

192620 , 202604,

Order Details

Date: 04/07/2022
Your ref: JFR2786_Water_Pipeline_PO-827
Our Ref: GS-8873288

Site Details

Location: 192620 202604
Area: 1.53 ha
Authority: [Sir Benfro - Pembrokeshire County Council](#)



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Summary of findings

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Aerial image

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OS MasterMap site plan

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info@groundsure.com

08444 159 000

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
<u>14</u>	<u>1.1</u>	<u>Historical industrial land uses</u>	2	2	7	14	-
<u>16</u>	<u>1.2</u>	<u>Historical tanks</u>	2	0	1	9	-
<u>16</u>	<u>1.3</u>	<u>Historical energy features</u>	0	0	4	1	-
17	1.4	Historical petrol stations	0	0	0	0	-
17	1.5	Historical garages	0	0	0	0	-
17	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped	On site	0-50m	50-250m	250-500m	500-2000m
<u>18</u>	<u>2.1</u>	<u>Historical industrial land uses</u>	2	2	7	18	-
<u>20</u>	<u>2.2</u>	<u>Historical tanks</u>	4	0	1	15	-
<u>21</u>	<u>2.3</u>	<u>Historical energy features</u>	0	0	4	3	-
21	2.4	Historical petrol stations	0	0	0	0	-
21	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
22	3.1	Active or recent landfill	0	0	0	0	-
22	3.2	Historical landfill (BGS records)	0	0	0	0	-
23	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
23	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
23	3.5	Historical waste sites	0	0	0	0	-
23	3.6	Licensed waste sites	0	0	0	0	-
<u>23</u>	<u>3.7</u>	<u>Waste exemptions</u>	0	0	0	5	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
<u>25</u>	<u>4.1</u>	<u>Recent industrial land uses</u>	2	0	4	-	-
26	4.2	Current or recent petrol stations	0	0	0	0	-
26	4.3	Electricity cables	0	0	0	0	-
26	4.4	Gas pipelines	0	0	0	0	-
26	4.5	Sites determined as Contaminated Land	0	0	0	0	-



26	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
27	4.7	Regulated explosive sites	0	0	0	0	-
27	4.8	Hazardous substance storage/usage	0	0	0	0	-
27	4.9	<u>Historical licensed industrial activities (IPC)</u>	0	0	0	3	-
28	4.10	<u>Licensed industrial activities (Part A(1))</u>	5	0	0	0	-
29	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
29	4.12	Radioactive Substance Authorisations	0	0	0	0	-
29	4.13	<u>Licensed Discharges to controlled waters</u>	0	0	0	2	-
30	4.14	<u>Pollutant release to surface waters (Red List)</u>	0	0	0	1	-
30	4.15	Pollutant release to public sewer	0	0	0	0	-
30	4.16	<u>List 1 Dangerous Substances</u>	0	0	0	1	-
30	4.17	<u>List 2 Dangerous Substances</u>	0	0	0	1	-
31	4.18	Pollution Incidents (EA/NRW)	0	0	0	0	-
31	4.19	Pollution inventory substances	0	0	0	0	-
31	4.20	Pollution inventory waste transfers	0	0	0	0	-
31	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
32	5.1	<u>Superficial aquifer</u>	Identified (within 500m)				
34	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
36	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
37	5.4	<u>Groundwater vulnerability- soluble rock risk</u>	Identified (within 0m)				
37	5.5	Groundwater vulnerability- local information	None (within 0m)				
38	5.6	Groundwater abstractions	0	0	0	0	0
39	5.7	<u>Surface water abstractions</u>	0	0	0	0	15
42	5.8	Potable abstractions	0	0	0	0	0
42	5.9	Source Protection Zones	0	0	0	0	-
42	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
43	6.1	<u>Water Network (OS MasterMap)</u>	5	0	0	-	-



44	6.2	<u>Surface water features</u>	1	0	1	-	-
44	6.3	<u>WFD Surface water body catchments</u>	1	-	-	-	-
45	6.4	WFD Surface water bodies	0	0	0	-	-
45	6.5	<u>WFD Groundwater bodies</u>	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
46	7.1	<u>Risk of flooding from rivers and the sea</u>	Medium (within 50m)				
47	7.2	Historical Flood Events	0	0	0	-	-
47	7.3	Flood Defences	0	0	0	-	-
47	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
47	7.5	Flood Storage Areas	0	0	0	-	-
48	7.6	Flood Zone 2	None (within 50m)				
48	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
49	8.1	<u>Surface water flooding</u>	1 in 30 year, 0.1m - 0.3m (within 50m)				
Page	Section	Groundwater flooding					
51	9.1	<u>Groundwater flooding</u>	High (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
52	10.1	<u>Sites of Special Scientific Interest (SSSI)</u>	0	0	0	2	5
53	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
53	10.3	<u>Special Areas of Conservation (SAC)</u>	0	0	0	2	1
54	10.4	Special Protection Areas (SPA)	0	0	0	0	0
54	10.5	National Nature Reserves (NNR)	0	0	0	0	0
54	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
55	10.7	<u>Designated Ancient Woodland</u>	0	0	0	0	7
55	10.8	Biosphere Reserves	0	0	0	0	0
55	10.9	Forest Parks	0	0	0	0	0
56	10.10	Marine Conservation Zones	0	0	0	0	0
56	10.11	Green Belt	0	0	0	0	0
56	10.12	Proposed Ramsar sites	0	0	0	0	0



56	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
56	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
57	10.15	Nitrate Sensitive Areas	0	0	0	0	0
57	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
58	10.17	SSSI Impact Risk Zones	0	-	-	-	-
58	10.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
59	11.1	World Heritage Sites	0	0	0	-	-
59	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
59	11.3	National Parks	0	0	0	-	-
59	11.4	Listed Buildings	0	0	0	-	-
60	11.5	Conservation Areas	0	0	0	-	-
60	11.6	Scheduled Ancient Monuments	0	0	0	-	-
60	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
61	12.1	<u>Agricultural Land Classification</u>	Grade 3b (within 250m)				
62	12.2	Open Access Land	0	0	0	-	-
62	12.3	Tree Felling Licences	0	0	0	-	-
62	12.4	Environmental Stewardship Schemes	0	0	0	-	-
62	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
63	13.1	Priority Habitat Inventory	0	0	0	-	-
63	13.2	Habitat Networks	0	0	0	-	-
63	13.3	Open Mosaic Habitat	0	0	0	-	-
63	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
64	14.1	<u>10k Availability</u>	Identified (within 500m)				
65	14.2	Artificial and made ground (10k)	0	0	0	0	-
66	14.3	Superficial geology (10k)	0	0	0	0	-



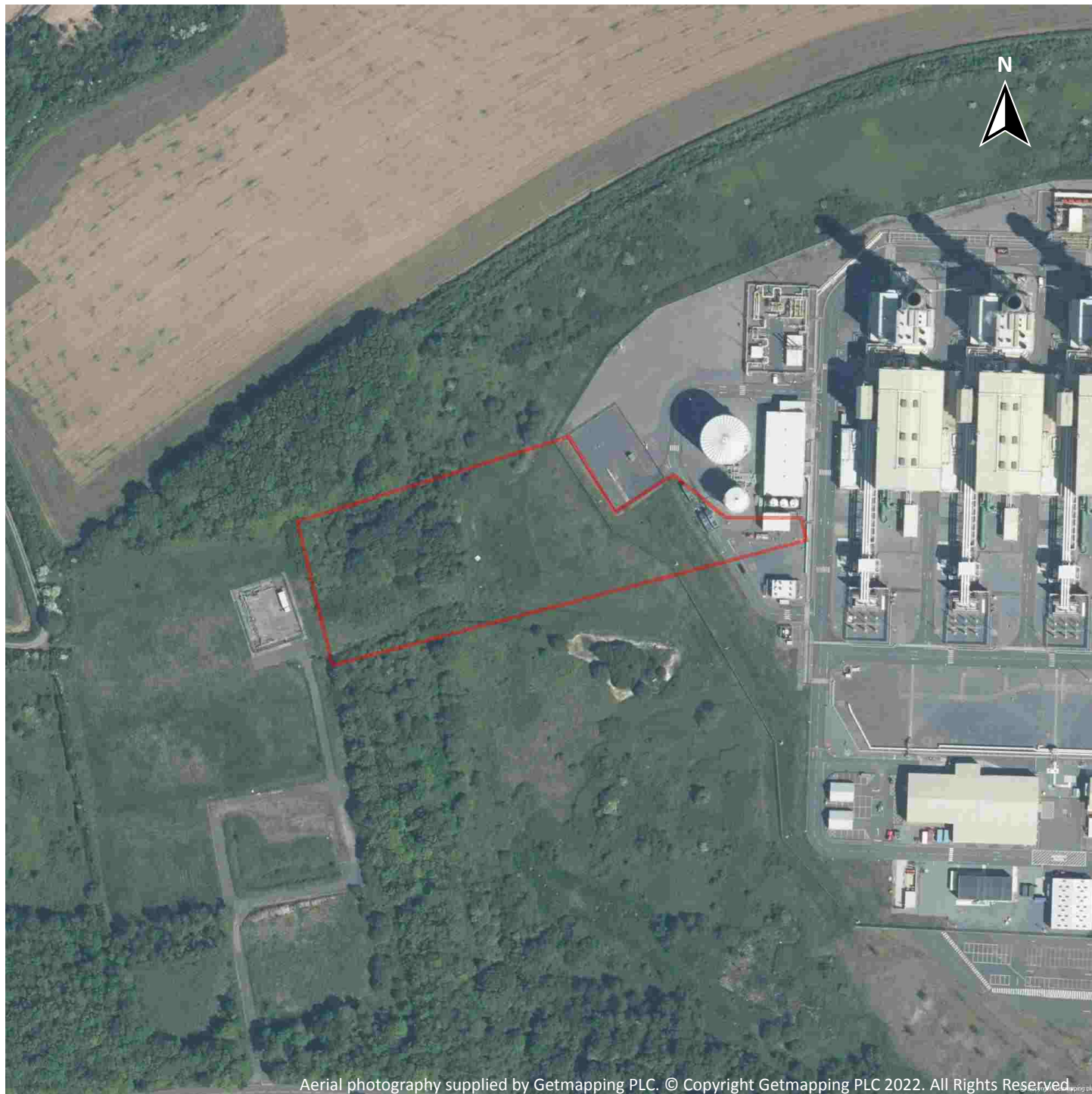
66	14.4	Landslip (10k)	0	0	0	0	-
67	14.5	Bedrock geology (10k)	0	0	0	0	-
67	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
68	15.1	<u>50k Availability</u>	Identified (within 500m)				
70	15.2	Artificial and made ground (50k)	0	0	0	0	-
70	15.3	Artificial ground permeability (50k)	0	0	-	-	-
71	15.4	<u>Superficial geology (50k)</u>	0	0	2	1	-
72	15.5	Superficial permeability (50k)	None (within 50m)				
72	15.6	Landslip (50k)	0	0	0	0	-
72	15.7	Landslip permeability (50k)	None (within 50m)				
73	15.8	<u>Bedrock geology (50k)</u>	3	0	1	6	-
74	15.9	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
74	15.10	<u>Bedrock faults and other linear features (50k)</u>	0	0	0	1	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
76	16.1	<u>BGS Boreholes</u>	6	21	141	-	-
Page	Section	Natural ground subsidence					
86	17.1	<u>Shrink swell clays</u>	Very low (within 50m)				
87	17.2	<u>Running sands</u>	Negligible (within 50m)				
88	17.3	<u>Compressible deposits</u>	Negligible (within 50m)				
89	17.4	<u>Collapsible deposits</u>	Very low (within 50m)				
90	17.5	<u>Landslides</u>	Very low (within 50m)				
91	17.6	<u>Ground dissolution of soluble rocks</u>	Low (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
93	18.1	Natural cavities	0	0	0	0	-
94	18.2	BritPits	0	0	0	0	-
94	18.3	<u>Surface ground workings</u>	2	2	4	-	-
94	18.4	Underground workings	0	0	0	0	0
95	18.5	Historical Mineral Planning Areas	0	0	0	0	-



95	18.6	<u>Non-coal mining</u>	1	0	1	1	3
96	18.7	Mining cavities	0	0	0	0	0
96	18.8	JPB mining areas	None (within 0m)				
96	18.9	Coal mining	None (within 0m)				
96	18.10	Brine areas	None (within 0m)				
96	18.11	Gypsum areas	None (within 0m)				
97	18.12	Tin mining	None (within 0m)				
97	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
98	19.1	<u>Radon</u>	Between 10% and 30% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
99	20.1	<u>BGS Estimated Background Soil Chemistry</u>	3	1	-	-	-
99	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
99	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
100	21.1	Underground railways (London)	0	0	0	-	-
100	21.2	Underground railways (Non-London)	0	0	0	-	-
100	21.3	Railway tunnels	0	0	0	-	-
100	21.4	Historical railway and tunnel features	0	0	0	-	-
100	21.5	Royal Mail tunnels	0	0	0	-	-
101	21.6	Historical railways	0	0	0	-	-
101	21.7	Railways	0	0	0	-	-
101	21.8	Crossrail 1	0	0	0	0	-
101	21.9	Crossrail 2	0	0	0	0	-
101	21.10	HS2	0	0	0	0	-



Recent aerial photograph



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Capture Date: 14/05/2020

Site Area: 1.53ha



Recent site history - 2017 aerial photograph



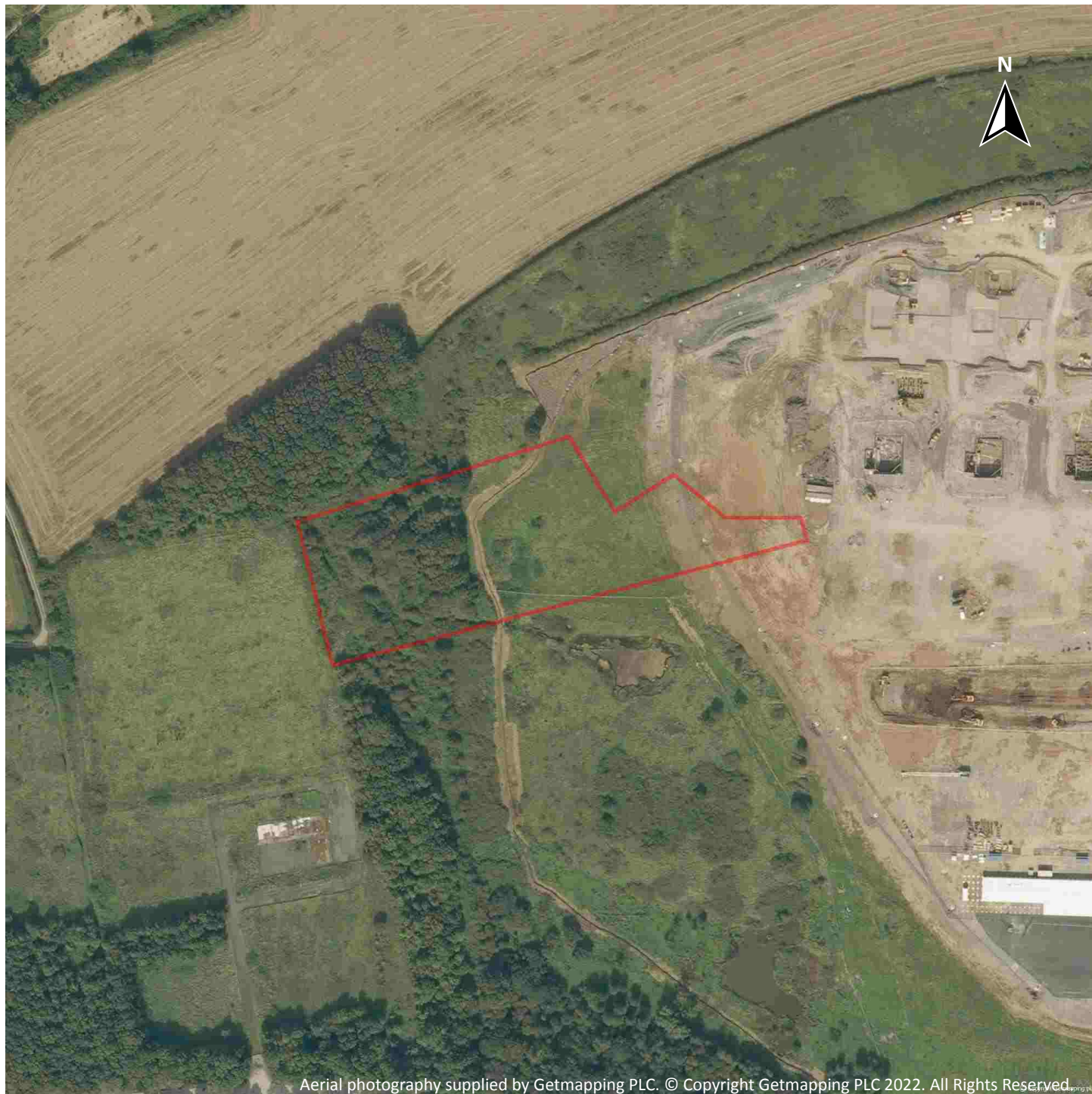
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Capture Date: 18/06/2017

Site Area: 1.53ha



Recent site history - 2009 aerial photograph



Capture Date: 11/09/2009

Site Area: 1.53ha



Recent site history - 2003 aerial photograph



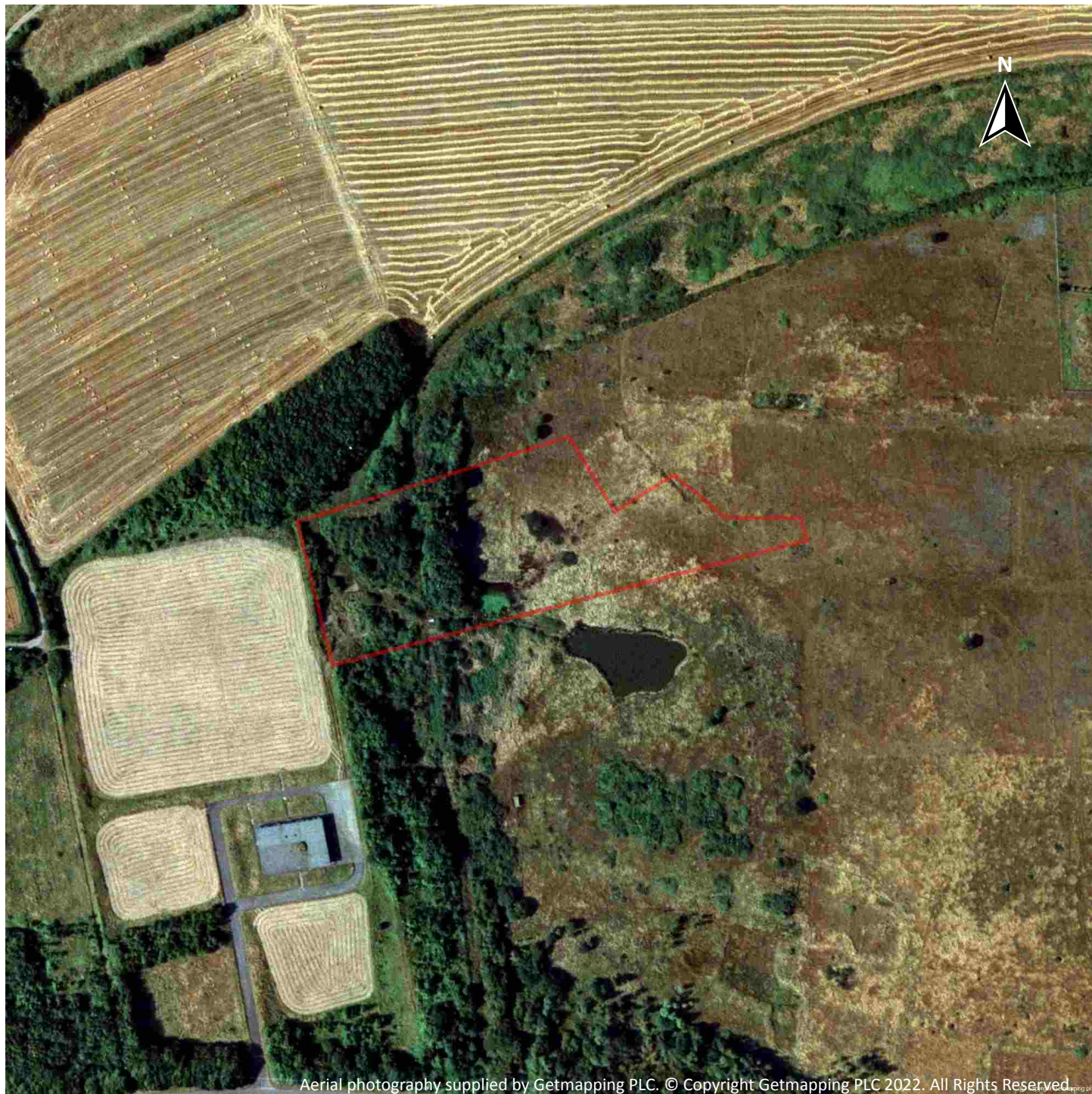
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Capture Date: 14/09/2003

