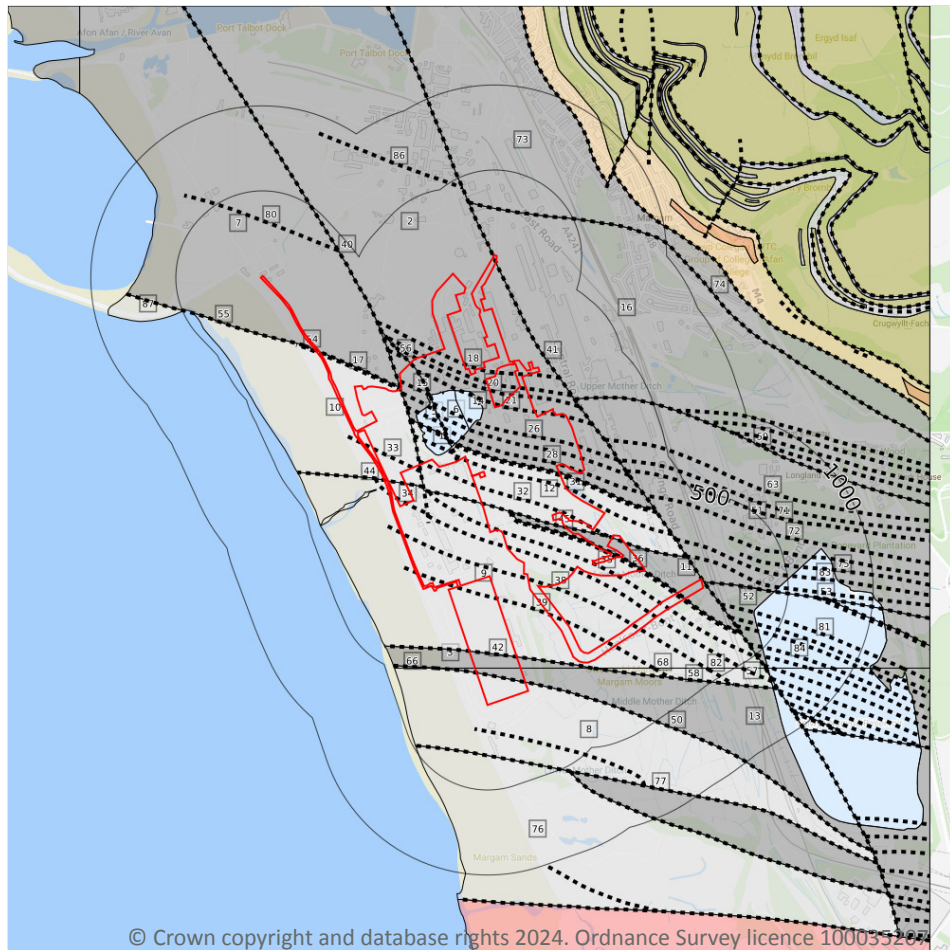
0

Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock



- Site Outline
- Search buffers in metres (m)
- Bedrock faults and other linear features (10k)
- Bedrock geology (10k)
Please see table for more details.

14.5 Bedrock geology (10k)

Records within 500m

25

Bedrock geology at 1:10,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 202](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	BEDNM-UKNOWN	Bedrock Theme Not Mapped [for Digital Map Use Only] - Unknown/unclassified Entry	No Details
2	On site	SWMCM-MDSS	South Wales Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age



ID	Location	LEX Code	Description	Rock age
3	On site	SWMCM-MDSS	South Wales Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
4	On site	BEDNM-UNKNOWN	Bedrock Theme Not Mapped [for Digital Map Use Only] - Unknown/unclassified Entry	No Details
5	On site	BEDNM-UNKNOWN	Bedrock Theme Not Mapped [for Digital Map Use Only] - Unknown/unclassified Entry	No Details
6	On site	BEDNM-UNKNOWN	Bedrock Theme Not Mapped [for Digital Map Use Only] - Unknown/unclassified Entry	No Details
7	On site	SWMCM-MDSS	South Wales Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
8	On site	SWLCM-MDSS	South Wales Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
9	On site	SWLCM-MDSS	South Wales Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
10	On site	SWLCM-MDSS	South Wales Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
11	On site	SWMCM-MDSS	South Wales Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
12	On site	SWLCM-MDSS	South Wales Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
13	On site	SWMCM-MDSS	South Wales Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
14	On site	BEDNM-UNKNOWN	Bedrock Theme Not Mapped [for Digital Map Use Only] - Unknown/unclassified Entry	No Details
15	On site	SWMCM-MDSS	South Wales Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
16	On site	SWMCM-MDSS	South Wales Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
51	4m SE	SWMCM-MDSS	South Wales Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
52	13m SE	SWMCM-MDSS	South Wales Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
57	41m SE	SWLCM-MDSS	South Wales Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
66	220m S	SWLCM-MDSS	South Wales Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age



ID	Location	LEX Code	Description	Rock age
73	270m N	SWMCM-MDSS	South Wales Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
76	293m S	SWLCM-MDSS	South Wales Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
81	331m SE	BEDNM-UNKNOWN	Bedrock Theme Not Mapped [for Digital Map Use Only] - Unknown/unclassified Entry	No Details
83	418m E	BEDNM-UNKNOWN	Bedrock Theme Not Mapped [for Digital Map Use Only] - Unknown/unclassified Entry	No Details
87	490m NW	SWLCM-MDSS	South Wales Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m	62
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Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 202](#) >

ID	Location	Category	Description
17	On site	ROCK	Coal seam, inferred ()
18	On site	ROCK	Coal seam, inferred (2 FT 9)
19	On site	ROCK	Coal seam, inferred (U 4 FT)
20	On site	ROCK	Coal seam, inferred (L 4 FT)
21	On site	ROCK	Coal seam, inferred (6 FT)
22	On site	ROCK	Coal seam, inferred (U 9 FT)
23	On site	ROCK	Coal seam, inferred (L 9 FT)
24	On site	ROCK	Coal seam, inferred (BUTE)
25	On site	ROCK	Coal seam, inferred ()
26	On site	ROCK	Coal seam, inferred (U 9 FT)
27	On site	ROCK	Coal seam, inferred (L 9 FT)
28	On site	ROCK	Coal seam, inferred (BUTE)



ID	Location	Category	Description
29	On site	ROCK	Coal seam, inferred ()
30	On site	ROCK	Coal seam, inferred (YARD)
31	On site	ROCK	Coal seam, inferred ()
32	On site	ROCK	Coal seam, inferred (M 7 FT)
33	On site	ROCK	Coal seam, inferred (CONJECTURAL POSITION OF U 5 FT)
34	On site	ROCK	Coal seam, inferred ()
35	On site	ROCK	Coal seam, inferred (CONJECTURAL POSITION OF YARD)
36	On site	ROCK	Coal seam, inferred ()
37	On site	ROCK	Coal seam, inferred (CONJECTURAL POSITION OF M 7 FT)
38	On site	ROCK	Coal seam, inferred (CONJECTURAL POSITION OF U 5 FT)
39	On site	ROCK	Coal seam, inferred (CONJECTURAL POSITION OF GELLIDEG)
40	On site	FAULT	Normal fault, inferred
41	On site	FAULT	Normal fault, inferred
42	On site	FAULT	Normal fault, inferred
43	On site	FAULT	Normal fault, observed
44	On site	FAULT	Normal fault, inferred
45	On site	FAULT	Normal fault, inferred
46	On site	FOSSIL_HORIZON	Fossil horizon, marine band (CONJECTURAL POSITION OF AMMAN MARINE BAND)
47	On site	FOSSIL_HORIZON	Fossil horizon, marine band (AMMAN MARINE BAND)
48	On site	FOSSIL_HORIZON	Fossil horizon, marine band (AMB)
49	On site	FOSSIL_HORIZON	Fossil horizon, marine band (CONJECTURAL POSITION OF AMMAN MARINE BAND)
50	On site	FOSSIL_HORIZON	Fossil horizon, marine band (AMMAN MARINE BAND)
53	13m SE	FAULT	Normal fault, inferred
54	33m NW	FOSSIL_HORIZON	Fossil horizon, marine band ()
55	36m NW	FOSSIL_HORIZON	Fossil horizon, marine band ()
56	39m NW	ROCK	Coal seam, inferred (6 FT)
58	41m SE	FAULT	Normal fault, inferred
59	109m NE	FAULT	Normal fault, inferred

