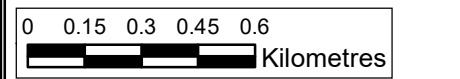


- Key:**
- Newbuild Infrastructure Boundary
 - Ince AGI to Stanlow AGI
 - Stanlow AGI to Flint AGI
 - Above Ground Installation (AGI)
 - Block Valve Station (BVS)
 - 250m Buffer
 - Main roads / Motorways
 - Railway Land
 - Industrial Land
 - Landfills
 - Sand Pit
 - Ministry of Defence (MOD) Depot
 - Temporary construction compounds
 - River/Stream/Beck or other waterway
 - Section Dividing Line
 - Ditch
 - Hedgerow
 - Ordinary Watercourse
 - Ordinary Watercourses - Others
 - Unknown



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Carbon Dioxide Pipeline DCO

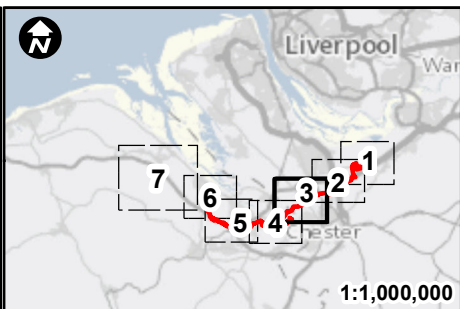
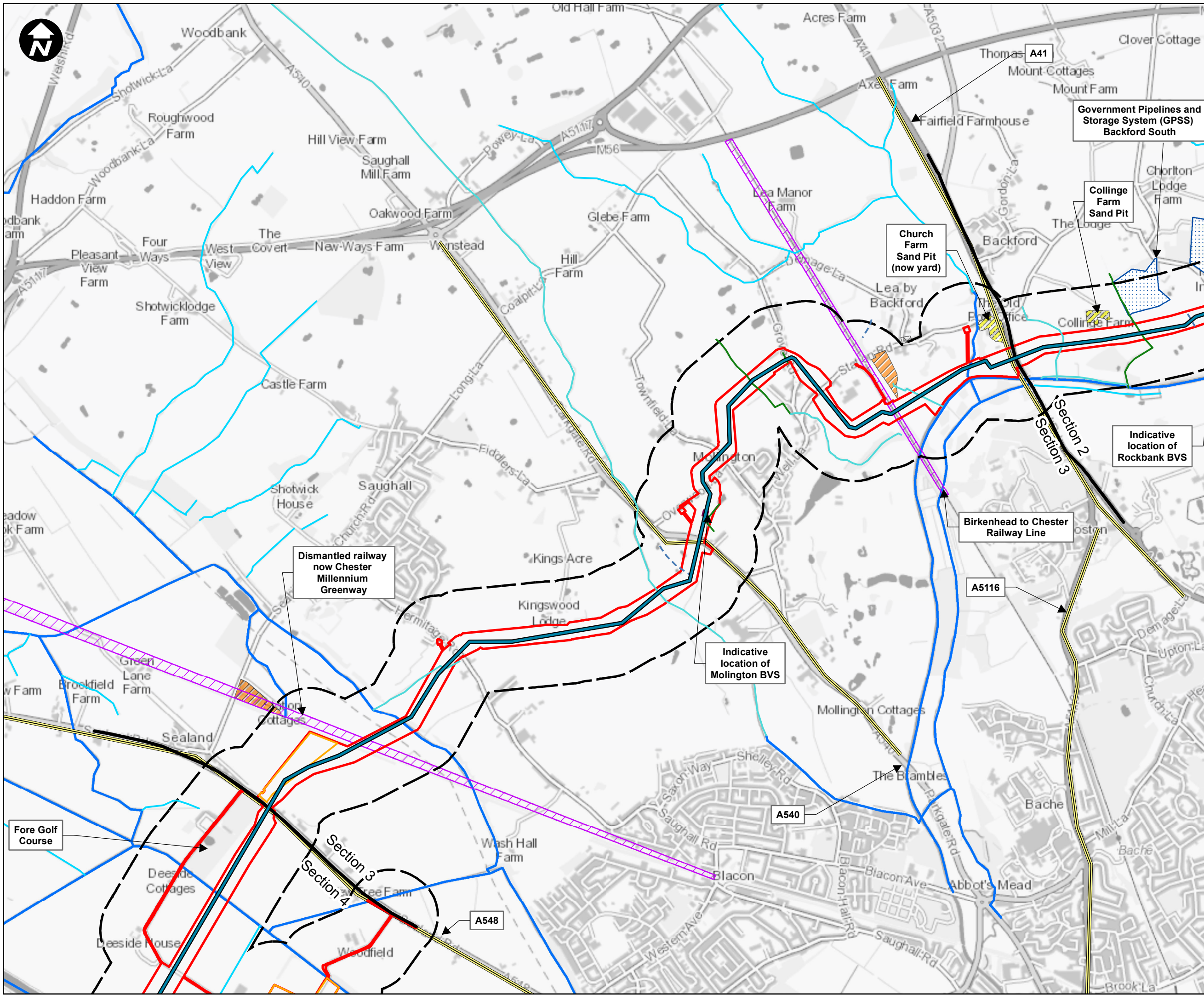
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Sources - Section 2
Sheet 2 of 7

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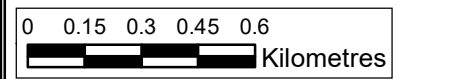
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EN070007-APP-ES-11.1.3-Sheet 2



- Key:**
- Newbuild Infrastructure Boundary
 - Stanlow AGI to Flint AGI
 - Block Valve Station (BVS)
 - 250m Buffer
 - Main roads / Motorways
 - Railway Land
 - Industrial Land
 - Landfills
 - Sand Pit
 - Ministry of Defence (MOD) Depot
 - Temporary construction compounds
 - River/Stream/Beck or other waterway
 - Section Dividing Line
 - Hedgerow
 - Ordinary Watercourse
 - Ordinary Watercourses - Others
 - Unknown



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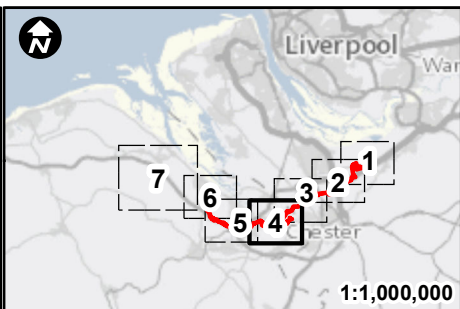
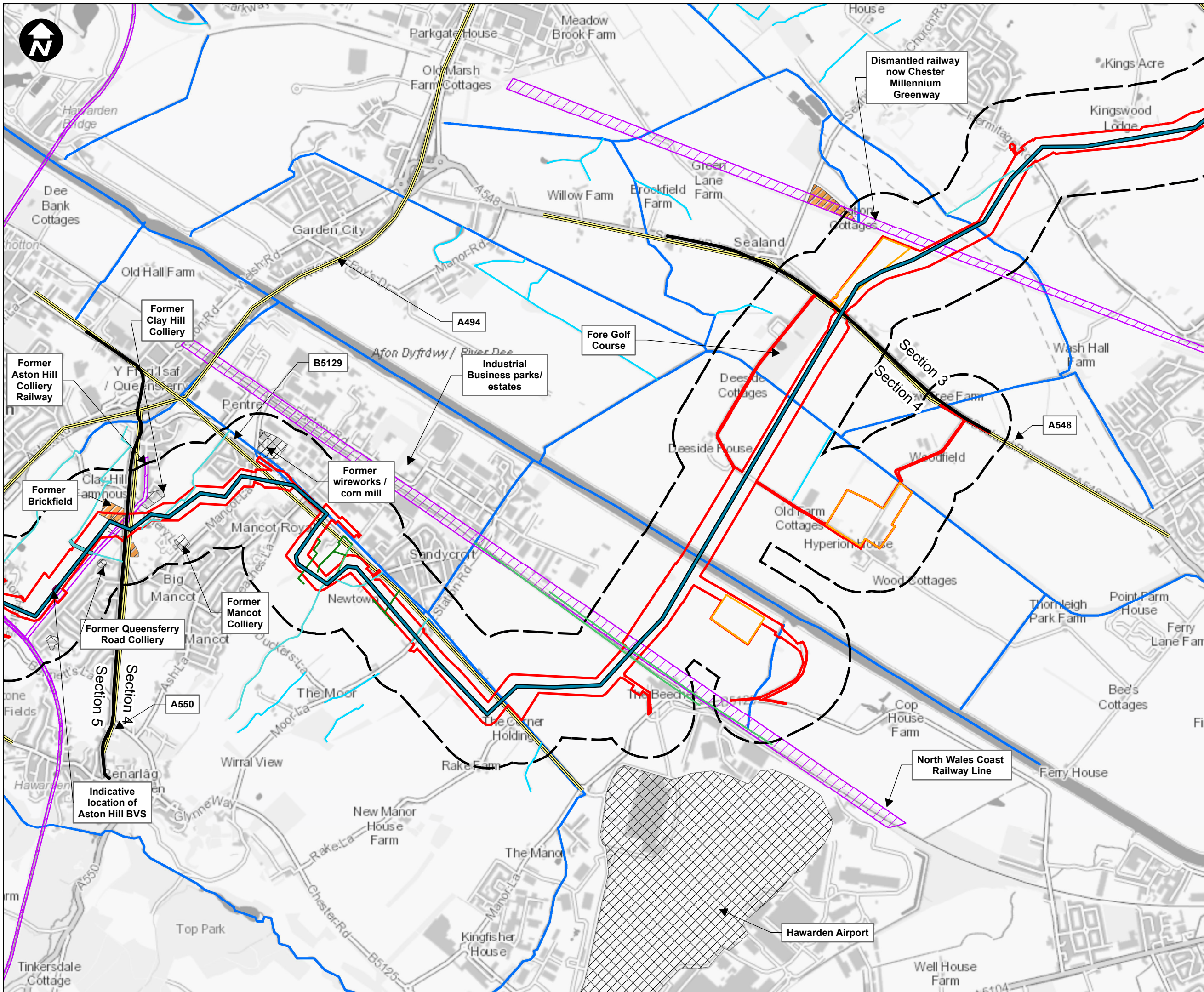
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Sheet 3 of 7

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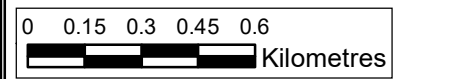
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EN070007-APP-ES-11.1.3-Sheet 3



- Key:**
- Newbuild Infrastructure Boundary
 - Stanlow AGI to Flint AGI
 - Block Valve Station (BVS)
 - 250m Buffer
 - Main roads / Motorways
 - Railway Land
 - Industrial Land
 - Landfills
 - Temporary construction compounds
 - River/Stream/Beck or other waterway
 - Section Dividing Line
 - Culvert
 - Ditch
 - Hedgerow
 - Ordinary Watercourse
 - Ordinary Watercourses - Others



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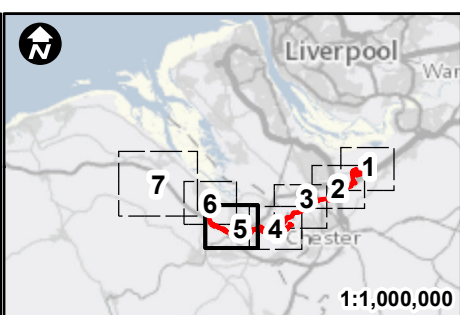
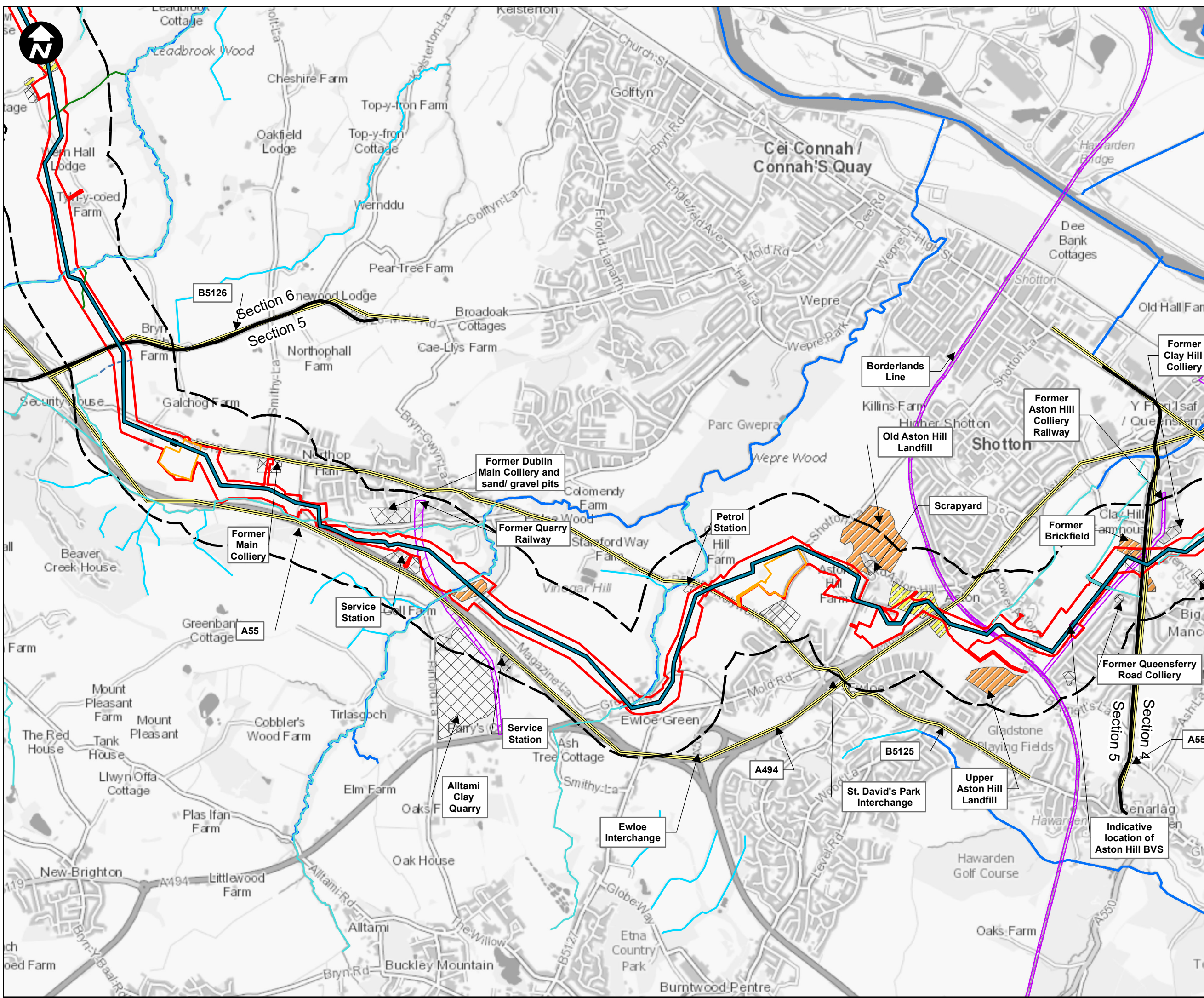
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Sources - Section 4
Sheet 4 of 7

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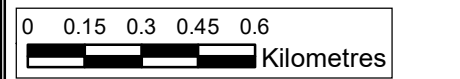
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EN070007-APP-ES-11.1.3-Sheet 4



- Key:**
- Newbuild Infrastructure Boundary
 - Stanlow AGI to Flint AGI
 - Above Ground Installation (AGI)
 - Block Valve Station (BVS)
 - 250m Buffer
 - Main roads / Motorways
 - Railway Land
 - Industrial Land
 - Landfills
 - Sand Pit
 - Temporary construction compounds
 - River/Stream/Beck or other waterway
 - Section Dividing Line
 - Culvert
 - Hedgerow
 - Ordinary Watercourse
 - Ordinary Watercourses - Others
 - Unknown



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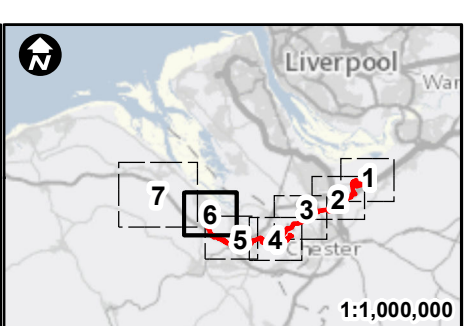
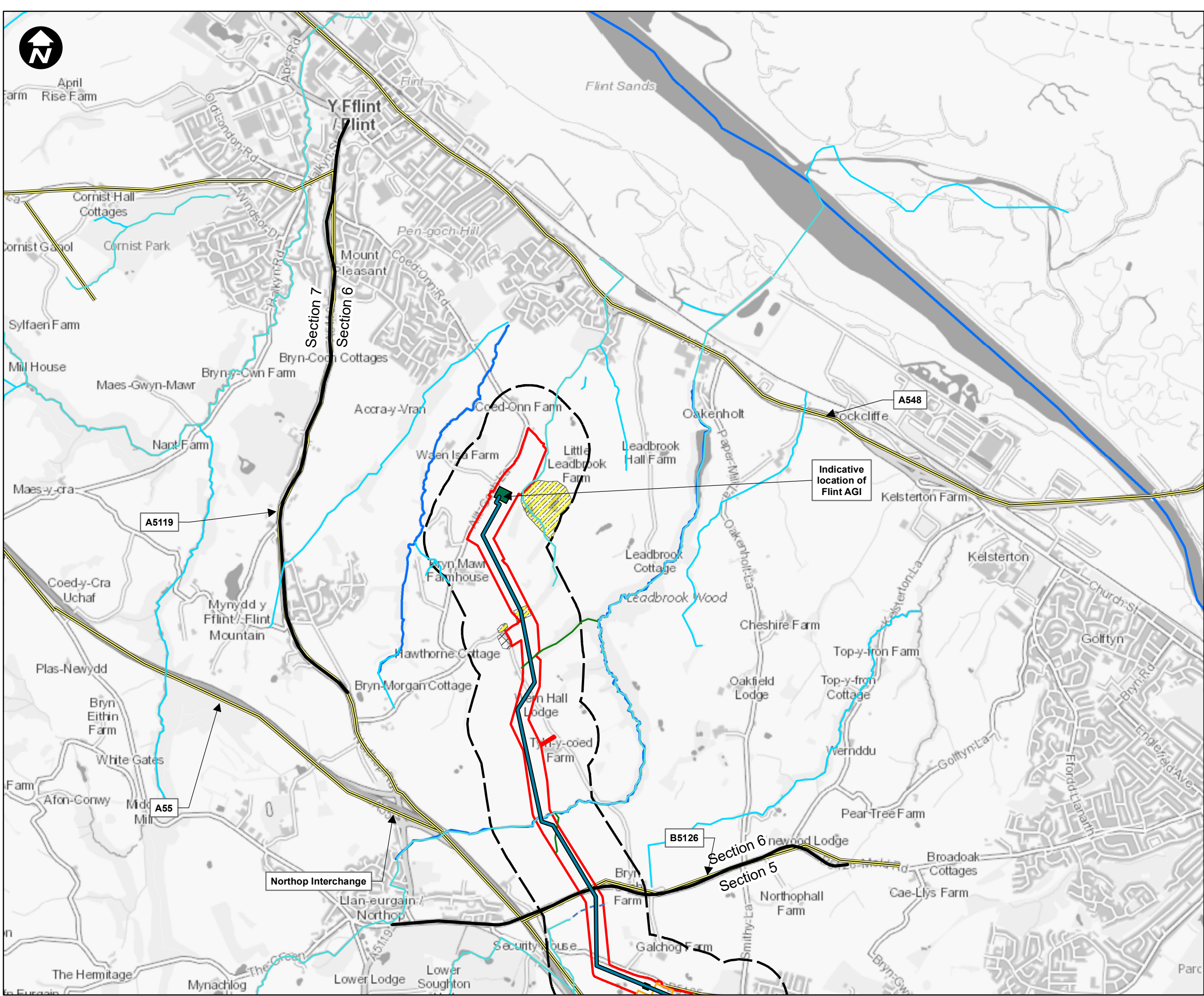
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Sources - Section 5
Sheet 5 of 7

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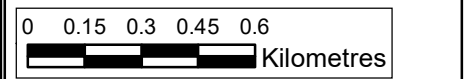
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EN070007-APP-ES-11.1.3-Sheet 5



- Key:**
- Newbuild Infrastructure Boundary
 - Stanlow AGI to Flint AGI
 - Above Ground Installation (AGI)
 - 250m Buffer
 - Main roads / Motorways
 - Sand Pit
 - Temporary construction compounds
 - River/Stream/Beck or other waterway
 - Section Dividing Line
 - Hedgerow
 - Ordinary Watercourse
 - Ordinary Watercourses - Others
 - Unknown



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PROJECT TITLE
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 Carbon Dioxide Pipeline DCO

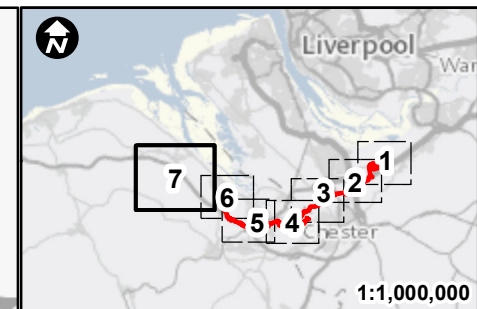
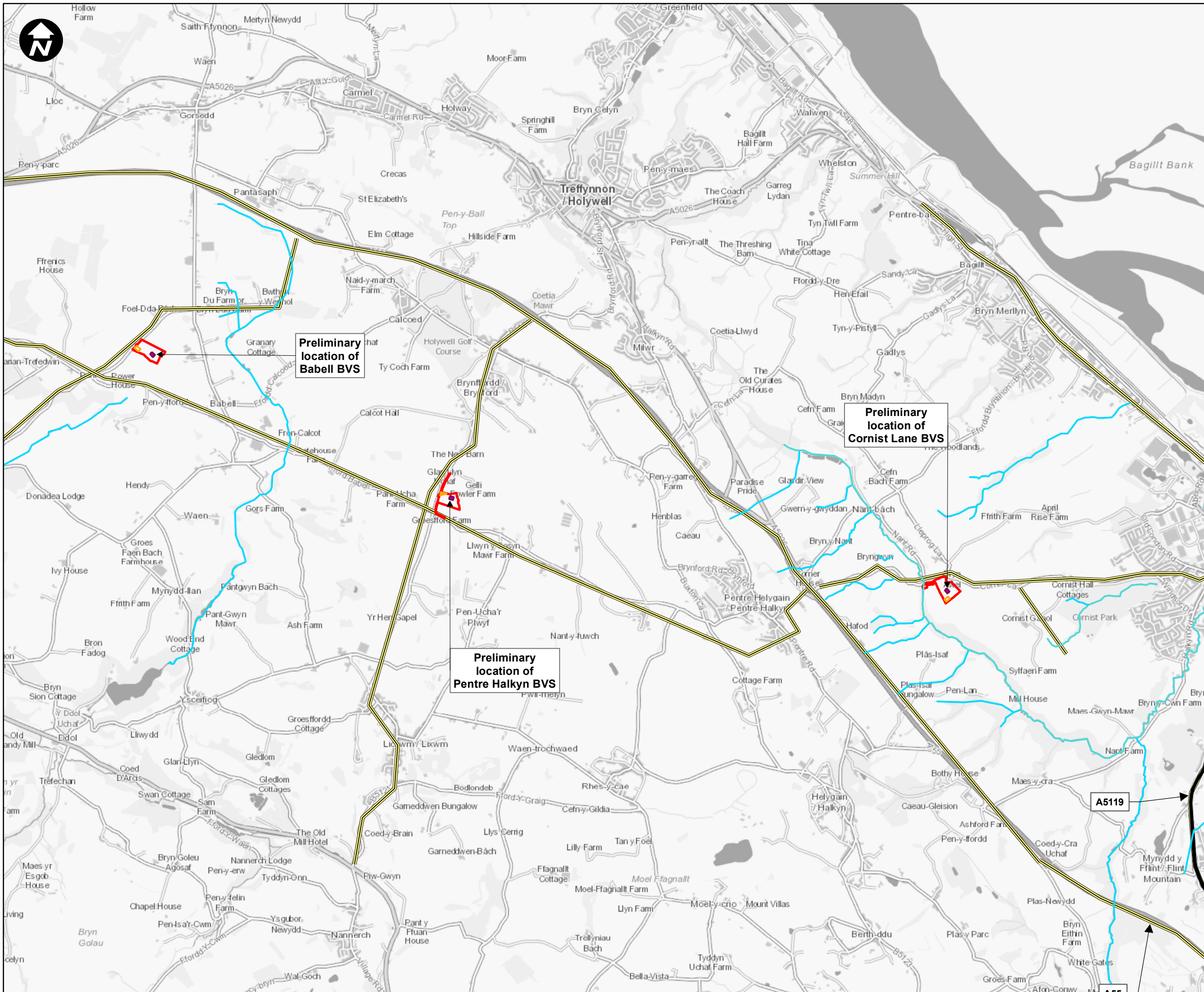
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 Sources - Section 6
 Sheet 6 of 7

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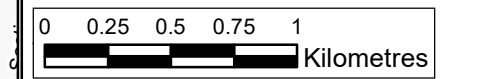
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 EN070007-APP-ES-11.1.3-Sheet 6



- Key:**
- Newbuild Infrastructure Boundary
 - Block Valve Station (BVS)
 - Main roads / Motorways
 - Temporary construction compounds
 - Section Dividing Line
 - Ordinary Watercourse
 - Ordinary Watercourses - Others



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Carbon Dioxide Pipeline DCO

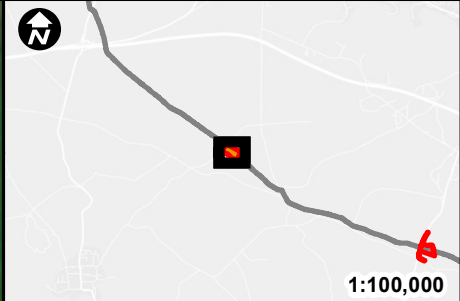
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Sources - Section 7
Sheet 7 of 7

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EN070007-APP-ES-11.1.3-Sheet 7



- Key:**
- Newbuild Infrastructure Boundary
 - Proposed Development Layout
 - Existing Flint Connection to PoA Terminal Pipeline

Babell BVS

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PROJECT TITLE
HyNet Carbon Dioxide Pipeline DCO

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Figure 11.1.4
Block Valve Station Site Layout Plans
Sheet 1 of 3

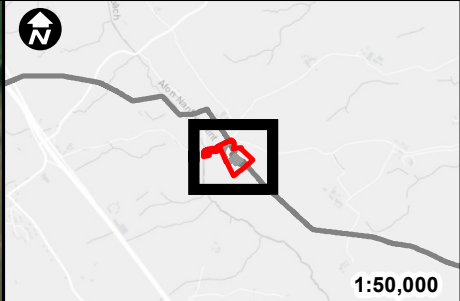
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70070865-APP-ES-11.1.4-Sheet 1





- Key:**
- Newbuild Infrastructure Boundary
 - Proposed Development Layout
 - Existing Flint Connection to PoA Terminal Pipeline

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PROJECT TITLE
HyNet Carbon Dioxide Pipeline DCO

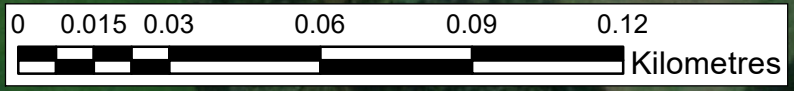
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 Figure 11.1.4
 Block Valve Station Site Layout Plans
 Sheet 2 of 3

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 70070865-APP-ES-11.1.4-Sheet 2





1:50,000

Key:

- Newbuild Infrastructure Boundary
- Proposed Development Layout
- Existing Flint Connection to PoA Terminal Pipeline

Area of proposed tree planting

Pentre Halkyn BVS

Area of proposed tree planting

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PROJECT TITLE
HyNet Carbon Dioxide Pipeline DCO

DRAWING TITLE
Figure 11.1.4
Block Valve Station Site Layout Plans
Sheet 3 of 3

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FOR INFORMATION

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SCALE @ A3 SIZE 1:1,500	DATE 04/08/2022	REVISION P00
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70070865-APP-ES-11.1.4-Sheet 3



Annex B

GROUNDSURE REPORT

It should be noted that this annex was produced at a point in time during the development of the Basic Design of the DCO Proposed Development. Therefore, the design information presented herein may be different to the final Basic Design which is described in **Chapter 3 – Description of the DCO Proposed Development (Volume II)**. However, this annex remains applicable to informing the Environmental Impact Assessment and any associated limitation or assumptions are discussed in the respective Environmental Statement Chapter and Appendix.

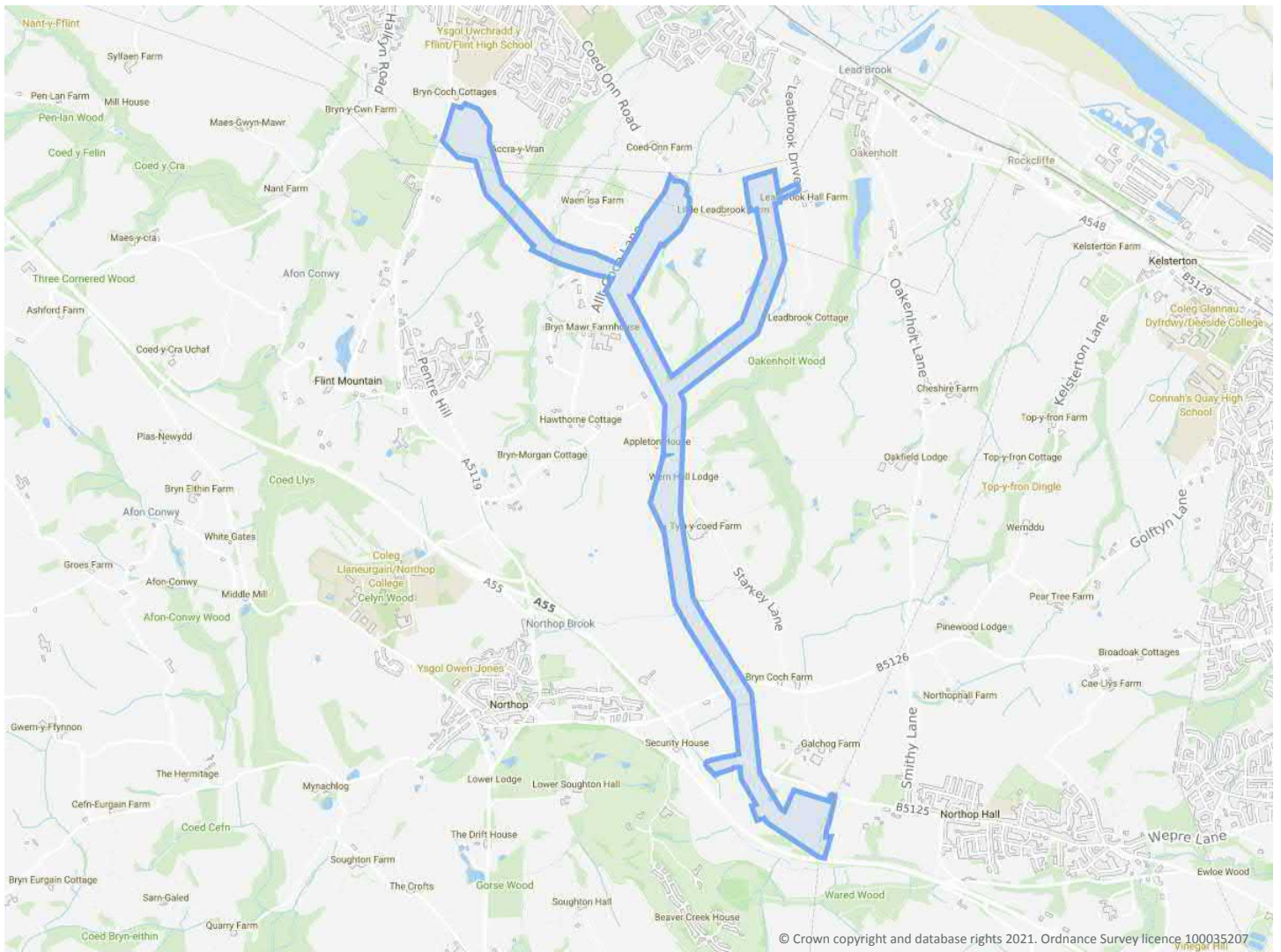
DCO Pipeline, Southern Route

Order Details

Date: 30/07/2021
Your ref: DCO Pipeline, Southern Route
Our Ref: GSIP-2021-10877-7381_A
Client: WSP UK LIMITED

Site Details

Location: 325389 369790
Area: 78.64 ha
Authority: [Sir y Fflint - Flintshire County Council](#)



Summary of findings

p. 2

Aerial image

p. 8

OS MasterMap site plan

N/A: >10ha

groundsure.com/insightuserguide

Contact us with any questions at:

08444 159 000

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
13	1.1	<u>Historical industrial land uses</u>	10	9	68	83	-
20	1.2	<u>Historical tanks</u>	1	2	3	9	-
21	1.3	<u>Historical energy features</u>	0	0	0	8	-
21	1.4	<u>Historical petrol stations</u>	0	0	1	0	-
22	1.5	<u>Historical garages</u>	0	0	2	0	-
22	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
23	2.1	<u>Historical industrial land uses</u>	12	11	89	106	-
31	2.2	<u>Historical tanks</u>	1	3	3	11	-
32	2.3	<u>Historical energy features</u>	0	0	0	18	-
33	2.4	<u>Historical petrol stations</u>	0	0	2	0	-
34	2.5	<u>Historical garages</u>	0	0	3	0	-

Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
35	3.1	Active or recent landfill	0	0	0	0	-
35	3.2	Historical landfill (BGS records)	0	0	0	0	-
36	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
36	3.4	<u>Historical landfill (EA/NRW records)</u>	0	0	0	3	-
37	3.5	Historical waste sites	0	0	0	0	-
37	3.6	Licensed waste sites	0	0	0	0	-
37	3.7	<u>Waste exemptions</u>	0	4	21	36	-

Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
43	4.1	<u>Recent industrial land uses</u>	2	3	20	-	-
45	4.2	<u>Current or recent petrol stations</u>	0	0	1	0	-
45	4.3	Electricity cables	0	0	0	0	-
45	4.4	Gas pipelines	0	0	0	0	-
46	4.5	Sites determined as Contaminated Land	0	0	0	0	-



46	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
46	4.7	Regulated explosive sites	0	0	0	0	-
46	4.8	Hazardous substance storage/usage	0	0	0	0	-
46	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
47	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
47	4.11	<u>Licensed pollutant release (Part A(2)/B)</u>	0	0	1	0	-
47	4.12	Radioactive Substance Authorisations	0	0	0	0	-
47	4.13	<u>Licensed Discharges to controlled waters</u>	0	1	11	10	-
51	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
51	4.15	Pollutant release to public sewer	0	0	0	0	-
51	4.16	List 1 Dangerous Substances	0	0	0	0	-
51	4.17	List 2 Dangerous Substances	0	0	0	0	-
51	4.18	<u>Pollution Incidents (EA/NRW)</u>	0	0	3	15	-
54	4.19	Pollution inventory substances	0	0	0	0	-
54	4.20	Pollution inventory waste transfers	0	0	0	0	-
54	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
55	5.1	<u>Superficial aquifer</u>	Identified (within 500m)				
59	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
61	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
65	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
65	5.5	<u>Groundwater vulnerability- local information</u>	Identified (within 0m)				
66	5.6	<u>Groundwater abstractions</u>	0	0	0	0	4
67	5.7	<u>Surface water abstractions</u>	0	0	0	3	6
69	5.8	Potable abstractions	0	0	0	0	0
70	5.9	Source Protection Zones	0	0	0	0	-
70	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
71	6.1	<u>Water Network (OS MasterMap)</u>	9	12	44	-	-



<u>77</u>	<u>6.2</u>	<u>Surface water features</u>	1	11	48	-	-
<u>77</u>	<u>6.3</u>	<u>WFD Surface water body catchments</u>	2	-	-	-	-
<u>77</u>	<u>6.4</u>	<u>WFD Surface water bodies</u>	0	1	0	-	-
<u>78</u>	<u>6.5</u>	<u>WFD Groundwater bodies</u>	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
<u>79</u>	<u>7.1</u>	<u>Risk of Flooding from Rivers and Sea (RoFRaS)</u>	High (within 50m)				
80	7.2	Historical Flood Events	0	0	0	-	-
80	7.3	Flood Defences	0	0	0	-	-
80	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
80	7.5	Flood Storage Areas	0	0	0	-	-
<u>81</u>	<u>7.6</u>	<u>Flood Zone 2</u>	Identified (within 50m)				
<u>82</u>	<u>7.7</u>	<u>Flood Zone 3</u>	Identified (within 50m)				
Page	Section	Surface water flooding					
<u>83</u>	<u>8.1</u>	<u>Surface water flooding</u>	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	Groundwater flooding					
<u>85</u>	<u>9.1</u>	<u>Groundwater flooding</u>	Moderate-High (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
<u>86</u>	<u>10.1</u>	<u>Sites of Special Scientific Interest (SSSI)</u>	1	0	0	0	10
<u>87</u>	<u>10.2</u>	<u>Conserved wetland sites (Ramsar sites)</u>	0	0	0	0	3
<u>90</u>	<u>10.3</u>	<u>Special Areas of Conservation (SAC)</u>	0	0	0	0	6
<u>92</u>	<u>10.4</u>	<u>Special Protection Areas (SPA)</u>	0	0	0	0	2
93	10.5	National Nature Reserves (NNR)	0	0	0	0	0
93	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
<u>93</u>	<u>10.7</u>	<u>Designated Ancient Woodland</u>	2	1	10	10	99
98	10.8	Biosphere Reserves	0	0	0	0	0
98	10.9	Forest Parks	0	0	0	0	0
98	10.10	Marine Conservation Zones	0	0	0	0	0
99	10.11	Green Belt	0	0	0	0	0
99	10.12	Proposed Ramsar sites	0	0	0	0	0



99	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
99	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
99	10.15	Nitrate Sensitive Areas	0	0	0	0	0
100	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
101	10.17	<u>SSSI Impact Risk Zones</u>	2	-	-	-	-
102	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
103	11.1	World Heritage Sites	0	0	0	-	-
104	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
104	11.3	National Parks	0	0	0	-	-
104	11.4	<u>Listed Buildings</u>	0	0	2	-	-
105	11.5	Conservation Areas	0	0	0	-	-
105	11.6	<u>Scheduled Ancient Monuments</u>	0	0	1	-	-
105	11.7	<u>Registered Parks and Gardens</u>	0	0	1	-	-

Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
106	12.1	<u>Agricultural Land Classification</u>	Grade 4 (within 250m)				
108	12.2	Open Access Land	0	0	0	-	-
108	12.3	Tree Felling Licences	0	0	0	-	-
108	12.4	Environmental Stewardship Schemes	0	0	0	-	-
109	12.5	Countryside Stewardship Schemes	0	0	0	-	-

Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
110	13.1	Priority Habitat Inventory	0	0	0	-	-
110	13.2	Habitat Networks	0	0	0	-	-
110	13.3	Open Mosaic Habitat	0	0	0	-	-
110	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
111	14.1	<u>10k Availability</u>	Identified (within 500m)				
112	14.2	Artificial and made ground (10k)	0	0	0	0	-
113	14.3	Superficial geology (10k)	0	0	0	0	-



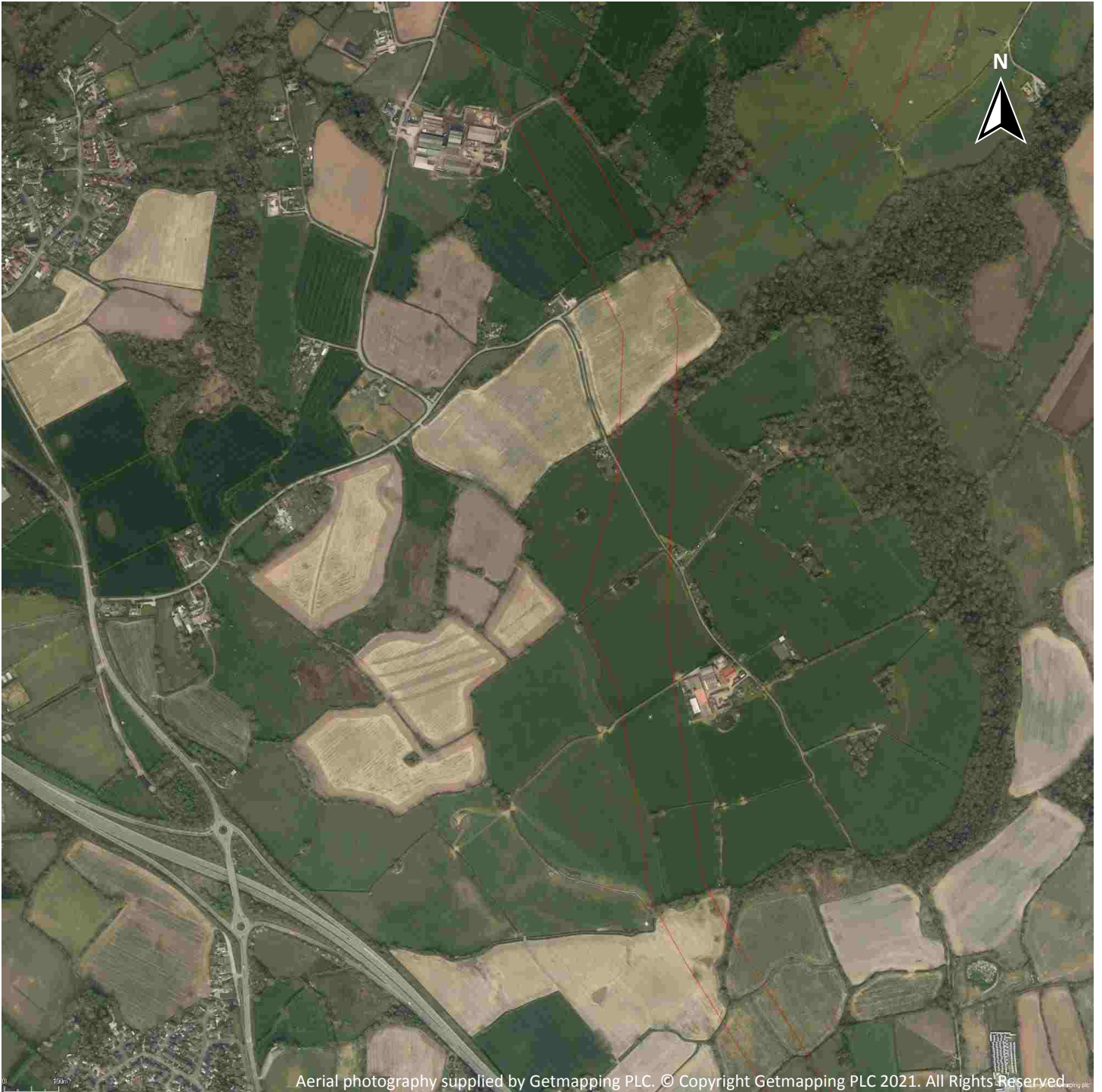
113	14.4	Landslip (10k)	0	0	0	0	-
114	14.5	Bedrock geology (10k)	0	0	0	0	-
114	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
115	15.1	50k Availability	Identified (within 500m)				
116	15.2	Artificial and made ground (50k)	2	0	2	2	-
117	15.3	Artificial ground permeability (50k)	2	0	-	-	-
118	15.4	Superficial geology (50k)	7	7	9	12	-
120	15.5	Superficial permeability (50k)	Identified (within 50m)				
121	15.6	Landslip (50k)	2	0	1	2	-
121	15.7	Landslip permeability (50k)	Identified (within 50m)				
123	15.8	Bedrock geology (50k)	16	0	15	11	-
126	15.9	Bedrock permeability (50k)	Identified (within 50m)				
127	15.10	Bedrock faults and other linear features (50k)	23	3	18	18	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
130	16.1	BGS Boreholes	3	4	60	-	-
Page	Section	Natural ground subsidence					
134	17.1	Shrink swell clays	Very low (within 50m)				
136	17.2	Running sands	Low (within 50m)				
138	17.3	Compressible deposits	Moderate (within 50m)				
140	17.4	Collapsible deposits	Very low (within 50m)				
142	17.5	Landslides	Moderate (within 50m)				
144	17.6	Ground dissolution of soluble rocks	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
146	18.1	Natural cavities	0	0	0	3	-
147	18.2	BritPits	1	0	3	6	-
149	18.3	Surface ground workings	13	8	110	-	-
154	18.4	Underground workings	0	2	23	10	16
156	18.5	Historical Mineral Planning Areas	1	0	0	0	-



157	18.6	<u>Non-coal mining</u>	5	1	4	4	7
159	18.7	Mining cavities	0	0	0	0	0
159	18.8	<u>JPB mining areas</u>	Identified (within 0m)				
160	18.9	<u>Coal mining</u>	Identified (within 0m)				
160	18.10	Brine areas	None (within 0m)				
160	18.11	Gypsum areas	None (within 0m)				
161	18.12	Tin mining	None (within 0m)				
161	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
162	19.1	<u>Radon</u>	Greater than 30% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
164	20.1	<u>BGS Estimated Background Soil Chemistry</u>	71	28	-	-	-
170	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
170	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
171	21.1	Underground railways (London)	0	0	0	-	-
171	21.2	Underground railways (Non-London)	0	0	0	-	-
171	21.3	Railway tunnels	0	0	0	-	-
171	21.4	Historical railway and tunnel features	0	0	0	-	-
171	21.5	Royal Mail tunnels	0	0	0	-	-
172	21.6	Historical railways	0	0	0	-	-
172	21.7	Railways	0	0	0	-	-
172	21.8	Crossrail 1	0	0	0	0	-
172	21.9	Crossrail 2	0	0	0	0	-
172	21.10	HS2	0	0	0	0	-



Recent aerial photograph



Capture Date: 10/04/2020

Site Area: 78.64ha



Contact us with any questions at:


08444 159 000

Date: 30 July 2021

Recent site history - 2017 aerial photograph



Capture Date: 07/05/2017

Site Area: 78.64ha



Contact us with any questions at:

08444 159 000

Date: 30 July 2021



Recent site history - 2013 aerial photograph



Capture Date: 04/06/2013

Site Area: 78.64ha

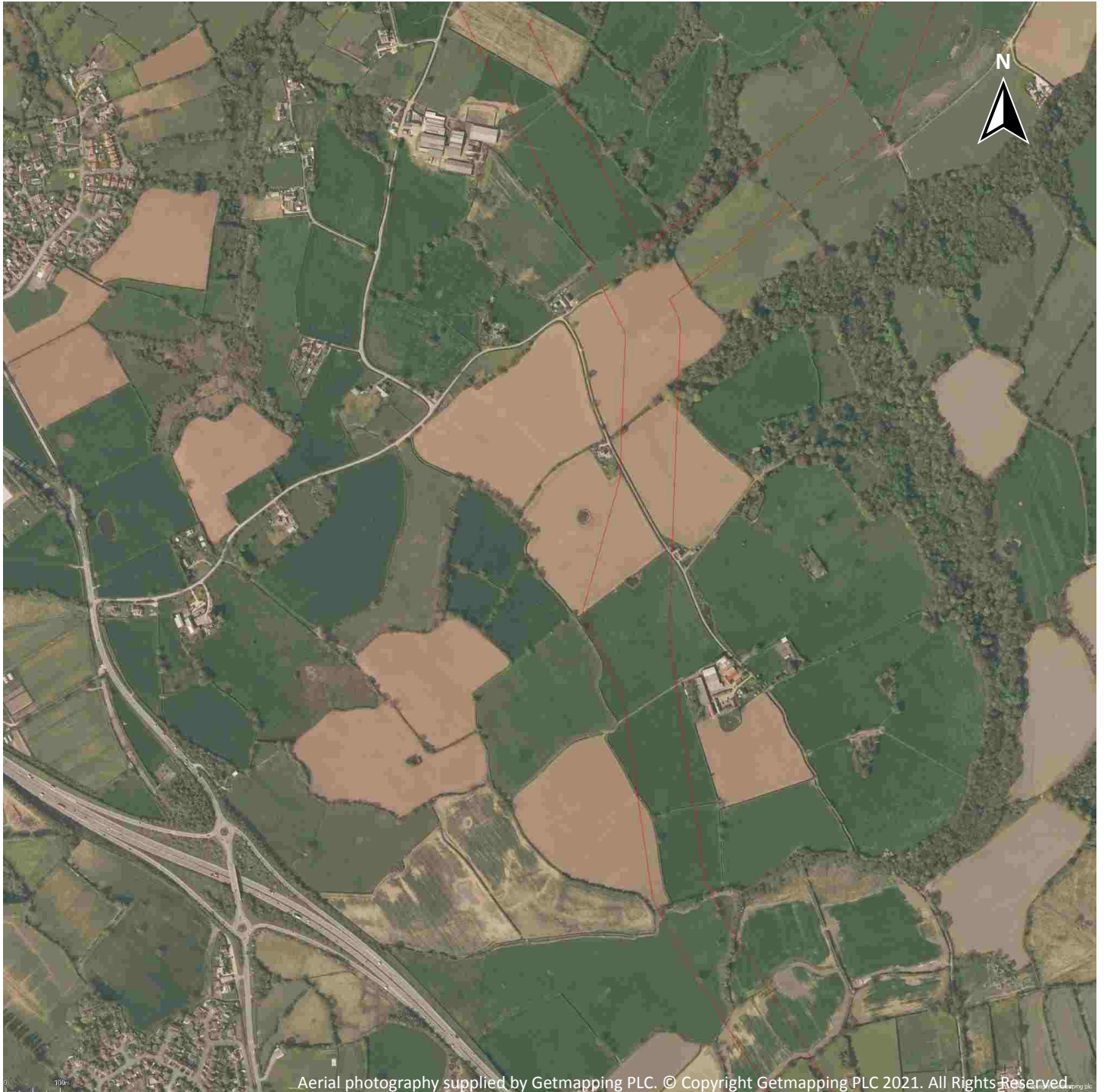


Contact us with any questions at:


08444 159 000

Date: 30 July 2021

Recent site history - 2009 aerial photograph



Capture Date: 20/04/2009

Site Area: 78.64ha



Contact us with any questions at:


08444 159 000

Date: 30 July 2021

Recent site history - 2001 aerial photograph



Capture Date: 28/07/2001

Site Area: 78.64ha

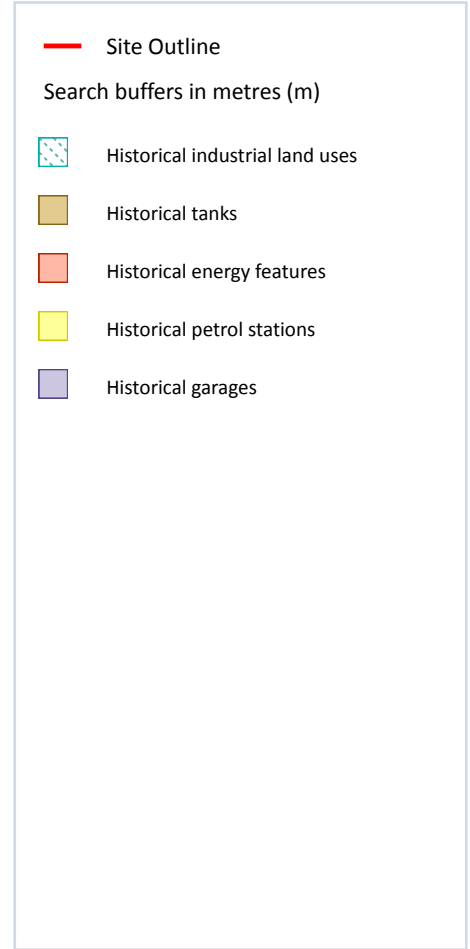
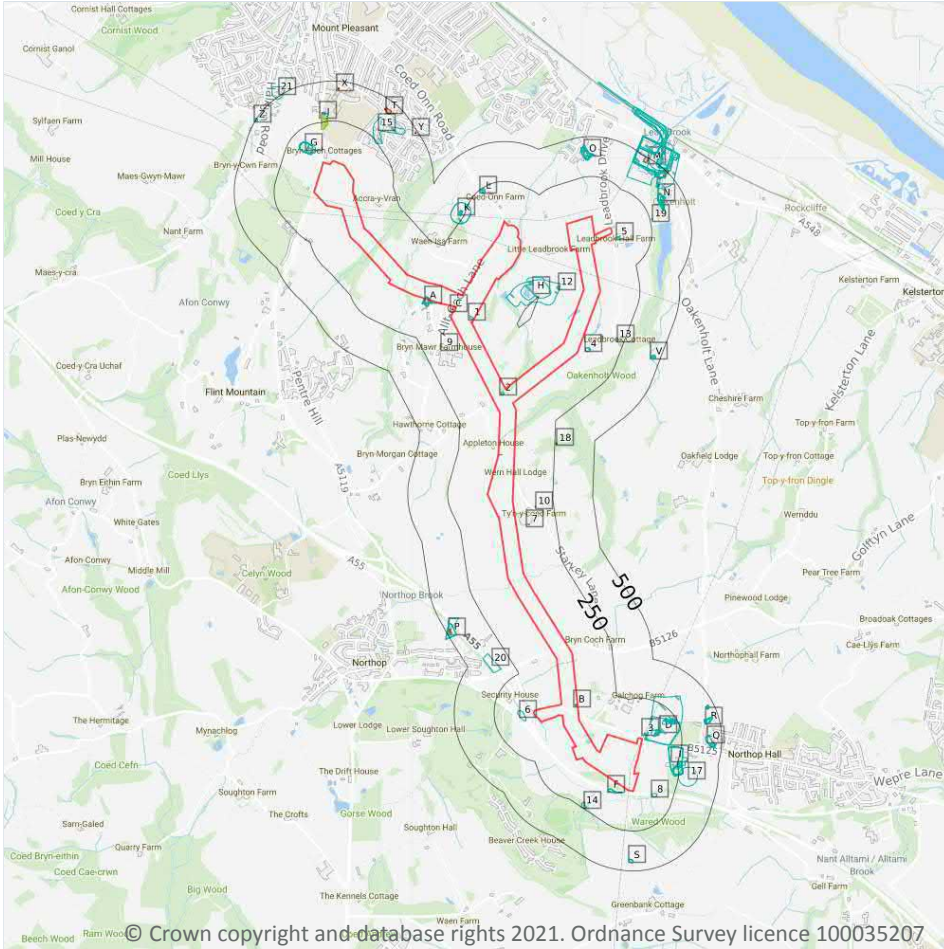


Contact us with any questions at:

08444 159 000

Date: 30 July 2021

1 Past land use



1.1 Historical industrial land uses

Records within 500m **170**

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 13**

ID	Location	Land use	Dates present	Group ID
1	On site	Unspecified Pit	1871	839243

ID	Location	Land use	Dates present	Group ID
2	On site	Sand Pit	1914 - 1948	870545
A	On site	Sand Pit	1871	797393
A	On site	Unspecified Ground Workings	1909	799545
A	On site	Unspecified Pit	1959	867140
A	On site	Unspecified Pit	1948	874626
A	On site	Unspecified Pit	1938	895332
B	On site	Unspecified Tank	1948	848239
B	On site	Unspecified Tank	1914	850694
B	On site	Unspecified Tank	1960	862792
A	6m S	Old Lime Kiln	1909 - 1948	903166
A	6m S	Unspecified Tank	1871	824072
A	10m S	Old Lime Kiln	1959	950102
D	15m E	Colliery	1869	798233
E	21m E	Disused Colliery	1898	822314
3	32m NE	Lime Kiln	1869	842743
F	36m SW	Unspecified Pit	1960	839175
4	41m E	Sand Pit	1871	797390
5	44m SE	Unspecified Tank	1869	824073
F	51m SW	Unspecified Ground Workings	1970	799544
6	59m SW	Unspecified Heap	1991	803587
D	68m NE	Unspecified Heap	1869	914965
G	87m NW	Unspecified Heap	1969 - 1992	933609
D	87m E	Unspecified Shaft	1869	813707
D	88m NE	Unspecified Heap	1910 - 1938	887399
D	89m E	Unspecified Heap	1948	900245
D	90m E	Unspecified Pit	1960	839176
G	91m NW	Unspecified Heap	1909	900482
G	93m NW	Unspecified Heap	1959	950751



ID	Location	Land use	Dates present	Group ID
G	93m NW	Unspecified Heap	1938 - 1948	967921
D	93m E	Unspecified Heap	1970	923120
D	95m E	Old Coal Shaft	1938	926927
D	96m E	Unspecified Old Shaft	1970	903416
D	96m E	Unspecified Old Shaft	1960	925103
D	96m E	Old Coal Shaft	1948	988776
D	98m E	Old Coal Shaft	1910	849783
G	106m NW	Unspecified Heap	1871	932485
H	110m SE	Unspecified Ground Workings	1969 - 1981	989010
8	115m E	Unspecified Heap	1970	803588
H	124m SE	Old Sand Pit	1953	834207
G	136m NW	Unspecified Heap	1898	988755
11	142m SE	Sand Pit	1871	797392
12	146m W	Sand Pit	1871	797391
E	161m NE	Unspecified Heap	1869	937178
I	171m E	Colliery	1948	904263
I	171m E	Colliery	1898 - 1910	927848
I	173m E	Colliery	1938	908735
E	182m NE	Unspecified Old Shafts	1898	793174
E	183m NE	Unspecified Heap	1938	904714
E	187m NE	Unspecified Shafts	1869	809173
E	190m NE	Old Coal Shafts	1938 - 1948	865915
E	191m NE	Unspecified Old Shafts	1960	868847
E	191m NE	Unspecified Old Shafts	1970	891045
E	191m NE	Old Coal Shafts	1910	900028
E	191m NE	Unspecified Disused Shafts	1981 - 1987	966208
E	195m NE	Unspecified Old Shafts	1898	793173
E	195m NE	Unspecified Disused Shafts	1991	854228



ID	Location	Land use	Dates present	Group ID
13	200m E	Old Lime Kiln	1869	821885
E	201m NE	Unspecified Shafts	1869	809172
E	203m NE	Unspecified Heap	1910 - 1948	850434
J	204m N	Filling Station	1981	810493
J	206m N	Garage	1992	844096
E	208m NE	Unspecified Heap	1970 - 1987	905587
E	208m NE	Unspecified Heap	1898	927463
E	209m NE	Unspecified Heap	1991	948322
E	209m NE	Old Coal Shafts	1938 - 1948	848084
E	210m NE	Unspecified Old Shafts	1970	920069
E	211m NE	Old Coal Shafts	1910	921886
E	211m NE	Unspecified Disused Shafts	1981 - 1987	866230
E	211m NE	Unspecified Old Shafts	1960	918138
E	213m NE	Unspecified Heap	1960	859195
K	214m W	Filter Bed	1953	845084
L	214m NW	Unspecified Pit	1969 - 1981	952266
14	214m SW	Unspecified Pit	1871	839174
E	215m NE	Unspecified Disused Shafts	1991	835401
I	216m E	Unspecified Disused Mine	1960	810915
I	216m E	Unspecified Ground Workings	1970	967188
I	216m E	Unspecified Ground Workings	1910	917742
K	217m W	Filter Bed	1948	980255
I	217m E	Unspecified Heap	1938	918071
L	218m NW	Unspecified Heap	1871	803518
E	219m NE	Chimney	1869	835665
I	219m E	Unspecified Ground Workings	1948	893610
I	238m E	Unspecified Heap	1898	856493
15	240m NE	Unspecified Depot	1969	818237



ID	Location	Land use	Dates present	Group ID
16	245m N	Lime Kiln	1871	842742
I	245m E	Unspecified Tank	1987	824094
I	250m E	Unspecified Disused Shaft	1970	812921
17	251m E	Magazine	1948	827271
19	260m E	Unspecified Tank	1869	824074
K	266m W	Unspecified Works	1969 - 1981	853089
K	267m W	Filter Bed	1938	953177
K	268m W	Filter Bed	1909	869939
20	331m SW	Cuttings	1991	795491
M	335m NE	Unspecified Mill	1898	851905
N	337m NE	Unspecified Heap	1913	867243
N	342m NE	Unspecified Heap	1953	976289
N	342m NE	Unspecified Ground Workings	1938	901072
N	343m NE	Unspecified Heap	1909	881466
N	345m E	Unspecified Heap	1898	845761
N	345m E	Unspecified Heap	1938	918690
N	348m NE	Unspecified Heap	1898	873881
O	351m N	Unspecified Old Quarry	1909 - 1938	946359
O	353m N	Unspecified Old Quarry	1898	982936
O	353m N	Unspecified Old Quarry	1938	915595
O	356m N	Unspecified Quarry	1871	816584
O	356m N	Unspecified Old Quarry	1953	870905
O	357m N	Unspecified Old Quarry	1898	978644
O	357m N	Unspecified Old Quarry	1948	991130
M	385m NE	Paper Mill	1938 - 1953	977757
P	390m SW	Unspecified Works	1971	830103
Q	397m E	Unspecified Heap	1869	974348
R	407m E	Unspecified Heap	1938	911100



ID	Location	Land use	Dates present	Group ID
R	408m E	Unspecified Heap	1910	983167
R	408m E	Unspecified Heap	1960	908010
R	408m E	Unspecified Heap	1970 - 1987	950963
R	411m E	Old Coal Shaft	1948	867599
R	411m E	Unspecified Old Shaft	1898	931688
R	413m E	Old Coal Shaft	1938	951225
R	413m E	Unspecified Old Shaft	1960	966997
R	413m E	Unspecified Old Shaft	1970	986341
R	415m E	Old Coal Shaft	1910	882454
R	415m E	Unspecified Heap	1948	897135
R	415m E	Unspecified Heap	1898	941796
R	416m E	Unspecified Disused Shaft	1981 - 1987	982781
Q	418m E	Unspecified Old Shaft	1898	927894
Q	418m E	Old Coal Shaft	1948	943523
Q	421m E	Unspecified Old Shaft	1960	954704
Q	423m E	Old Coal Shaft	1938	864298
Q	423m E	Old Coal Shaft	1910	962976
M	426m NE	Unspecified Mill	1981	955439
S	426m S	Unspecified Heap	1910	965565
Q	427m E	Unspecified Heap	1898	923815
M	427m NE	Railway Sidings	1898	849862
S	427m S	Unspecified Heap	1938 - 1948	940217
M	427m NE	Unspecified Mill	1913 - 1938	919608
M	429m NE	Unspecified Mill	1969	864632
M	429m NE	Railway Sidings	1953 - 1969	915578
S	429m S	Unspecified Heap	1960	933546
Q	429m E	Unspecified Heap	1938	913282
M	429m NE	Unspecified Old Mill	1909	809862



ID	Location	Land use	Dates present	Group ID
U	431m NE	Gasometer	1913	874828
Q	431m E	Unspecified Heap	1910	937871
M	432m NE	Railway Sidings	1938	965788
M	433m NE	Railway Sidings	1913	984779
U	433m NE	Gasometer	1909	946750
U	434m NE	Gasometer	1938	901383
M	434m NE	Railway Sidings	1938	906171
U	435m NE	Unspecified Tank	1898	845028
U	435m NE	Unspecified Tank	1938	867996
M	436m NE	Railway Sidings	1909	870683
V	445m E	Sand Pit	1869	797388
P	447m SW	Sewage Works	1989	811815
W	447m NE	Unspecified Heap	1960	958716
P	448m SW	Unspecified Tanks	1989	814986
W	448m NE	Unspecified Heap	1938	904274
W	448m NE	Unspecified Heap	1910	883085
W	449m NE	Unspecified Heap	1948	957881
V	449m E	Unspecified Old Quarry	1938 - 1953	850833
V	449m E	Unspecified Old Quarry	1913	937408
M	463m NE	Flour Mill	1869	822620
P	470m SW	Unspecified Tank	1971	824071
P	471m SW	Sewage Filterbed	1898	830965
P	471m SW	Sewage Tank	1948	850232
P	473m SW	Sewage Tank	1914	891472
21	483m NW	Unspecified Depot	1981 - 1992	890123
Z	487m NW	Sand Pits	1948	872607
Z	489m NW	Sand Pits	1909 - 1938	958100
Z	495m NW	Disused Sand Pits	1959	810759



ID	Location	Land use	Dates present	Group ID
22	498m NW	Lime Kiln	1871	842723

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	15
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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 13**

ID	Location	Land use	Dates present	Group ID
B	On site	Unspecified Tank	1912	111818
C	10m NW	Unspecified Tank	1965	123420
C	11m NW	Unspecified Tank	1991	147036
7	75m E	Unspecified Tank	1965	111812
9	125m SW	Unspecified Tank	1965	111897
10	133m E	Unspecified Tank	1870	111813
18	255m E	Unspecified Tank	1899	111796
U	432m NE	Gasometer	1899 - 1912	123125
U	465m NE	Unspecified Tank	1986	111916
U	467m NE	Tanks	1993	104551
P	470m SW	Unspecified Tank	1965 - 1992	135731
U	470m NE	Unspecified Tank	1986	111913
P	474m SW	Sewage Tank	1912	108765
U	490m NE	Tanks	1986	104552
U	496m NE	Tanks	1993	104553

This data is sourced from Ordnance Survey / Groundsure.



1.3 Historical energy features

Records within 500m

8

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 13**

ID	Location	Land use	Dates present	Group ID
T	427m NE	Electricity Substation	1978	60823
T	431m NE	Electricity Substation	1988 - 1996	74299
U	432m NE	Gasometer	1899 - 1912	80021
X	449m N	Electricity Substation	1974 - 1997	65722
X	449m N	Electricity Substation	1989	69546
M	464m NE	Electricity Substation	1986 - 1993	75652
Y	483m NE	Electricity Substation	1988	66675
Y	485m NE	Electricity Substation	1978	78937

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m

1

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'.

Features are displayed on the Past land use map on **page 13**

ID	Location	Land use	Dates present	Group ID
J	204m N	Filling Station	1978 - 1988	1655

This data is sourced from Ordnance Survey / Groundsure.



1.5 Historical garages

Records within 500m

2

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'.