Site Area: 1.53ha



Recent site history - 2000 aerial photograph



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Capture Date: 17/06/2000

Site Area: 1.53ha

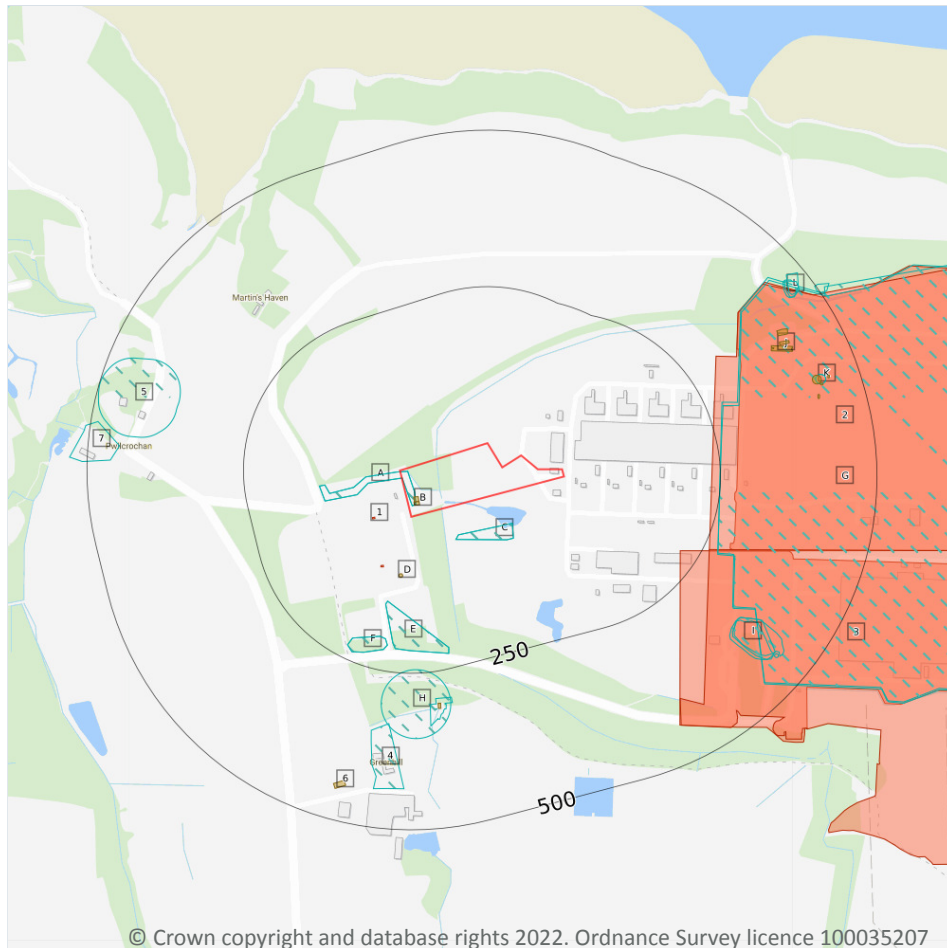


OS MasterMap site plan



Site Area: 1.53ha

1 Past land use



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features

1.1 Historical industrial land uses

Records within 500m

25

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 1:10,560 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
A	On site	Unspecified Ground Workings	1975	15413



ID	Location	Land use	Dates present	Group ID
A	On site	Unspecified Ground Workings	1994	17222
C	47m S	Unspecified Pit	1994	16723
C	47m S	Unspecified Pit	1975	17474
E	140m S	Unspecified Pit	1975	15940
E	140m S	Unspecified Pit	1994	16487
F	197m S	Unspecified Ground Workings	1975	14448
F	197m S	Unspecified Ground Workings	1994	14808
H	244m S	Unspecified Mill	1963	11723
G	249m E	Power Station	1994	16330
G	250m E	Power Station	1975	16495
H	293m S	Corn Mill	1864 - 1906	16546
4	332m S	Corn Mill	1948	12579
I	359m SE	Unspecified Pit	1906 - 1948	15212
I	359m SE	Unspecified Quarry	1864	12212
I	359m SE	Unspecified Pit	1963	13812
5	370m W	Sand Pit	1864	11832
K	429m E	Unspecified Tank	1975	14163
K	429m E	Unspecified Tank	1994	16177
I	441m SE	Lime Kiln	1864	12278
7	450m W	Grave Yard	1864	13454
L	453m NE	Unspecified Heap	1906 - 1948	17085
L	457m NE	Unspecified Heap	1963	14590
L	460m NE	Unspecified Heap	1864	16562
L	497m NE	Unspecified Heap	1906 - 1948	15842

This data is sourced from Ordnance Survey / Groundsure.



1.2 Historical tanks

Records within 500m

12

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
B	On site	Unspecified Tank	1972 - 1993	2574
B	On site	Unspecified Tank	1972 - 1993	2711
D	92m S	Unspecified Tank	1993	1808
H	301m S	Unspecified Tank	1972 - 1993	2504
J	384m NE	Tanks	1972 - 1988	2209
J	401m NE	Unspecified Tank	1972 - 1988	2795
J	406m NE	Tanks	1972 - 1988	2426
K	424m E	Tanks	1988	1996
K	424m E	Unspecified Tank	1972 - 1988	2692
6	434m S	Tanks	1972	1992
K	434m E	Unspecified Tank	1972 - 1988	2292
K	449m E	Tanks	1988	1999

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

5

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**



ID	Location	Land use	Dates present	Group ID
1	57m W	Electricity Substation	1972	431
D	89m SW	Electricity Substation	1972	432
G	220m SE	Power Station	1972	694
2	236m E	Power Station	1988	655
3	260m SE	Power Station	1990 - 1993	566

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m

0

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m

0

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

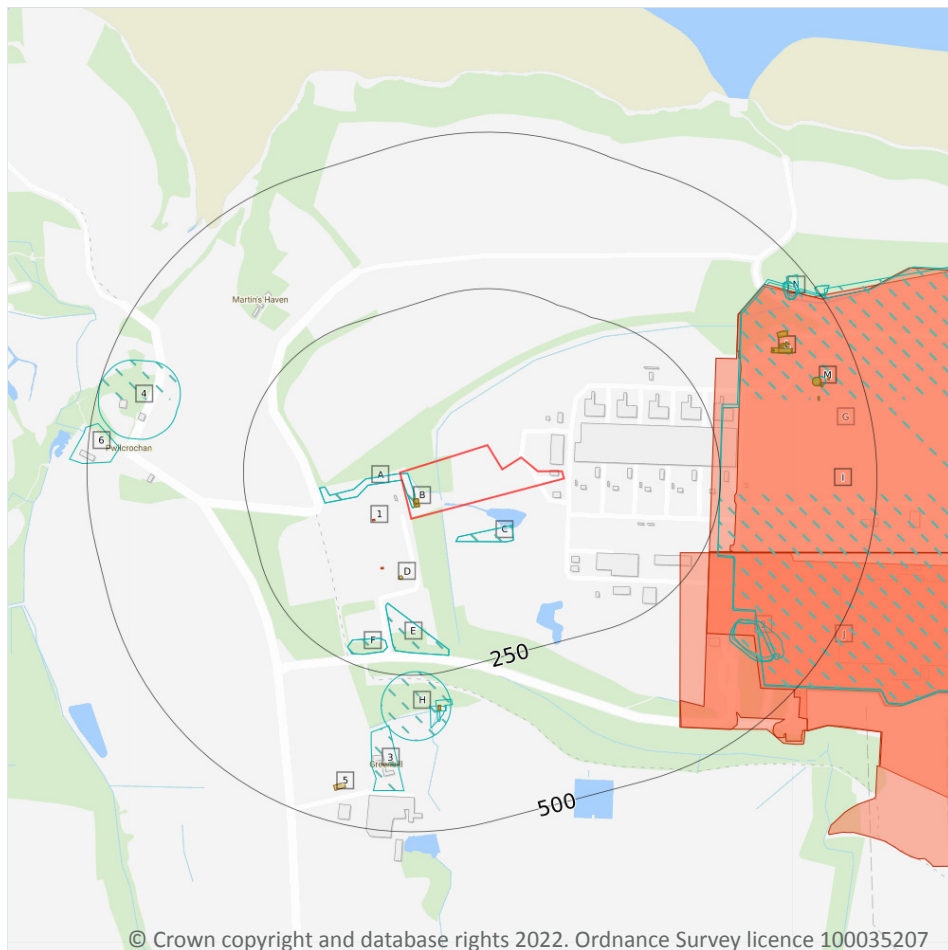
0

Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

This data is sourced from Ordnance Survey / Groundsure / other sources.



2 Past land use - un-grouped



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features

2.1 Historical industrial land uses

Records within 500m

29

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 18**

ID	Location	Land Use	Date	Group ID
A	On site	Unspecified Ground Workings	1994	17222
A	On site	Unspecified Ground Workings	1975	15413
C	47m S	Unspecified Pit	1994	16723



ID	Location	Land Use	Date	Group ID
C	47m S	Unspecified Pit	1975	17474
E	140m S	Unspecified Pit	1994	16487
E	140m S	Unspecified Pit	1975	15940
F	197m S	Unspecified Ground Workings	1994	14808
F	197m S	Unspecified Ground Workings	1975	14448
H	244m S	Unspecified Mill	1963	11723
I	249m E	Power Station	1994	16330
I	250m E	Power Station	1975	16495
H	293m S	Corn Mill	1864	16546
H	301m S	Corn Mill	1906	16546
3	332m S	Corn Mill	1948	12579
K	359m SE	Unspecified Pit	1948	15212
K	359m SE	Unspecified Pit	1906	15212
K	359m SE	Unspecified Quarry	1864	12212
K	359m SE	Unspecified Pit	1963	13812
4	370m W	Sand Pit	1864	11832
M	429m E	Unspecified Tank	1994	16177
M	429m E	Unspecified Tank	1975	14163
K	441m SE	Lime Kiln	1864	12278
6	450m W	Grave Yard	1864	13454
N	453m NE	Unspecified Heap	1948	17085
N	453m NE	Unspecified Heap	1906	17085
N	457m NE	Unspecified Heap	1963	14590
N	460m NE	Unspecified Heap	1864	16562
N	497m NE	Unspecified Heap	1948	15842
N	497m NE	Unspecified Heap	1906	15842

This data is sourced from Ordnance Survey / Groundsure.



2.2 Historical tanks

Records within 500m

20

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 18**

ID	Location	Land Use	Date	Group ID
B	On site	Unspecified Tank	1972	2711
B	On site	Unspecified Tank	1972	2574
B	On site	Unspecified Tank	1993	2711
B	On site	Unspecified Tank	1993	2574
D	92m S	Unspecified Tank	1993	1808
H	301m S	Unspecified Tank	1972	2504
H	302m S	Unspecified Tank	1993	2504
L	384m NE	Tanks	1988	2209
L	384m NE	Tanks	1972	2209
L	401m NE	Unspecified Tank	1988	2795
L	401m NE	Unspecified Tank	1972	2795
L	406m NE	Tanks	1988	2426
L	406m NE	Tanks	1972	2426
M	424m E	Tanks	1988	1996
M	424m E	Unspecified Tank	1972	2692
M	424m E	Unspecified Tank	1988	2692
5	434m S	Tanks	1972	1992
M	434m E	Unspecified Tank	1988	2292
M	435m E	Unspecified Tank	1972	2292
M	449m E	Tanks	1988	1999

This data is sourced from Ordnance Survey / Groundsure.



2.3 Historical energy features

Records within 500m

7

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 18**

ID	Location	Land Use	Date	Group ID
1	57m W	Electricity Substation	1972	431
D	89m SW	Electricity Substation	1972	432
2	220m SE	Power Station	1972	694
G	236m E	Power Station	1988	655
J	260m SE	Power Station	1990	566
J	261m SE	Power Station	1993	566
G	274m E	Power Station	1972	694

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m

0

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m

0

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Waste exemptions

3.1 Active or recent landfill

Records within 500m

0

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.2 Historical landfill (BGS records)

Records within 500m

0

Landfill sites identified on a survey carried out on behalf of the DoE in 1973. These sites may have been closed or operational at this time.

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m**0**

Landfill sites identified from Local Authority records and high detail historical mapping.

This data is sourced from the Ordnance Survey/Groundsure and Local Authority records.

3.4 Historical landfill (EA/NRW records)

Records within 500m**0**

Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.5 Historical waste sites

Records within 500m**0**

Waste site records derived from Local Authority planning records and high detail historical mapping.

This data is sourced from Ordnance Survey/Groundsure and Local Authority records.

3.6 Licensed waste sites

Records within 500m**0**

Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.7 Waste exemptions

Records within 500m**5**

Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on **page 22**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	356m SE	National Grid Gas plc, National Grid, Pembroke Sub Station, Pembroke, West Pennar, SA715SS	NRW-WME025717	Treating waste exemption	Not on a farm	Cleaning, washing, spraying or coating relevant waste
A	356m SE	National Grid Gas plc, National Grid, Pembroke Sub Station, Pembroke, West Pennar, SA715SS	NRW-WME025717	Storing waste exemption	Not on a farm	Storage of waste in a secure place
1	356m N	DCWW, Lambeeth Farm, Pwllcrochan, Pembroke, Sir Benfro, SA71 5TP	NRW-WME047963	Storing waste exemption	Not on a farm	Storage of sludge
B	405m S	Pembroke 21C Community Interest Company, Green Hill Farm, Pwllcrochan, Pembroke, Pembrokeshire, SA715TJ	NRW-WME020124	Storing waste exemption	On a farm	Storage of waste in a secure place
B	405m S	Pembroke 21C Community Interest Company, Green Hill Farm, Pwllcrochan, Pembroke, Pembrokeshire, SA715TJ	NRW-WME020124	Using waste exemption	On a farm	Use of waste in construction

This data is sourced from the Environment Agency and Natural Resources Wales.



4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- Historical licensed industrial activities
- Part A(1) industrial activities
- Licensed Discharges to controlled waters
- Pollutant release to surface waters
- List 1 Dangerous Substances
- List 2 Dangerous Substances

4.1 Recent industrial land uses

Records within 250m

6

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 25**

ID	Location	Company	Address	Activity	Category
B	On site	Tank	Dyfed, SA71	Tanks (Generic)	Industrial Features
B	On site	Tank	Dyfed, SA71	Tanks (Generic)	Industrial Features
1	124m NE	Chimney	Dyfed, SA71	Chimneys	Industrial Features
2	156m NE	Chimney	Dyfed, SA71	Chimneys	Industrial Features



ID	Location	Company	Address	Activity	Category
3	195m NE	Chimney	Dyfed, SA71	Chimneys	Industrial Features
4	238m NE	Chimney	Dyfed, SA71	Chimneys	Industrial Features

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m

0

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m

0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m

0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m

0

Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m

0

Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

This data is sourced from the Health and Safety Executive.



4.7 Regulated explosive sites

Records within 500m

0

Sites registered and licensed by the Health and Safety Executive under the Manufacture and Storage of Explosives Regulations 2005 (MSER). The last update to this data was in April 2011.

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m

0

Consents granted for a site to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015.

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m

3

Integrated Pollution Control (IPC) records of substance releases to air, land and water. This data represents a historical archive as the IPC regime has been superseded.

Features are displayed on the Current industrial land use map on **page 25**

ID	Location	Details	
D	492m E	Operator: Rwe Npower Plc Address: Pembroke Power Station, West Pennar, Pembroke, Dyfed, SA71 5SS Process: Combustion Processes Permit Number: AA2666	Original Permit Number: IPCAIRAPP Date Approved: 8-4-1993 Effective Date: 8-4-1993 Status: Superseded By Variation
D	492m E	Operator: Rwe Npower Plc Address: Pembroke Power Station, West Pennar, Pembroke, Dyfed, SA71 5SS Process: Combustion Processes Permit Number: AN5853	Original Permit Number: IPCMINVAR Date Approved: 1-7-1994 Effective Date: 1-7-1994 Status: Superseded By Variation
D	492m E	Operator: Rwe Npower Plc Address: Pembroke Power Station, West Pennar, Pembroke, Dyfed, SA71 5SS Process: Combustion Processes Permit Number: AX1182	Original Permit Number: IPCMINVAR Date Approved: 17-12-1996 Effective Date: 31-12-1996 Status: Revoked

This data is sourced from the Environment Agency and Natural Resources Wales.



4.10 Licensed industrial activities (Part A(1))

Records within 500m

5

Records of Part A(1) installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on **page 25**

ID	Location	Details	
A	On site	Operator: RWE NPOWER PLC Installation Name: PEMBROKE POWER STATION EPR/DP333TA Process: COMBUSTION; ANY FUEL =>50MW Permit Number: BP3338ZK Original Permit Number: DP3333TA	EPR Reference: - Issue Date: 26/07/2013 Effective Date: 26/07/2013 Last date noted as effective: 17/11/2015 Status: EFFECTIVE
A	On site	Operator: RWE NPOWER PLC Installation Name: PEMBROKE POWER STATION Process: COMBUSTION; ANY FUEL =>50MW Permit Number: DP3333TA Original Permit Number: DP3333TA	EPR Reference: - Issue Date: 10/11/2011 Effective Date: 10/11/2011 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: RWE GENERATION UK PLC Installation Name: PEMBROKE POWER STATION Process: - Permit Number: DP3333TA Original Permit Number: BP3338ZK	EPR Reference: - Issue Date: 27/05/2016 Effective Date: 27/05/2016 Last date noted as effective: 01/12/2016 Status: EFFECTIVE
A	On site	Operator: RWE GENERATION UK PLC Installation Name: PEMBROKE POWER STATION Process: BURNING ANY FUEL IN AN APPLIANCE Permit Number: DP3333TA Original Permit Number: BP3338ZK	EPR Reference: - Issue Date: 27/05/2016 Effective Date: 27/05/2016 Last date noted as effective: 01/04/2018 Status: EFFECTIVE
A	On site	Operator: RWE GENERATION UK PLC Installation Name: PEMBROKE POWER STATION Process: BURNING ANY FUEL IN AN APPLIANCE WITH A RATED THERMAL INPUT OF 50 OR MORE MEGAWATTS Permit Number: DP3333TA Original Permit Number: BP3338ZK	EPR Reference: - Issue Date: 16/10/2020 Effective Date: 16/10/2020 Last date noted as effective: 01/01/2022 Status: EFFECTIVE

This data is sourced from the Environment Agency and Natural Resources Wales.