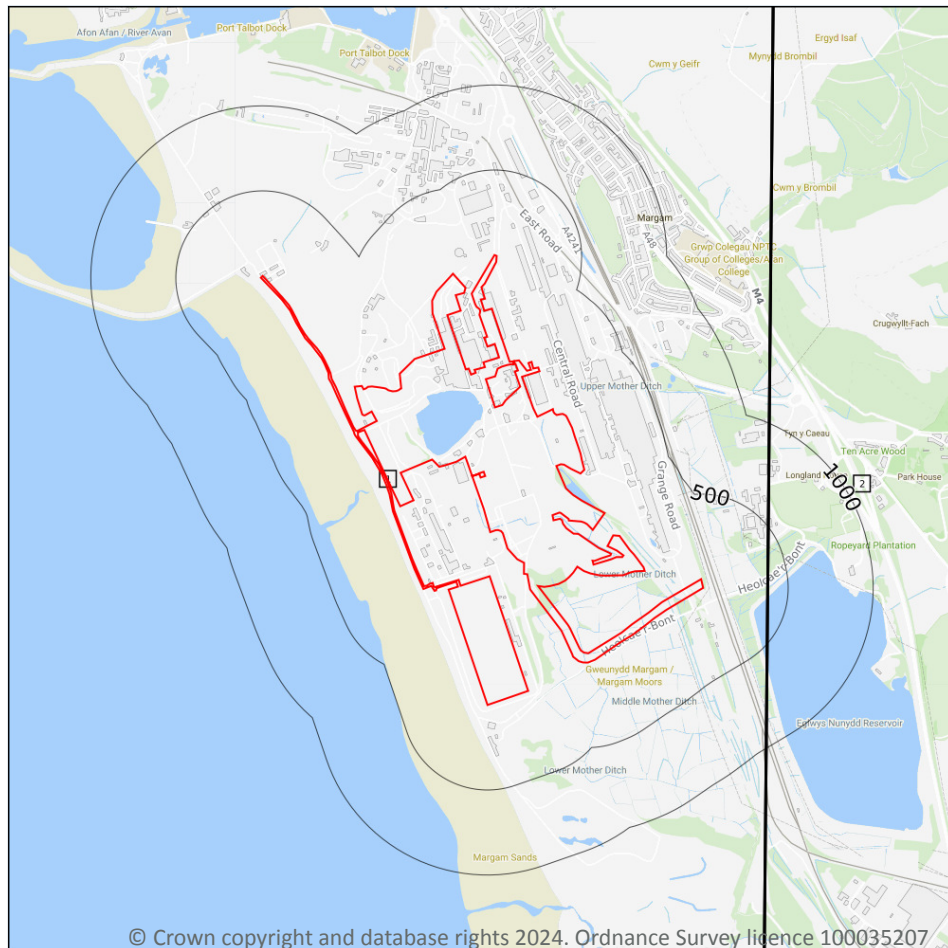


ID	Location	Category	Description
60	116m E	ROCK	Coal seam, inferred (CONJECTURAL POSITION OF U 9 FT)
61	141m SE	ROCK	Coal seam, inferred (CONJECTURAL POSITION OF 2 FT 9)
62	153m S	ROCK	Coal seam, inferred (GELLIDEG)
63	160m E	ROCK	Coal seam, inferred (CONJECTURAL POSITION OF 2 FT 9)
64	185m E	ROCK	Coal seam, inferred (CONJECTURAL POSITION OF U 9 FT)
65	211m E	ROCK	Coal seam, inferred (CONJECTURAL POSITION OF U 4 FT)
67	220m S	FOSSIL_HORIZON	Fossil horizon, marine band (AMMAN MARINE BAND)
68	233m SE	ROCK	Coal seam, inferred (CONJECTURAL POSITION OF GELLIDEG)
69	234m SE	ROCK	Coal seam, inferred (CONJECTURAL POSITION OF U 4 FT)
70	235m SE	ROCK	Coal seam, inferred ()
71	245m E	ROCK	Coal seam, inferred (CONJECTURAL POSITION OF L 4 FT)
72	259m E	ROCK	Coal seam, inferred (CONJECTURAL POSITION OF 6 FT)
74	270m N	FAULT	Normal fault, inferred
75	272m E	ROCK	Coal seam, inferred (CONJECTURAL POSITION OF RV)
77	293m S	FAULT	Normal fault, inferred
78	295m SE	ROCK	Coal seam, inferred (CONJECTURAL POSITION OF L 4 FT)
79	296m E	ROCK	Coal seam, inferred (CONJECTURAL POSITION OF Ca)
80	303m NW	ROCK	Coal seam, inferred (CONJECTURAL POSITION OF 2 FT-9)
82	415m SE	ROCK	Coal seam, inferred (CONJECTURAL POSITION OF U 5 FT)
84	425m SE	ROCK	Coal seam, inferred (CONJECTURAL POSITION OF 6 FT)
85	427m SE	ROCK	Coal seam, inferred ()
86	439m N	FAULT	Normal fault, inferred

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



— Site Outline
Search buffers in metres (m)

☐ Geological map tile

15.1 50k Availability

Records within 500m

2

An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme. Where 50k data is not available, this area has been filled in with 625k scale data.

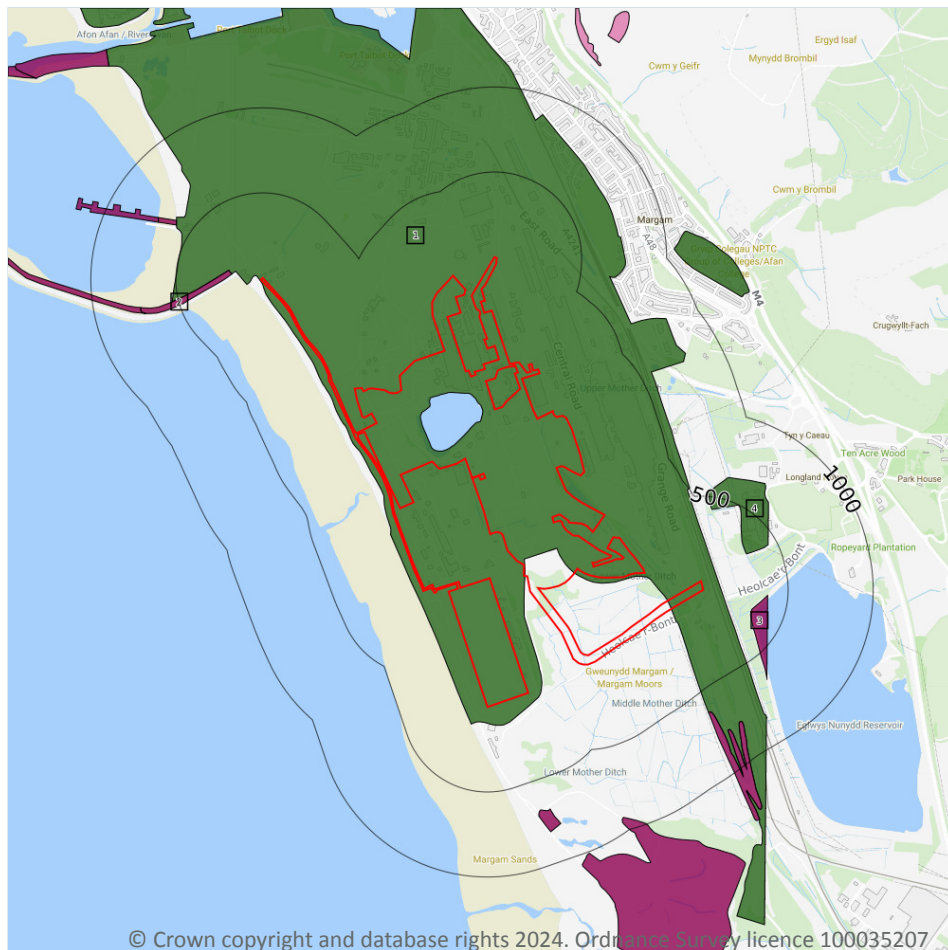
Features are displayed on the Geology 1:50,000 scale - Availability map on [page 207](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW247_swansea_v4
2	380m E	No coverage	Full	Full	Full	EW248_pontypridd_v4