Features are displayed on the Past land use map on **page 13**

ID	Location	Land use	Dates present	Group ID
J	205m N	Garage	1991	21122
J	206m N	Garage	1994 - 1996	25436

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

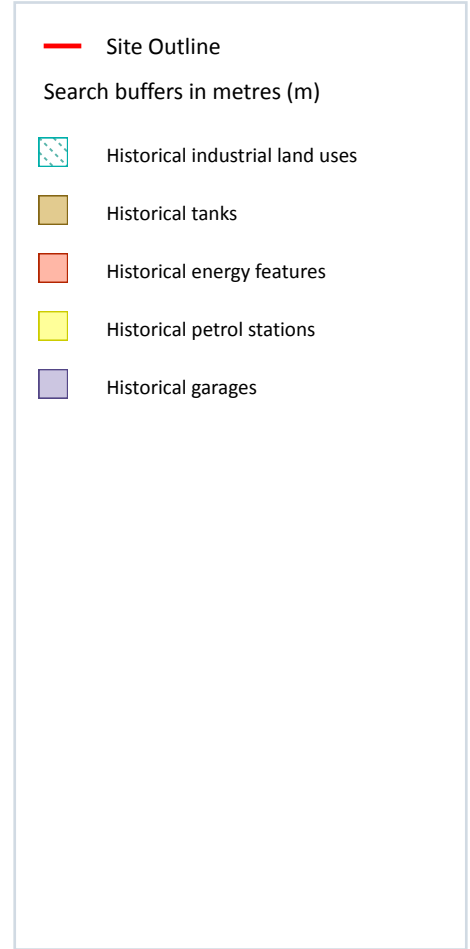
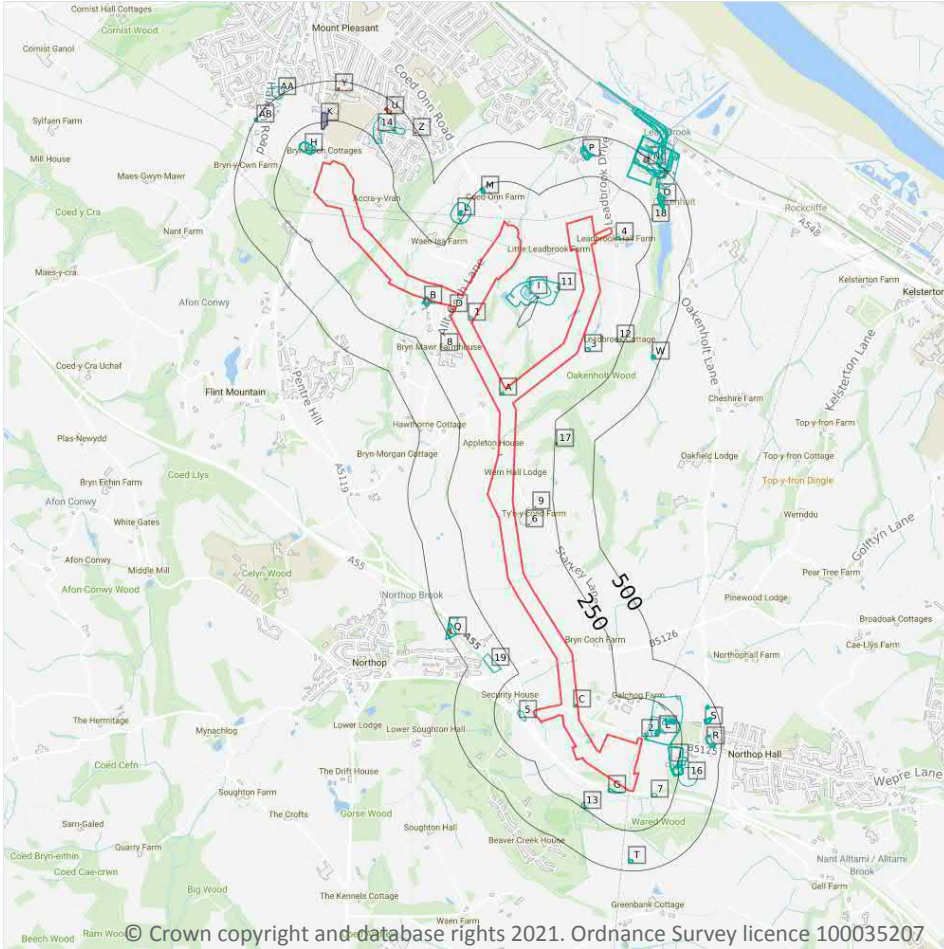
Records within 500m

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



2.1 Historical industrial land uses

Records within 500m

218

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 23**

ID	Location	Land Use	Date	Group ID
1	On site	Unspecified Pit	1871	839243
A	On site	Sand Pit	1948	870545
A	On site	Sand Pit	1914	870545

ID	Location	Land Use	Date	Group ID
B	On site	Sand Pit	1871	797393
B	On site	Unspecified Ground Workings	1909	799545
B	On site	Unspecified Pit	1959	867140
B	On site	Unspecified Pit	1948	874626
B	On site	Unspecified Pit	1938	895332
B	On site	Unspecified Pit	1938	895332
C	On site	Unspecified Tank	1948	848239
C	On site	Unspecified Tank	1960	862792
C	On site	Unspecified Tank	1914	850694
B	6m S	Old Lime Kiln	1909	903166
B	6m S	Unspecified Tank	1871	824072
B	7m S	Old Lime Kiln	1948	903166
B	8m S	Old Lime Kiln	1938	903166
B	10m S	Old Lime Kiln	1959	950102
E	15m E	Colliery	1869	798233
F	21m E	Disused Colliery	1898	822314
2	32m NE	Lime Kiln	1869	842743
G	36m SW	Unspecified Pit	1960	839175
3	41m E	Sand Pit	1871	797390
4	44m SE	Unspecified Tank	1869	824073
G	51m SW	Unspecified Ground Workings	1970	799544
5	59m SW	Unspecified Heap	1991	803587
E	68m NE	Unspecified Heap	1869	914965
H	87m NW	Unspecified Heap	1992	933609
H	87m NW	Unspecified Heap	1969	933609
H	87m NW	Unspecified Heap	1981	933609
E	87m E	Unspecified Shaft	1869	813707
E	88m NE	Unspecified Heap	1938	887399



ID	Location	Land Use	Date	Group ID
E	88m NE	Unspecified Heap	1938	887399
E	89m E	Unspecified Heap	1948	900245
E	89m E	Unspecified Heap	1910	887399
E	90m E	Unspecified Pit	1960	839176
H	91m NW	Unspecified Heap	1909	900482
H	93m NW	Unspecified Heap	1959	950751
H	93m NW	Unspecified Heap	1938	967921
H	93m NW	Unspecified Heap	1938	967921
E	93m E	Unspecified Heap	1970	923120
H	94m NW	Unspecified Heap	1948	967921
E	95m E	Old Coal Shaft	1938	926927
E	96m E	Unspecified Old Shaft	1960	925103
E	96m E	Unspecified Old Shaft	1970	903416
E	96m E	Old Coal Shaft	1948	988776
E	98m E	Old Coal Shaft	1910	849783
H	106m NW	Unspecified Heap	1871	932485
I	110m SE	Unspecified Ground Workings	1981	989010
I	110m SE	Unspecified Ground Workings	1969	989010
7	115m E	Unspecified Heap	1970	803588
I	124m SE	Old Sand Pit	1953	834207
H	136m NW	Unspecified Heap	1898	988755
10	142m SE	Sand Pit	1871	797392
11	146m W	Sand Pit	1871	797391
F	161m NE	Unspecified Heap	1869	937178
J	171m E	Colliery	1948	904263
J	171m E	Colliery	1898	927848
J	173m E	Colliery	1938	908735
J	173m E	Colliery	1938	908735



ID	Location	Land Use	Date	Group ID
J	175m E	Colliery	1910	927848
F	182m NE	Unspecified Old Shafts	1898	793174
F	183m NE	Unspecified Heap	1938	904714
F	183m NE	Unspecified Heap	1938	904714
F	187m NE	Unspecified Shafts	1869	809173
F	190m NE	Old Coal Shafts	1938	865915
F	190m NE	Old Coal Shafts	1948	865915
F	191m NE	Old Coal Shafts	1910	900028
F	191m NE	Unspecified Old Shafts	1960	868847
F	191m NE	Unspecified Old Shafts	1970	891045
F	191m NE	Unspecified Disused Shafts	1987	966208
F	191m NE	Unspecified Disused Shafts	1981	966208
F	195m NE	Unspecified Old Shafts	1898	793173
F	195m NE	Unspecified Disused Shafts	1991	854228
12	200m E	Old Lime Kiln	1869	821885
F	201m NE	Unspecified Shafts	1869	809172
F	203m NE	Unspecified Heap	1938	850434
F	203m NE	Unspecified Heap	1938	850434
K	204m N	Filling Station	1981	810493
F	204m NE	Unspecified Heap	1910	850434
F	204m NE	Unspecified Heap	1948	850434
K	206m N	Garage	1992	844096
F	208m NE	Unspecified Heap	1970	905587
F	208m NE	Unspecified Heap	1898	927463
F	208m NE	Unspecified Heap	1987	905587
F	208m NE	Unspecified Heap	1981	905587
F	209m NE	Unspecified Heap	1991	948322
F	209m NE	Old Coal Shafts	1938	848084



ID	Location	Land Use	Date	Group ID
F	210m NE	Old Coal Shafts	1948	848084
F	210m NE	Unspecified Old Shafts	1970	920069
F	211m NE	Old Coal Shafts	1910	921886
F	211m NE	Unspecified Disused Shafts	1987	866230
F	211m NE	Unspecified Disused Shafts	1981	866230
F	211m NE	Unspecified Old Shafts	1960	918138
F	213m NE	Unspecified Heap	1960	859195
L	214m W	Filter Bed	1953	845084
M	214m NW	Unspecified Pit	1981	952266
M	214m NW	Unspecified Pit	1969	952266
13	214m SW	Unspecified Pit	1871	839174
F	215m NE	Unspecified Disused Shafts	1991	835401
J	216m E	Unspecified Disused Mine	1960	810915
J	216m E	Unspecified Ground Workings	1970	967188
J	216m E	Unspecified Ground Workings	1910	917742
L	217m W	Filter Bed	1948	980255
J	217m E	Unspecified Heap	1938	918071
J	217m E	Unspecified Heap	1938	918071
M	218m NW	Unspecified Heap	1871	803518
F	219m NE	Chimney	1869	835665
J	219m E	Unspecified Ground Workings	1948	893610
J	238m E	Unspecified Heap	1898	856493
14	240m NE	Unspecified Depot	1969	818237
15	245m N	Lime Kiln	1871	842742
J	245m E	Unspecified Tank	1987	824094
J	250m E	Unspecified Disused Shaft	1970	812921
16	251m E	Magazine	1948	827271
18	260m E	Unspecified Tank	1869	824074



ID	Location	Land Use	Date	Group ID
L	266m W	Unspecified Works	1981	853089
L	266m W	Unspecified Works	1969	853089
L	267m W	Filter Bed	1938	953177
L	267m W	Filter Bed	1938	953177
L	268m W	Filter Bed	1909	869939
19	331m SW	Cuttings	1991	795491
N	335m NE	Unspecified Mill	1898	851905
O	337m NE	Unspecified Heap	1913	867243
O	337m NE	Unspecified Heap	1913	867243
N	338m NE	Unspecified Mill	1898	851905
O	342m NE	Unspecified Heap	1953	976289
O	342m NE	Unspecified Ground Workings	1938	901072
O	342m NE	Unspecified Ground Workings	1938	901072
O	343m NE	Unspecified Heap	1909	881466
O	345m E	Unspecified Heap	1938	918690
O	345m E	Unspecified Heap	1898	845761
O	348m NE	Unspecified Heap	1898	873881
P	351m N	Unspecified Old Quarry	1909	946359
P	353m N	Unspecified Old Quarry	1898	982936
P	353m N	Unspecified Old Quarry	1938	915595
P	354m N	Unspecified Old Quarry	1909	946359
P	356m N	Unspecified Quarry	1871	816584
P	356m N	Unspecified Old Quarry	1953	870905
P	356m N	Unspecified Old Quarry	1938	946359
P	357m N	Unspecified Old Quarry	1948	991130
P	357m N	Unspecified Old Quarry	1898	978644
N	385m NE	Paper Mill	1938	977757
Q	390m SW	Unspecified Works	1971	830103



ID	Location	Land Use	Date	Group ID
R	397m E	Unspecified Heap	1869	974348
S	407m E	Unspecified Heap	1938	911100
S	407m E	Unspecified Heap	1938	911100
S	408m E	Unspecified Heap	1910	983167
S	408m E	Unspecified Heap	1960	908010
S	408m E	Unspecified Heap	1970	950963
S	409m E	Unspecified Heap	1987	950963
S	409m E	Unspecified Heap	1981	950963
S	411m E	Old Coal Shaft	1948	867599
S	411m E	Unspecified Old Shaft	1898	931688
S	413m E	Old Coal Shaft	1938	951225
S	413m E	Unspecified Old Shaft	1960	966997
S	413m E	Unspecified Old Shaft	1970	986341
S	415m E	Old Coal Shaft	1910	882454
S	415m E	Unspecified Heap	1948	897135
S	415m E	Unspecified Heap	1898	941796
S	416m E	Unspecified Disused Shaft	1987	982781
S	416m E	Unspecified Disused Shaft	1981	982781
R	418m E	Old Coal Shaft	1948	943523
R	418m E	Unspecified Old Shaft	1898	927894
R	421m E	Unspecified Old Shaft	1960	954704
R	423m E	Old Coal Shaft	1938	864298
R	423m E	Old Coal Shaft	1910	962976
N	426m NE	Unspecified Mill	1981	955439
T	426m S	Unspecified Heap	1910	965565
R	427m E	Unspecified Heap	1898	923815
N	427m NE	Railway Sidings	1898	849862
T	427m S	Unspecified Heap	1938	940217



ID	Location	Land Use	Date	Group ID
T	427m S	Unspecified Heap	1938	940217
N	427m NE	Unspecified Mill	1913	919608
T	428m S	Unspecified Heap	1948	940217
N	429m NE	Railway Sidings	1969	915578
N	429m NE	Unspecified Mill	1969	864632
N	429m NE	Railway Sidings	1953	915578
N	429m NE	Paper Mill	1953	977757
T	429m S	Unspecified Heap	1960	933546
N	429m NE	Unspecified Mill	1938	919608
R	429m E	Unspecified Heap	1938	913282
R	429m E	Unspecified Heap	1938	913282
N	429m NE	Unspecified Old Mill	1909	809862
V	431m NE	Gasometer	1913	874828
R	431m E	Unspecified Heap	1910	937871
N	432m NE	Railway Sidings	1938	965788
N	432m NE	Railway Sidings	1898	849862
N	433m NE	Railway Sidings	1913	984779
V	433m NE	Gasometer	1909	946750
V	434m NE	Gasometer	1938	901383
N	434m NE	Railway Sidings	1938	906171
V	435m NE	Unspecified Tank	1938	867996
V	435m NE	Unspecified Tank	1898	845028
N	436m NE	Railway Sidings	1909	870683
W	445m E	Sand Pit	1869	797388
Q	447m SW	Sewage Works	1989	811815
X	447m NE	Unspecified Heap	1960	958716
Q	448m SW	Unspecified Tanks	1989	814986
X	448m NE	Unspecified Heap	1938	904274



ID	Location	Land Use	Date	Group ID
X	448m NE	Unspecified Heap	1938	904274
X	448m NE	Unspecified Heap	1910	883085
X	449m NE	Unspecified Heap	1948	957881
W	449m E	Unspecified Old Quarry	1938	850833
W	449m E	Unspecified Old Quarry	1913	937408
W	454m E	Unspecified Old Quarry	1953	850833
N	463m NE	Flour Mill	1869	822620
Q	470m SW	Unspecified Tank	1971	824071
Q	471m SW	Sewage Tank	1948	850232
Q	471m SW	Sewage Filterbed	1898	830965
Q	473m SW	Sewage Tank	1914	891472
Q	473m SW	Sewage Tank	1914	891472
AA	483m NW	Unspecified Depot	1992	890123
AA	483m NW	Unspecified Depot	1981	890123
AB	487m NW	Sand Pits	1948	872607
AB	489m NW	Sand Pits	1909	958100
AB	492m NW	Sand Pits	1938	958100
AB	495m NW	Disused Sand Pits	1959	810759
20	498m NW	Lime Kiln	1871	842723

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

18

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 23**

ID	Location	Land Use	Date	Group ID
C	On site	Unspecified Tank	1912	111818



ID	Location	Land Use	Date	Group ID
D	10m NW	Unspecified Tank	1965	123420
D	10m NW	Unspecified Tank	1965	123420
D	11m NW	Unspecified Tank	1991	147036
6	75m E	Unspecified Tank	1965	111812
8	125m SW	Unspecified Tank	1965	111897
9	133m E	Unspecified Tank	1870	111813
17	255m E	Unspecified Tank	1899	111796
V	432m NE	Gasometer	1899	123125
V	432m NE	Gasometer	1912	123125
V	465m NE	Unspecified Tank	1986	111916
V	467m NE	Tanks	1993	104551
Q	470m SW	Unspecified Tank	1965	135731
V	470m NE	Unspecified Tank	1986	111913
Q	471m SW	Unspecified Tank	1992	135731
Q	474m SW	Sewage Tank	1912	108765
V	490m NE	Tanks	1986	104552
V	496m NE	Tanks	1993	104553

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

18

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 23**

ID	Location	Land Use	Date	Group ID
U	427m NE	Electricity Substation	1978	60823
U	431m NE	Electricity Substation	1988	74299
U	431m NE	Electricity Substation	1991	74299



ID	Location	Land Use	Date	Group ID
V	432m NE	Gasometer	1899	80021
V	432m NE	Gasometer	1912	80021
U	434m NE	Electricity Substation	1994	74299
U	434m NE	Electricity Substation	1996	74299
Y	449m N	Electricity Substation	1974	65722
Y	449m N	Electricity Substation	1989	69546
Y	449m N	Electricity Substation	1988	65722
Y	449m N	Electricity Substation	1988	65722
Y	449m N	Electricity Substation	1990	65722
Y	449m N	Electricity Substation	1995	65722
Y	449m N	Electricity Substation	1997	65722
N	464m NE	Electricity Substation	1986	75652
N	466m NE	Electricity Substation	1993	75652
Z	483m NE	Electricity Substation	1988	66675
Z	485m NE	Electricity Substation	1978	78937

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m

2

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'.

Features are displayed on the Past land use - un-grouped map on **page 23**

ID	Location	Land Use	Date	Group ID
K	204m N	Filling Station	1978	1655
K	205m N	Filling Station	1988	1655

This data is sourced from Ordnance Survey / Groundsure.



2.5 Historical garages

Records within 500m

3

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'.

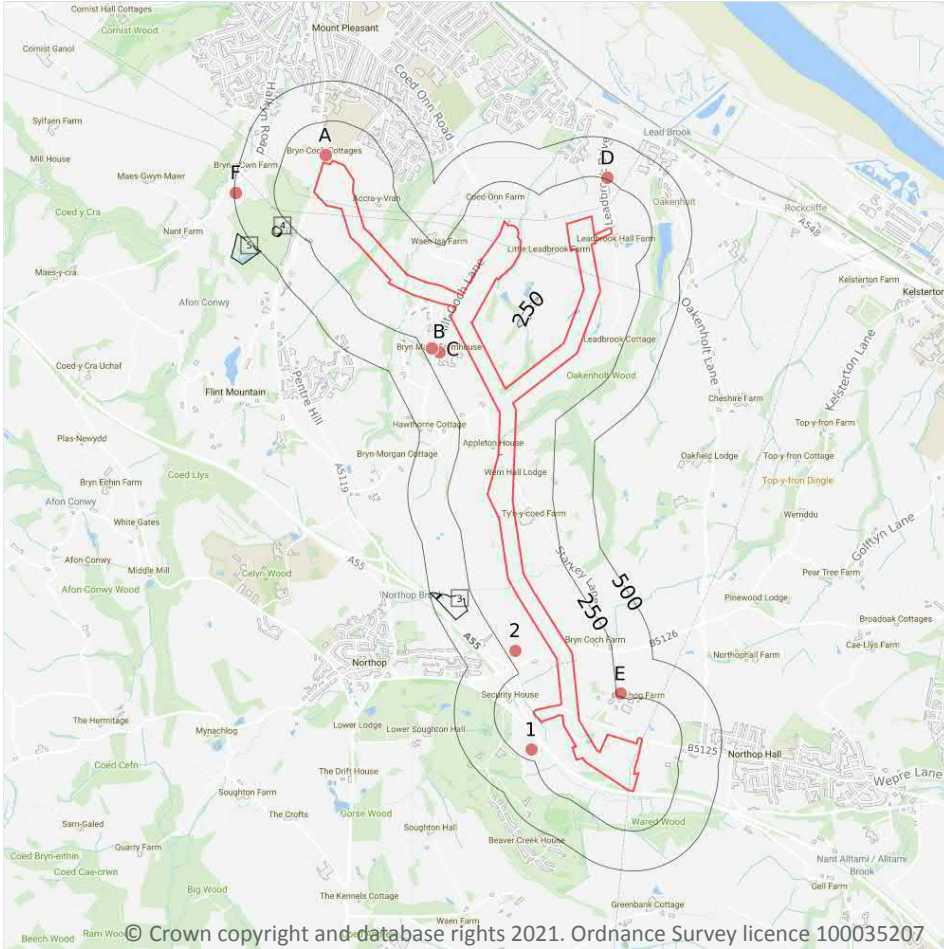
Features are displayed on the Past land use - un-grouped map on **page 23**

ID	Location	Land Use	Date	Group ID
K	205m N	Garage	1991	21122
K	206m N	Garage	1994	25436
K	206m N	Garage	1996	25436

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



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

3

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.

Features are displayed on the Waste and landfill map on **page 35**

ID	Location	Details		
3	302m SW	Site Address: Northop Bypass A55 - Tip No.1 Licence Holder Address: -	Waste Licence: Yes Site Reference: PF/WD2/88 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 03/06/1988 Licence Surrender: 31/07/1989	Operator: - Licence Holder: C A Blackwell (Contractors) Limited First Recorded 31/12/1988 Last Recorded: 31/07/1989
4	310m SW	Site Address: Plas-Y-Mynydd Farm Licence Holder Address: -	Waste Licence: Yes Site Reference: B/W/8/21, CP/EQ/WD/21 Waste Type: Inert, Industrial, Commercial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 24/07/1984 Licence Surrender: 31/03/1990	Operator: - Licence Holder: Tarran First Recorded 24/07/1984 Last Recorded: 31/03/1990
5	496m SW	Site Address: Land off A5119 Near Flint Mountain Licence Holder Address: -	Waste Licence: Yes Site Reference: - Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: Tasselant Limited First Recorded 31/12/1988 Last Recorded: 31/12/1989

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

3.5 Historical waste sites

Records within 500m	0
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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
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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	61
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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 35**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	42m N	United Utilities PLC, Carreg Y Llech Farm, Land at Plas, Flintshire, CH65QQ	NRW-WME032224	Storing waste exemption	Not on a farm	Storage of sludge
A	42m N	United Utilities PLC, Carreg Y Llech Farm, Land and Plas, Flintshire, CH65QQ	NRW-WME032226	Storing waste exemption	Not on a farm	Storage of sludge
A	42m N	United Utilities PLC, Carreg y Llech Farm, Land at Plas, Flintshire, CH65QQ	NRW-WME032227	Storing waste exemption	Not on a farm	Storage of sludge
A	42m N	United Utilities PLC, Carreg y Llech Farm, Land at Plas, Flintshire, CH65QQ	NRW-WME032228	Storing waste exemption	Not on a farm	Storage of sludge
B	166m SW	BRYN MAWR FARM, ALLT GOCH LANE, NORTHOP, MOLD, CH7 6DL	WEX071662	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
B	166m SW	BRYN MAWR FARM, ALLT GOCH LANE, NORTHOP, MOLD, CH7 6DL	WEX071662	Disposing of waste exemption	On a farm	Burning waste in the open



ID	Location	Site	Reference	Category	Sub-Category	Description
B	166m SW	BRYN MAWR FARM, ALLT GOCH LANE, NORTHOP, MOLD, CH7 6DL	WEX071662	Storing waste exemption	On a farm	Storage of waste in secure containers
B	166m SW	BRYN MAWR FARM, ALLT GOCH LANE, NORTHOP, MOLD, CH7 6DL	WEX071662	Storing waste exemption	On a farm	Storage of waste in a secure place
B	166m SW	BRYN MAWR FARM, ALLT GOCH LANE, NORTHOP, MOLD, CH7 6DL	WEX071662	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
B	166m SW	BRYN MAWR FARM, ALLT GOCH LANE, NORTHOP, MOLD, CH7 6DL	WEX071662	Treating waste exemption	On a farm	Recovery of scrap metal
B	166m SW	BRYN MAWR FARM, ALLT GOCH LANE, NORTHOP, MOLD, CH7 6DL	WEX071662	Using waste exemption	On a farm	Use of waste in construction
B	166m SW	BRYN MAWR FARM, ALLT GOCH LANE, NORTHOP, MOLD, CH7 6DL	WEX071662	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
1	189m S	United Utilities PLC, Lingley Green Avenue, Lingley Mere Business Park, Great Sankey, Warrington, WA5 3LP	NRW-WME053222	Storing waste exemption	Not on a farm	Storage of sludge
C	196m SW	United Utilities PLC, Bryn Mawr Farm, Allt Goch Lane, Northop, Mold, Flintshire, CH76DL	NRW-WME032184	Storing waste exemption	Not on a farm	Storage of sludge
C	196m SW	DCWW, Bryn Mawr Farm, Allt Goch Lane, Northop, Mold, Flintshire, CH76DL	NRW-WME032775	Storing waste exemption	Not on a farm	Storage of sludge
C	196m SW	DCWW, Bryn Mawr Farm, Allt Goch Lane, Northop, Mold, Flintshire, CH76DL	NRW-WME032776	Storing waste exemption	Not on a farm	Storage of sludge
C	196m SW	DCWW, Bryn Mawr Farm, Allt Goch Lane, Northop, Mold, Flintshire, CH76DL	NRW-WME033990	Storing waste exemption	Not on a farm	Storage of sludge
C	196m SW	DCWW, Bryn Mawr Farm, Allt Goch Lane, Northop, Mold, Flintshire, CH76DL	NRW-WME034337	Storing waste exemption	Not on a farm	Storage of sludge



ID	Location	Site	Reference	Category	Sub-Category	Description
C	196m SW	DCWW, Bryn Mawr Farm, Allt Goch Lane, Northop, Mold, Flintshire, CH76DL	NRW-WME034338	Storing waste exemption	Not on a farm	Storage of sludge
C	196m SW	DCWW, Bryn Mawr Farm, Allt Goch Lane, Northop, Mold, Flintshire, CH76DL	NRW-WME034339	Storing waste exemption	Not on a farm	Storage of sludge
C	197m SW	United Utilities PLC, Bryn Mawr Farm, Allt Goch Lane, Llaneurgain, Yr Wyddgrug, CH76DL	NRW-WME005071	Storing waste exemption	On a farm	Storage of sludge
C	197m SW	United Utilities Water PLC, Bryn Mawr Farm, Starkey Lane, Northop, Mold, Flintshire, CH76DL	NRW-WME026938	Storing waste exemption	Not on a farm	Storage of sludge
C	197m SW	United Utilities Water PLC, Bryn Mawr Farm, Allt Goch Lane, Northop, Mold, Flintshire, CH76DL	NRW-WME026939	Storing waste exemption	Not on a farm	Storage of sludge
C	197m SW	United Utilities Water PLC, Bryn Mawr Farm, Allt Goch Lane, Northop, Mold, Flintshire, CH76DL	NRW-WME026940	Storing waste exemption	Not on a farm	Storage of sludge
2	199m SW	United Utilities, Bryn Mawr Farm, Allt Goch Lane, Northop, Mold, Flintshire, CH7 6DL	NRW-WME055152	Storing waste exemption	Not on a farm	Storage of sludge
D	257m NE	Leadbrook Hall Farm Leadbrook Drive Flint Flintshire CH65ST	NRW-WME026035	Using waste exemption	Waste Exemption - Agricultural and Non-Agricultural	Spreading waste on agricultural land to confer benefit
D	257m NE	Leadbrook Hall Farm Leadbrook Drive Flint Flintshire CH65ST	NRW-WME026035	Using waste exemption	Waste Exemption - Agricultural and Non-Agricultural	Use of waste for a specified purpose
D	257m NE	Leadbrook Hall Farm Leadbrook Drive Flint Flintshire CH65ST	NRW-WME026035	Using waste exemption	Waste Exemption - Agricultural and Non-Agricultural	Spreading of plant matter to confer benefit
D	257m NE	Leadbrook Hall Farm Leadbrook Drive Flint Flintshire CH65ST	NRW-WME026035	Using waste exemption	Waste Exemption - Agricultural and Non-Agricultural	Incorporation of ash into soil



ID	Location	Site	Reference	Category	Sub-Category	Description
D	257m NE	Leadbrook Hall Farm Leadbrook Drive Flint Flintshire CH65ST	NRW- WME026035	Using waste exemption	Waste Exemption - Agricultural and Non-Agricultural	Burning of waste as a fuel in a small appliance
D	257m NE	Leadbrook Hall Farm Leadbrook Drive Flint Flintshire CH65ST	NRW- WME026035	Using waste exemption	Waste Exemption - Agricultural and Non-Agricultural	Use of waste derived biodiesel as fuel
D	257m NE	Leadbrook Hall Farm Leadbrook Drive Flint Flintshire CH65ST	NRW- WME026035	Using waste exemption	Waste Exemption - Agricultural and Non-Agricultural	Use of mulch
D	257m NE	Leadbrook Hall Farm Leadbrook Drive Flint Flintshire CH65ST	NRW- WME026035	Using waste exemption	Waste Exemption - Agricultural and Non-Agricultural	Use of waste in construction
D	257m NE	Leadbrook Hall Farm Leadbrook Drive Flint Flintshire CH65ST	NRW- WME026035	Treating waste exemption	Waste Exemption - Agricultural and Non-Agricultural	Mechanical treatment of end-of-life tyres
D	257m NE	Leadbrook Hall Farm Leadbrook Drive Flint Flintshire CH65ST	NRW- WME026035	Treating waste exemption	Waste Exemption - Agricultural and Non-Agricultural	Preparatory treatments (baling, sorting, shredding etc)
D	257m NE	Leadbrook Hall Farm Leadbrook Drive Flint Flintshire CH65ST	NRW- WME026035	Treating waste exemption	Waste Exemption - Agricultural and Non-Agricultural	Aerobic composting and associated prior treatment
D	257m NE	Leadbrook Hall Farm Leadbrook Drive Flint Flintshire CH65ST	NRW- WME026035	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
D	257m NE	Leadbrook Hall Farm Leadbrook Drive Flint Flintshire CH65ST	NRW- WME026035	Disposing of waste exemption	On a farm	Disposal by incineration
D	257m NE	Leadbrook Hall Farm Leadbrook Drive Flint Flintshire CH65ST	NRW- WME026035	Treating waste exemption	On a farm	Treatment of sheep dip for disposal
D	257m NE	Leadbrook Hall Farm Leadbrook Drive Flint Flintshire CH65ST	NRW- WME026035	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters



ID	Location	Site	Reference	Category	Sub-Category	Description
D	257m NE	Leadbrook Hall Farm Leadbrook Drive Flint Flintshire CH65ST	NRW- WME026035	Storing waste exemption	Waste Exemption - Agricultural and Non-Agricultural	Storage of waste in secure containers
D	257m NE	Leadbrook Hall Farm Leadbrook Drive Flint Flintshire CH65ST	NRW- WME026035	Treating waste exemption	Waste Exemption - Agricultural and Non-Agricultural	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
D	257m NE	Leadbrook Hall Farm Leadbrook Drive Flint Flintshire CH65ST	NRW- WME026035	Storing waste exemption	Waste Exemption - Agricultural and Non-Agricultural	Storage of waste in a secure place
D	257m NE	Leadbrook Hall Farm Leadbrook Drive Flint Flintshire CH65ST	NRW- WME026035	Using waste exemption	Waste Exemption - Agricultural and Non-Agricultural	Use of waste to manufacture finished goods
D	257m NE	Leadbrook Hall Farm Leadbrook Drive Flint Flintshire CH65ST	NRW- WME026035	Treating waste exemption	Waste Exemption - Agricultural and Non-Agricultural	Screening and blending of waste
D	257m NE	Leadbrook Hall Farm Leadbrook Drive Flint Flintshire CH65ST	NRW- WME026035	Treating waste exemption	On a farm	Cleaning, washing, spraying or coating relevant waste
D	257m NE	Leadbrook Hall Farm Leadbrook Drive Flint Flintshire CH65ST	NRW- WME026035	Disposing of waste exemption	On a farm	Burning waste in the open
D	257m NE	Leadbrook Hall Farm Leadbrook Drive Flint Flintshire CH65ST	NRW- WME026035	Storing waste exemption	Not on a farm	Storage of sludge
E	263m N	Galchog Farm, Chester Road, Mold, Flintshire, CH7 6AZ	NRW- WME001189	Using waste exemption	Waste Exemption - Agricultural	Use of waste in construction
E	263m N	Galchog Farm, Chester Road, Mold, Flintshire, CH7 6AZ	NRW- WME001189	Using waste exemption	Waste Exemption - Agricultural	Burning of waste as a fuel in a small appliance
E	263m N	Galchog Farm, Chester Road, Mold, Flintshire, CH7 6AZ	NRW- WME001189	Using waste exemption	Waste Exemption - Agricultural	Incorporation of ash into soil
E	263m N	Galchog Farm, Chester Road, Mold, Flintshire, CH7 6AZ	NRW- WME001189	Treating waste exemption	Waste Exemption - Agricultural	Preparatory treatments (baling, sorting, shredding etc)

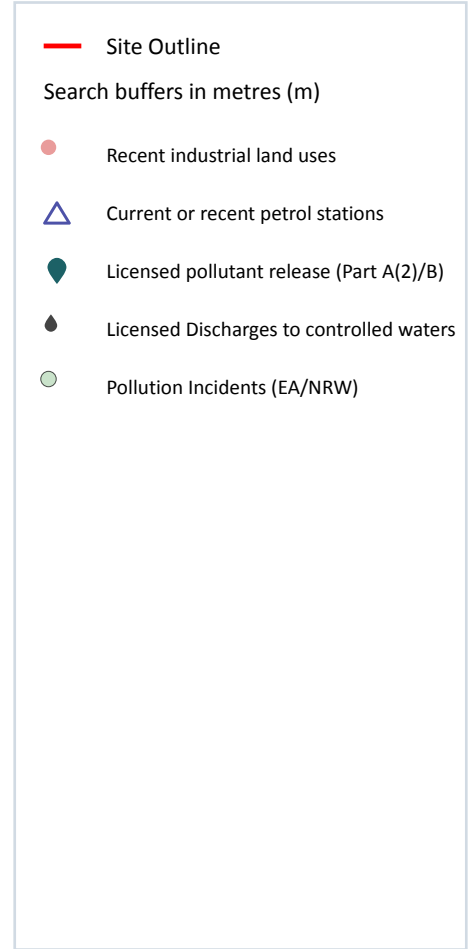
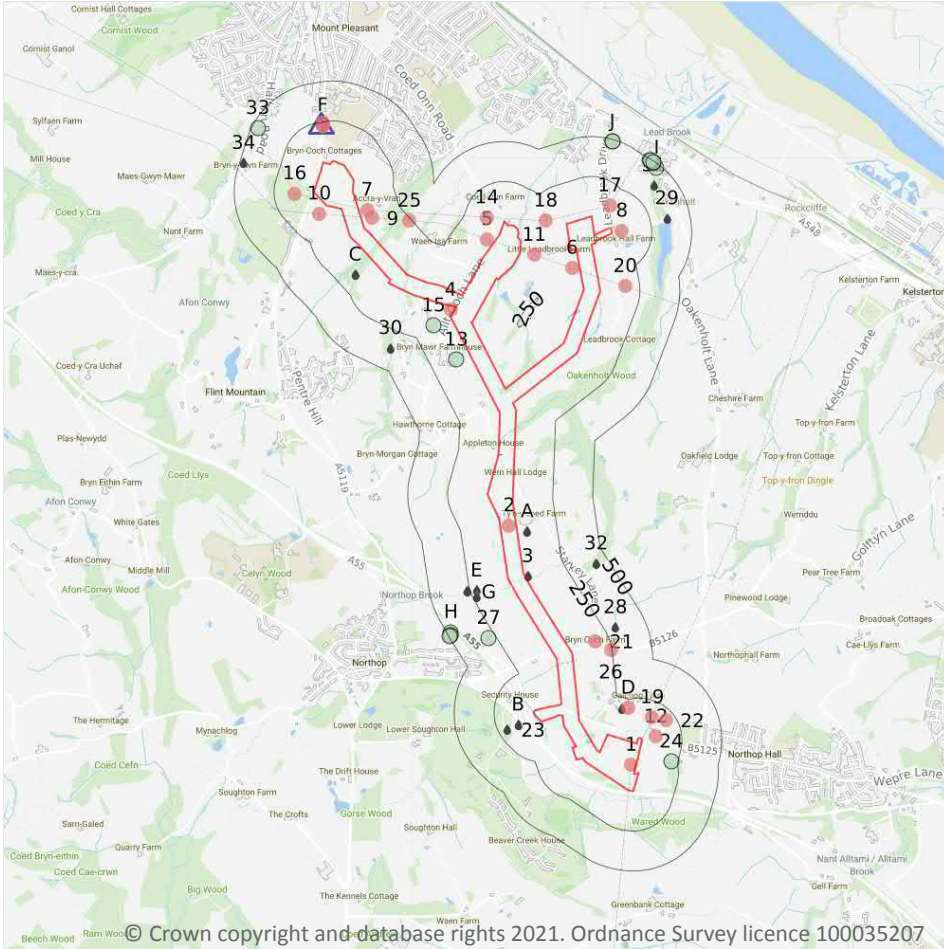


ID	Location	Site	Reference	Category	Sub-Category	Description
E	263m N	Galchog Farm, Chester Road, Mold, Flintshire, CH7 6AZ	NRW-WME001189	Treating waste exemption	Waste Exemption - Agricultural	Screening and blending of waste
E	263m N	Galchog Farm, Chester Road, Mold, Flintshire, CH7 6AZ	NRW-WME001189	Treating waste exemption	Waste Exemption - Agricultural	Recovery of scrap metal
E	263m N	Galchog Farm, Chester Road, Mold, Flintshire, CH7 6AZ	NRW-WME001189	Disposing of waste exemption	Waste Exemption - Agricultural	Deposit of waste from dredging of inland waters
E	263m N	Galchog Farm, Chester Road, Mold, Flintshire, CH7 6AZ	NRW-WME001189	Disposing of waste exemption	Waste Exemption - Agricultural	Disposal by incineration
E	263m N	Galchog Farm, Chester Road, Mold, Flintshire, CH7 6AZ	NRW-WME001189	Disposing of waste exemption	Waste Exemption - Agricultural	Burning waste in the open
E	263m N	Galchog Farm, Chester Road, Mold, Flintshire, CH7 6AZ	NRW-WME001189	Storing waste exemption	Waste Exemption - Agricultural	Storage of waste in secure containers
E	263m N	Galchog Farm, Chester Road, Mold, Flintshire, CH7 6AZ	NRW-WME001189	Storing waste exemption	Waste Exemption - Agricultural	Storage of waste in a secure place
F	492m W	-	WEX232160	Storing waste exemption	On a farm	Storage of sludge
F	492m W	-	WEX167686	Storing waste exemption	On a farm	Storage of sludge

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



4 Current industrial land use



4.1 Recent industrial land uses

Records within 250m

25

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 43**

ID	Location	Company	Address	Activity	Category
1	On site	Pylon	Clwyd, CH7	Electrical Features	Infrastructure and Facilities
2	On site	Wind Turbine	Clwyd, CH7	Energy Production	Industrial Features
4	20m NW	Tank	Clwyd, CH7	Tanks (Generic)	Industrial Features



ID	Location	Company	Address	Activity	Category
5	47m NW	Pylon	Clwyd, CH6	Electrical Features	Infrastructure and Facilities
6	48m W	Pylon	Clwyd, CH6	Electrical Features	Infrastructure and Facilities
7	50m E	Pylon	Clwyd, CH6	Electrical Features	Infrastructure and Facilities
8	64m E	Slurry Bed	Clwyd, CH6	Waste Storage, Processing and Disposal	Infrastructure and Facilities
9	67m E	Pylon	Clwyd, CH6	Electrical Features	Infrastructure and Facilities
10	69m SW	Pylon	Clwyd, CH6	Electrical Features	Infrastructure and Facilities
11	89m E	Pylon	Clwyd, CH6	Electrical Features	Infrastructure and Facilities
12	90m E	Mast (Telecommunication)	Clwyd, CH7	Telecommunications Features	Infrastructure and Facilities
14	112m W	Pylon	Clwyd, CH6	Electrical Features	Infrastructure and Facilities
16	122m W	Pylon	Clwyd, CH6	Electrical Features	Infrastructure and Facilities
17	133m NE	Pylon	Clwyd, CH6	Electrical Features	Infrastructure and Facilities
18	133m W	Pylon	Clwyd, CH6	Electrical Features	Infrastructure and Facilities
19	150m NE	Pylon	Clwyd, CH7	Electrical Features	Infrastructure and Facilities
20	159m E	Pylon	Clwyd, CH6	Electrical Features	Infrastructure and Facilities
21	164m NE	Arrow Van Hire	Bryn Coch Farm, Connah's Quay Road, Northop, Mold, Clwyd, CH7 6BT	Vehicle Hire and Rental	Hire Services
22	192m NE	Shaft (Disused)	Clwyd, CH7	Unspecified Quarries Or Mines	Extractive Industries
D	198m N	P G Smith Farrier	Highfield Livery Yard, Chester Road, Northop, Mold, Clwyd, CH7 6AZ	Metalworkers Including Blacksmiths	Construction Services



ID	Location	Company	Address	Activity	Category
F	231m N	Flint Filling Station	Northop Road, Flint, Clwyd, CH6 5QG	Vehicle Cleaning Services	Personal, Consumer and Other Services
F	231m N	Gulf	Northop Road, Flint Mountain, Flint, Clwyd, CH6 5QG	Petrol and Fuel Stations	Road and Rail
25	237m NE	Pylon	Clwyd, CH7	Electrical Features	Infrastructure and Facilities
26	242m E	Brooks Haulage Ltd	Pontenion Farm, Connah's Quay Road, Northop, Mold, Clwyd, CH7 6BT	Distribution and Haulage	Transport, Storage and Delivery
F	245m N	Flint Service Station	Northop Road, Flint Mountain, Flint, Clwyd, CH6 5QG	Secondhand Vehicles	Motoring

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	1
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Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on **page 43**

ID	Location	Company	Address	LPG	Status
F	247m N	GULF	Northop Road, Flint, Flintshire, CH6 5QG	No	Open

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	0
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High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	0
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High pressure underground gas transmission pipelines.

This data is sourced from National Grid.



4.5 Sites determined as Contaminated Land

Records within 500m	0
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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
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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
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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
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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	0
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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.

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



4.10 Licensed industrial activities (Part A(1))

Records within 500m

0

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

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

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

Records within 500m

1

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.

Features are displayed on the Current industrial land use map on **page 43**

ID	Location	Address	Details	
F	230m N	Flint Filling Station, Northop Road, Flint Mountain, Flint, Flintshire, CH6 5QG	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

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

22

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 43**



ID	Location	Address	Details	
3	14m NE	BRITISH COAL OPENCAST SITE NORTHOP, BRITISH COAL OPENCAST SITE NORTH, NORTHOP CLWYD, CLWYD	Effluent Type: UNSPECIFIED Permit Number: CM0177703 Permit Version: 1 Receiving Water: TOP-Y-FRON DINGLE	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 07/12/1988 Effective Date: 07/12/1988 Revocation Date: 11/07/1991
A	62m E	SEPTIC & INFILT. @ TYN-Y-COED, TYN-Y-COED, NORTHOP, MOLD, FLINTSHIRE, CH7 6DG	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: EPRSP3029GB Permit Version: 1 Receiving Water: INFILTRATION FIELD	Status: NEW ISSUED UNDER EPR 2010 Issue date: 12/04/2012 Effective Date: 12/04/2012 Revocation Date: -
A	62m E	SEPTIC & INFILT. @ TYN-Y-COED, TYN-Y-COED, NORTHOP, MOLD, FLINTSHIRE, CH7 6DG	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: EPRSP3029GB Permit Version: 1 Receiving Water: INFILTRATION FIELD	Status: NEW ISSUED UNDER EPR 2010 Issue date: 12/04/2012 Effective Date: 12/04/2012 Revocation Date: -
A	62m E	SEPTIC & INFILT. @ TYN-Y-COED, TYN-Y-COED, Northop, MOLD, Flintshire, CH7 6DG	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: SP3029GB Permit Version: 1 Receiving Water: groundwater via infiltration system	Status: Effective Issue date: 12/04/2012 Effective Date: 12/04/2012 Revocation Date: -
B	122m SW	NORTHOP COUNTRY PARK DEVELOPMENT, RHOS-Y-CHELLIS, NORTHOP, FLINTSHIRE, CH7 6WA	Effluent Type: UNSPECIFIED Permit Number: CG0344701 Permit Version: 1 Receiving Water: TO LAND	Status: REVOKED - UNSPECIFIED Issue date: 23/11/1993 Effective Date: 23/11/1993 Revocation Date: 15/03/1994
B	122m SW	NORTHOP COUNTRY PARK DEVELOPMENT, RHOS-Y-CHELLIS, NORTHOP, FLINTSHIRE, CH7 6WA	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CG0344701 Permit Version: 2 Receiving Water: TO LAND	Status: LAPSED UNDER SCHEDULE 23 ENVIRONMENT ACT 1995 Issue date: 16/03/1994 Effective Date: 16/03/1994 Revocation Date: 31/10/1996
C	141m SW	THE HEDGEROWS Y WAEN FLINT MOUNTAIN, THE HEDGEROWS, Y WAEN, FLINT MOUNTAIN, CH6 5QR	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - NOT WATER COMPANY Permit Number: CG0378901 Permit Version: 2 Receiving Water: PENTRE FFWRNDAN VIA SWS	Status: Effective Issue date: 12/02/2019 Effective Date: 28/02/2019 Revocation Date: -



ID	Location	Address	Details	
C	141m SW	THE HEDGEROWS Y WAEN FLINT MOUNTAIN, THE HEDGEROWS, Y WAEN, FLINT MOUNTAIN	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - NOT WATER COMPANY Permit Number: CG0378901 Permit Version: 1 Receiving Water: PENTRE FFWRNDAN VIA SWS	Status: Effective Issue date: 11/12/1998 Effective Date: 11/12/1998 Revocation Date: -
D	180m N	NORTHOP HALL HIGHFIELD LIVERY	Effluent Type: UNSPECIFIED Permit Number: CM0148701 Permit Version: 1 Receiving Water: TO LAND	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 20/08/1986 Effective Date: 20/08/1986 Revocation Date: 18/09/1992
23	198m SW	NORTHOP COUNTRY PARK NORTHOP FLINT, NORTHOP COUNTRY PARK NORTHOP FL, NORTHOP FLINT, FLINT	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - NOT WATER COMPANY Permit Number: CG0363301 Permit Version: 1 Receiving Water: Unnamed Watercourse	Status: Effective Issue date: 21/08/1995 Effective Date: 21/08/1995 Revocation Date: -
E	212m W	NORTHOP STW	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: CM0038001 Permit Version: 1 Receiving Water: NORTHOP BROOK	Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 26/05/1981 Effective Date: 26/05/1981 Revocation Date: 30/12/2005
E	228m SW	BRITISH COAL OPENCAST SITE PONT EIN, BRITISH COAL OPENCAST SITE PONT, PONT EINION NORTHOP, NORTHOP	Effluent Type: UNSPECIFIED Permit Number: CM0177701 Permit Version: 1 Receiving Water: LAND	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 07/12/1988 Effective Date: 07/12/1988 Revocation Date: 23/12/1992
G	268m W	NORTHOP WASTEWATER TREATMENT WORKS, ABER CRESCENT, Northop, Flintshire, CH7 6BS	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: CM0038001 Permit Version: 3 Receiving Water: Northop Brook	Status: Effective Issue date: 26/06/2009 Effective Date: 01/01/2010 Revocation Date: -
G	268m W	NORTHOP WASTEWATER TREATMENT WORKS, ABER CRESCENT, NORTHOP, FLINTSHIRE, CH7 6BS	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: CG0429901 Permit Version: 1 Receiving Water: NORTHOP BROOK	Status: Effective Issue date: 14/01/2005 Effective Date: 31/12/2005 Revocation Date: -



ID	Location	Address	Details	
G	268m W	NORTHOP WWTW TRANSFER PUMPING STN, ABER CRESCENT, NORTHOP, Flintshire	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: CG0433701 Permit Version: 1 Receiving Water: Northop Brook	Status: Effective Issue date: 27/05/2005 Effective Date: 31/12/2005 Revocation Date: -
28	315m NE	BROOKS HAULAGE SITE, PONT EINION FARM, CONNAHS QUAY ROAD, NORTHOP, Flintshire, CH7 6BT	Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: CG0432101 Permit Version: 2 Receiving Water: TRIB OF KELSTERTON BROOK	Status: Effective Issue date: 02/03/2006 Effective Date: 02/03/2006 Revocation Date: -
29	355m E	Oakenholt Mill, Chester Rd, Flint, CH6 5PU	Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: BB3696ZC Permit Version: 1 Receiving Water: Lead Brook	Status: Effective Issue date: 27/05/2020 Effective Date: 27/05/2020 Revocation Date: -
30	363m SW	BRYN Y GOG LON Y GOG NORTHOP, BRYN Y GOG, LON Y GOG, NORTHOP, FLINTSHIRE, CH7 6DN	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CG0393501 Permit Version: 1 Receiving Water: TRIB OF PANDY BROOK	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY Issue date: 01/08/2001 Effective Date: 01/08/2001 Revocation Date: -
31	380m NE	LEADBROOK HALL SITE ADJ TO LEADBROO, LEADBROOK HALL SITE ADJ TO LEADB, ADJ TO LEADBROOK HALL OAKENHOLT, OAKENHOLT FLINT , FLINT	Effluent Type: UNSPECIFIED Permit Number: CG0366601 Permit Version: 1 Receiving Water: LEAD BROOK	Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV Issue date: 07/03/1996 Effective Date: 07/03/1996 Revocation Date: 13/10/1998
32	425m NE	BRITISH COAL OPENCAST SITE NORTHO, BRITISH COAL OPENCAST SITE NOR, NORTHOP	Effluent Type: UNSPECIFIED Permit Number: CM0177704 Permit Version: 1 Receiving Water: TOP-Y-FRON DINGLE	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 07/12/1988 Effective Date: 07/12/1988 Revocation Date: 11/07/1991
H	475m SW	Northop Wastewater Treatment Works Settled Storm, Off N Wales Expy, Northop, Mold, CH7 6HN	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: CG0429901 Permit Version: 2 Receiving Water: Northop Brook	Status: Effective Issue date: 22/06/2020 Effective Date: 22/06/2020 Revocation Date: -
34	476m W	DEVELOPMENT SOUTH OLD LONDO	Effluent Type: UNSPECIFIED Permit Number: CM0067401 Permit Version: 1 Receiving Water: SWINCHIARD BROOK	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 15/10/1971 Effective Date: 15/10/1971 Revocation Date: 26/02/1993



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

4.14 Pollutant release to surface waters (Red List)

Records within 500m	0
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Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

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

4.15 Pollutant release to public sewer

Records within 500m	0
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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	0
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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.

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

4.17 List 2 Dangerous Substances

Records within 500m	0
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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.

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m	18
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Records of substantiated pollution incidents. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

Features are displayed on the Current industrial land use map on **page 43**

ID	Location	Details	
13	91m SW	Incident Date: 27/05/2015 Incident Identification: 1340409 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
15	118m SW	Incident Date: 17/08/2003 Incident Identification: 182862 Pollutant: Oils and Fuel Pollutant Description: Gas and Fuel Oils	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
24	209m E	Incident Date: 11/11/2014 Incident Identification: 1293682 Pollutant: Specific Waste Materials Pollutant Description: Other Specific Waste Material	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
27	293m SW	Incident Date: 27/12/2002 Incident Identification: 127798 Pollutant: Sewage Materials Pollutant Description: Other Sewage Material	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
33	464m NW	Incident Date: 13/02/2003 Incident Identification: 136752 Pollutant: Inert Materials and Wastes Pollutant Description: Soils and Clay	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
I	476m NE	Incident Date: 20/05/2013 Incident Identification: 1114226 Pollutant: Other Pollutant Pollutant Description: Noise	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
H	478m SW	Incident Date: 09/07/2014 Incident Identification: 1254348 Pollutant: Sewage Materials Pollutant Description: Grey Water	Water Impact: - Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
I	484m NE	Incident Date: 23/07/2003 Incident Identification: 175994 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
H	485m SW	Incident Date: 05/11/2016 Incident Identification: 1606801 Pollutant: - Pollutant Description: -	Water Impact: Category 3 (Minor) Land Impact: No Details Air Impact: No Details
H	485m SW	Incident Date: 05/11/2016 Incident Identification: 1606801 Pollutant: Sewage Material Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: No Details Air Impact: No Details



ID	Location	Details	
J	485m N	Incident Date: 04/06/2016 Incident Identification: 1602952 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: No Details Land Impact: No Details Air Impact: Category 3 (Minor)
J	485m N	Incident Date: 04/06/2016 Incident Identification: 1602952 Pollutant: - Pollutant Description: -	Water Impact: No Details Land Impact: No Details Air Impact: Category 3 (Minor)
I	490m NE	Incident Date: 06/08/2003 Incident Identification: 179708 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
I	491m NE	Incident Date: 05/08/2003 Incident Identification: 179402 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
I	492m NE	Incident Date: 06/08/2003 Incident Identification: 179697 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
I	493m NE	Incident Date: 28/07/2003 Incident Identification: 177321 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
I	494m NE	Incident Date: 05/08/2003 Incident Identification: 179410 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
H	496m SW	Incident Date: 14/06/2013 Incident Identification: 1122355 Pollutant: Sewage Materials Pollutant Description: Storm Sewage	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

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

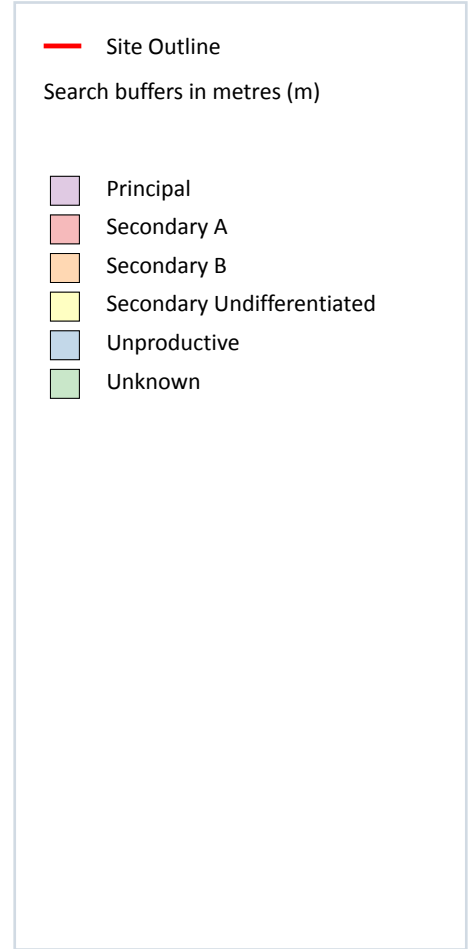
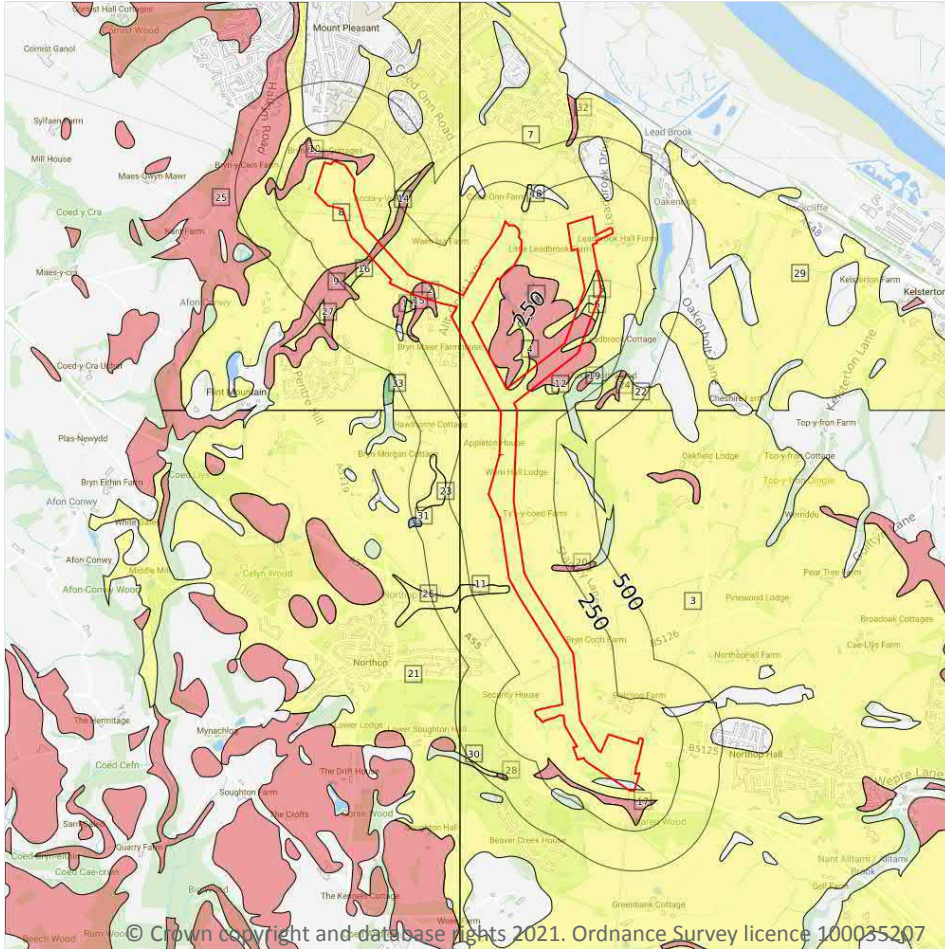
Records within 500m

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



5.1 Superficial aquifer

Records within 500m

33

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 55**

ID	Location	Designation	Description
1	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
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

ID	Location	Designation	Description
3	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
4	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
5	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
6	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
7	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
8	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
9	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
10	6m N	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
11	25m SW	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
12	31m SE	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
13	34m SW	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
14	40m NE	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
15	42m SW	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type



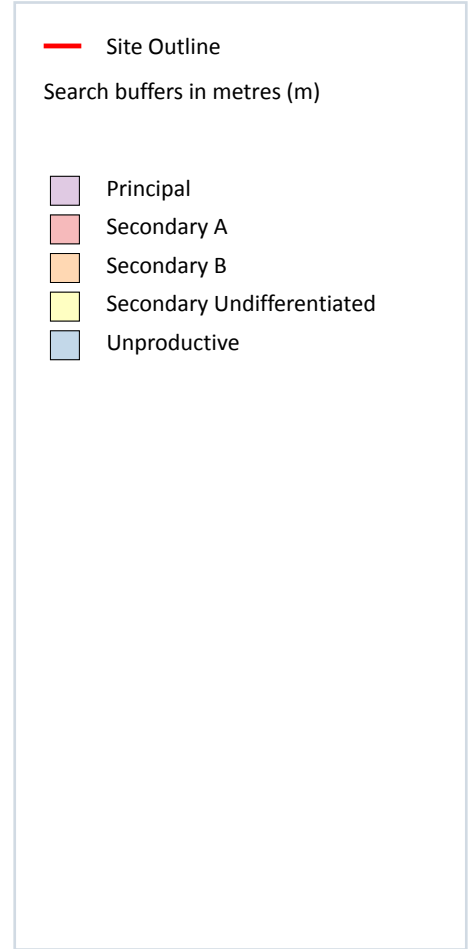
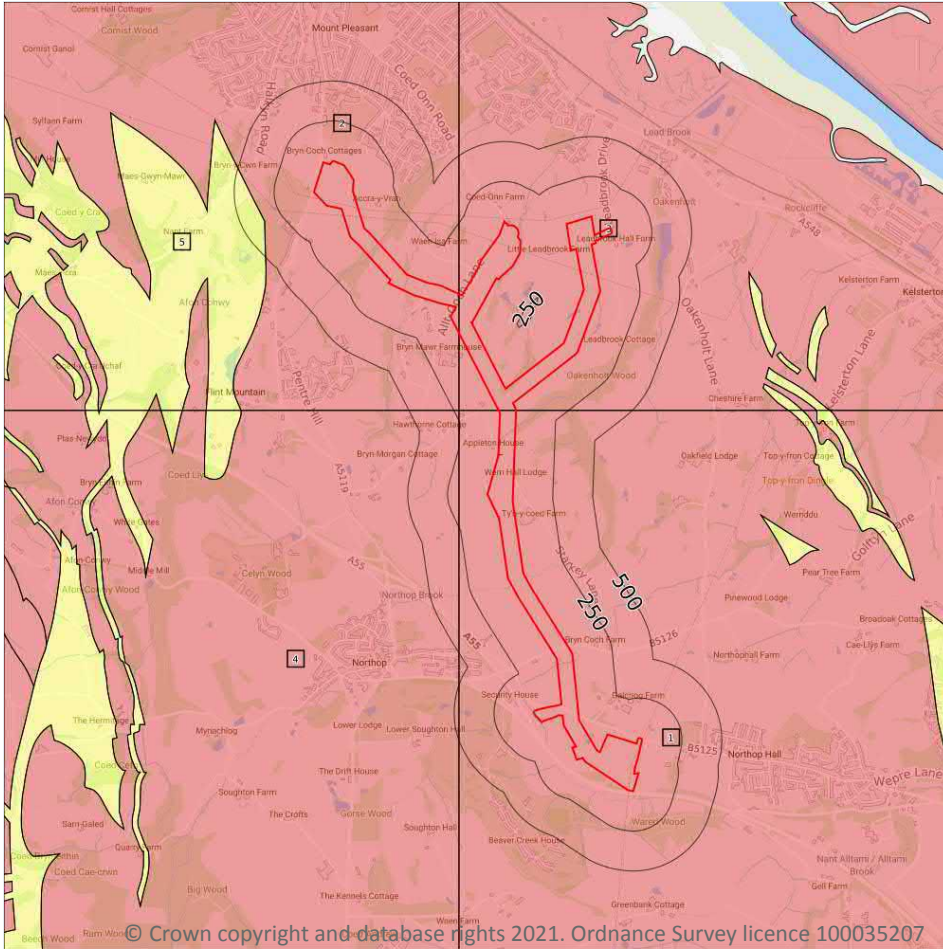
ID	Location	Designation	Description
16	44m SW	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
17	55m S	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
18	106m NE	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
19	148m SE	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
20	165m NE	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
21	179m W	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
22	232m SE	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
23	273m W	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
24	295m SE	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
25	295m W	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
26	311m W	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
27	397m SW	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
28	407m SW	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



ID	Location	Designation	Description
29	416m E	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
30	426m SW	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
31	455m SW	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
32	466m N	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
33	489m SW	Unknown	Unknown

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

Bedrock aquifer



5.2 Bedrock aquifer

Records within 500m

5

Aquifer status of groundwater held within bedrock geology.