4.11 Licensed pollutant release (Part A(2)/B)

Records within 500m

0

Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m

0

Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.13 Licensed Discharges to controlled waters

Records within 500m

2

Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991.

Features are displayed on the Current industrial land use map on **page 25**

ID	Location	Address	Details	
5	309m E	PEMBROKE POWER STATION WEST PENNA, PEMBROKE POWER STATION WEST PE, WEST PENNAR, SA71 5SS	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: NPSWQD008613 Permit Version: 1 Receiving Water: MILFORD HAVEN	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY Issue date: 12/01/2010 Effective Date: 12/01/2010 Revocation Date: 31/12/2012
6	375m E	PEMBROKE POWER STATION SITE DRAIN, Pembroke Power Station, WEST PENNAR, PEMBROKE, Pembrokeshire, SA71 5SS	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: HP3820XU Permit Version: 1 Receiving Water: PENNAR GUT	Status: Effective Issue date: 14/06/2011 Effective Date: 14/06/2011 Revocation Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.



4.14 Pollutant release to surface waters (Red List)

Records within 500m

1

Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

Features are displayed on the Current industrial land use map on **page 25**

ID	Location	Address	Details	
C	434m SE	RWE GENERATION UK PLC, PEMBROKE POWER STATION SITE DRAIN, PEMBROKE POWER STATION, WEST PENNAR, PEMBROKE, PEMBROKESHIRE, SA71 5SS	Permit Number: HP3820XU Permit Version: 0 Status: Effective Discharge Type: -	Effluent Type: Trade Catchment: PENNAR GUT Approval Date: 2011-06-14T00:00:00.000Z

This data is sourced from the Environment Agency and Natural Resources Wales.

4.15 Pollutant release to public sewer

Records within 500m

0

Discharges of Special Category Effluents to the public sewer.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.16 List 1 Dangerous Substances

Records within 500m

1

Discharges of substances identified on List I of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

Features are displayed on the Current industrial land use map on **page 25**

ID	Location	Name	Status	Receiving Water	Authorised Substances
C	435m SE	Pembroke Power Station Site Drainage	Active	Milford Haven, Any	Mercury (other), Cadmium

This data is sourced from the Environment Agency and Natural Resources Wales.

4.17 List 2 Dangerous Substances

Records within 500m

1

Discharges of substances identified on List II of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

Features are displayed on the Current industrial land use map on **page 25**



ID	Location	Name	Status	Receiving Water	Authorised Substances
C	435m SE	Pembroke Power Station Site Drainage	Active	Milford Haven	Arsenic, Copper, Lead, Nickel, pH, Vanadium, Zinc

This data is sourced from the Environment Agency and Natural Resources Wales.

4.18 Pollution Incidents (EA/NRW)

Records within 500m

0

Records of substantiated pollution incidents. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.19 Pollution inventory substances

Records within 500m

0

The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.20 Pollution inventory waste transfers

Records within 500m

0

The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.21 Pollution inventory radioactive waste

Records within 500m

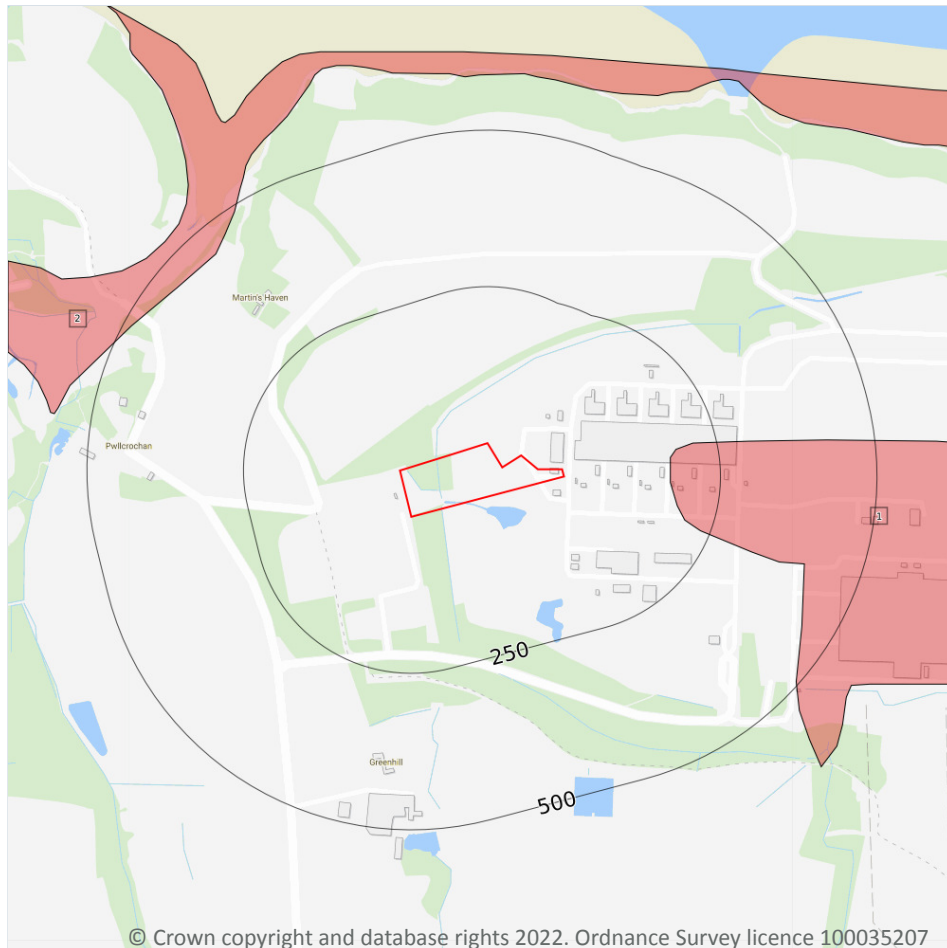
0

The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.



5 Hydrogeology - Superficial aquifer



- Site Outline
- Search buffers in metres (m)
- Principal
 - Secondary A
 - Secondary B
 - Secondary Undifferentiated
 - Unproductive
 - Unknown

5.1 Superficial aquifer

Records within 500m

2

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 32**

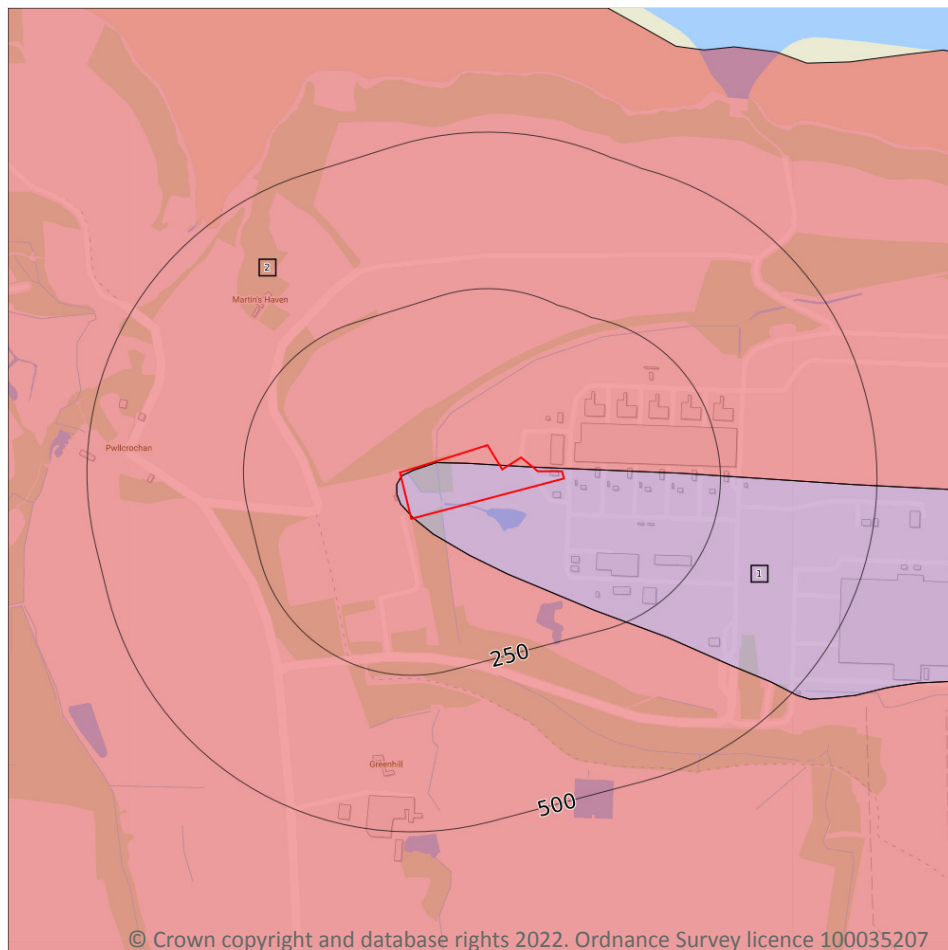
ID	Location	Designation	Description
1	170m E	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	454m NW	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers



This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.



Bedrock aquifer



- Site Outline
- Search buffers in metres (m)
- Principal
 - Secondary A
 - Secondary B
 - Secondary Undifferentiated
 - Unproductive

5.2 Bedrock aquifer

Records within 500m

2

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 34**

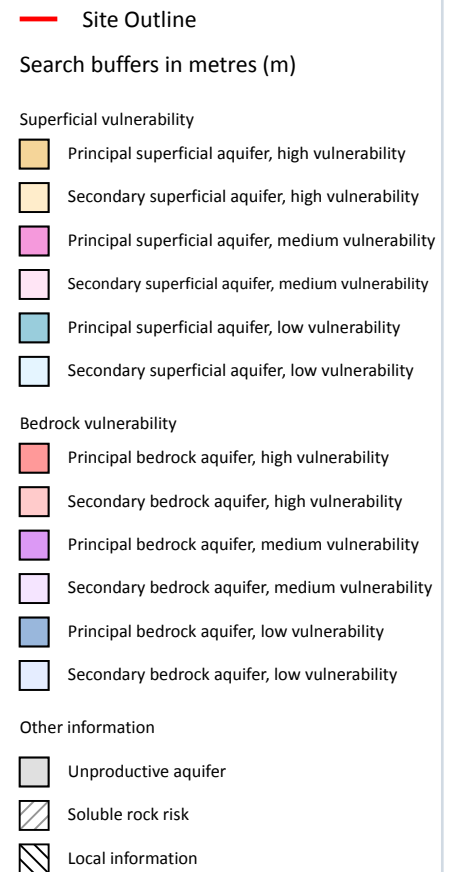
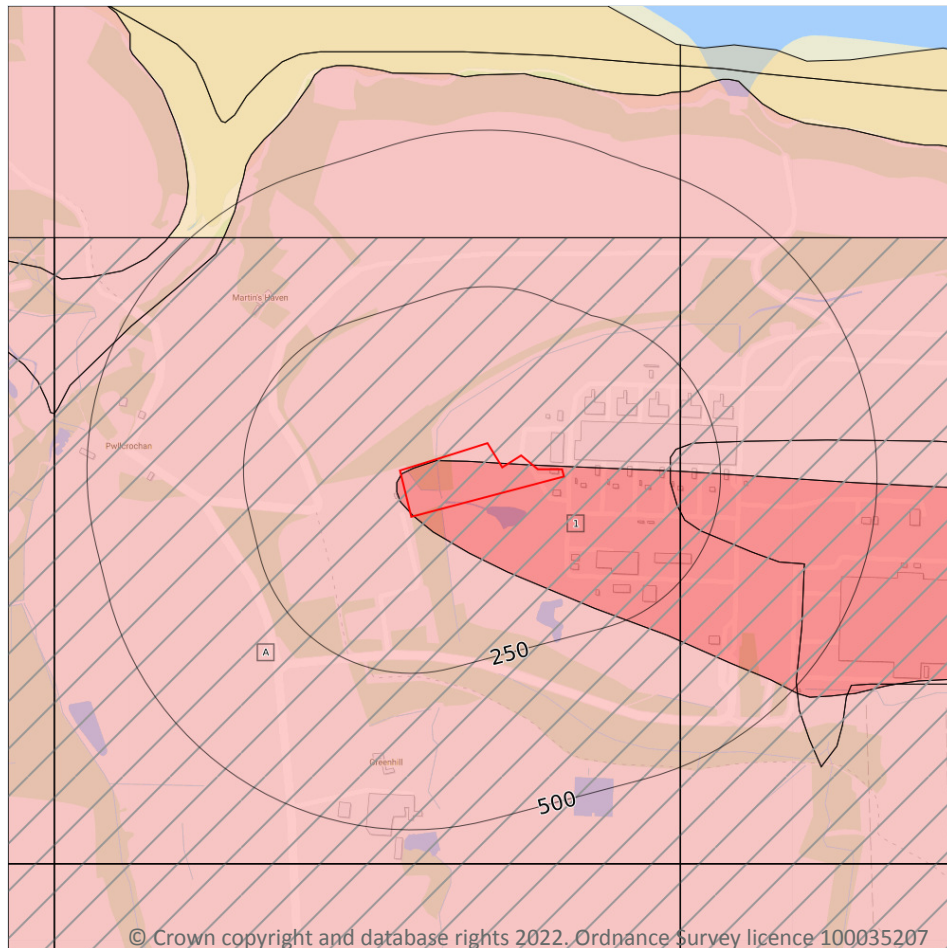
ID	Location	Designation	Description
1	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
2	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers



This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.



Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

2

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid. Groundwater vulnerability is described as High, Medium or Low as follows:

- High - Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits.
- Medium - Intermediate between high and low vulnerability.
- Low - Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

Features are displayed on the Groundwater vulnerability map on **page 36**



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
A	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

5.4 Groundwater vulnerability- soluble rock risk

Records on site	1
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This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

ID	Maximum soluble risk category	Percentage of grid square covered by maximum risk
A	Significant soluble rocks are likely to be present. Low possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, but may be possible in adverse conditions such as high surface or subsurface water flow.	1.0%

This data is sourced from the British Geological Survey and the Environment Agency.

5.5 Groundwater vulnerability- local information

Records on site	0
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This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on enquiries@environment-agency.gov.uk.

This data is sourced from the British Geological Survey and the Environment Agency.

Abstractions and Source Protection Zones



- Site Outline
- Search buffers in metres (m)
- Source Protection Zone 1
Inner catchment
- Source Protection Zone 2
Outer catchment
- Source Protection Zone 3
Total catchment
- Source Protection Zone 4
Zone of Special Interest
- Source Protection Zone 1c
Inner catchment - confined aquifer
- Source Protection Zone 2c
Outer catchment - confined aquifer
- Source Protection Zone 3c
Total catchment - confined aquifer
- Drinking water abstraction licences
Point features
- Drinking water abstraction licences
Polygon features
- Drinking water abstraction licences
Linear features
- Groundwater abstraction licence (point)
- Groundwater abstraction licence (area)
- Groundwater abstraction licence (linear)
- Surface Water Abstractions (point)
- Surface Water Abstractions (area)
- Surface Water Abstractions (linear)

5.6 Groundwater abstractions

Records within 2000m

0

Licensed groundwater abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, between two points (line data) or a larger area.

This data is sourced from the Environment Agency and Natural Resources Wales.



5.7 Surface water abstractions

Records within 2000m

15

Licensed surface water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 38**

ID	Location	Details	
A	618m SW	Status: Historical Licence No: 22/61/6/0081 Details: Spray Irrigation - Storage Direct Source: EAW Surface Water Point: RESERVOIR FILLED BY STREAM IN FIELD NO.2400, GREENHILL FARM Data Type: Point Name: RWE Npower plc Easting: 192050 Northing: 202220	Annual Volume (m ³): 6060 Max Daily Volume (m ³): 1206 Original Application No: - Original Start Date: 28/06/1988 Expiry Date: - Issue No: 102 Version Start Date: 24/11/2011 Version End Date: -
A	618m SW	Status: Active Licence No: 22/61/6/0081 Details: Spray Irrigation - Storage - High Direct Source: Reservoir South-East of Greenhill Farm Point: - Data Type: Point Name: - Easting: 192050 Northing: 202220	Annual Volume (m ³): 6,060 Max Daily Volume (m ³): 1,255.20 Original Application No: - Original Start Date: Sep 2 2016 12:00AM Expiry Date: Mar 31 2025 12:00AM Issue No: - Version Start Date: - Version End Date: -
A	628m SW	Status: Active Licence No: 22/61/6/0147 Details: Unknown (Impounding) - Direct Source: - Point: - Data Type: Point Name: - Easting: 192020 Northing: 202250	Annual Volume (m ³): 0 Max Daily Volume (m ³): - Original Application No: - Original Start Date: Apr 1 2007 12:00AM Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
A	635m SW	Status: Historical Licence No: 22/61/6/0081 Details: Spray Irrigation - Storage Direct Source: EAW Surface Water Point: RESERVOIR FILLED BY STREAM IN FIELD NO.2400, GREENHILL FARM Data Type: Point Name: Kenniford Easting: 192050 Northing: 202190	Annual Volume (m ³): 6059.8 Max Daily Volume (m ³): 1205.6 Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 28/06/1988 Version End Date: -



ID	Location	Details	
-	798m S	Status: Active Licence No: 22/61/6/0144 Details: Unknown (Impounding) - Direct Source: - Point: - Data Type: Point Name: - Easting: 192880 Northing: 201810	Annual Volume (m ³): 0 Max Daily Volume (m ³): - Original Application No: - Original Start Date: Apr 1 2007 12:00AM Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	800m S	Status: Historical Licence No: 22/61/6/0064 Details: Spray Irrigation - Storage Direct Source: EAW Surface Water Point: RESERVOIR IN FIELD NO.0556 AT GREENHILL FARM. Data Type: Point Name: RWE Npower plc Easting: 192850 Northing: 201800	Annual Volume (m ³): 4546 Max Daily Volume (m ³): 4546 Original Application No: - Original Start Date: 19/07/1984 Expiry Date: - Issue No: 102 Version Start Date: 24/11/2011 Version End Date: -
-	800m S	Status: Active Licence No: 22/61/6/0064 Details: Spray Irrigation - Storage - High Direct Source: Reservoir South-East of Greenhill Farm. Point: - Data Type: Point Name: - Easting: 192850 Northing: 201800	Annual Volume (m ³): 4,546 Max Daily Volume (m ³): - Original Application No: - Original Start Date: Sep 2 2016 12:00AM Expiry Date: Mar 30 2025 12:00AM Issue No: - Version Start Date: - Version End Date: -
-	836m E	Status: Active Licence No: 22/61/6/0156 Details: Non Evaporative Cooling - Low Direct Source: - Point: - Data Type: Line Name: - Easting: 193650 Northing: 202650	Annual Volume (m ³): 1,200,000,000 Max Daily Volume (m ³): 3,456,000 Original Application No: - Original Start Date: Oct 13 2014 12:00AM Expiry Date: Mar 31 2025 12:00AM Issue No: - Version Start Date: - Version End Date: -
-	1719m SW	Status: Historical Licence No: 22/61/6/0040 Details: Spray Irrigation - Storage Direct Source: EAW Surface Water Point: RESERVOIR FILLED BY UNNAMED STREAM Data Type: Point Name: Allen-Mirehouse Easting: 191090 Northing: 201680	Annual Volume (m ³): 7545.5 Max Daily Volume (m ³): 7545.5 Original Application No: - Original Start Date: 05/08/1997 Expiry Date: - Issue No: 100 Version Start Date: 31/03/2005 Version End Date: -



ID	Location	Details	
-	1719m SW	Status: Active Licence No: 22/61/6/0040 Details: Spray Irrigation - Storage - High Direct Source: - Point: - Data Type: Point Name: - Easting: 191090 Northing: 201680	Annual Volume (m ³): 7,545.50 Max Daily Volume (m ³): - Original Application No: - Original Start Date: Mar 31 2005 12:00AM Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1852m SW	Status: Historical Licence No: 22/61/6/0068 Details: Spray Irrigation - Storage Direct Source: EAW Surface Water Point: RESERVOIR CAPACITY 3MG IN FIELD NO. OS 8100 AT HOPLASS Data Type: Point Name: Kenniford Easting: 191820 Northing: 200860	Annual Volume (m ³): 13638 Max Daily Volume (m ³): 819 Original Application No: - Original Start Date: 24/05/1985 Expiry Date: - Issue No: 101 Version Start Date: 01/04/2007 Version End Date: -
-	1852m SW	Status: Active Licence No: 22/61/6/0068 Details: Spray Irrigation - Storage - High Direct Source: - Point: - Data Type: Point Name: - Easting: 191820 Northing: 200860	Annual Volume (m ³): 13,638 Max Daily Volume (m ³): 1,320 Original Application No: - Original Start Date: Apr 1 2007 12:00AM Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1859m SW	Status: Active Licence No: 22/61/6/0135 Details: Unknown (Impounding) - Direct Source: - Point: - Data Type: Point Name: - Easting: 191740 Northing: 200890	Annual Volume (m ³): 0 Max Daily Volume (m ³): - Original Application No: - Original Start Date: Apr 1 2007 12:00AM Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1864m SW	Status: Historical Licence No: 22/61/6/0068 Details: Spray Irrigation - Storage Direct Source: EAW Surface Water Point: RESERVOIR CAPACITY 3MG IN FIELD NO. OS 8100 AT HOPLASS Data Type: Point Name: Kenniford Easting: 191750 Northing: 200880	Annual Volume (m ³): 13638 Max Daily Volume (m ³): 818.28 Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 24/05/1985 Version End Date: -



ID	Location	Details	
-	1907m S	Status: Historical Licence No: 22/61/6/0069 Details: Spray Irrigation - Storage Direct Source: EAW Surface Water Point: UNNAMED STREAM IN FIELD NO. 3553, TO FILL RESERVOIR Data Type: Point Name: Woods Easting: 191950 Northing: 200750	Annual Volume (m ³): 13638 Max Daily Volume (m ³): 13638 Original Application No: - Original Start Date: 21/08/1990 Expiry Date: - Issue No: 101 Version Start Date: 01/04/2007 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.8 Potable abstractions

Records within 2000m	0
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Licensed potable water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

This data is sourced from the Environment Agency and Natural Resources Wales.