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Artificial and made ground



- Site Outline**
- Search buffers in metres (m)
- Made ground
 - Worked ground
 - Infilled ground
 - Disturbed ground
 - Landscaped ground

15.2 Artificial and made ground (50k)

Records within 500m

4

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on [page 208 >](#)

ID	Location	LEX Code	Description	Rock description
1	On site	LSGR-ARTGR	LANDSCAPED GROUND (UNDIVIDED)	ARTIFICIALLY MODIFIED GROUND
2	174m NW	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
3	308m SE	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
4	311m E	LSGR-ARTGR	LANDSCAPED GROUND (UNDIVIDED)	ARTIFICIALLY MODIFIED GROUND



This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

2

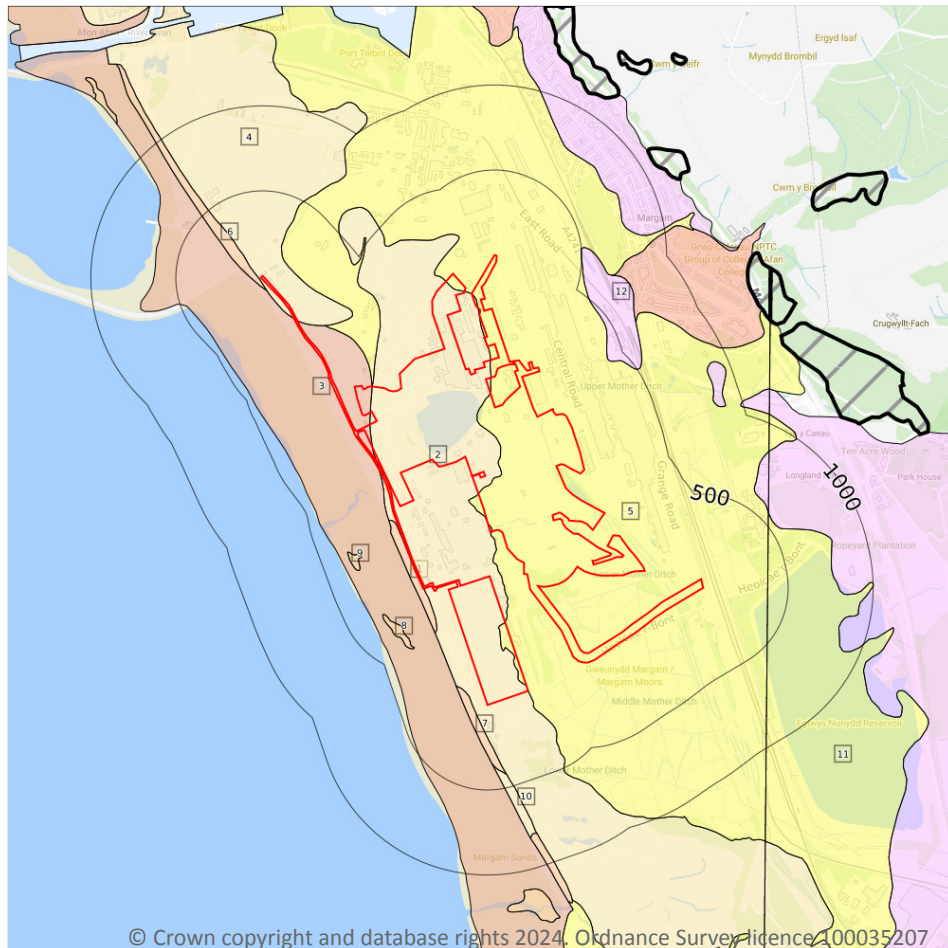
A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	Very High	Low
On site	Mixed	Very High	Low

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



- Site Outline
- Search buffers in metres (m)
- Landslip (50k)
- Superficial geology (50k)
Please see table for more details.

15.4 Superficial geology (50k)

Records within 500m

12

Superficial geological deposits at 1:50,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:50,000 scale - Superficial map on [page 210](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	STOB-V	STORM BEACH DEPOSITS	GRAVEL
2	On site	BSA-S	BLOWN SAND	SAND
3	On site	MBD-XSV	MARINE BEACH DEPOSITS	SAND AND GRAVEL
4	On site	BSA-S	BLOWN SAND	SAND



ID	Location	LEX Code	Description	Rock description
5	On site	TFD-XCZS	TIDAL FLAT DEPOSITS	CLAY, SILT AND SAND
6	12m NW	STOB-V	STORM BEACH DEPOSITS	GRAVEL
7	82m S	STOB-V	STORM BEACH DEPOSITS	GRAVEL
8	255m SW	RSBD-XSV	RAISED STORM BEACH DEPOSITS	SAND AND GRAVEL
9	263m SW	RSBD-XSV	RAISED STORM BEACH DEPOSITS	SAND AND GRAVEL
10	350m S	BSA-S	BLOWN SAND	SAND
11	379m E	TFD-XCZS	TIDAL FLAT DEPOSITS	CLAY, SILT AND SAND
12	407m NE	GFICD-XSV	GLACIOFLUVIAL ICE CONTACT DEPOSITS, DEVENSIAN	SAND AND GRAVEL

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	8
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A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any superficial deposits (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Intergranular	Very High	High
On site	Intergranular	High	High
On site	Intergranular	High	High
On site	Intergranular	High	High
On site	Intergranular	Moderate	Very Low
On site	Intergranular	Moderate	Very Low
On site	Intergranular	Very High	Very High
11m NW	Intergranular	Very High	Very High

This data is sourced from the British Geological Survey.



15.6 Landslip (50k)

Records within 500m

0

Mass movement deposits on BGS geological maps at 1:50,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

Records within 50m

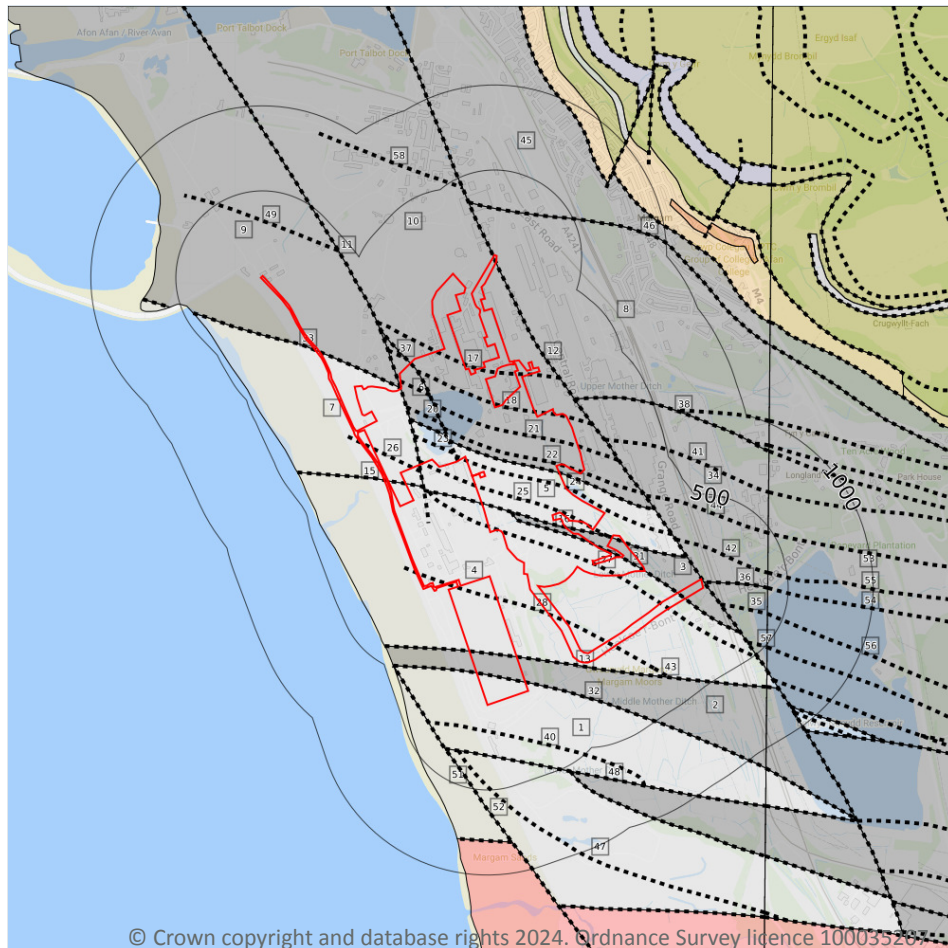
0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any landslip deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

---- Bedrock faults and other linear features (50k)

Bedrock geology (50k)
Please see table for more details.