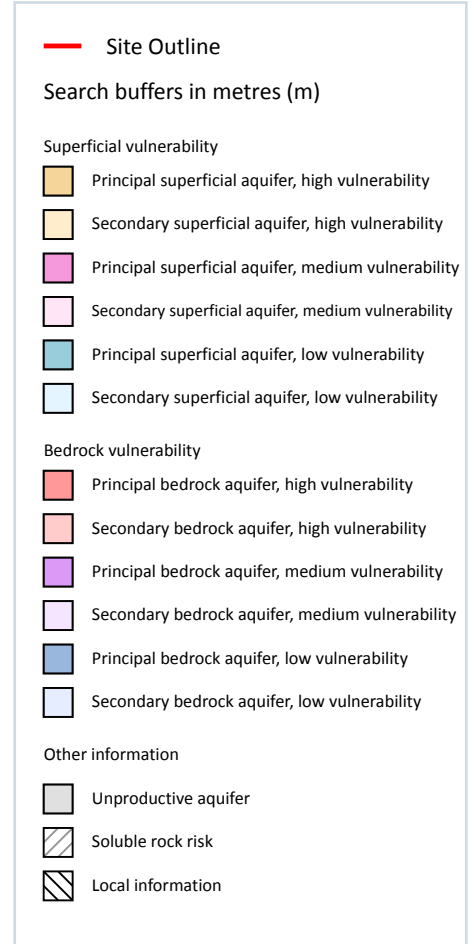
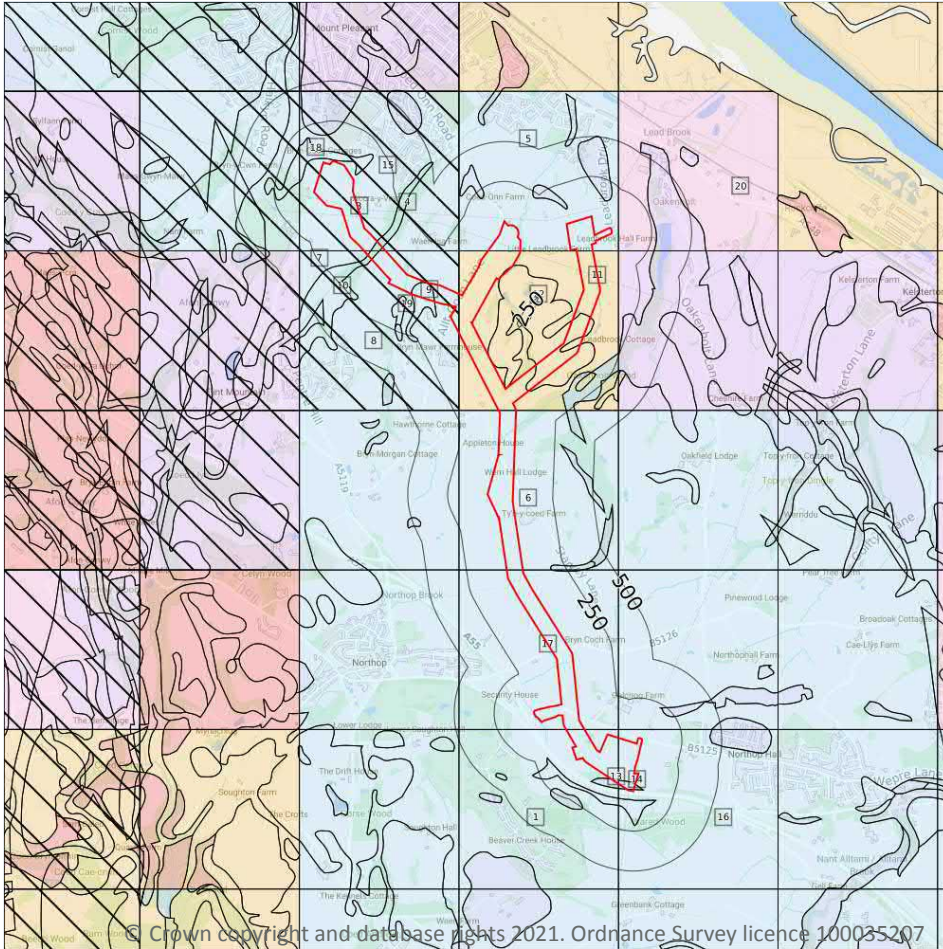
Features are displayed on the Bedrock aquifer map on [page 59](#)

ID	Location	Designation	Description
1	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
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

ID	Location	Designation	Description
3	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
4	179m W	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
5	358m SW	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

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

18

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 61**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
3	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: <90% Recharge potential: Medium	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
4	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: <90% Recharge potential: Medium	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
5	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
6	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
7	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
8	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
9	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
10	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
11	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
12	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
13	On site	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
14	On site	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
16	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
17	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
18	5m N	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: <90% Recharge potential: Medium	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
19	33m SW	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
20	41m E	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium 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

0

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

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

5.5 Groundwater vulnerability- local information

Records on site

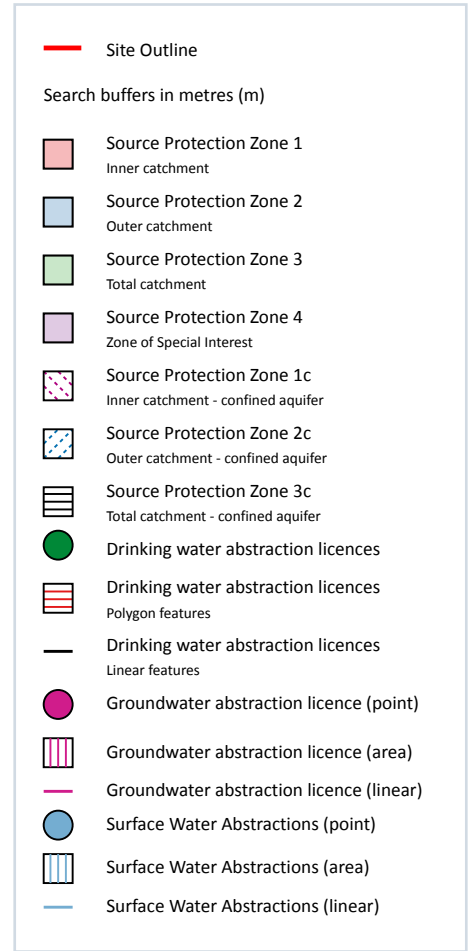
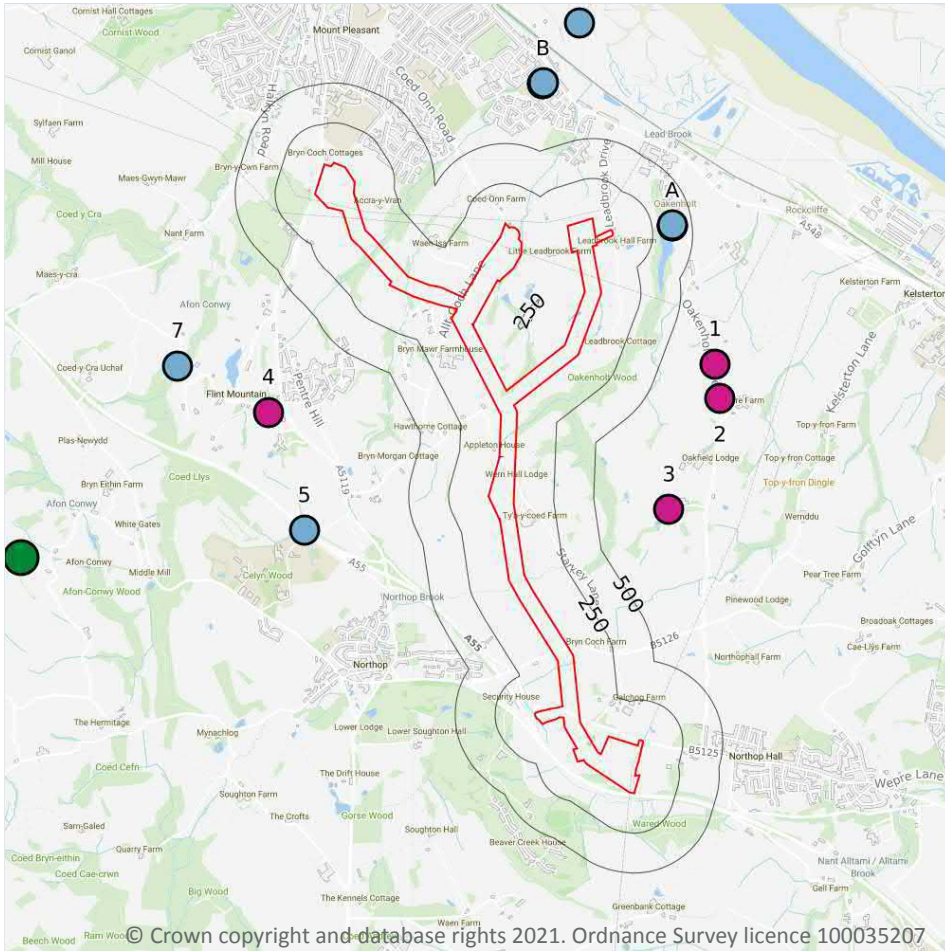
2

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.

ID	Summary	Additional information
2	Rapid flow pathways	Halkyn (High Level) Drainage Tunnel
15	Rapid flow pathways	Halkyn (High Level) Drainage Tunnel

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

Abstractions and Source Protection Zones



5.6 Groundwater abstractions

Records within 2000m

4

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.

Features are displayed on the Abstractions and Source Protection Zones map on **page 66**

ID	Location	Details	
1	825m E	Status: Historical Licence No: 24/67/10/0030 Details: General Farming & Domestic Direct Source: EAW Groundwater Point: WELL A Data Type: Point Name: Dodd Easting: 326600 Northing: 370301	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 25/10/1966 Expiry Date: - Issue No: 101 Version Start Date: 04/02/2004 Version End Date: -
2	927m E	Status: Historical Licence No: 24/67/10/0030 Details: General Farming & Domestic Direct Source: EAW Groundwater Point: WELL B Data Type: Point Name: Dodd Easting: 326630 Northing: 370090	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 25/10/1966 Expiry Date: - Issue No: 101 Version Start Date: 04/02/2004 Version End Date: -
3	956m E	Status: Historical Licence No: 24/67/10/0014 Details: General Farming & Domestic Direct Source: EAW Groundwater Point: WELL Data Type: Point Name: Charlton Easting: 326310 Northing: 369390	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 09/08/1966 Expiry Date: - Issue No: 100 Version Start Date: 09/08/1966 Version End Date: -
4	1100m SW	Status: Historical Licence No: 18/54/01/0507 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: SEVERN BANKS - BOREHOLE/WELL Data Type: Point Name: LLOYD Easting: 323800 Northing: 370000	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 05/10/1970 Expiry Date: - Issue No: 100 Version Start Date: 05/10/1970 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m

9

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 66**



ID	Location	Details	
A	375m E	Status: Historical Licence No: 24/67/10/0079 Details: Process Water Direct Source: EAW Surface Water Point: RESERVOIR Data Type: Point Name: SCA Hygiene Products UK Ltd Easting: 326330 Northing: 371170	Annual Volume (m ³): 626212 Max Daily Volume (m ³): 6727.6 Original Application No: - Original Start Date: 14/06/1968 Expiry Date: - Issue No: 102 Version Start Date: 01/04/2011 Version End Date: -
A	375m E	Status: Historical Licence No: 24/67/10/0079 Details: Process Water - Medium Direct Source: - Point: - Data Type: Point Name: - Easting: 326330 Northing: 371170	Annual Volume (m ³): 626212 Max Daily Volume (m ³): - Original Application No: - Original Start Date: Apr 1 2011 12:00AM Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
A	380m E	Status: Active Licence No: 24/67/10/0079 Details: Process Water - Medium Direct Source: Okenholt Reservoir Point: - Data Type: Point Name: - Easting: 326334 Northing: 371176	Annual Volume (m ³): 626,211.50 Max Daily Volume (m ³): - Original Application No: - Original Start Date: Jan 31 2018 12:00AM Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
B	898m N	Status: Historical Licence No: 24/67/10/0080 Details: Process Water Direct Source: EAW Surface Water Point: STREAM Data Type: Point Name: SCA Hygiene Products UK Ltd Easting: 325520 Northing: 372060	Annual Volume (m ³): 123879 Max Daily Volume (m ³): 518.244 Original Application No: - Original Start Date: 14/06/1968 Expiry Date: - Issue No: 101 Version Start Date: 01/04/2003 Version End Date: -
B	898m N	Status: Historical Licence No: 24/67/10/0080 Details: Process Water - Medium Direct Source: - Point: - Data Type: Point Name: Mike King Easting: 325520 Northing: 372060	Annual Volume (m ³): 123879 Max Daily Volume (m ³): - Original Application No: - Original Start Date: Apr 1 2003 12:00AM Expiry Date: - Issue No: - Version Start Date: - Version End Date: -



ID	Location	Details	
B	901m N	Status: Active Licence No: 24/67/10/0080 Details: Process Water - Medium Direct Source: Pandy Brook at Pentre Ffwrndan Point: - Data Type: Point Name: - Easting: 325525 Northing: 372065	Annual Volume (m ³): 123,878.50 Max Daily Volume (m ³): - Original Application No: - Original Start Date: Jan 31 2018 12:00AM Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
5	1174m W	Status: Historical Licence No: 24/67/10/0092 Details: Spray Irrigation - Direct Direct Source: EAW Surface Water Point: RESERVOIR Data Type: Point Name: Welsh College Of Horticulture Easting: 324025 Northing: 369260	Annual Volume (m ³): 2154.8 Max Daily Volume (m ³): 181.8 Original Application No: - Original Start Date: 08/06/1973 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2007 Version End Date: -
6	1226m N	Status: Active Licence No: 24/67/10/0099 Details: Unknown (Impounding) - Direct Source: - Point: - Data Type: Point Name: - Easting: 325750 Northing: 372440	Annual Volume (m ³): 0 Max Daily Volume (m ³): - Original Application No: - Original Start Date: Mar 5 1979 12:00AM Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
7	1350m SW	Status: Historical Licence No: 24/67/10/0089 Details: General Farming & Domestic Direct Source: EAW Surface Water Point: SPRING Data Type: Point Name: Atkinson Easting: 323230 Northing: 370290	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 13/03/1970 Expiry Date: - Issue No: 100 Version Start Date: 25/07/1973 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m

0

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)

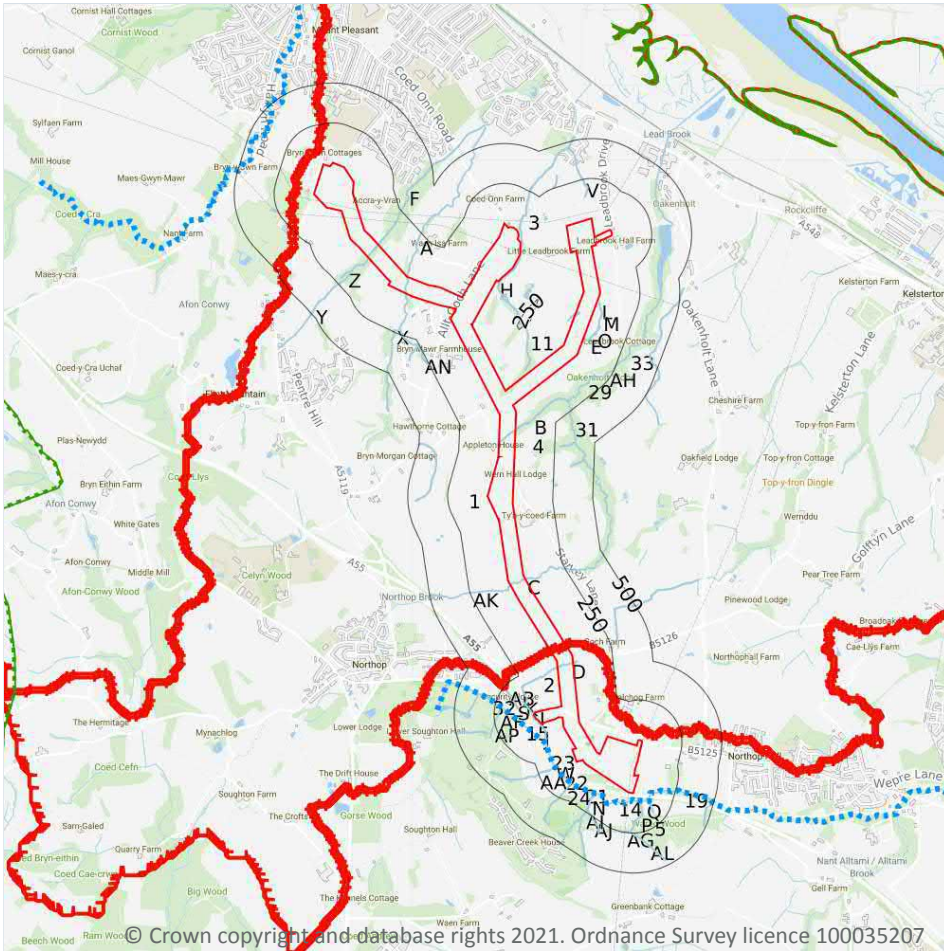
Records within 500m

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

65

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 71**

ID	Location	Type of water feature	Ground level	Permanence	Name
2	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
3	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)	Northop Brook
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
E	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	3m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	3m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	4m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	6m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	9m W	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
L	15m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	19m E	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
11	26m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	29m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
M	32m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
14	40m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	44m SE	Marsh. An area that is predominantly waterlogged by freshwater.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
O	54m E	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
O	63m E	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
O	64m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	66m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Q	66m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
15	76m SW	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
H	80m SE	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
19	101m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Q	101m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
S	101m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Q	110m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Q	111m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
21	118m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	118m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
22	121m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
23	123m S	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
24	136m S	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
V	138m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
W	139m W	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
W	139m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Y	143m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Z	143m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
S	155m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
29	161m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lead Brook
W	162m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
K	163m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AA	167m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AB	179m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
31	196m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lead Brook
32	209m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AF	209m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
X	214m SW	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
X	214m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AH	219m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lead Brook
AH	221m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lead Brook
33	228m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lead Brook
AI	229m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AJ	229m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AG	240m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AK	241m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Northop Brook
AL	241m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AN	243m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AK	245m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Northop Brook
AP	247m W	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

60

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 71**

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site

2

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 71**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
4	On site	Coastal catchment	Not part of a river WB catchment	166	Dee Estuary	Dee
5	On site	River WB catchment	Wepre Brook	GB111067056880	Dee Estuary	Dee

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

6.4 WFD Surface water bodies

Records identified

1

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.

Features are displayed on the Hydrology map on **page 71**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
13	40m S	River	Wepre Brook	GB111067056880	Moderate	Good	Moderate	2016

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

6.5 WFD Groundwater bodies

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

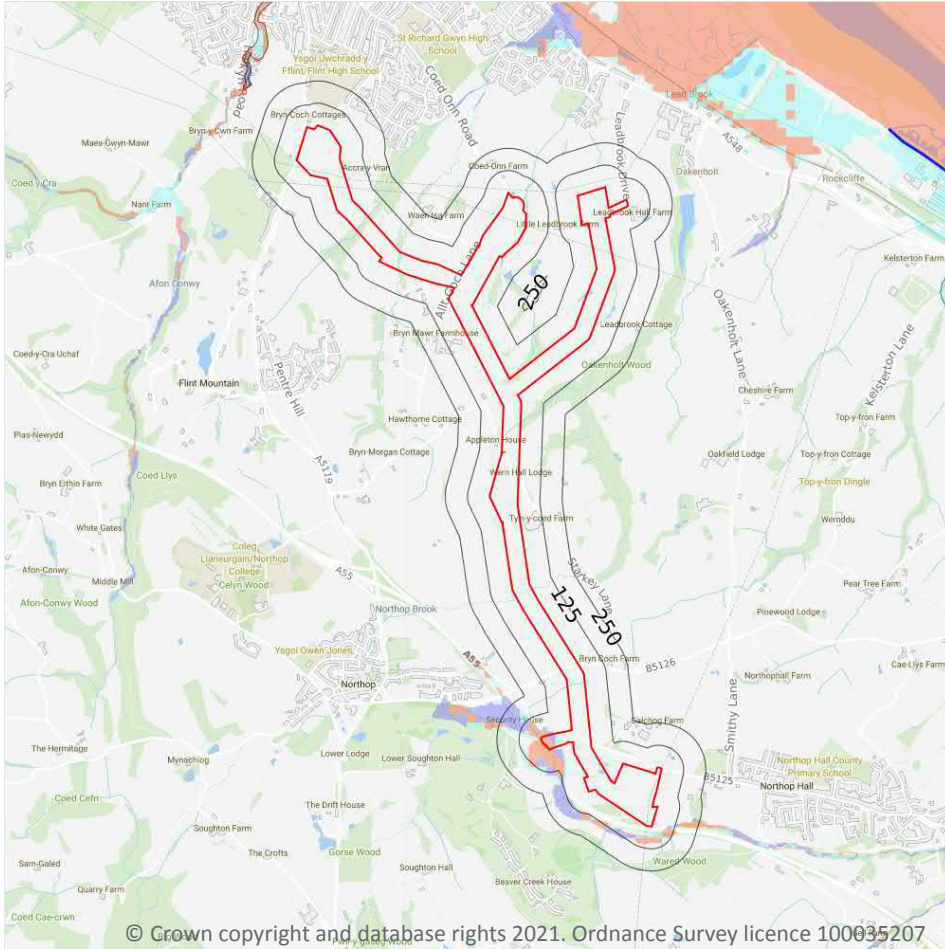
Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place.

Features are displayed on the Hydrology map on **page 71**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
1	On site	Dee Carboniferous Coal Measures	GB41102G204800	Poor	Poor	Good	2016

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

7 River and coastal flooding



Site Outline

Search buffers in metres (m)

Environment Agency 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 Sea (RoFRaS)

Records within 50m

9

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition; 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).

Features are displayed on the River and coastal flooding map on **page 79**

Distance	RoFRaS flood risk
On site	High
0 - 50m	High



Contact us with any questions at:

08444 159 000

Date: 30 July 2021

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

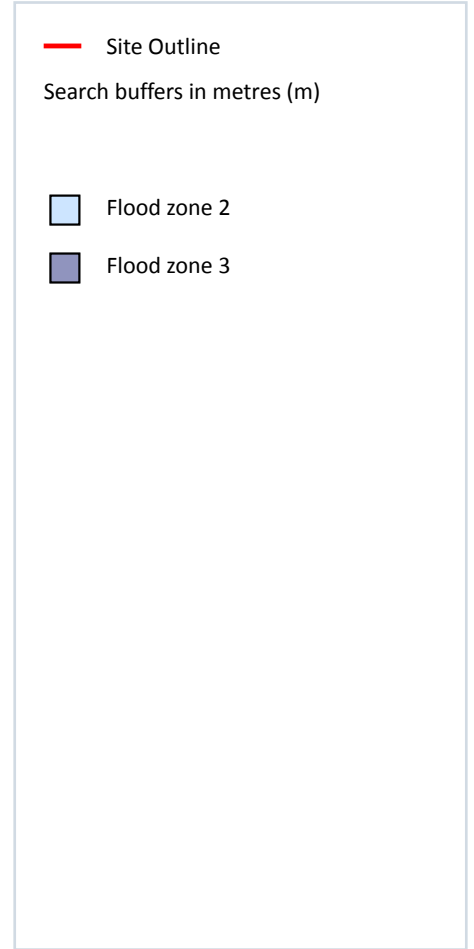
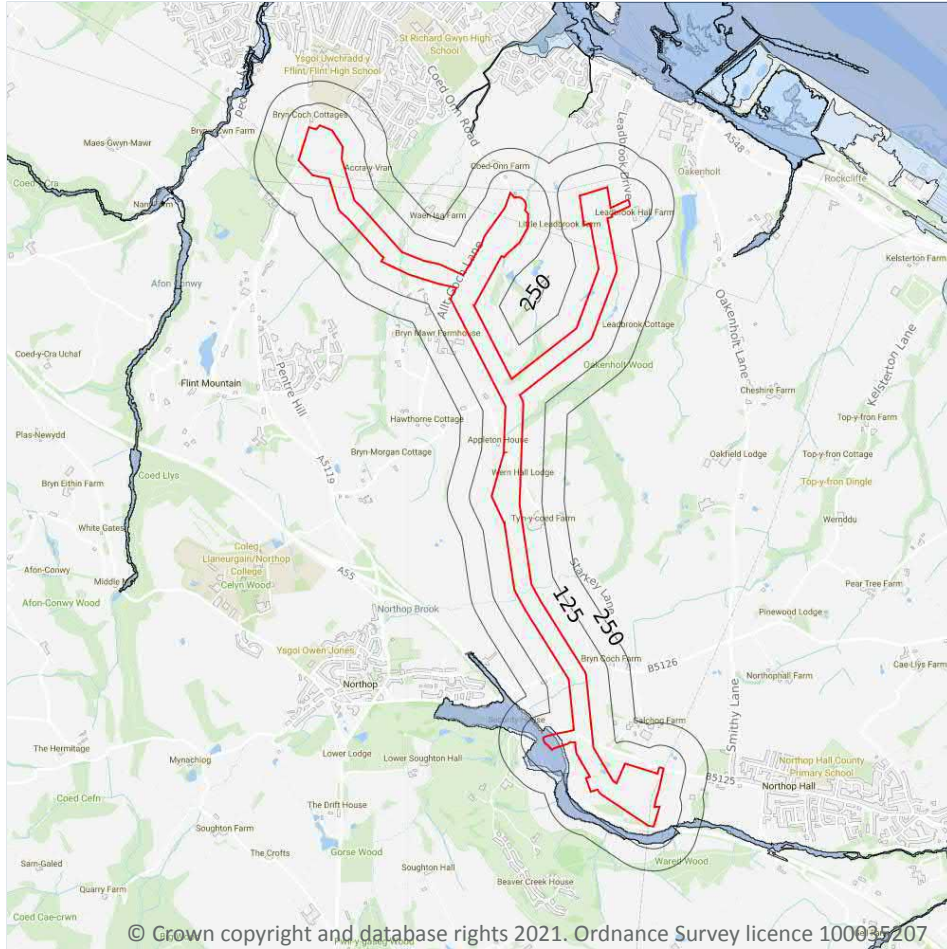
Records within 250m

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

1

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.

Features are displayed on the River and coastal flooding map on **page 79**

Location	Type
On site	Zone 2 - (Fluvial /Tidal Models)

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

7.7 Flood Zone 3

Records within 50m

1

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.

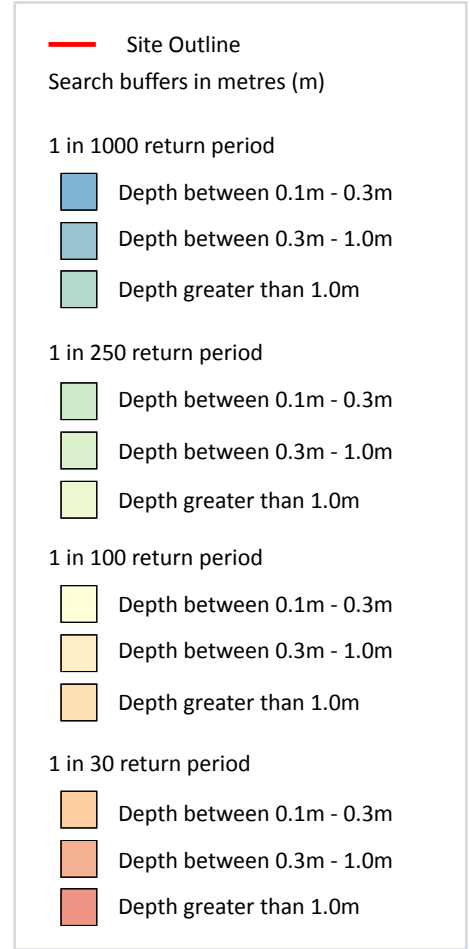
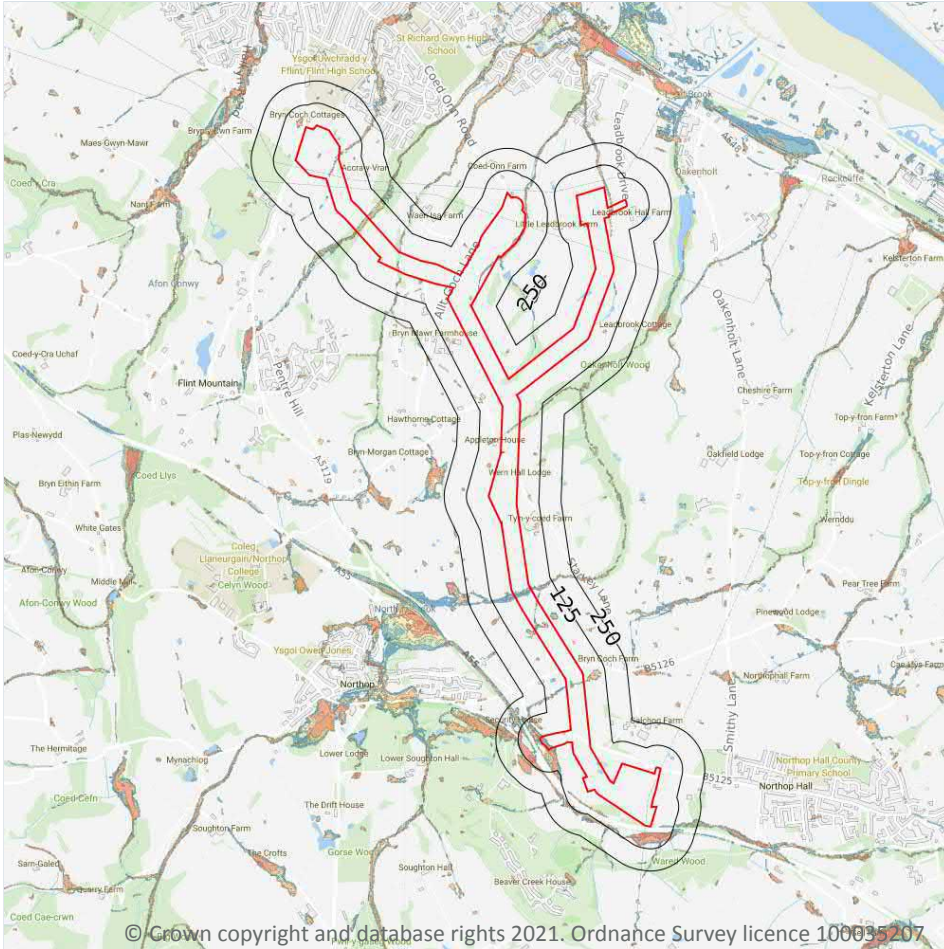
Features are displayed on the River and coastal flooding map on **page 79**

Location	Type
On site	Zone 3 - (Fluvial Models)

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



8 Surface water flooding



8.1 Surface water flooding

Highest risk on site

1 in 30 year, 0.3m - 1.0m

Highest risk within 50m

1 in 30 year, Greater than 1.0m

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 83**

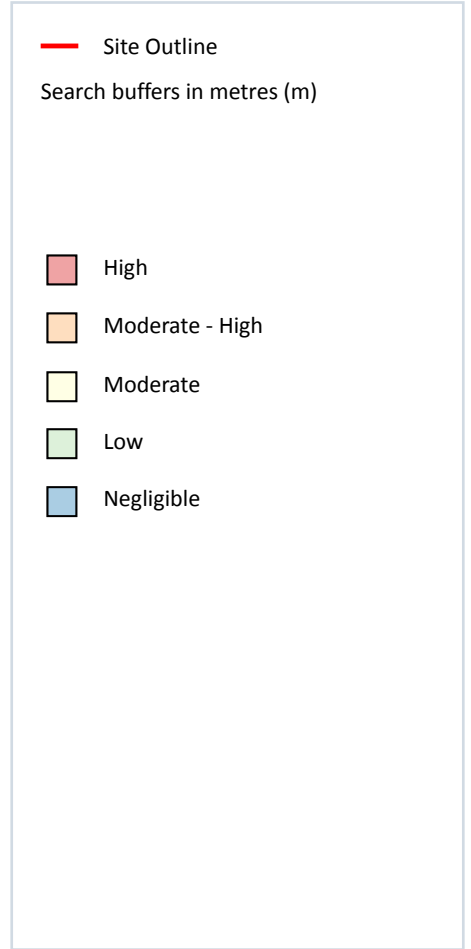
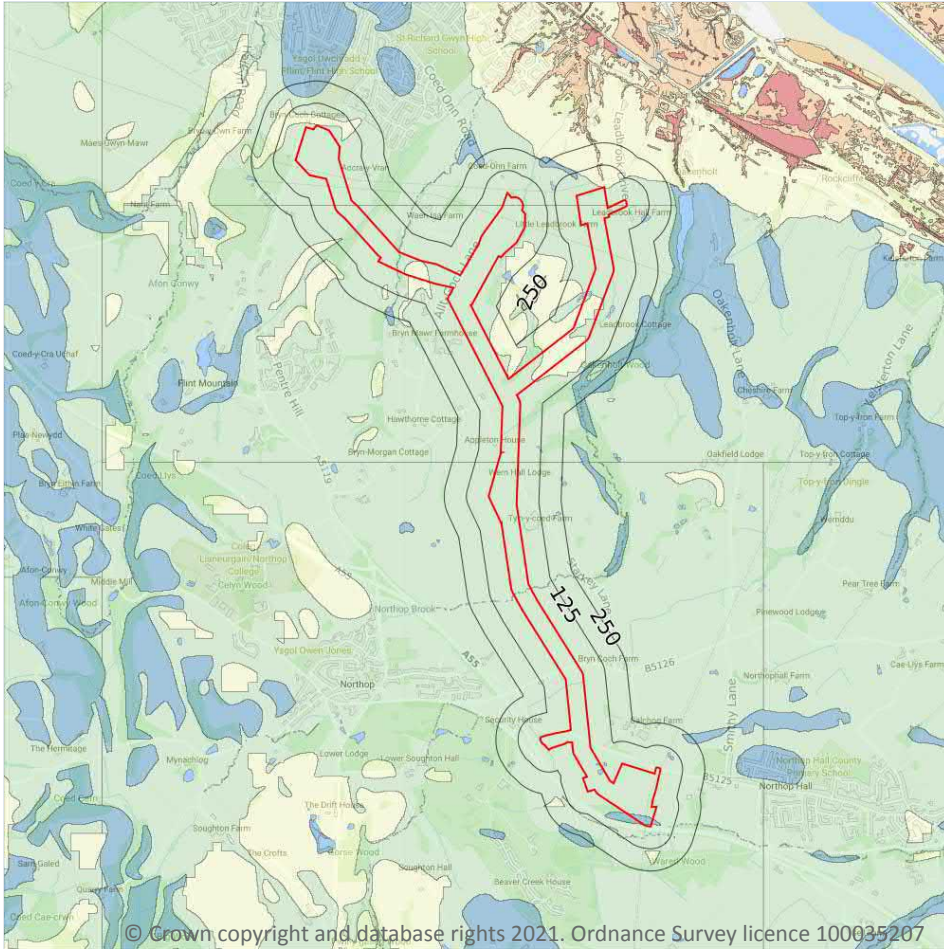
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

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	Greater than 1.0m
1 in 250 year	Between 0.3m and 1.0m
1 in 100 year	Between 0.3m and 1.0m
1 in 30 year	Between 0.3m and 1.0m

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding



9.1 Groundwater flooding

Highest risk on site

Moderate

Highest risk within 50m

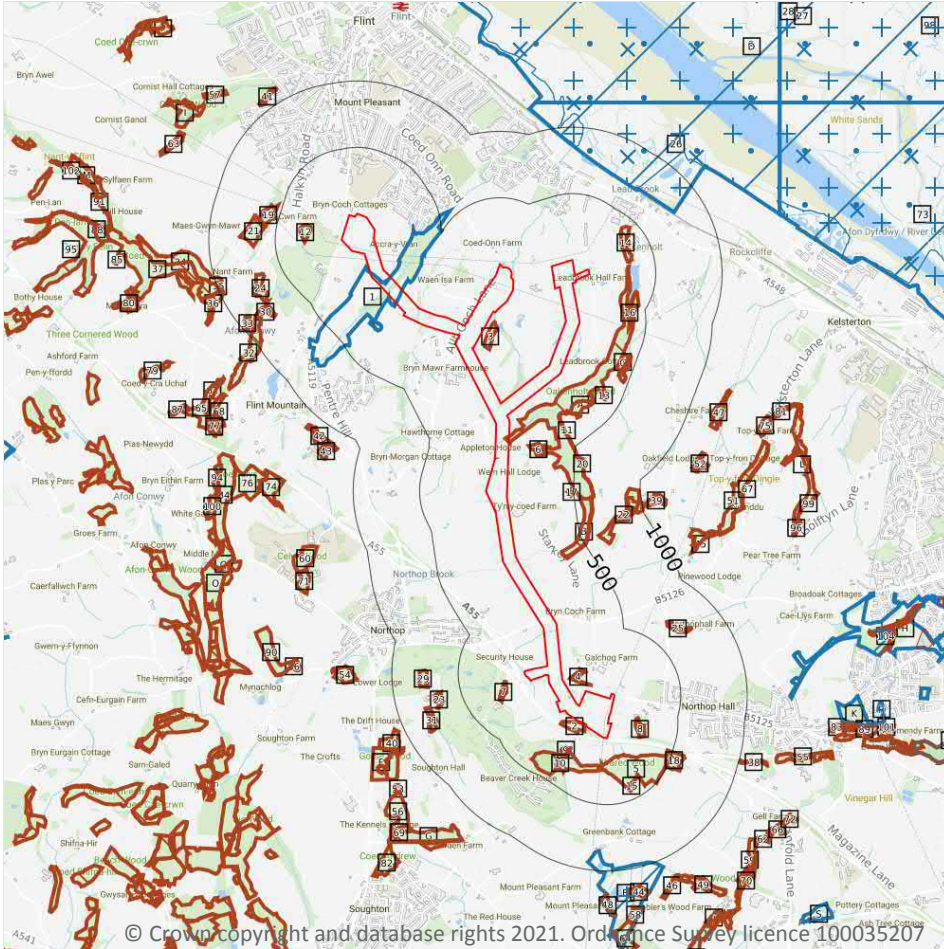
Moderate-High

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 85**

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- Sites of Special Scientific Interest (SSSI)
- × Conserved wetland sites (Ramsar sites)
- + Special Areas of Conservation (SAC)
- Special Protection Areas (SPA)
- + Local Nature Reserves (LNR)
- ▨ Designated Ancient Woodland

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

11

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 86**

ID	Location	Name	Data source
1	On site	Mynydd Y Flint / Flint Mountain	Natural Resources Wales



ID	Location	Name	Data source
26	702m NE	Dee Estuary / Aber Afon Dyfrdwy	Natural Resources Wales
E	851m S	Maes Y Grug	Natural Resources Wales
50	1186m N	Dee Estuary / Aber Afon Dyfrdwy	Natural Resources Wales
H	1324m E	Connah's Quay Ponds And Woodland	Natural Resources Wales
73	1499m E	Dee Estuary / Aber Afon Dyfrdwy	Natural Resources Wales
K	1678m E	Connah's Quay Ponds And Woodland	Natural Resources Wales
N	1906m E	Connah's Quay Ponds And Woodland	Natural Resources Wales
98	1915m NE	Dee Estuary / Aber Afon Dyfrdwy	Natural Resources Wales
R	1991m E	Connah's Quay Ponds And Woodland	Natural Resources Wales
S	1996m SE	Buckley Claypits And Commons	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

3

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.

Features are displayed on the Environmental designations map on **page 86**



ID	Location	Site	Details
D	702m NE	Name: The Dee Estuary (Wales) Site status: - Data source: Natural Resources Wales	<p>Overview: The Dee is a large funnel-shaped sheltered estuary and is one of the top ten estuaries in the UK for wintering and passage waterfowl populations. The estuary supports internationally important numbers of waterfowl and waders. The estuary is an accreting system and the extent of saltmarsh continues to expand as the estuary seeks to achieve a new equilibrium situation following large-scale historical land-claim at the head of the estuary which commenced in the 1730s. Nevertheless, the estuary still supports extensive areas of intertidal sand and mudflats as well as saltmarsh. Where land-claim has not occurred, the saltmarshes grade into transitional brackish and freshwater swamp vegetation, on the upper shore. The site includes the three sandstone islands of Hilbre with their important cliff vegetation and maritime heathland/grassland, the sand dune system between the Point of Ayr and Prestatyn in Wales and Red Rocks in England, various Welsh coastal fields historically reclaimed from the estuary but used by the Dee Estuary wintering waterfowl populations, freshwater lagoons and reedbeds at Shotton supporting the largest common tern breeding colony in Wales and freshwater lagoons at Inner Marsh Farm used by waterfowl throughout the year but particularly in winter. The two shorelines of the estuary show a marked contrast between the industrialised usage of the coastal belt in Wales and residential and recreational usage in England.</p> <p>Ramsar criteria: Ramsar criterion 1 Extensive intertidal mud and sand flats (20 km by 9 km) with large expanses of saltmarsh towards the head of the estuary. Habitats Directive Annex I features present on the pSAC include: H1130 Estuaries H1140 Mudflats and sandflats not covered by seawater at low tide H1210 Annual vegetation of drift lines H1230 Vegetated sea cliffs of the Atlantic and Baltic coasts H1310 Salicornia and other annuals colonising mud and sand H1330 Atlantic salt meadows (<i>Glauco-Puccinellietalia maritimae</i>) H2110 Embryonic shifting dunes H2120 Shifting dunes along the shoreline with <i>Ammophila arenaria</i> ("white dunes") H2130 Fixed dunes with herbaceous vegetation ("grey dunes") H2190 Humid dune slacks Criterion 2, it supports breeding colonies of the vulnerable Natterjack Toad, <i>Epidalea calamita</i></p>

ID	Location	Site	Details
27	709m NE	Name: The Dee Estuary Site status: Listed Data source: Natural England	<p>Overview: The Dee is a large funnel-shaped sheltered estuary and is one of the top ten estuaries in the UK for wintering and passage waterfowl populations. The estuary supports internationally important numbers of waterfowl and waders. The estuary is an accreting system and the extent of saltmarsh continues to expand as the estuary seeks to achieve a new equilibrium situation following large-scale historical land-claim at the head of the estuary which commenced in the 1730s. Nevertheless, the estuary still supports extensive areas of intertidal sand and mudflats as well as saltmarsh. Where land-claim has not occurred, the saltmarshes grade into transitional brackish and freshwater swamp vegetation, on the upper shore. The site includes the three sandstone islands of Hilbre with their important cliff vegetation and maritime heathland/grassland, the sand dune system between the Point of Ayr and Prestatyn in Wales and Red Rocks in England, various Welsh coastal fields historically reclaimed from the estuary but used by the Dee Estuary wintering waterfowl populations, freshwater lagoons and reedbeds at Shotton supporting the largest common tern breeding colony in Wales and freshwater lagoons at Inner Marsh Farm used by waterfowl throughout the year but particularly in winter. The two shorelines of the estuary show a marked contrast between the industrialised usage of the coastal belt in Wales and residential and recreational usage in England.</p> <p>Ramsar criteria: Ramsar criterion 1 Extensive intertidal mud and sand flats (20 km by 9 km) with large expanses of saltmarsh towards the head of the estuary. Habitats Directive Annex I features present on the pSAC include: H1130 Estuaries H1140 Mudflats and sandflats not covered by seawater at low tide H1210 Annual vegetation of drift lines H1230 Vegetated sea cliffs of the Atlantic and Baltic coasts H1310 Salicornia and other annuals colonising mud and sand H1330 Atlantic salt meadows (<i>Glauco-Puccinellietalia maritimae</i>) H2110 Embryonic shifting dunes H2120 Shifting dunes along the shoreline with <i>Ammophila arenaria</i> ("white dunes") H2130 Fixed dunes with herbaceous vegetation ("grey dunes") H2190 Humid dune slacks Criterion 2, it supports breeding colonies of the vulnerable Natterjack Toad, <i>Epidalea calamita</i></p>

ID	Location	Site	Details
-	1772m N	Name: The Dee Estuary Site status: Listed Data source: Natural England	<p>Overview: The Dee is a large funnel-shaped sheltered estuary and is one of the top ten estuaries in the UK for wintering and passage waterfowl populations. The estuary supports internationally important numbers of waterfowl and waders. The estuary is an accreting system and the extent of saltmarsh continues to expand as the estuary seeks to achieve a new equilibrium situation following large-scale historical land-claim at the head of the estuary which commenced in the 1730s. Nevertheless, the estuary still supports extensive areas of intertidal sand and mudflats as well as saltmarsh. Where land-claim has not occurred, the saltmarshes grade into transitional brackish and freshwater swamp vegetation, on the upper shore. The site includes the three sandstone islands of Hilbre with their important cliff vegetation and maritime heathland/grassland, the sand dune system between the Point of Ayr and Prestatyn in Wales and Red Rocks in England, various Welsh coastal fields historically reclaimed from the estuary but used by the Dee Estuary wintering waterfowl populations, freshwater lagoons and reedbeds at Shotton supporting the largest common tern breeding colony in Wales and freshwater lagoons at Inner Marsh Farm used by waterfowl throughout the year but particularly in winter. The two shorelines of the estuary show a marked contrast between the industrialised usage of the coastal belt in Wales and residential and recreational usage in England.</p> <p>Ramsar criteria: Ramsar criterion 1 Extensive intertidal mud and sand flats (20 km by 9 km) with large expanses of saltmarsh towards the head of the estuary. Habitats Directive Annex I features present on the pSAC include: H1130 Estuaries H1140 Mudflats and sandflats not covered by seawater at low tide H1210 Annual vegetation of drift lines H1230 Vegetated sea cliffs of the Atlantic and Baltic coasts H1310 Salicornia and other annuals colonising mud and sand H1330 Atlantic salt meadows (<i>Glauco-Puccinellietalia maritima</i>) H2110 Embryonic shifting dunes H2120 Shifting dunes along the shoreline with <i>Ammophila arenaria</i> ("white dunes") H2130 Fixed dunes with herbaceous vegetation ("grey dunes") H2190 Humid dune slacks Criterion 2, it supports breeding colonies of the vulnerable Natterjack Toad, <i>Epidalea calamita</i></p>

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m

6

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 86**

ID	Location	Name	Features of interest	Habitat description	Data source
D	702m NE	Dee Estuary / Aber Dyfrdwy (Wales)	Estuaries; Intertidal mudflats and sandflats; Lagoons; Annual vegetation of drift lines; Vegetated sea cliffs; Glasswort and other annuals colonising mud and sand; Cord-grass swards; Atlantic salt meadows; Shifting dunes; Shifting dunes with marram; Dune grassland; Humid dune slacks; Dry heaths; Sea lamprey; River lamprey; Twaite shad; Otter; Grey seal; Petalwort.	Shingle, Sea cliffs, Islets; Salt marshes, Salt pastures, Salt steppes; Humid grassland, Mesophile grassland; Improved grassland; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Bogs, Marshes, Water fringed vegetation, Fens; Broad-leaved deciduous woodland; Coastal sand dunes, Sand beaches, Machair; Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites)	Natural Resources Wales
E	851m S	Deeside and Buckley Newt sites	Western acidic oak woodland; Alder woodland on floodplains; Great crested newt; Bullhead.	Coniferous woodland; Broad-leaved deciduous woodland; Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens; Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Dry grassland, Steppes; Improved grassland; Heath, Scrub, Maquis and Garrigue, Phygrana; Mixed woodland	Natural Resources Wales
H	1618m E	Deeside and Buckley Newt sites	Western acidic oak woodland; Alder woodland on floodplains; Great crested newt; Bullhead.	Coniferous woodland; Broad-leaved deciduous woodland; Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens; Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Dry grassland, Steppes; Improved grassland; Heath, Scrub, Maquis and Garrigue, Phygrana; Mixed woodland	Natural Resources Wales
K	1678m E	Deeside and Buckley Newt sites	Western acidic oak woodland; Alder woodland on floodplains; Great crested newt; Bullhead.	Coniferous woodland; Broad-leaved deciduous woodland; Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens; Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Dry grassland, Steppes; Improved grassland; Heath, Scrub, Maquis and Garrigue, Phygrana; Mixed woodland	Natural Resources Wales



ID	Location	Name	Features of interest	Habitat description	Data source
R	1991m E	Deeside and Buckley Newt sites	Western acidic oak woodland; Alder woodland on floodplains; Great crested newt; Bullhead.	Coniferous woodland; Broad-leaved deciduous woodland; Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens; Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Dry grassland, Steppes; Improved grassland; Heath, Scrub, Maquis and Garrigue, Phygrana; Mixed woodland	Natural Resources Wales
S	1996m SE	Deeside and Buckley Newt sites	Western acidic oak woodland; Alder woodland on floodplains; Great crested newt; Bullhead.	Coniferous woodland; Broad-leaved deciduous woodland; Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens; Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Dry grassland, Steppes; Improved grassland; Heath, Scrub, Maquis and Garrigue, Phygrana; Mixed woodland	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

2

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.

Features are displayed on the Environmental designations map on **page 86**

ID	Location	Name	Species of interest	Habitat description	Data source
D	702m NE	The Dee Estuary (Wales)	Common shelduck; Eurasian teal; Northern pintail; Eurasian oystercatcher; Grey plover; Red knot; Bar-tailed godwit; Eurasian curlew; Common redshank; Common redshank; Sandwich tern; Common tern; Little tern; Black-tailed godwit; Dunlin	Broad-leaved deciduous woodland; Shingle, Sea cliffs, Islets; Coastal sand dunes, Sand beaches, Machair; Mixed woodland; Dry grassland, Steppes; Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste plac	



ID	Location	Name	Species of interest	Habitat description	Data source
28	710m NE	The Dee Estuary	Common shelduck; Eurasian teal; Northern pintail; Eurasian oystercatcher; Grey plover; Red knot; Bar-tailed godwit; Eurasian curlew; Common redshank; Common redshank; Sandwich tern; Common tern; Little tern; Black-tailed godwit; Dunlin	Broad-leaved deciduous woodland; Shingle, Sea cliffs, Islets; Coastal sand dunes, Sand beaches, Machair; Mixed woodland; Dry grassland, Steppes; Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste plac	Natural England

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

10.5 National Nature Reserves (NNR)

Records within 2000m	0
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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
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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	122
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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 86**

ID	Location	Name	Woodland Type
2	On site	Unknown	Restored Ancient Woodland Site
A	On site	Unknown	Restored Ancient Woodland Site



ID	Location	Name	Woodland Type
3	38m SE	Unknown	Ancient Semi Natural Woodland
4	50m N	Unknown	Restored Ancient Woodland Site
5	151m SE	Unknown	Restored Ancient Woodland Site
6	151m E	Unknown	Restored Ancient Woodland Site
7	154m SW	Unknown	Restored Ancient Woodland Site
8	180m E	Unknown	Ancient Semi Natural Woodland
9	202m SW	Unknown	Ancient Semi Natural Woodland
10	214m S	Unknown	Restored Ancient Woodland Site
11	236m SE	Unknown	Ancient Semi Natural Woodland
A	243m SE	Unknown	Ancient Semi Natural Woodland
12	244m W	Unknown	Ancient Semi Natural Woodland
13	293m SE	Unknown	Restored Ancient Woodland Site
14	296m E	Unknown	Restored Ancient Woodland Site
B	314m NE	Unknown	Ancient Semi Natural Woodland
B	317m NE	Unknown	Ancient Semi Natural Woodland
15	358m SE	Unknown	Restored Ancient Woodland Site
16	363m SE	Unknown	Restored Ancient Woodland Site
C	380m E	Unknown	Restored Ancient Woodland Site
C	413m E	Unknown	Ancient Semi Natural Woodland
17	456m E	Unknown	Restored Ancient Woodland Site
18	463m E	Unknown	Plantation on Ancient Woodland Site
19	527m W	Unknown	Ancient Semi Natural Woodland
20	530m E	Unknown	Restored Ancient Woodland Site
21	581m W	Unknown	Restored Ancient Woodland Site
22	623m NE	Unknown	Restored Ancient Woodland Site
23	644m W	Unknown	Restored Ancient Woodland Site
24	644m SW	Unknown	Ancient Semi Natural Woodland
25	654m NE	Unknown	Ancient Semi Natural Woodland



ID	Location	Name	Woodland Type
29	733m W	Unknown	Ancient Semi Natural Woodland
30	739m SW	Unknown	Restored Ancient Woodland Site
31	752m SW	Unknown	Ancient Semi Natural Woodland
32	848m SW	Unknown	Restored Ancient Woodland Site
33	903m SW	Unknown	Ancient Semi Natural Woodland
34	953m W	Unknown	Ancient Semi Natural Woodland
35	971m W	Unknown	Ancient Semi Natural Woodland
36	974m SW	Unknown	Ancient Semi Natural Woodland
37	994m SW	Unknown	Ancient Semi Natural Woodland
38	1010m E	Unknown	Restored Ancient Woodland Site
39	1026m E	Unknown	Restored Ancient Woodland Site
40	1044m SW	Unknown	Ancient Semi Natural Woodland
41	1055m NW	Unknown	Ancient Semi Natural Woodland
42	1071m SW	Unknown	Restored Ancient Woodland Site
43	1114m SW	Unknown	Restored Ancient Woodland Site
F	1115m SW	Unknown	Restored Ancient Woodland Site
F	1132m SW	Unknown	Plantation on Ancient Woodland Site
44	1141m S	Unknown	Restored Ancient Woodland Site
45	1149m NE	Unknown	Restored Ancient Woodland Site
46	1157m SE	Unknown	Restored Ancient Woodland Site
G	1172m SW	Unknown	Plantation on Ancient Woodland Site
47	1172m E	Unknown	Restored Ancient Woodland Site
48	1175m S	Unknown	Ancient Semi Natural Woodland
49	1183m SE	Unknown	Ancient Semi Natural Woodland
51	1188m NE	Unknown	Restored Ancient Woodland Site
G	1213m SW	Unknown	Plantation on Ancient Woodland Site
52	1216m SE	Unknown	Ancient Semi Natural Woodland
53	1262m SW	Unknown	Ancient Semi Natural Woodland



ID	Location	Name	Woodland Type
54	1262m W	Unknown	Ancient Semi Natural Woodland
55	1268m E	Unknown	Restored Ancient Woodland Site
56	1292m SW	Unknown	Restored Ancient Woodland Site
57	1296m NW	Unknown	Ancient Semi Natural Woodland
58	1299m S	Unknown	Restored Ancient Woodland Site
G	1310m SW	Unknown	Restored Ancient Woodland Site
59	1319m SE	Unknown	Ancient Semi Natural Woodland
60	1338m W	Unknown	Restored Ancient Woodland Site
61	1351m SW	Unknown	Ancient Semi Natural Woodland
I	1355m NW	Unknown	Ancient Semi Natural Woodland
62	1355m SE	Unknown	Restored Ancient Woodland Site
63	1376m NW	Unknown	Ancient Semi Natural Woodland
64	1385m S	Unknown	Restored Ancient Woodland Site
65	1391m SW	Unknown	Ancient Semi Natural Woodland
66	1404m SE	Unknown	Ancient Semi Natural Woodland
67	1405m NE	Unknown	Restored Ancient Woodland Site
I	1413m NW	Unknown	Ancient Semi Natural Woodland
68	1419m SW	Unknown	Ancient Semi Natural Woodland
69	1423m SW	Unknown	Ancient Semi Natural Woodland
70	1429m SE	Unknown	Restored Ancient Woodland Site
71	1460m W	Unknown	Restored Ancient Woodland Site
72	1474m SE	Unknown	Ancient Semi Natural Woodland
74	1521m W	Unknown	Restored Ancient Woodland Site
J	1543m SE	Unknown	Ancient Semi Natural Woodland
75	1544m E	Unknown	Restored Ancient Woodland Site
76	1555m SW	Unknown	Plantation on Ancient Woodland Site
77	1566m SW	Unknown	Ancient Semi Natural Woodland
78	1578m SE	Unknown	Restored Ancient Woodland Site



ID	Location	Name	Woodland Type
79	1584m SW	Unknown	Ancient Semi Natural Woodland
80	1593m W	Unknown	Ancient Semi Natural Woodland
81	1612m E	Unknown	Restored Ancient Woodland Site
J	1613m SE	Unknown	Restored Ancient Woodland Site
82	1614m SW	Unknown	Ancient Semi Natural Woodland
83	1645m E	Unknown	Restored Ancient Woodland Site
84	1673m SW	Unknown	Plantation on Ancient Woodland Site
85	1673m W	Unknown	Ancient Semi Natural Woodland
K	1685m E	Unknown	Ancient Semi Natural Woodland
86	1696m W	Unknown	Ancient Semi Natural Woodland
87	1708m SW	Unknown	Ancient Semi Natural Woodland
L	1725m E	Unknown	Ancient Semi Natural Woodland
88	1727m W	Unknown	Ancient Semi Natural Woodland
89	1735m E	Unknown	Restored Ancient Woodland Site
90	1740m W	Unknown	Ancient Semi Natural Woodland
91	1745m W	Unknown	Ancient Semi Natural Woodland
K	1746m E	Unknown	Ancient Semi Natural Woodland
-	1760m SE	Unknown	Ancient Semi Natural Woodland
94	1777m SW	Unknown	Restored Ancient Woodland Site
95	1796m W	Unknown	Ancient Semi Natural Woodland
L	1802m E	Unknown	Ancient Semi Natural Woodland
M	1805m W	Unknown	Ancient Semi Natural Woodland
96	1805m NE	Unknown	Restored Ancient Woodland Site
M	1866m W	Unknown	Restored Ancient Woodland Site
97	1906m E	Unknown	Ancient Semi Natural Woodland
99	1921m NE	Unknown	Ancient Semi Natural Woodland
O	1922m W	Unknown	Plantation on Ancient Woodland Site
P	1930m NW	Unknown	Restored Ancient Woodland Site



ID	Location	Name	Woodland Type
100	1949m SW	Unknown	Ancient Semi Natural Woodland
101	1949m E	Unknown	Restored Ancient Woodland Site
102	1954m W	Unknown	Ancient Semi Natural Woodland
-	1963m S	Unknown	Restored Ancient Woodland Site
Q	1963m W	Unknown	Restored Ancient Woodland Site
Q	1964m W	Unknown	Restored Ancient Woodland Site
104	1976m E	Unknown	Restored Ancient Woodland Site
P	1989m NW	Unknown	Restored Ancient Woodland Site

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

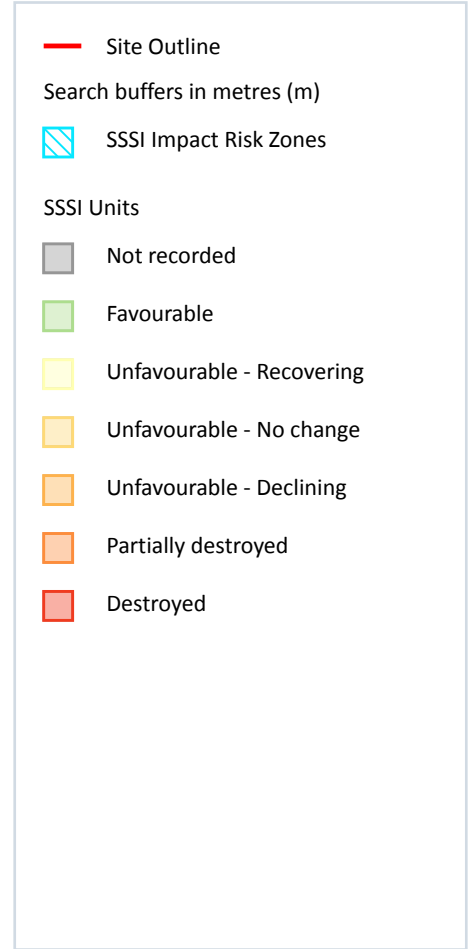
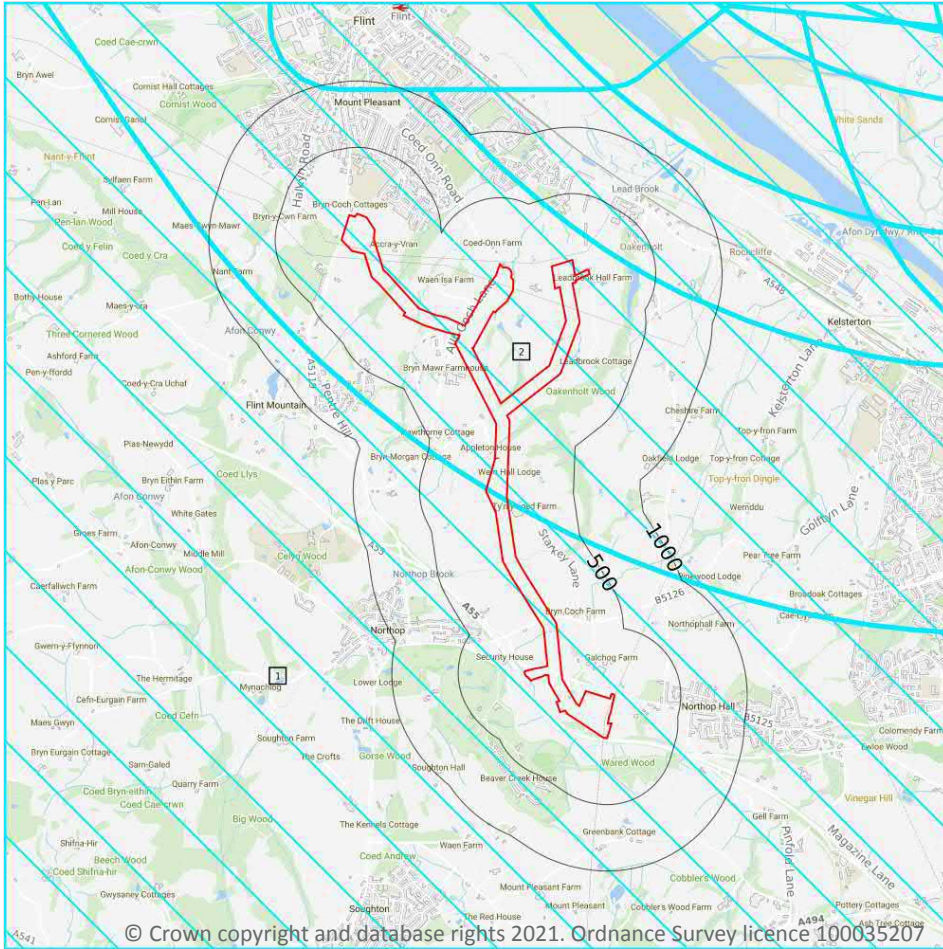
Records within 2000m

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

2

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.

Features are displayed on the SSSI Impact Zones and Units map on **page 101**

ID	Location	Type of developments requiring consultation
1	On site	<p>Infrastructure - Airports, helipads and other aviation proposals.</p> <p>Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons > 4000m².</p> <p>Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion</p>

ID	Location	Type of developments requiring consultation
2	On site	<p>Infrastructure - Airports, helipads and other aviation proposals.</p> <p>Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons > 750m² & manure stores > 3500t)</p> <p>Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion</p>

This data is sourced from Natural England.

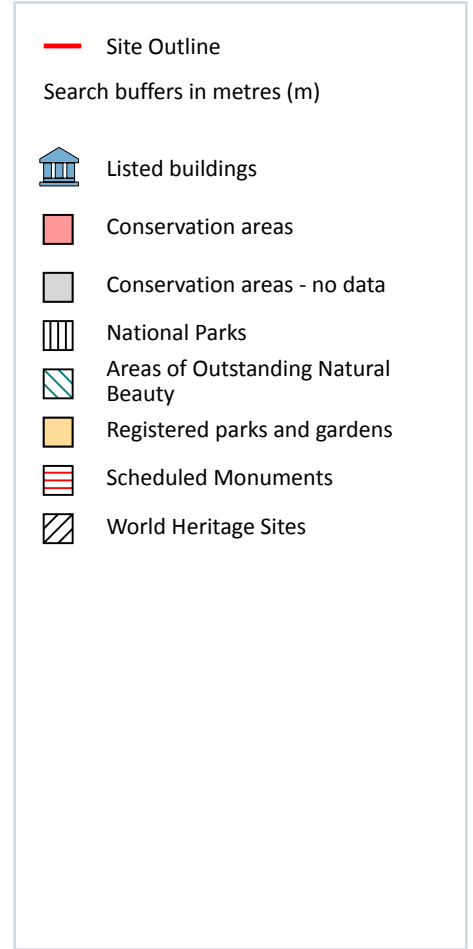
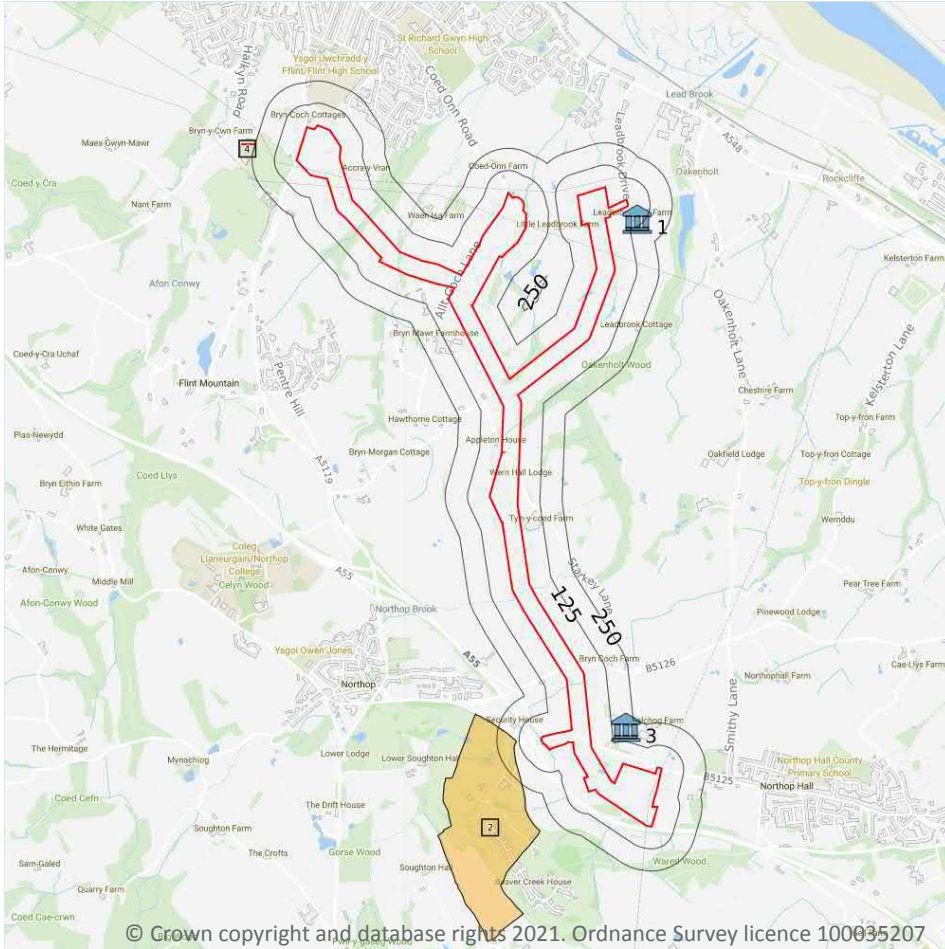
10.18 SSSI Units

Records within 2000m	0
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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

2

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.

Features are displayed on the Visual and cultural designations map on **page 103**

ID	Location	Name	Grade	Reference Number	Listed date
1	93m SE	Leadbrook Hall, About 800M S Of Junction With Chester Road	II	16409	11/09/1995
3	204m N	Highfield Hall, Located At The End Of The Drive, The Entrance Facing S With Garden Front To The W	II	322	11/06/1962

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**1**

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.

Features are displayed on the Visual and cultural designations map on **page 103**

ID	Location	Ancient monument name	Reference number
4	244m W	Bryn y Cwm Mound & Bailey Castle	643

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

11.7 Registered Parks and Gardens

Records within 250m**1**

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.