5.9 Source Protection Zones

Records within 500m	0
----------------------------	----------

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

This data is sourced from the Environment Agency and Natural Resources Wales.

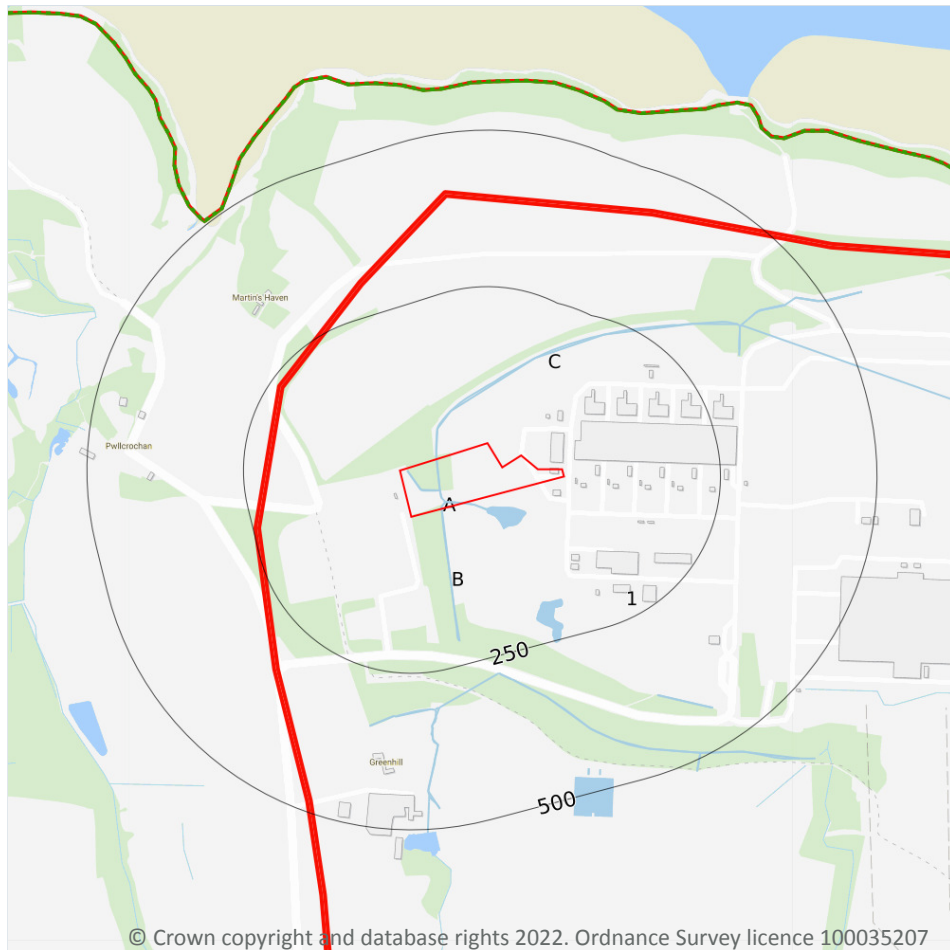
5.10 Source Protection Zones (confined aquifer)

Records within 500m	0
----------------------------	----------

Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.

This data is sourced from the Environment Agency and Natural Resources Wales.

6 Hydrology



- Site Outline
- Search buffers in metres (m)
- Water Network (OS MasterMap)
- Surface water features (wider than 5m)
- Surface water features (narrower than 5m)
- ⋯ WFD River, canal and surface water transfer water bodies
- WFD Lake water bodies
- WFD Transitional and coastal water bodies
- WFD Surface water body catchments boundaries
- WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m

5

Detailed water network of Great Britain showing the flow and precise central course of every river, stream, lake and canal.

Features are displayed on the Hydrology map on **page 43**

ID	Location	Type of water feature	Ground level	Permanence	Name
A	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
A	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	2
----------------------------	----------

Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.

Features are displayed on the Hydrology map on **page 43**

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site	1
------------------------	----------

The Water Framework Directive is an EU-led framework for the protection of inland surface waters, estuaries, coastal waters and groundwater through river basin-level management planning. In terms of surface water, these basins are broken down into smaller units known as management, operational and water body catchments.

Features are displayed on the Hydrology map on **page 43**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
1	On site	Coastal catchment	Not part of a river WB catchment	163	Coastal streams of South Pembs and South Milford Haven - Pendine to Landshipping	Cleddau and Pembrokeshire Coastal Rivers

This data is sourced from the Environment Agency and Natural Resources Wales.



6.4 WFD Surface water bodies

Records identified

0

Surface water bodies under the Directive may be rivers, lakes, estuary or coastal. To achieve the purpose of the Directive, environmental objectives have been set and are reported on for each water body. The progress towards delivery of the objectives is then reported on by the relevant competent authorities at the end of each six-year cycle. The river water body directly associated with the catchment listed in the previous section is detailed below, along with any lake, canal, coastal or artificial water body within 250m of the site.

This data is sourced from the Environment Agency and Natural Resources Wales.

6.5 WFD Groundwater bodies

Records on site

1

Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place.

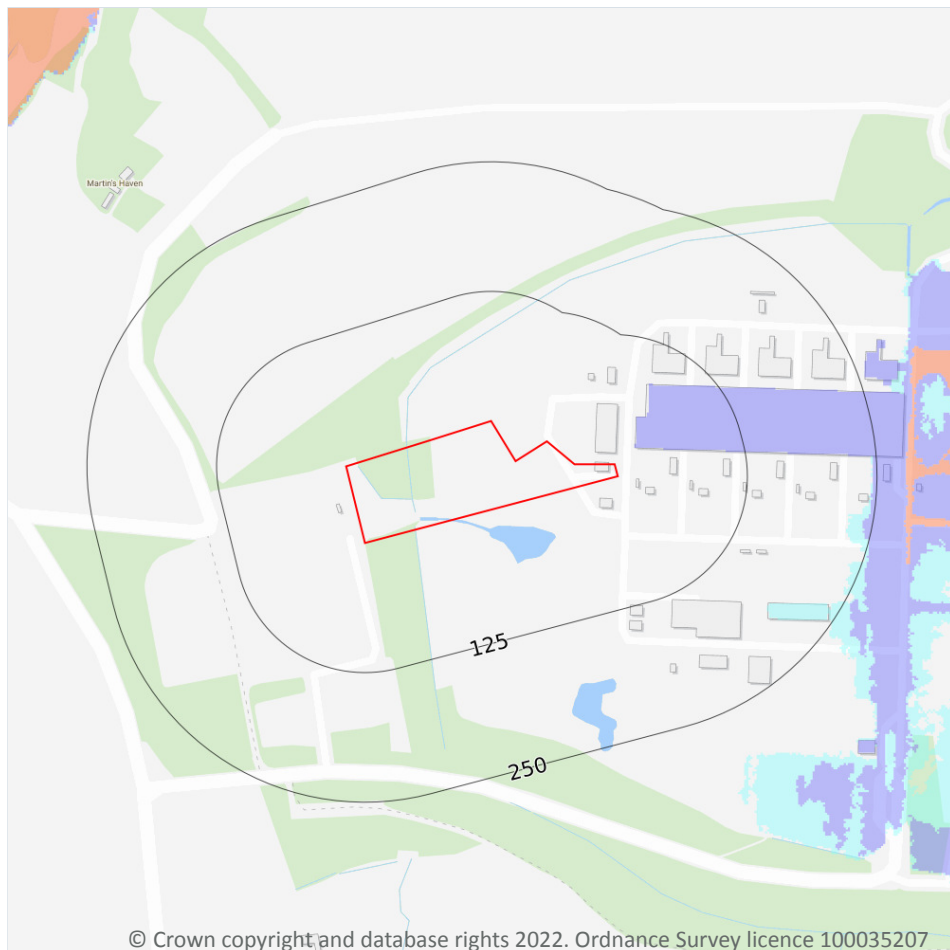
Features are displayed on the Hydrology map on **page 43**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	On site	Pembrokeshire Carboniferous Limestone	GB41002G206000	Good	Good	Good	2017

This data is sourced from the Environment Agency and Natural Resources Wales.



7 River and coastal flooding



- Site Outline
- Search buffers in metres (m)
- River and coastal flooding:
- High
- Medium
- Low
- Very Low
- Historical Flood Events
- Areas Used for Flood Storage
- Areas Benefiting from Flood Defences
- Flood Defences

7.1 Risk of flooding from rivers and the sea

Records within 50m

1

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m within the Risk of Flooding from Rivers and Sea (RoFRaS)/Flood Risk Assessment Wales (FRAW) models. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition. The risk categories for RoFRaS for rivers and the sea and FRAW for rivers are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 100 chance) or High (greater than or equal to 1 in 30 chance). The risk categories for FRAW for the sea are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 200 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 200 chance) or High (greater than or equal to 1 in 30 chance).

Features are displayed on the River and coastal flooding map on **page 46**

Distance	Flood risk category
On site	N/A
0 - 50m	Medium

This data is sourced from the Environment Agency and Natural Resources Wales.

7.2 Historical Flood Events

Records within 250m	0
----------------------------	----------

Records of historic flooding from rivers, the sea, groundwater and surface water. Records began in 1946 when predecessor bodies started collecting detailed information about flooding incidents, although limited details may be included on flooding incidents prior to this date. Takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, and includes flood extents that may have been affected by overtopping, breaches or blockages.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.3 Flood Defences

Records within 250m	0
----------------------------	----------

Records of flood defences owned, managed or inspected by the Environment Agency and Natural Resources Wales. Flood defences can be structures, buildings or parts of buildings. Typically these are earth banks, stone and concrete walls, or sheet-piling that is used to prevent or control the extent of flooding.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.4 Areas Benefiting from Flood Defences

Records within 250m	0
----------------------------	----------

Areas that would benefit from the presence of flood defences in a 1 in 100 (1%) chance of flooding each year from rivers or 1 in 200 (0.5%) chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.5 Flood Storage Areas

Records within 250m	0
----------------------------	----------

Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.

This data is sourced from the Environment Agency and Natural Resources Wales.

River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m

0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land between Flood Zone 3 (see next section) and the extent of the flooding from rivers or the sea with a 1 in 1000 (0.1%) chance of flooding each year.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.7 Flood Zone 3

Records within 50m

0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.



8 Surface water flooding



— Site Outline

Search buffers in metres (m)

1 in 1000 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 250 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 100 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 30 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

8.1 Surface water flooding

Highest risk on site

1 in 30 year, 0.1m - 0.3m

Highest risk within 50m

1 in 30 year, 0.1m - 0.3m

Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year rainfall events. Modern urban drainage systems are typically built to cope with rainfall events between 1 in 20 and 1 in 30 years, though some older ones may flood in a 1 in 5 year rainfall event.

Features are displayed on the Surface water flooding map on **page 49**

The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

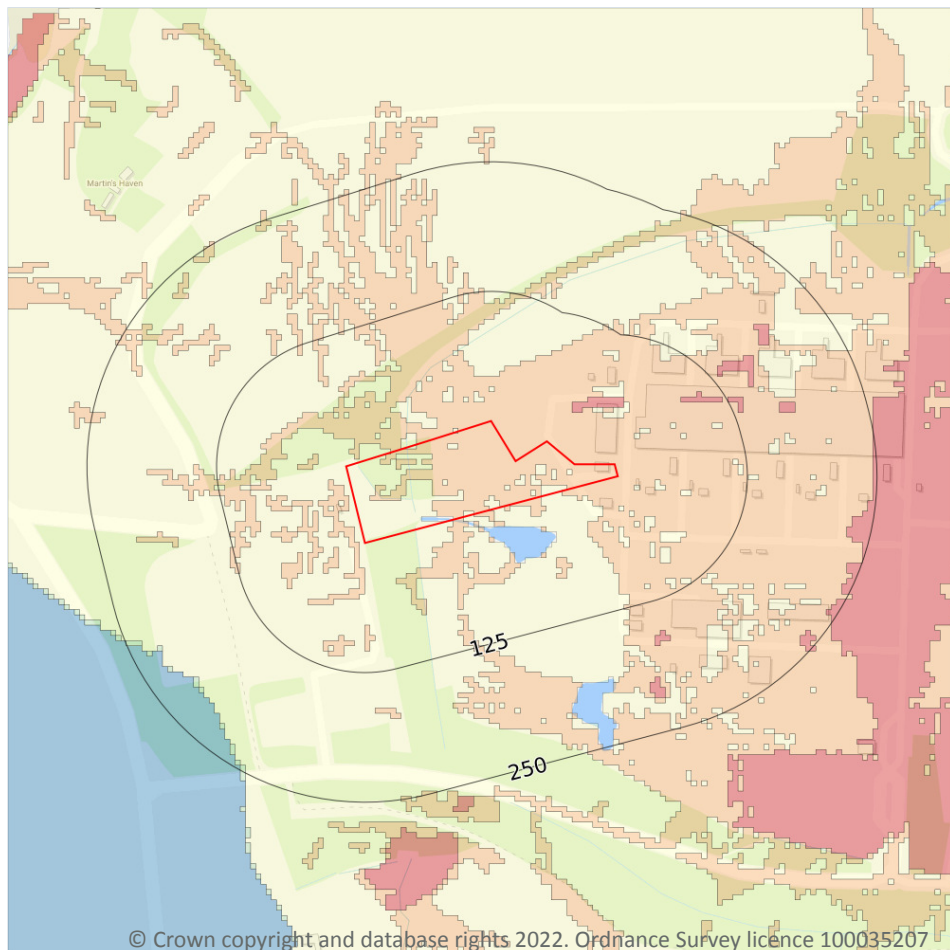
The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Between 0.3m and 1.0m
1 in 250 year	Between 0.3m and 1.0m
1 in 100 year	Between 0.1m and 0.3m
1 in 30 year	Between 0.1m and 0.3m

This data is sourced from Ambiantal Risk Analytics.



9 Groundwater flooding



— Site Outline
Search buffers in metres (m)

- High
- Moderate - High
- Moderate
- Low
- Negligible

9.1 Groundwater flooding

Highest risk on site

Moderate-High

Highest risk within 50m

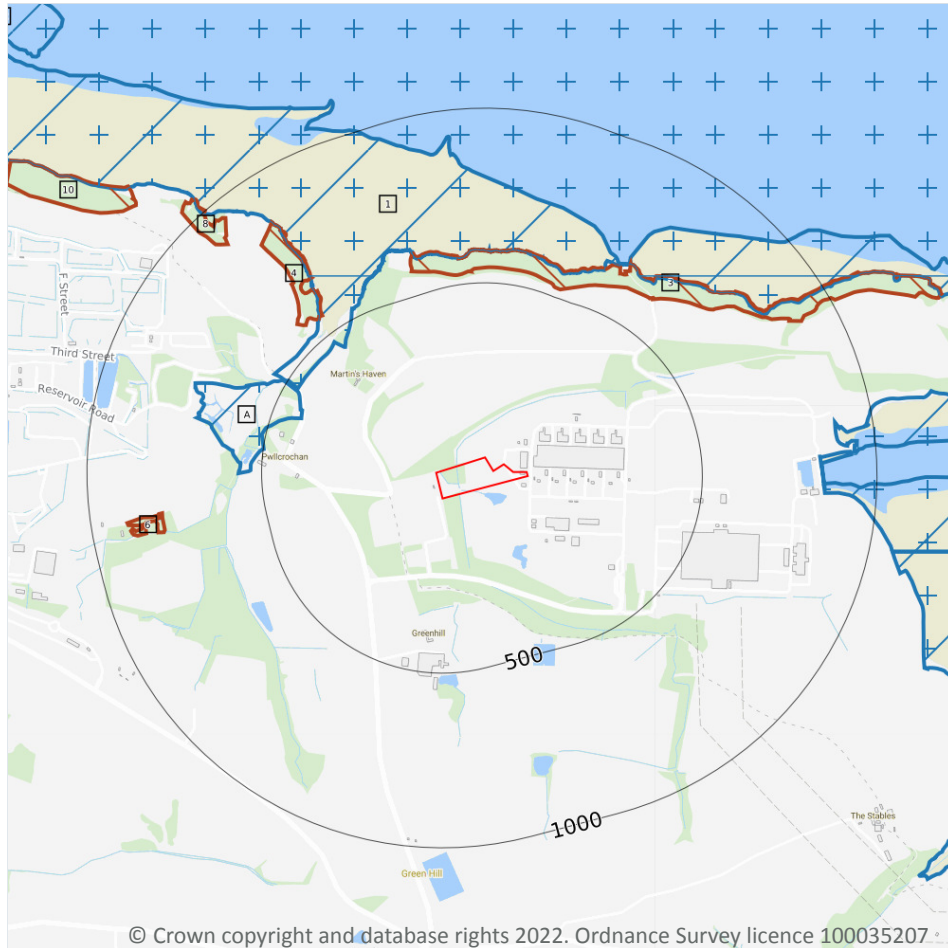
High

Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on **page 51**

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- Sites of Special Scientific Interest (SSSI)
- + Special Areas of Conservation (SAC)
- / Designated Ancient Woodland

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

7

Sites providing statutory protection for the best examples of UK flora, fauna, or geological or physiographical features. Originally notified under the National Parks and Access to the Countryside Act 1949, SSSIs were re-notified under the Wildlife and Countryside Act 1981. Improved provisions for the protection and management of SSSIs were introduced by the Countryside and Rights of Way Act 2000 (in England and Wales) and (in Scotland) by the Nature Conservation (Scotland) Act 2004 and the Wildlife and Natural Environment (Scotland) Act 2010.