15.8 Bedrock geology (50k)

Records within 500m

16

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on [page 213](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	SWLCM-MDSS	SOUTH WALES LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
2	On site	SWMCM-MDSS	SOUTH WALES MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN



ID	Location	LEX Code	Description	Rock age
3	On site	SWMCM-MDSS	SOUTH WALES MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
4	On site	SWLCM-MDSS	SOUTH WALES LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
5	On site	SWLCM-MDSS	SOUTH WALES LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
6	On site	SWMCM-MDSS	SOUTH WALES MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
7	On site	SWLCM-MDSS	SOUTH WALES LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
8	On site	SWMCM-MDSS	SOUTH WALES MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
9	On site	SWMCM-MDSS	SOUTH WALES MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
10	On site	SWMCM-MDSS	SOUTH WALES MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
34	4m SE	SWMCM-MDSS	SOUTH WALES MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
35	13m SE	SWMCM-MDSS	SOUTH WALES MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
45	270m N	SWMCM-MDSS	SOUTH WALES MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
47	293m S	SWLCM-MDSS	SOUTH WALES LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
51	350m S	SWLCM-MDSS	SOUTH WALES LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
53	379m E	SWMCM-MDSS	SOUTH WALES MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m

6

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).



Location	Flow type	Maximum permeability	Minimum permeability
On site	Fracture	Moderate	Low
On site	Fracture	Moderate	Low
On site	Fracture	Moderate	Low
On site	Fracture	Moderate	Low
On site	Fracture	Moderate	Low
41m SE	Fracture	Moderate	Low

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	43
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Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on [page 213](#) >

ID	Location	Category	Description
11	On site	FAULT	Fault, inferred, displacement unknown
12	On site	FAULT	Fault, inferred, displacement unknown
13	On site	FAULT	Reverse or thrust fault, inferred
14	On site	FAULT	Fault, observed, displacement unknown
15	On site	FAULT	Reverse or thrust fault, inferred
16	On site	FAULT	Reverse or thrust fault, inferred
17	On site	ROCK	Coal seam, inferred
18	On site	ROCK	Coal seam, inferred
19	On site	ROCK	Coal seam, inferred
20	On site	ROCK	Coal seam, inferred
21	On site	ROCK	Coal seam, inferred
22	On site	ROCK	Coal seam, inferred
23	On site	ROCK	Coal seam, inferred
24	On site	ROCK	Coal seam, inferred



ID	Location	Category	Description
25	On site	ROCK	Coal seam, inferred
26	On site	ROCK	Coal seam, inferred
27	On site	ROCK	Coal seam, inferred
28	On site	ROCK	Coal seam, inferred
29	On site	FOSSIL_HORIZON	Marine band
30	On site	FOSSIL_HORIZON	Marine band
31	On site	FOSSIL_HORIZON	Marine band
32	On site	FOSSIL_HORIZON	Marine band
33	On site	FOSSIL_HORIZON	Marine band
36	13m SE	FAULT	Fault, inferred, displacement unknown
37	39m NW	ROCK	Coal seam, inferred
38	109m NE	FAULT	Reverse or thrust fault, inferred
39	141m SE	ROCK	Coal seam, inferred
40	153m S	ROCK	Coal seam, inferred
41	160m E	ROCK	Coal seam, inferred
42	185m E	ROCK	Coal seam, inferred
43	235m SE	ROCK	Coal seam, inferred
44	259m E	ROCK	Coal seam, inferred
46	270m N	FAULT	Fault, inferred, displacement unknown
48	293m S	FAULT	Reverse or thrust fault, inferred
49	303m NW	ROCK	Coal seam, inferred
50	318m S	ROCK	Coal seam, inferred
52	350m S	FAULT	Fault, inferred, displacement unknown
54	380m E	FAULT	Reverse or thrust fault, inferred
55	391m E	ROCK	Coal seam, inferred
56	408m SE	ROCK	Coal seam, inferred
57	414m SE	ROCK	Coal seam, inferred
58	439m N	FAULT	Fault, inferred, displacement unknown

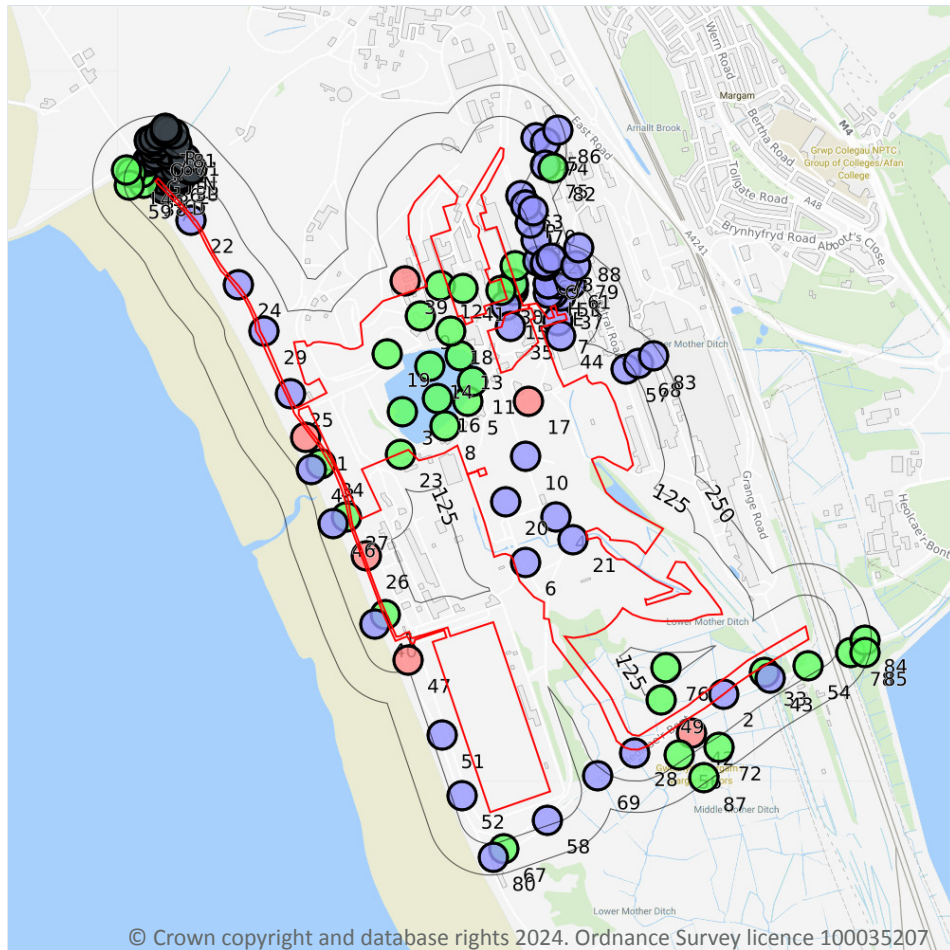


ID	Location	Category	Description
59	479m E	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.



16 Boreholes



— Site Outline
Search buffers in metres (m)

- Confidential
- 0 - 10m
- 10 - 30m
- 30m+
- Unknown

16.1 BGS Boreholes

Records within 250m

135

The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several thousand metres deep.