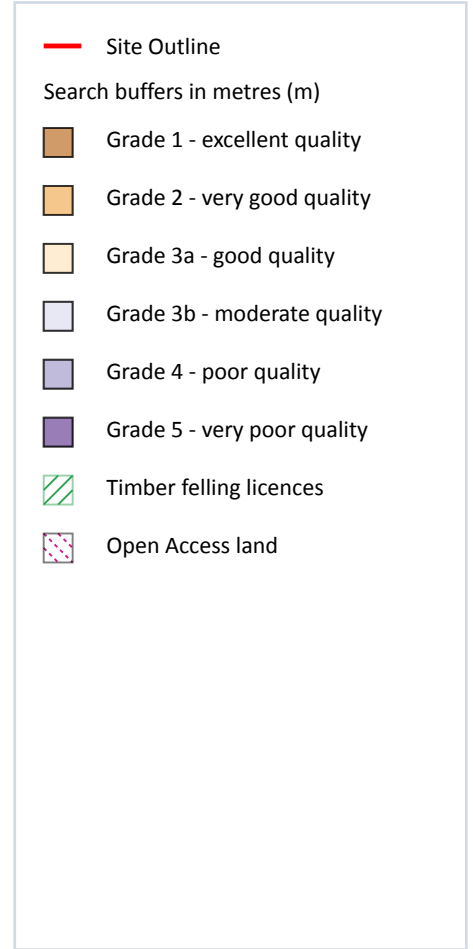
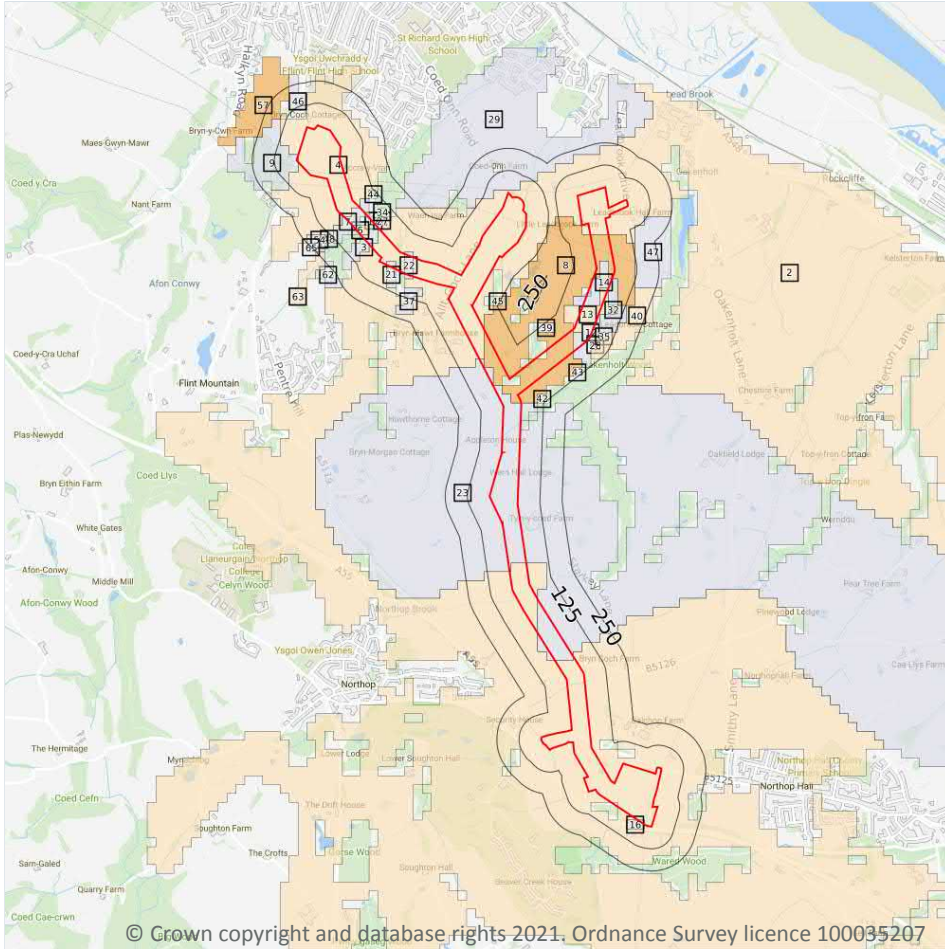
Features are displayed on the Visual and cultural designations map on **page 103**

ID	Location	Name	Grade
2	140m W	Soughton Hall	Essential Setting

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



12 Agricultural designations



12.1 Agricultural Land Classification

Records within 250m

36

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 106**

ID	Location	Classification	Description
2	On site	Grade 3a	Good to moderate quality agricultural land
3	On site	Grade 3b	Moderate quality agricultural land
4	On site	Grade 3a	Good to moderate quality agricultural land

ID	Location	Classification	Description
6	On site	Grade 3a	Good to moderate quality agricultural land
7	On site	Grade 3b	Moderate quality agricultural land
8	On site	Grade 2	Good quality agricultural land
9	On site	Grade 3b	Moderate quality agricultural land
12	On site	Grade 3b	Moderate quality agricultural land
13	On site	Grade 3a	Good to moderate quality agricultural land
14	On site	Grade 3b	Moderate quality agricultural land
16	On site	Grade 3b	Moderate quality agricultural land
17	On site	Grade 3a	Good to moderate quality agricultural land
21	On site	Grade 3b	Moderate quality agricultural land
22	On site	Grade 3b	Moderate quality agricultural land
23	On site	Grade 3b	Moderate quality agricultural land
27	8m NE	Grade 3b	Moderate quality agricultural land
28	15m SE	Grade 2	Good quality agricultural land
29	15m N	Grade 3b	Moderate quality agricultural land
32	35m E	Grade 2	Good quality agricultural land
34	41m NE	Grade 3a	Good to moderate quality agricultural land
35	41m E	Grade 2	Good quality agricultural land
37	45m S	Grade 3b	Moderate quality agricultural land
39	50m NW	Grade 3b	Moderate quality agricultural land
40	52m SE	Grade 3a	Good to moderate quality agricultural land
42	65m SE	Grade 3b	Moderate quality agricultural land
43	70m SE	Grade 3b	Moderate quality agricultural land
44	71m NE	Grade 3b	Moderate quality agricultural land
45	79m SE	Grade 3a	Good to moderate quality agricultural land
46	96m N	Grade 3b	Moderate quality agricultural land
47	111m SE	Grade 3b	Moderate quality agricultural land
48	112m SW	Grade 4	Poor quality agricultural land



ID	Location	Classification	Description
54	147m SW	Grade 3b	Moderate quality agricultural land
57	157m W	Grade 2	Good quality agricultural land
62	212m SW	Grade 3b	Moderate quality agricultural land
63	216m SW	Grade 3a	Good to moderate quality agricultural land
65	217m SW	Grade 4	Poor 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

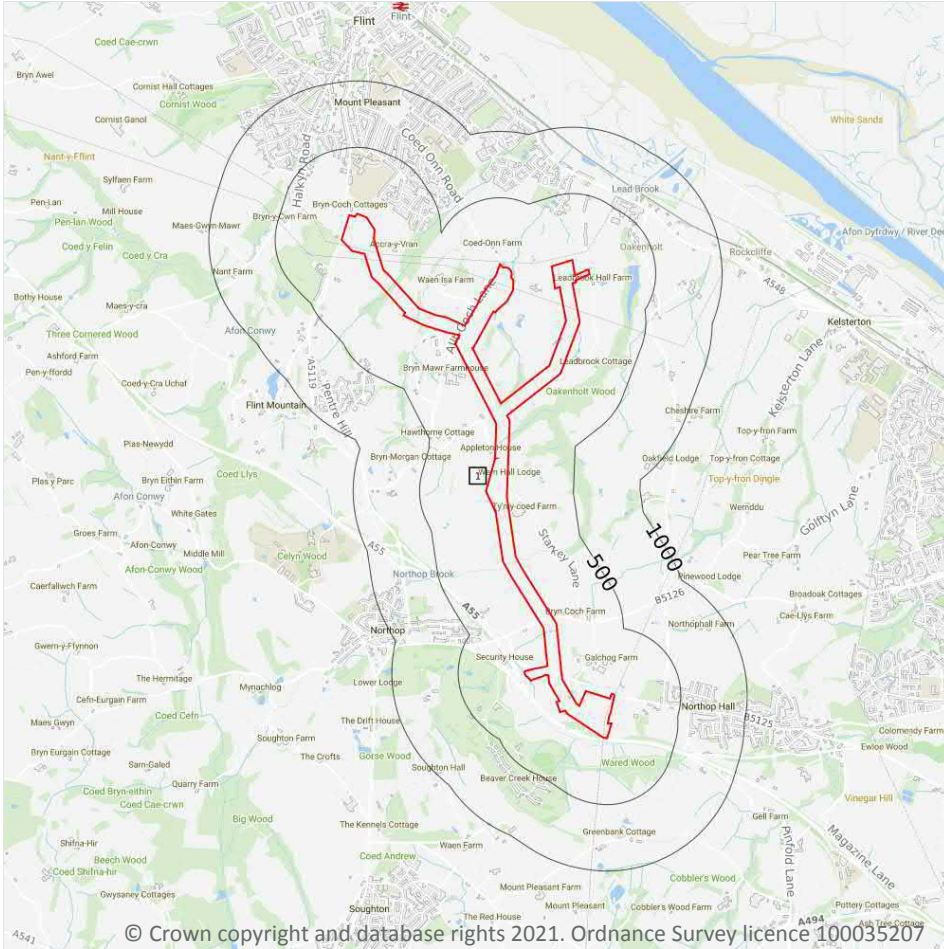
0

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

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 111**

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

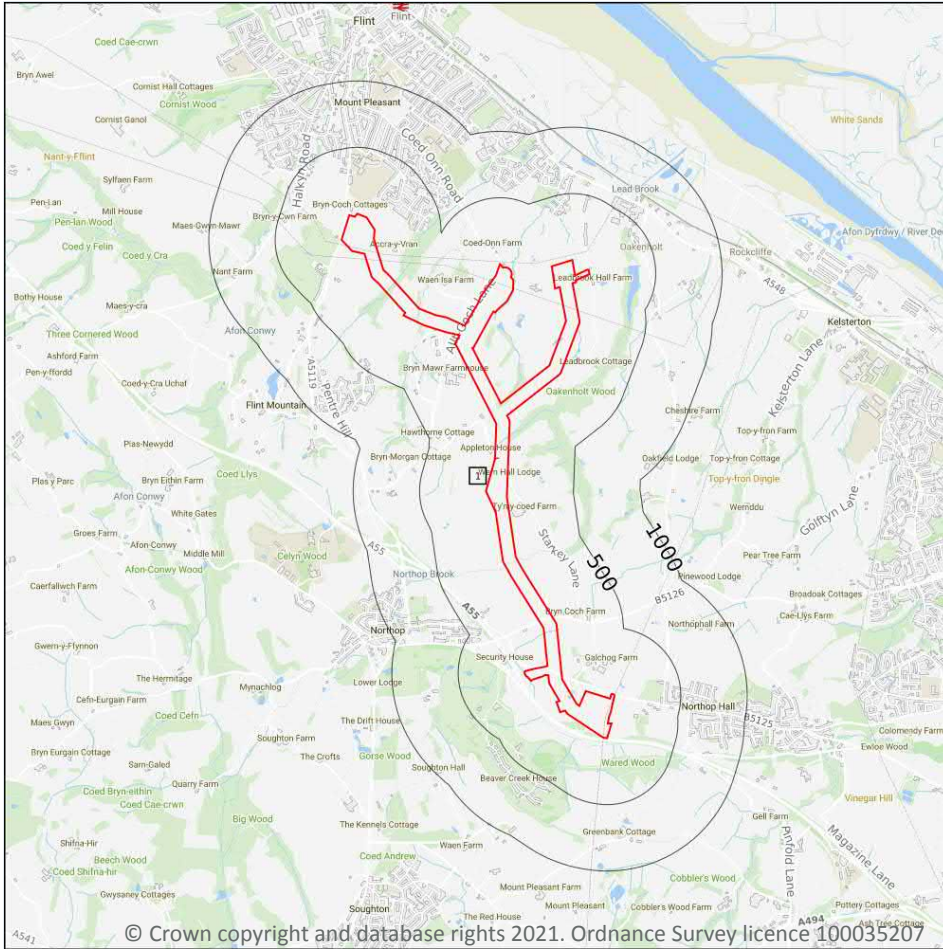
0

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

1

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 115**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW108_flint_v4

This data is sourced from the British Geological Survey.



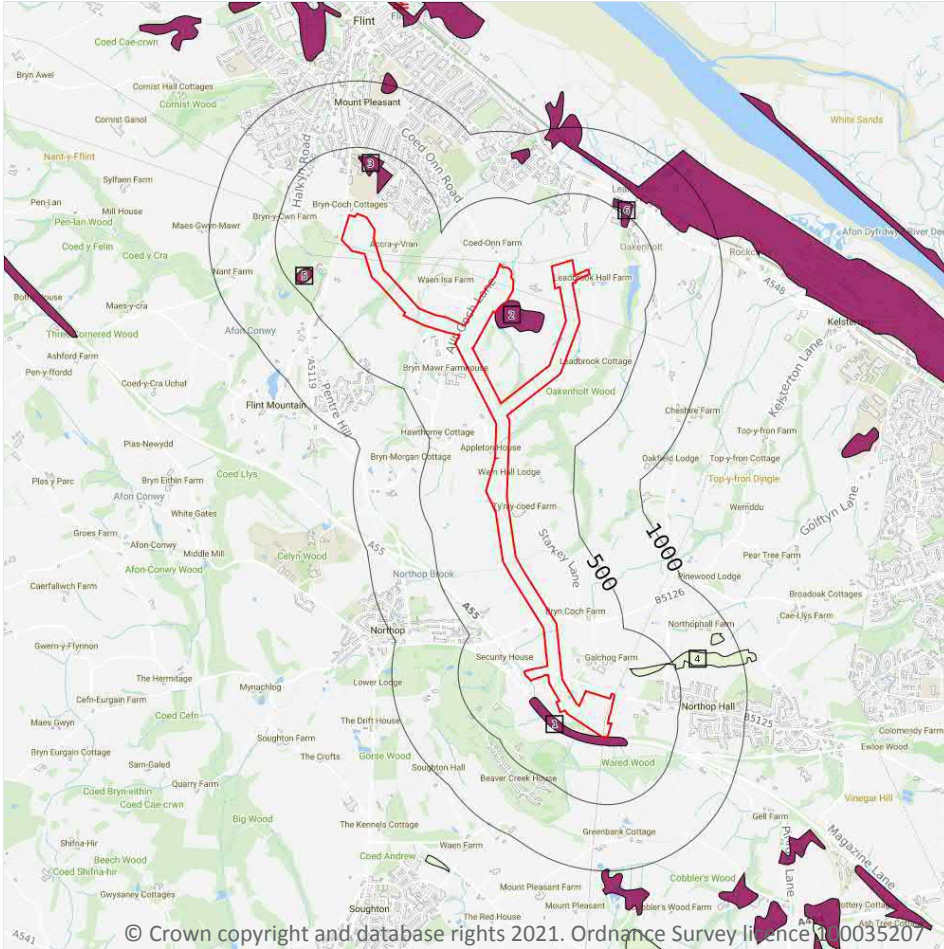
Contact us with any questions at:

08444 159 000

Date: 30 July 2021

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



— Site Outline
Search buffers in metres (m)

- Made ground
- Worked ground
- Infilled ground
- Disturbed ground
- Landscaped ground

15.2 Artificial and made ground (50k)

Records within 500m

6

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

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 116**

ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	On site	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
3	199m NE	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
4	215m NE	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT



ID	Location	LEX Code	Description	Rock description
5	323m SW	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
6	415m NE	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

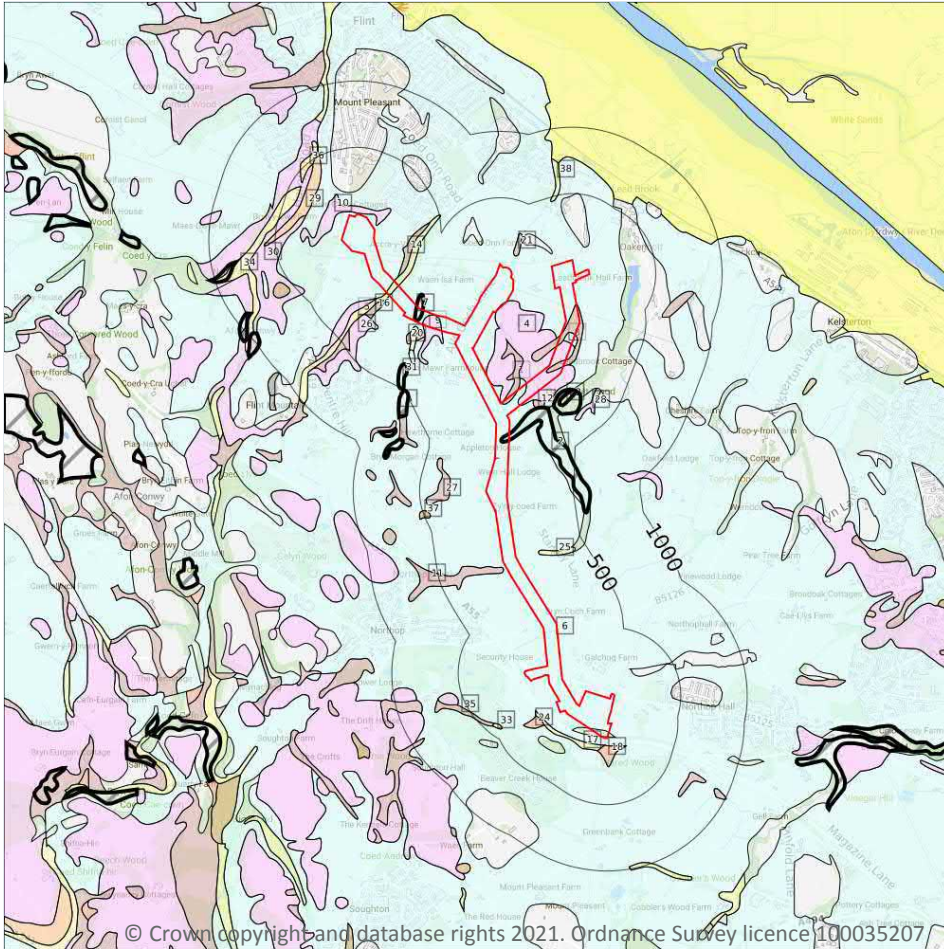
Records within 50m	2
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A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial



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

15.4 Superficial geology (50k)

Records within 500m

35

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 118**

ID	Location	LEX Code	Description	Rock description
1	On site	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
3	On site	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
4	On site	GFDUD-XSV	GLACIOFLUVIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL



ID	Location	LEX Code	Description	Rock description
5	On site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
6	On site	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
8	On site	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
9	On site	GFDUD-XSV	GLACIOFLUVIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL
10	6m N	GFICD-XSV	GLACIOFLUVIAL ICE CONTACT DEPOSITS, DEVENSIAN	SAND AND GRAVEL
11	25m SW	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
12	31m SE	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
13	34m SW	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
14	40m NE	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
15	42m SW	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
16	44m SW	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
17	55m S	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
18	55m S	ALF-XSV	ALLUVIAL FAN DEPOSITS	SAND AND GRAVEL
19	78m SW	GFDUD-XSV	GLACIOFLUVIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL
20	96m SW	GFDUD-XSV	GLACIOFLUVIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL
21	106m NE	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
23	149m SE	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
24	153m SW	ALF-XSV	ALLUVIAL FAN DEPOSITS	SAND AND GRAVEL
25	165m NE	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
26	209m W	GFDUD-XSV	GLACIOFLUVIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL
27	273m W	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
28	295m SE	GFDUD-XSV	GLACIOFLUVIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL
29	295m W	RTDU-XSV	RIVER TERRACE DEPOSITS (UNDIFFERENTIATED)	SAND AND GRAVEL



ID	Location	LEX Code	Description	Rock description
30	312m W	GFICD-XSV	GLACIOFLUVIAL ICE CONTACT DEPOSITS, DEVENSIAN	SAND AND GRAVEL
32	397m SW	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
33	407m SW	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
34	411m W	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
35	426m SW	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
36	432m NW	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
37	455m SW	PEAT-P	PEAT	PEAT
38	466m N	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
A	489m SW	SUPD-SED	SUPERFICIAL DEPOSITS	SEDIMENT

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	16
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A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any superficial deposits (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	High	Low
On site	Mixed	High	Very Low
On site	Mixed	High	Low
On site	Intergranular	Very High	High
On site	Mixed	High	Very Low
On site	Intergranular	Very High	High
On site	Intergranular	High	Very Low
On site	Mixed	High	Low
On site	Mixed	High	Low
6m NW	Intergranular	Very High	High
24m S	Mixed	High	Very Low



Location	Flow type	Maximum permeability	Minimum permeability
31m NE	Mixed	High	Very Low
34m NW	Intergranular	High	Very Low
40m NW	Mixed	High	Very Low
42m NW	Mixed	High	Very Low
44m NW	Mixed	High	Very Low

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	5
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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.

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 118**

ID	Location	LEX Code	Description	Rock description
2	On site	SLIP-UNKNOWN	LANDSLIDE DEPOSITS	UNKNOWN/UNCLASSIFIED ENTRY
7	On site	SLIP-UNKNOWN	LANDSLIDE DEPOSITS	UNKNOWN/UNCLASSIFIED ENTRY
22	114m SE	SLIP-UNKNOWN	LANDSLIDE DEPOSITS	UNKNOWN/UNCLASSIFIED ENTRY
31	326m SW	SLIP-UNKNOWN	LANDSLIDE DEPOSITS	UNKNOWN/UNCLASSIFIED ENTRY
A	489m SW	SLIP-UNKNOWN	LANDSLIDE DEPOSITS	UNKNOWN/UNCLASSIFIED ENTRY

This data is sourced from the British Geological Survey.

15.7 Landslip 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 any landslip deposits (the zone between the land surface and the water table).


Flow type	Maximum permeability	Minimum permeability
Mixed	Very High	Low
Mixed	Very High	Low



This data is sourced from the British Geological Survey.



Contact us with any questions at:


08444 159 000

Date: 30 July 2021

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

42

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 123**

ID	Location	LEX Code	Description	Rock age
1	On site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
3	On site	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN



ID	Location	LEX Code	Description	Rock age
4	On site	GS-SDAR	GWESPYR SANDSTONE - SANDSTONE AND [SUBEQUAL/SUBORDINATE] ARGILLACEOUS ROCKS, INTERBEDDED	NAMURIAN
5	On site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
6	On site	GS-SDAR	GWESPYR SANDSTONE - SANDSTONE AND [SUBEQUAL/SUBORDINATE] ARGILLACEOUS ROCKS, INTERBEDDED	NAMURIAN
7	On site	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
8	On site	ETM-MDSC	ETRURIA FORMATION - MUDSTONE, SANDSTONE AND CONGLOMERATE	WESTPHALIAN
9	On site	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
10	On site	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
11	On site	ETM-MDSC	ETRURIA FORMATION - MUDSTONE, SANDSTONE AND CONGLOMERATE	WESTPHALIAN
12	On site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
13	On site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
36	On site	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
37	On site	HLR-SDST	HOLLIN ROCK - SANDSTONE	WESTPHALIAN
38	On site	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
39	On site	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
43	51m N	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
44	58m S	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
45	65m SE	GS-SDAR	GWESPYR SANDSTONE - SANDSTONE AND [SUBEQUAL/SUBORDINATE] ARGILLACEOUS ROCKS, INTERBEDDED	NAMURIAN



ID	Location	LEX Code	Description	Rock age
48	88m SW	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
49	93m E	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
50	93m SW	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
53	124m E	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
55	124m SW	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
56	130m E	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
60	149m W	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
61	153m S	ETM-MDSC	ETRURIA FORMATION - MUDSTONE, SANDSTONE AND CONGLOMERATE	WESTPHALIAN
62	154m SW	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
66	159m E	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
71	200m E	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
73	230m E	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
76	257m E	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
85	328m E	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
86	331m E	GS-SDAR	GWESPYR SANDSTONE - SANDSTONE AND [SUBEQUAL/SUBORDINATE] ARGILLACEOUS ROCKS, INTERBEDDED	NAMURIAN
89	356m E	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
90	358m SW	BSG-MDST	BOWLAND SHALE FORMATION - MUDSTONE	WISEAN
92	359m SW	GS-SDAR	GWESPYR SANDSTONE - SANDSTONE AND [SUBEQUAL/SUBORDINATE] ARGILLACEOUS ROCKS, INTERBEDDED	NAMURIAN



ID	Location	LEX Code	Description	Rock age
94	379m E	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
98	419m E	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
99	447m E	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
102	474m E	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
104	495m E	GS-SDAR	GWESPYR SANDSTONE - SANDSTONE AND [SUBEQUAL/SUBORDINATE] ARGILLACEOUS ROCKS, INTERBEDDED	NAMURIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m

13

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Fracture	Moderate	Low
On site	Fracture	Moderate	Low
On site	Fracture	High	Low
On site	Fracture	Moderate	Low
On site	Fracture	High	Low
On site	Fracture	High	Low
On site	Fracture	Moderate	Low
On site	Fracture	High	Low
On site	Fracture	High	Low
On site	Fracture	High	Low
On site	Fracture	Moderate	Low
On site	Fracture	High	Moderate
3m N	Fracture	High	Low



This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	62
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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 123**

ID	Location	Category	Description
2	On site	ROCK	Coal seam, inferred
14	On site	ROCK	Coal seam, inferred
15	On site	ROCK	Coal seam, inferred
16	On site	ROCK	Coal seam, inferred
17	On site	ROCK	Coal seam, inferred
18	On site	ROCK	Coal seam, inferred
19	On site	ROCK	Coal seam, inferred
20	On site	ROCK	Coal seam, inferred
21	On site	ROCK	Coal seam, inferred
22	On site	ROCK	Coal seam, inferred
23	On site	FAULT	Fault, inferred, displacement unknown
24	On site	FAULT	Fault, inferred, displacement unknown
25	On site	FAULT	Fault, inferred, displacement unknown
26	On site	FAULT	Fault, inferred, displacement unknown
27	On site	FAULT	Fault, inferred, displacement unknown
28	On site	FAULT	Fault, inferred, displacement unknown
29	On site	FAULT	Fault, inferred, displacement unknown
30	On site	FAULT	Fault, inferred, displacement unknown
31	On site	FAULT	Fault, inferred, displacement unknown
32	On site	FAULT	Fault, inferred
33	On site	FAULT	Fault, inferred



ID	Location	Category	Description
34	On site	ROCK	Coal seam, inferred
35	On site	ROCK	Coal seam, inferred
40	1m E	ROCK	Coal seam, inferred
41	23m W	FAULT	Fault, inferred, displacement unknown
42	47m NE	ROCK	Coal seam, inferred
46	68m E	FAULT	Fault, inferred, displacement unknown
47	88m SW	ROCK	Coal seam, inferred
51	93m SW	FAULT	Fault, inferred, displacement unknown
52	121m SW	ROCK	Coal seam, inferred
54	124m E	FAULT	Fault, inferred, displacement unknown
57	133m NE	ROCK	Coal seam, inferred
58	137m E	ROCK	Coal seam, inferred
59	147m NE	FAULT	Fault, inferred, displacement unknown
63	154m SW	ROCK	Coal seam, inferred
64	157m NE	ROCK	Coal seam, inferred
65	159m E	FAULT	Fault, inferred, displacement unknown
67	172m NE	ROCK	Coal seam, inferred
68	173m NE	ROCK	Coal seam, inferred
69	178m NE	ROCK	Coal seam, inferred
70	193m SE	ROCK	Coal seam, inferred
72	215m NE	ROCK	Coal seam, inferred
74	241m E	ROCK	Coal seam, inferred
75	243m E	ROCK	Coal seam, inferred
77	268m E	ROCK	Coal seam, inferred
78	272m S	ROCK	Coal seam, inferred
79	282m E	ROCK	Coal seam, inferred
80	292m E	ROCK	Coal seam, inferred
81	301m E	ROCK	Coal seam, inferred

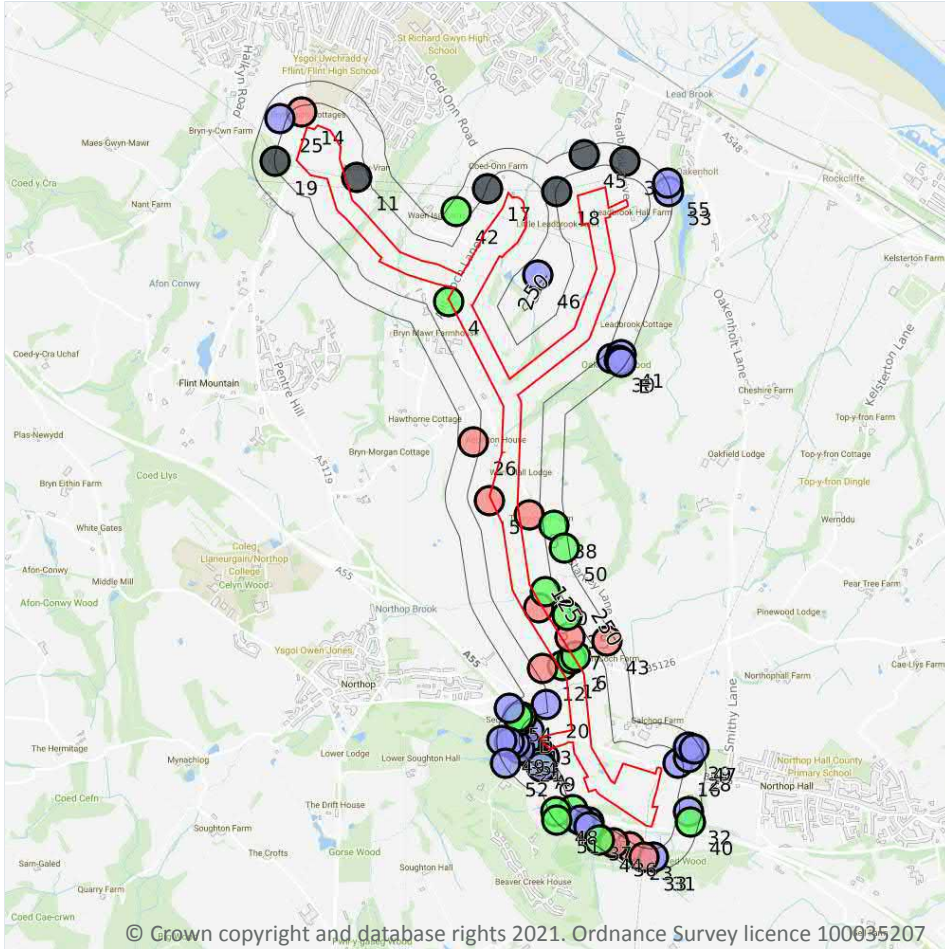


ID	Location	Category	Description
82	315m W	ROCK	Coal seam, inferred
83	318m SE	FAULT	Fault, inferred, displacement unknown
84	328m E	FAULT	Fault, inferred, displacement unknown
87	340m E	ROCK	Coal seam, inferred
88	351m E	ROCK	Coal seam, inferred
91	358m SW	FAULT	Fault, inferred
93	365m E	FAULT	Fault, inferred, displacement unknown
95	405m E	ROCK	Coal seam, inferred
96	413m N	FAULT	Fault, inferred, displacement unknown
97	417m SW	ROCK	Coal seam, inferred
100	465m E	ROCK	Coal seam, inferred
101	472m N	ROCK	Coal seam, inferred
103	486m NE	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.



16 Boreholes



Site Outline

Search buffers in metres (m)

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

16.1 BGS Boreholes

Records within 250m

67

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 130**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	325590 368520	PONT-EINON	17.1	N	146995
2	On site	325642 368558	PONT EINION & EXTENSION OPENCAST SITE. 6070	29.0	N	148258



ID	Location	Grid reference	Name	Length	Confidential	Web link
3	On site	325455 368848	PONT EINION & EXTENSION OPENCAST SITE. 6011	90.0	N	148253
4	6m SW	324950 370570	TROS-Y-MYNYDD FARM	11.2	N	151390
5	10m SW	325180 369450	TYDDYN STARKEY, O/C SITE. 1	64.77	N	147019
6	14m NE	325667 368572	PONT EINION & EXTENSION OPENCAST SITE. 6067	19.0	N	148256
7	44m NE	325634 368681	PONT EINION & EXTENSION OPENCAST SITE. 6069	59.3	N	148257
8	54m E	325400 369370	TYN Y COED FARM	70.0	N	20948247
9	55m SW	325490 368000	NORTHOP BY-PASS. 36	5.0	N	147013
10	57m NE	325492 368936	PONT EINION & EXTENSION OPENCAST SITE. 6014	20.0	N	148254
11	60m E	324430 371270	C.E.G.B. CONNAH'S QUAY. TOWER NO.241	-	Y	N/A
12	81m SW	325479 368506	PONT EINION & EXTENSION OPENCAST SITE. 6088	53.0	N	148259
13	81m NW	325400 368150	NORTHOP BY-PASS. 35	5.0	N	147012
A	83m SW	325440 368010	WARED WOOD, O/C SITE. 22	10.67	N	147497
A	88m SW	325420 368020	WARED WOOD, O/C SITE. 20	12.19	N	147496
B	91m SW	325390 368060	WARED WOOD, O/C SITE. 19	9.14	N	147494
14	91m N	324120 371640	DEE GREEN, BRYN COCH SHAFT	149.96	N	151547
B	92m SW	325400 368040	WARED WOOD, O/C SITE. 21	10.67	N	147495
B	93m W	325380 368080	WARED WOOD, O/C SITE. 17	9.14	N	147493
15	95m NE	325618 368803	PONT EINION & EXTENSION O/C SITE. 6487 (6496)	20.22	N	148278
C	97m SW	325460 367970	WARED WOOD, O/C SITE. 24	10.67	N	147498
16	98m E	326240 367970	MAIN COAL COLLIERY, NO.2 SHAFT D/C, NO.1 SHAFT	-2.0	N	147831
C	108m SW	325470 367950	GOLF COURSE, NORTHOP 5A	5.5	N	15044499
17	117m W	325170 371210	GEGB PYLON, SITES 243,4 & 8	-	Y	N/A
18	117m W	325560 371190	GEGB PYLON, SITES 243,4 & 8	-	Y	N/A
19	122m W	323970 371360	C.E.G.B. CONNAH'S QUAY. TOWER NO.240	-	Y	N/A
20	128m W	325500 368300	HIGHFIELD HALL, O/C SITE	-2.0	N	147017



ID	Location	Grid reference	Name	Length	Confidential	Web link
21	131m SW	325350 368050	GOLF COURSE, NORTHOP 5	8.9	N	15044498
22	133m SW	325650 367710	WARED WOOD, O/C SITE. 109	27.43	N	147499
23	150m SW	325970 367500	WARED WOOD, O/C SITE. 116	30.48	N	147515
24	152m W	325320 368080	GOLF COURSE, NORTHOP 4	7.2	N	15044497
D	156m NW	325350 368210	NORTHOP BY-PASS. 45	12.7	N	147010
25	157m W	324000 371600	BRYNCOCH COLLIERY, MINE PLAN	-2.0	N	151384
26	160m W	325090 369780	TYDDYN STARKEY, O/C SITE. 3	100.28	N	147020
27	160m SW	325740 367640	WARED WOOD, O/C SITE. 1	9.14	N	147507
D	161m NW	325360 368230	NORTHOP BY-PASS. 43	13.1	N	147011
28	165m E	326300 368000	GALCHOG COLLIERY, MINE PLAN	-2.0	N	147684
29	167m S	325690 367650	WARED WOOD, O/C SITE. 3	8.23	N	147506
30	171m SE	325870 370250	SHALLOW SHAFT	-2.0	N	150922
31	173m S	326100 367440	WARED WOOD, O/C SITE. 308	9.45	N	147517
D	176m NW	325340 368230	NORTHOP BY-PASS. 44	12.3	N	147009
32	176m E	326300 367700	MAIN COLLIERY, MINE PLAN	-2.0	N	147685
33	178m S	326050 367440	WARED WOOD, O/C SITE. 117	39.62	N	147516
34	181m NE	325940 371360	CONNAH'S QUAY-BANGOR, 400KV TOWER NO.246	-	Y	N/A
35	181m W	325290 368090	GOLF COURSE, NORTHOP 3	6.0	N	15044496
36	183m SW	325880 367520	WARED WOOD, O/C SITE. 115	30.48	N	147514
37	185m SW	325740 367610	WARED WOOD, O/C SITE. 2	7.62	N	147508
38	188m E	325544 369313	PONT EINION & EXTENSION OPENCAST SITE. 6205 ?	15.0	N	148266
39	195m NE	326300 368060	GALCLWG COLLIERY, NO.3 SHAFT UPCAST	-2.0	N	147832
40	201m E	326310 367640	PLAS-IFAN	13.6	N	146996
41	201m SE	325920 370270	SHALLOW SHAFT	-2.0	N	150921
42	203m NW	324990 371080	UNNAMED BOREHOLE	12.19	N	151586
43	204m NE	325838 368658	PONT EINION & EXTENSION OPENCAST SITE. 6040	70.2	N	148255
E	209m SE	325910 370240	SHALLOW SHAFT	-2.0	N	150923

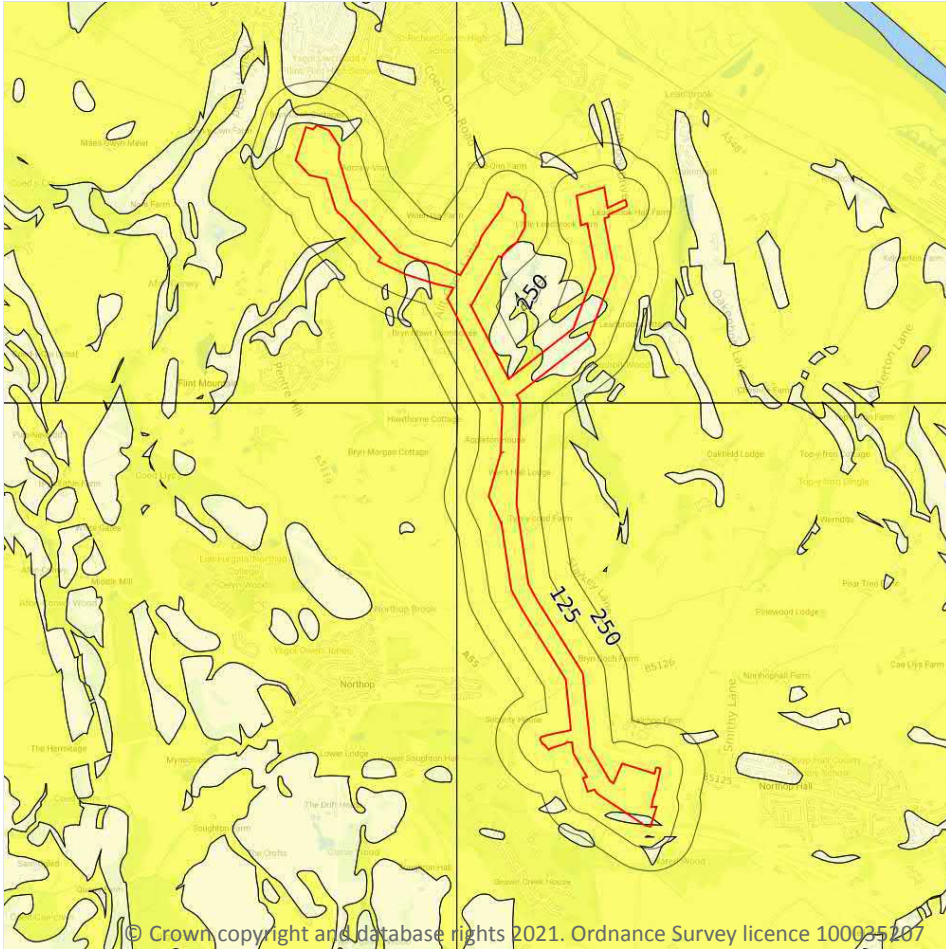


ID	Location	Grid reference	Name	Length	Confidential	Web link
44	210m SW	325800 367540	WARED WOOD, O/C SITE. 114	28.96	N	147512
45	211m N	325710 371400	CROES ATTI PROJECT FLINT A	-	Y	N/A
46	213m SE	325450 370720	LEADBROOK HALL FARM	5.21	N	150914
47	214m NE	326330 368050	GALCLWG COLLIERY, NO.2 SHAFT	-2.0	N	147833
48	218m SW	325550 367700	WARED WOOD, O/C SITE. 110	29.57	N	147500
49	220m W	325250 368100	GOLF COURSE, NORTHOP 6	6.0	N	15044500
E	223m SE	325920 370230	BELL PITS	-2.0	N	150945
50	226m E	325602 369184	PONT EINION & EXTENSION OPENCAST SITE. 6225	21.0	N	148271
51	239m SW	325560 367650	WARED WOOD, O/C SITE. 14	10.67	N	147505
52	240m SW	325270 367970	GOLF COURSE, NORTHOP 7	5.5	N	15044504
53	242m E	326190 371190	SHALLOW SHAFT OR BELL PIT	-2.0	N	150985
54	246m NW	325290 368280	NORTHOP BY-PASS. 34	8.0	N	147008
55	248m NE	326180 371240	BELL PITS	-2.0	N	150931

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



17.1 Shrink swell clays

Records within 50m

3

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 134**

Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.
On site	Very low	Ground conditions predominantly low plasticity.
6m N	Negligible	Ground conditions predominantly non-plastic.

This data is sourced from the British Geological Survey.

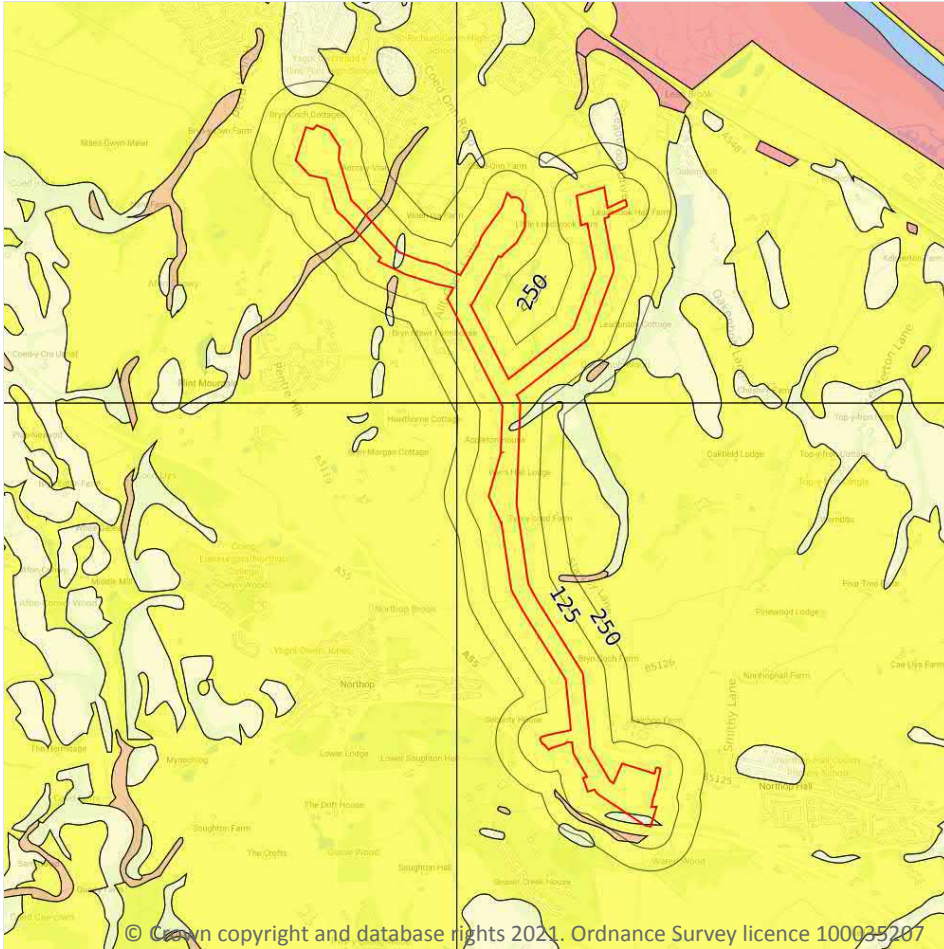


Contact us with any questions at:


08444 159 000

Date: 30 July 2021

Natural ground subsidence - Running sands



17.2 Running sands

Records within 50m

4

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 136**

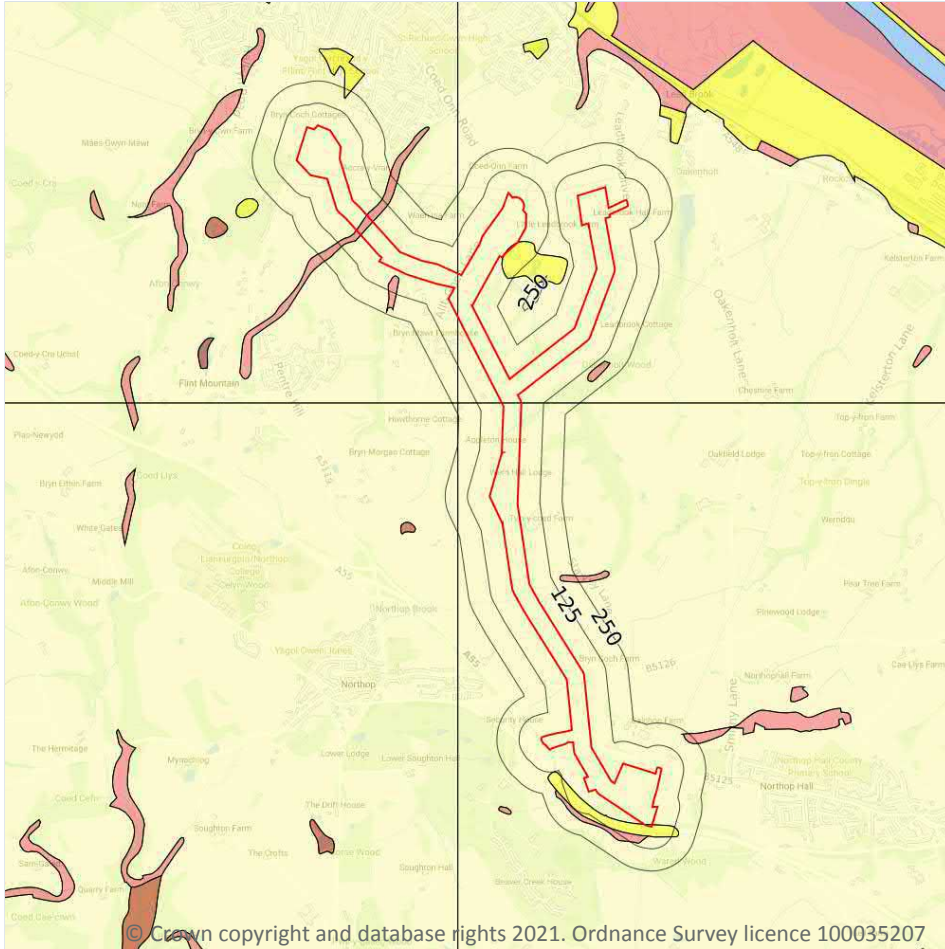
Location	Hazard rating	Details
On site	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.
On site	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.
34m SW	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



17.3 Compressible deposits

Records within 50m

4

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 138**

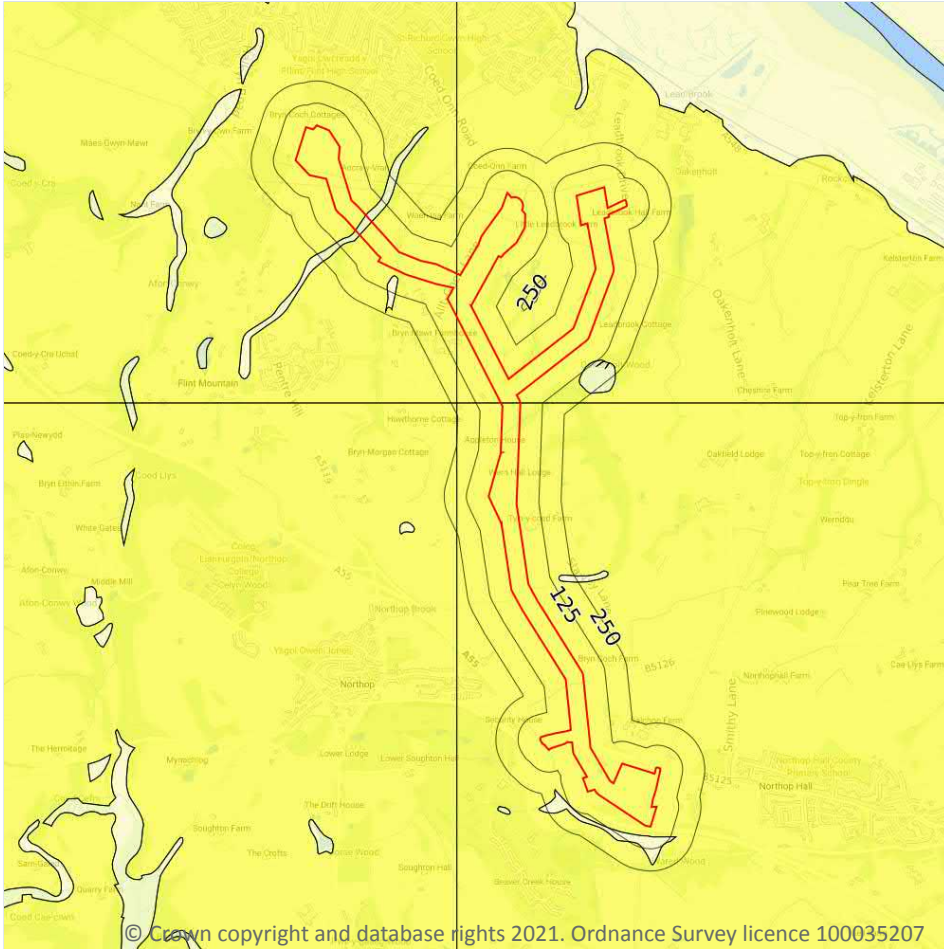
Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.
On site	Very low	Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses.

Location	Hazard rating	Details
On site	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.
34m SW	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



17.4 Collapsible deposits

Records within 50m

3

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 140**

Location	Hazard rating	Details
On site	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.
34m SW	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.

This data is sourced from the British Geological Survey.

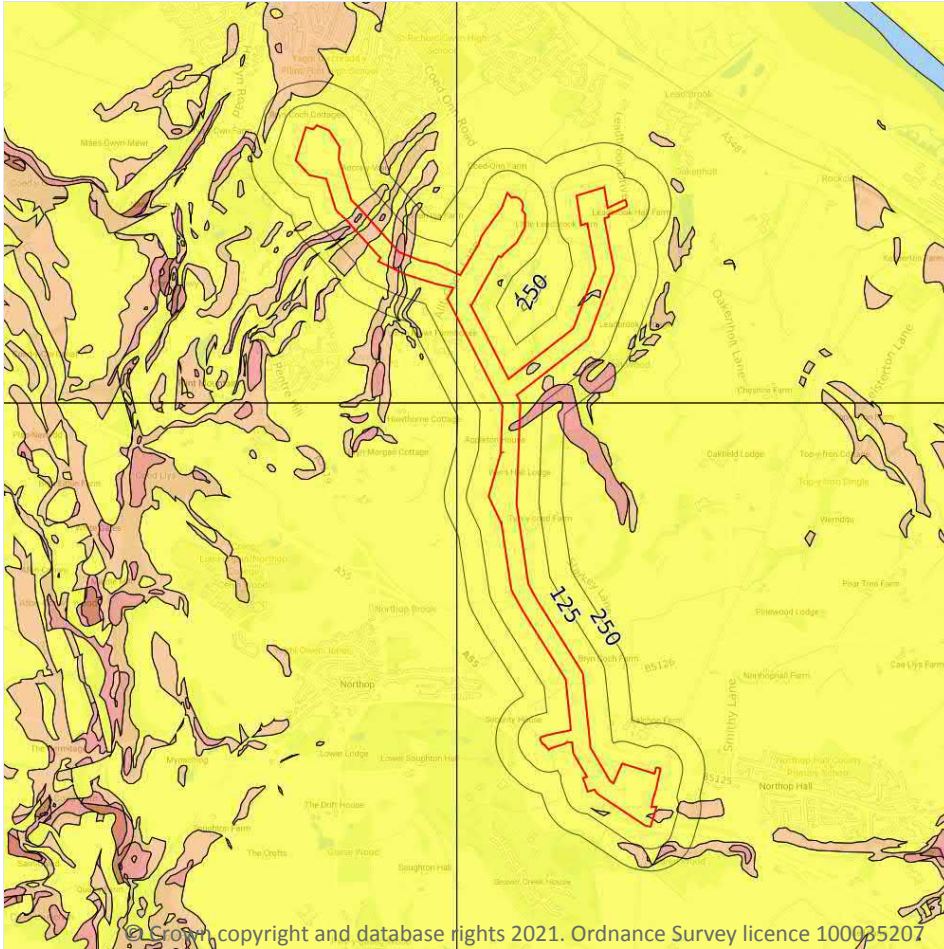


Contact us with any questions at:


08444 159 000

Date: 30 July 2021

Natural ground subsidence - Landslides



— Site Outline
Search buffers in metres (m)

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

17.5 Landslides

Records within 50m

7

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 142**

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.

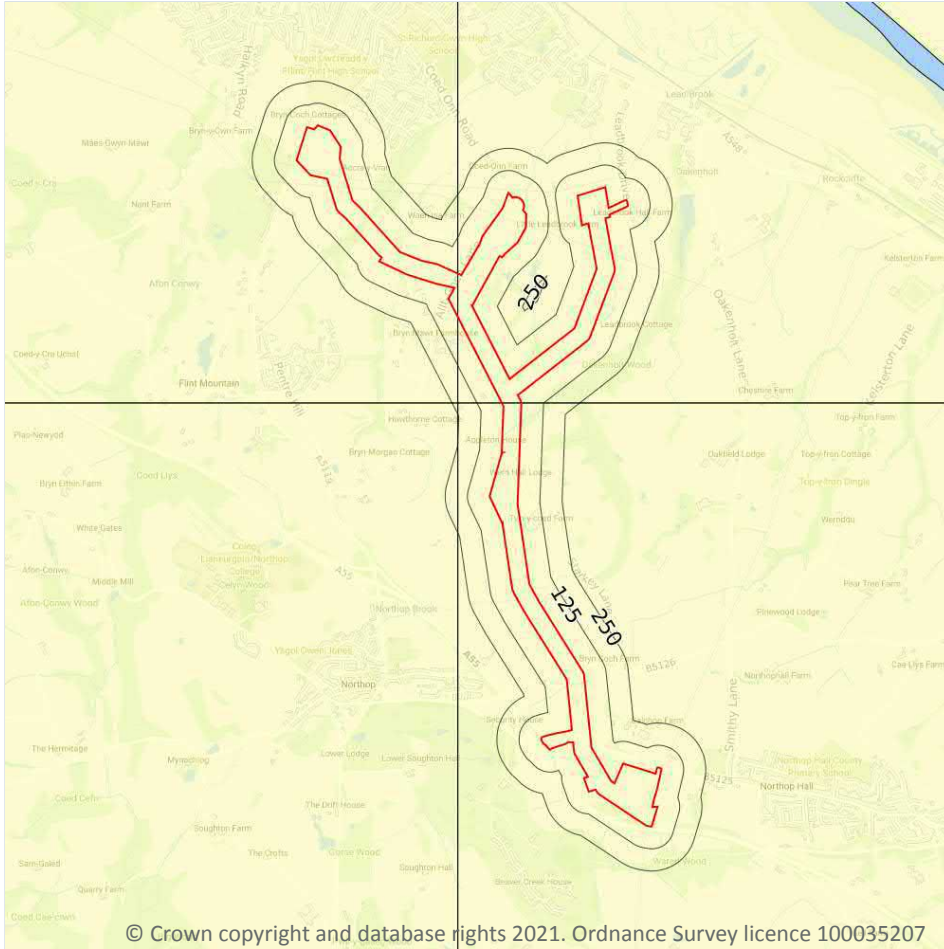


Location	Hazard rating	Details
On site	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
On site	Moderate	Slope instability problems are probably present or have occurred in the past. Land use should consider specifically the stability of the site.
10m SW	Moderate	Slope instability problems are probably present or have occurred in the past. Land use should consider specifically the stability of the site.
20m SE	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
38m NE	Moderate	Slope instability problems are probably present or have occurred in the past. Land use should consider specifically the stability of the site.
47m S	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



— Site Outline
Search buffers in metres (m)

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

17.6 Ground dissolution of soluble rocks

Records within 50m

1

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


Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 144**

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

This data is sourced from the British Geological Survey.

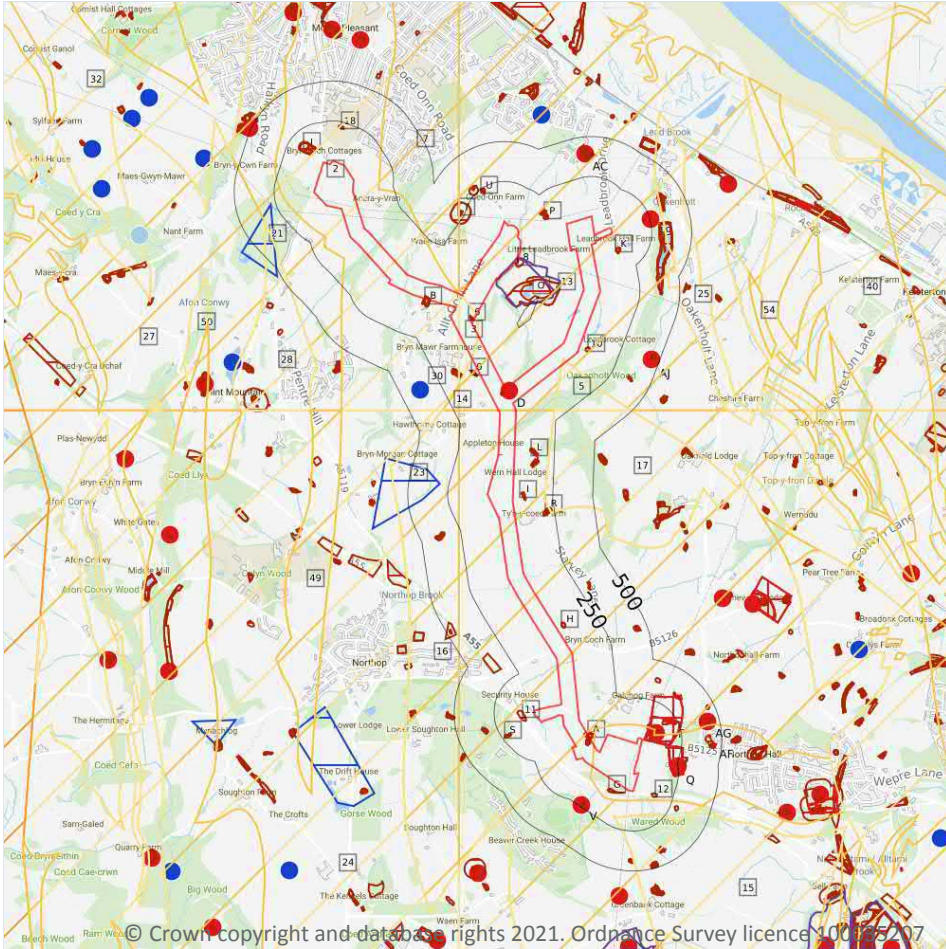


Contact us with any questions at:


08444 159 000

Date: 30 July 2021

18 Mining, ground workings and natural cavities



18.1 Natural cavities

Records within 500m

3

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.

Features are displayed on the Mining, ground workings and natural cavities map on **page 146**

ID	Location	Details	Source
21	282m W	Type: Swallow Hole x 5 Superficial Geology: - Bedrock Geology: Carboniferous Limestone Supergroup, Lower Coal Measures, Middle Coal Measures, Millstone Grit Group, Upper Carboniferous Limestone	Simple Bibliography: British Geological Survey Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely
23	306m W	Type: Swallow Hole x 7 Superficial Geology: - Bedrock Geology: Carboniferous Limestone Supergroup, Lower Coal Measures, Middle Coal Measures, Millstone Grit Group, Upper Carboniferous Limestone	Simple Bibliography: British Geological Survey Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely
30	375m SW	Type: Swallow Hole x 1 Superficial Geology: - Bedrock Geology: Carboniferous Limestone Supergroup, Lower Coal Measures, Middle Coal Measures, Millstone Grit Group, Upper Carboniferous Limestone	Simple Bibliography: British Geological Survey Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely

This data is sourced from Stantec UK Ltd.

18.2 BritPits

Records within 500m

10

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.

Features are displayed on the Mining, ground workings and natural cavities map on **page 146**

ID	Location	Details	Description
D	On site	Name: Tros-y-mynydd Address: Northop, MOLD, Flintshire Commodity: Sand Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority



ID	Location	Details	Description
E	101m NE	Name: Boar's Head Farm Address: Connah's Quay, CONNAH'S QUAY, Flintshire Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
F	210m NE	Name: Boar's Head Farm Address: Connah's Quay, CONNAH'S QUAY, Flintshire Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
V	235m SW	Name: Wared Wood Quarry Address: Northrop, CONNAH'S QUAY, Flintshire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
Q	253m E	Name: Boar's Head Farm Address: Connah's Quay, CONNAH'S QUAY, Flintshire Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
19	253m E	Name: Leadbrook Hall Address: Oakenholt, FLINT, Flintshire Commodity: Coal, Surface Mined Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority



ID	Location	Details	Description
AC	392m N	Name: Quarry Farm Address: Oakenholt Mill, FLINT, Flintshire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
AG	427m E	Name: Boar's Head Farm Address: Connah's Quay, CONNAH'S QUAY, Flintshire Commodity: Coal, Deep Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
AF	436m E	Name: Northophall Cottages Address: Connah's Quay, CONNAH'S QUAY, Flintshire Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
AJ	450m E	Name: Oakenholt Wood Address: Flint Mountain, CONNAH'S QUAY, Flintshire Commodity: Sandstone Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m	131
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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 146**

ID	Location	Land Use	Year of mapping	Mapping scale
6	On site	Unspecified Pit	1871	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
A	On site	Ponds	1991	1:10000
A	On site	Ponds	1987	1:10000
A	On site	Ponds	1981	1:10000
A	On site	Ponds	1970	1:10560
B	On site	Unspecified Pit	1938	1:10560
B	On site	Sand Pit	1871	1:10560
B	On site	Unspecified Pit	1938	1:10560
B	On site	Unspecified Pit	1959	1:10560
B	On site	Unspecified Pit	1948	1:10560
B	On site	Unspecified Ground Workings	1909	1:10560
D	On site	Sand Pit	1948	1:10560
D	On site	Sand Pit	1914	1:10560
8	7m SE	Pond	1953	1:10560
E	15m E	Colliery	1869	1:10560
9	18m SW	Ponds	1898	1:10560
F	21m E	Disused Colliery	1898	1:10560
G	36m SW	Unspecified Pit	1960	1:10560
H	38m NE	Pond	1991	1:10000
H	38m NE	Pond	1987	1:10000
10	41m E	Sand Pit	1871	1:10560
G	51m SW	Unspecified Ground Workings	1970	1:10560
I	53m E	Pond	1970	1:10560
I	54m E	Pond	1991	1:10000
I	54m E	Pond	1987	1:10000
I	54m E	Pond	1981	1:10000
11	59m SW	Unspecified Heap	1991	1:10000
E	68m NE	Unspecified Heap	1869	1:10560
E	71m NE	Ponds	1869	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
E	76m NE	Ponds	1948	1:10560
E	76m NE	Ponds	1898	1:10560
E	76m NE	Ponds	1938	1:10560
E	78m NE	Ponds	1960	1:10560
E	78m NE	Ponds	1970	1:10560
E	79m NE	Pond	1987	1:10000
E	79m NE	Pond	1981	1:10000
E	80m NE	Pond	1991	1:10000
J	87m NW	Unspecified Heap	1992	1:10000
J	87m NW	Unspecified Heap	1969	1:10560
J	87m NW	Unspecified Heap	1981	1:10000
E	88m NE	Unspecified Heap	1938	1:10560
E	88m NE	Unspecified Heap	1938	1:10560
E	89m E	Unspecified Heap	1948	1:10560
E	89m E	Unspecified Heap	1910	1:10560
E	90m E	Unspecified Pit	1960	1:10560
J	91m NW	Unspecified Heap	1909	1:10560
J	93m NW	Unspecified Heap	1959	1:10560
J	93m NW	Unspecified Heap	1938	1:10560
J	93m NW	Unspecified Heap	1938	1:10560
E	93m E	Unspecified Heap	1970	1:10560
J	94m NW	Unspecified Heap	1948	1:10560
K	97m SE	Pond	1938	1:10560
L	99m E	Ponds	1991	1:10000
L	99m E	Ponds	1987	1:10000
L	99m E	Ponds	1981	1:10000
L	99m E	Ponds	1970	1:10560
L	100m E	Ponds	1948	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
L	100m E	Ponds	1898	1:10560
M	101m SW	Ponds	1871	1:10560
K	102m SE	Pond	1953	1:10560
M	106m SW	Ponds	1948	1:10560
J	106m NW	Unspecified Heap	1871	1:10560
M	107m SW	Ponds	1938	1:10560
N	107m E	Ponds	1948	1:10560
N	107m E	Ponds	1898	1:10560
N	108m E	Pond	1991	1:10000
N	108m E	Pond	1987	1:10000
N	108m E	Pond	1981	1:10000
M	110m SW	Ponds	1898	1:10560
O	110m SE	Unspecified Ground Workings	1981	1:10000
O	110m SE	Unspecified Ground Workings	1969	1:10560
L	110m E	Ponds	1871	1:10560
N	113m E	Pond	1970	1:10560
M	115m SW	Ponds	1992	1:10000
M	115m SW	Ponds	1969	1:10560
M	115m SW	Ponds	1981	1:10000
M	115m SW	Ponds	1959	1:10560
12	115m E	Unspecified Heap	1970	1:10560
P	122m W	Ponds	1938	1:10560
P	123m W	Ponds	1898	1:10560
O	124m SE	Old Sand Pit	1953	1:10560
P	124m W	Ponds	1938	1:10560
P	125m W	Ponds	1981	1:10000
P	125m W	Ponds	1969	1:10560
P	125m W	Ponds	1953	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
P	130m W	Ponds	1948	1:10560
P	130m W	Ponds	1898	1:10560
J	136m NW	Unspecified Heap	1898	1:10560
C	142m SE	Sand Pit	1871	1:10560
13	146m W	Sand Pit	1871	1:10560
F	161m NE	Unspecified Heap	1869	1:10560
Q	171m E	Colliery	1948	1:10560
Q	171m E	Colliery	1898	1:10560
Q	173m E	Colliery	1938	1:10560
Q	173m E	Colliery	1938	1:10560
Q	175m E	Colliery	1910	1:10560
R	179m E	Ponds	1991	1:10000
R	179m E	Ponds	1987	1:10000
R	179m E	Ponds	1981	1:10000
R	181m E	Ponds	1948	1:10560
R	181m E	Ponds	1898	1:10560
R	181m E	Ponds	1970	1:10560
F	183m NE	Unspecified Heap	1938	1:10560
F	183m NE	Unspecified Heap	1938	1:10560
R	183m E	Ponds	1960	1:10560
S	191m SW	Ponds	1987	1:10000
S	191m SW	Ponds	1981	1:10000
F	203m NE	Unspecified Heap	1938	1:10560
F	203m NE	Unspecified Heap	1938	1:10560
F	204m NE	Unspecified Heap	1910	1:10560
F	204m NE	Unspecified Heap	1948	1:10560
18	207m N	Pond	1959	1:10560
F	208m NE	Unspecified Heap	1970	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
F	208m NE	Unspecified Heap	1898	1:10560
F	208m NE	Unspecified Heap	1987	1:10000
F	208m NE	Unspecified Heap	1981	1:10000
F	209m NE	Unspecified Heap	1991	1:10000
F	213m NE	Unspecified Heap	1960	1:10560
T	214m W	Filter Bed	1953	1:10560
U	214m NW	Unspecified Pit	1981	1:10000
U	214m NW	Unspecified Pit	1969	1:10560
V	214m SW	Unspecified Pit	1871	1:10560
Q	216m E	Unspecified Ground Workings	1970	1:10560
Q	216m E	Unspecified Ground Workings	1910	1:10560
T	217m W	Filter Bed	1948	1:10560
Q	217m E	Unspecified Heap	1938	1:10560
Q	217m E	Unspecified Heap	1938	1:10560
U	218m NW	Unspecified Heap	1871	1:10560
Q	219m E	Unspecified Ground Workings	1948	1:10560
Q	238m E	Unspecified Heap	1898	1:10560
W	245m NW	Covered Reservoir	1948	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m	51
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Historical land uses identified from Ordnance Survey mapping that indicate the presence of underground workings e.g. mine shafts.