Features are displayed on the Environmental designations map on **page 52**

ID	Location	Name	Data source
A	416m W	MILFORD HAVEN WATERWAY	Natural Resources Wales



ID	Location	Name	Data source
1	444m NW	MILFORD HAVEN WATERWAY	Natural Resources Wales
7	839m E	MILFORD HAVEN WATERWAY	Natural Resources Wales
9	1066m E	MILFORD HAVEN WATERWAY	Natural Resources Wales
12	1651m NW	MILFORD HAVEN WATERWAY	Natural Resources Wales
-	1791m N	MILFORD HAVEN WATERWAY	Natural Resources Wales
-	1833m S	GWEUNYDD SOMERTON MEADOWS	Natural Resources Wales

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	0
-----------------------------	----------

Ramsar sites are designated under the Convention on Wetlands of International Importance, agreed in Ramsar, Iran, in 1971. They cover all aspects of wetland conservation and wise use, recognizing wetlands as ecosystems that are extremely important for biodiversity conservation in general and for the well-being of human communities. These sites cover a broad definition of wetland; marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, and even some marine areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.3 Special Areas of Conservation (SAC)

Records within 2000m	3
-----------------------------	----------

Areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive.

Features are displayed on the Environmental designations map on **page 52**

ID	Location	Name	Features of interest	Habitat description	Data source
A	416m W	Pembrokeshire Marine / Sir Benfro Forol	Subtidal sandbanks; Estuaries; Intertidal mudflats and sandflats; Lagoons; Shallow inlets and bays; Reefs; Atlantic salt meadows; Sea caves; Sea lamprey; River lamprey; Allis shad; Twaite shad; Bottlenose dolphin; Harbour porpoise; Otter; Grey seal; Shore dock.	Salt marshes, Salt pastures, Salt steppes; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Marine areas, Sea inlets	Natural Resources Wales

ID	Location	Name	Features of interest	Habitat description	Data source
2	444m NW	Pembrokeshire Marine / Sir Benfro Forol	Subtidal sandbanks; Estuaries; Intertidal mudflats and sandflats; Lagoons; Shallow inlets and bays; Reefs; Atlantic salt meadows; Sea caves; Sea lamprey; River lamprey; Allis shad; Twaite shad; Bottlenose dolphin; Harbour porpoise; Otter; Grey seal; Shore dock.	Salt marshes, Salt pastures, Salt steppes; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Marine areas, Sea inlets	Natural Resources Wales
5	572m N	Pembrokeshire Marine / Sir Benfro Forol	Subtidal sandbanks; Estuaries; Intertidal mudflats and sandflats; Lagoons; Shallow inlets and bays; Reefs; Atlantic salt meadows; Sea caves; Sea lamprey; River lamprey; Allis shad; Twaite shad; Bottlenose dolphin; Harbour porpoise; Otter; Grey seal; Shore dock.	Salt marshes, Salt pastures, Salt steppes; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Marine areas, Sea inlets	Natural Resources Wales

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.4 Special Protection Areas (SPA)

Records within 2000m

0

Sites classified by the UK Government under the EC Birds Directive, SPAs are areas of the most important habitat for rare (listed on Annex I to the Directive) and migratory birds within the European Union.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.5 National Nature Reserves (NNR)

Records within 2000m

0

Sites containing examples of some of the most important natural and semi-natural terrestrial and coastal ecosystems in Great Britain. They are managed to conserve their habitats, provide special opportunities for scientific study or to provide public recreation compatible with natural heritage interests.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.6 Local Nature Reserves (LNR)

Records within 2000m

0

Sites managed for nature conservation, and to provide opportunities for research and education, or simply enjoying and having contact with nature. They are declared by local authorities under the National Parks and Access to the Countryside Act 1949 after consultation with the relevant statutory nature conservation agency.



This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.7 Designated Ancient Woodland

Records within 2000m

7

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

Features are displayed on the Environmental designations map on **page 52**

ID	Location	Name	Woodland Type
3	526m N	Unknown	Ancient Semi Natural Woodland
4	553m NW	Unknown	Restored Ancient Woodland Site
6	793m W	Unknown	Ancient Semi Natural Woodland
8	886m NW	Unknown	Restored Ancient Woodland Site
10	1151m NW	Unknown	Restored Ancient Woodland Site
-	1642m S	Unknown	Ancient Semi Natural Woodland
-	1894m W	Unknown	Ancient Semi Natural Woodland

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.8 Biosphere Reserves

Records within 2000m

0

Biosphere Reserves are internationally recognised by UNESCO as sites of excellence to balance conservation and socioeconomic development between nature and people. They are recognised under the Man and the Biosphere (MAB) Programme with the aim of promoting sustainable development founded on the work of the local community.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.9 Forest Parks

Records within 2000m

0

These are areas managed by the Forestry Commission designated on the basis of recreational, conservation or scenic interest.

This data is sourced from the Forestry Commission.



10.10 Marine Conservation Zones

Records within 2000m

0

A type of marine nature reserve in UK waters established under the Marine and Coastal Access Act (2009). They are designated with the aim to protect nationally important, rare or threatened habitats and species.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.11 Green Belt

Records within 2000m

0

Areas designated to prevent urban sprawl by keeping land permanently open.

This data is sourced from the Ministry of Housing, Communities and Local Government.

10.12 Proposed Ramsar sites

Records within 2000m

0

Ramsar sites are areas listed as a Wetland of International Importance under the Convention on Wetlands of International Importance especially as Waterfowl Habitat (the Ramsar Convention) 1971. The sites here supplied have a status of 'Proposed' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m

0

Special Areas of Conservation are areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive. Those sites supplied here are those with a status of 'Possible' having been identified for potential adoption under the framework.

This data is sourced from Natural England and Natural Resources Wales.

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m

0

Special Protection Areas (SPAs) are areas designated (or 'classified') under the European Union Wild Birds Directive for the protection of nationally and internationally important populations of wild birds. Those sites supplied here are those with a status of 'Potential' having been identified for potential adoption under the framework.

This data is sourced from Natural England.



10.15 Nitrate Sensitive Areas

Records within 2000m

0

Areas where nitrate concentrations in drinking water sources exceeded or was at risk of exceeding the limit of 50 mg/l set by the 1980 EC Drinking Water Directive. Voluntary agricultural measures as a means of reducing the levels of nitrate were introduced by DEFRA as MAFF, with payments being made to farmers who complied. The scheme was started as a pilot in 1990 in ten areas, later implemented within 32 areas. The scheme was closed to further new entrants in 1998, although existing agreements continued for their full term. All Nitrate Sensitive Areas fell within the areas designated as Nitrate Vulnerable Zones (NVZs) in 1996 under the EC Nitrate Directive (91/676/EEC).

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m

0

Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

This data is sourced from Natural England and Natural Resources Wales.



SSSI Impact Zones and Units

10.17 SSSI Impact Risk Zones

Records on site

0

Developed to allow rapid initial assessment of the potential risks to SSSIs posed by development proposals. They define zones around each SSSI which reflect the particular sensitivities of the features for which it is notified and indicate the types of development proposal which could potentially have adverse impacts.

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m

0

Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

This data is sourced from Natural England and Natural Resources Wales.



11 Visual and cultural designations

11.1 World Heritage Sites

Records within 250m

0

Sites designated for their globally important cultural or natural interest requiring appropriate management and protection measures. World Heritage Sites are designated to meet the UK's commitments under the World Heritage Convention.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

Areas of Outstanding Natural Beauty (AONB) are conservation areas, chosen because they represent 18% of the finest countryside. Each AONB has been designated for special attention because of the quality of their flora, fauna, historical and cultural associations, and/or scenic views. The National Parks and Access to the Countryside Act of 1949 created AONBs and the Countryside and Rights of Way Act, 2000 added further regulation and protection. There are likely to be restrictions to some developments within these areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.3 National Parks

Records within 250m

0

In England and Wales, the purpose of National Parks is to conserve and enhance landscapes within the countryside whilst promoting public enjoyment of them and having regard for the social and economic well-being of those living within them. In Scotland National Parks have the additional purpose of promoting the sustainable use of the natural resources of the area and the sustainable social and economic development of its communities. The National Parks and Access to the Countryside Act 1949 established the National Park designation in England and Wales, and The National Parks (Scotland) Act 2000 in Scotland.

This data is sourced from Natural England, Natural Resources Wales and the Scottish Government.

11.4 Listed Buildings

Records within 250m

0

Buildings listed for their special architectural or historical interest. Building control in the form of 'listed building consent' is required in order to make any changes to that building which might affect its special interest. Listed buildings are graded to indicate their relative importance, however building controls apply to all buildings equally, irrespective of their grade, and apply to the interior and exterior of the building in its entirety, together with any curtilage structures.



This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.5 Conservation Areas

Records within 250m

0

Local planning authorities are obliged to designate as conservation areas any parts of their own area that are of special architectural or historic interest, the character and appearance of which it is desirable to preserve or enhance. Designation of a conservation area gives broader protection than the listing of individual buildings. All the features within the area, listed or otherwise, are recognised as part of its character. Conservation area designation is the means of recognising the importance of all factors and of ensuring that planning decisions address the quality of the landscape in its broadest sense.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.6 Scheduled Ancient Monuments

Records within 250m

0

A scheduled monument is an historic building or site that is included in the Schedule of Monuments kept by the Secretary of State for Digital, Culture, Media and Sport. The regime is set out in the Ancient Monuments and Archaeological Areas Act 1979. The Schedule of Monuments has c.20,000 entries and includes sites such as Roman remains, burial mounds, castles, bridges, earthworks, the remains of deserted villages and industrial sites. Monuments are not graded, but all are, by definition, considered to be of national importance.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.7 Registered Parks and Gardens

Records within 250m

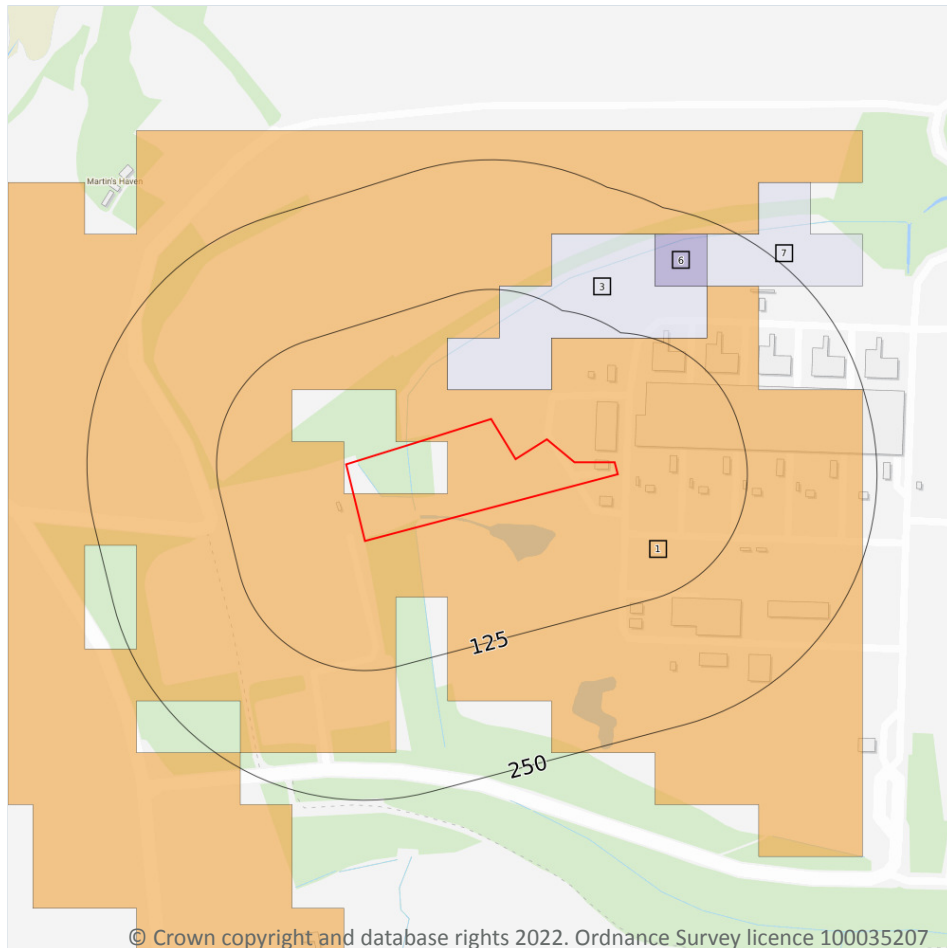
0

Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process, meaning that planning authorities must consider the impact of any proposed development on the special character of the landscape.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.



12 Agricultural designations



- Site Outline
- Search buffers in metres (m)
- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Timber felling licences
- Open Access land

12.1 Agricultural Land Classification

Records within 250m

4

Classification of the quality of agricultural land taking into consideration multiple factors including climate, physical geography and soil properties. It should be noted that the categories for the grading of agricultural land are not consistent across England, Wales and Scotland.

Features are displayed on the Agricultural designations map on **page 61**

ID	Location	Classification	Description
1	On site	Grade 2	Good quality agricultural land
3	28m N	Grade 3b	Moderate quality agricultural land
6	174m N	Grade 4	Poor quality agricultural land



ID	Location	Classification	Description
7	192m NE	Grade 3b	Moderate quality agricultural land

This data is sourced from Natural Resources Wales.

12.2 Open Access Land

Records within 250m

0

The Countryside and Rights of Way Act 2000 (CROW Act) gives a public right of access to land without having to use paths. Access land includes mountains, moors, heaths and downs that are privately owned. It also includes common land registered with the local council and some land around the England Coast Path. Generally permitted activities on access land are walking, running, watching wildlife and climbing.

This data is sourced from Natural England and Natural Resources Wales.

12.3 Tree Felling Licences

Records within 250m

0

Felling Licence Application (FLA) areas approved by Forestry Commission England. Anyone wishing to fell trees must ensure that a licence or permission under a grant scheme has been issued by the Forestry Commission before any felling is carried out or that one of the exceptions apply.

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m

0

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. The schemes identified may be historical schemes that have now expired, or may still be active.

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m

0

Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

This data is sourced from Natural England.



13 Habitat designations

13.1 Priority Habitat Inventory

Records within 250m

0

Habitats of principal importance as named under Natural Environment and Rural Communities Act (2006) Section 41.

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

0

Habitat networks for 18 priority habitat networks (based primarily, but not exclusively, on the priority habitat inventory) and areas suitable for the expansion of networks through restoration and habitat creation.

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m

0

Sites verified as Open Mosaic Habitat. Mosaic habitats are brownfield sites that are identified under the UK Biodiversity Action Plan as a priority habitat due to the habitat variation within a single site, supporting an array of invertebrates.

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m

0

Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



- Site Outline
- Search buffers in metres (m)
- Full coverage
 - Partial coverage
 - No coverage

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14.1 10k Availability

Records within 500m

1

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 64**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	No coverage	No coverage	No coverage	NoCov

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

0

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.

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial

14.3 Superficial geology (10k)

Records within 500m

0

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.

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

14.5 Bedrock geology (10k)

Records within 500m

0

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.

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

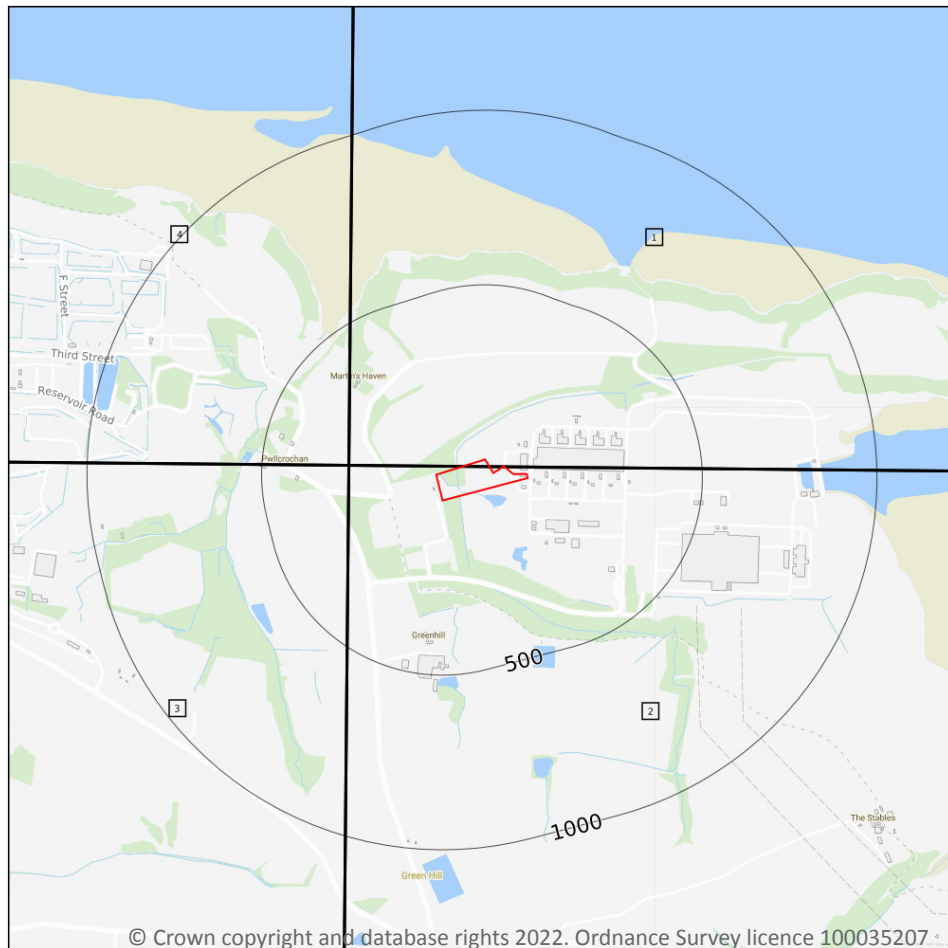
Records within 500m

0

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.

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

4

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 68**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	No coverage	EW228_haverfordwest_v4
2	On site	No coverage	Full	Full	No coverage	EW244_245_pembroke_and_linney_head_v4
3	250m W	No coverage	Full	Full	No coverage	EW244_245_pembroke_and_linney_head_v4



ID	Location	Artificial	Superficia l	Bedrock	Mass movement	Sheet No.
4	252m W	No coverage	Full	Full	No coverage	EW227_milford_v4

This data is sourced from the British Geological Survey.



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

15.2 Artificial and made ground (50k)

Records within 500m

0

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.