Features are displayed on the Boreholes map on [page 218](#) >

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	276980 185572	PORT TALBOT PDR STAGE TWO 11	15.0	N	370888 ↗
2	On site	278328 185254	PORT TALBOT PDR STAGE TWO 15	10.0	N	370891 ↗
3	On site	277050 186380	MARGAM STEEL WORKS. NO.R12	12.5	N	370775 ↗



ID	Location	Grid reference	Name	Length	Confidential	Web link
4	On site	277660 185960	MARGAM STEEL WORKS. NO.WR5	4.57	N	370794 ↗
5	On site	277310 186420	MARGAM STEEL WORKS. NO.R7	12.19	N	370770 ↗
6	On site	277540 185780	MARGAM STEEL WORKS. NO.WR1	6.1	N	370790 ↗
7	On site	277670 186740	MARGAM STEEL WORKS. NO.DD2	7.92	N	370751 ↗
8	On site	277220 186320	MARGAM STEEL WORKS. NO.R8	12.19	N	370771 ↗
9	On site	277120 186760	MARGAM STEEL WORKS. NO.R4	12.5	N	370767 ↗
10	On site	277540 186200	MARGAM STEEL WORKS. NO.WR3	3.96	N	370792 ↗
11	On site	277330 186500	MARGAM STEEL WORKS. NO.R1	16.15	N	370764 ↗
12	On site	277200 186880	MARGAM STEEL WORKS. NO.R5	13.72	N	370768 ↗
13	On site	277280 186600	MARGAM STEEL WORKS. NO.R2	15.24	N	370765 ↗
14	On site	277160 186560	MARGAM STEEL WORKS. NO.R10	12.19	N	370773 ↗
15	On site	277460 186800	MARGAM STEEL WORKS. NO.WC13	6.1	N	370783 ↗
16	On site	277190 186430	MARGAM STEEL WORKS. NO.R9	11.89	N	370772 ↗
17	On site	277550 186420	MORFA COLLIERY, GRANGE PIT, PORT TALBOT	371.94	N	370671 ↗
18	On site	277240 186700	MARGAM STEEL WORKS. NO.R3	15.24	N	370766 ↗
19	On site	276990 186610	MARGAM STEEL WORKS. NO.R11	12.19	N	370774 ↗
20	On site	277460 186020	MARGAM STEEL WORKS. NO.WR2	6.4	N	370791 ↗
21	On site	277730 185870	MARGAM STEEL WORKS. NO.WR4	6.09	N	370793 ↗
A	On site	276097 187267	2U - Afan Advanced Digestion Scheme TP4	-	Y	N/A
A	On site	276100 187264	2U - Afan Advanced Digestion Scheme BH4	-	Y	N/A
B	On site	277490 186860	MARGAM STEEL WORKS. NO.CT1	10.06	N	370747 ↗
B	On site	277490 186880	MARGAM STEEL WORKS. NO.WC11	7.47	N	370781 ↗
B	On site	277490 186890	MARGAM STEEL WORKS. NO.CT2	14.94	N	370748 ↗
22	1m NW	276208 187141	PORT TALBOT PDR STAGE TWO TH 7	3.1	N	370901 ↗
23	3m W	277040 186210	MARGAM STEEL WORKS. NO.R13	13.11	N	370776 ↗
24	4m NW	276397 186885	PORT TALBOT PDR STAGE TWO TH 8	2.9	N	370902 ↗
25	8m NW	276604 186451	PORT TALBOT PDR STAGE TWO TH 10	3.0	N	370904 ↗
26	10m SW	276906 185806	PORT TALBOT PDR STAGE TWO 10	40.25	N	370887 ↗



ID	Location	Grid reference	Name	Length	Confidential	Web link
27	10m W	276825 185958	PORT TALBOT PDR STAGE TWO 9	15.0	N	370886 ↗
28	13m SE	277975 185020	PORT TALBOT PDR STAGE TWO 14	10.0	N	370890 ↗
29	15m NW	276499 186700	PORT TALBOT PDR STAGE TWO TH 9	2.9	N	370903 ↗
30	15m N	277440 186860	MARGAM STEEL WORKS. NO.CT3	17.37	N	370749 ↗
C	16m NW	276103 187301	AFAN WWTW PORT TALBOT 105	-	Y	N/A
31	21m W	276663 186277	PORT TALBOT PDR STAGE TWO 7	40.6	N	370884 ↗
32	23m N	277500 186960	ABBEY WORKS, 1957 CEMENTATION CO. LTD. 4	24.38	N	370703 ↗
33	23m SE	278490 185340	ABBEY WORKS V SCHEME H9	18.59	N	370697 ↗
34	28m W	276726 186172	PORT TALBOT PDR STAGE TWO 8	11.5	N	370885 ↗
D	32m NW	276134 187292	2U - Afan Advanced Digestion Scheme BH3	-	Y	N/A
35	33m N	277480 186720	MARGAM STEEL WORKS. NO.WC12	8.38	N	370782 ↗
C	37m NW	276112 187322	AFAN WWTW PORT TALBOT TP104	-	Y	N/A
D	37m NW	276144 187288	2U - Afan Advanced Digestion Scheme TP3	-	Y	N/A
36	39m NW	276077 187346	AFAN WWTW PORT TALBOT TP102	-	Y	N/A
37	45m N	277680 186840	MARGAM STEEL WORKS. NO.F13	8.69	N	370746 ↗
38	46m NW	276020 187290	SEA OUTFALL PUMPING STATION PORT TALBOT 2	20.0	N	370837 ↗
C	46m NW	276103 187345	AFAN WWTW PORT TALBOT 104	-	Y	N/A
39	48m NW	277060 186900	STEEL CO. WALES, ABBEY WKS, 1959 SOIL MECHANICS. 1	36.58	N	370702 ↗
40	49m SW	276938 185533	PORT TALBOT PDR STAGE TWO TH 13	3.0	N	370907 ↗
E	49m N	277650 186850	MARGAM STEEL WORKS. NO.F15	9.75	N	370732 ↗
E	49m N	277650 186850	MARGAM STEEL WORKS. NO.F29	8.53	N	370734 ↗
E	49m N	277650 186850	MARGAM STEEL WORKS. NO.F28	8.23	N	370733 ↗
C	52m NW	276104 187351	AFAN WWTW PORT TALBOT R104	-	Y	N/A
41	54m N	277290 186870	MARGAM STEEL WORKS. NO.R6	12.34	N	370769 ↗
42	54m SE	278200 185100	ABBEY WORKS V SCHEME H3	30.48	N	370693 ↗
43	55m SE	278515 185317	PORT TALBOT PDR STAGE TWO TH 19	4.0	N	370909 ↗
E	55m N	277630 186850	MARGAM STEEL WORKS. NO.DD4	6.71	N	370752 ↗
44	56m NE	277680 186680	MARGAM STEEL WORKS. NO.DD1	7.32	N	370750 ↗



ID	Location	Grid reference	Name	Length	Confidential	Web link
C	59m NW	276105 187359	2U - Afan Advanced Digestion Scheme BH5	-	Y	N/A
45	65m NW	276010 187330	SEA OUTFALL PUMPING STATION PORT TALBOT B	25.57	N	370835 ↗
F	66m NW	276164 187309	2U - Afan Advanced Digestion Scheme BH2A	-	Y	N/A
46	67m W	276772 185932	PORT TALBOT PDR STAGE TWO TH 12	3.2	N	370906 ↗
47	67m SW	277072 185389	PORT TALBOT PDR STAGE TWO 12	40.0	N	370889 ↗
F	70m NW	276161 187318	2U - Afan Advanced Digestion Scheme TP2	-	Y	N/A
48	72m W	276688 186150	PORT TALBOT PDR STAGE TWO TH 11	3.0	N	370905 ↗
49	75m SE	278080 185230	ABBAY WORKS V SCHEME H5	17.22	N	370694 ↗
50	81m NW	276147 187349	AFAN WWTW PORT TALBOT TP106	-	Y	N/A
G	82m NW	276033 187377	AFAN WWTW PORT TALBOT 101	-	Y	N/A
G	84m NW	276051 187387	PORT TALBOT PDR STAGE TWO TH 6	3.1	N	370900 ↗
51	84m S	277206 185091	PORT TALBOT PDR STAGE TWO TH 14	2.9	N	370908 ↗
52	86m S	277286 184850	PORT TALBOT PDR STAGE TWO TH 15	4.1	N	370988 ↗
G	87m NW	276049 187390	AFAN WWTW PORT TALBOT R101	-	Y	N/A
53	90m N	277670 186890	MARGAM STEEL WORKS. NO.F26	7.92	N	370745 ↗
54	90m SE	278665 185366	PORT TALBOT PDR STAGE TWO 16	15.7	N	370892 ↗
H	93m N	277630 186890	MARGAM STEEL WORKS. NO.F14	7.47	N	370731 ↗
H	93m N	277630 186890	MARGAM STEEL WORKS. NO.F27	8.84	N	370730 ↗
G	94m NW	276069 187401	AFAN WWTW PORT TALBOT 103	-	Y	N/A
55	99m NW	276149 187374	AFAN WWTW PORT TALBOT 108	-	Y	N/A
56	100m SE	278150 185010	ABBAY WORKS V SCHEME H6	18.59	N	370695 ↗
I	101m NW	275970 187330	SEA OUTFALL PUMPING STATION PORT TALBOT 1	15.0	N	370836 ↗
57	104m NE	277940 186550	MARGAM STEEL WORKS. NO.WC4	6.1	N	370778 ↗
58	104m S	277626 184752	PORT TALBOT PDR STAGE TWO TH 17	3.5	N	370990 ↗
J	105m NW	276117 187404	AFAN WWTW PORT TALBOT R123A	-	Y	N/A
59	107m NW	275960 187280	SEA OUTFALL PUMPING STATION PORT TALBOT A	22.0	N	370834 ↗
K	109m N	277720 186890	MARGAM STEEL WORKS. NO.F18	8.53	N	370736 ↗
K	109m N	277720 186890	MARGAM STEEL WORKS. NO.F16	7.92	N	370735 ↗