Features are displayed on the Mining, ground workings and natural cavities map on **page 146**

ID	Location	Land Use	Year of mapping	Mapping scale
E	15m E	Colliery	1869	1:10560
F	21m E	Disused Colliery	1898	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
E	87m E	Unspecified Shaft	1869	1:10560
E	96m E	Unspecified Old Shaft	1960	1:10560
E	96m E	Unspecified Old Shaft	1970	1:10560
E	96m E	Old Coal Shaft	1948	1:10560
Q	171m E	Colliery	1948	1:10560
Q	171m E	Colliery	1898	1:10560
F	182m NE	Unspecified Old Shafts	1898	1:10560
F	187m NE	Unspecified Shafts	1869	1:10560
F	190m NE	Old Coal Shafts	1948	1:10560
F	191m NE	Unspecified Old Shafts	1960	1:10560
F	191m NE	Unspecified Old Shafts	1970	1:10560
F	191m NE	Unspecified Disused Shafts	1987	1:10000
F	191m NE	Unspecified Disused Shafts	1981	1:10000
F	195m NE	Unspecified Old Shafts	1898	1:10560
F	195m NE	Unspecified Disused Shafts	1991	1:10000
F	201m NE	Unspecified Shafts	1869	1:10560
F	210m NE	Old Coal Shafts	1948	1:10560
F	210m NE	Unspecified Old Shafts	1970	1:10560
F	211m NE	Unspecified Disused Shafts	1987	1:10000
F	211m NE	Unspecified Disused Shafts	1981	1:10000
F	211m NE	Unspecified Old Shafts	1960	1:10560
F	215m NE	Unspecified Disused Shafts	1991	1:10000
Q	216m E	Unspecified Disused Mine	1960	1:10560
Q	250m E	Unspecified Disused Shaft	1970	1:10560
AG	411m E	Old Coal Shaft	1948	1:10560
AG	411m E	Unspecified Old Shaft	1898	1:10560
AG	413m E	Unspecified Old Shaft	1960	1:10560
AG	413m E	Unspecified Old Shaft	1970	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
AG	416m E	Unspecified Disused Shaft	1987	1:10000
AG	416m E	Unspecified Disused Shaft	1981	1:10000
AF	418m E	Old Coal Shaft	1948	1:10560
AF	418m E	Unspecified Old Shaft	1898	1:10560
AF	421m E	Unspecified Old Shaft	1960	1:10560
BC	652m S	Old Coal Shaft	1948	1:10560
BC	652m S	Unspecified Old Shaft	1898	1:10560
BC	655m S	Unspecified Old Shaft	1960	1:10560
BN	756m NE	Coal Shaft	1869	1:10560
BN	766m E	Disused Coal Pit	1938	1:10560
BN	767m E	Disused Coal Pit	1948	1:10560
BN	768m E	Disused Coal Pit	1909	1:10560
BN	773m E	Unspecified Old Shaft	1938	1:10560
BN	773m E	Coal Pit	1898	1:10560
BN	774m E	Unspecified Old Shaft	1948	1:10560
BN	776m E	Unspecified Old Shaft	1909	1:10560
BN	777m E	Coal Pit	1898	1:10560
BO	820m N	Unspecified Old Shaft	1898	1:10560
BZ	946m N	Unspecified Old Shaft	1948	1:10560
BZ	953m N	Unspecified Old Shaft	1898	1:10560
BT	988m S	Unspecified Old Shaft	1898	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m

1

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.

Features are displayed on the Mining, ground workings and natural cavities map on **page 146**



ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
C	On site	Little Leadbrook Farm	Sand and gravel	Surface mineral working	Valid	Not available

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m	21
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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 146**

ID	Location	Name	Commodity	Class	Likelihood
1	On site	Not available	Iron Ore (Bedded)	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	On site	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
3	On site	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
4	On site	Not available	Iron Ore (Bedded)	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
5	On site	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
7	3m NE	Not available	Iron Ore (Bedded)	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



ID	Location	Name	Commodity	Class	Likelihood
14	148m SW	Not available	Iron Ore (Bedded)	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
15	153m S	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
16	179m W	Not available	Iron Ore (Bedded)	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
17	195m SE	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
24	314m 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
25	331m E	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
27	358m SW	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
28	359m 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
32	568m W	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
34	599m 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



ID	Location	Name	Commodity	Class	Likelihood
40	710m E	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
47	818m NW	Not available	Iron Ore (Bedded)	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
49	847m SW	Not available	Iron Ore (Bedded)	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
50	858m 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
54	896m E	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

1

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



Location	Details
On site	In addition to being located inside an area where The Coal Authority have information on coal mining activities, Johnson Poole & Bloomer (JPB) have information such as mining plans and maps held within their archive of mining activities that have occurred within 1km of this property which may supplement this information. Please note, the plans held by JPB may also relate to non-mining records. Further details and a quote for services (if appropriate) can be obtained by emailing this report to enquiries.gs@jpb.co.uk.

This data is sourced from Johnson Poole and Bloomer.

18.9 Coal mining

Records on site	1
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Areas which could be affected by past, current or future coal mining.

Location	Details
On site	The site is located within a coal mining area as defined by the Coal Authority. A Consultants Coal Mining Report is recommended to further assess coal mining issues at the site. This can be ordered directly through Groundsure or your preferred search provider.

This data is sourced from the Coal Authority.

18.10 Brine areas

Records on site	0
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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
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Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.



18.12 Tin mining

Records on site

0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Mining Searches UK.

18.13 Clay mining

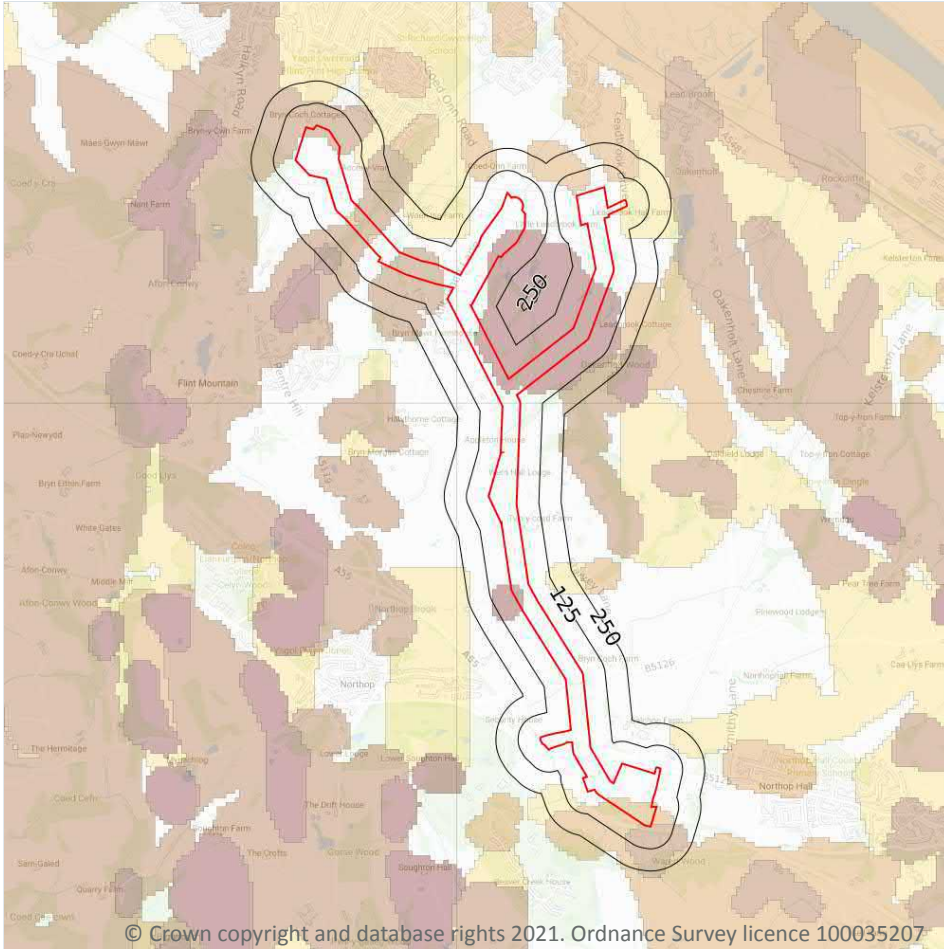
Records on site

0

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%

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19.1 Radon

Records on site

5

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 162**

Location	Estimated properties affected	Radon Protection Measures required
On site	Between 5% and 10%	Basic
On site	Between 1% and 3%	None



Contact us with any questions at:

08444 159 000

Date: 30 July 2021

Location	Estimated properties affected	Radon Protection Measures required
On site	Less than 1%	None**
On site	Between 10% and 30%	Full
On site	Greater than 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

99

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	25 - 35 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	300 - 600 mg/kg	240 - 360 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
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On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	300 - 600 mg/kg	240 - 360 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	300 - 600 mg/kg	240 - 360 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	300 - 600 mg/kg	240 - 360 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	300 - 600 mg/kg	240 - 360 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	300 - 600 mg/kg	240 - 360 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
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On site	15 mg/kg	No data	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	300 - 600 mg/kg	240 - 360 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	300 - 600 mg/kg	240 - 360 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	300 - 600 mg/kg	240 - 360 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	300 - 600 mg/kg	240 - 360 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	300 - 600 mg/kg	240 - 360 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	300 - 600 mg/kg	240 - 360 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	300 - 600 mg/kg	240 - 360 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 mg/kg	No data	300 - 600 mg/kg	240 - 360 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 mg/kg	No data	300 - 600 mg/kg	240 - 360 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	300 - 600 mg/kg	240 - 360 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	300 - 600 mg/kg	240 - 360 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	300 - 600 mg/kg	240 - 360 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 mg/kg	No data	300 - 600 mg/kg	240 - 360 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	300 - 600 mg/kg	240 - 360 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	300 - 600 mg/kg	240 - 360 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
3m N	15 mg/kg	No data	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
3m N	15 mg/kg	No data	300 - 600 mg/kg	240 - 360 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
5m S	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
5m S	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
6m NW	15 mg/kg	No data	300 - 600 mg/kg	240 - 360 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
20m NW	15 mg/kg	No data	300 - 600 mg/kg	240 - 360 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
21m NE	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
22m N	25 - 35 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
23m S	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
24m S	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
24m S	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
24m S	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
24m S	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
27m NW	15 mg/kg	No data	300 - 600 mg/kg	240 - 360 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
28m NW	15 mg/kg	No data	300 - 600 mg/kg	240 - 360 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
28m NE	15 mg/kg	No data	300 - 600 mg/kg	240 - 360 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
31m S	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
31m S	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
31m NE	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
34m S	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
34m NW	15 mg/kg	No data	300 - 600 mg/kg	240 - 360 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
36m NE	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
40m NW	15 mg/kg	No data	300 - 600 mg/kg	240 - 360 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
42m NW	15 mg/kg	No data	300 - 600 mg/kg	240 - 360 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
42m NE	15 mg/kg	No data	300 - 600 mg/kg	240 - 360 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
44m NW	15 mg/kg	No data	300 - 600 mg/kg	240 - 360 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
50m S	15 mg/kg	No data	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
50m S	15 mg/kg	No data	200 - 300 mg/kg	120 - 240 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
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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
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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
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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
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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
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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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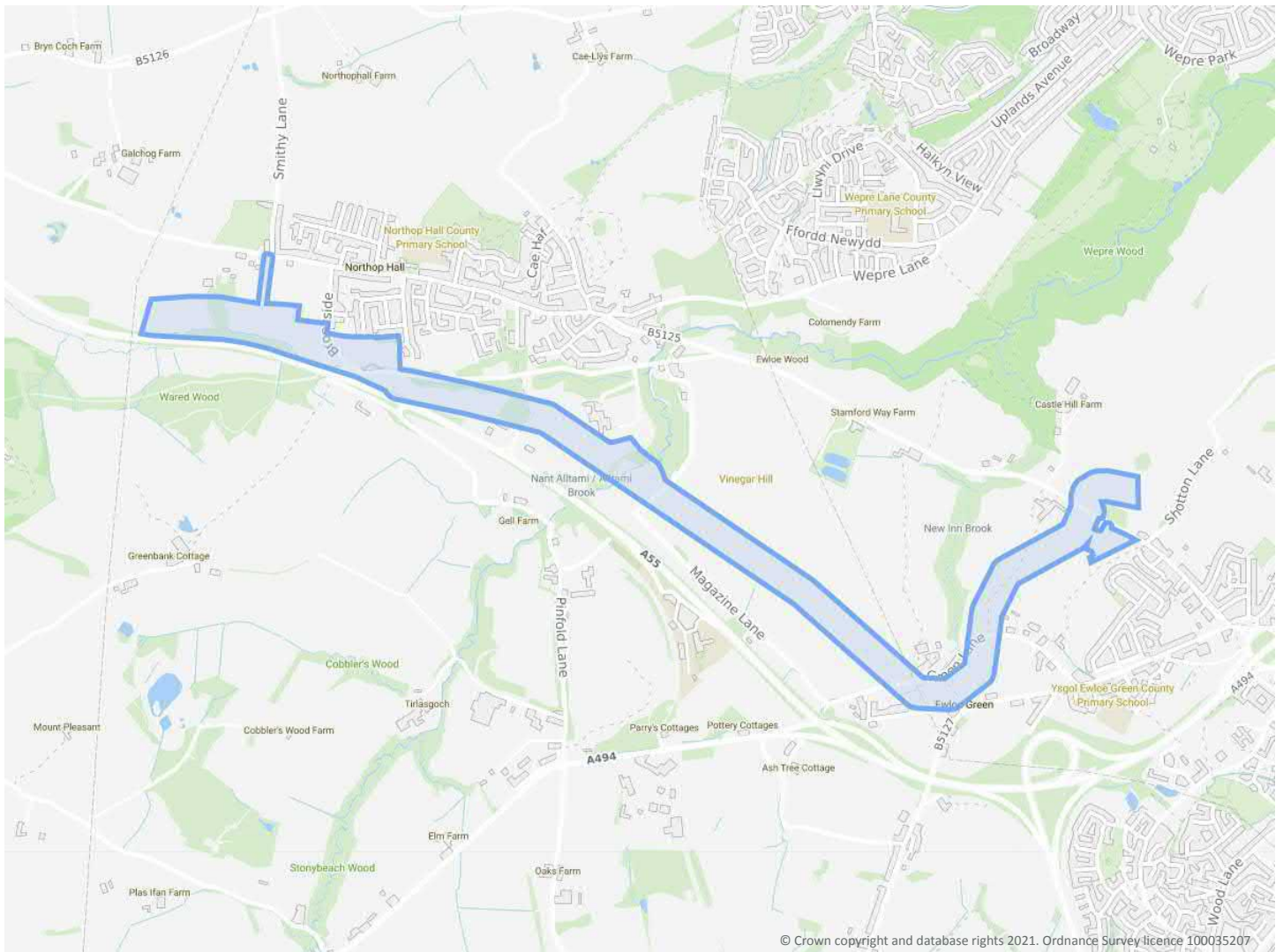
DCO Pipeline, Southern Route

Order Details

Date: 30/07/2021
Your ref: DCO Pipeline, Southern Route
Our Ref: GSIP-2021-10877-7381_B
Client: WSP UK LIMITED

Site Details

Location: 328108 367167
Area: 45.12 ha
Authority: [Sir y Fflint - Flintshire County Council](#)



Summary of findings

p. 2

Aerial image

p. 8

OS MasterMap site plan

N/A: >10ha

groundsure.com/insightuserguide

Contact us with any questions at:

08444 159 000

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
13	1.1	Historical industrial land uses	34	19	167	172	-
28	1.2	Historical tanks	1	0	7	6	-
28	1.3	Historical energy features	0	1	8	8	-
29	1.4	Historical petrol stations	0	1	2	0	-
30	1.5	Historical garages	0	1	2	2	-
30	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
31	2.1	Historical industrial land uses	39	23	218	218	-
49	2.2	Historical tanks	1	0	15	8	-
51	2.3	Historical energy features	0	4	22	16	-
52	2.4	Historical petrol stations	0	4	2	0	-
53	2.5	Historical garages	0	2	4	7	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
54	3.1	Active or recent landfill	0	0	0	1	-
55	3.2	Historical landfill (BGS records)	0	0	0	0	-
55	3.3	Historical landfill (LA/mapping records)	0	0	0	1	-
55	3.4	Historical landfill (EA/NRW records)	1	0	0	3	-
56	3.5	Historical waste sites	0	0	0	0	-
56	3.6	Licensed waste sites	0	0	0	0	-
57	3.7	Waste exemptions	0	0	30	5	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
61	4.1	Recent industrial land uses	3	3	20	-	-
63	4.2	Current or recent petrol stations	0	1	2	1	-
63	4.3	Electricity cables	0	0	0	0	-
64	4.4	Gas pipelines	0	0	0	0	-
64	4.5	Sites determined as Contaminated Land	0	0	0	0	-



64	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
64	4.7	Regulated explosive sites	0	0	0	0	-
64	4.8	Hazardous substance storage/usage	0	0	0	0	-
65	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
65	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
65	4.11	<u>Licensed pollutant release (Part A(2)/B)</u>	0	0	2	4	-
66	4.12	Radioactive Substance Authorisations	0	0	0	0	-
66	4.13	<u>Licensed Discharges to controlled waters</u>	3	0	4	17	-
70	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
70	4.15	Pollutant release to public sewer	0	0	0	0	-
70	4.16	List 1 Dangerous Substances	0	0	0	0	-
70	4.17	List 2 Dangerous Substances	0	0	0	0	-
70	4.18	<u>Pollution Incidents (EA/NRW)</u>	2	2	10	18	-
74	4.19	Pollution inventory substances	0	0	0	0	-
74	4.20	Pollution inventory waste transfers	0	0	0	0	-
74	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
75	5.1	<u>Superficial aquifer</u>	Identified (within 500m)				
77	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
79	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
82	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
83	5.5	Groundwater vulnerability- local information	None (within 0m)				
84	5.6	<u>Groundwater abstractions</u>	0	0	2	0	1
85	5.7	<u>Surface water abstractions</u>	0	0	0	0	1
86	5.8	<u>Potable abstractions</u>	0	0	2	0	0
87	5.9	Source Protection Zones	0	0	0	0	-
87	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
88	6.1	<u>Water Network (OS MasterMap)</u>	11	12	26	-	-



92	6.2	<u>Surface water features</u>	1	7	25	-	-
93	6.3	<u>WFD Surface water body catchments</u>	2	-	-	-	-
93	6.4	<u>WFD Surface water bodies</u>	1	0	0	-	-
94	6.5	<u>WFD Groundwater bodies</u>	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
95	7.1	<u>Risk of Flooding from Rivers and Sea (RoFRaS)</u>	High (within 50m)				
96	7.2	<u>Historical Flood Events</u>	0	1	0	-	-
96	7.3	Flood Defences	0	0	0	-	-
96	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
97	7.5	Flood Storage Areas	0	0	0	-	-
98	7.6	<u>Flood Zone 2</u>	Identified (within 50m)				
99	7.7	<u>Flood Zone 3</u>	Identified (within 50m)				
Page	Section	Surface water flooding					
100	8.1	<u>Surface water flooding</u>	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	Groundwater flooding					
102	9.1	<u>Groundwater flooding</u>	Moderate (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
103	10.1	<u>Sites of Special Scientific Interest (SSSI)</u>	0	1	1	1	19
104	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
105	10.3	<u>Special Areas of Conservation (SAC)</u>	0	1	1	1	17
110	10.4	Special Protection Areas (SPA)	0	0	0	0	0
110	10.5	National Nature Reserves (NNR)	0	0	0	0	0
110	10.6	<u>Local Nature Reserves (LNR)</u>	0	0	0	0	2
111	10.7	<u>Designated Ancient Woodland</u>	2	4	11	14	76
115	10.8	Biosphere Reserves	0	0	0	0	0
115	10.9	Forest Parks	0	0	0	0	0
115	10.10	Marine Conservation Zones	0	0	0	0	0
116	10.11	Green Belt	0	0	0	0	0
116	10.12	Proposed Ramsar sites	0	0	0	0	0



116	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
116	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
116	10.15	Nitrate Sensitive Areas	0	0	0	0	0
117	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
118	10.17	<u>SSSI Impact Risk Zones</u>	1	-	-	-	-
119	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
120	11.1	World Heritage Sites	0	0	0	-	-
121	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
121	11.3	National Parks	0	0	0	-	-
121	11.4	<u>Listed Buildings</u>	0	0	6	-	-
122	11.5	Conservation Areas	0	0	0	-	-
122	11.6	Scheduled Ancient Monuments	0	0	0	-	-
122	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
123	12.1	<u>Agricultural Land Classification</u>	Grade 3b (within 250m)				
124	12.2	Open Access Land	0	0	0	-	-
124	12.3	Tree Felling Licences	0	0	0	-	-
124	12.4	Environmental Stewardship Schemes	0	0	0	-	-
125	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
126	13.1	Priority Habitat Inventory	0	0	0	-	-
126	13.2	Habitat Networks	0	0	0	-	-
126	13.3	Open Mosaic Habitat	0	0	0	-	-
126	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
127	14.1	<u>10k Availability</u>	Identified (within 500m)				
128	14.2	Artificial and made ground (10k)	0	0	0	0	-
129	14.3	Superficial geology (10k)	0	0	0	0	-

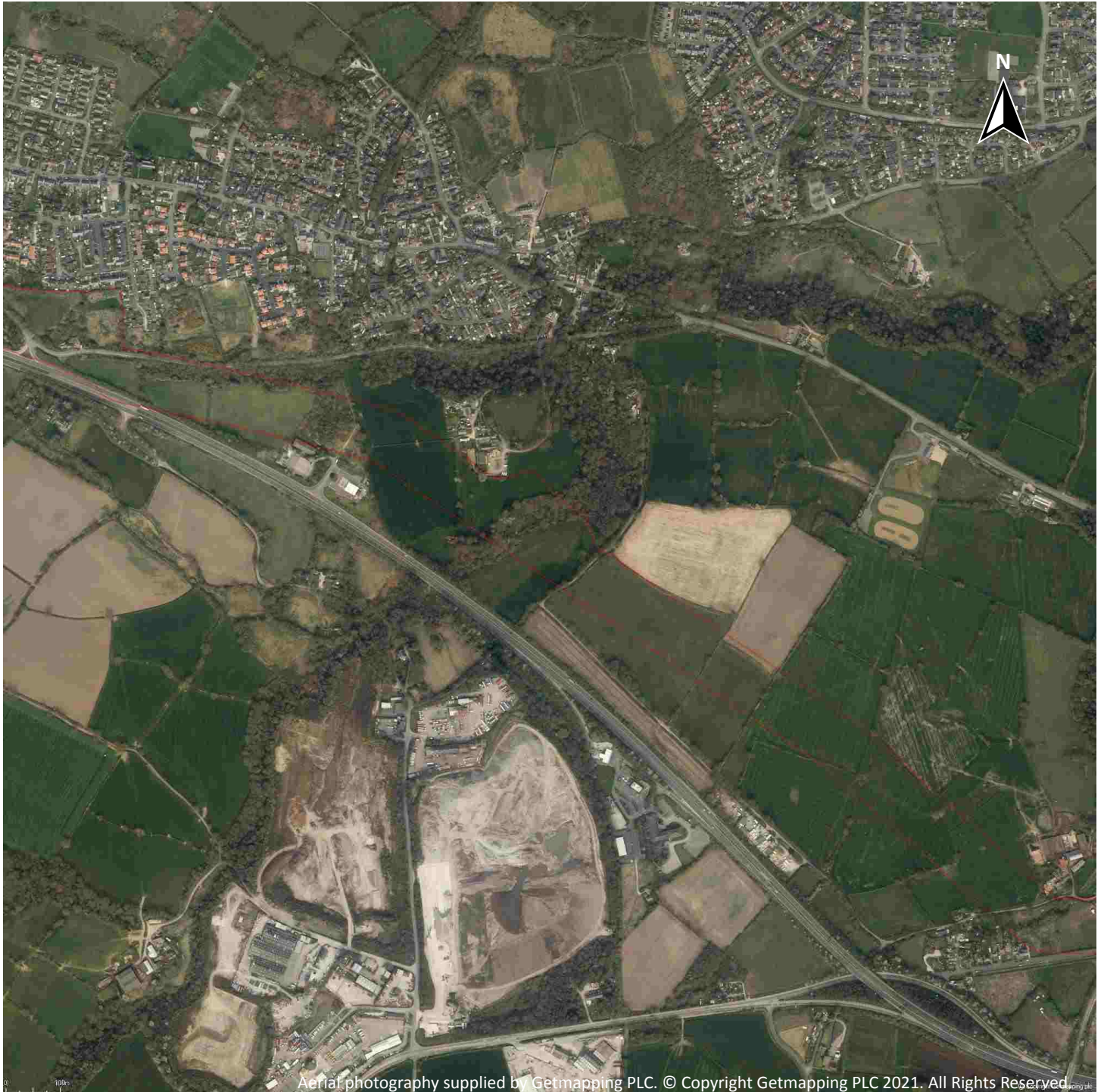


129	14.4	Landslip (10k)	0	0	0	0	-
130	14.5	Bedrock geology (10k)	0	0	0	0	-
130	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
131	15.1	50k Availability	Identified (within 500m)				
132	15.2	Artificial and made ground (50k)	1	0	4	5	-
133	15.3	Artificial ground permeability (50k)	1	0	-	-	-
134	15.4	Superficial geology (50k)	4	2	6	4	-
135	15.5	Superficial permeability (50k)	Identified (within 50m)				
136	15.6	Landslip (50k)	1	0	3	0	-
136	15.7	Landslip permeability (50k)	Identified (within 50m)				
137	15.8	Bedrock geology (50k)	22	5	12	17	-
141	15.9	Bedrock permeability (50k)	Identified (within 50m)				
141	15.10	Bedrock faults and other linear features (50k)	28	4	26	37	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
146	16.1	BGS Boreholes	17	15	131	-	-
Page	Section	Natural ground subsidence					
154	17.1	Shrink swell clays	Very low (within 50m)				
156	17.2	Running sands	Low (within 50m)				
158	17.3	Compressible deposits	Moderate (within 50m)				
160	17.4	Collapsible deposits	Very low (within 50m)				
161	17.5	Landslides	Moderate (within 50m)				
163	17.6	Ground dissolution of soluble rocks	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
165	18.1	Natural cavities	0	0	0	3	-
166	18.2	BritPits	0	2	7	16	-
171	18.3	Surface ground workings	28	27	129	-	-
178	18.4	Underground workings	5	2	35	25	108
185	18.5	Historical Mineral Planning Areas	0	0	2	2	-



185	18.6	<u>Non-coal mining</u>	5	0	1	2	7
187	18.7	Mining cavities	0	0	0	0	0
187	18.8	<u>JPB mining areas</u>	Identified (within 0m)				
188	18.9	<u>Coal mining</u>	Identified (within 0m)				
188	18.10	Brine areas	None (within 0m)				
188	18.11	Gypsum areas	None (within 0m)				
189	18.12	Tin mining	None (within 0m)				
189	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
190	19.1	<u>Radon</u>	Greater than 30% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
192	20.1	<u>BGS Estimated Background Soil Chemistry</u>	68	18	-	-	-
197	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
197	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
198	21.1	Underground railways (London)	0	0	0	-	-
198	21.2	Underground railways (Non-London)	0	0	0	-	-
199	21.3	Railway tunnels	0	0	0	-	-
199	21.4	<u>Historical railway and tunnel features</u>	2	0	18	-	-
200	21.5	Royal Mail tunnels	0	0	0	-	-
200	21.6	<u>Historical railways</u>	1	0	2	-	-
200	21.7	Railways	0	0	0	-	-
201	21.8	Crossrail 1	0	0	0	0	-
201	21.9	Crossrail 2	0	0	0	0	-
201	21.10	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 10/04/2020

Site Area: 45.12ha



Contact us with any questions at:

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Date: 30 July 2021

Recent site history - 2017 aerial photograph



Capture Date: 07/05/2017

Site Area: 45.12ha



Contact us with any questions at:

08444 159 000

Date: 30 July 2021

Recent site history - 2013 aerial photograph



Capture Date: 04/06/2013

Site Area: 45.12ha



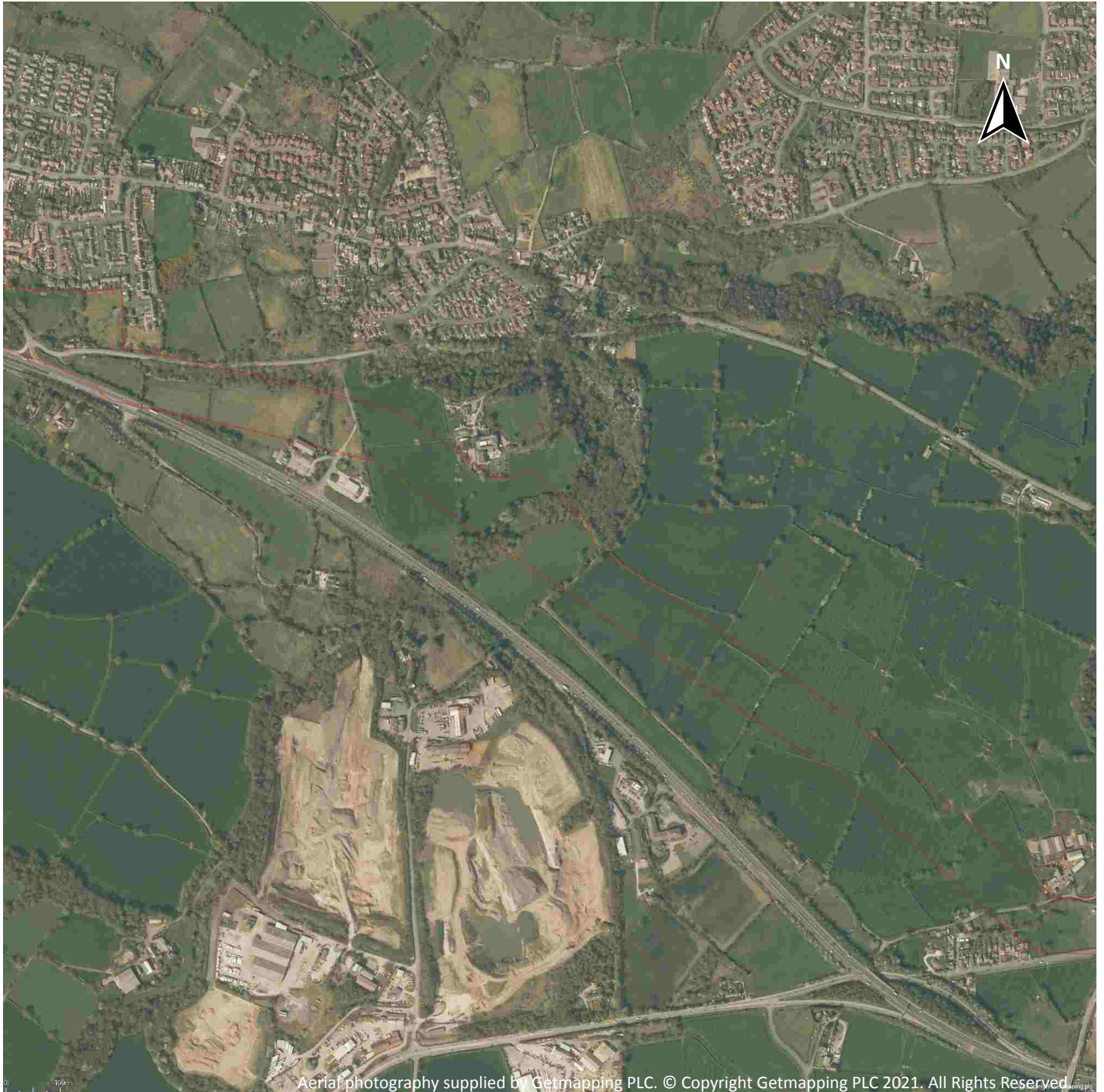
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Date: 30 July 2021



Recent site history - 2009 aerial photograph



Capture Date: 20/04/2009

Site Area: 45.12ha



Contact us with any questions at:

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Date: 30 July 2021

Recent site history - 2001 aerial photograph



Capture Date: 28/07/2001

Site Area: 45.12ha

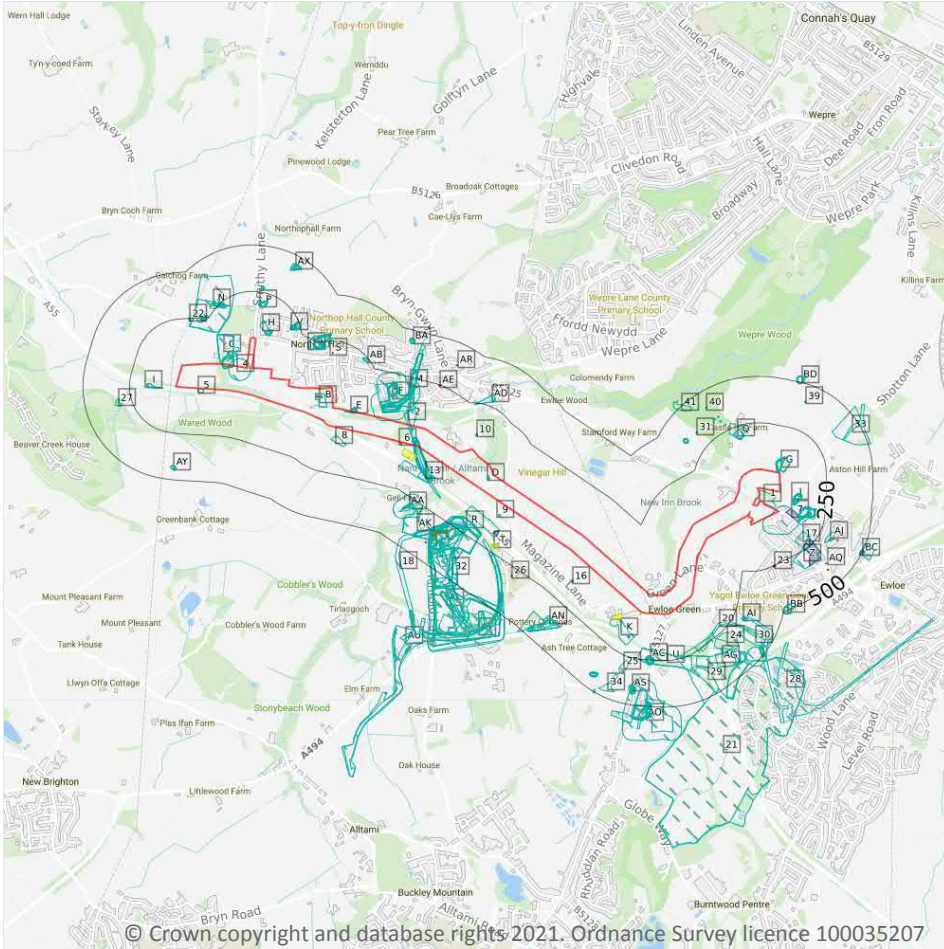


Contact us with any questions at:

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Date: 30 July 2021

1 Past land use



Site Outline

Search buffers in metres (m)

- ▨ Historical industrial land uses
- ▨ Historical tanks
- ▨ Historical energy features
- ▨ Historical petrol stations
- ▨ Historical garages

1.1 Historical industrial land uses

Records within 500m **392**

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 13**

ID	Location	Land use	Dates present	Group ID
1	On site	Unspecified Heap	1869	803592



ID	Location	Land use	Dates present	Group ID
2	On site	Unspecified Heap	1991	803594
3	On site	Old Colliery	1869	808568
4	On site	Magazine	1948	827271
A	On site	Cuttings	1948 - 1960	988517
A	On site	Cuttings	1898	943999
A	On site	Cuttings	1970	928642
A	On site	Cuttings	1981	916118
A	On site	Railway Sidings	1869	794520
A	On site	Unspecified Heap	1938	934914
A	On site	Cuttings	1910	853212
A	On site	Cuttings	1869	897984
B	On site	Unspecified Works	1970	877369
B	On site	Unspecified Tank	1970	879190
B	On site	Unspecified Tank	1960	933449
B	On site	Unspecified Tank	1960	965600
B	On site	Unspecified Tank	1970	916301
B	On site	Unspecified Works	1960	901891
C	On site	Colliery	1938	908735
C	On site	Colliery	1948	904263
C	On site	Unspecified Disused Mine	1960	810915
C	On site	Unspecified Ground Workings	1948	893610
C	On site	Unspecified Ground Workings	1910	917742
C	On site	Unspecified Heap	1938	918071
C	On site	Colliery	1898 - 1910	927848
C	On site	Unspecified Ground Workings	1970	967188
D	On site	Unspecified Disused Shafts	1991	835400
D	On site	Unspecified Disused Shafts	1991	835399
E	On site	Sand Pit	1869	797379



ID	Location	Land use	Dates present	Group ID
E	On site	Old Gravel Pit	1960	946740
E	On site	Old Gravel Pit	1938 - 1948	912603
E	On site	Old Gravel Pit	1910	911484
E	On site	Old Gravel Pit	1970	883458
F	On site	Colliery	1898	798231
5	1m S	Unspecified Heap	1970	803588
E	2m N	Old Gravel Pit	1898	885668
G	2m N	Unspecified Heap	1869	892215
G	3m N	Refuse Heap	1948	828558
G	5m N	Unspecified Heap	1938	937790
G	5m N	Unspecified Heap	1960	934185
G	7m N	Unspecified Ground Workings	1910	799525
C	21m N	Unspecified Heap	1898	856493
F	30m N	Disused Colliery	1938	989627
F	31m N	Disused Colliery	1948	942533
F	31m N	Unspecified Disused Mine	1960	810938
F	32m N	Disused Colliery	1910	967221
F	35m N	Unspecified Heap	1938	954461
F	36m N	Unspecified Heap	1970	885961
F	37m N	Unspecified Heap	1960	919653
F	38m N	Unspecified Heap	1910	907144
8	43m S	Cuttings	1991	795494
F	49m N	Unspecified Heap	1948	949435
F	49m N	Unspecified Heap	1898	986461
F	54m N	Railway Sidings	1938 - 1948	852769
F	56m N	Railway Sidings	1960	902140
9	57m SW	Chimney	1970 - 1991	884775
F	58m N	Railway Sidings	1910	899192



ID	Location	Land use	Dates present	Group ID
H	58m NE	Unspecified Heap	1869	974348
F	60m N	Railway Sidings	1898	924671
C	61m N	Unspecified Tank	1987	824094
C	61m N	Unspecified Disused Shaft	1970	812921
H	63m NE	Unspecified Heap	1938	913282
H	64m NE	Unspecified Heap	1898	923815
H	65m NE	Unspecified Heap	1910	937871
A	66m S	Unspecified Hole	1869	810981
I	73m W	Unspecified Pit	1960	839175
10	74m N	Unspecified Tank	1948	824112
F	78m N	Unspecified Shaft	1960	813706
F	80m N	Unspecified Tank	1938	824113
J	82m E	Unspecified Heap	1948	855660
J	82m E	Unspecified Heap	1869 - 1898	938035
J	83m E	Unspecified Heap	1910	968519
J	84m SE	Unspecified Heap	1981 - 1987	921811
J	84m SE	Unspecified Heap	1938	952847
13	87m SW	Cuttings	1991	863363
J	88m SE	Unspecified Heap	1960 - 1970	845985
14	91m S	Cuttings	1987	983960
F	93m N	Unspecified Shaft	1948	945864
F	94m N	Unspecified Shaft	1938	969495
F	94m N	Unspecified Shaft	1910	860037
H	98m NE	Old Coal Shaft	1938	864298
H	99m NE	Unspecified Old Shaft	1960	954704
H	99m NE	Unspecified Old Shaft	1898	927894
H	99m NE	Old Coal Shaft	1948	943523
H	100m NE	Old Coal Shaft	1910	962976



ID	Location	Land use	Dates present	Group ID
15	103m SW	Cuttings	1987 - 1991	877201
I	104m W	Unspecified Ground Workings	1970	799544
K	105m SW	Refuse Heap	1869 - 1898	848778
L	113m E	Unspecified Ground Workings	1910	910106
L	113m E	Unspecified Heap	1948	964776
L	114m E	Unspecified Heap	1970	986529
L	115m E	Unspecified Heap	1960	920641
16	116m SW	Magazine	1869	913435
L	116m E	Unspecified Ground Workings	1938	871383
L	117m E	Unspecified Heap	1869 - 1898	909143
L	118m SE	Garage	1981 - 1987	880213
F	124m N	Unspecified Heap	1970	949948
F	124m N	Unspecified Heap	1960	915597
F	124m N	Unspecified Heap	1938	901513
F	125m N	Unspecified Heap	1910	889019
F	135m N	Unspecified Heap	1948	912966
F	135m N	Unspecified Heap	1898	972930
M	140m N	Cuttings	1869	967302
K	144m SW	Old Coal Shafts	1948	836137
K	144m SW	Unspecified Old Shaft	1898	860586
K	148m SW	Unspecified Old Shaft	1960	917289
K	148m SW	Old Coal Shaft	1909 - 1938	845838
L	159m E	Unspecified Shaft	1898	813758
L	159m E	Unspecified Old Shaft	1948	847737
N	161m NW	Disused Colliery	1898	822314
L	163m E	Unspecified Old Shaft	1938	960245
L	163m E	Unspecified Old Shaft	1938	962641
L	164m E	Unspecified Old Shaft	1910	954465



ID	Location	Land use	Dates present	Group ID
O	166m NW	Colliery	1869	798233
F	168m N	Unspecified Old Shaft	1960	806216
F	168m N	Unspecified Disused Shaft	1970	812936
F	168m N	Old Coal Shaft	1910 - 1948	850159
L	168m E	Unspecified Old Shaft	1960	806211
17	170m SE	Garage	1970	901952
P	172m N	Unspecified Heap	1938	911100
P	172m N	Unspecified Heap	1910	983167
Q	173m N	Brewery	1898 - 1910	906760
F	174m N	Unspecified Disused Shaft	1991	812935
P	174m N	Unspecified Heap	1948	897135
P	174m N	Unspecified Heap	1898	941796
P	174m N	Unspecified Heap	1960	908010
P	174m N	Unspecified Heap	1970 - 1987	950963
R	175m SW	Railway Sidings	1869	947604
18	176m SW	Mineral Railway Sidings	1898	885181
R	178m SW	Railway Sidings	1909	871822
R	178m SW	Railway Sidings	1938 - 1948	874303
Q	178m N	Brewery	1948	938554
Q	179m N	Brewery	1869	913041
P	180m N	Old Coal Shaft	1938	951225
P	182m N	Old Coal Shaft	1948	867599
P	182m N	Unspecified Old Shaft	1898	931688
P	182m N	Old Coal Shaft	1910	882454
P	182m N	Unspecified Old Shaft	1960	966997
P	182m N	Unspecified Old Shaft	1970	986341
P	183m N	Unspecified Disused Shaft	1981 - 1987	982781
R	186m SW	Brick Works	1869	939573



ID	Location	Land use	Dates present	Group ID
R	186m SW	Brick Works	1898	882113
R	187m SW	Unspecified Works	1960	990409
T	188m SW	Filling Station	1991	810492
U	188m S	Cuttings	1991	983084
U	189m S	Cuttings	1987	908595
R	190m SW	Unspecified Workshop	1991	876892
R	190m SW	Unspecified Workshop	1981 - 1987	944480
R	194m SW	Railway Sidings	1960	866972
V	195m E	Unspecified Quarry	1869	816583
M	196m N	Cuttings	1938 - 1948	989965
19	197m NE	Smithy	1869	843097
M	197m N	Cuttings	1910	850435
W	198m N	Cuttings	1970	943066
W	198m N	Cuttings	1960	945690
X	203m NE	Unspecified Heap	1869	897058
20	204m SE	Unspecified Ground Workings	1987 - 1991	983054
V	204m E	Unspecified Old Quarry	1938	863805
V	206m E	Unspecified Old Quarry	1948 - 1960	896360
R	207m SW	Brick Works	1909	919805
V	207m E	Unspecified Old Quarry	1898	860974
V	208m E	Unspecified Old Quarry	1910	975641
R	208m SW	Brick Works	1948	915885
V	208m E	Unspecified Ground Workings	1970	799546
R	209m SW	Brick Works	1938	902681
X	210m N	Unspecified Ground Workings	1960	856297
X	210m N	Unspecified Heap	1938	975929
X	211m N	Unspecified Ground Workings	1910	950032
X	212m N	Unspecified Heap	1970	898844



ID	Location	Land use	Dates present	Group ID
Y	213m SW	Cuttings	1869	986203
N	214m NW	Unspecified Heap	1910 - 1948	850434
Z	214m SE	Garage	1981 - 1991	920926
N	216m NW	Unspecified Heap	1960	859195
N	216m NW	Unspecified Heap	1970 - 1987	905587
X	218m N	Unspecified Ground Workings	1898	957599
X	218m N	Unspecified Ground Workings	1948	977741
AA	218m SW	Unspecified Old Quarry	1960	958882
V	219m E	Lime Kiln	1869	842746
N	221m NW	Unspecified Heap	1898	927463
R	221m SW	Unspecified Heap	1938 - 1948	975058
R	221m SW	Unspecified Ground Workings	1909	799512
R	222m SW	Unspecified Heap	1960	857179
O	223m N	Unspecified Heap	1869	914965
21	225m SE	Opencast Workings	1981 - 1987	896002
AB	226m NE	Unspecified Heap	1938	896795
AB	227m NE	Unspecified Heap	1948	884063
N	228m NW	Unspecified Heap	1991	948322
AC	228m S	Unspecified Heap	1869	879385
O	228m N	Unspecified Heap	1948	900245
O	229m N	Unspecified Heap	1910 - 1938	887399
AB	229m NE	Unspecified Heap	1910	957442
O	230m N	Unspecified Pit	1960	839176
O	231m N	Old Coal Shaft	1938	926927
R	231m SW	Unspecified Heap	1898	875139
O	231m N	Unspecified Old Shaft	1960	925103
O	231m N	Unspecified Old Shaft	1970	903416
O	231m N	Unspecified Heap	1970	923120



ID	Location	Land use	Dates present	Group ID
O	232m N	Old Coal Shaft	1948	988776
O	234m N	Old Coal Shaft	1910	849783
N	234m NW	Unspecified Heap	1869	937178
AC	234m S	Unspecified Heap	1938	897655
AC	235m S	Unspecified Heap	1869	971878
O	235m N	Unspecified Shaft	1869	813707
AC	236m S	Unspecified Heap	1909	958678
AC	238m S	Unspecified Heap	1948	967819
AC	238m S	Unspecified Heap	1898	977130
22	238m N	Lime Kiln	1869	842743
N	239m NW	Unspecified Old Shafts	1970	920069
N	240m NW	Unspecified Old Shafts	1960	918138
R	240m SW	Unspecified Works	1970	990350
AC	241m S	Unspecified Heap	1960	872863
N	242m NW	Old Coal Shafts	1938 - 1948	848084
N	242m NW	Old Coal Shafts	1910	921886
N	243m NW	Unspecified Disused Shafts	1981 - 1987	866230
AD	243m N	Unspecified Pit	1970	921487
AD	243m N	Unspecified Pit	1987 - 1991	934853
AA	243m SW	Unspecified Quarry	1869	816581
N	245m NW	Unspecified Old Shafts	1898	793173
Y	247m SW	Cuttings	1909	854877
N	248m NW	Unspecified Disused Shafts	1991	835401
N	251m NW	Unspecified Shafts	1869	809172
Y	253m SW	Cuttings	1948 - 1960	899658
Y	256m SW	Cuttings	1938	909769
24	259m SE	Unspecified Heap	1987 - 1991	889305
AF	259m N	Unspecified Heap	1938	904274



ID	Location	Land use	Dates present	Group ID
AF	260m N	Unspecified Heap	1948	957881
N	261m NW	Unspecified Heap	1938	904714
AF	261m N	Unspecified Heap	1910	883085
AF	261m N	Unspecified Heap	1960	958716
N	263m NW	Unspecified Old Shafts	1960	868847
N	263m NW	Unspecified Old Shafts	1970	891045
N	264m NW	Old Coal Shafts	1938 - 1948	865915
N	266m NW	Old Coal Shafts	1910	900028
N	268m NW	Chimney	1869	835665
N	269m NW	Unspecified Disused Shafts	1981 - 1987	966208
AA	269m SW	Unspecified Old Quarry	1910	989958
AA	269m SW	Unspecified Old Quarry	1948	977017
N	270m NW	Unspecified Old Shafts	1898	793174
AA	273m SW	Unspecified Old Quarry	1938	944101
25	273m S	Refuse Heap	1869	828572
N	274m NW	Unspecified Disused Shafts	1991	854228
N	274m NW	Unspecified Shafts	1869	809173
AG	275m SE	Cuttings	1987	930875
AD	278m NE	Unspecified Ground Workings	1981	799543
W	282m N	Cuttings	1869	876901
AH	283m NW	Unspecified Tank	1869	824044
R	286m SW	Unspecified Tanks	1898	952699
R	286m SW	Unspecified Tanks	1938	953215
W	286m N	Cuttings	1938	915385
W	287m N	Cuttings	1948	936868
R	288m SW	Unspecified Tanks	1909	892146
W	289m N	Cuttings	1910	929109
R	290m SW	Kilns	1869	812678



ID	Location	Land use	Dates present	Group ID
R	291m SW	Unspecified Tanks	1869	937668
R	294m SW	Unspecified Kilns	1869	822222
AI	294m SE	Refuse Heap	1948	828570
R	294m SW	Unspecified Tanks	1869	982158
AJ	295m SE	Refuse Heap	1869	828559
R	297m SW	Unspecified Tanks	1869	923975
AI	302m SE	Unspecified Heap	1960	803591
AH	306m NW	Unspecified Tank	1869	824045
27	310m W	Unspecified Pit	1871	839174
28	311m E	Railway Sidings	1898	846661
R	312m SW	Clay Pit	1869	862741
AJ	312m SE	Old Coal Shafts	1948	950586
AJ	312m SE	Unspecified Old Shafts	1898	952377
AJ	312m SE	Old Coal Shafts	1938	850398
AK	313m SW	Unspecified Commercial/Industrial	1938	796397
AJ	313m SE	Old Coal Shafts	1909	870708
AI	314m SE	Unspecified Shaft	1898	813759
AJ	315m SE	Unspecified Old Shafts	1960	845593
AG	323m SE	Cuttings	1991	850160
AJ	324m SE	Old Coal Shafts	1938 - 1948	866325
AJ	325m SE	Old Coal Shafts	1909	859313
AJ	326m SE	Unspecified Old Shafts	1898	906390
29	326m SE	Cuttings	1987 - 1991	973603
AJ	328m SE	Unspecified Old Shafts	1960	990252
AL	330m SW	Unspecified Ground Workings	1960	992032
AH	332m NW	Unspecified Levels	1898	832408
AH	333m NW	Unspecified Levels	1898	832409
30	334m SE	Cuttings	1987 - 1991	851519



ID	Location	Land use	Dates present	Group ID
31	336m NW	Unspecified Old Shaft	1898	806213
R	337m SW	Railway Sidings	1960	976551
R	337m SW	Unspecified Tanks	1938	957453
AK	338m SW	Railway Sidings	1948 - 1960	956884
R	340m SW	Unspecified Mill	1869	955794
32	341m SW	Unspecified Disused Pit	1981	947440
AL	341m SW	Unspecified Disused Pit	1987	873760
AL	341m SW	Clay Pit	1970	918333
R	344m SW	Railway Sidings	1898	902606
R	344m SW	Railway Sidings	1938 - 1948	926489
AM	344m NW	Unspecified Heap	1960	978886
AN	344m SW	Unspecified Mills	1869	969163
AM	345m NW	Unspecified Heap	1938	964787
AM	345m NW	Unspecified Heap	1910	878816
AN	347m SW	Pottery	1938	896292
AL	347m SW	Clay Quarry	1991	797992
AN	348m SW	Pottery	1909	879406
R	348m SW	Unspecified Tanks	1970	814972
AN	349m SW	Pottery	1898	975764
AO	350m S	Colliery	1869	940702
AM	351m NW	Unspecified Heap	1898	871064
AM	351m NW	Unspecified Heap	1948	940517
AL	352m SW	Unspecified Ground Workings	1948	938331
R	356m SW	Clay Pit	1869	932330
AP	356m SW	Unspecified Ground Workings	1938	964772
R	358m SW	Unspecified Ground Workings	1869	889980
AP	358m SW	Unspecified Pit	1898	839173
33	358m NE	Unspecified Pit	1991	839192



ID	Location	Land use	Dates present	Group ID
AP	358m SW	Unspecified Quarry	1909	816582
34	363m S	Refuse Heap	1869	828573
36	381m E	Coal Pit	1898	808458
AN	381m SW	Unspecified Works	1960	830098
37	387m NE	Unspecified Ground Workings	1970 - 1987	876468
AS	391m S	Unspecified Heap	1869	802851
AL	394m SW	Unspecified Disused Pit	1981	880496
AS	396m S	Unspecified Old Quarry	1938	981792
AT	397m SW	Railway Sidings	1948	848653
AS	397m S	Unspecified Old Quarry	1909	929356
AS	398m S	Unspecified Old Quarry	1960	895469
AU	398m SW	Mineral Railway Sidings	1938	960719
38	398m SE	Cuttings	1991	987943
AS	398m S	Unspecified Old Quarry	1948	891586
AS	398m S	Unspecified Old Quarry	1898	917511
AO	400m S	Unspecified Heap	1869	906270
AS	400m S	Unspecified Quarry	1981 - 1987	928138
39	402m N	Old Lime Kiln	1869	821891
AN	402m SW	Pottery	1948	882551
AV	403m SE	Cuttings	1987 - 1991	973231
AW	406m SW	Unspecified Heap	1991	991248
AO	407m S	Colliery	1869	969433
AW	409m SW	Unspecified Heap	1938 - 1948	915483
AT	409m SW	Railway Sidings	1960	878386
AW	409m SW	Unspecified Heap	1909	851928
AW	409m SW	Unspecified Heap	1981 - 1987	959840
AU	409m SW	Mineral Railway Sidings	1898 - 1909	991598
40	410m NW	Unspecified Old Shaft	1898	806212



ID	Location	Land use	Dates present	Group ID
AW	410m SW	Unspecified Heap	1970	970282
AW	410m SW	Unspecified Heap	1960	967807
AX	412m NE	Unspecified Heap	1869	848873
AX	419m NE	Unspecified Heap	1938	905108
AX	420m NE	Unspecified Ground Workings	1960	964617
AX	420m NE	Unspecified Ground Workings	1910	981310
AY	423m S	Unspecified Heap	1910	965565
AY	425m S	Unspecified Heap	1938 - 1948	940217
AZ	425m SE	Unspecified Level	1898	832114
AY	426m S	Unspecified Heap	1960	933546
BA	428m N	Unspecified Heap	1938 - 1948	860865
BA	429m N	Unspecified Heap	1960	877775
BA	429m N	Unspecified Heap	1970	864254
BA	430m N	Unspecified Heap	1910	899158
AT	434m SW	Railway Sidings	1869	980533
AN	444m SW	Pottery	1869	907915
AV	445m SE	Cuttings	1987	845520
41	449m NW	Unspecified Pit	1970 - 1991	950796
AN	450m SW	Pottery	1869	874556
AZ	456m SE	Unspecified Pit	1948	896692
AZ	459m SE	Unspecified Pit	1938	855671
AO	460m S	Old Colliery	1898	808569
AZ	464m SE	Unspecified Pit	1970	865834
AZ	464m SE	Unspecified Pit	1960	911702
BB	471m SE	Unspecified Heap	1938	944325
BB	472m SE	Unspecified Heap	1909	919017
BB	472m SE	Unspecified Heap	1948	884006
BB	472m SE	Unspecified Heap	1898	891418



ID	Location	Land use	Dates present	Group ID
AO	473m S	Unspecified Heap	1938	888715
AT	473m SW	Brick Works	1948	986557
AO	473m S	Unspecified Ground Workings	1948	962085
AO	474m S	Unspecified Heap	1898	921059
BB	474m SE	Unspecified Heap	1970	973453
BB	474m SE	Unspecified Heap	1960	964946
AO	475m S	Unspecified Ground Workings	1909	866593
42	475m N	Railway Building	1960	819561
AT	475m SW	Unspecified Works	1960	895476
43	478m SE	Unspecified Disused Workings	1991	842251
AO	479m S	Unspecified Ground Workings	1960	936243
AO	479m S	Unspecified Heap	1970 - 1987	954181
44	486m SW	Sand Pit	1869	797378
AT	490m SW	Brick Works	1898	942695
AT	491m SW	Brick Works	1938	969148
BD	491m N	Sand Pit	1948	963379
BD	492m N	Unspecified Pit	1981 - 1991	851268
BD	492m N	Sand Pit	1960	949712
BD	492m N	Sand Pit	1938	991975
BC	493m SE	Garage	1981 - 1987	890399
BC	493m SE	Garage	1970	934977
BD	495m N	Sand Pit	1910	972222
BD	496m N	Unspecified Pit	1970	919425
45	498m SW	Unspecified Disused Works	1970	813346
AO	498m S	Unspecified Disused Shafts	1970	888158
AO	498m S	Unspecified Disused Shafts	1987 - 1991	918194
AT	499m SW	Brick Works	1909	883694

This data is sourced from Ordnance Survey / Groundsure.



Contact us with any questions at:

████████████████████
 08444 159 000

Date: 30 July 2021

1.2 Historical tanks

Records within 500m

14

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 13**

ID	Location	Land use	Dates present	Group ID
B	On site	Tanks	1966	104554
12	77m N	Unspecified Tank	1899 - 1912	145834
F	171m N	Unspecified Tank	1988 - 1990	131259
F	171m N	Unspecified Tank	1959	135467
M	204m N	Unspecified Tank	1988 - 1991	135270
M	204m N	Unspecified Tank	1959	148503
M	207m N	Unspecified Tank	1992 - 1996	126237
X	229m N	Unspecified Tank	1959	140869
R	288m SW	Tanks	1899 - 1912	132218
R	309m SW	Unspecified Tank	1899 - 1912	134580
R	348m SW	Unspecified Tank	1963	111814
R	350m SW	Tanks	1963	104550
35	364m S	Unspecified Tank	1991	109411
AQ	378m SE	Unspecified Tank	1912	111772

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

17

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 13**

ID	Location	Land use	Dates present	Group ID
6	4m S	Electricity Substation	1991 - 1996	74634
A	52m SW	Electricity Substation	1991 - 1996	80543
S	184m N	Electricity Substation	1959 - 1991	76917
S	186m N	Electricity Substation	1992 - 1996	67571
V	216m E	Electricity Substation	1991 - 1996	69376
AE	243m N	Electricity Substation	1959	68800
AE	243m N	Electricity Substation	1988 - 1991	81134
AE	246m N	Electricity Substation	1992 - 1996	74079
AE	247m N	Electricity Substation	1959	83581
23	251m SE	Electricity Substation	1966 - 1992	70984
26	293m SW	Electricity Substation	1991	60005
AJ	349m SE	Electricity Substation	1980 - 1992	65529
AR	381m NE	Electricity Substation	1991	74857
AR	382m NE	Electricity Substation	1992 - 1996	64624
R	400m SW	Electricity Substation	1988 - 1991	67953
AQ	409m SE	Electricity Substation	1987	64496
AQ	409m SE	Electricity Substation	1980 - 1992	69194

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m

3

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'.

Features are displayed on the Past land use map on **page 13**



ID	Location	Land use	Dates present	Group ID
A	26m S	Filling Station	1991 - 1994	1666
11	75m SW	Filling Station	1966	1462
T	193m SW	Filling Station	1991	1469

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m	5
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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'.

Features are displayed on the Past land use map on **page 13**

ID	Location	Land use	Dates present	Group ID
7	40m E	Garage	1966 - 1980	25015
Z	220m SE	Garage	1980 - 1992	27631
Z	222m SE	Garage	1966 - 1987	27121
BC	490m SE	Garage	1987 - 1992	27088
BC	491m SE	Garage	1966 - 1980	25582

This data is sourced from Ordnance Survey / Groundsure.