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

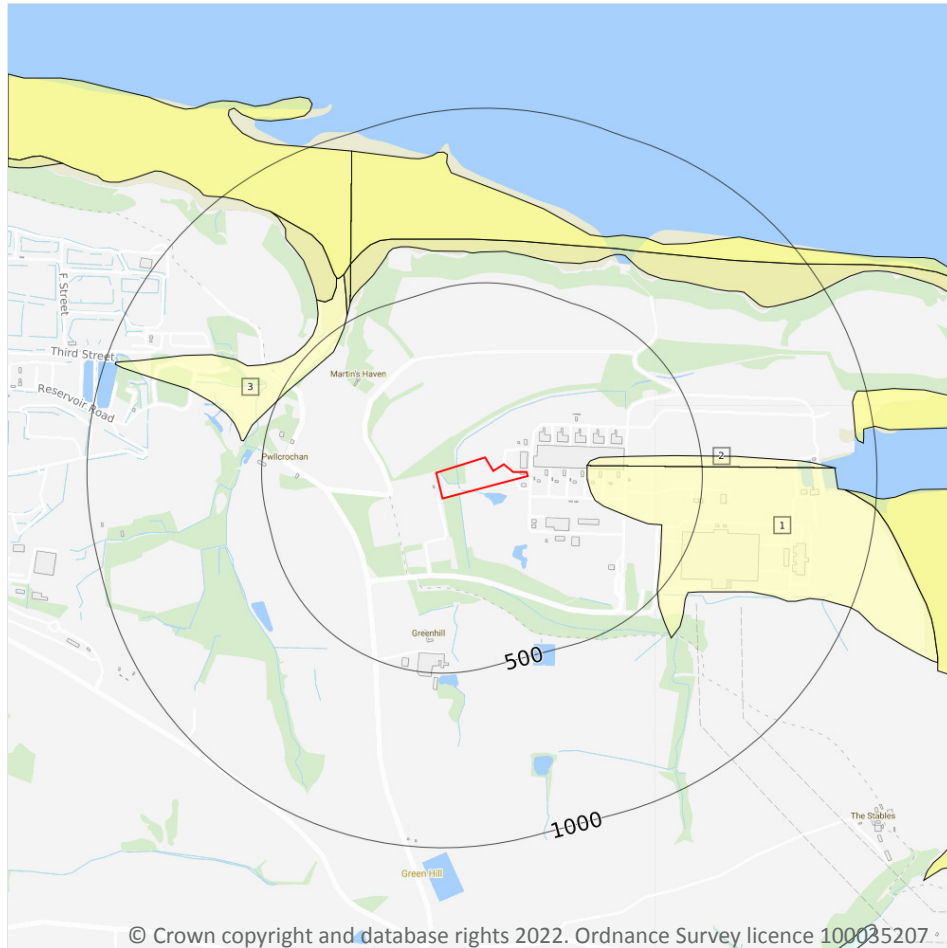
0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial 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 - 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

3

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 71**

ID	Location	LEX Code	Description	Rock description
1	170m E	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
2	173m E	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
3	454m NW	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL

This data is sourced from the British Geological Survey.



15.5 Superficial 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 superficial deposits (the zone between the land surface and the water table).

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

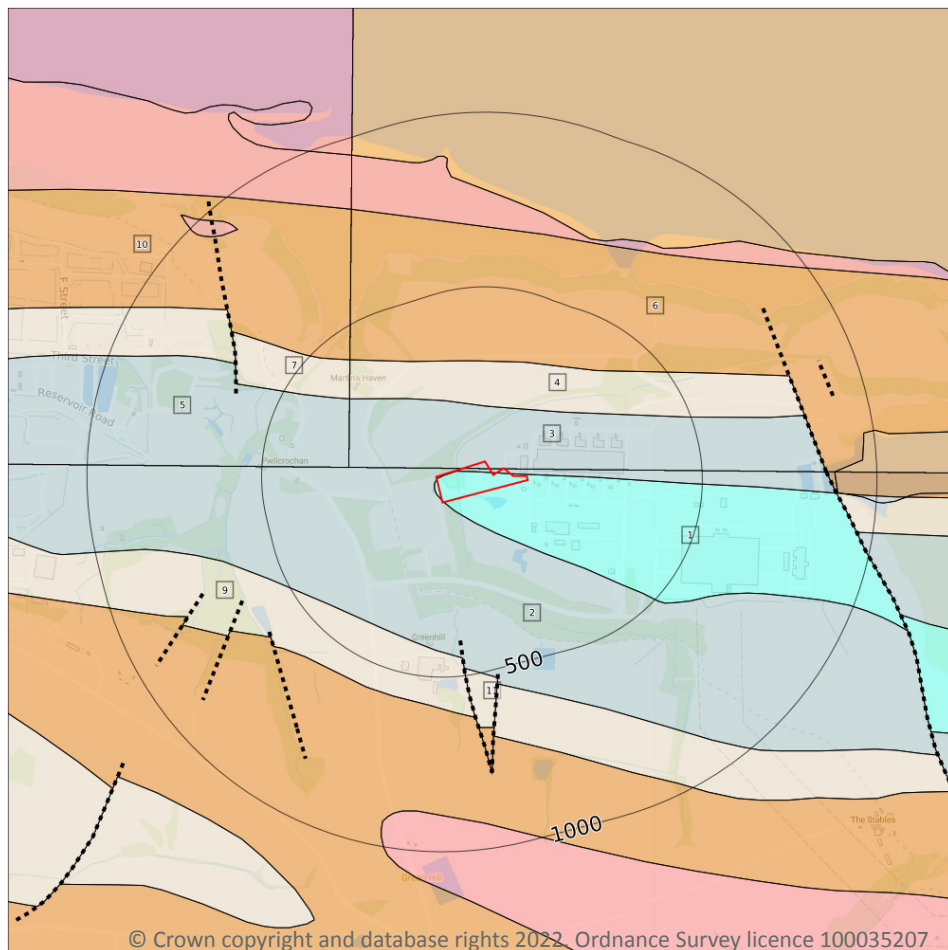
0

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

10

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 73**

ID	Location	LEX Code	Description	Rock age
1	On site	BGUO-LMST	BLACK ROCK SUBGROUP AND GULLY OOLITE FORMATION (UNDIFFERENTIATED) - LIMESTONE	TOURNAISIAN
2	On site	AVO-LSMD	AVON GROUP - LIMESTONE AND MUDSTONE, INTERBEDDED	TOURNAISIAN



ID	Location	LEX Code	Description	Rock age
3	On site	AVO-LSMD	AVON GROUP - LIMESTONE AND MUDSTONE, INTERBEDDED	TOURNAISIAN
4	158m N	SES-SDST	SKRINKLE SANDSTONE FORMATION - SANDSTONE	FAMENNIAN
5	252m W	AVO-LSMD	AVON GROUP - LIMESTONE AND MUDSTONE, INTERBEDDED	TOURNAISIAN
6	287m N	RDWC-CONG	RIDGEWAY CONGLOMERATE FORMATION - CONGLOMERATE	PRAGIAN
7	334m NW	SES-SDST	SKRINKLE SANDSTONE FORMATION - SANDSTONE	FAMENNIAN
9	399m SW	SES-SDST	SKRINKLE SANDSTONE FORMATION - SANDSTONE	FAMENNIAN
10	416m NW	RDWC-CONG	RIDGEWAY CONGLOMERATE FORMATION - CONGLOMERATE	PRAGIAN
11	478m S	SES-SDST	SKRINKLE SANDSTONE FORMATION - SANDSTONE	FAMENNIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	2
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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	Very High	Low
On site	Fracture	Very High	High

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	1
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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 73**

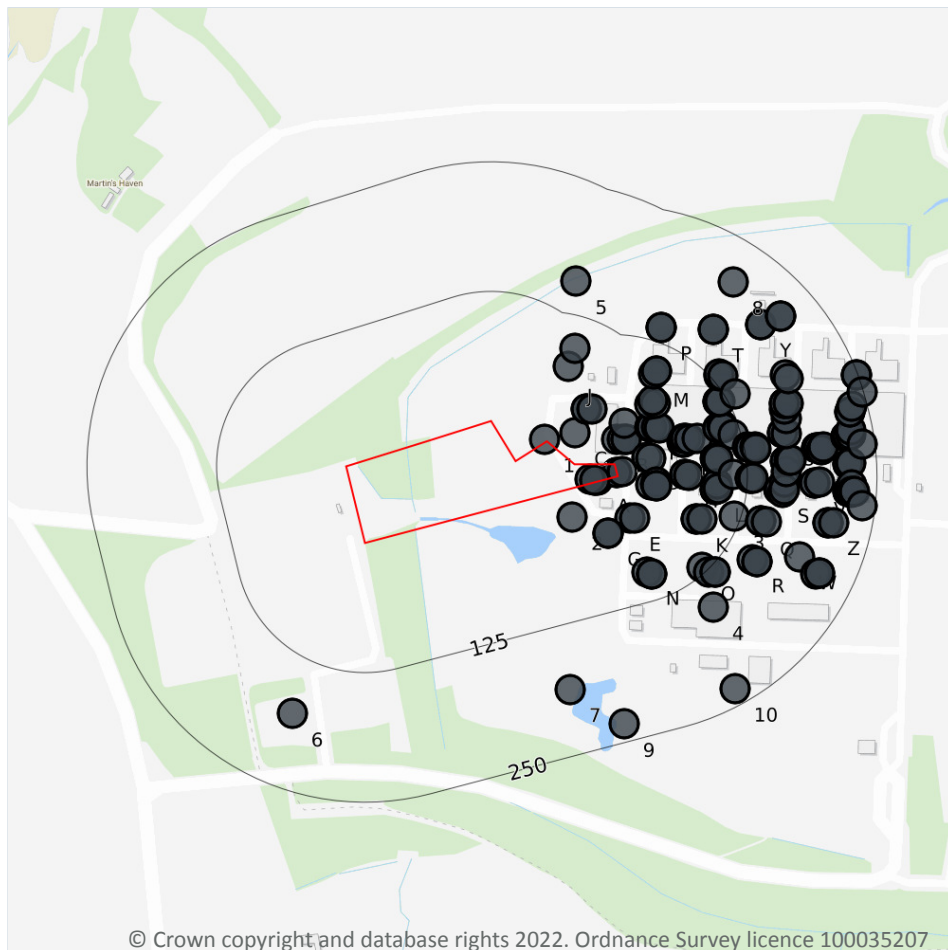


ID	Location	Category	Description
8	399m S	FAULT	Fault, observed, displacement unknown

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

168

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 76**

ID	Location	Grid reference	Name	Length	Confidential	Web link
A	On site	192795 202615	Pembroke CCGT Power Station: Ground Investigation RS8A	-	Y	N/A
A	On site	192792 202615	Pembroke CCGT Power Station: Ground Investigation RS8	-	Y	N/A



ID	Location	Grid reference	Name	Length	Confidential	Web link
A	On site	192813 202622	Pembroke CCGT Power Station: Ground Investigation B2	-	Y	N/A
A	On site	192813 202622	Pembroke CCGT Power Station: Ground Investigation TPRB2	-	Y	N/A
A	On site	192787 202616	Pembroke CCGT Power Station: Ground Investigation S8	-	Y	N/A
A	On site	192792 202615	Pembroke CCGT Power Station: Ground Investigation TPRS8	-	Y	N/A
1	3m NW	192743 202654	Pembroke CCGT Power Station: Ground Investigation TP1	-	Y	N/A
A	5m E	192818 202623	Pembroke CCGT Power Station: Ground Investigation RB2	-	Y	N/A
B	24m N	192813 202654	Pembroke CCGT Power Station: Ground Investigation B1	-	Y	N/A
C	24m NE	192773 202661	PEMBROKE POWER STATION 201	-	Y	N/A
B	25m N	192818 202654	Pembroke CCGT Power Station: Ground Investigation RB1	-	Y	N/A
B	26m NE	192822 202654	Pembroke CCGT Power Station: Ground Investigation TPRB1	-	Y	N/A
B	26m NE	192822 202654	Pembroke CCGT Power Station: Ground Investigation TPRB1A	-	Y	N/A
2	27m S	192770 202579	PEMBROKE POWER STATION 202	-	Y	N/A
D	32m E	192842 202637	Pembroke CCGT Power Station: Ground Investigation TPRB6	-	Y	N/A
D	33m E	192846 202610	Pembroke CCGT Power Station: Ground Investigation TPRB7	-	Y	N/A
D	35m E	192846 202636	Pembroke CCGT Power Station: Ground Investigation B6	-	Y	N/A
D	37m E	192850 202611	Pembroke CCGT Power Station: Ground Investigation RB7	-	Y	N/A
D	37m E	192851 202613	Pembroke CCGT Power Station: Ground Investigation RB7A	-	Y	N/A
D	38m E	192851 202609	Pembroke CCGT Power Station: Ground Investigation B7	-	Y	N/A
D	38m E	192851 202609	Pembroke CCGT Power Station: Ground Investigation RB7R	-	Y	N/A



ID	Location	Grid reference	Name	Length	Confidential	Web link
B	41m N	192820 202670	MILFORD HAVEN POWER STATION 3	-	Y	N/A
E	42m S	192826 202578	Pembroke CCGT Power Station: Ground Investigation B8	-	Y	N/A
E	44m S	192830 202578	Pembroke CCGT Power Station: Ground Investigation RB8	-	Y	N/A
C	48m NE	192784 202683	Pembroke CCGT Power Station: Ground Investigation RS6	-	Y	N/A
C	48m NE	192784 202683	Pembroke CCGT Power Station: Ground Investigation TPRS6	-	Y	N/A
F	49m NE	192845 202666	Pembroke CCGT Power Station: Ground Investigation B5	-	Y	N/A
G	51m S	192805 202564	Pembroke CCGT Power Station: Ground Investigation TPRB8	-	Y	N/A
G	51m S	192805 202564	Pembroke CCGT Power Station: Ground Investigation TP8	-	Y	N/A
F	51m NE	192847 202666	Pembroke CCGT Power Station: Ground Investigation TPRB5	-	Y	N/A
C	51m NE	192789 202683	Pembroke CCGT Power Station: Ground Investigation S6	-	Y	N/A
F	54m NE	192851 202666	Pembroke CCGT Power Station: Ground Investigation RB5	-	Y	N/A
F	55m NE	192854 202665	Pembroke CCGT Power Station: Ground Investigation RB5A	-	Y	N/A
H	65m E	192879 202620	Pembroke CCGT Power Station: Ground Investigation TPRB10	-	Y	N/A
H	65m E	192879 202620	Pembroke CCGT Power Station: Ground Investigation B10	-	Y	N/A
F	67m NE	192845 202688	Pembroke CCGT Power Station: Ground Investigation TPRB4	-	Y	N/A
H	68m E	192882 202619	Pembroke CCGT Power Station: Ground Investigation RB10	-	Y	N/A
I	68m E	192876 202651	Pembroke CCGT Power Station: Ground Investigation TPRB9	-	Y	N/A
I	70m E	192878 202651	Pembroke CCGT Power Station: Ground Investigation TPRB9A	-	Y	N/A
F	71m NE	192850 202689	Pembroke CCGT Power Station: Ground Investigation B4	-	Y	N/A



ID	Location	Grid reference	Name	Length	Confidential	Web link
I	71m E	192878 202655	Pembroke CCGT Power Station: Ground Investigation B9	-	Y	N/A
F	72m NE	192848 202692	Pembroke CCGT Power Station: Ground Investigation RB4	-	Y	N/A
I	73m E	192880 202655	Pembroke CCGT Power Station: Ground Investigation B9A	-	Y	N/A
J	76m N	192766 202725	Pembroke CCGT Power Station: Ground Investigation TP2	-	Y	N/A
I	76m E	192883 202654	Pembroke CCGT Power Station: Ground Investigation RB9	-	Y	N/A
I	84m E	192891 202655	Pembroke CCGT Power Station: Ground Investigation B9B	-	Y	N/A
K	87m SE	192890 202577	Pembroke CCGT Power Station: Ground Investigation B16	-	Y	N/A
K	87m SE	192890 202577	Pembroke CCGT Power Station: Ground Investigation TPRB16	-	Y	N/A
K	91m SE	192895 202577	Pembroke CCGT Power Station: Ground Investigation RB16	-	Y	N/A
J	94m N	192773 202742	PEMBROKE POWER STATION 200	-	Y	N/A
L	95m E	192908 202606	Pembroke CCGT Power Station: Ground Investigation B15	-	Y	N/A
L	95m E	192908 202606	Pembroke CCGT Power Station: Ground Investigation TPRB15	-	Y	N/A
M	95m NE	192849 202717	Pembroke CCGT Power Station: Ground Investigation TPRB3	-	Y	N/A
L	96m E	192908 202636	Pembroke CCGT Power Station: Ground Investigation RB14	-	Y	N/A
L	96m E	192909 202634	Pembroke CCGT Power Station: Ground Investigation TPRB14	-	Y	N/A
L	96m E	192910 202611	Pembroke CCGT Power Station: Ground Investigation RB15	-	Y	N/A
N	97m S	192842 202526	Pembroke CCGT Power Station: Ground Investigation W1	-	Y	N/A
L	98m E	192911 202607	Pembroke CCGT Power Station: Ground Investigation RB15A	-	Y	N/A
L	98m E	192911 202635	Pembroke CCGT Power Station: Ground Investigation B14	-	Y	N/A



ID	Location	Grid reference	Name	Length	Confidential	Web link
M	98m NE	192851 202720	Pembroke CCGT Power Station: Ground Investigation RB3	-	Y	N/A
M	98m NE	192851 202720	Pembroke CCGT Power Station: Ground Investigation B3	-	Y	N/A
N	100m S	192847 202524	Pembroke CCGT Power Station: Ground Investigation RW1	-	Y	N/A
N	100m S	192847 202524	Pembroke CCGT Power Station: Ground Investigation TPRW1	-	Y	N/A
I	106m E	192911 202665	Pembroke CCGT Power Station: Ground Investigation TPRB13	-	Y	N/A
I	106m E	192911 202665	Pembroke CCGT Power Station: Ground Investigation RB13	-	Y	N/A
I	110m E	192914 202668	Pembroke CCGT Power Station: Ground Investigation B13	-	Y	N/A
I	110m E	192915 202665	Pembroke CCGT Power Station: Ground Investigation RB13A	-	Y	N/A
L	111m E	192925 202620	PEMBROKE POWER STATION 204	-	Y	N/A
I	117m NE	192911 202691	Pembroke CCGT Power Station: Ground Investigation TPRB12	-	Y	N/A
I	117m NE	192911 202691	Pembroke CCGT Power Station: Ground Investigation B12	-	Y	N/A
I	118m E	192925 202659	PEMBROKE POWER STATION 205	-	Y	N/A
3	118m E	192926 202580	PEMBROKE POWER STATION 203	-	Y	N/A
I	119m NE	192913 202691	Pembroke CCGT Power Station: Ground Investigation RB12	-	Y	N/A
O	119m SE	192895 202531	Pembroke CCGT Power Station: Ground Investigation W2	-	Y	N/A
O	128m SE	192902 202526	Pembroke CCGT Power Station: Ground Investigation W2A	-	Y	N/A
L	128m E	192942 202617	Pembroke CCGT Power Station: Ground Investigation B18	-	Y	N/A
L	128m E	192942 202617	Pembroke CCGT Power Station: Ground Investigation TPRB18	-	Y	N/A
I	128m E	192939 202647	Pembroke CCGT Power Station: Ground Investigation RB17R	-	Y	N/A



ID	Location	Grid reference	Name	Length	Confidential	Web link
I	131m E	192942 202646	Pembroke CCGT Power Station: Ground Investigation B17	-	Y	N/A
I	131m E	192942 202646	Pembroke CCGT Power Station: Ground Investigation TPRB17	-	Y	N/A
L	131m E	192945 202617	Pembroke CCGT Power Station: Ground Investigation RB18	-	Y	N/A
I	132m NE	192912 202715	Pembroke CCGT Power Station: Ground Investigation TPRB11	-	Y	N/A
O	132m SE	192908 202526	Pembroke CCGT Power Station: Ground Investigation RW2A	-	Y	N/A
O	132m SE	192908 202526	Pembroke CCGT Power Station: Ground Investigation TPRW2	-	Y	N/A
I	133m NE	192912 202717	Pembroke CCGT Power Station: Ground Investigation B11	-	Y	N/A
I	134m NE	192915 202715	Pembroke CCGT Power Station: Ground Investigation RB11	-	Y	N/A
I	134m NE	192927 202698	PEMBROKE POWER STATION 206	-	Y	N/A
I	135m E	192946 202647	Pembroke CCGT Power Station: Ground Investigation RB17	-	Y	N/A
I	136m E	192947 202645	Pembroke CCGT Power Station: Ground Investigation RB17A	-	Y	N/A
P	139m N	192856 202762	Pembroke CCGT Power Station: Ground Investigation RS1	-	Y	N/A
P	139m N	192856 202762	Pembroke CCGT Power Station: Ground Investigation TPRS1	-	Y	N/A
Q	144m E	192952 202576	Pembroke CCGT Power Station: Ground Investigation B24	-	Y	N/A
Q	144m E	192952 202576	Pembroke CCGT Power Station: Ground Investigation TPRB24	-	Y	N/A
Q	149m E	192957 202575	Pembroke CCGT Power Station: Ground Investigation RB24	-	Y	N/A
R	153m SE	192944 202538	Pembroke CCGT Power Station: Ground Investigation S9	-	Y	N/A
S	156m E	192969 202606	Pembroke CCGT Power Station: Ground Investigation TPRB23	-	Y	N/A
S	156m E	192970 202607	Pembroke CCGT Power Station: Ground Investigation B23	-	Y	N/A