ID	Location	Grid reference	Name	Length	Confidential	Web link
60	114m N	277590 186980	MARGAM STEEL WORKS. NO.F22	7.92	N	370741 ↗
L	117m NW	276194 187351	2U - Afan Advanced Digestion Scheme TP1	-	Y	N/A
L	117m NW	276202 187343	2U - Afan Advanced Digestion Scheme BH1	-	Y	N/A
J	122m NW	276117 187422	AFAN WWTW PORT TALBOT 107	-	Y	N/A
M	124m NW	276057 187429	AFAN WWTW PORT TALBOT TP101	-	Y	N/A
I	124m NW	275950 187340	PORT TALBOT, HOLST SOIL ENGINEERING. NO.6	15.25	N	370713 ↗
L	124m NW	276211 187344	AFAN WWTW PORT TALBOT 113	-	Y	N/A
61	130m N	277710 186920	MARGAM STEEL WORKS. NO.F24	7.32	N	370744 ↗
62	130m N	277580 187060	MARGAM STEEL WORKS. NO.DD11	4.27	N	370759 ↗
M	131m NW	276068 187438	AFAN WWTW PORT TALBOT R121	-	Y	N/A
63	132m N	277520 187240	MARGAM STEEL WORKS. NO.F20	7.32	N	370739 ↗
N	132m NW	276178 187391	AFAN WWTW PORT TALBOT R112	-	Y	N/A
64	134m N	277560 187130	MARGAM STEEL WORKS. NO.DD10	4.57	N	370758 ↗
N	134m NW	276184 187388	AFAN WWTW PORT TALBOT 112	-	Y	N/A
65	136m N	277580 187470	MARGAM STEEL WORKS. NO.DD6	7.62	N	370754 ↗
O	136m N	277620 186960	MARGAM STEEL WORKS. NO.F25	7.92	N	370743 ↗
O	140m N	277620 186970	MARGAM STEEL WORKS. NO.F23	7.32	N	370742 ↗
P	144m N	277540 187200	MARGAM STEEL WORKS. NO.DD8	3.96	N	370756 ↗
P	144m N	277540 187200	MARGAM STEEL WORKS. NO.DD9	5.39	N	370757 ↗
66	147m NW	276094 187453	AFAN WWTW PORT TALBOT R122	-	Y	N/A
Q	151m NW	276047 187455	AFAN WWTW PORT TALBOT R102	-	Y	N/A
Q	155m NW	276042 187458	AFAN WWTW PORT TALBOT 102	-	Y	N/A
67	155m S	277453 184638	PORT TALBOT PDR STAGE TWO 13	23.5	N	370987 ↗
68	156m NE	277990 186570	MARGAM STEEL WORKS. NO.WC3	6.1	N	370777 ↗
69	157m S	277827 184927	PORT TALBOT PDR STAGE TWO TH 18	4.0	N	370991 ↗
70	160m N	277570 187180	MARGAM STEEL WORKS. NO.F19	8.53	N	370738 ↗
71	160m NW	276152 187448	AFAN WWTW PORT TALBOT 111	-	Y	N/A
Q	161m NW	276060 187467	AFAN WWTW PORT TALBOT TP103	-	Y	N/A