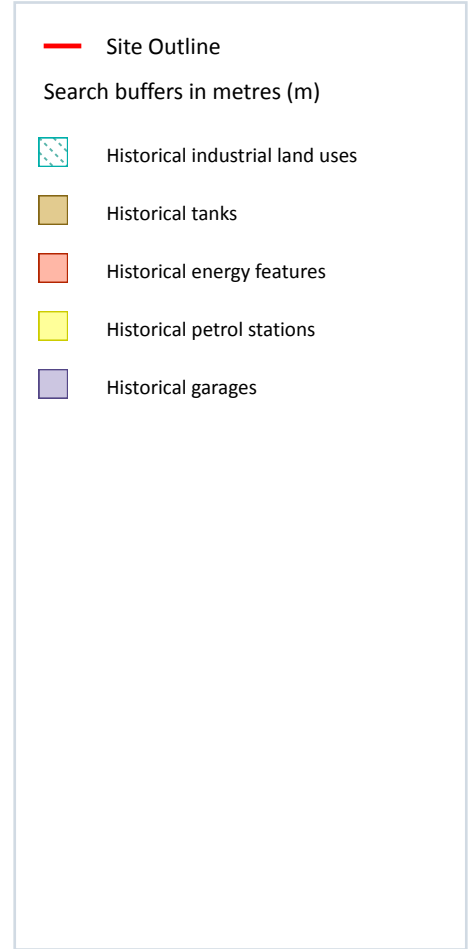
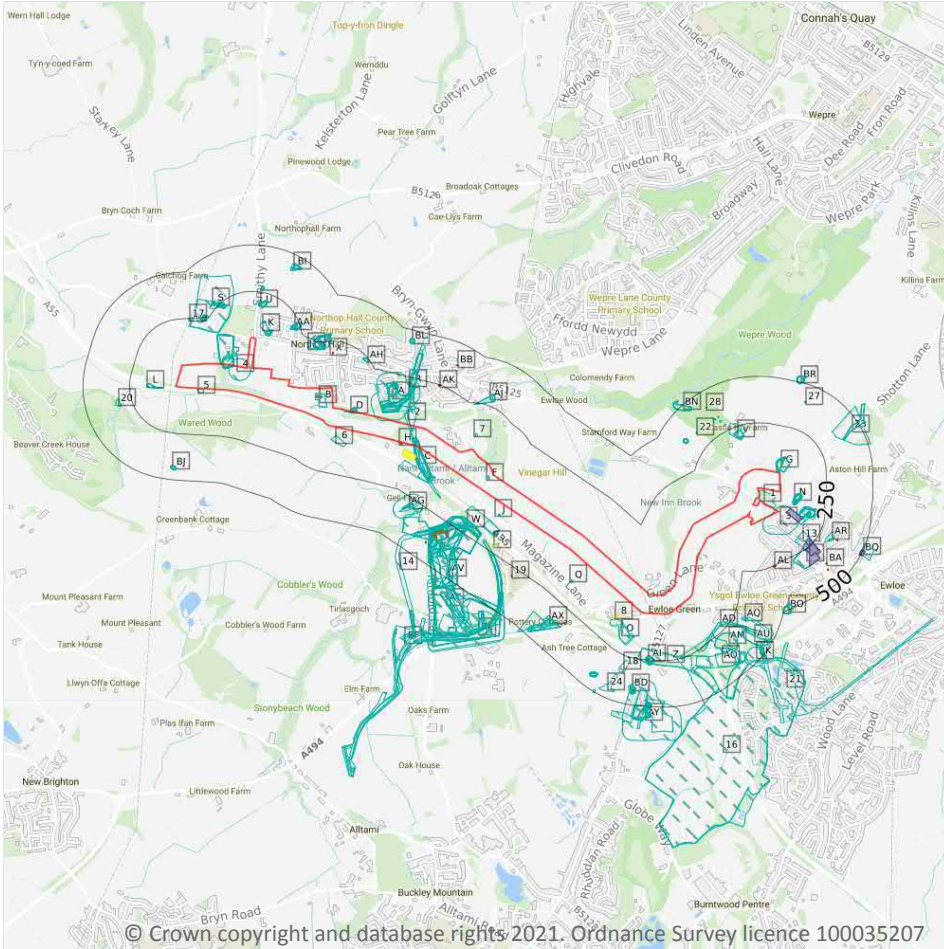
1.6 Historical military land

Records within 500m	0
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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



2.1 Historical industrial land uses

Records within 500m

498

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 ungrouped 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 31**

ID	Location	Land Use	Date	Group ID
1	On site	Unspecified Heap	1869	803592
2	On site	Unspecified Heap	1991	803594
3	On site	Old Colliery	1869	808568



ID	Location	Land Use	Date	Group ID
4	On site	Magazine	1948	827271
A	On site	Colliery	1898	798231
B	On site	Unspecified Works	1960	901891
B	On site	Unspecified Works	1970	877369
B	On site	Unspecified Tank	1960	965600
B	On site	Unspecified Tank	1960	933449
B	On site	Unspecified Tank	1970	916301
B	On site	Unspecified Tank	1970	879190
C	On site	Unspecified Heap	1938	934914
C	On site	Unspecified Heap	1938	934914
C	On site	Cuttings	1948	988517
C	On site	Cuttings	1898	943999
C	On site	Cuttings	1869	897984
C	On site	Cuttings	1981	916118
C	On site	Cuttings	1960	988517
C	On site	Cuttings	1970	928642
C	On site	Cuttings	1910	853212
C	On site	Railway Sidings	1869	794520
D	On site	Old Gravel Pit	1938	912603
D	On site	Sand Pit	1869	797379
D	On site	Old Gravel Pit	1960	946740
D	On site	Old Gravel Pit	1970	883458
D	On site	Old Gravel Pit	1910	911484
E	On site	Unspecified Disused Mine	1960	810915
E	On site	Colliery	1898	927848
E	On site	Unspecified Ground Workings	1948	893610
E	On site	Unspecified Ground Workings	1970	967188
E	On site	Colliery	1938	908735



ID	Location	Land Use	Date	Group ID
E	On site	Unspecified Heap	1938	918071
E	On site	Colliery	1948	904263
E	On site	Colliery	1938	908735
E	On site	Unspecified Heap	1938	918071
E	On site	Colliery	1910	927848
E	On site	Unspecified Ground Workings	1910	917742
F	On site	Unspecified Disused Shafts	1991	835399
F	On site	Unspecified Disused Shafts	1991	835400
5	1m S	Unspecified Heap	1970	803588
D	2m N	Old Gravel Pit	1898	885668
D	2m N	Old Gravel Pit	1948	912603
G	2m N	Unspecified Heap	1869	892215
G	3m N	Refuse Heap	1948	828558
G	5m N	Unspecified Heap	1938	937790
G	5m N	Unspecified Heap	1938	937790
G	5m N	Unspecified Heap	1960	934185
G	7m N	Unspecified Ground Workings	1910	799525
E	21m N	Unspecified Heap	1898	856493
A	30m N	Disused Colliery	1938	989627
A	30m N	Disused Colliery	1938	989627
A	31m N	Disused Colliery	1948	942533
A	31m N	Unspecified Disused Mine	1960	810938
A	32m N	Disused Colliery	1910	967221
A	35m N	Unspecified Heap	1938	954461
A	35m N	Unspecified Heap	1938	954461
A	36m N	Unspecified Heap	1970	885961
A	37m N	Unspecified Heap	1960	919653
A	38m N	Unspecified Heap	1910	907144



ID	Location	Land Use	Date	Group ID
6	43m S	Cuttings	1991	795494
A	49m N	Unspecified Heap	1898	986461
A	49m N	Unspecified Heap	1948	949435
A	54m N	Railway Sidings	1948	852769
A	56m N	Railway Sidings	1938	852769
A	56m N	Railway Sidings	1960	902140
J	57m SW	Chimney	1991	884775
J	57m SW	Chimney	1970	884775
A	58m N	Railway Sidings	1910	899192
K	58m NE	Unspecified Heap	1869	974348
J	59m SW	Chimney	1987	884775
J	59m SW	Chimney	1981	884775
A	60m N	Railway Sidings	1898	924671
E	61m N	Unspecified Tank	1987	824094
E	61m N	Unspecified Disused Shaft	1970	812921
K	63m NE	Unspecified Heap	1938	913282
K	63m NE	Unspecified Heap	1938	913282
K	64m NE	Unspecified Heap	1898	923815
K	65m NE	Unspecified Heap	1910	937871
C	66m S	Unspecified Hole	1869	810981
L	73m W	Unspecified Pit	1960	839175
7	74m N	Unspecified Tank	1948	824112
A	78m N	Unspecified Shaft	1960	813706
A	80m N	Unspecified Tank	1938	824113
N	82m E	Unspecified Heap	1948	855660
N	82m E	Unspecified Heap	1898	938035
N	83m E	Unspecified Heap	1910	968519
N	84m SE	Unspecified Heap	1987	921811



ID	Location	Land Use	Date	Group ID
N	84m SE	Unspecified Heap	1981	921811
N	84m SE	Unspecified Heap	1938	952847
N	84m SE	Unspecified Heap	1938	952847
9	87m SW	Cuttings	1991	863363
N	88m SE	Unspecified Heap	1970	845985
N	88m SE	Unspecified Heap	1960	845985
N	89m SE	Unspecified Heap	1869	938035
10	91m S	Cuttings	1987	983960
A	93m N	Unspecified Shaft	1948	945864
A	94m N	Unspecified Shaft	1938	969495
A	94m N	Unspecified Shaft	1938	969495
A	94m N	Unspecified Shaft	1910	860037
K	98m NE	Old Coal Shaft	1938	864298
K	99m NE	Unspecified Old Shaft	1960	954704
K	99m NE	Old Coal Shaft	1948	943523
K	99m NE	Unspecified Old Shaft	1898	927894
K	100m NE	Old Coal Shaft	1910	962976
11	103m SW	Cuttings	1987	877201
L	104m W	Unspecified Ground Workings	1970	799544
O	105m SW	Refuse Heap	1869	848778
O	110m SW	Refuse Heap	1898	848778
12	111m SW	Cuttings	1991	877201
P	113m E	Unspecified Ground Workings	1910	910106
P	113m E	Unspecified Heap	1948	964776
P	114m E	Unspecified Heap	1970	986529
P	115m E	Unspecified Heap	1960	920641
P	116m E	Unspecified Ground Workings	1938	871383
P	116m E	Unspecified Ground Workings	1938	871383



ID	Location	Land Use	Date	Group ID
Q	116m SW	Magazine	1869	913435
P	117m E	Unspecified Heap	1898	909143
P	118m E	Unspecified Heap	1869	909143
P	118m SE	Garage	1987	880213
P	118m SE	Garage	1981	880213
Q	119m SW	Magazine	1869	913435
A	124m N	Unspecified Heap	1960	915597
A	124m N	Unspecified Heap	1970	949948
A	124m N	Unspecified Heap	1938	901513
A	124m N	Unspecified Heap	1938	901513
A	125m N	Unspecified Heap	1910	889019
A	135m N	Unspecified Heap	1948	912966
A	135m N	Unspecified Heap	1898	972930
R	140m N	Cuttings	1869	967302
O	144m SW	Old Coal Shafts	1948	836137
O	144m SW	Unspecified Old Shaft	1898	860586
O	148m SW	Unspecified Old Shaft	1960	917289
O	148m SW	Old Coal Shaft	1938	845838
O	149m SW	Old Coal Shaft	1909	845838
P	159m E	Unspecified Old Shaft	1948	847737
P	159m E	Unspecified Shaft	1898	813758
S	161m NW	Disused Colliery	1898	822314
P	163m E	Unspecified Old Shaft	1938	960245
P	163m E	Unspecified Old Shaft	1938	962641
P	164m E	Unspecified Old Shaft	1910	954465
T	166m NW	Colliery	1869	798233
A	168m N	Unspecified Old Shaft	1960	806216
A	168m N	Unspecified Disused Shaft	1970	812936



ID	Location	Land Use	Date	Group ID
A	168m N	Old Coal Shaft	1948	850159
A	168m N	Old Coal Shaft	1938	850159
P	168m E	Unspecified Old Shaft	1960	806211
A	169m N	Old Coal Shaft	1910	850159
13	170m SE	Garage	1970	901952
U	172m N	Unspecified Heap	1938	911100
U	172m N	Unspecified Heap	1938	911100
U	172m N	Unspecified Heap	1910	983167
V	173m N	Brewery	1910	906760
A	174m N	Unspecified Disused Shaft	1991	812935
U	174m N	Unspecified Heap	1948	897135
U	174m N	Unspecified Heap	1898	941796
U	174m N	Unspecified Heap	1960	908010
U	174m N	Unspecified Heap	1970	950963
U	175m N	Unspecified Heap	1987	950963
U	175m N	Unspecified Heap	1981	950963
W	175m SW	Railway Sidings	1869	947604
14	176m SW	Mineral Railway Sidings	1898	885181
W	178m SW	Railway Sidings	1938	874303
V	178m N	Brewery	1948	938554
V	178m N	Brewery	1898	906760
V	179m N	Brewery	1869	913041
U	180m N	Old Coal Shaft	1938	951225
W	181m SW	Railway Sidings	1948	874303
U	182m N	Old Coal Shaft	1948	867599
U	182m N	Unspecified Old Shaft	1898	931688
U	182m N	Old Coal Shaft	1910	882454
U	182m N	Unspecified Old Shaft	1960	966997



ID	Location	Land Use	Date	Group ID
U	182m N	Unspecified Old Shaft	1970	986341
U	183m N	Unspecified Disused Shaft	1987	982781
U	183m N	Unspecified Disused Shaft	1981	982781
W	185m SW	Railway Sidings	1909	871822
W	186m SW	Brick Works	1869	939573
W	186m SW	Brick Works	1898	882113
W	187m SW	Unspecified Works	1960	990409
Y	188m SW	Filling Station	1991	810492
Z	188m S	Cuttings	1991	983084
Z	189m S	Cuttings	1987	908595
W	189m SW	Brick Works	1869	939573
W	190m SW	Railway Sidings	1869	947604
W	190m SW	Unspecified Workshop	1991	876892
W	190m SW	Unspecified Workshop	1987	944480
W	190m SW	Unspecified Workshop	1981	944480
W	194m SW	Railway Sidings	1960	866972
AA	195m E	Unspecified Quarry	1869	816583
R	196m N	Cuttings	1948	989965
R	196m N	Cuttings	1938	989965
15	197m NE	Smithy	1869	843097
R	197m N	Cuttings	1910	850435
AB	198m N	Cuttings	1960	945690
AB	198m N	Cuttings	1970	943066
AC	203m NE	Unspecified Heap	1869	897058
AD	204m SE	Unspecified Ground Workings	1991	983054
AD	204m SE	Unspecified Ground Workings	1987	983054
AA	204m E	Unspecified Old Quarry	1938	863805
AA	206m E	Unspecified Old Quarry	1948	896360



ID	Location	Land Use	Date	Group ID
AA	207m E	Unspecified Old Quarry	1960	896360
W	207m SW	Brick Works	1909	919805
AA	207m E	Unspecified Old Quarry	1898	860974
AA	208m E	Unspecified Old Quarry	1910	975641
W	208m SW	Brick Works	1948	915885
AA	208m E	Unspecified Ground Workings	1970	799546
W	209m SW	Brick Works	1938	902681
W	209m SW	Brick Works	1938	902681
AC	210m N	Unspecified Ground Workings	1960	856297
AC	210m N	Unspecified Heap	1938	975929
AC	210m N	Unspecified Heap	1938	975929
AC	211m N	Unspecified Ground Workings	1910	950032
AC	212m N	Unspecified Heap	1970	898844
AE	213m SW	Cuttings	1869	986203
S	214m NW	Unspecified Heap	1948	850434
AF	214m SE	Garage	1991	920926
AF	214m SE	Garage	1987	920926
AF	214m SE	Garage	1981	920926
S	215m NW	Unspecified Heap	1938	850434
S	215m NW	Unspecified Heap	1938	850434
S	216m NW	Unspecified Heap	1910	850434
S	216m NW	Unspecified Heap	1960	859195
S	216m NW	Unspecified Heap	1970	905587
AC	218m N	Unspecified Ground Workings	1948	977741
AC	218m N	Unspecified Ground Workings	1898	957599
S	218m NW	Unspecified Heap	1987	905587
S	218m NW	Unspecified Heap	1981	905587
AG	218m SW	Unspecified Old Quarry	1960	958882



ID	Location	Land Use	Date	Group ID
AA	219m E	Lime Kiln	1869	842746
S	221m NW	Unspecified Heap	1898	927463
AE	221m SW	Cuttings	1869	986203
W	221m SW	Unspecified Ground Workings	1909	799512
W	221m SW	Unspecified Heap	1948	975058
W	222m SW	Unspecified Heap	1960	857179
W	222m SW	Unspecified Heap	1938	975058
W	222m SW	Unspecified Heap	1938	975058
T	223m N	Unspecified Heap	1869	914965
16	225m SE	Opencast Workings	1981	896002
AH	226m NE	Unspecified Heap	1938	896795
AH	226m NE	Unspecified Heap	1938	896795
AH	227m NE	Unspecified Heap	1948	884063
S	228m NW	Unspecified Heap	1991	948322
AI	228m S	Unspecified Heap	1869	879385
T	228m N	Unspecified Heap	1948	900245
T	229m N	Unspecified Heap	1938	887399
T	229m N	Unspecified Heap	1938	887399
AH	229m NE	Unspecified Heap	1910	957442
T	230m N	Unspecified Heap	1910	887399
T	230m N	Unspecified Pit	1960	839176
T	231m N	Old Coal Shaft	1938	926927
W	231m SW	Unspecified Heap	1898	875139
T	231m N	Unspecified Old Shaft	1960	925103
T	231m N	Unspecified Old Shaft	1970	903416
T	231m N	Unspecified Heap	1970	923120
T	232m N	Old Coal Shaft	1948	988776
T	234m N	Old Coal Shaft	1910	849783



ID	Location	Land Use	Date	Group ID
S	234m NW	Unspecified Heap	1869	937178
AI	234m S	Unspecified Heap	1938	897655
AI	234m S	Unspecified Heap	1938	897655
AI	235m S	Unspecified Heap	1869	971878
T	235m N	Unspecified Shaft	1869	813707
AI	236m S	Unspecified Heap	1909	958678
AI	238m S	Unspecified Heap	1898	977130
AI	238m S	Unspecified Heap	1948	967819
17	238m N	Lime Kiln	1869	842743
S	239m NW	Unspecified Old Shafts	1970	920069
S	240m NW	Unspecified Old Shafts	1960	918138
W	240m SW	Unspecified Works	1970	990350
AI	241m S	Unspecified Heap	1960	872863
S	242m NW	Old Coal Shafts	1948	848084
S	242m NW	Old Coal Shafts	1910	921886
S	243m NW	Unspecified Disused Shafts	1987	866230
S	243m NW	Unspecified Disused Shafts	1981	866230
S	243m NW	Old Coal Shafts	1938	848084
AJ	243m N	Unspecified Pit	1991	934853
AJ	243m N	Unspecified Pit	1987	934853
AJ	243m N	Unspecified Pit	1970	921487
AG	243m SW	Unspecified Quarry	1869	816581
S	245m NW	Unspecified Old Shafts	1898	793173
AE	247m SW	Cuttings	1909	854877
S	248m NW	Unspecified Disused Shafts	1991	835401
S	251m NW	Unspecified Shafts	1869	809172
AE	253m SW	Cuttings	1948	899658
AE	254m SW	Cuttings	1960	899658



ID	Location	Land Use	Date	Group ID
AE	256m SW	Cuttings	1938	909769
AM	259m SE	Unspecified Heap	1987	889305
AN	259m N	Unspecified Heap	1938	904274
AN	259m N	Unspecified Heap	1938	904274
AM	260m SE	Unspecified Heap	1991	889305
AN	260m N	Unspecified Heap	1948	957881
S	261m NW	Unspecified Heap	1938	904714
S	261m NW	Unspecified Heap	1938	904714
AN	261m N	Unspecified Heap	1910	883085
AN	261m N	Unspecified Heap	1960	958716
S	263m NW	Unspecified Old Shafts	1960	868847
S	263m NW	Unspecified Old Shafts	1970	891045
S	264m NW	Old Coal Shafts	1948	865915
S	265m NW	Old Coal Shafts	1938	865915
S	266m NW	Old Coal Shafts	1910	900028
S	268m NW	Chimney	1869	835665
S	269m NW	Unspecified Disused Shafts	1987	966208
S	269m NW	Unspecified Disused Shafts	1981	966208
AG	269m SW	Unspecified Old Quarry	1910	989958
AG	269m SW	Unspecified Old Quarry	1948	977017
S	270m NW	Unspecified Old Shafts	1898	793174
AG	273m SW	Unspecified Old Quarry	1938	944101
18	273m S	Refuse Heap	1869	828572
S	274m NW	Unspecified Disused Shafts	1991	854228
S	274m NW	Unspecified Shafts	1869	809173
AO	275m SE	Cuttings	1987	930875
AJ	278m NE	Unspecified Ground Workings	1981	799543
AB	282m N	Cuttings	1869	876901



ID	Location	Land Use	Date	Group ID
AP	283m NW	Unspecified Tank	1869	824044
W	286m SW	Unspecified Tanks	1898	952699
W	286m SW	Unspecified Tanks	1938	953215
AB	286m N	Cuttings	1938	915385
AB	287m N	Cuttings	1948	936868
W	288m SW	Unspecified Tanks	1909	892146
AB	289m N	Cuttings	1910	929109
W	290m SW	Kilns	1869	812678
W	291m SW	Unspecified Tanks	1869	937668
W	294m SW	Unspecified Kilns	1869	822222
AQ	294m SE	Refuse Heap	1948	828570
W	294m SW	Unspecified Tanks	1869	982158
AR	295m SE	Refuse Heap	1869	828559
W	297m SW	Unspecified Tanks	1869	923975
AQ	302m SE	Unspecified Heap	1960	803591
AP	306m NW	Unspecified Tank	1869	824045
20	310m W	Unspecified Pit	1871	839174
21	311m E	Railway Sidings	1898	846661
W	312m SW	Clay Pit	1869	862741
AR	312m SE	Old Coal Shafts	1948	950586
AR	312m SE	Unspecified Old Shafts	1898	952377
AR	312m SE	Old Coal Shafts	1938	850398
W	313m SW	Unspecified Commercial/Industrial	1938	796397
AR	313m SE	Old Coal Shafts	1909	870708
AQ	314m SE	Unspecified Shaft	1898	813759
W	314m SW	Unspecified Tanks	1869	937668
AR	315m SE	Unspecified Old Shafts	1960	845593
AO	323m SE	Cuttings	1991	850160



ID	Location	Land Use	Date	Group ID
AR	324m SE	Old Coal Shafts	1938	866325
AR	325m SE	Old Coal Shafts	1909	859313
AR	326m SE	Old Coal Shafts	1948	866325
AR	326m SE	Unspecified Old Shafts	1898	906390
AS	326m SE	Cuttings	1991	973603
AS	328m SE	Cuttings	1987	973603
AR	328m SE	Unspecified Old Shafts	1960	990252
AT	330m SW	Unspecified Ground Workings	1960	992032
AP	332m NW	Unspecified Levels	1898	832408
AP	333m NW	Unspecified Levels	1898	832409
AU	334m SE	Cuttings	1991	851519
AU	335m SE	Cuttings	1987	851519
22	336m NW	Unspecified Old Shaft	1898	806213
W	337m SW	Railway Sidings	1960	976551
W	337m SW	Unspecified Tanks	1938	957453
W	338m SW	Railway Sidings	1948	956884
W	338m SW	Railway Sidings	1960	956884
W	340m SW	Unspecified Mill	1869	955794
AV	341m SW	Clay Pit	1970	918333
AV	341m SW	Unspecified Disused Pit	1987	873760
AV	341m SW	Unspecified Disused Pit	1981	947440
W	342m SW	Unspecified Mill	1869	955794
W	344m SW	Railway Sidings	1898	902606
W	344m SW	Railway Sidings	1948	926489
AW	344m NW	Unspecified Heap	1960	978886
AX	344m SW	Unspecified Mills	1869	969163
AW	345m NW	Unspecified Heap	1938	964787
AW	345m NW	Unspecified Heap	1938	964787



ID	Location	Land Use	Date	Group ID
AW	345m NW	Unspecified Heap	1910	878816
AX	347m SW	Pottery	1938	896292
AT	347m SW	Clay Quarry	1991	797992
AX	348m SW	Pottery	1909	879406
W	348m SW	Unspecified Tanks	1970	814972
AX	349m SW	Pottery	1898	975764
AY	350m S	Colliery	1869	940702
AW	351m NW	Unspecified Heap	1948	940517
AW	351m NW	Unspecified Heap	1898	871064
AT	352m SW	Unspecified Ground Workings	1948	938331
W	356m SW	Clay Pit	1869	932330
W	356m SW	Railway Sidings	1938	926489
AZ	356m SW	Unspecified Ground Workings	1938	964772
AZ	356m SW	Unspecified Ground Workings	1938	964772
W	358m SW	Unspecified Ground Workings	1869	889980
AZ	358m SW	Unspecified Pit	1898	839173
23	358m NE	Unspecified Pit	1991	839192
AZ	358m SW	Unspecified Quarry	1909	816582
24	363m S	Refuse Heap	1869	828573
AX	372m SW	Unspecified Mills	1869	969163
26	381m E	Coal Pit	1898	808458
AX	381m SW	Unspecified Works	1960	830098
BC	387m NE	Unspecified Ground Workings	1987	876468
BC	387m NE	Unspecified Ground Workings	1981	876468
BC	387m NE	Unspecified Ground Workings	1970	876468
BD	391m S	Unspecified Heap	1869	802851
AT	394m SW	Unspecified Disused Pit	1981	880496
BD	396m S	Unspecified Old Quarry	1938	981792



ID	Location	Land Use	Date	Group ID
BE	397m SW	Railway Sidings	1948	848653
BD	397m S	Unspecified Old Quarry	1909	929356
BD	398m S	Unspecified Old Quarry	1960	895469
BF	398m SW	Mineral Railway Sidings	1938	960719
BG	398m SE	Cuttings	1991	987943
BD	398m S	Unspecified Old Quarry	1948	891586
BD	398m S	Unspecified Old Quarry	1898	917511
AY	400m S	Unspecified Heap	1869	906270
BD	400m S	Unspecified Quarry	1987	928138
BD	400m S	Unspecified Quarry	1981	928138
27	402m N	Old Lime Kiln	1869	821891
AX	402m SW	Pottery	1948	882551
BG	403m SE	Cuttings	1987	973231
BH	406m SW	Unspecified Heap	1991	991248
AY	407m S	Colliery	1869	969433
BH	409m SW	Unspecified Heap	1938	915483
BH	409m SW	Unspecified Heap	1938	915483
BE	409m SW	Railway Sidings	1960	878386
BH	409m SW	Unspecified Heap	1909	851928
BH	409m SW	Unspecified Heap	1987	959840
BH	409m SW	Unspecified Heap	1981	959840
BF	409m SW	Mineral Railway Sidings	1909	991598
28	410m NW	Unspecified Old Shaft	1898	806212
BH	410m SW	Unspecified Heap	1960	967807
BH	410m SW	Unspecified Heap	1970	970282
BH	410m SW	Unspecified Heap	1948	915483
BI	412m NE	Unspecified Heap	1869	848873
BI	419m NE	Unspecified Heap	1938	905108



ID	Location	Land Use	Date	Group ID
BI	419m NE	Unspecified Heap	1938	905108
BI	420m NE	Unspecified Ground Workings	1960	964617
BI	420m NE	Unspecified Ground Workings	1910	981310
BJ	423m S	Unspecified Heap	1910	965565
BJ	425m S	Unspecified Heap	1938	940217
BJ	425m S	Unspecified Heap	1938	940217
BK	425m SE	Unspecified Level	1898	832114
BJ	426m S	Unspecified Heap	1948	940217
BJ	426m S	Unspecified Heap	1960	933546
BL	428m N	Unspecified Heap	1938	860865
BL	428m N	Unspecified Heap	1938	860865
BL	428m N	Unspecified Heap	1948	860865
BL	429m N	Unspecified Heap	1960	877775
BL	429m N	Unspecified Heap	1970	864254
BL	430m N	Unspecified Heap	1910	899158
BE	434m SW	Railway Sidings	1869	980533
BE	438m SW	Railway Sidings	1869	980533
AX	444m SW	Pottery	1869	907915
BM	444m SE	Cuttings	1991	973231
BM	445m SE	Cuttings	1987	845520
BN	449m NW	Unspecified Pit	1991	950796
BN	449m NW	Unspecified Pit	1970	950796
AX	450m SW	Pottery	1869	874556
BN	452m NW	Unspecified Pit	1987	950796
BN	452m NW	Unspecified Pit	1981	950796
BK	456m SE	Unspecified Pit	1948	896692
BK	459m SE	Unspecified Pit	1938	855671
BK	459m SE	Unspecified Pit	1938	855671



ID	Location	Land Use	Date	Group ID
AY	460m S	Old Colliery	1898	808569
AT	460m SW	Clay Pit	1970	918333
AT	460m SW	Unspecified Disused Pit	1987	873760
BK	464m SE	Unspecified Pit	1960	911702
BK	464m SE	Unspecified Pit	1970	865834
BO	471m SE	Unspecified Heap	1938	944325
BO	471m SE	Unspecified Heap	1938	944325
BO	472m SE	Unspecified Heap	1909	919017
BO	472m SE	Unspecified Heap	1898	891418
BO	472m SE	Unspecified Heap	1948	884006
AY	473m S	Unspecified Heap	1938	888715
AY	473m S	Unspecified Heap	1938	888715
BE	473m SW	Brick Works	1948	986557
AY	473m S	Unspecified Ground Workings	1948	962085
AY	474m S	Unspecified Heap	1898	921059
BO	474m SE	Unspecified Heap	1960	964946
BO	474m SE	Unspecified Heap	1970	973453
AY	475m S	Unspecified Ground Workings	1909	866593
29	475m N	Railway Building	1960	819561
BE	475m SW	Unspecified Works	1960	895476
BP	478m SE	Unspecified Disused Workings	1991	842251
BP	478m SE	Opencast Workings	1987	896002
AY	479m S	Unspecified Ground Workings	1960	936243
AY	479m S	Unspecified Heap	1987	954181
AY	479m S	Unspecified Heap	1970	954181
AY	482m S	Unspecified Heap	1981	954181
30	486m SW	Sand Pit	1869	797378
BE	490m SW	Brick Works	1898	942695



ID	Location	Land Use	Date	Group ID
BF	490m SW	Mineral Railway Sidings	1898	991598
BE	491m SW	Brick Works	1938	969148
BE	491m SW	Brick Works	1938	969148
BR	491m N	Sand Pit	1948	963379
BR	492m N	Unspecified Pit	1991	851268
BR	492m N	Unspecified Pit	1987	851268
BR	492m N	Unspecified Pit	1981	851268
BR	492m N	Sand Pit	1960	949712
BR	492m N	Sand Pit	1938	991975
BQ	493m SE	Garage	1987	890399
BQ	493m SE	Garage	1981	890399
BQ	493m SE	Garage	1970	934977
BR	495m N	Sand Pit	1910	972222
BR	496m N	Unspecified Pit	1970	919425
31	498m SW	Unspecified Disused Works	1970	813346
AY	498m S	Unspecified Disused Shafts	1991	918194
AY	498m S	Unspecified Disused Shafts	1987	918194
AY	498m S	Unspecified Disused Shafts	1970	888158
BE	499m SW	Brick Works	1909	883694

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

24

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 31**

ID	Location	Land Use	Date	Group ID
B	On site	Tanks	1966	104554



ID	Location	Land Use	Date	Group ID
M	77m N	Unspecified Tank	1912	145834
M	77m N	Unspecified Tank	1899	145834
A	171m N	Unspecified Tank	1959	135467
A	171m N	Unspecified Tank	1988	131259
A	171m N	Unspecified Tank	1959	135467
A	171m N	Unspecified Tank	1990	131259
R	204m N	Unspecified Tank	1990	135270
R	204m N	Unspecified Tank	1991	135270
R	204m N	Unspecified Tank	1988	135270
R	204m N	Unspecified Tank	1959	148503
R	207m N	Unspecified Tank	1994	126237
R	207m N	Unspecified Tank	1996	126237
R	207m N	Unspecified Tank	1992	126237
AC	229m N	Unspecified Tank	1959	140869
AC	229m N	Unspecified Tank	1959	140869
W	288m SW	Tanks	1899	132218
W	288m SW	Tanks	1912	132218
W	309m SW	Unspecified Tank	1912	134580
W	309m SW	Unspecified Tank	1899	134580
W	348m SW	Unspecified Tank	1963	111814
W	350m SW	Tanks	1963	104550
25	364m S	Unspecified Tank	1991	109411
BA	378m SE	Unspecified Tank	1912	111772

This data is sourced from Ordnance Survey / Groundsure.



2.3 Historical energy features

Records within 500m

42

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 31**

ID	Location	Land Use	Date	Group ID
H	4m S	Electricity Substation	1994	74634
H	4m S	Electricity Substation	1992	74634
H	4m S	Electricity Substation	1996	74634
H	5m S	Electricity Substation	1991	74634
C	52m SW	Electricity Substation	1996	80543
C	52m SW	Electricity Substation	1994	80543
C	52m SW	Electricity Substation	1992	80543
C	53m SW	Electricity Substation	1991	80543
C	53m SW	Electricity Substation	1991	80543
X	184m N	Electricity Substation	1959	76917
X	184m N	Electricity Substation	1959	76917
X	184m N	Electricity Substation	1988	76917
X	184m N	Electricity Substation	1991	76917
X	186m N	Electricity Substation	1996	67571
X	186m N	Electricity Substation	1992	67571
AA	216m E	Electricity Substation	1991	69376
AA	218m E	Electricity Substation	1996	69376
AA	218m E	Electricity Substation	1992	69376
AK	243m N	Electricity Substation	1959	68800
AK	243m N	Electricity Substation	1990	81134
AK	243m N	Electricity Substation	1991	81134
AK	243m N	Electricity Substation	1988	81134
AK	246m N	Electricity Substation	1996	74079



ID	Location	Land Use	Date	Group ID
AK	246m N	Electricity Substation	1994	74079
AK	246m N	Electricity Substation	1992	74079
AK	247m N	Electricity Substation	1959	83581
AL	251m SE	Electricity Substation	1966	70984
AL	253m SE	Electricity Substation	1980	70984
AL	253m SE	Electricity Substation	1992	70984
19	293m SW	Electricity Substation	1991	60005
AR	349m SE	Electricity Substation	1987	65529
AR	349m SE	Electricity Substation	1980	65529
AR	350m SE	Electricity Substation	1992	65529
BB	381m NE	Electricity Substation	1991	74857
BB	382m NE	Electricity Substation	1996	64624
BB	382m NE	Electricity Substation	1994	64624
BB	382m NE	Electricity Substation	1992	64624
W	400m SW	Electricity Substation	1988	67953
W	400m SW	Electricity Substation	1991	67953
BA	409m SE	Electricity Substation	1987	64496
BA	409m SE	Electricity Substation	1980	69194
BA	409m SE	Electricity Substation	1992	69194

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m	6
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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'.

Features are displayed on the Past land use - un-grouped map on **page 31**

ID	Location	Land Use	Date	Group ID
C	26m S	Filling Station	1994	1666



ID	Location	Land Use	Date	Group ID
C	26m S	Filling Station	1992	1666
C	27m S	Filling Station	1991	1666
C	27m S	Filling Station	1991	1666
8	75m SW	Filling Station	1966	1462
Y	193m SW	Filling Station	1991	1469

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m

13

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'.

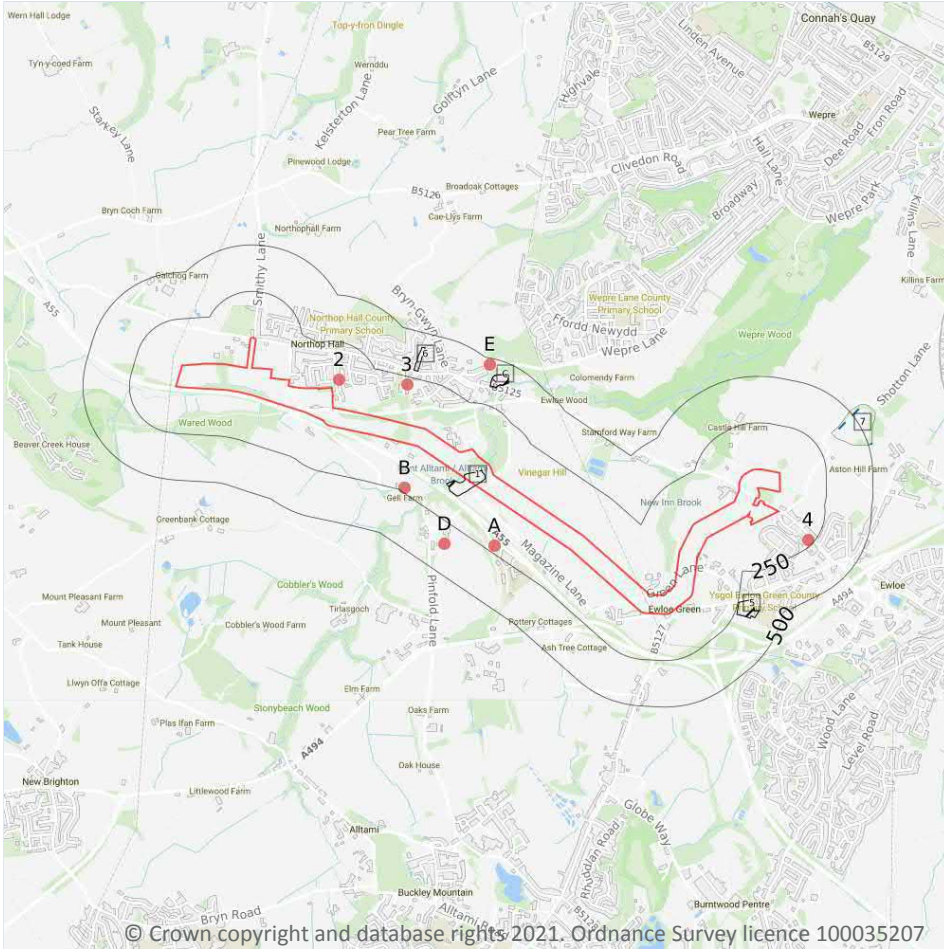
Features are displayed on the Past land use - un-grouped map on **page 31**

ID	Location	Land Use	Date	Group ID
I	40m E	Garage	1966	25015
I	42m E	Garage	1980	25015
AF	220m SE	Garage	1980	27631
AF	222m SE	Garage	1987	27121
AF	222m SE	Garage	1966	27121
AF	248m SE	Garage	1992	27631
AF	254m SE	Garage	1980	27631
AF	254m SE	Garage	1992	27631
BQ	490m SE	Garage	1987	27088
BQ	491m SE	Garage	1980	25582
BQ	492m SE	Garage	1992	27088
BQ	492m SE	Garage	1966	25582
BQ	492m SE	Garage	1966	25582

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



— Site Outline

Search buffers in metres (m)

- Active or recent landfill
- Historical landfill (EA/NRW)
- Historical landfill (LA/OS)
- Waste exemptions

3.1 Active or recent landfill

Records within 500m **1**

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation. Features are displayed on the Waste and landfill map on **page 54**

ID	Location	Details	
7	352m NE	Operator: D Morgan Plc Site Address: Old Aston Hill, Ewloe, Deeside, Flintshire, CH5 3AH	WML Number: 37019 EPR Reference: MOR001 Landfill type: A6 : Landfill taking other wastes Status: Closure IPPC Reference: - EPR Number: EAEP\EA\EPR/SP3394FL/V002

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



3.2 Historical landfill (BGS records)

Records within 500m	0
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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	1
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Landfill sites identified from Local Authority records and high detail historical mapping.

Features are displayed on the Waste and landfill map on **page 54**

ID	Location	Site address	Source	Data type
C	348m N	Refuse Tip	1966 mapping	Polygon

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

3.4 Historical landfill (EA/NRW records)

Records within 500m	4
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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.

Features are displayed on the Waste and landfill map on **page 54**

ID	Location	Details		
1	On site	Site Address: New Bridge Farm Licence Holder Address: -	Waste Licence: Yes Site Reference: 123/83 Waste Type: Inert, Commercial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 01/11/1983 Licence Surrender: 01/11/1986	Operator: - Licence Holder: A McAlpine and Sons (Northern) Limited First Recorded 31/12/1983 Last Recorded: 31/12/1985

ID	Location	Details		
5	254m E	Site Address: Land Adjacent to Ewloe C.P. School Licence Holder Address: -	Waste Licence: Yes Site Reference: 150/87 Waste Type: Inert, Industrial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 20/05/1987 Licence Surrender: 20/05/1989	Operator: - Licence Holder: F G Whitley and Sons Company Limited First Recorded 31/12/1987 Last Recorded: 20/05/1989
6	291m N	Site Address: Old Railway Line Licence Holder Address: -	Waste Licence: Yes Site Reference: B/W/8/22 Waste Type: Inert, Commercial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 07/01/1985 Licence Surrender: 30/08/1987	Operator: - Licence Holder: Mrs M Moore/Mrs V M Massey First Recorded 01/01/1980 Last Recorded: 31/01/1986
C	354m N	Site Address: Greenacres Licence Holder Address: -	Waste Licence: - Site Reference: BRE/50/2.94 Waste Type: Inert, Industrial, Commercial, Household, Special Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: Flintshire County Council First Recorded 31/12/1960 Last Recorded: 31/12/1970

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
35

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 54**

ID	Location	Site	Reference	Category	Sub-Category	Description
2	54m NE	Anwyl Construction Company Limited, Mitigation Land, Village Road, Northop Hall, Flintshire, CH76JF	NRW-WME027652	Using waste exemption	Not on a farm	Use of waste in construction
3	204m N	Anwyl Construction Company Limited, Phase 3, Village Road, Northop Hall, Flintshire, CH76LA	NRW-WME029875	Using waste exemption	Not on a farm	Use of waste in construction
A	215m SW	United Utilities PLC, Gwen Y Marl, Rhosemor Road, Northop Hall, Mold, Flintshire, CH76HB	NRW-WME034830	Storing waste exemption	Not on a farm	Storage of sludge
A	215m SW	United Utilities PLC, Gwen Y Marl, Rhosemor Road, Northop, Mold, CH76HB	NRW-WME035701	Storing waste exemption	Not on a farm	Storage of sludge
A	215m SW	United Utilities Water PLC, Gwen Y Marl, Rhosemor Road, Flintshire, CH76HB	NRW-WME025138	Storing waste exemption	Not on a farm	Storage of sludge
4	221m SE	Griffiths Groundworks civils, Boars Head, Holywell Road, Ewloe, Mold, Flintshire, CH53BS	NRW-WME044049	Using waste exemption	On a farm	Use of waste in construction
B	229m SW	D T Jones & Son, Tirlas Goch Farm, Pinfold Lane, Northop Hall, Yr Wyddgrug, CH76HE	NRW-WME020442	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
B	229m SW	D T Jones & Son, Tirlas Goch Farm, Pinfold Lane, Northop Hall, Yr Wyddgrug, CH76HE	NRW-WME020442	Storing waste exemption	On a farm	Storage of waste in secure containers
B	229m SW	D T Jones & Son, Tirlas Goch Farm, Pinfold Lane, Northop Hall, Yr Wyddgrug, CH76HE	NRW-WME020442	Using waste exemption	On a farm	Use of waste for a specified purpose



ID	Location	Site	Reference	Category	Sub-Category	Description
B	229m SW	D T Jones & Son, Tirlas Goch Farm, Pinfold Lane, Northop Hall, Yr Wyddgrug, CH76HE	NRW-WME020442	Using waste exemption	On a farm	Use of waste in construction
B	229m SW	D T Jones & Son, Tirlas Goch Farm, Pinfold Lane, Northop Hall, Yr Wyddgrug, CH76HE	NRW-WME020442	Treating waste exemption	On a farm	Cleaning, washing, spraying or coating relevant waste
B	229m SW	D T Jones & Son, Tirlas Goch Farm, Pinfold Lane, Northop Hall, Yr Wyddgrug, CH76HE	NRW-WME020442	Disposing of waste exemption	On a farm	Burning waste in the open
B	229m SW	D T Jones & Son, Tirlas Goch Farm, Pinfold Lane, Northop Hall, Yr Wyddgrug, CH76HE	NRW-WME020442	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
B	229m SW	D T Jones & Son, Tirlas Goch Farm, Pinfold Lane, Northop Hall, Yr Wyddgrug, CH76HE	NRW-WME020442	Treating waste exemption	On a farm	Sorting mixed waste
B	229m SW	D T Jones & Son, Tirlas Goch Farm, Pinfold Lane, Northop Hall, Yr Wyddgrug, CH76HE	NRW-WME020442	Storing waste exemption	On a farm	Storage of waste in a secure place
B	229m SW	D T Jones & Son, Tirlas Goch Farm, Pinfold Lane, Northop Hall, Yr Wyddgrug, CH76HE	NRW-WME020442	Treating waste exemption	On a farm	Recovery of scrap metal
B	229m SW	D T Jones & Son, Tirlas Goch Farm, Pinfold Lane, Northop Hall, Yr Wyddgrug, CH76HE	NRW-WME020442	Treating waste exemption	On a farm	Mechanical treatment of end-of-life tyres
B	229m SW	D T Jones & Son, Tirlas Goch Farm, Pinfold Lane, Northop Hall, Yr Wyddgrug, CH76HE	NRW-WME020442	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
B	229m SW	D T Jones & Son, Tirlas Goch Farm, Pinfold Lane, Northop Hall, Mold, Flintshire, CH7 6HE	NRW-WME052717	Storing waste exemption	On a farm	Storage of waste in a secure place



ID	Location	Site	Reference	Category	Sub-Category	Description
B	229m SW	D T Jones & Son, Tirlas Goch Farm, Pinfold Lane, Northop Hall, Mold, Flintshire, CH7 6HE	NRW-WME052717	Using waste exemption	On a farm	Use of waste in construction
B	229m SW	D T Jones & Son, Tirlas Goch Farm, Pinfold Lane, Northop Hall, Mold, Flintshire, CH7 6HE	NRW-WME052717	Treating waste exemption	On a farm	Sorting mixed waste
B	229m SW	D T Jones & Son, Tirlas Goch Farm, Pinfold Lane, Northop Hall, Mold, Flintshire, CH7 6HE	NRW-WME052717	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
B	229m SW	D T Jones & Son, Tirlas Goch Farm, Pinfold Lane, Northop Hall, Mold, Flintshire, CH7 6HE	NRW-WME052717	Treating waste exemption	On a farm	Recovery of scrap metal
B	229m SW	D T Jones & Son, Tirlas Goch Farm, Pinfold Lane, Northop Hall, Mold, Flintshire, CH7 6HE	NRW-WME052717	Disposing of waste exemption	On a farm	Burning waste in the open
B	229m SW	D T Jones & Son, Tirlas Goch Farm, Pinfold Lane, Northop Hall, Mold, Flintshire, CH7 6HE	NRW-WME052717	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
B	229m SW	D T Jones & Son, Tirlas Goch Farm, Pinfold Lane, Northop Hall, Mold, Flintshire, CH7 6HE	NRW-WME052717	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
B	229m SW	D T Jones & Son, Tirlas Goch Farm, Pinfold Lane, Northop Hall, Mold, Flintshire, CH7 6HE	NRW-WME052717	Using waste exemption	On a farm	Use of waste for a specified purpose
B	229m SW	D T Jones & Son, Tirlas Goch Farm, Pinfold Lane, Northop Hall, Mold, Flintshire, CH7 6HE	NRW-WME052717	Treating waste exemption	On a farm	Mechanical treatment of end-of-life tyres
B	229m SW	D T Jones & Son, Tirlas Goch Farm, Pinfold Lane, Northop Hall, Mold, Flintshire, CH7 6HE	NRW-WME052717	Treating waste exemption	On a farm	Cleaning, washing, spraying or coating relevant waste

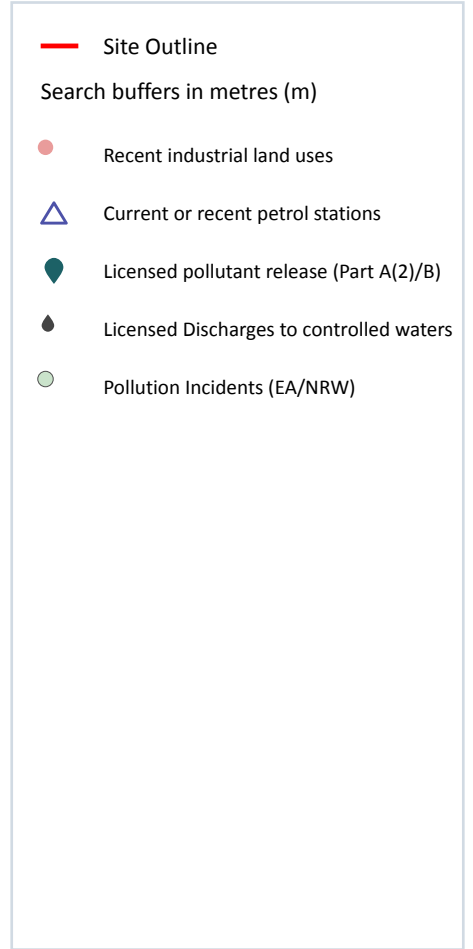
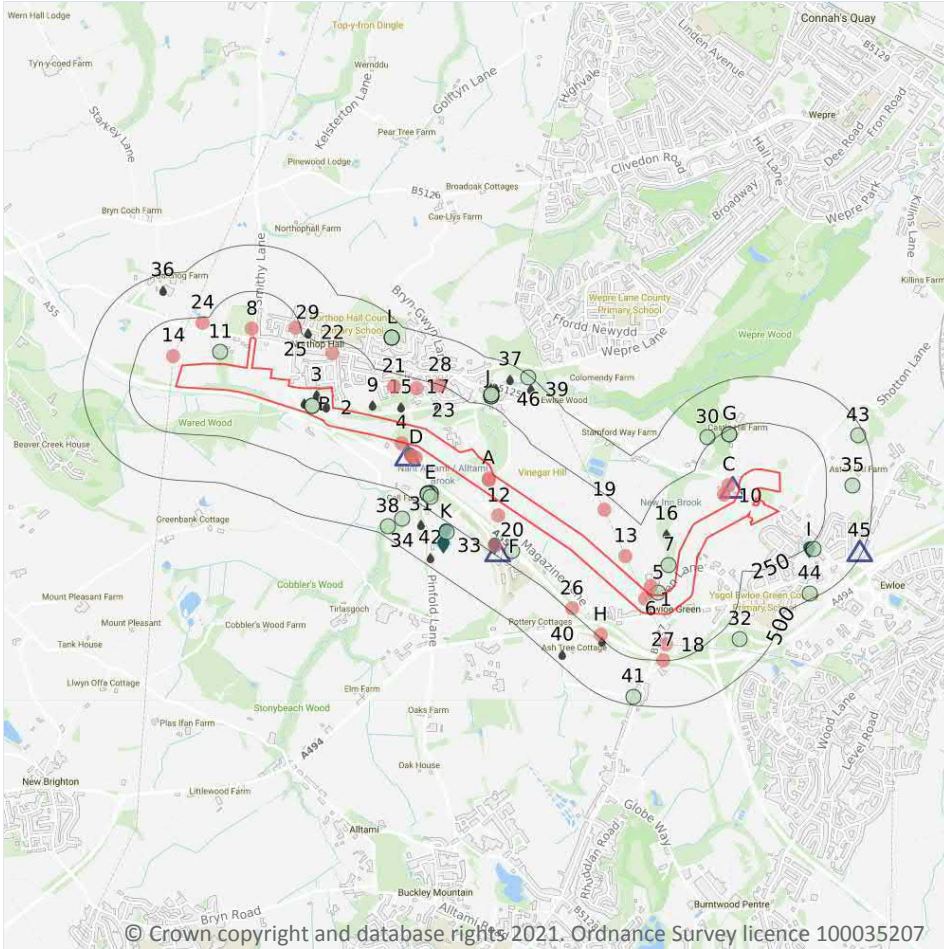


ID	Location	Site	Reference	Category	Sub-Category	Description
B	229m SW	D T Jones & Son, Tirlas Goch Farm, Pinfold Lane, Northop Hall, Mold, Flintshire, CH7 6HE	NRW-WME052717	Storing waste exemption	On a farm	Storage of waste in secure containers
D	358m SW	Pinfold Lane, Alltami, Mold, Flintshire, ch76nz	NRW-WME001324	Treating waste exemption	Waste Exemption - Non-Agricultural	Preparatory treatments (baling, sorting, shredding etc)
D	358m SW	Pinfold Lane, Alltami, Mold, Flintshire, ch76nz	NRW-WME001324	Storing waste exemption	Waste Exemption - Agricultural and Non-Agricultural	Storage of waste in a secure place
E	463m N	Pentre Farm, Wepre Lane, Northop Hall, Yr Wyddgrug, Flintshire, CH76LD	NRW-WME019456	Disposing of waste exemption	On a farm	Burning waste in the open
E	463m N	Pentre Farm, Wepre Lane, Northop Hall, Yr Wyddgrug, Flintshire, CH76LD	NRW-WME019456	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
E	463m N	Pentre Farm, Wepre Lane, Northop Hall, Yr Wyddgrug, Flintshire, CH76LD	NRW-WME019456	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



4.1 Recent industrial land uses

Records within 250m

26

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 61**

ID	Location	Company	Address	Activity	Category
1	On site	Pylon	Clwyd, CH5	Electrical Features	Infrastructure and Facilities
A	On site	Shaft (Disused)	Clwyd, CH7	Unspecified Quarries Or Mines	Extractive Industries
A	On site	Tank	Clwyd, CH7	Tanks (Generic)	Industrial Features

ID	Location	Company	Address	Activity	Category
4	4m S	Electricity Sub Station	Clwyd, CH7	Electrical Features	Infrastructure and Facilities
6	37m NE	J Evans & Sons	Ewloe Green Farm, Green Lane, Ewloe Green, Deeside, Clwyd, CH5 3BP	Dairy Farming	Farming
8	48m N	Gas Governor	Clwyd, CH7	Gas Features	Infrastructure and Facilities
C	55m W	Newbridge Service Station	Holywell Road, Ewloe, Deeside, Clwyd, CH5 3BS	Petrol and Fuel Stations	Road and Rail
D	57m SW	Electricity Sub Station	Clwyd, CH7	Electrical Features	Infrastructure and Facilities
10	59m NW	H W Oultram	Newbridge Farm & Filling Station, Holywell Road, Ewloe, Deeside, Clwyd, CH5 3BS	Dairy Farming	Farming
D	60m S	Shell Car Wash	Expressway, Northop Hall, Mold, Clwyd, CH7 6HF	Vehicle Cleaning Services	Personal, Consumer and Other Services
D	63m S	Shell Service Station	Expressway, Northop Hall, Mold, Clwyd, CH7 6HF	Petrol and Fuel Stations	Road and Rail
12	66m SW	Chimney	Clwyd, CH7	Chimneys	Industrial Features
13	70m NE	Pylon	Clwyd, CH5	Electrical Features	Infrastructure and Facilities
14	70m NW	Pylon	Clwyd, CH7	Electrical Features	Infrastructure and Facilities
18	162m S	Pylon	Clwyd, CH5	Electrical Features	Infrastructure and Facilities
19	180m NE	Pylon	Clwyd, CH5	Electrical Features	Infrastructure and Facilities
21	181m N	Shaft (Disused)	Clwyd, CH7	Unspecified Quarries Or Mines	Extractive Industries
22	186m N	Electricity Sub Station	Clwyd, CH7	Electrical Features	Infrastructure and Facilities
23	202m N	Tank	Clwyd, CH7	Tanks (Generic)	Industrial Features
F	215m SW	Shell Service Station	Westbound A55 Expressway, Northop Hall, Mold, Clwyd, CH7 6HB	Petrol and Fuel Stations	Road and Rail
24	221m N	Mast (Telecommunication)	Clwyd, CH7	Telecommunications Features	Infrastructure and Facilities



ID	Location	Company	Address	Activity	Category
25	223m E	Electricity Sub Station	Clwyd, CH7	Electrical Features	Infrastructure and Facilities
26	234m SW	Gantry	Clwyd, CH5	Travelling Cranes and Gantries	Industrial Features
H	237m SW	Gantry	Clwyd, CH5	Travelling Cranes and Gantries	Industrial Features
27	248m S	Gantry	Clwyd, CH7	Travelling Cranes and Gantries	Industrial Features
28	249m N	Electricity Sub Station	Clwyd, CH7	Electrical Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	4
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Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on **page 61**

ID	Location	Company	Address	LPG	Status
C	39m W	DRAGON	Holywell Road, Ewloe, Deeside, Flintshire, CH5 3BS	No	Open
D	61m S	SHELL	A55 Expressway Eastbound, Northop Hall, Mold, Flintshire, CH7 6HF	Yes	Open
F	228m SW	SHELL	A55 Expressway Westbound, Northop Hall, Mold, Flintshire, CH7 6HB	Yes	Open
45	483m SE	OBSOLETE	Liverpool Road, Ewloe, Deeside, Flintshire, CH5 3AR	Not Applicable	Obsolete

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	0
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High voltage underground electricity transmission cables.

This data is sourced from National Grid.



4.4 Gas pipelines

Records within 500m	0
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High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0
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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
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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
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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
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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

0

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.

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m

0

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

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

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

Records within 500m

6

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.

Features are displayed on the Current industrial land use map on **page 61**

ID	Location	Address	Details	
D	61m S	Shell Northop Hall, Eastbound A55 Expressway, Northop Hall, Mold, Flintshire, CH7 6HF	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
F	214m SW	Shell Oil UK Ltd, Westbound A55 Expressway, Northop Hall, Mold, Flintshire, CH7 6HF	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
I	263m SE	Ewloe Service Station, Holywell Road, Ewloe, Flintshire, CH5 3BS	Process: Waste Oil Burner 0.4 MW Status: New Legislation Applies Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
K	296m SW	Deeside Truck Services, Pinfold Lane, Alltami, Mold, Flintshire, CH7 6NY	Process: Waste Oil Burner 0.4 MW Status: New Legislation Applies Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

ID	Location	Address	Details	
K	301m SW	Hunter Steel Treatments Ltd, Pinfold Lane, Alltami, Flintshire, CH7 6ES	Process: Coating Processes Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
33	363m SW	Parry's Landfill Limited, Pinfold Lane, Mold, CH7 6NY	Process: Quarry Processes Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m	0
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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	24
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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 61**

ID	Location	Address	Details	
2	On site	NORTHOP HALL SWERAGE SYSTEM OFF ST., NORTHOP HALL SWERAGE SYSTEM OFF, SWERAGE SYSTEM OFF ST.MARY S D	Effluent Type: UNSPECIFIED Permit Number: CM0025901 Permit Version: 1 Receiving Water: UN-NAMED TRIB. OF WEPRE BROOK	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 25/11/1964 Effective Date: 25/11/1964 Revocation Date: 22/12/1992
3	On site	Northop Hall CSO, Nr 33 Elm Drive, NORTHOP HALL, Mold, CH7 6JJ	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: CM0168401 Permit Version: 3 Receiving Water: SURFACE WATER SEWER	Status: Effective Issue date: 25/09/2019 Effective Date: 25/09/2019 Revocation Date: -

ID	Location	Address	Details	
B	On site	NORTHOP HALL HOUSING SITE, HOUSING SITE	Effluent Type: UNSPECIFIED Permit Number: CM0078901 Permit Version: 1 Receiving Water: WEPR BROOK	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 29/07/1974 Effective Date: 29/07/1974 Revocation Date: 05/04/1995
9	54m N	NORTHOP HALL STW (CLOSED)	Effluent Type: UNSPECIFIED Permit Number: CM0001101 Permit Version: 1 Receiving Water: WEPRE BROOK	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 31/01/1966 Effective Date: 31/01/1966 Revocation Date: 22/12/1992
15	80m N	EWLOE SERVICE STATION EWLOE HAWARDE, EWLOE SERVICE STATION EWLOE HAWA, EWLOE HAWARDEN CLWYD, HAWARDEN CLWYD, CLWYD	Effluent Type: UNSPECIFIED Permit Number: CM0159601 Permit Version: 1 Receiving Water: TRIB WEPRE BROOK	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 11/04/1988 Effective Date: 11/04/1988 Revocation Date: 09/12/1994
16	106m NW	EWLOE GREEN	Effluent Type: UNSPECIFIED Permit Number: CM0080001 Permit Version: 1 Receiving Water: NEW INN BROOK	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 15/01/1975 Effective Date: 15/01/1975 Revocation Date: 26/04/1995
17	134m NE	NORTHOP HALL	Effluent Type: UNSPECIFIED Permit Number: CM0086101 Permit Version: 1 Receiving Water: WEPRE BROOK	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 05/09/1979 Effective Date: 05/09/1979 Revocation Date: 29/01/1993
H	261m SW	HAWARDEN CHEAPSIDE OPENCAST COAL SI, HAWARDEN CHEAPSIDE OPENCAST COAL, CHEAPSIDE OPENCAST COAL SITE	Effluent Type: UNSPECIFIED Permit Number: CM0148502 Permit Version: 1 Receiving Water: NEW INN BROOK	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 04/08/1986 Effective Date: 04/08/1986 Revocation Date: 23/12/1992
29	270m N	NORTHOP HALL OFF ST MARYS DRIV, CH7 6JX	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: CM0168401 Permit Version: 2 Receiving Water: UNNAMED W/C	Status: Effective Issue date: 08/09/2010 Effective Date: 08/09/2010 Revocation Date: -
J	287m N	HOUSING SITE NORTHOP HALL PENTRE M, HOUSING SITE NORTHOP HALL PENTR, NORTHOP HALL PENTRE MOCH, PENTRE MOCH, PENTRE MOC	Effluent Type: UNSPECIFIED Permit Number: CM0041601 Permit Version: 1 Receiving Water: WEPRE BROOK	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 25/04/1967 Effective Date: 25/04/1967 Revocation Date: 05/04/1995



ID	Location	Address	Details	
J	297m N	ROSE COTTAGE PINFOLD LANE MOLD, ROSE COTTAGE, PINFOLD LANE, MOLD, FLINTSHIRE, CH7 6HE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CG0394201 Permit Version: 1 Receiving Water: SURFACE WATER VIA SOAKAWAY	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY Issue date: 04/06/2001 Effective Date: 04/06/2001 Revocation Date: -
31	339m SW	BROCK QUARRY PINFOLD LANE ALLTAMI, BROCK QUARRY, PINFOLD LANE, ALLTAMI, NEAR MOLD, CH7 6NZ	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE (CONTAM SURFACE WATER, NOT WASTE SIT Permit Number: CG0387501 Permit Version: 1 Receiving Water: UNNAMED TRIB OF ALLTAMI BROOK	Status: Effective Issue date: 23/06/2000 Effective Date: 23/06/2000 Revocation Date: -
J	343m N	Northop Hall SPS, Chapel House Village Rd, NORTHOP HALL, MOLD, CH7 6LE	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: CM0194501 Permit Version: 3 Receiving Water: WEPRE BROOK	Status: Effective Issue date: 17/12/2019 Effective Date: 17/12/2019 Revocation Date: -
J	343m N	Northop Hall SPS, Chapel House Village Rd, NORTHOP HALL, MOLD, CH7 6LE	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: CM0194501 Permit Version: 3 Receiving Water: WEPRE BROOK	Status: Effective Issue date: 17/12/2019 Effective Date: 17/12/2019 Revocation Date: -
J	344m N	NORTHOP HALL PS	Effluent Type: UNSPECIFIED Permit Number: CM0036101 Permit Version: 1 Receiving Water: WEPRE BROOK	Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 15/07/1966 Effective Date: 15/07/1966 Revocation Date: 08/02/2002
J	344m N	NORTHOP HALL PS	Effluent Type: UNSPECIFIED Permit Number: CM0194501 Permit Version: 1 Receiving Water: WEPRE BROOK	Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 19/10/1989 Effective Date: 19/10/1989 Revocation Date: 07/02/2002
J	344m N	NORTHOP HALL PS	Effluent Type: - Permit Number: CM0015301 Permit Version: 1 Receiving Water: WEPRE BROOK	Status: Effective Issue date: 15/03/1963 Effective Date: 15/03/1963 Revocation Date: -



ID	Location	Address	Details	
J	347m N	NORTHOP HALL PUMPING STATION, NORTHOP HALL	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: CM0036101 Permit Version: 2 Receiving Water: WEPRE BROOK	Status: Effective Issue date: 08/02/2002 Effective Date: 09/02/2002 Revocation Date: -
J	347m N	NORTHOP HALL PUMPING STATION, NORTHOP HALL	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: CM0194501 Permit Version: 2 Receiving Water: WEPRE BROOK	Status: Effective Issue date: 08/02/2002 Effective Date: 09/02/2002 Revocation Date: -
36	418m N	NORTHOP HALL HIGHFIELD LIVERY	Effluent Type: UNSPECIFIED Permit Number: CM0148701 Permit Version: 1 Receiving Water: TO LAND	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 20/08/1986 Effective Date: 20/08/1986 Revocation Date: 18/09/1992
37	426m NE	NORTHOP HALL NR.VINEGAR HILL NORTHOP, NORTHOP HALL NR.VINEGAR HILL NOR, NR.VINEGAR HILL NORTHOP HALL SDW, NORTHOP HALL SDW.	Effluent Type: UNSPECIFIED Permit Number: CM0026001 Permit Version: 1 Receiving Water: WEPRE BROOK	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 25/11/1964 Effective Date: 25/11/1964 Revocation Date: 22/12/1992
39	451m NE	NORTHOP HALL 4 ELM BANK, 4 ELM BANK	Effluent Type: UNSPECIFIED Permit Number: CM0009401 Permit Version: 1 Receiving Water: WEPRE BROOK	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 04/12/1970 Effective Date: 04/12/1970 Revocation Date: 02/02/1994
40	453m SW	HAWARDEN CHEAPSIDE OPENCAST COAL SI, HAWARDEN CHEAPSIDE OPENCAST COAL, CHEAPSIDE OPENCAST COAL SITE	Effluent Type: UNSPECIFIED Permit Number: CM0148501 Permit Version: 1 Receiving Water: NEW INN BROOK	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 04/08/1986 Effective Date: 04/08/1986 Revocation Date: 23/12/1992
42	460m SW	PARRYS QUARRY PINFOLD LANE ALLTAMI, PARRYS QUARRY, PINFOLD LANE, ALLTAMI NEAR MOLD, Flintshire, CH7 6HE	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE (CONTAM SURFACE WATER, NOT WASTE SIT Permit Number: CG0392101 Permit Version: 1 Receiving Water: ALLTAMI BROOK VIA DRAIN	Status: Effective Issue date: 14/02/2002 Effective Date: 14/02/2002 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	0
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Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

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

4.15 Pollutant release to public sewer

Records within 500m	0
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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	0
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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.

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

4.17 List 2 Dangerous Substances

Records within 500m	0
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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.

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m	32
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Records of substantiated pollution incidents. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

Features are displayed on the Current industrial land use map on **page 61**

ID	Location	Details	
B	On site	Incident Date: 17/04/2016 Incident Identification: 1601792 Pollutant: - Pollutant Description: -	Water Impact: Category 3 (Minor) Land Impact: No Details Air Impact: No Details
B	On site	Incident Date: 17/04/2016 Incident Identification: 1601792 Pollutant: Inert Materials and Waste Pollutant Description: Soils and Clay	Water Impact: Category 3 (Minor) Land Impact: No Details Air Impact: No Details
5	11m N	Incident Date: 05/11/2015 Incident Identification: 1385956 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: - Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
7	46m W	Incident Date: 08/07/2002 Incident Identification: 89900 Pollutant: Agricultural Materials and Wastes Pollutant Description: Other Agricultural Material or Waste	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
11	64m N	Incident Date: 11/11/2014 Incident Identification: 1293682 Pollutant: Specific Waste Materials Pollutant Description: Other Specific Waste Material	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
E	170m SW	Incident Date: 12/04/2016 Incident Identification: 1601650 Pollutant: - Pollutant Description: -	Water Impact: Category 3 (Minor) Land Impact: Other Air Impact: Other
E	170m SW	Incident Date: 12/04/2016 Incident Identification: 1601650 Pollutant: Inert Materials and Waste Pollutant Description: Mineral Materials and Wastes	Water Impact: Category 3 (Minor) Land Impact: Other Air Impact: Other
E	179m SW	Incident Date: 15/04/2016 Incident Identification: 1601753 Pollutant: Inert Materials and Waste Pollutant Description: Soils and Clay	Water Impact: Category 2 (Significant) Land Impact: No Details Air Impact: No Details
20	180m SW	Incident Date: 09/05/2014 Incident Identification: 1234093 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
E	182m SW	Incident Date: 22/04/2016 Incident Identification: 1601915 Pollutant: - Pollutant Description: -	Water Impact: Category 3 (Minor) Land Impact: Other Air Impact: Other



ID	Location	Details	
E	182m SW	Incident Date: 22/04/2016 Incident Identification: 1601915 Pollutant: Inert Materials and Waste Pollutant Description: Soils and Clay	Water Impact: Category 3 (Minor) Land Impact: Other Air Impact: Other
E	187m SW	Incident Date: 16/03/2017 Incident Identification: 1701328 Pollutant: Contaminated Water Pollutant Description: Suspended Solids	Water Impact: Category 2 (Significant) Land Impact: No Details Air Impact: No Details
G	227m NW	Incident Date: 20/02/2017 Incident Identification: 1700866 Pollutant: - Pollutant Description: -	Water Impact: No Details Land Impact: Category 4 (No Impact) Air Impact: No Details
G	227m NW	Incident Date: 20/02/2017 Incident Identification: 1700866 Pollutant: Sewage Material Pollutant Description: Final Effluent	Water Impact: No Details Land Impact: Category 4 (No Impact) Air Impact: No Details
I	277m SE	Incident Date: 05/10/2002 Incident Identification: 112815 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
30	282m NW	Incident Date: 02/10/2001 Incident Identification: 34135 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
K	294m SW	Incident Date: 20/02/2003 Incident Identification: 138193 Pollutant: Inorganic Chemicals/Products Pollutant Description: Other Inorganic Chemical or Product	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
J	304m N	Incident Date: 24/03/2017 Incident Identification: 1701503 Pollutant: Inert Materials and Waste Pollutant Description: Soils and Clay	Water Impact: Category 3 (Minor) Land Impact: No Details Air Impact: No Details
J	304m N	Incident Date: 24/03/2017 Incident Identification: 1701503 Pollutant: - Pollutant Description: -	Water Impact: Category 3 (Minor) Land Impact: No Details Air Impact: No Details
J	309m N	Incident Date: 28/03/2017 Incident Identification: 1701565 Pollutant: Inert Materials and Waste Pollutant Description: Soils and Clay	Water Impact: Category 3 (Minor) Land Impact: No Details Air Impact: No Details



ID	Location	Details	
J	309m N	Incident Date: 28/03/2017 Incident Identification: 1701565 Pollutant: - Pollutant Description: -	Water Impact: Category 3 (Minor) Land Impact: No Details Air Impact: No Details
32	349m SE	Incident Date: 16/09/2013 Incident Identification: 1159521 Pollutant: Contaminated Water Pollutant Description: Firefighting Run-Off	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
34	369m SW	Incident Date: 01/12/2008 Incident Identification: 638020 Pollutant: Agricultural Materials and Wastes Pollutant Description: Slurry and Dilute Slurry	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
35	389m E	Incident Date: 02/08/2003 Incident Identification: 178524 Pollutant: Inert Materials and Wastes Pollutant Description: Soils and Clay	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
L	420m NE	Incident Date: 03/09/2002 Incident Identification: 105091 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Composted Material	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
L	420m NE	Incident Date: 03/09/2002 Incident Identification: 105091 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
L	420m NE	Incident Date: 03/09/2002 Incident Identification: 105091 Pollutant: Inert Materials and Wastes:General Biodegradable Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes:Composted Material	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
38	448m SW	Incident Date: 13/12/2005 Incident Identification: 365708 Pollutant: Inert Materials and Wastes Pollutant Description: Soils and Clay	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
41	453m S	Incident Date: 10/07/2015 Incident Identification: 1353756 Pollutant: Inert Materials and Wastes Pollutant Description: Other Inert Material or Waste	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
43	466m NE	Incident Date: 25/01/2002 Incident Identification: 54360 Pollutant: Inert Materials and Wastes Pollutant Description: Soils and Clay	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)



ID	Location	Details	
44	469m SE	Incident Date: 04/09/2002 Incident Identification: 105420 Pollutant: Oils and Fuel Pollutant Description: Lubricating Oils	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
46	490m NE	Incident Date: 15/07/2002 Incident Identification: 91628 Pollutant: Oils and Fuel Pollutant Description: Mixed/Waste Oils	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)

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

4.19 Pollution inventory substances

Records within 500m	0
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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
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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.