ID	Location	Grid reference	Name	Length	Confidential	Web link
4	157m SE	192906 202492	PEMBROKE POWER STATION 285	-	Y	N/A
5	157m N	192774 202807	PEMBROKE POWER STATION 265	-	Y	N/A
R	157m SE	192948 202536	Pembroke CCGT Power Station: Ground Investigation RS9	-	Y	N/A
R	157m SE	192948 202536	Pembroke CCGT Power Station: Ground Investigation TPRS9	-	Y	N/A
S	160m E	192973 202603	Pembroke CCGT Power Station: Ground Investigation RB23A	-	Y	N/A
T	161m NE	192906 202760	Pembroke CCGT Power Station: Ground Investigation RS2	-	Y	N/A
T	161m NE	192906 202760	Pembroke CCGT Power Station: Ground Investigation TPRS2	-	Y	N/A
S	161m E	192975 202613	Pembroke CCGT Power Station: Ground Investigation SZ3	-	Y	N/A
S	161m E	192975 202606	Pembroke CCGT Power Station: Ground Investigation RB23	-	Y	N/A
S	163m E	192976 202633	Pembroke CCGT Power Station: Ground Investigation B22	-	Y	N/A
S	163m E	192976 202633	Pembroke CCGT Power Station: Ground Investigation TPRB22	-	Y	N/A
S	163m E	192977 202623	Pembroke CCGT Power Station: Ground Investigation SZ2	-	Y	N/A
U	165m E	192973 202661	Pembroke CCGT Power Station: Ground Investigation B21	-	Y	N/A
U	165m E	192973 202661	Pembroke CCGT Power Station: Ground Investigation TPRB21	-	Y	N/A
S	166m E	192979 202634	Pembroke CCGT Power Station: Ground Investigation RB22	-	Y	N/A
S	168m E	192981 202634	Pembroke CCGT Power Station: Ground Investigation RB22R	-	Y	N/A
U	168m E	192977 202660	Pembroke CCGT Power Station: Ground Investigation RB21A	-	Y	N/A
U	172m E	192977 202674	Pembroke CCGT Power Station: Ground Investigation RB41	-	Y	N/A
U	172m E	192975 202683	Pembroke CCGT Power Station: Ground Investigation RB20A	-	Y	N/A



ID	Location	Grid reference	Name	Length	Confidential	Web link
U	174m E	192975 202689	Pembroke CCGT Power Station: Ground Investigation B20	-	Y	N/A
U	174m E	192975 202689	Pembroke CCGT Power Station: Ground Investigation TPRB20	-	Y	N/A
U	177m E	192978 202689	Pembroke CCGT Power Station: Ground Investigation RB20	-	Y	N/A
6	179m SW	192500 202390	ANGLE BAY. 4A	-	Y	N/A
U	186m NE	192976 202716	Pembroke CCGT Power Station: Ground Investigation TPRB19	-	Y	N/A
U	186m NE	192978 202713	Pembroke CCGT Power Station: Ground Investigation RB19	-	Y	N/A
7	187m S	192768 202413	PEMBROKE POWER STATION 266	-	Y	N/A
V	190m E	193004 202612	Pembroke CCGT Power Station: Ground Investigation B26	-	Y	N/A
V	190m E	193004 202612	Pembroke CCGT Power Station: Ground Investigation TPRB26	-	Y	N/A
W	191m SE	192989 202541	Pembroke CCGT Power Station: Ground Investigation TP7	-	Y	N/A
X	194m E	193006 202646	Pembroke CCGT Power Station: Ground Investigation B25	-	Y	N/A
X	194m E	193006 202646	Pembroke CCGT Power Station: Ground Investigation TPRB 25	-	Y	N/A
V	195m E	193009 202613	Pembroke CCGT Power Station: Ground Investigation RB26	-	Y	N/A
Y	195m NE	192952 202765	Pembroke CCGT Power Station: Ground Investigation RS3	-	Y	N/A
Y	195m NE	192952 202765	Pembroke CCGT Power Station: Ground Investigation TPRS3	-	Y	N/A
X	196m E	193008 202646	Pembroke CCGT Power Station: Ground Investigation TPRB25A	-	Y	N/A
X	198m E	193010 202644	Pembroke CCGT Power Station: Ground Investigation RB25A	-	Y	N/A
X	200m E	193012 202647	Pembroke CCGT Power Station: Ground Investigation RB25	-	Y	N/A
Z	208m E	193017 202574	Pembroke CCGT Power Station: Ground Investigation B32	-	Y	N/A



ID	Location	Grid reference	Name	Length	Confidential	Web link
Z	208m E	193017 202574	Pembroke CCGT Power Station: Ground Investigation TPRB32	-	Y	N/A
8	210m NE	192925 202806	PEMBROKE POWER STATION 282	-	Y	N/A
Z	213m E	193022 202574	Pembroke CCGT Power Station: Ground Investigation RB32	-	Y	N/A
W	213m SE	193005 202524	Pembroke CCGT Power Station: Ground Investigation W3	-	Y	N/A
Y	215m NE	192971 202773	Pembroke CCGT Power Station: Ground Investigation TPRS4	-	Y	N/A
Y	215m NE	192971 202773	Pembroke CCGT Power Station: Ground Investigation RS4	-	Y	N/A
W	216m SE	193009 202525	Pembroke CCGT Power Station: Ground Investigation RW3	-	Y	N/A
W	216m SE	193009 202525	Pembroke CCGT Power Station: Ground Investigation TPRW3	-	Y	N/A
X	222m E	193036 202630	Pembroke CCGT Power Station: Ground Investigation B30	-	Y	N/A
X	222m E	193036 202630	Pembroke CCGT Power Station: Ground Investigation TPRB30	-	Y	N/A
X	222m E	193036 202604	Pembroke CCGT Power Station: Ground Investigation B31	-	Y	N/A
X	222m E	193036 202604	Pembroke CCGT Power Station: Ground Investigation TPRB31	-	Y	N/A
X	223m E	193034 202657	Pembroke CCGT Power Station: Ground Investigation B29	-	Y	N/A
X	223m E	193034 202657	Pembroke CCGT Power Station: Ground Investigation TPRB29	-	Y	N/A
X	224m E	193038 202604	Pembroke CCGT Power Station: Ground Investigation TPRB31A	-	Y	N/A
X	225m E	193039 202631	Pembroke CCGT Power Station: Ground Investigation RB30	-	Y	N/A
X	225m E	193036 202658	Pembroke CCGT Power Station: Ground Investigation RB29	-	Y	N/A
X	226m E	193039 202603	Pembroke CCGT Power Station: Ground Investigation RB31A	-	Y	N/A
X	226m E	193040 202610	Pembroke CCGT Power Station: Ground Investigation RB31	-	Y	N/A

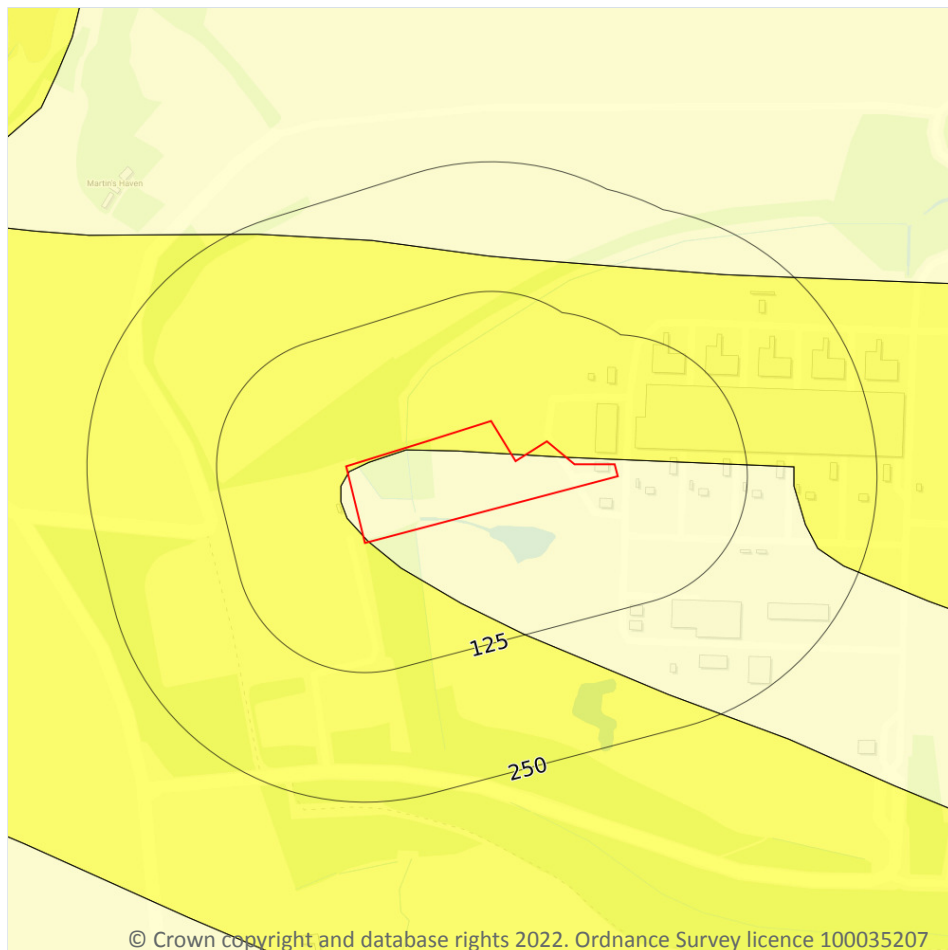


ID	Location	Grid reference	Name	Length	Confidential	Web link
X	226m E	193040 202604	Pembroke CCGT Power Station: Ground Investigation TPRB31B	-	Y	N/A
X	228m E	193042 202604	Pembroke CCGT Power Station: Ground Investigation TPRB31C	-	Y	N/A
X	229m E	193039 202659	Pembroke CCGT Power Station: Ground Investigation RB29X	-	Y	N/A
X	229m E	193039 202663	Pembroke CCGT Power Station: Ground Investigation RB29A	-	Y	N/A
9	232m S	192820 202380	MILFORD HAVEN POWER STATION 1	-	Y	N/A
X	233m E	193038 202681	Pembroke CCGT Power Station: Ground Investigation B28	-	Y	N/A
X	233m E	193038 202681	Pembroke CCGT Power Station: Ground Investigation TPRB28	-	Y	N/A
10	234m SE	192927 202414	PEMBROKE POWER STATION 283	-	Y	N/A
X	236m E	193040 202686	Pembroke CCGT Power Station: Ground Investigation RB28	-	Y	N/A
X	238m E	193050 202590	MILFORD HAVEN POWER STATION 45	-	Y	N/A
X	238m E	193050 202650	MILFORD HAVEN POWER STATION 46	-	Y	N/A
X	248m E	193044 202716	Pembroke CCGT Power Station: Ground Investigation RB27	-	Y	N/A
X	248m E	193044 202716	Pembroke CCGT Power Station: Ground Investigation TPRB27	-	Y	N/A
X	249m E	193050 202700	MILFORD HAVEN POWER STATION 43	-	Y	N/A

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

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).

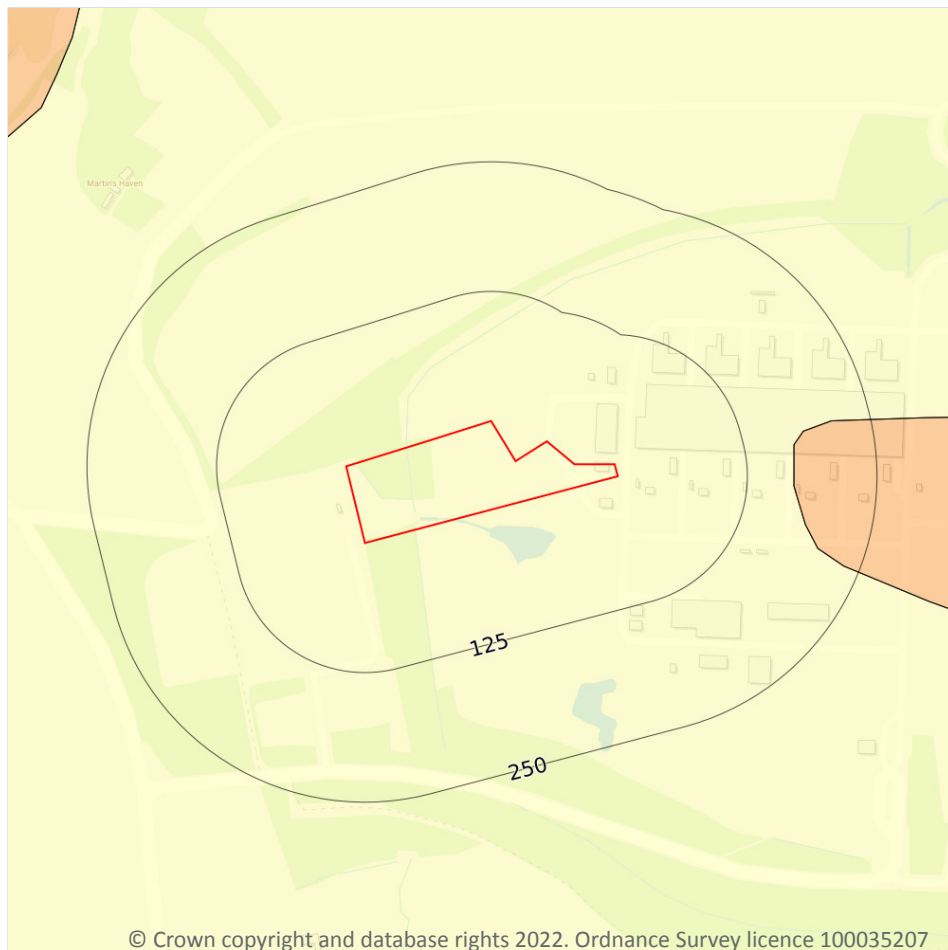
Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 86**

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



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

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17.2 Running sands

Records within 50m

1

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.

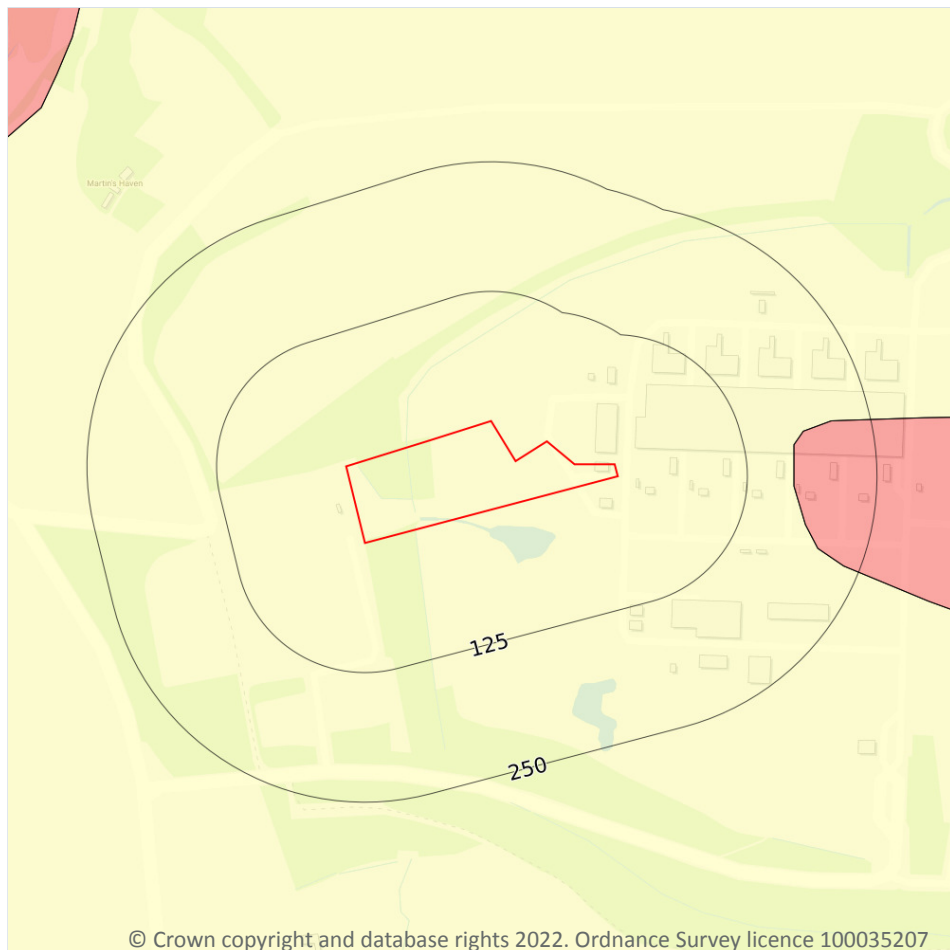
Features are displayed on the Natural ground subsidence - Running sands map on **page 87**

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.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



— Site Outline
Search buffers in metres (m)

- ☐ No data
- ☐ Negligible
- ☐ Very low
- ☐ Low
- ☐ Moderate
- ☐ High

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17.3 Compressible deposits

Records within 50m

1

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.

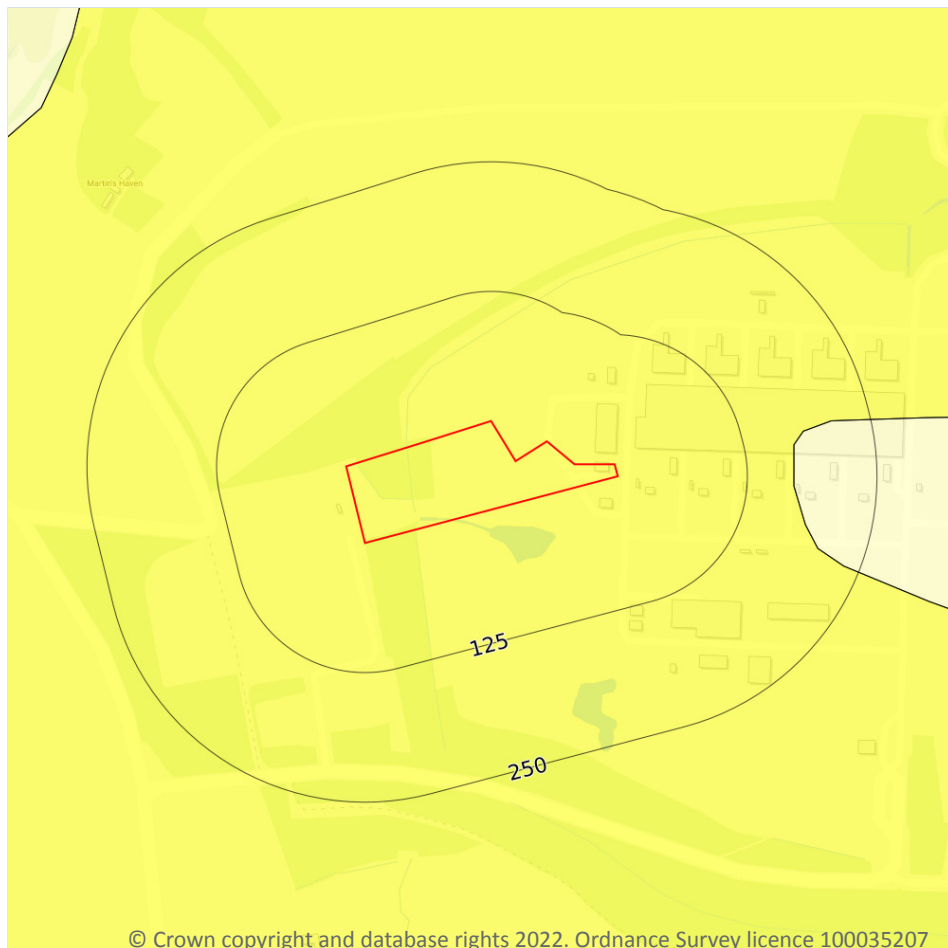
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 88**

Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



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

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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.