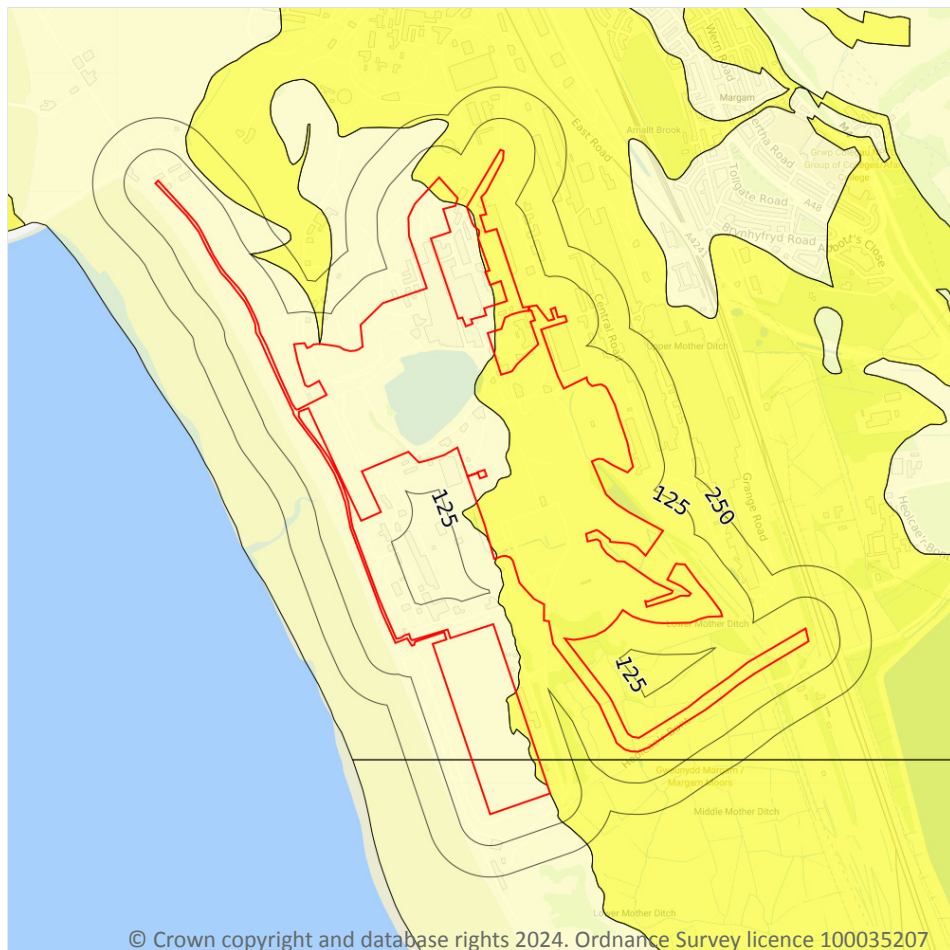


ID	Location	Grid reference	Name	Length	Confidential	Web link
72	164m SE	278310 185040	ABBEY WORKS V SCHEME H8	20.12	N	370696 ↗
73	165m N	277640 186990	MARGAM STEEL WORKS. NO.F21	7.47	N	370740 ↗
74	170m N	277620 187450	MARGAM STEEL WORKS. NO.DD5	3.96	N	370753 ↗
75	172m N	277620 187360	MARGAM STEEL WORKS. NO.DD7	4.27	N	370755 ↗
76	173m SE	278100 185360	ABBEY WORKS V SCHEME H1	19.81	N	370692 ↗
77	173m NW	276082 187480	AFAN WWTW PORT TALBOT 106	-	Y	N/A
78	175m SE	278834 185419	PORT TALBOT PDR STAGE TWO 17	17.0	N	370893 ↗
79	179m N	277740 186960	MARGAM STEEL WORKS. NO.F17	7.62	N	370737 ↗
80	181m S	277410 184603	PORT TALBOT PDR STAGE TWO TH 16	3.0	N	370989 ↗
R	186m NW	276105 187491	AFAN WWTW PORT TALBOT TP107	-	Y	N/A
81	187m NW	276138 187483	AFAN WWTW PORT TALBOT TP108	-	Y	N/A
R	191m NW	276112 187495	AFAN WWTW PORT TALBOT R110	-	Y	N/A
82	204m N	277650 187350	MORFA BANK, MARGAM. NO.8	11.51	N	370724 ↗
R	204m NW	276105 187509	AFAN WWTW PORT TALBOT 110	-	Y	N/A
83	222m NE	278050 186600	MARGAM STEEL WORKS. NO.WC6	6.4	N	370779 ↗
84	223m SE	278890 185470	BOC MARGAM OBS 7	11.0	N	18113365 ↗
85	229m SE	278890 185420	STEEL CO. OF WALES EGLWYSNNYDD 40	16.15	N	370690 ↗
86	230m N	277670 187500	MARGAM STEEL WORKS. NO.WC22	7.01	N	370784 ↗
87	231m SE	278250 184920	ABBEY WORKS V SCHEME H4	18.59	N	370955 ↗
88	247m N	277750 187030	MARGAM STEEL WORKS. NO.DD12	3.66	N	370760 ↗

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

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17.1 Shrink swell clays

Records within 50m

2

The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and local drainage).

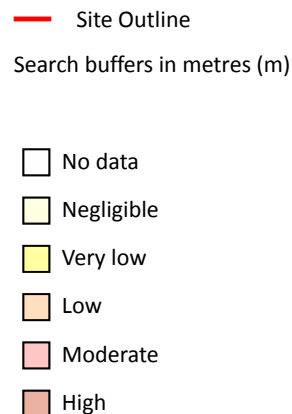
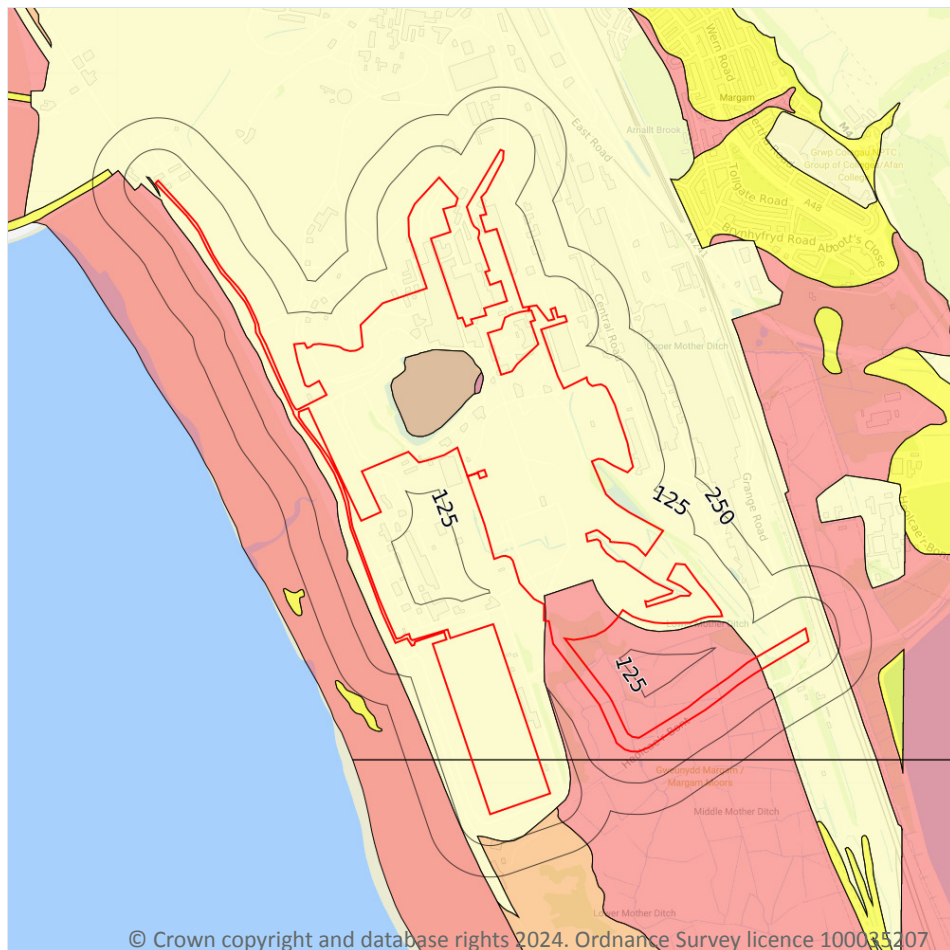
Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 224 >](#)

Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.
On site	Very low	Ground conditions predominantly low plasticity.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



17.2 Running sands

Records within 50m

6

The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on [page 225 >](#)

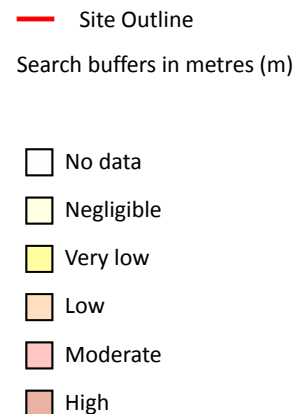
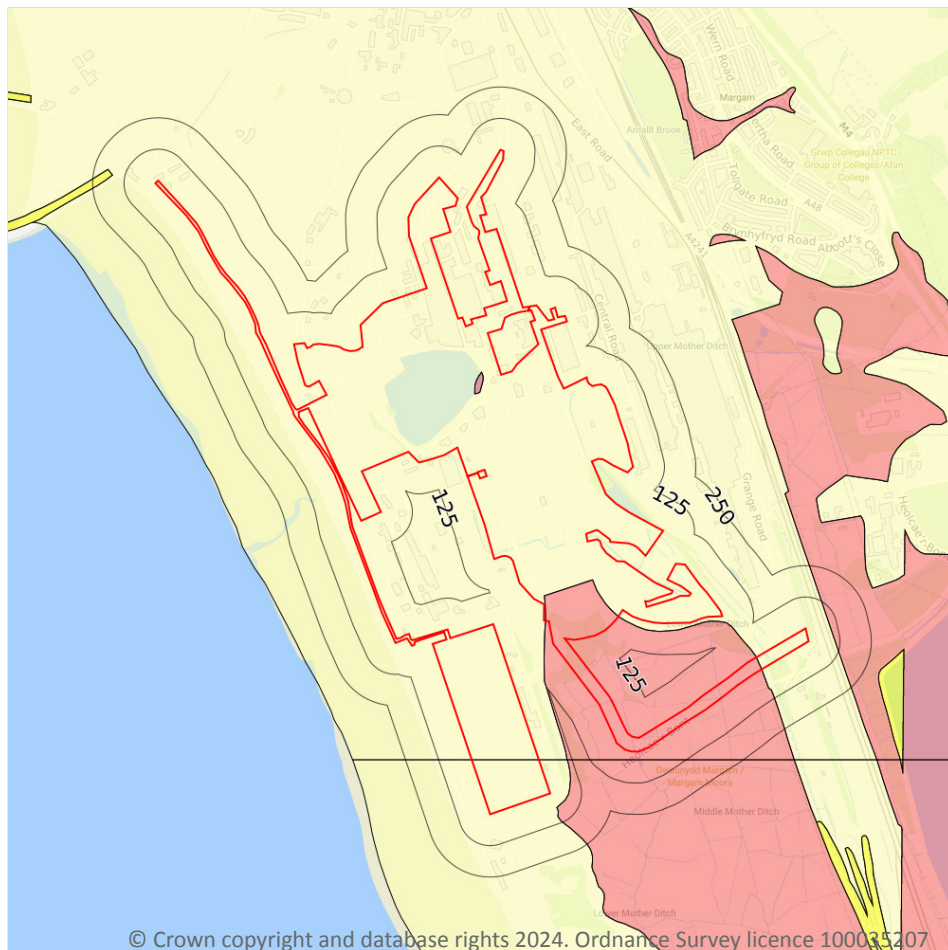
Location	Hazard rating	Details
On site	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

Location	Hazard rating	Details
On site	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.
On site	Moderate	Running sand conditions are probably present. Constraints may apply to land uses involving excavation or the addition or removal of water.
6m NW	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.
24m W	Moderate	Running sand conditions are probably present. Constraints may apply to land uses involving excavation or the addition or removal of water.
33m SE	Moderate	Running sand conditions are probably present. Constraints may apply to land uses involving excavation or the addition or removal of water.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



17.3 Compressible deposits

Records within 50m

3

The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on [page 227](#) >

Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.
On site	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.