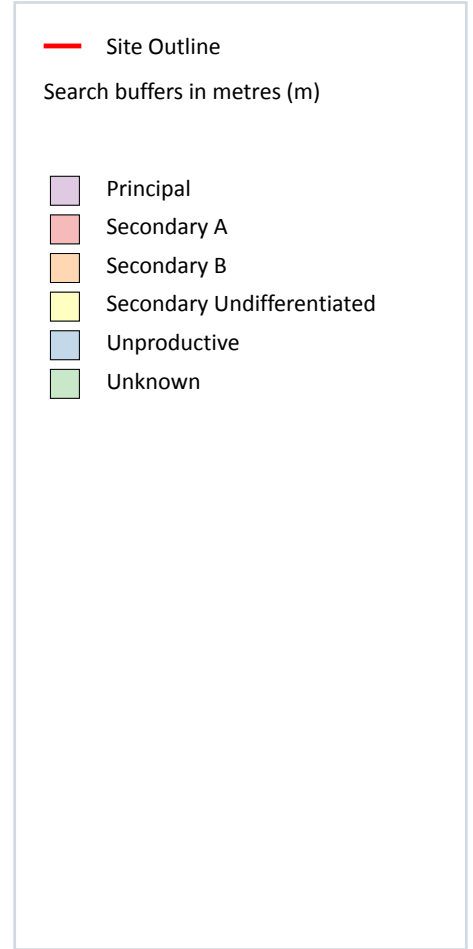
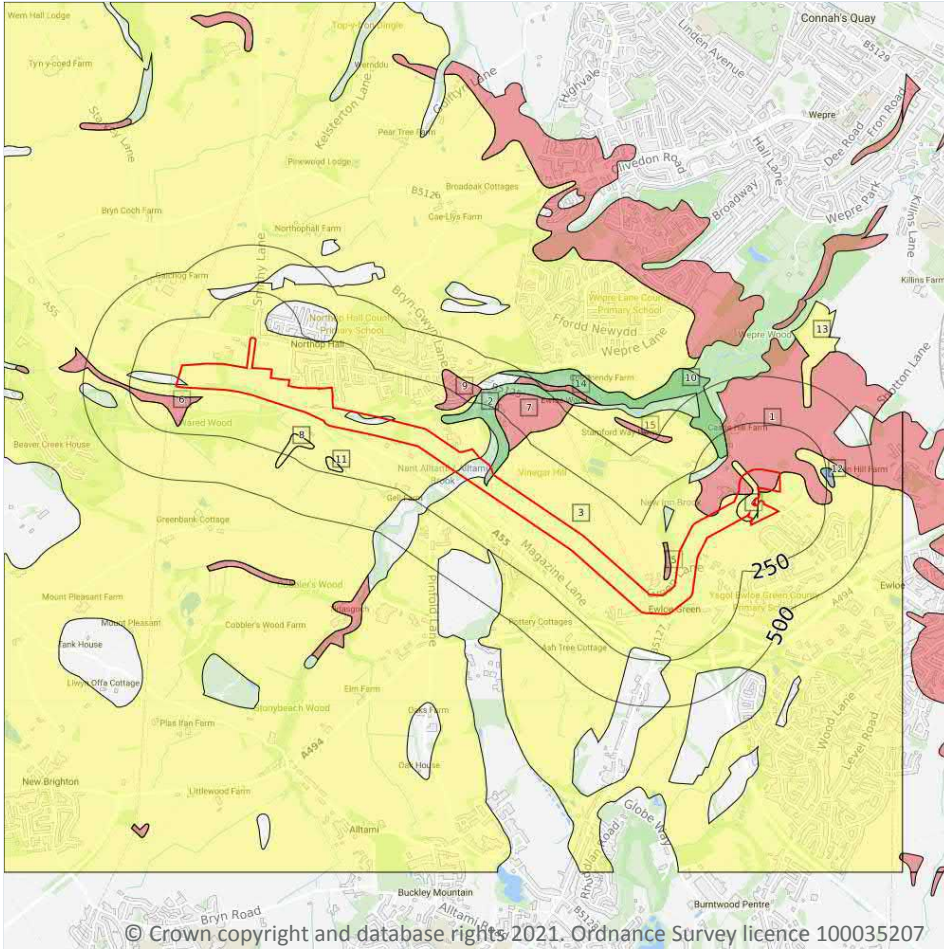
4.21 Pollution inventory radioactive waste

Records within 500m	0
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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



5.1 Superficial aquifer

Records within 500m

15

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 75**

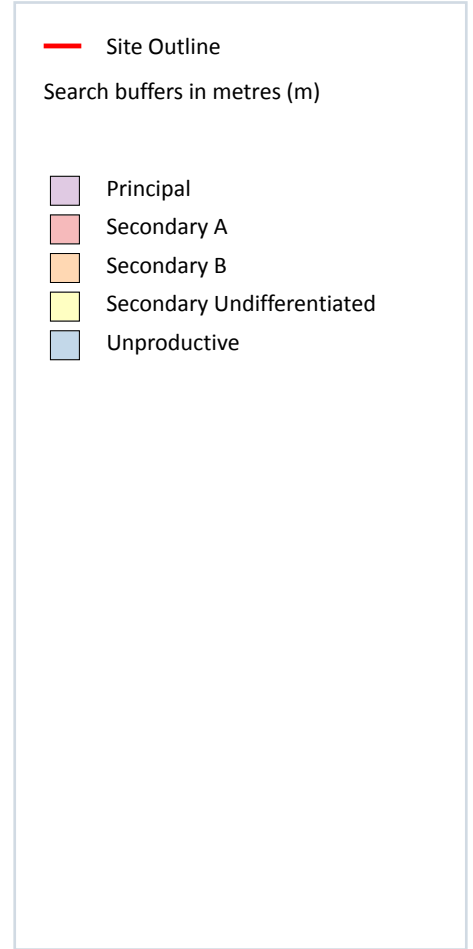
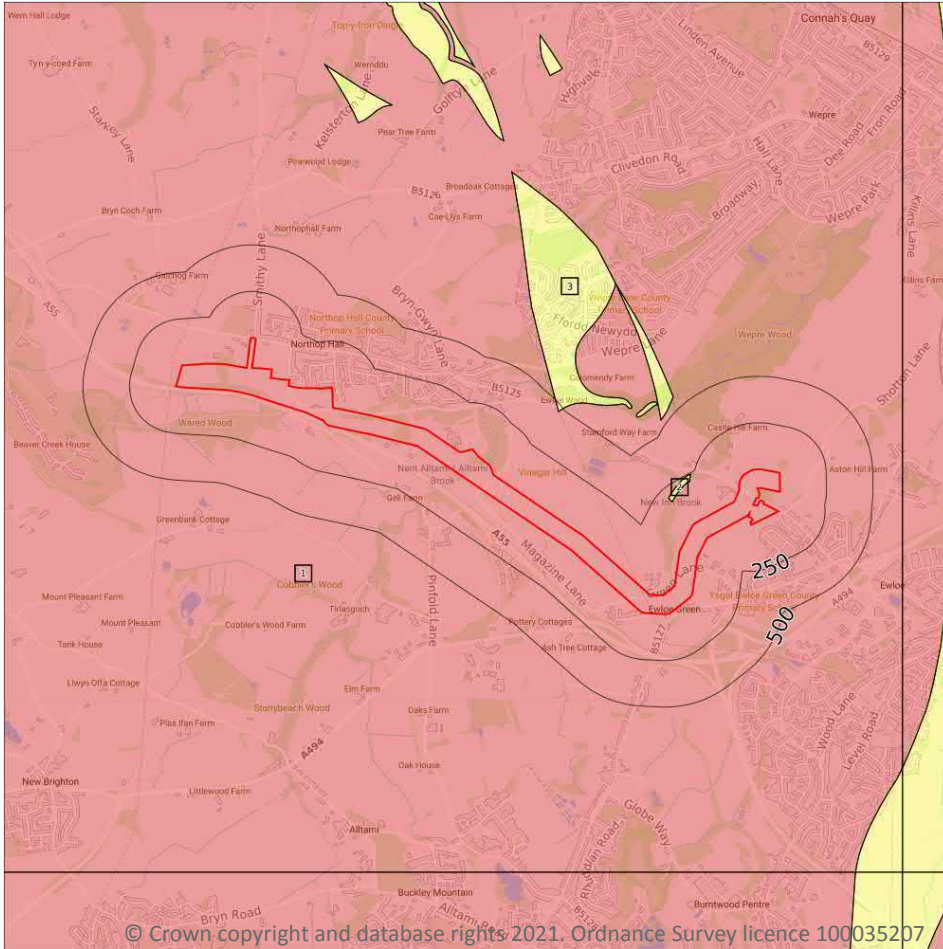
ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	On site	Unknown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

ID	Location	Designation	Description
3	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
4	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
5	33m W	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
6	45m S	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
7	126m NE	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
8	128m SW	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
9	129m NE	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
10	138m NW	Unknown	Unknown
11	164m S	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
12	221m E	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
13	379m N	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
14	418m NE	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
15	426m 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



5.2 Bedrock aquifer

Records within 500m

3

Aquifer status of groundwater held within bedrock geology.

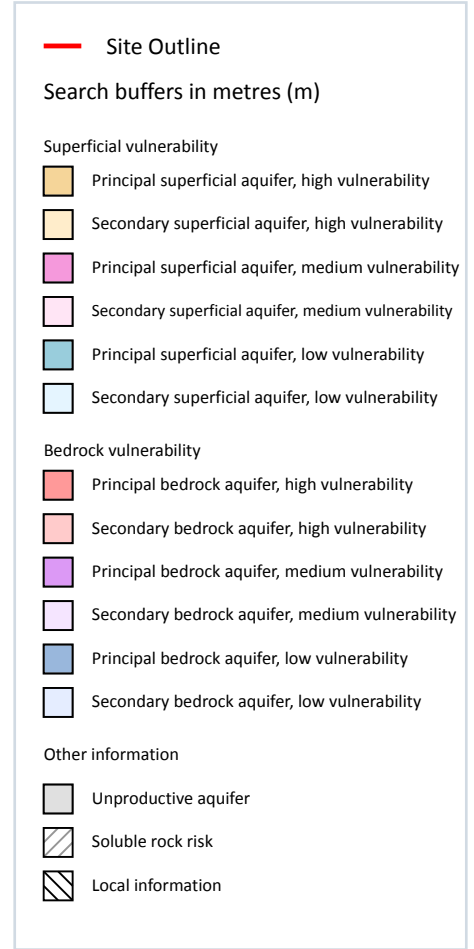
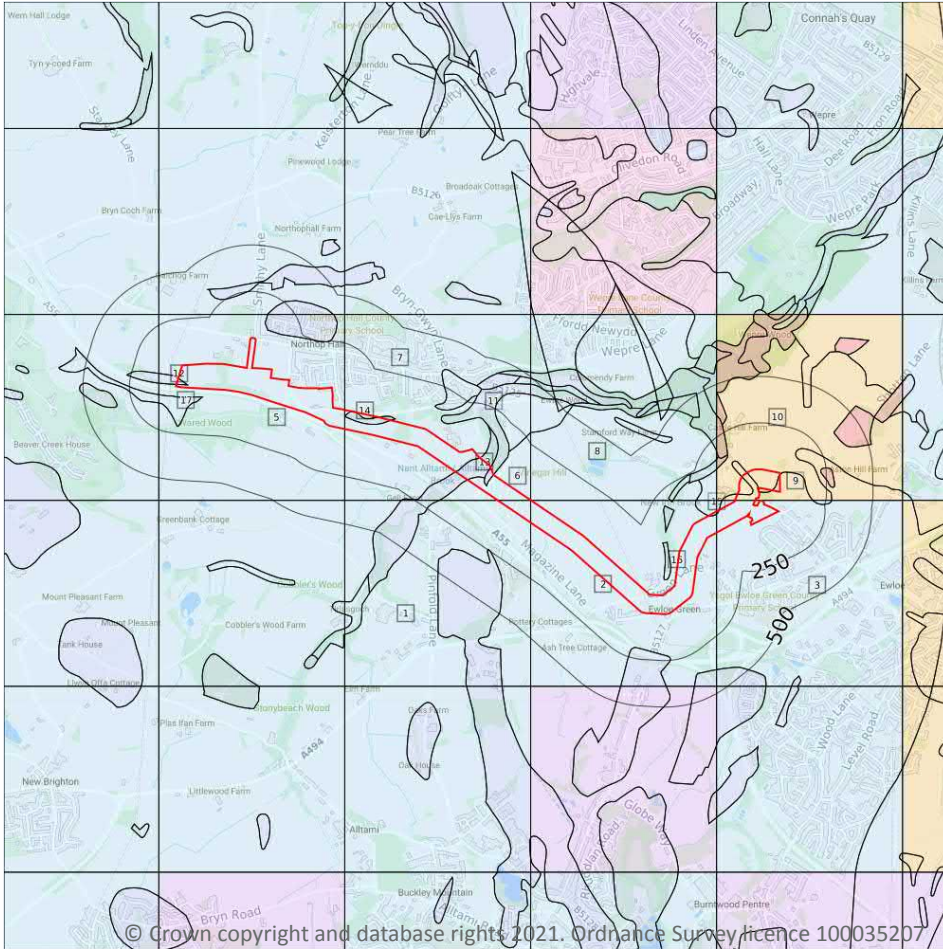
Features are displayed on the Bedrock aquifer map on **page 77**

ID	Location	Designation	Description
1	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
2	168m NW	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

ID	Location	Designation	Description
3	471m NE	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

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

17

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 79**



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
2	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
3	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
4	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
5	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
6	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
7	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
8	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
9	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: <90% Recharge potential: High	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
10	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: <90% Recharge potential: High	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
11	On site	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: Unknown (lakes+landslip) Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
12	On site	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
13	On site	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
14	On site	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
15	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
16	33m W	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
17	45m S	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low 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

0

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

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



5.5 Groundwater vulnerability- local information

Records on site

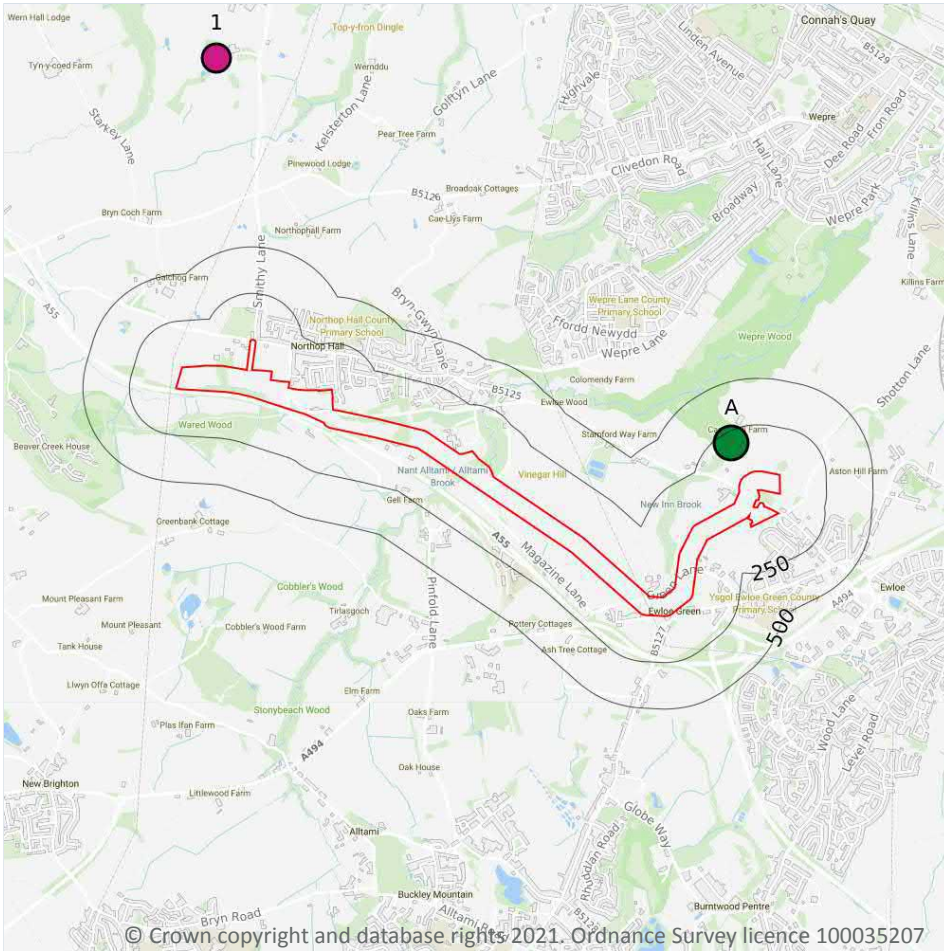
0

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



5.6 Groundwater abstractions

Records within 2000m

3

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.

Features are displayed on the Abstractions and Source Protection Zones map on **page 84**

ID	Location	Details	
A	190m NW	Status: Historical Licence No: 24/67/10/0126 Details: Water Bottling Direct Source: EAW Groundwater Point: 50M DEEP, 200MM DIA. BOREHOLE Data Type: Point Name: Grant-Findlay Easting: 329080 Northing: 367320	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 07/06/1996 Expiry Date: - Issue No: 100 Version Start Date: 07/06/1996 Version End Date: -
A	190m NW	Status: Historical Licence No: 24/67/10/0136 Details: Water Bottling Direct Source: EAW Groundwater Point: 50M DEEP, 200MM DIA. BOREHOLE Data Type: Point Name: Grant-Findlay Easting: 329080 Northing: 367320	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 17/07/2001 Expiry Date: 17/07/2004 Issue No: 1 Version Start Date: 01/04/2003 Version End Date: -
1	1527m N	Status: Historical Licence No: 24/67/10/0014 Details: General Farming & Domestic Direct Source: EAW Groundwater Point: WELL Data Type: Point Name: Charlton Easting: 326310 Northing: 369390	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 09/08/1966 Expiry Date: - Issue No: 100 Version Start Date: 09/08/1966 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m	1
-----------------------------	----------

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 84**

ID	Location	Details	
-	1879m SE	Status: Historical Licence No: 24/67/10/0065 Details: Spray Irrigation - Direct Direct Source: EAW Surface Water Point: GROOMSDALE BROOK Data Type: Point Name: Hawarden Golf Club Ltd Easting: 330770 Northing: 365730	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 06/06/1967 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2004 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m

2

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.

Features are displayed on the Abstractions and Source Protection Zones map on **page 84**

ID	Location	Details	
A	190m NW	Status: Historical Licence No: 24/67/10/0126 Details: Water Bottling Direct Source: EAW Groundwater Point: 50M DEEP, 200MM DIA. BOREHOLE Data Type: Point Name: Grant-Findlay Easting: 329080 Northing: 367320	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 07/06/1996 Expiry Date: - Issue No: 100 Version Start Date: 07/06/1996 Version End Date: -
A	190m NW	Status: Historical Licence No: 24/67/10/0136 Details: Water Bottling Direct Source: EAW Groundwater Point: 50M DEEP, 200MM DIA. BOREHOLE Data Type: Point Name: Grant-Findlay Easting: 329080 Northing: 367320	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 17/07/2001 Expiry Date: 17/07/2004 Issue No: 1 Version Start Date: 01/04/2003 Version End Date: -

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)

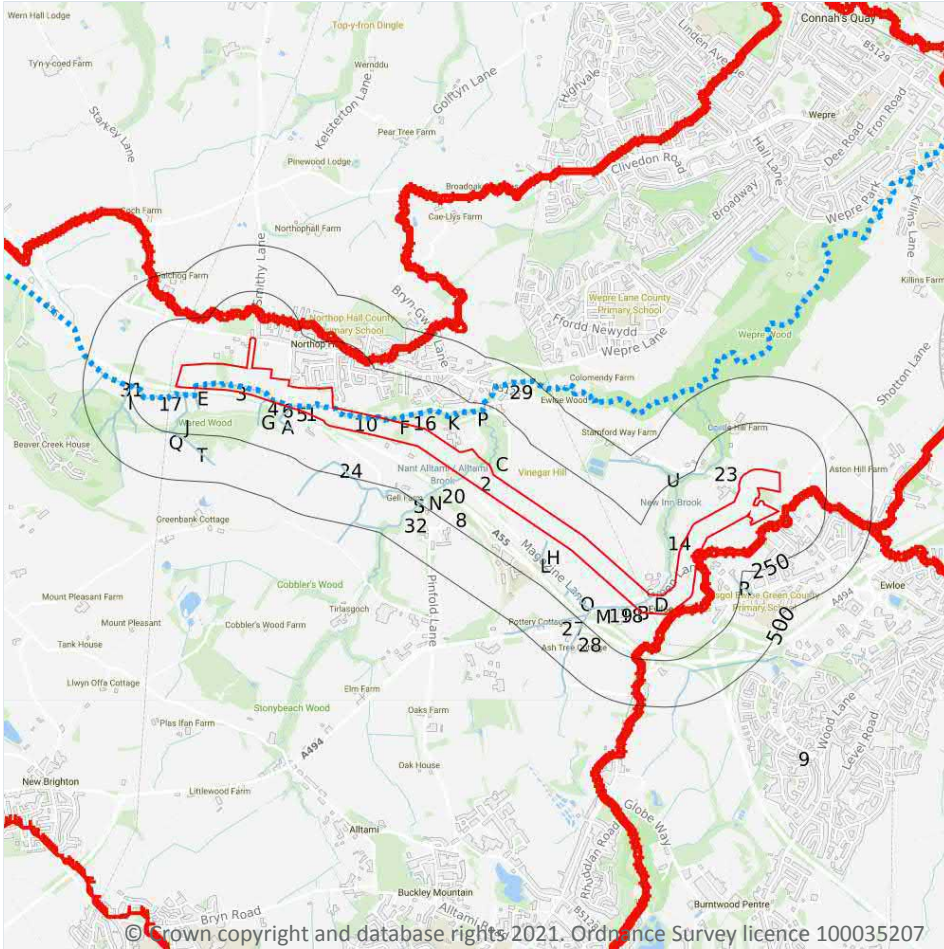
Records within 500m

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

49

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 88**

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



ID	Location	Type of water feature	Ground level	Permanence	Name
3	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
4	On site	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
5	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
6	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
10	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)	New Inn Brook
C	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Nant Alltami
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	New Inn Brook
E	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	New Inn Brook
F	11m N	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
F	11m N	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
14	14m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	New Inn Brook
G	27m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	32m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	36m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
16	39m N	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
17	40m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	40m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	40m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	40m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
18	61m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	New Inn Brook
19	69m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	New Inn Brook
K	69m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
20	86m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Nant Alltami



ID	Location	Type of water feature	Ground level	Permanence	Name
L	133m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	137m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	New Inn Brook
23	145m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	New Inn Brook
N	153m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Nant Alltami
O	156m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	173m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
24	184m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	200m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
27	204m SW	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
28	204m SW	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
P	206m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
R	213m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
29	217m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Nant Gwepra



ID	Location	Type of water feature	Ground level	Permanence	Name
S	233m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
31	234m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	234m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
32	236m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Nant Alltami
R	237m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
Q	240m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
T	240m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
R	241m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
U	243m NW	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	33
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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 88**

This data is sourced from the Ordnance Survey.



6.3 WFD Surface water body catchments

Records on site

2

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 88**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
8	On site	River WB catchment	Wepre Brook	GB111067056880	Dee Estuary	Dee
9	On site	River WB catchment	Sandycroft Drain	GB111067052160	Dee Estuary	Dee

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

6.4 WFD Surface water bodies

Records identified

2

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.

Features are displayed on the Hydrology map on **page 88**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
7	On site	River	Wepre Brook	GB111067056880	Moderate	Good	Moderate	2016
-	2522m SE	River	Sandycroft Drain	GB111067052160	Moderate	Good	Moderate	2016

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.

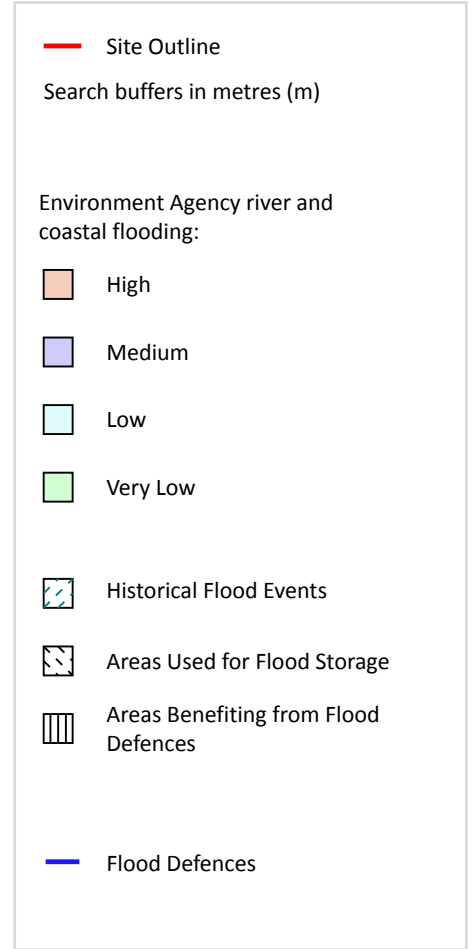
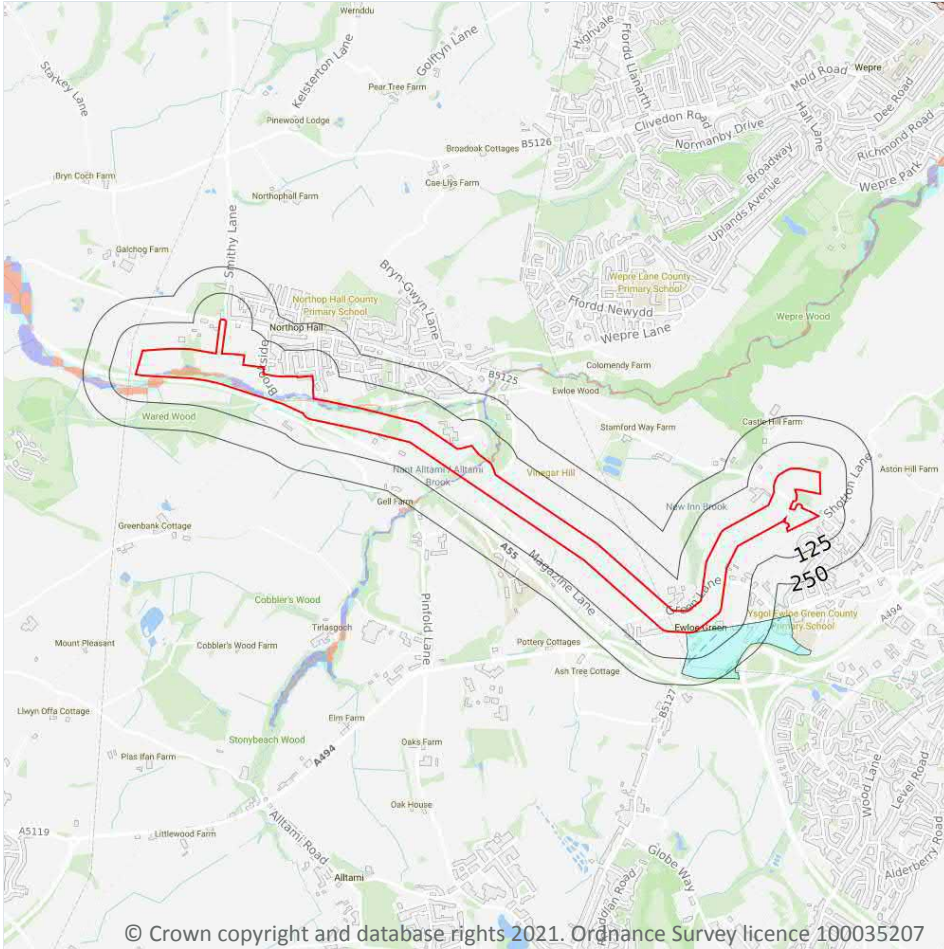
Features are displayed on the Hydrology map on **page 88**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
2	On site	Dee Carboniferous Coal Measures	GB41102G204800	Poor	Poor	Good	2016

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



7 River and coastal flooding



7.1 Risk of Flooding from Rivers and Sea (RoFRaS)

Records within 50m

84

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition; 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).

Features are displayed on the River and coastal flooding map on **page 95**

Distance	RoFRaS flood risk
On site	High
0 - 50m	High

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

7.2 Historical Flood Events

Records within 250m

1

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.

Features are displayed on the River and coastal flooding map on **page 95**

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
M	2m S	Ewloe Green Oct/ Nov 2000 01	2000-10-26 2000-11-12	Ordinary watercourse	Channel capacity exceeded (no raised defences)	Fluvial

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

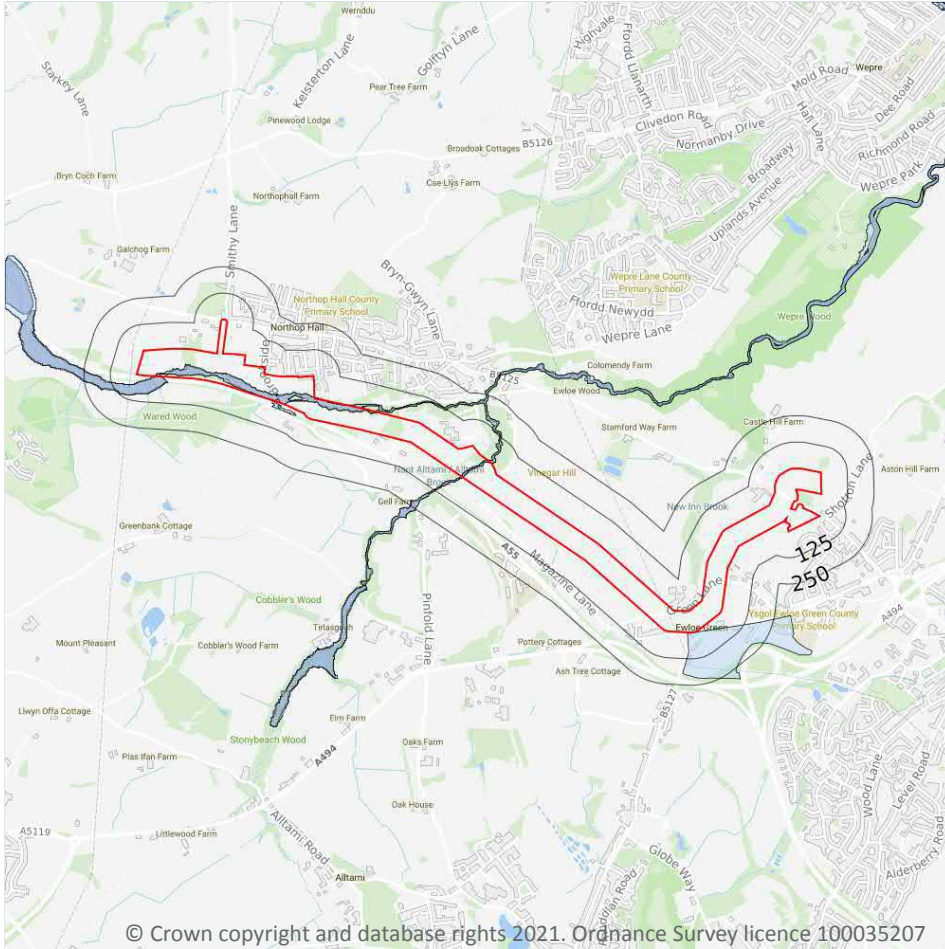
0

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



— Site Outline
Search buffers in metres (m)

□ Flood zone 2
□ Flood zone 3

7.6 Flood Zone 2

Records within 50m

1

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.

Features are displayed on the River and coastal flooding map on [page 95](#)

Location	Type
On site	Zone 2 - (Fluvial /Tidal Models)

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

7.7 Flood Zone 3

Records within 50m

1

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.

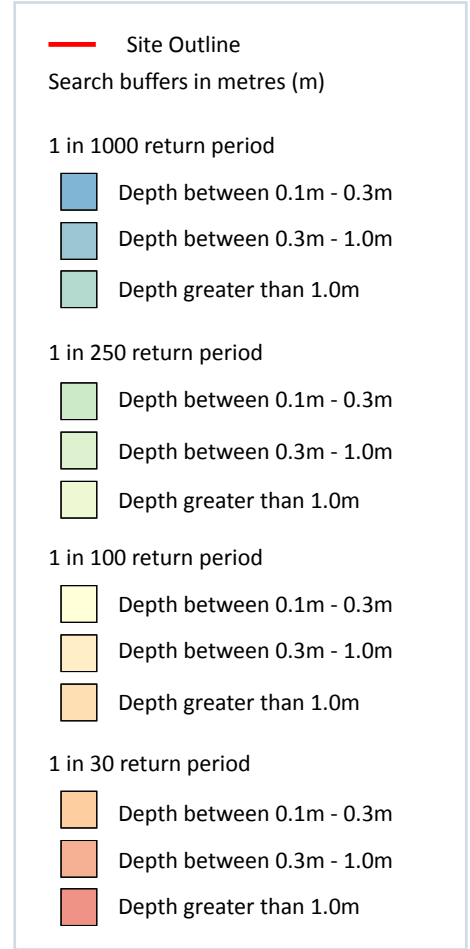
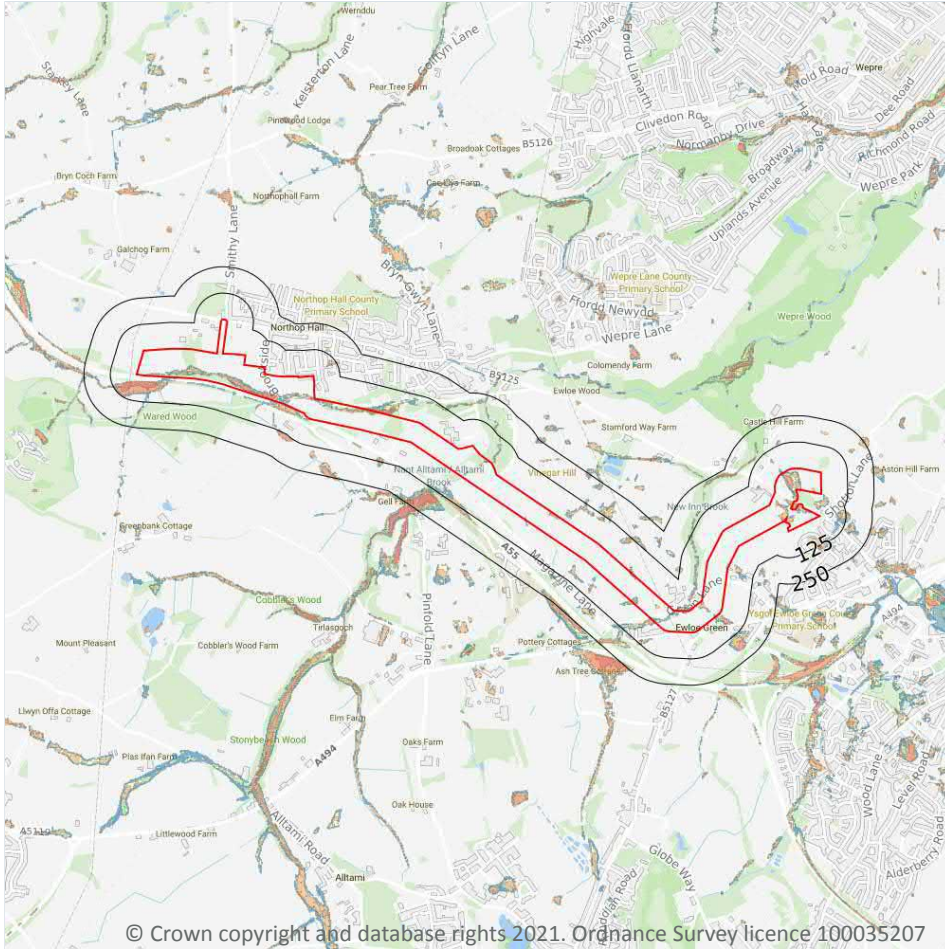
Features are displayed on the River and coastal flooding map on **page 95**

Location	Type
On site	Zone 3 - (Fluvial Models)

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



8 Surface water flooding



8.1 Surface water flooding

Highest risk on site

1 in 30 year, Greater than 1.0m

Highest risk within 50m

1 in 30 year, Greater than 1.0m

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 100**

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.

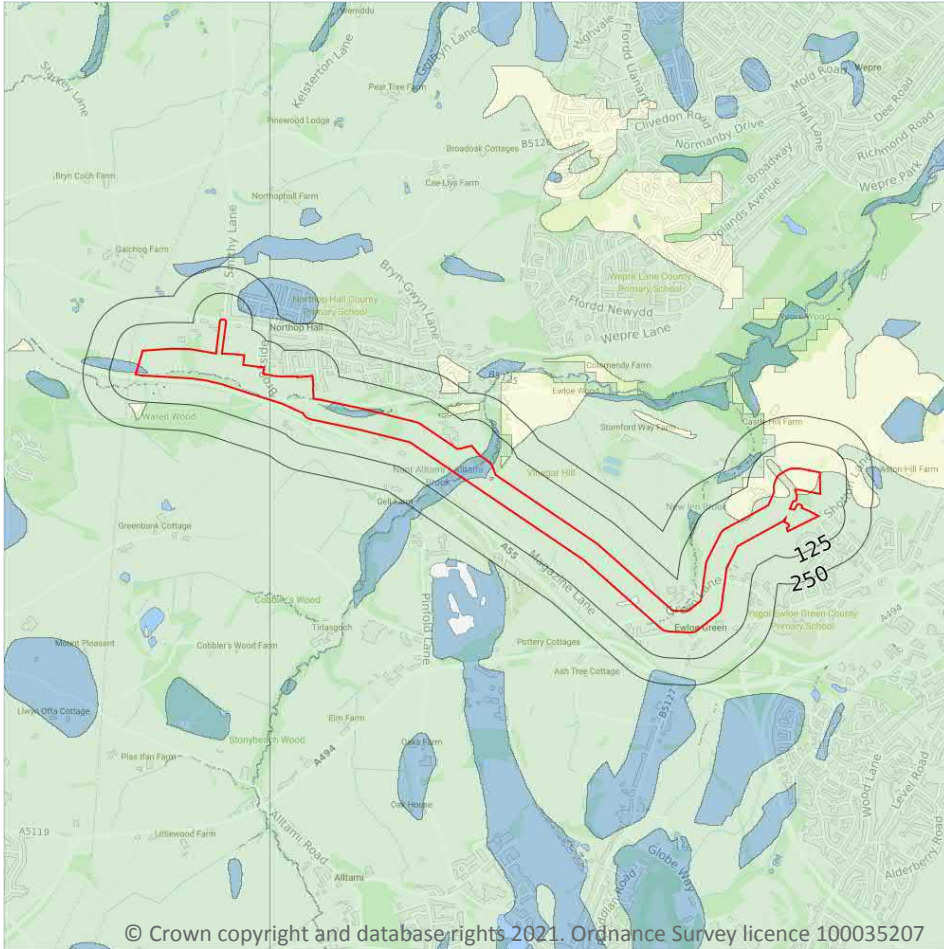
The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Greater than 1.0m
1 in 250 year	Greater than 1.0m
1 in 100 year	Greater than 1.0m
1 in 30 year	Greater than 1.0m

This data is sourced from Ambiental Risk Analytics.



9 Groundwater flooding



9.1 Groundwater flooding

Highest risk on site

Moderate

Highest risk within 50m

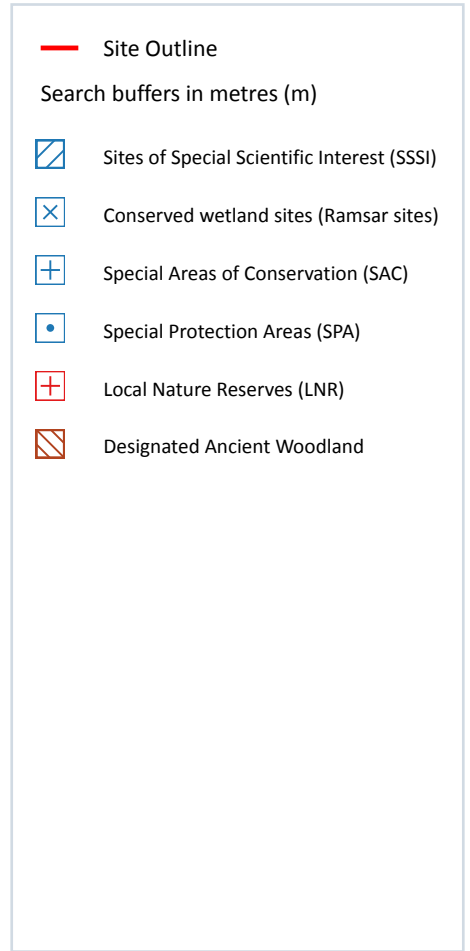
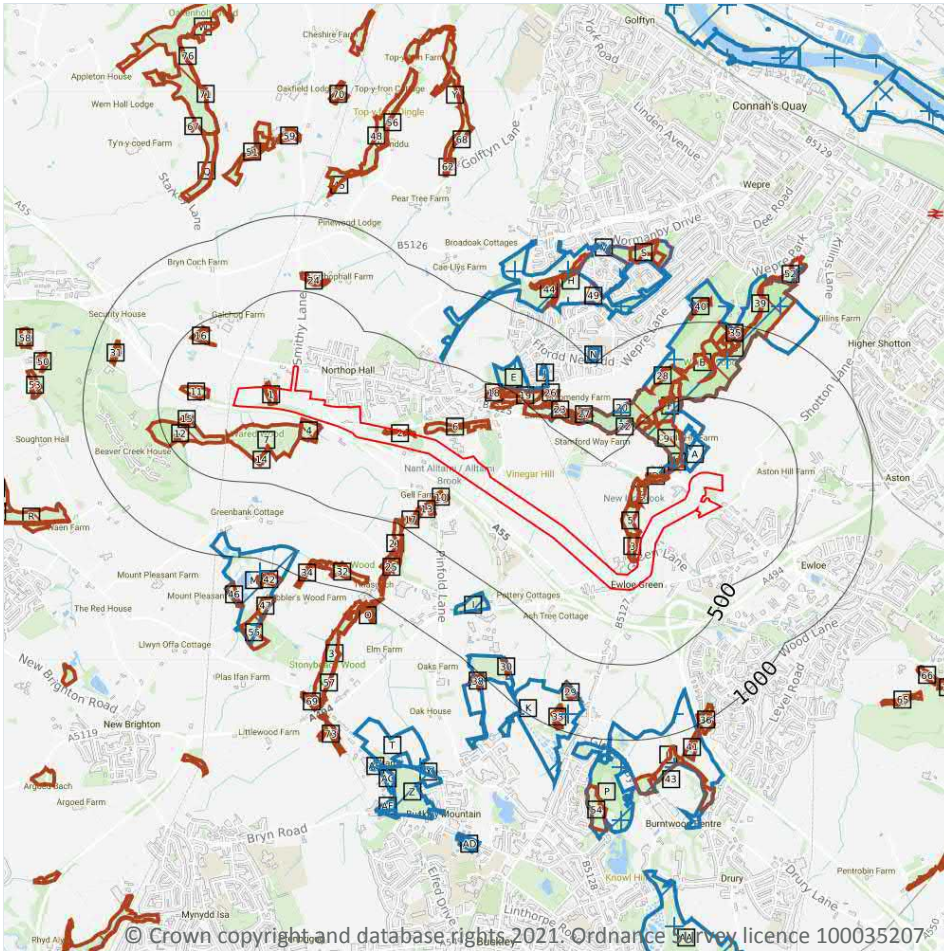
Moderate

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 102**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

22

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 103**

ID	Location	Name	Data source
A	43m NW	Connah's Quay Ponds And Woodland	Natural Resources Wales



ID	Location	Name	Data source
B	98m NW	Connah's Quay Ponds And Woodland	Natural Resources Wales
E	491m N	Connah's Quay Ponds And Woodland	Natural Resources Wales
H	529m N	Connah's Quay Ponds And Woodland	Natural Resources Wales
I	567m SW	Buckley Claypits And Commons	Natural Resources Wales
J	673m NE	Connah's Quay Ponds And Woodland	Natural Resources Wales
K	688m SW	Buckley Claypits And Commons	Natural Resources Wales
L	752m SE	Buckley Claypits And Commons	Natural Resources Wales
M	849m S	Maes Y Grug	Natural Resources Wales
N	991m NE	Connah's Quay Ponds And Woodland	Natural Resources Wales
P	1040m S	Buckley Claypits And Commons	Natural Resources Wales
T	1566m SW	Buckley Claypits And Commons	Natural Resources Wales
V	1584m N	Connah's Quay Ponds And Woodland	Natural Resources Wales
V	1586m NE	Connah's Quay Ponds And Woodland	Natural Resources Wales
X	1681m SW	Buckley Claypits And Commons	Natural Resources Wales
Z	1698m SW	Buckley Claypits And Commons	Natural Resources Wales
AA	1874m S	Buckley Claypits And Commons	Natural Resources Wales
AB	1887m SW	Buckley Claypits And Commons	Natural Resources Wales
AC	1889m SW	Buckley Claypits And Commons	Natural Resources Wales
AD	1901m SW	Buckley Claypits And Commons	Natural Resources Wales
AD	1909m SW	Buckley Claypits And Commons	Natural Resources Wales
AE	1999m SW	Buckley Claypits And Commons	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	20
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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 103**

ID	Location	Name	Features of interest	Habitat description	Data source
A	43m NW	Deeside and Buckley Newt sites	Western acidic oak woodland; Alder woodland on floodplains; Great crested newt; Bullhead.	Coniferous woodland; Broad-leaved deciduous woodland; Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens; Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Dry grassland, Steppes; Improved grassland; Heath, Scrub, Maquis and Garrigue, Phygrana; Mixed woodland	Natural Resources Wales
B	98m NW	Deeside and Buckley Newt sites	Western acidic oak woodland; Alder woodland on floodplains; Great crested newt; Bullhead.	Coniferous woodland; Broad-leaved deciduous woodland; Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens; Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Dry grassland, Steppes; Improved grassland; Heath, Scrub, Maquis and Garrigue, Phygrana; Mixed woodland	Natural Resources Wales
E	491m N	Deeside and Buckley Newt sites	Western acidic oak woodland; Alder woodland on floodplains; Great crested newt; Bullhead.	Coniferous woodland; Broad-leaved deciduous woodland; Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens; Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Dry grassland, Steppes; Improved grassland; Heath, Scrub, Maquis and Garrigue, Phygrana; Mixed woodland	Natural Resources Wales

ID	Location	Name	Features of interest	Habitat description	Data source
I	567m SW	Deeside and Buckley Newt sites	Western acidic oak woodland; Alder woodland on floodplains; Great crested newt; Bullhead.	Coniferous woodland; Broad-leaved deciduous woodland; Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens; Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Dry grassland, Steppes; Improved grassland; Heath, Scrub, Maquis and Garrigue, Phygrana; Mixed woodland	Natural Resources Wales
J	673m NE	Deeside and Buckley Newt sites	Western acidic oak woodland; Alder woodland on floodplains; Great crested newt; Bullhead.	Coniferous woodland; Broad-leaved deciduous woodland; Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens; Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Dry grassland, Steppes; Improved grassland; Heath, Scrub, Maquis and Garrigue, Phygrana; Mixed woodland	Natural Resources Wales
K	688m SW	Deeside and Buckley Newt sites	Western acidic oak woodland; Alder woodland on floodplains; Great crested newt; Bullhead.	Coniferous woodland; Broad-leaved deciduous woodland; Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens; Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Dry grassland, Steppes; Improved grassland; Heath, Scrub, Maquis and Garrigue, Phygrana; Mixed woodland	Natural Resources Wales
L	752m SE	Deeside and Buckley Newt sites	Western acidic oak woodland; Alder woodland on floodplains; Great crested newt; Bullhead.	Coniferous woodland; Broad-leaved deciduous woodland; Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens; Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Dry grassland, Steppes; Improved grassland; Heath, Scrub, Maquis and Garrigue, Phygrana; Mixed woodland	Natural Resources Wales

ID	Location	Name	Features of interest	Habitat description	Data source
M	849m S	Deeside and Buckley Newt sites	Western acidic oak woodland; Alder woodland on floodplains; Great crested newt; Bullhead.	Coniferous woodland; Broad-leaved deciduous woodland; Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens; Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Dry grassland, Steppes; Improved grassland; Heath, Scrub, Maquis and Garrigue, Phygrana; Mixed woodland	Natural Resources Wales
H	948m N	Deeside and Buckley Newt sites	Western acidic oak woodland; Alder woodland on floodplains; Great crested newt; Bullhead.	Coniferous woodland; Broad-leaved deciduous woodland; Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens; Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Dry grassland, Steppes; Improved grassland; Heath, Scrub, Maquis and Garrigue, Phygrana; Mixed woodland	Natural Resources Wales
N	991m NE	Deeside and Buckley Newt sites	Western acidic oak woodland; Alder woodland on floodplains; Great crested newt; Bullhead.	Coniferous woodland; Broad-leaved deciduous woodland; Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens; Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Dry grassland, Steppes; Improved grassland; Heath, Scrub, Maquis and Garrigue, Phygrana; Mixed woodland	Natural Resources Wales
P	1040m S	Deeside and Buckley Newt sites	Western acidic oak woodland; Alder woodland on floodplains; Great crested newt; Bullhead.	Coniferous woodland; Broad-leaved deciduous woodland; Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens; Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Dry grassland, Steppes; Improved grassland; Heath, Scrub, Maquis and Garrigue, Phygrana; Mixed woodland	Natural Resources Wales



ID	Location	Name	Features of interest	Habitat description	Data source
T	1566m SW	Deeside and Buckley Newt sites	Western acidic oak woodland; Alder woodland on floodplains; Great crested newt; Bullhead.	Coniferous woodland; Broad-leaved deciduous woodland; Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens; Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Dry grassland, Steppes; Improved grassland; Heath, Scrub, Maquis and Garrigue, Phygrana; Mixed woodland	Natural Resources Wales
V	1584m N	Deeside and Buckley Newt sites	Western acidic oak woodland; Alder woodland on floodplains; Great crested newt; Bullhead.	Coniferous woodland; Broad-leaved deciduous woodland; Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens; Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Dry grassland, Steppes; Improved grassland; Heath, Scrub, Maquis and Garrigue, Phygrana; Mixed woodland	Natural Resources Wales
V	1586m NE	Deeside and Buckley Newt sites	Western acidic oak woodland; Alder woodland on floodplains; Great crested newt; Bullhead.	Coniferous woodland; Broad-leaved deciduous woodland; Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens; Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Dry grassland, Steppes; Improved grassland; Heath, Scrub, Maquis and Garrigue, Phygrana; Mixed woodland	Natural Resources Wales
X	1681m SW	Deeside and Buckley Newt sites	Western acidic oak woodland; Alder woodland on floodplains; Great crested newt; Bullhead.	Coniferous woodland; Broad-leaved deciduous woodland; Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens; Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Dry grassland, Steppes; Improved grassland; Heath, Scrub, Maquis and Garrigue, Phygrana; Mixed woodland	Natural Resources Wales



ID	Location	Name	Features of interest	Habitat description	Data source
Z	1698m SW	Deeside and Buckley Newt sites	Western acidic oak woodland; Alder woodland on floodplains; Great crested newt; Bullhead.	Coniferous woodland; Broad-leaved deciduous woodland; Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens; Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Dry grassland, Steppes; Improved grassland; Heath, Scrub, Maquis and Garrigue, Phygrana; Mixed woodland	Natural Resources Wales
AA	1874m S	Deeside and Buckley Newt sites	Western acidic oak woodland; Alder woodland on floodplains; Great crested newt; Bullhead.	Coniferous woodland; Broad-leaved deciduous woodland; Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens; Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Dry grassland, Steppes; Improved grassland; Heath, Scrub, Maquis and Garrigue, Phygrana; Mixed woodland	Natural Resources Wales
AB	1887m SW	Deeside and Buckley Newt sites	Western acidic oak woodland; Alder woodland on floodplains; Great crested newt; Bullhead.	Coniferous woodland; Broad-leaved deciduous woodland; Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens; Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Dry grassland, Steppes; Improved grassland; Heath, Scrub, Maquis and Garrigue, Phygrana; Mixed woodland	Natural Resources Wales
AC	1889m SW	Deeside and Buckley Newt sites	Western acidic oak woodland; Alder woodland on floodplains; Great crested newt; Bullhead.	Coniferous woodland; Broad-leaved deciduous woodland; Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens; Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Dry grassland, Steppes; Improved grassland; Heath, Scrub, Maquis and Garrigue, Phygrana; Mixed woodland	Natural Resources Wales



ID	Location	Name	Features of interest	Habitat description	Data source
AE	1999m SW	Deeside and Buckley Newt sites	Western acidic oak woodland; Alder woodland on floodplains; Great crested newt; Bullhead.	Coniferous woodland; Broad-leaved deciduous woodland; Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens; Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Dry grassland, Steppes; Improved grassland; Heath, Scrub, Maquis and Garrigue, Phygrana; Mixed woodland	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

2

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.

Features are displayed on the Environmental designations map on **page 103**

ID	Location	Name	Data source
49	1255m NE	GATHERING GROUNDS WOODS & LLWYNI POND	Natural Resources Wales



ID	Location	Name	Data source
S	1387m N	GATHERING GROUNDS WOODS & LLWYNI POND	Natural Resources Wales

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

10.7 Designated Ancient Woodland

Records within 2000m	107
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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 103**

ID	Location	Name	Woodland Type
1	On site	Unknown	Ancient Semi Natural Woodland
2	On site	Unknown	Restored Ancient Woodland Site
3	14m W	Unknown	Ancient Semi Natural Woodland
4	27m S	Unknown	Plantation on Ancient Woodland Site
5	27m NW	Unknown	Restored Ancient Woodland Site
6	31m N	Unknown	Restored Ancient Woodland Site
7	70m S	Unknown	Restored Ancient Woodland Site
8	92m NW	Unknown	Restored Ancient Woodland Site
C	116m NW	Unknown	Restored Ancient Woodland Site
C	145m NW	Unknown	Plantation on Ancient Woodland Site
9	146m NW	Unknown	Restored Ancient Woodland Site
D	148m W	Unknown	Restored Ancient Woodland Site
D	153m W	Unknown	Restored Ancient Woodland Site
10	164m SW	Unknown	Ancient Semi Natural Woodland
11	178m W	Unknown	Restored Ancient Woodland Site
12	216m S	Unknown	Restored Ancient Woodland Site
13	237m SW	Unknown	Ancient Semi Natural Woodland
14	260m S	Unknown	Restored Ancient Woodland Site



ID	Location	Name	Woodland Type
15	284m W	Unknown	Ancient Semi Natural Woodland
16	327m NW	Unknown	Restored Ancient Woodland Site
17	351m SW	Unknown	Restored Ancient Woodland Site
E	351m N	Unknown	Ancient Semi Natural Woodland
F	394m NW	Unknown	Plantation on Ancient Woodland Site
18	402m N	Unknown	Restored Ancient Woodland Site
19	440m NE	Unknown	Restored Ancient Woodland Site
20	441m NE	Unknown	Ancient Semi Natural Woodland
F	444m NW	Unknown	Restored Ancient Woodland Site
E	465m NE	Unknown	Ancient Semi Natural Woodland
21	470m SW	Unknown	Ancient Semi Natural Woodland
G	479m N	Unknown	Restored Ancient Woodland Site
F	495m NW	Unknown	Restored Ancient Woodland Site
F	504m NW	Unknown	Restored Ancient Woodland Site
22	540m NW	Unknown	Ancient Semi Natural Woodland
F	548m N	Unknown	Restored Ancient Woodland Site
23	550m NE	Unknown	Ancient Semi Natural Woodland
24	553m N	Unknown	Ancient Semi Natural Woodland
25	574m SW	Unknown	Restored Ancient Woodland Site
F	577m N	Unknown	Restored Ancient Woodland Site
26	586m NE	Unknown	Restored Ancient Woodland Site
G	613m N	Unknown	Ancient Semi Natural Woodland
27	656m NE	Unknown	Ancient Semi Natural Woodland
28	668m N	Unknown	Ancient Semi Natural Woodland
29	688m SW	Unknown	Restored Ancient Woodland Site
G	811m N	Unknown	Plantation on Ancient Woodland Site
30	814m SW	Unknown	Ancient Semi Natural Woodland
31	823m W	Unknown	Restored Ancient Woodland Site



ID	Location	Name	Woodland Type
32	838m S	Unknown	Ancient Semi Natural Woodland
33	843m SW	Unknown	Restored Ancient Woodland Site
G	852m N	Unknown	Plantation on Ancient Woodland Site
34	867m S	Unknown	Restored Ancient Woodland Site
35	904m N	Unknown	Ancient Semi Natural Woodland
36	916m SE	Unknown	Ancient Semi Natural Woodland
37	984m SW	Unknown	Restored Ancient Woodland Site
38	992m SW	Unknown	Restored Ancient Woodland Site
O	1005m SW	Unknown	Restored Ancient Woodland Site
39	1023m N	Unknown	Ancient Semi Natural Woodland
40	1024m N	Unknown	Ancient Semi Natural Woodland
41	1030m SE	Unknown	Ancient Semi Natural Woodland
O	1052m SW	Unknown	Ancient Semi Natural Woodland
42	1064m S	Unknown	Restored Ancient Woodland Site
43	1078m S	Unknown	Ancient Semi Natural Woodland
44	1115m NE	Unknown	Restored Ancient Woodland Site
45	1157m N	Unknown	Restored Ancient Woodland Site
46	1169m S	Unknown	Ancient Semi Natural Woodland
47	1199m SW	Unknown	Restored Ancient Woodland Site
48	1212m N	Unknown	Restored Ancient Woodland Site
H	1234m N	Unknown	Restored Ancient Woodland Site
50	1262m W	Unknown	Restored Ancient Woodland Site
51	1268m N	Unknown	Restored Ancient Woodland Site
52	1281m N	Unknown	Ancient Semi Natural Woodland
53	1286m W	Unknown	Ancient Semi Natural Woodland
Q	1286m N	Unknown	Ancient Semi Natural Woodland
Q	1297m N	Unknown	Ancient Semi Natural Woodland
54	1314m S	Unknown	Ancient Semi Natural Woodland



ID	Location	Name	Woodland Type
R	1322m SW	Unknown	Plantation on Ancient Woodland Site
H	1322m NE	Unknown	Restored Ancient Woodland Site
R	1334m SW	Unknown	Plantation on Ancient Woodland Site
55	1341m SW	Unknown	Restored Ancient Woodland Site
56	1345m N	Unknown	Restored Ancient Woodland Site
57	1404m S	Unknown	Ancient Semi Natural Woodland
S	1409m N	Unknown	Ancient Semi Natural Woodland
58	1410m W	Unknown	Ancient Semi Natural Woodland
R	1453m SW	Unknown	Restored Ancient Woodland Site
S	1456m N	Unknown	Restored Ancient Woodland Site
59	1491m N	Unknown	Restored Ancient Woodland Site
-	1535m W	Unknown	Ancient Semi Natural Woodland
S	1551m N	Unknown	Restored Ancient Woodland Site
-	1580m W	Unknown	Restored Ancient Woodland Site
-	1582m W	Unknown	Plantation on Ancient Woodland Site
-	1594m W	Unknown	Ancient Semi Natural Woodland
62	1602m NE	Unknown	Restored Ancient Woodland Site
63	1606m W	Unknown	Restored Ancient Woodland Site
64	1626m SW	Unknown	Ancient Semi Natural Woodland
W	1632m N	Unknown	Restored Ancient Woodland Site
65	1682m SE	Unknown	Restored Ancient Woodland Site
Y	1689m NE	Unknown	Ancient Semi Natural Woodland
66	1690m SE	Unknown	Ancient Semi Natural Woodland
67	1707m NW	Unknown	Restored Ancient Woodland Site
68	1729m NE	Unknown	Ancient Semi Natural Woodland
69	1733m S	Unknown	Restored Ancient Woodland Site
70	1766m N	Unknown	Ancient Semi Natural Woodland
71	1797m N	Unknown	Restored Ancient Woodland Site



ID	Location	Name	Woodland Type
-	1813m SW	Unknown	Ancient Semi Natural Woodland
73	1825m SW	Unknown	Ancient Semi Natural Woodland
74	1857m SE	Unknown	Plantation on Ancient Woodland Site
-	1934m W	Unknown	Ancient Semi Natural Woodland
76	1959m N	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



- Site Outline
- Search buffers in metres (m)
- SSSI Impact Risk Zones
- SSSI Units
- Not recorded
- Favourable
- Unfavourable - Recovering
- Unfavourable - No change
- Unfavourable - Declining
- Partially destroyed
- Destroyed

10.17 SSSI Impact Risk Zones

Records on site

1

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.

Features are displayed on the SSSI Impact Zones and Units map on **page 118**

ID	Location	Type of developments requiring consultation
1	On site	<p>Infrastructure - Airports, helipads and other aviation proposals.</p> <p>Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons > 4000m².</p> <p>Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion</p>

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m

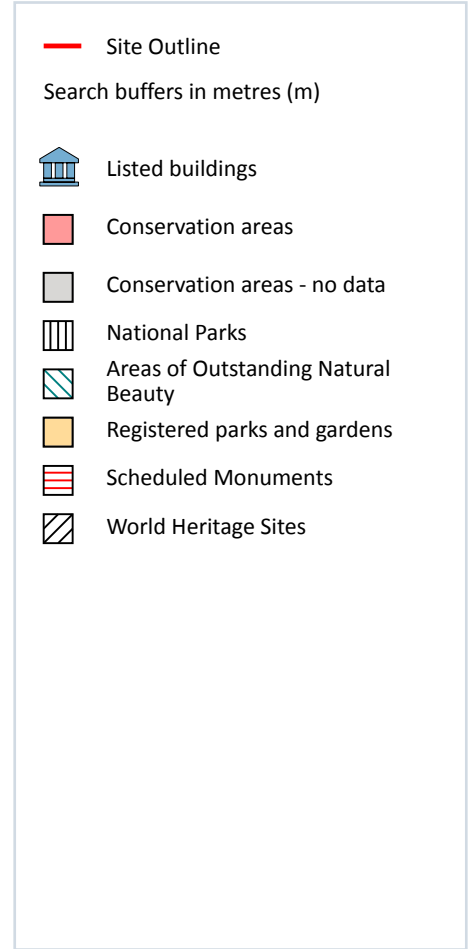
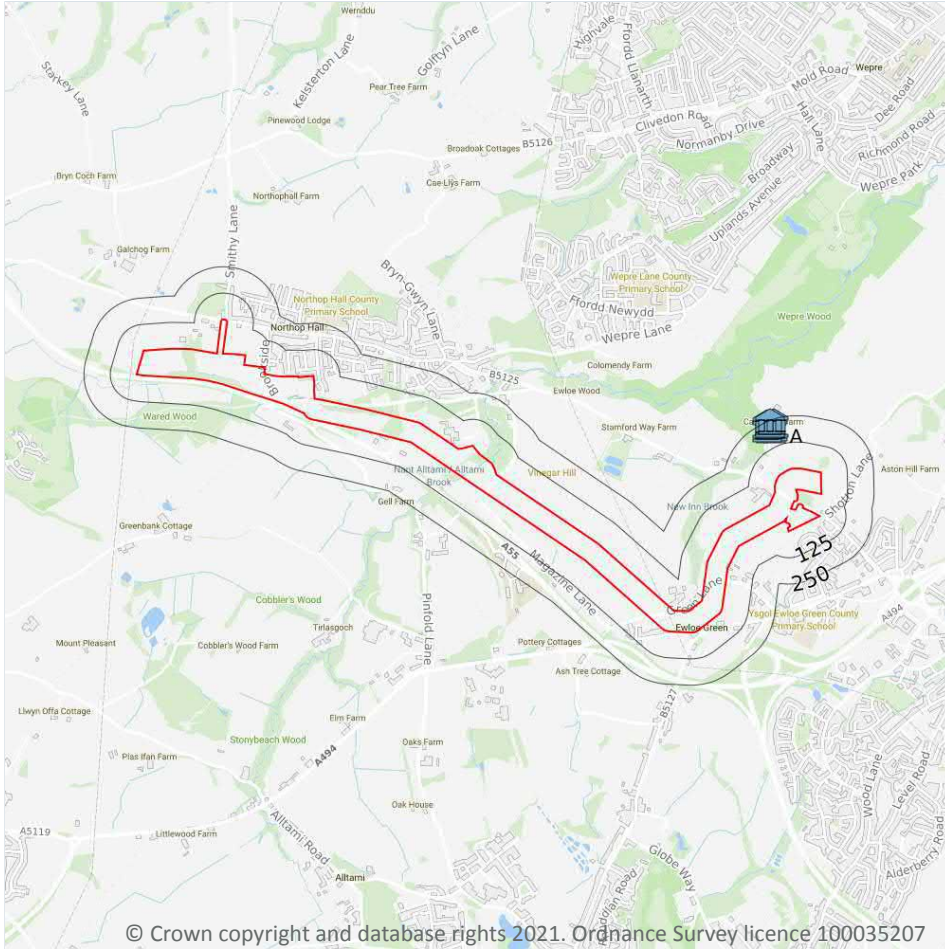
0

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

6

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.