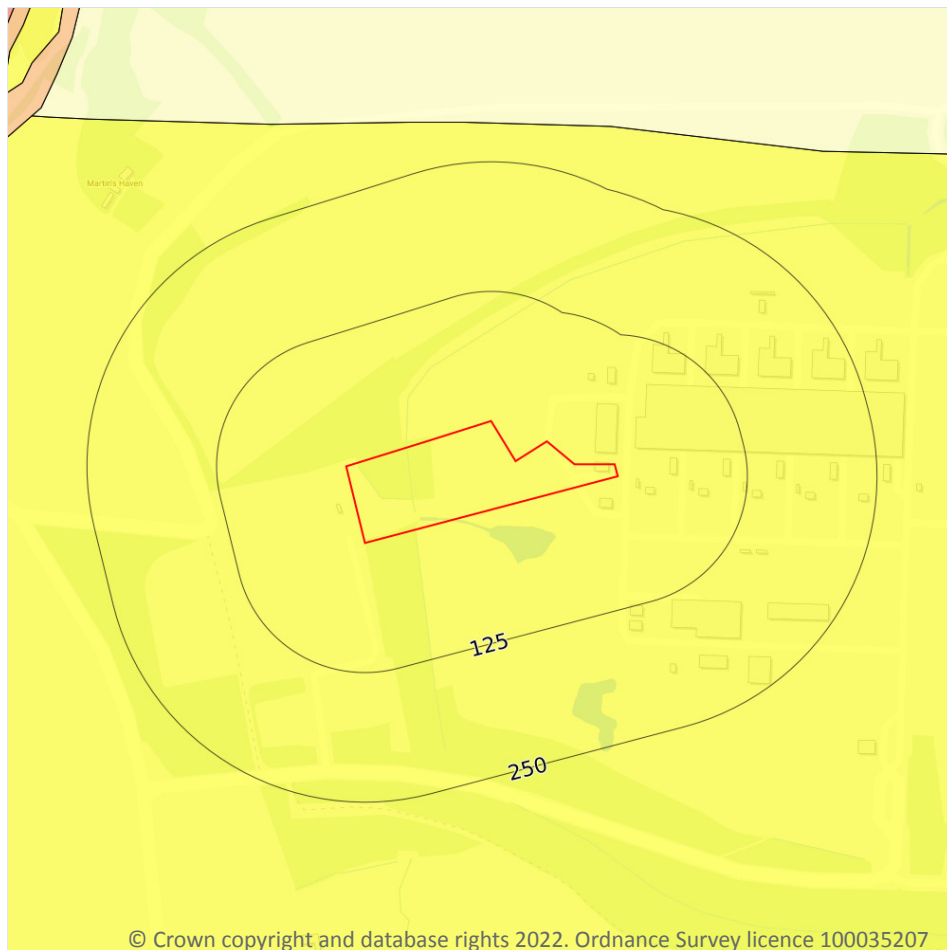
Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 89**

Location	Hazard rating	Details
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Landslides



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

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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.

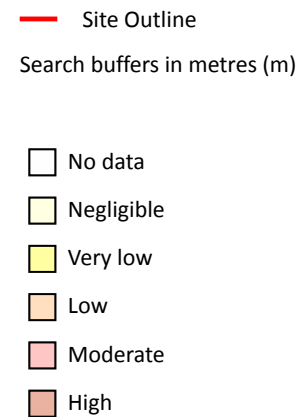
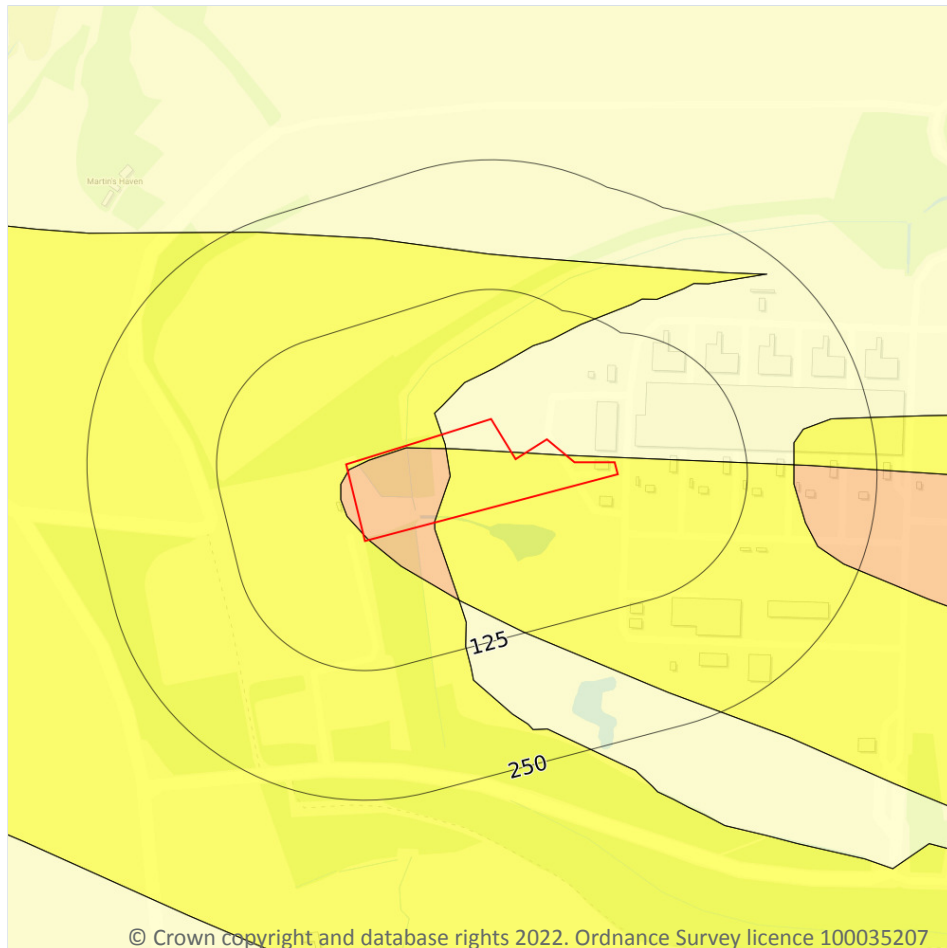
Features are displayed on the Natural ground subsidence - Landslides map on **page 90**

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

3

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 91**

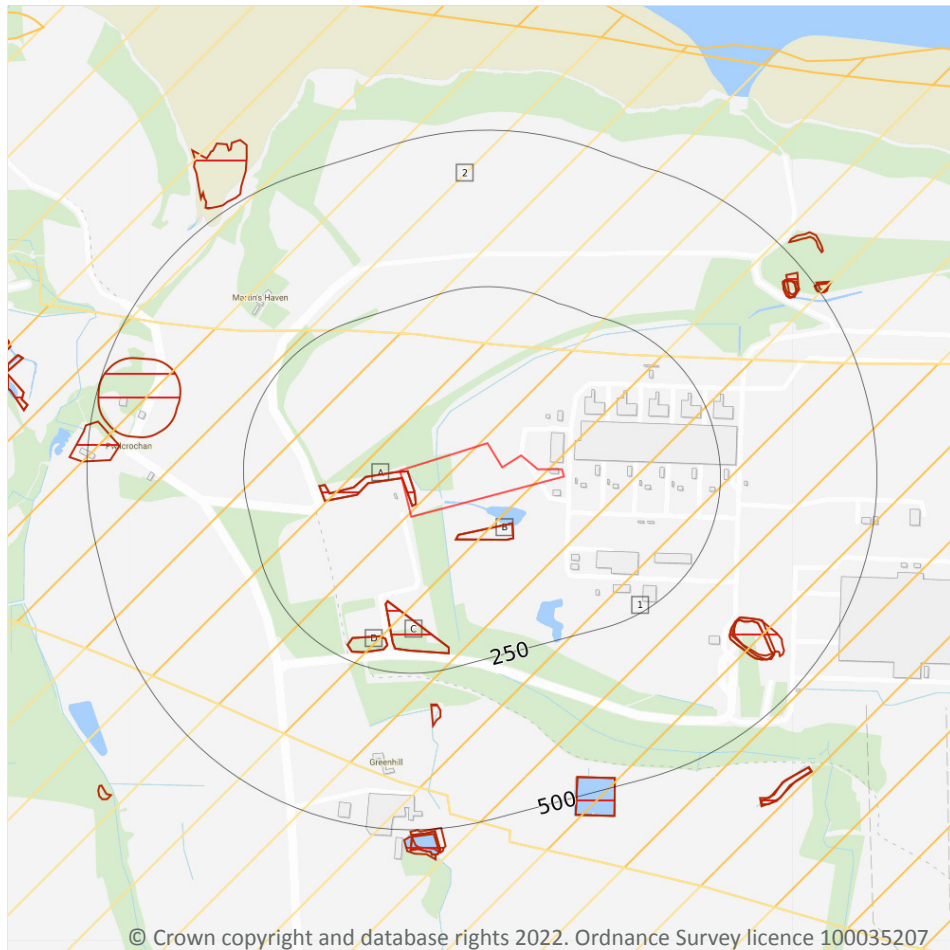
Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.

Location	Hazard rating	Details
On site	Very low	Soluble rocks are present within the ground. Few dissolution features are likely to be present. Potential for difficult ground conditions or localised subsidence are at a level where they need not be considered.
On site	Low	Soluble rocks are present within the ground. Some dissolution features may be present. Potential for difficult ground conditions are at a level where they may be considered, localised subsidence need not be considered except in exceptional circumstances.

This data is sourced from the British Geological Survey.



18 Mining, ground workings and natural cavities



- Site Outline
- Search buffers in metres (m)
- Natural cavities (Area)
- Natural cavities (Point)
- BritPits
- Surface ground workings
- Underground workings
- Historical Mineral Planning Areas
- Mining Cavities
- Non Coal Mining
 - Sporadic underground mining of restricted extent possible
 - Localised small scale underground mining possible
 - Small scale mining possible
 - Underground mining known or likely within or in close proximity
 - Underground mining known within or in very close proximity

18.1 Natural cavities

Records within 500m

0

Industry recognised national database of natural cavities. Sinkholes and caves are formed by the dissolution of soluble rock, such as chalk and limestone, gulls and fissures by cambering. Ground instability can result from movement of loose material contained within these cavities, often triggered by water.

This data is sourced from Stantec UK Ltd.

18.2 BritPits

Records within 500m

0

BritPits (an abbreviation of British Pits) is a database maintained by the British Geological Survey of currently active and closed surface and underground mineral workings. Details of major mineral handling sites, such as wharfs and rail depots are also held in the database.

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m

8

Historical land uses identified from Ordnance Survey mapping that involved ground excavation at the surface. These features may or may not have been subsequently backfilled.

Features are displayed on the Mining, ground workings and natural cavities map on **page 93**

ID	Location	Land Use	Year of mapping	Mapping scale
A	On site	Unspecified Ground Workings	1994	1:10000
A	On site	Unspecified Ground Workings	1975	1:10000
B	47m S	Unspecified Pit	1994	1:10000
B	47m S	Unspecified Pit	1975	1:10000
C	140m S	Unspecified Pit	1994	1:10000
C	140m S	Unspecified Pit	1975	1:10000
D	197m S	Unspecified Ground Workings	1994	1:10000
D	197m S	Unspecified Ground Workings	1975	1:10000

This data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m

0

Historical land uses identified from Ordnance Survey mapping that indicate the presence of underground workings e.g. mine shafts.

This data is sourced from Ordnance Survey/Groundsure.



18.5 Historical Mineral Planning Areas

Records within 500m

0

Boundaries of mineral planning permissions for England and Wales. This data was collated between the 1940s (and retrospectively to the 1930s) and the mid 1980s. The data includes permitted, withdrawn and refused permissions.

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

6

The potential for historical non-coal mining to have affected an area. The assessment is drawn from expert knowledge and literature in addition to the digital geological map of Britain. Mineral commodities may be divided into seven general categories - vein minerals, chalk, oil shale, building stone, bedded ores, evaporites and 'other' commodities (including ball clay, jet, black marble, graphite and chert).

Features are displayed on the Mining, ground workings and natural cavities map on **page 93**

ID	Location	Name	Commodity	Class	Likelihood
1	On site	Not available	Vein Mineral	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
2	158m N	Not available	Vein Mineral	A	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered
5	399m SW	Not available	Vein Mineral	A	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered
10	667m N	Not available	Vein Mineral	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
-	886m S	Not available	Vein Mineral	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
12	908m NW	Not available	Vein Mineral	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered



This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m

0

Industry recognised national database of mining cavities. Degraded mines may result in hazardous subsidence (crown holes). Climatic conditions and water escape can also trigger subsidence over mine entrances and workings.

This data is sourced from Stantec UK Ltd.

18.8 JPB mining areas

Records on site

0

Areas which could be affected by former coal and other mining. This data includes some mine plans unavailable to the Coal Authority.

This data is sourced from Johnson Poole and Bloomer.

18.9 Coal mining

Records on site

0

Areas which could be affected by past, current or future coal mining.

This data is sourced from the Coal Authority.

18.10 Brine areas

Records on site

0

The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

This data is sourced from the Cheshire Brine Subsidence Compensation Board.

18.11 Gypsum areas

Records on site

0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.



18.12 Tin mining

Records on site	0
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Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.13 Clay mining

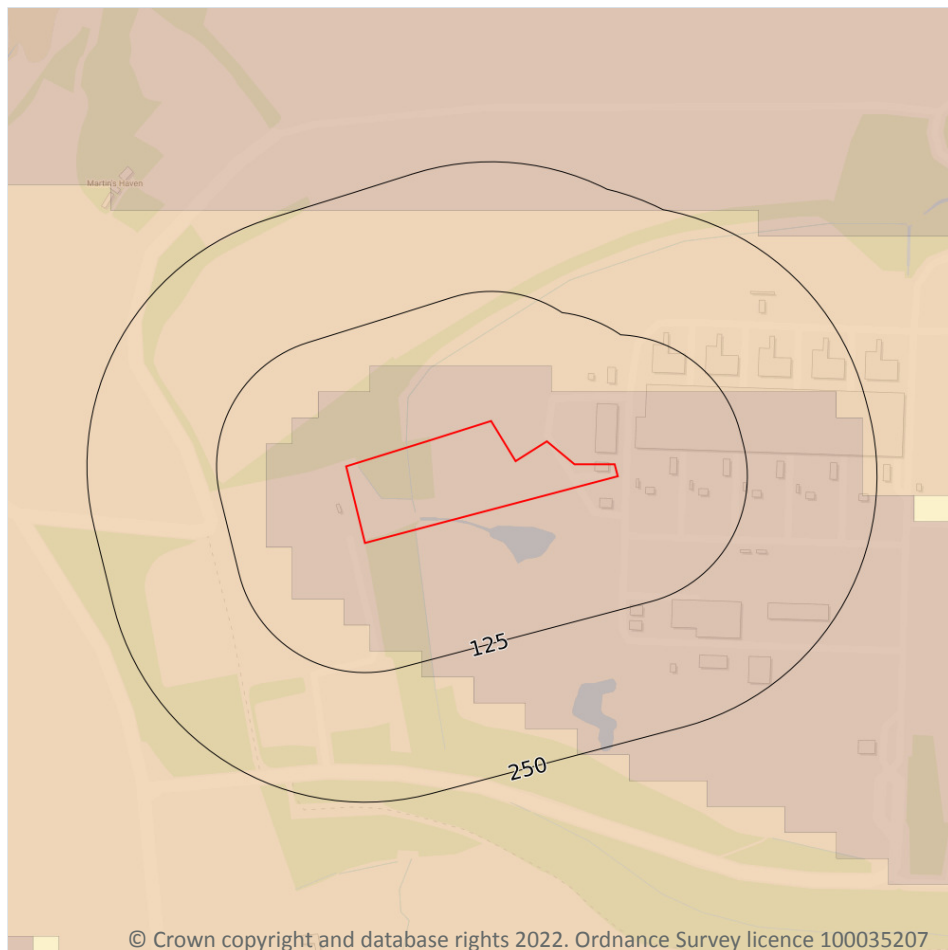
Records on site	0
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Generalised areas that may be affected by kaolin and ball clay extraction.

This data is sourced from the Kaolin and Ball Clay Association (UK).



19 Radon



- Site Outline**
- Search buffers in metres (m)**
- Greater than 30%
 - Between 10% and 30%
 - Between 5% and 10%
 - Between 3% and 5%
 - Between 1% and 3%
 - Less than 1%

19.1 Radon

Records on site

1

Estimated percentage of dwellings exceeding the Radon Action Level. This data is the highest resolution radon dataset available for the UK and is produced to a 75m level of accuracy to allow for geological data accuracy and a 'residential property' buffer. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain. The data was derived from both geological assessments and long term measurements of radon in more than 479,000 households.

Features are displayed on the Radon map on **page 98**

Location	Estimated properties affected	Radon Protection Measures required
On site	Between 10% and 30%	Full

This data is sourced from the British Geological Survey and Public Health England.



20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m

4

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km². In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km²; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	50 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
32m S	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km²).

This data is sourced from the British Geological Survey.

20.3 BGS Measured Urban Soil Chemistry

Records within 50m

0

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km².

This data is sourced from the British Geological Survey.



21 Railway infrastructure and projects

21.1 Underground railways (London)

Records within 250m**0**

Details of all active London Underground lines, including approximate tunnel roof depth and operational hours.

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m**0**

Details of the Merseyrail system, the Tyne and Wear Metro and the Glasgow Subway. Not all parts of all systems are located underground. The data contains location information only and does not include a depth assessment.

This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m**0**

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m**0**

Railways and tunnels digitised from historical Ordnance Survey mapping as scales of 1:1,250, 1:2,500, 1:10,000 and 1:10,560.

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m**0**

The Post Office Railway, otherwise known as the Mail Rail, is an underground railway running through Central London from Paddington Head District Sorting Office to Whitechapel Eastern Head Sorting Office. The line is 10.5km long. The data includes details of the full extent of the tunnels, the depth of the tunnel, and the depth to track level.



This data is sourced from Groundsure/the Postal Museum.

21.6 Historical railways

Records within 250m

0

Former railway lines, including dismantled lines, abandoned lines, disused lines, historic railways and razed lines.

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m

0

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways.

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 Crossrail 1

Records within 500m

0

The Crossrail railway project links 41 stations over 100 kilometres from Reading and Heathrow in the west, through underground sections in central London, to Shenfield and Abbey Wood in the east.

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m

0

Crossrail 2 is a proposed railway linking the national rail networks in Surrey and Hertfordshire via an underground tunnel through London.

This data is sourced from publicly available information by Groundsure.

21.10 HS2

Records within 500m

0

HS2 is a proposed high speed rail network running from London to Manchester and Leeds via Birmingham. Main civils construction on Phase 1 (London to Birmingham) of the project began in 2019, and it is currently anticipated that this phase will be fully operational by 2026. Construction on Phase 2a (Birmingham to Crewe) is anticipated to commence in 2021, with the service fully operational by 2027. Construction on Phase 2b (Crewe to Manchester and Birmingham to Leeds) is scheduled to begin in 2023 and be operational by 2033.

This data is sourced from HS2 Ltd.



Data providers

Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see <https://www.groundsure.com/sources-reference>.

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