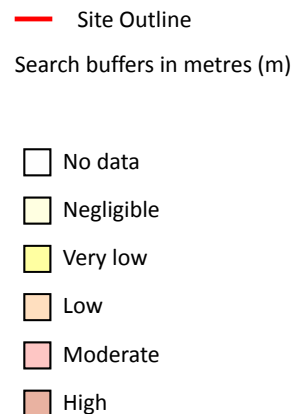
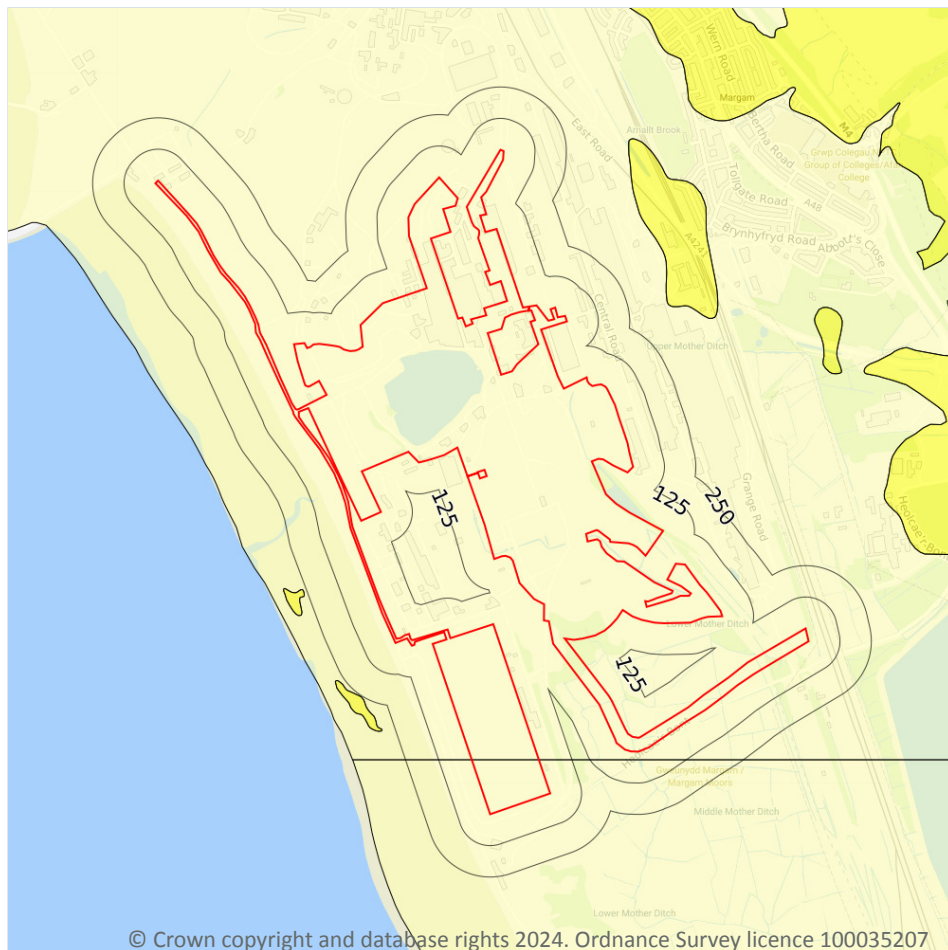


Location	Hazard rating	Details
33m SE	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



17.4 Collapsible deposits

Records within 50m

1

The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

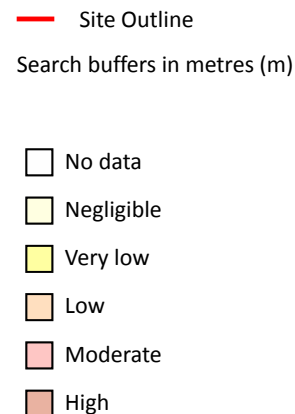
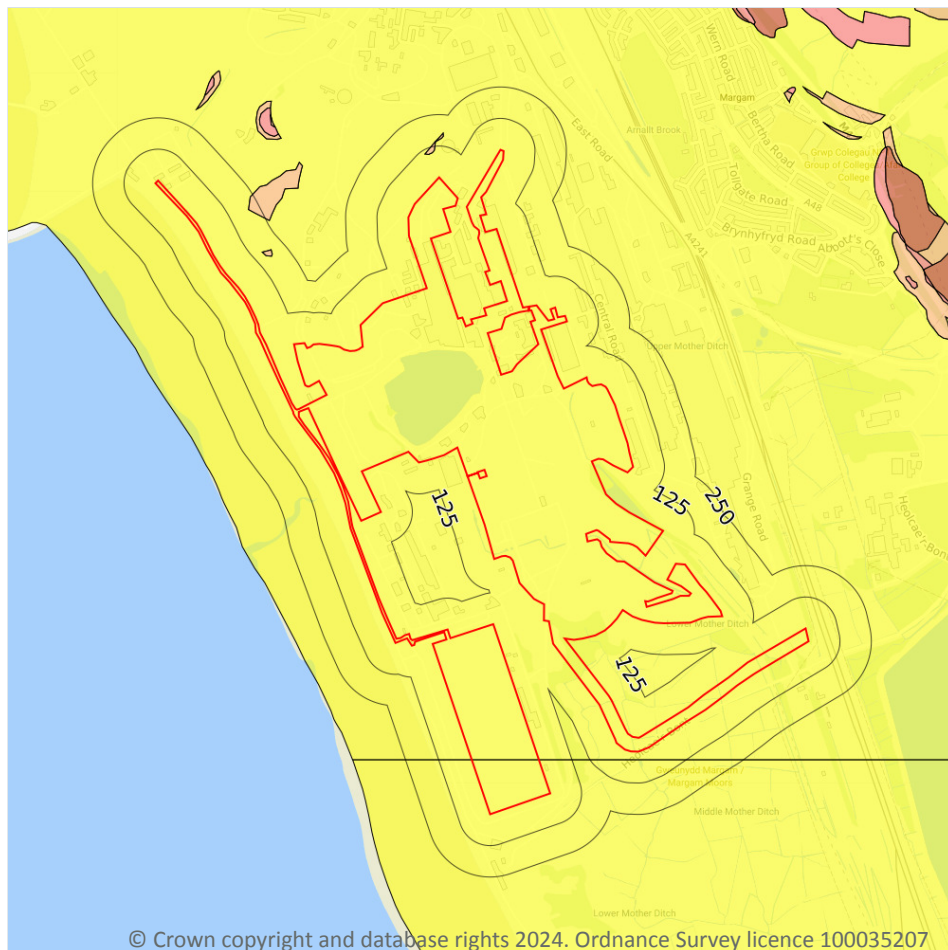
Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 229 >](#)

Location	Hazard rating	Details
On site	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Landslides



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17.5 Landslides

Records within 50m

1

The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

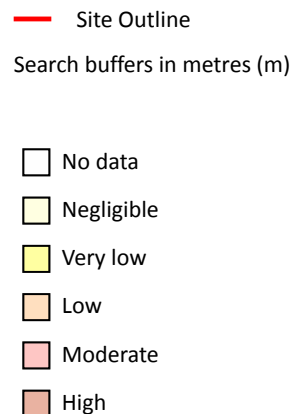
Features are displayed on the Natural ground subsidence - Landslides map on [page 230](#) >

Location	Hazard rating	Details
On site	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



17.6 Ground dissolution of soluble rocks

Records within 50m

1

The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on [page 231](#) >

Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.



This data is sourced from the British Geological Survey.