Features are displayed on the Visual and cultural designations map on **page 120**

ID	Location	Name	Grade	Reference Number	Listed date
A	214m N	Low Attached Extensions At Castle Hill Farm, Located At The End Of Its Own Lane, Off Holywell Road, And Forming One Side Of An Irregular Courtyard	II	15106	16/11/1994
A	215m N	Main House At Castle Hill Farm, Located At The End Of Its Own Lane, Off Holywell Road, And Forming One Side Of An Irregular Courtyard	II	15105	16/11/1994
A	225m NW	Former Stable Block At Castle Hill Farm, Opposite The Brewery To The Se	II	15110	16/11/1994



ID	Location	Name	Grade	Reference Number	Listed date
A	231m N	Granary At Castle Hill Farm, Adjacent To The Main House, To The N	II	15107	16/11/1994
A	239m NW	Adjacent Malting Tower At Castle Hill Farm, Opposite The Main House To The Ne	II	15109	16/11/1994
A	240m N	Former Brewery At Castle Hill Farm, Opposite The Main House To The NE	II	15108	16/11/1994

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

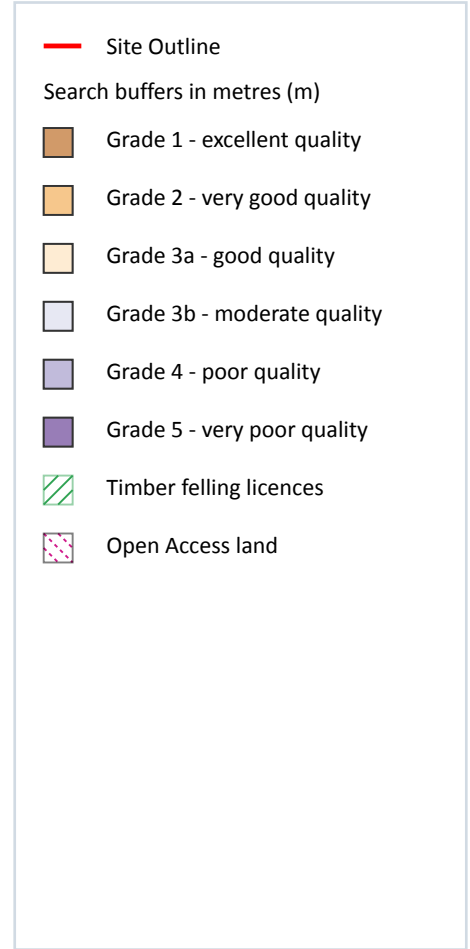
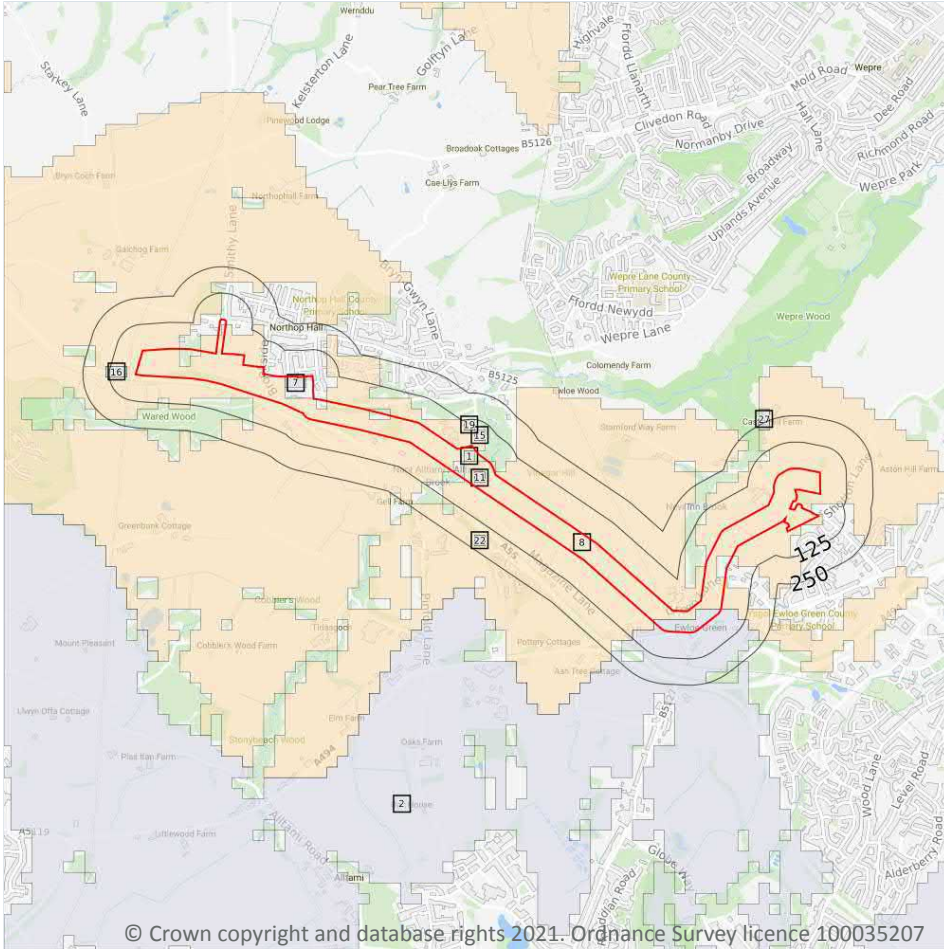
0

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



12.1 Agricultural Land Classification

Records within 250m

10

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 123**

ID	Location	Classification	Description
1	On site	Grade 3b	Moderate quality agricultural land
2	On site	Grade 3b	Moderate quality agricultural land
7	On site	Grade 3b	Moderate quality agricultural land

ID	Location	Classification	Description
8	On site	Grade 3a	Good to moderate quality agricultural land
11	On site	Grade 3b	Moderate quality agricultural land
15	28m NE	Grade 3b	Moderate quality agricultural land
16	42m W	Grade 3b	Moderate quality agricultural land
19	75m N	Grade 3b	Moderate quality agricultural land
22	165m SW	Grade 3b	Moderate quality agricultural land
27	208m NW	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

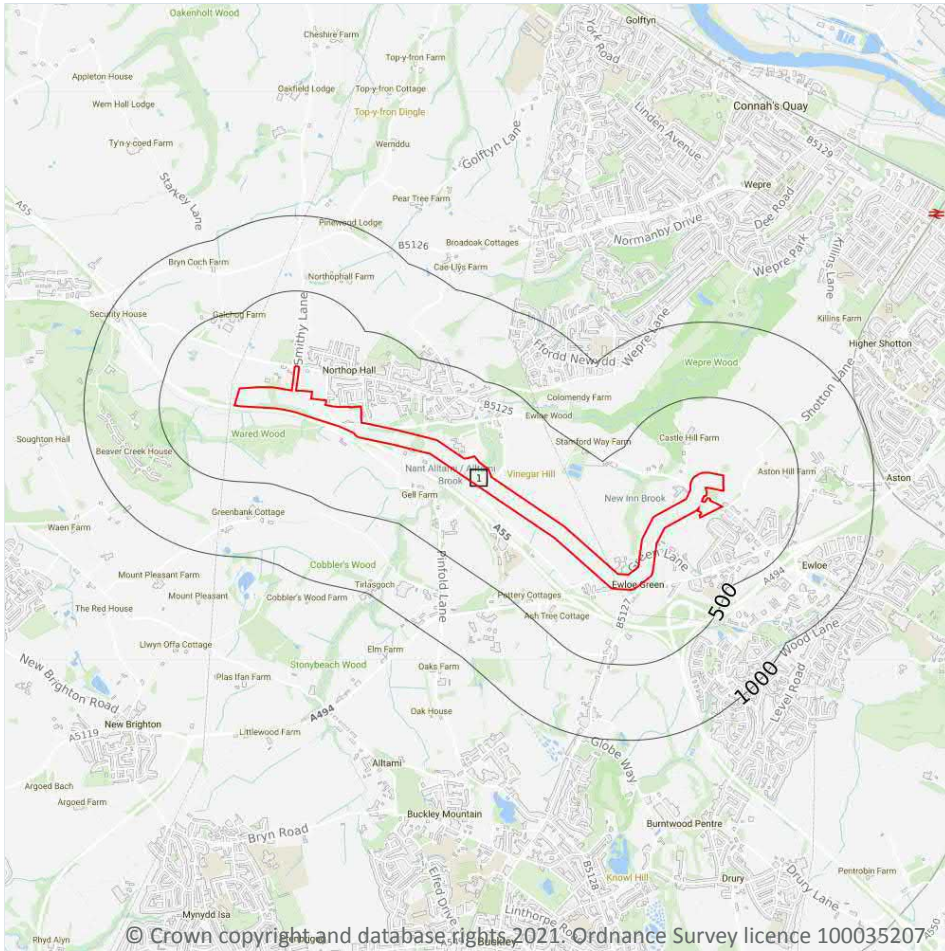
0

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

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 127](#)

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

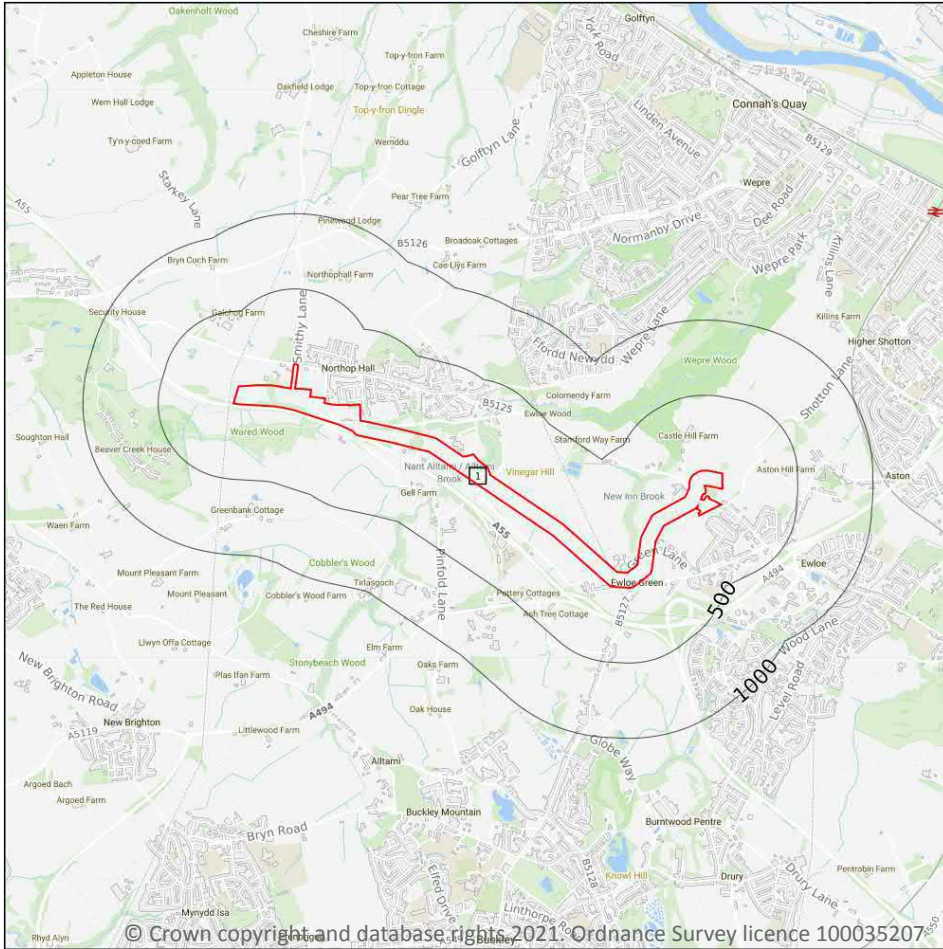
0

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

1

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 131**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW108_flint_v4

This data is sourced from the British Geological Survey.



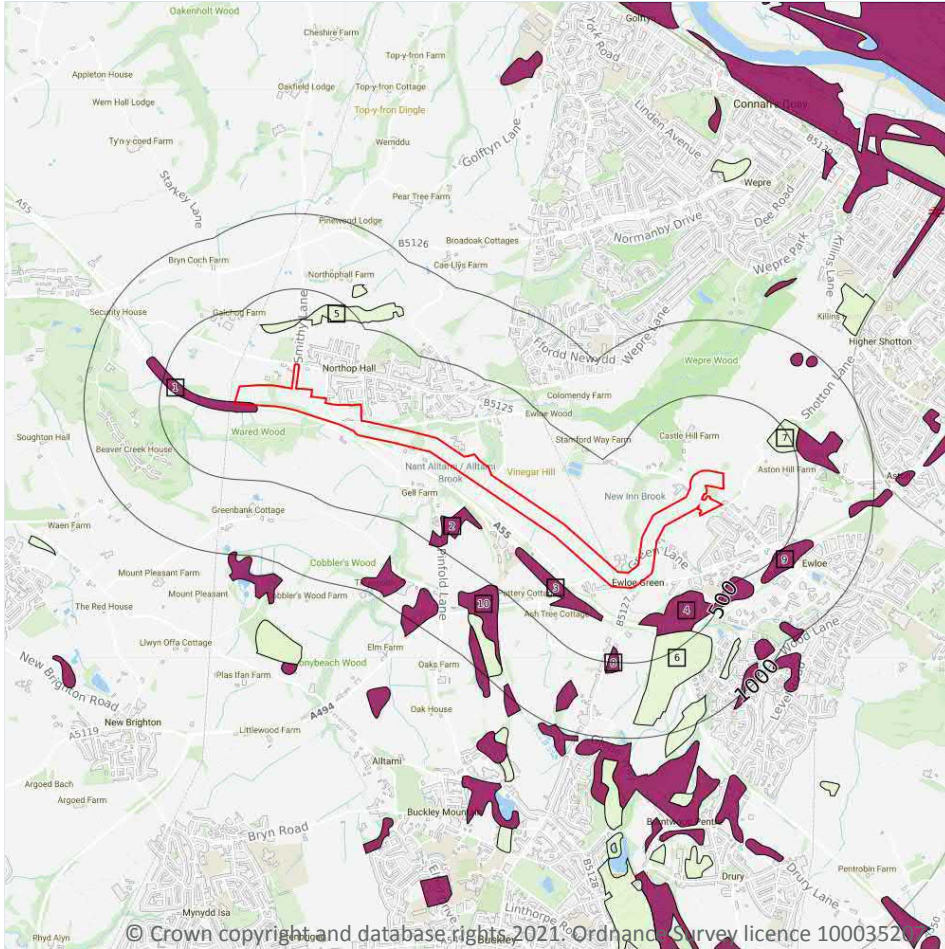
Contact us with any questions at:

08444 159 000

Date: 30 July 2021



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



15.2 Artificial and made ground (50k)

Records within 500m

10

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

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 132**

ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	176m SW	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
3	192m SW	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
4	209m SE	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

ID	Location	LEX Code	Description	Rock description
5	240m N	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
6	358m SE	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
7	363m NE	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
8	395m S	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
9	477m SE	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
10	493m SW	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

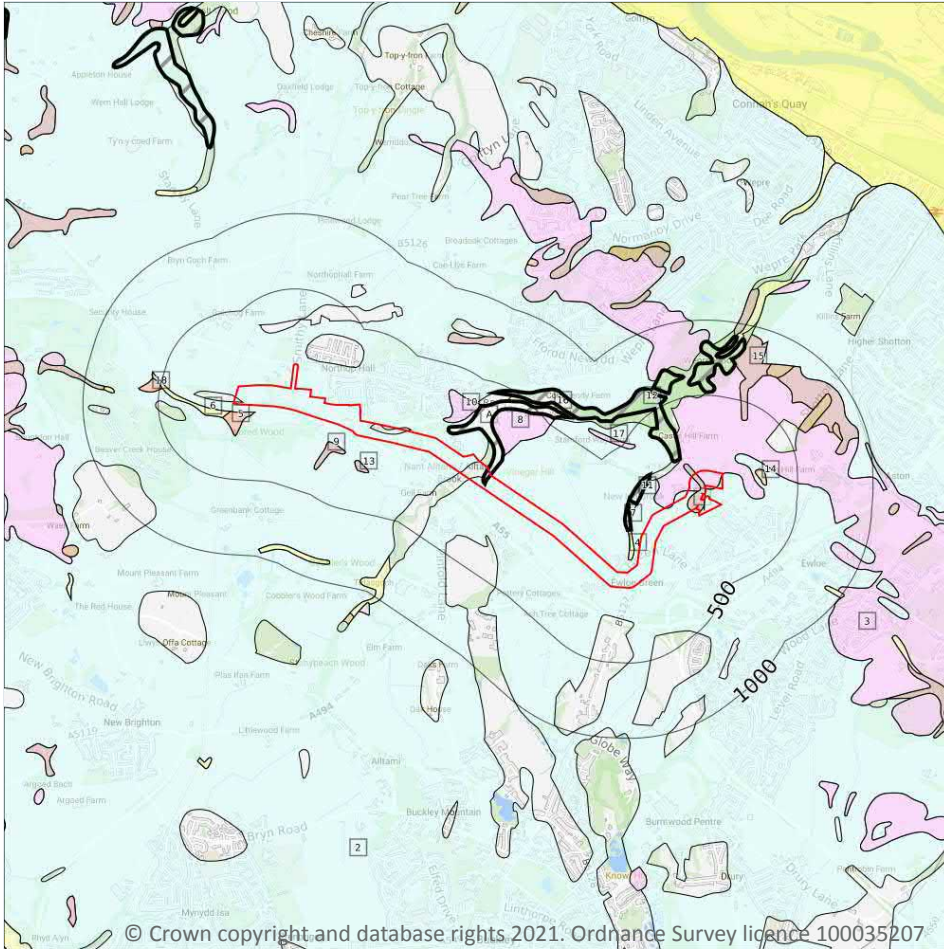
Records within 50m	1
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A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

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

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

16

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 134**

ID	Location	LEX Code	Description	Rock description
1	On site	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
2	On site	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
3	On site	GFDUD-XSV	GLACIOFLUVIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL



ID	Location	LEX Code	Description	Rock description
A	On site	SUPD-SED	SUPERFICIAL DEPOSITS	SEDIMENT
4	33m W	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
5	45m S	ALF-XSV	ALLUVIAL FAN DEPOSITS	SAND AND GRAVEL
6	56m S	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
8	126m NE	GFDUD-XSV	GLACIOFLUVIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL
9	128m SW	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
10	129m NE	GFDUD-XSV	GLACIOFLUVIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL
13	164m S	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
14	221m E	LDE-XCZ	LACUSTRINE DEPOSITS	CLAY AND SILT
15	379m N	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
16	418m NE	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
17	426m NW	GFDUD-XSV	GLACIOFLUVIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL
18	485m W	ALF-XSV	ALLUVIAL FAN DEPOSITS	SAND AND GRAVEL

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	6
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A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any superficial deposits (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	High	Very Low
On site	Mixed	High	Low
On site	Mixed	Very High	Very Low
On site	Intergranular	Very High	High
33m SE	Intergranular	High	Very Low
45m W	Intergranular	Very High	High

This data is sourced from the British Geological Survey.



15.6 Landslip (50k)

Records within 500m

4

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.

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 134**

ID	Location	LEX Code	Description	Rock description
A	On site	SLIP-UNKNOWN	LANDSLIDE DEPOSITS	UNKNOWN/UNCLASSIFIED ENTRY
7	82m NW	SLIP-UNKNOWN	LANDSLIDE DEPOSITS	UNKNOWN/UNCLASSIFIED ENTRY
11	129m NW	SLIP-UNKNOWN	LANDSLIDE DEPOSITS	UNKNOWN/UNCLASSIFIED ENTRY
12	138m NW	SLIP-UNKNOWN	LANDSLIDE DEPOSITS	UNKNOWN/UNCLASSIFIED ENTRY

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

Records within 50m

1

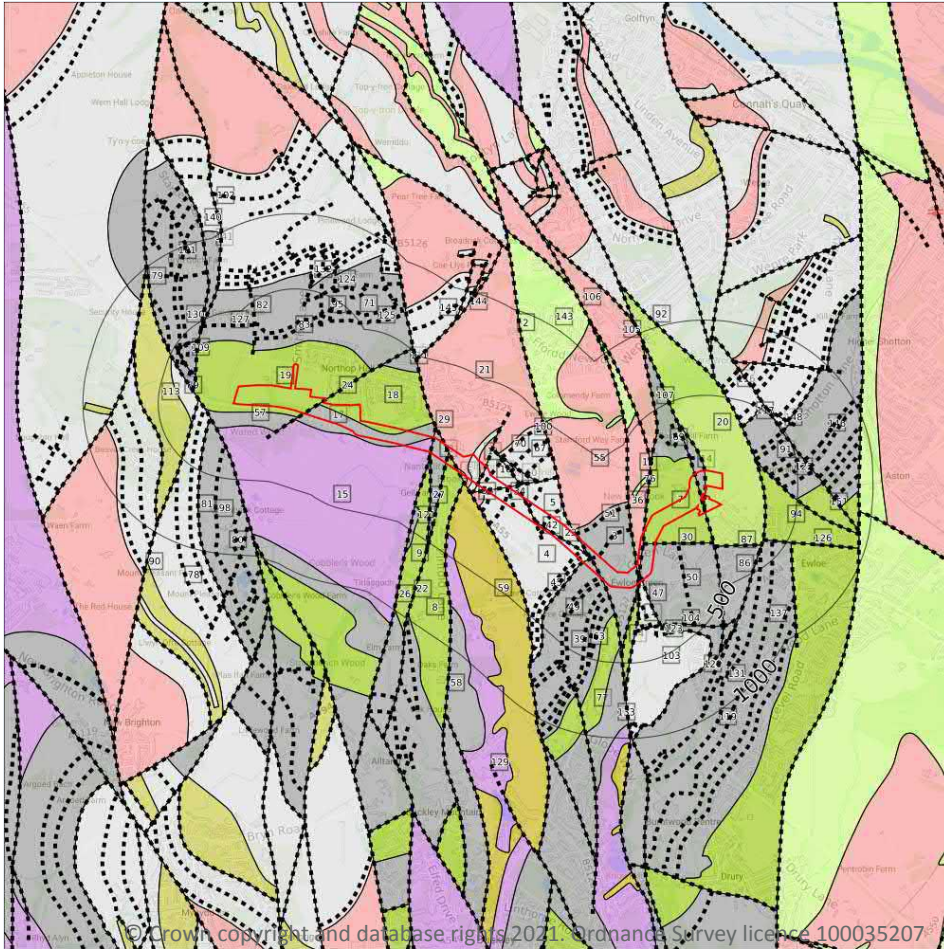
A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any landslip deposits (the zone between the land surface and the water table).

Flow type	Maximum permeability	Minimum permeability
Mixed	Very High	Low

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

56

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 137**

ID	Location	LEX Code	Description	Rock age
1	On site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
3	On site	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN



ID	Location	LEX Code	Description	Rock age
4	On site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
5	On site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
6	On site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
7	On site	HLR-SDST	HOLLIN ROCK - SANDSTONE	WESTPHALIAN
8	On site	HLR-SDST	HOLLIN ROCK - SANDSTONE	WESTPHALIAN
9	On site	HLR-SDST	HOLLIN ROCK - SANDSTONE	WESTPHALIAN
10	On site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
11	On site	GS-SDAR	GWESPYR SANDSTONE - SANDSTONE AND [SUBEQUAL/SUBORDINATE] ARGILLACEOUS ROCKS, INTERBEDDED	NAMURIAN
12	On site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
13	On site	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
14	On site	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
15	On site	ETM-MDSC	ETRURIA FORMATION - MUDSTONE, SANDSTONE AND CONGLOMERATE	WESTPHALIAN
16	On site	GS-SDAR	GWESPYR SANDSTONE - SANDSTONE AND [SUBEQUAL/SUBORDINATE] ARGILLACEOUS ROCKS, INTERBEDDED	NAMURIAN
17	On site	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
18	On site	HLR-SDST	HOLLIN ROCK - SANDSTONE	WESTPHALIAN
19	On site	HLR-SDST	HOLLIN ROCK - SANDSTONE	WESTPHALIAN
20	On site	PMCM-SDST	PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
21	On site	GS-SDAR	GWESPYR SANDSTONE - SANDSTONE AND [SUBEQUAL/SUBORDINATE] ARGILLACEOUS ROCKS, INTERBEDDED	NAMURIAN
39	On site	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN



ID	Location	LEX Code	Description	Rock age
50	On site	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
53	12m SW	GS-SDAR	GWESPYR SANDSTONE - SANDSTONE AND [SUBEQUAL/SUBORDINATE] ARGILLACEOUS ROCKS, INTERBEDDED	NAMURIAN
54	13m SE	HLR-SDST	HOLLIN ROCK - SANDSTONE	WESTPHALIAN
55	17m NE	GS-SDAR	GWESPYR SANDSTONE - SANDSTONE AND [SUBEQUAL/SUBORDINATE] ARGILLACEOUS ROCKS, INTERBEDDED	NAMURIAN
57	37m S	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
59	39m SW	ETM-SDST	ETRURIA FORMATION - SANDSTONE	WESTPHALIAN
60	58m NE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
67	111m NE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
69	113m NW	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
71	125m N	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
76	168m NW	BSG-MDST	BOWLAND SHALE FORMATION - MUDSTONE	WISEAN
77	179m S	HLR-SDST	HOLLIN ROCK - SANDSTONE	WESTPHALIAN
78	181m SW	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
80	181m SW	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
86	229m SE	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
89	233m W	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
91	239m E	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
94	239m E	HLR-SDST	HOLLIN ROCK - SANDSTONE	WESTPHALIAN
101	286m W	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN



ID	Location	LEX Code	Description	Rock age
103	286m S	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
105	288m NW	GS-SDAR	GWESPYR SANDSTONE - SANDSTONE AND [SUBEQUAL/SUBORDINATE] ARGILLACEOUS ROCKS, INTERBEDDED	NAMURIAN
109	295m W	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
111	302m NE	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
113	305m W	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
116	335m NE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
119	341m SE	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
121	350m SW	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
129	379m SW	ETM-MDSC	ETRURIA FORMATION - MUDSTONE, SANDSTONE AND CONGLOMERATE	WESTPHALIAN
133	393m S	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
141	449m NW	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
143	471m NE	BSG-MDST	BOWLAND SHALE FORMATION - MUDSTONE	WISEAN
145	476m N	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
146	487m NE	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
148	487m NE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
151	496m E	HLR-SDST	HOLLIN ROCK - SANDSTONE	WESTPHALIAN

This data is sourced from the British Geological Survey.



15.9 Bedrock permeability (50k)

Records within 50m	16
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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	Moderate	Low
On site	Fracture	High	Low
On site	Fracture	High	Low
On site	Fracture	High	Moderate
On site	Fracture	Moderate	Low
On site	Fracture	Moderate	Low
On site	Fracture	High	Moderate
On site	Fracture	High	Moderate
On site	Fracture	Moderate	Low
On site	Fracture	Moderate	Low
On site	Fracture	Moderate	Low
On site	Fracture	High	Low
On site	Fracture	High	Moderate
12m SW	Fracture	Moderate	Low
13m SE	Fracture	High	Moderate
39m S	Fracture	High	Moderate

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	95
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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 137**



ID	Location	Category	Description
2	On site	FAULT	Fault, inferred, displacement unknown
22	On site	FAULT	Fault, inferred, displacement unknown
23	On site	FAULT	Fault, inferred, displacement unknown
24	On site	FAULT	Fault, inferred, displacement unknown
25	On site	FAULT	Fault, inferred, displacement unknown
26	On site	FAULT	Fault, inferred, displacement unknown
27	On site	FAULT	Fault, inferred, displacement unknown
28	On site	FAULT	Fault, inferred, displacement unknown
29	On site	FAULT	Fault, inferred, displacement unknown
30	On site	FAULT	Fault, inferred, displacement unknown
31	On site	FAULT	Fault, inferred, displacement unknown
32	On site	FAULT	Fault, inferred, displacement unknown
33	On site	FAULT	Fault, inferred, displacement unknown
34	On site	FAULT	Fault, inferred, displacement unknown
35	On site	FAULT	Fault, inferred, displacement unknown
36	On site	FAULT	Fault, inferred, displacement unknown
37	On site	ROCK	Coal seam, inferred
38	On site	ROCK	Coal seam, inferred
40	On site	ROCK	Coal seam, inferred
41	On site	ROCK	Coal seam, inferred
42	On site	ROCK	Coal seam, inferred
43	On site	ROCK	Coal seam, inferred
44	On site	ROCK	Coal seam, inferred
45	On site	ROCK	Coal seam, inferred
46	On site	ROCK	Coal seam, inferred
47	On site	ROCK	Coal seam, inferred
48	On site	ROCK	Coal seam, inferred
49	On site	ROCK	Coal seam, inferred



ID	Location	Category	Description
51	7m NE	ROCK	Coal seam, inferred
52	10m SW	ROCK	Coal seam, inferred
56	33m SW	ROCK	Coal seam, inferred
58	39m SW	FAULT	Fault, inferred, displacement unknown
61	58m NE	ROCK	Coal seam, inferred
62	58m NE	FAULT	Fault, inferred, displacement unknown
63	60m S	ROCK	Coal seam, inferred
64	77m SE	ROCK	Coal seam, inferred
65	84m N	ROCK	Coal seam, inferred
66	94m NE	ROCK	Coal seam, inferred
68	111m NE	FAULT	Fault, inferred, displacement unknown
70	116m NE	ROCK	Coal seam, inferred
72	125m S	ROCK	Coal seam, inferred
73	135m NE	ROCK	Coal seam, inferred
74	135m NE	ROCK	Coal seam, inferred
75	137m SE	ROCK	Coal seam, inferred
79	181m SW	FAULT	Fault, inferred
81	181m SW	ROCK	Coal seam, inferred
82	190m N	FAULT	Fault, inferred, displacement unknown
83	194m N	ROCK	Coal seam, inferred
84	196m W	ROCK	Coal seam, inferred
85	198m S	ROCK	Coal seam, inferred
87	229m SE	FAULT	Fault, inferred, displacement unknown
88	230m NW	ROCK	Coal seam, inferred
90	233m W	FAULT	Fault, inferred, displacement unknown
92	239m E	FAULT	Fault, inferred, displacement unknown
93	239m E	FAULT	Fault, inferred, displacement unknown
95	240m N	ROCK	Coal seam, inferred



ID	Location	Category	Description
96	241m NE	ROCK	Coal seam, inferred
97	247m NE	ROCK	Coal seam, inferred
98	272m S	ROCK	Coal seam, inferred
99	276m E	ROCK	Coal seam, inferred
100	283m NE	ROCK	Coal seam, inferred
102	286m W	FAULT	Fault, inferred, displacement unknown
104	286m S	FAULT	Fault, inferred, displacement unknown
106	288m NW	FAULT	Fault, inferred, displacement unknown
107	288m NW	FAULT	Fault, inferred, displacement unknown
108	295m W	FAULT	Fault, inferred, displacement unknown
110	298m NE	FAULT	Fault, inferred, displacement unknown
112	303m SE	ROCK	Coal seam, inferred
114	315m E	ROCK	Coal seam, inferred
115	320m SE	ROCK	Coal seam, inferred
117	335m NE	ROCK	Coal seam, inferred
118	336m W	ROCK	Coal seam, inferred
120	341m SE	ROCK	Coal seam, inferred
122	353m E	ROCK	Coal seam, inferred
123	358m SE	ROCK	Coal seam, inferred
124	360m NE	FAULT	Fault, inferred, displacement unknown
125	360m NE	ROCK	Coal seam, inferred
126	363m SE	FAULT	Fault, inferred, displacement unknown
127	371m NW	ROCK	Coal seam, inferred
128	378m N	ROCK	Coal seam, inferred
130	388m NW	ROCK	Coal seam, inferred
131	389m SE	ROCK	Coal seam, inferred
132	389m N	FAULT	Fault, inferred, displacement unknown
134	400m E	ROCK	Coal seam, inferred

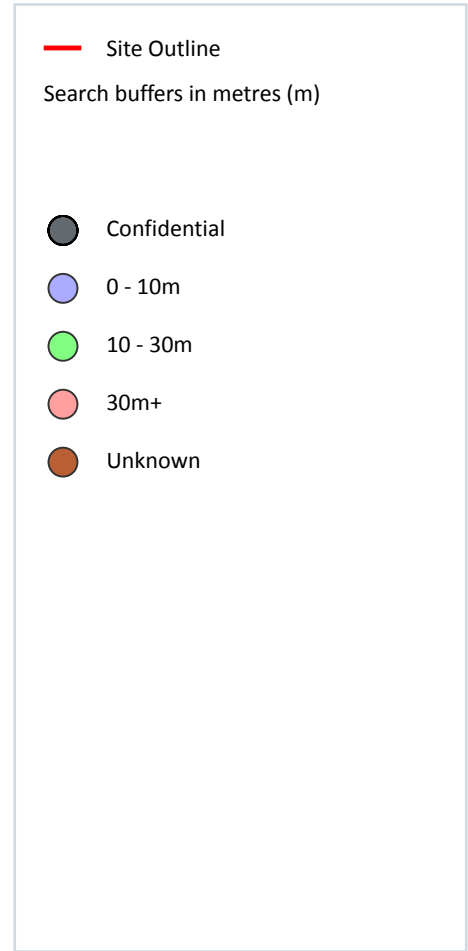
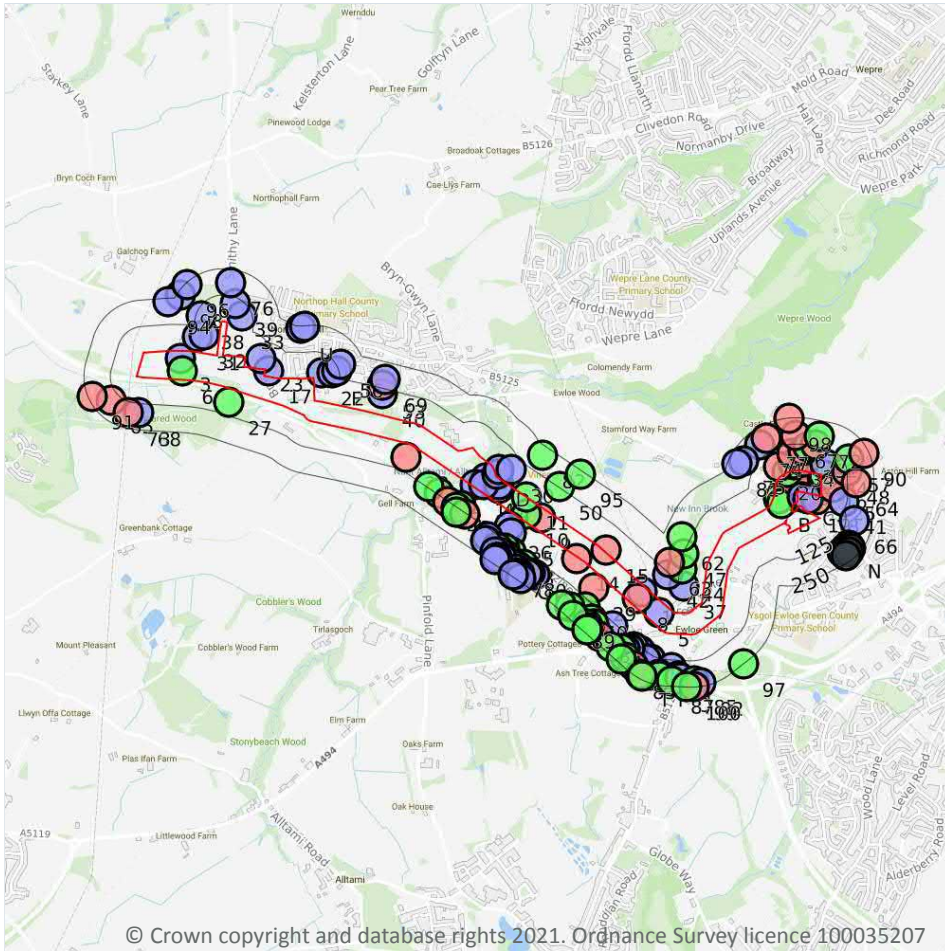


ID	Location	Category	Description
135	401m NW	FAULT	Fault, inferred, displacement unknown
136	404m W	ROCK	Coal seam, inferred
137	414m SE	ROCK	Coal seam, inferred
138	431m W	ROCK	Coal seam, inferred
139	433m N	ROCK	Coal seam, inferred
140	449m NW	FAULT	Fault, inferred, displacement unknown
142	467m NW	ROCK	Coal seam, inferred
144	476m N	FAULT	Fault, inferred, displacement unknown
147	487m NE	FAULT	Fault, inferred, displacement unknown
149	487m NE	ROCK	Coal seam, inferred
150	490m NE	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.



16 Boreholes



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16.1 BGS Boreholes

Records within 250m

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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 146**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	328490 366590	UNNAMED SHAFT	-2.0	N	148033
2	On site	327750 367130	SYCAMORE COLLIERY, ADIT	-2.0	N	147859
3	On site	326300 367700	MAIN COLLIERY, MINE PLAN	-2.0	N	147685

ID	Location	Grid reference	Name	Length	Confidential	Web link
4	On site	327740 367100	SYCAMORE COLLIERY, ADIT	-2.0	N	147858
5	On site	328570 366490	UNNAMED SHAFT	-2.0	N	147989
6	On site	326310 367640	PLAS-IFAN	13.6	N	146996
7	On site	329215 367116	WEPCE OPENCAST SITE. 1020	56.0	N	148209
8	On site	328470 366560	PARK HILL COLLIERY O/C. 13	33.53	N	147061
9	On site	328010 366940	PARK HILL COLLIERY O/C. 1	35.05	N	147049
10	On site	327940 366960	PARK HILL COLLIERY O/C. 2	28.96	N	147050
11	On site	327940 367040	PARK HILL COLLIERY O/C. 3	26.52	N	147051
12	On site	327700 367100	SYCAMORE COLLIERY, MINE PLAN	-2.0	N	147686
A	On site	327810 367080	PARK HILL COLLIERY, ADIT	-2.0	N	147863
A	On site	327810 367100	PARK HILL COLLIERY, ADIT	-2.0	N	147862
B	On site	329140 367030	PROPOSED HAWARDEN BY-PASS. 1	12.2	N	146990
B	On site	329150 367010	NEW INN BRIDGE FARM	12.1	N	147001
C	On site	329256 367064	WEPCE OPENCAST SITE. 685	59.0	N	148225
13	2m NW	329180 367160	CASTLE HILL COLLIERY, O/C. 1	12.19	N	147201
D	4m E	327800 367150	PARK HILL COLLIERY	-2.0	N	148044
14	7m SW	328180 366750	PARK HILL COLLIERY O/C. 16	45.72	N	147064
15	10m NE	328320 366790	PARK HILL COLLIERY O/C. 15	32.0	N	147063
16	17m E	329356 367144	WEPCE OPENCAST SITE. 786 ?	25.0	N	148190
17	19m E	326720 367640	NORTHOPHALL COLLIERY	-2.0	N	147851
D	20m E	327810 367170	SYCAMORE COLLIERY, ADIT	-2.0	N	147860
C	21m E	329250 367040	MARE HAY COLLIERY	-2.0	N	148078
18	24m S	329318 367026	WEPCE OPENCAST SITE. 684	40.0	N	148188
E	26m N	329209 367192	WEPCE OPENCAST SITE. 1021	56.0	N	148235
19	27m S	329280 367030	MARE HAY COLLIERY, ENGINE OR WATER SHAFT	-2.0	N	148079
E	34m N	329210 367200	CASTLE HILL COLLIERY, O/C. 2	12.19	N	147202
20	43m NW	329140 367183	WEPCE OPENCAST SITE. 115	47.0	N	148208
21	44m N	329260 367208	WEPCE OPENCAST SITE. 1017	46.46	N	148234



ID	Location	Grid reference	Name	Length	Confidential	Web link
22	46m NE	326970 367630	UNNAMED SHAFT	-2.0	N	147852
23	51m N	326680 367700	NORTHOPHALL COLLIERY	-2.0	N	147850
24	56m N	329360 367200	MARE HAY COLLIERY	-2.0	N	147872
25	56m E	329397 367088	WEPCE OPENCAST SITE. 686	71.0	N	148189
26	62m SW	327860 366900	PARK HILL COLLIERY NO.2, ADIT	-2.0	N	148045
27	64m S	326530 367490	WARED WOOD, O/C SITE. 309	18.29	N	147518
28	64m SW	327370 367230	NORTHORP HALL COLLIERY	186.51	N	148296
29	64m SW	328260 366610	PARK HILL COLLIERY O/C. 14	30.48	N	147062
30	67m NE	327870 367170	SYCAMORE COLLIERY, Y PIT	-2.0	N	147861
31	71m N	326380 367800	MINE COAL COLLIERY, NO.1 SHAFT	-2.0	N	147844
32	75m W	326410 367810	MINE COAL COLLIERY, NO.3 SHAFT	-2.0	N	147845
33	77m NE	326590 367900	GALCHOG COLLIERY, OLD SHAFT	-2.0	N	147843
34	80m N	329200 367246	WEPCE OPENCAST SITE. 1074	60.0	N	148207
35	82m SW	327870 366870	PARK HILL COLLIERY NO.2, SECTION SHAFT	-2.0	N	148046
F	92m E	327020 367630	DUBLIN MAIN COLLIERY	-2.0	N	147853
36	94m N	329255 367260	WEPCE OPENCAST SITE. 1023	65.0	N	148236
37	95m W	328690 366620	UNNAMED SHAFT	-2.0	N	148034
38	98m W	326400 367900	NORTHOP HALL COLLIERY	-2.0	N	147014
39	99m NE	326560 367960	GALCHOG COLLIERY, OLD SHAFT	-2.0	N	147842
40	99m N	327260 367530	DUBLIN MAIN COLLIERY, NO.2 SHAFT DOWNCAST	-2.0	N	147856
G	108m SW	327630 367000	HAWARDEN BY-PASS, (EXPLORATION ASSOCIATES). NO.5	14.5	N	147698
41	112m E	329450 367020	MARE HAY COLLIERY, ENGINE PIT	-2.0	N	147873
42	113m NE	328610 366670	UNNAMED PIT	-2.0	N	147990
F	114m E	327040 367640	DUBLIN MAIN COLLIERY	-2.0	N	147854
43	115m SW	327530 367060	HAWARDEN BY-PASS, (EXPLORATION ASSOCIATES). NO.16	15.1	N	147702
44	116m W	328680 366700	PARK HILL COLLIERY O/C. 11	21.34	N	147059
45	118m SW	327480 367090	HAWARDEN BY-PASS, (EXPLORATION ASSOCIATES). NO.15	21.3	N	147701



ID	Location	Grid reference	Name	Length	Confidential	Web link
46	118m N	329280 367280	CASTLE HILL COLLIERY, O/C. 3	12.19	N	147203
47	120m W	328690 366770	PARK HILL COLLIERY O/C. 10	16.76	N	147058
48	125m E	329464 367162	WEPCE OPENCAST SITE. 1126	61.0	N	148243
49	126m SW	327570 367020	HAWARDEN BY-PASS, (EXPLORATION ASSOCIATES). NO.17	40.0	N	147703
G	128m SW	327610 366990	HAWARDEN BY-PASS, (EXPLORATION ASSOCIATES). NO.6	15.7	N	147699
50	130m NE	328100 367090	PARK HILL COLLIERY O/C. 4	22.86	N	147052
51	130m SW	327650 366960	HAWARDEN BY-PASS, (EXPLORATION ASSOCIATES). NO.18	40.0	N	147704
52	135m N	329314 367290	WEPCE OPENCAST SITE. 1003	71.0	N	148203
53	138m N	327260 367570	DUBLIN MAIN COLLIERY NORTHOPHALL	135.94	N	146963
54	139m SW	328350 366430	MARE HAY COLLIERY, PIT	-2.0	N	147992
55	143m SW	328480 366310	CHE SIDE COLLIERY	-2.0	N	147884
56	144m NE	327060 367670	UNNAMED SHAFT	-2.0	N	148123
G	145m SW	327610 366970	HAWARDEN BY-PASS, (EXPLORATION ASSOCIATES). NO.7	12.2	N	147700
H	146m SW	328530 366270	CHE SIDE COLLIERY, OLD SHAFT	-2.0	N	147886
I	148m SW	328450 366330	CHE SIDE COLLIERY	-2.0	N	147883
57	150m NE	329470 367222	WEPCE OPENCAST SITE. 711	29.0	N	148194
58	156m SW	327870 366780	HAWARDEN BY-PASS, (EXPLORATION ASSOCIATES). NO.22	17.0	N	147706
H	156m SW	328510 366270	CHE SIDE COLLIERY	-2.0	N	147885
59	156m SW	327840 366800	HAWARDEN BY-PASS, (EXPLORATION ASSOCIATES). NO.21	25.0	N	147705
60	158m SW	328220 366520	EWLOE BARN COLLIERY O/C. 13	12.27	N	147220
J	160m SW	327759 366850	A55 GATEWAY SERVICES CLWYD TP 8	2.7	N	15628155
61	163m S	328630 366230	UNNAMED SHAFT	-2.0	N	148068
62	164m NW	328680 366850	PARK HILL COLLIERY O/C. 9	27.43	N	147057
63	164m NE	328620 366730	PARK HILL COLLIERY O/C. 8	42.67	N	147056
64	166m E	329506 367108	WEPCE OPENCAST SITE. 1128	70.9	N	148222



ID	Location	Grid reference	Name	Length	Confidential	Web link
65	167m SW	325970 367500	WARED WOOD, O/C SITE. 116	30.48	N	147515
66	167m E	329500 366930	NEW MARE HAY COLLIERY	-2.0	N	147874
67	169m N	329218 367335	WEPCE OPENCAST SITE. 1004	60.0	N	148205
I	169m SW	328430 366320	HAWARDEN BY-PASS, (EXPLORATION ASSOCIATES). NO.35A	18.0	N	147719
I	169m SW	328430 366320	HAWARDEN BY-PASS, (EXPLORATION ASSOCIATES). NO.35	-2.0	N	147720
68	170m S	326100 367440	WARED WOOD, O/C SITE. 308	9.45	N	147517
69	170m N	327270 367600	DUBLIN MAIN COLLIERY, NO.1 SHAFT UPCAST	-2.0	N	147855
70	172m SW	327930 366720	HAWARDEN BY-PASS, (EXPLORATION ASSOCIATES). NO.23	15.0	N	147707
71	174m SW	327804 366803	A55 GATEWAY SERVICES CLWYD TP 7	2.9	N	15628153
72	177m N	329330 367330	CASTLE HILL COLLIERY, O/C. 6	12.19	N	147206
73	178m S	326050 367440	WARED WOOD, O/C SITE. 117	39.62	N	147516
J	179m SW	327749 366834	A55 GATEWAY SERVICES CLWYD TP 9	3.0	N	15628157
K	181m SW	327844 366768	A55 GATEWAY SERVICES CLWYD TP 3	2.5	N	15628149
74	181m NW	329050 367290	UNNAMED SHAFT	-2.0	N	147870
I	182m SW	328410 366320	PIT	-2.0	N	148141
L	183m SW	328250 366460	HOMESTEAD	15.3	N	147000
L	183m SW	328250 366460	EWLOE BARN COLLIERY O/C. 10	16.76	N	147219
M	185m SW	327980 366670	PROPOSED HAWARDEN BY-PASS. 8	9.0	N	146991
75	186m NW	328970 367210	UNNAMED SHAFT	-2.0	N	147871
K	188m SW	327822 366774	A55 GATEWAY SERVICES CLWYD 2	8.3	N	15628144
M	188m SW	327960 366680	HAWARDEN BY-PASS, (EXPLORATION ASSOCIATES). NO.24	35.0	N	147708
N	189m SE	329470 366810	FORMER ATS DEPOT HOLYWELL ROAD EWLOE 1	-	Y	N/A
N	190m SE	329460 366800	FORMER ATS DEPOT HOLYWELL ROAD EWLOE WS2	-	Y	N/A
76	190m N	326540 368060	CHARLES PIT	-2.0	N	147835
77	191m NW	329080 367320	CASTLE HILL FARM	50.0	N	1136365
L	192m SW	328260 366440	EWLOE BARN COLLIERY O/C. 1	18.29	N	147216



ID	Location	Grid reference	Name	Length	Confidential	Web link
O	192m SW	327903 366714	A55 GATEWAY SERVICES CLWYD TP 17	2.5	N	15628166
N	193m SE	329440 366780	FORMER ATS DEPOT HOLYWELL ROAD EWLOE 3	-	Y	N/A
I	195m SW	328390 366320	EWLOE HALL SITE. 302	12.19	N	147657
N	197m SE	329460 366790	FORMER ATS DEPOT HOLYWELL ROAD EWLOE WS4	-	Y	N/A
P	199m S	328570 366200	PIT	-2.0	N	148142
78	200m SW	327875 366723	A55 GATEWAY SERVICES CLWYD TP 2	2.45	N	15628148
79	201m SW	327792 366779	A55 GATEWAY SERVICES CLWYD TP 6	2.9	N	15628152
Q	201m S	328660 366190	HAWARDEN BY-PASS, (EXPLORATION ASSOCIATES). NO.39B	20.0	N	147726
M	202m SW	327944 366675	A55 GATEWAY SERVICES CLWYD TP 1	2.6	N	15628147
N	204m SE	329480 366800	FORMER ATS DEPOT HOLYWELL ROAD EWLOE WS1	-	Y	N/A
80	205m SW	328150 366520	EWLOE BARN COLLIERY O/C. 14	12.8	N	147221
K	206m SW	327824 366751	A55 GATEWAY SERVICES CLWYD TP 4	2.4	N	15628150
81	209m NW	328940 367200	UNNAMED SHAFT	-2.0	N	148031
P	209m S	328570 366190	HAWARDEN BY-PASS, (EXPLORATION ASSOCIATES). NO.38	20.0	N	147723
82	209m NE	328020 367240	PARK HILL COLLIERY O/C. 17	24.38	N	147065
Q	211m S	328670 366180	HAWARDEN BY-PASS, (EXPLORATION ASSOCIATES). NO.42A	9.0	N	147730
N	211m SE	329470 366780	FORMER ATS DEPOT HOLYWELL ROAD EWLOE 2	-	Y	N/A
R	211m SW	328230 366440	EWLOE BARN COLLIERY O/C. 9	16.76	N	147218
S	212m SW	328410 366280	EWLOE HALL SITE. 304	12.5	N	147658
O	214m SW	327888 366698	A55 GATEWAY SERVICES CLWYD TP 16	2.45	N	15628164
83	215m SW	328450 366240	HAWARDEN BY-PASS, (EXPLORATION ASSOCIATES). NO.36	30.75	N	147721
K	217m SW	327802 366753	A55 GATEWAY SERVICES CLWYD 1A	6.2	N	15628143
84	217m SW	328290 366380	HAWARDEN BY-PASS, (EXPLORATION ASSOCIATES). NO.32	40.0	N	147716
K	217m SW	327801 366753	A55 GATEWAY SERVICES CLWYD 1	3.23	N	15628142



ID	Location	Grid reference	Name	Length	Confidential	Web link
85	219m S	328740 366170	HAWARDEN BY-PASS, (EXPLORATION ASSOCIATES). NO.40	14.0	N	147727
O	219m SW	327912 366675	A55 GATEWAY SERVICES CLWYD TP 15	2.3	N	15628163
R	220m SW	328240 366420	EWLOE BARN COLLIERY O/C. 8	13.72	N	147217
86	221m SW	328340 366330	HAWARDEN BY-PASS, (EXPLORATION ASSOCIATES). NO.31	12.0	N	147715
N	221m SE	329460 366760	FORMER ATS DEPOT HOLYWELL ROAD EWLOE WS3	-	Y	N/A
87	223m S	328630 366170	HAWARDEN BY-PASS, (EXPLORATION ASSOCIATES). NO.39	20.0	N	147724
88	224m SW	328110 366530	EWLOE BARN COLLIERY O/C. 15	15.72	N	147222
O	226m SW	327889 366683	A55 GATEWAY SERVICES CLWYD 4	6.0	N	15628146
K	228m SW	327794 366745	A55 GATEWAY SERVICES CLWYD TP 5	2.5	N	15628151
89	228m SW	328160 366480	HAWARDEN BY-PASS, (EXPLORATION ASSOCIATES). NO.27	11.5	N	147709
90	229m NE	329544 367250	WEPCE OPENCAST SITE. 712	46.0	N	148195
T	231m SW	328480 366200	HAWARDEN BY-PASS, (EXPLORATION ASSOCIATES). NO.37	37.0	N	147722
91	232m SW	325880 367520	WARED WOOD, O/C SITE. 115	30.48	N	147514
92	232m S	328770 366160	HAWARDEN BY-PASS, (EXPLORATION ASSOCIATES). NO.45	8.0	N	147734
S	233m SW	328390 366270	HAWARDEN BY-PASS, (EXPLORATION ASSOCIATES). NO.34	17.0	N	147718
93	234m NW	326300 368000	GALCHOG COLLIERY, MINE PLAN	-2.0	N	147684
R	234m SW	328230 366410	HAWARDEN BY-PASS, (EXPLORATION ASSOCIATES). NO.28	17.5	N	147710
R	234m SW	328230 366410	HAWARDEN BY-PASS, (EXPLORATION ASSOCIATES). NO.28R	15.25	N	147712
O	234m SW	327914 366656	A55 GATEWAY SERVICES CLWYD TP 18	2.7	N	15628168
T	235m SW	328490 366190	EWLOE HALL SITE. 128	11.58	N	147659
94	236m N	326240 367970	MAIN COAL COLLIERY, NO.2 SHAFT D/C, NO.1 SHAFT	-2.0	N	147831
95	236m NE	328200 367150	PARK HILL COLLIERY O/C. 5	25.91	N	147053

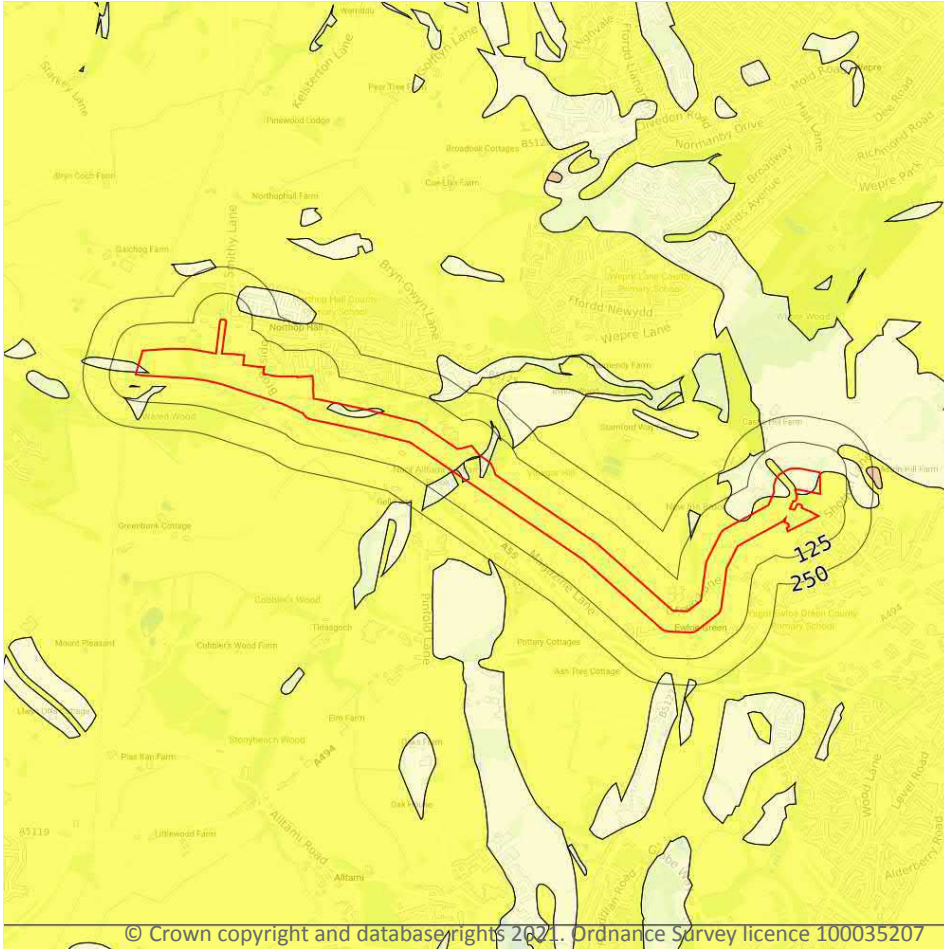


ID	Location	Grid reference	Name	Length	Confidential	Web link
U	237m N	326870 367840	NORTHOPHALL COLLIERY, BELL PIT	-2.0	N	147849
O	239m SW	327879 366674	A55 GATEWAY SERVICES CLWYD TP 14	2.9	N	15628162
96	243m NW	326330 368050	GALCLWG COLLIERY, NO.2 SHAFT	-2.0	N	147833
U	247m N	326890 367850	NORTHOPHALL COLLIERY, BELL PIT	-2.0	N	147847
97	248m SE	328970 366250	HAWARDEN BY-PASS, (EXPLORATION ASSOCIATES). NO.56	20.0	N	147745
98	249m N	329188 367414	WEPCE OPENCAST SITE. 1005	60.0	N	148239
99	249m S	328740 366140	HAWARDEN BY-PASS, (EXPLORATION ASSOCIATES). NO.44	40.0	N	147733
100	249m S	328700 366140	HAWARDEN BY-PASS, (EXPLORATION ASSOCIATES). NO.42	14.1	N	147729

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



17.1 Shrink swell clays

Records within 50m

3

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 154**

Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.
On site	Very low	Ground conditions predominantly low plasticity.
45m S	Negligible	Ground conditions predominantly non-plastic.

This data is sourced from the British Geological Survey.

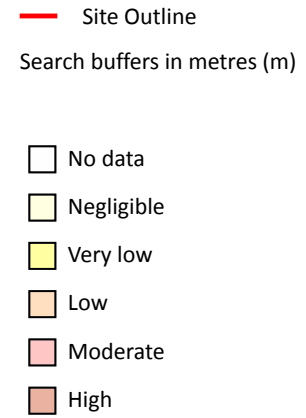
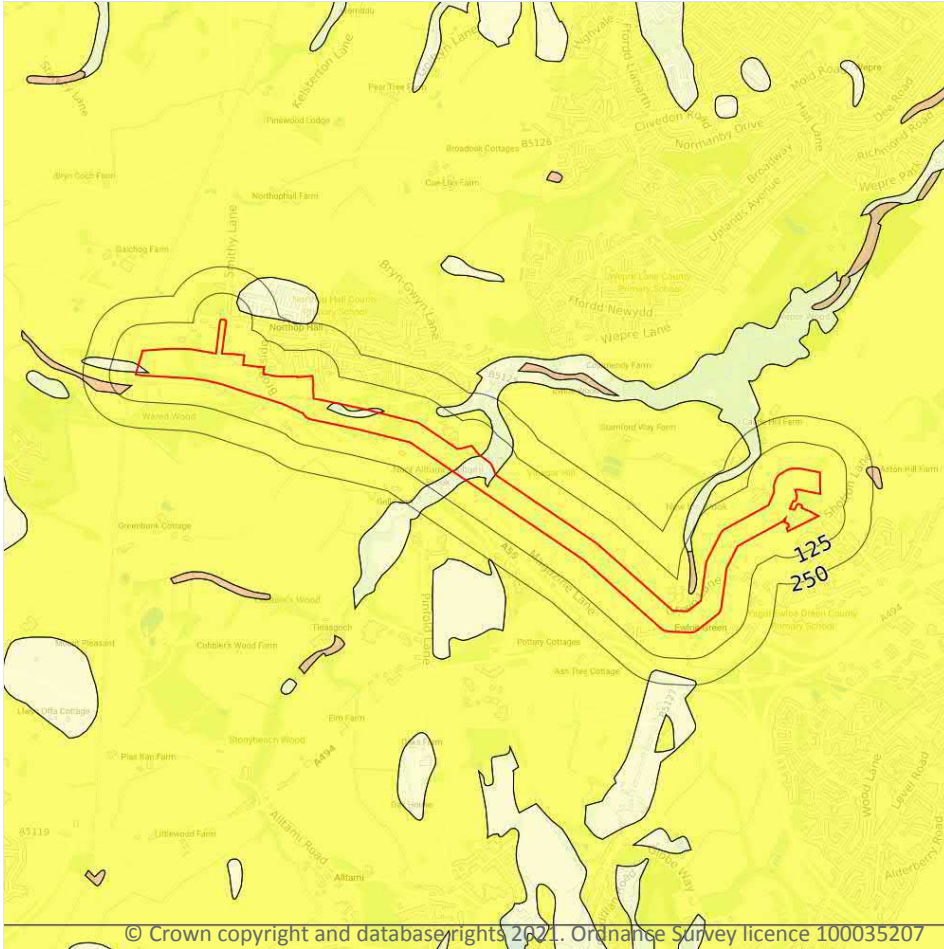


Contact us with any questions at:


08444 159 000

Date: 30 July 2021

Natural ground subsidence - Running sands



17.2 Running sands

Records within 50m

3

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 156**

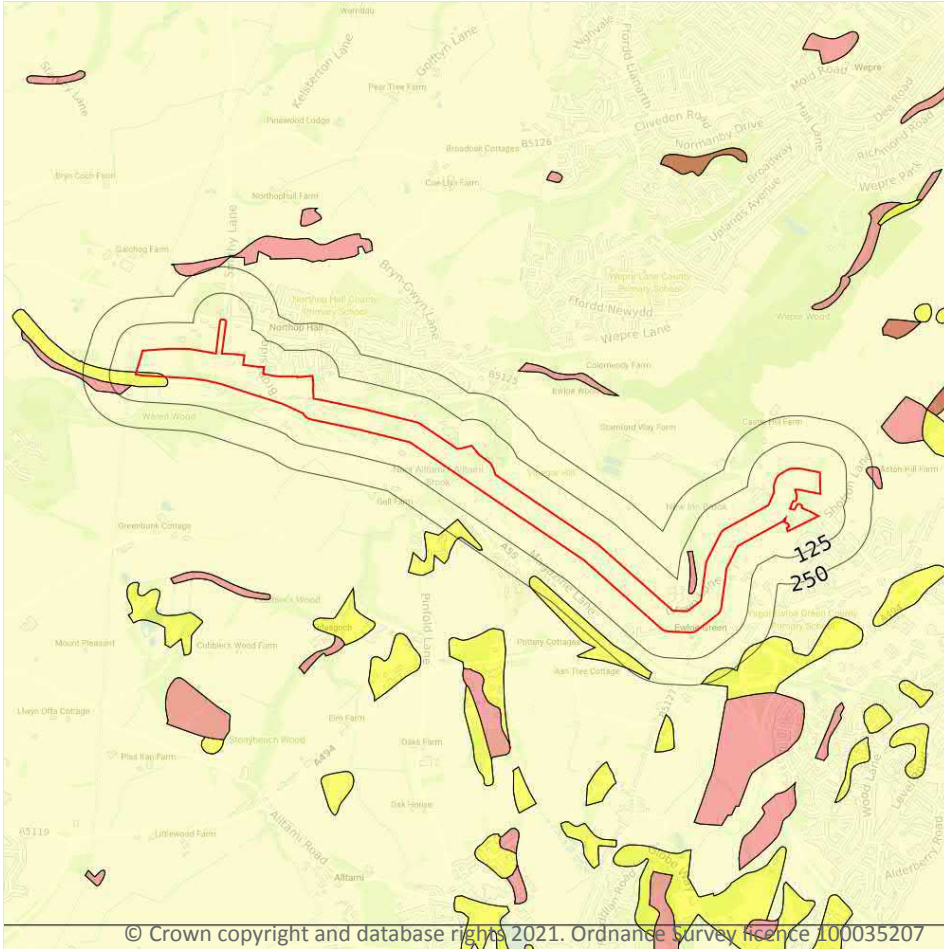
Location	Hazard rating	Details
On site	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.
33m W	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



— 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

3

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

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 158**

Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.
On site	Very low	Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses.

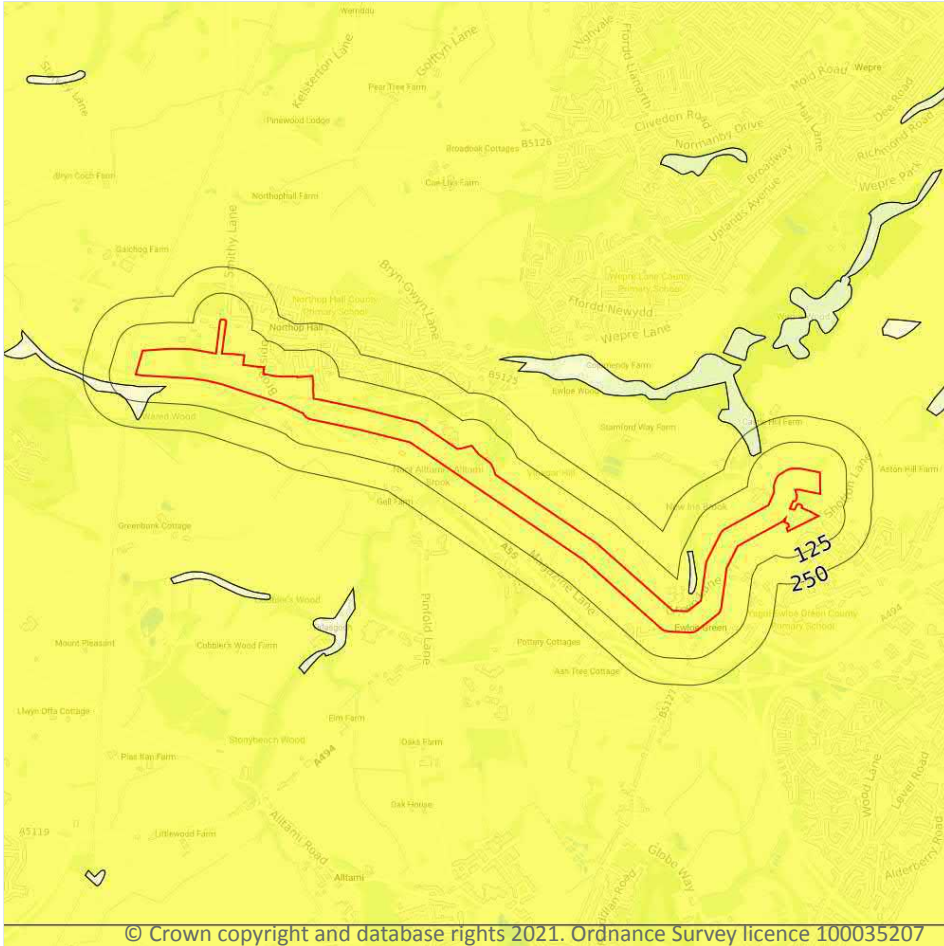


Location	Hazard rating	Details
33m W	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



— 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

3

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 160**

Location	Hazard rating	Details
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.
33m W	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.
45m S	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.

This data is sourced from the British Geological Survey.

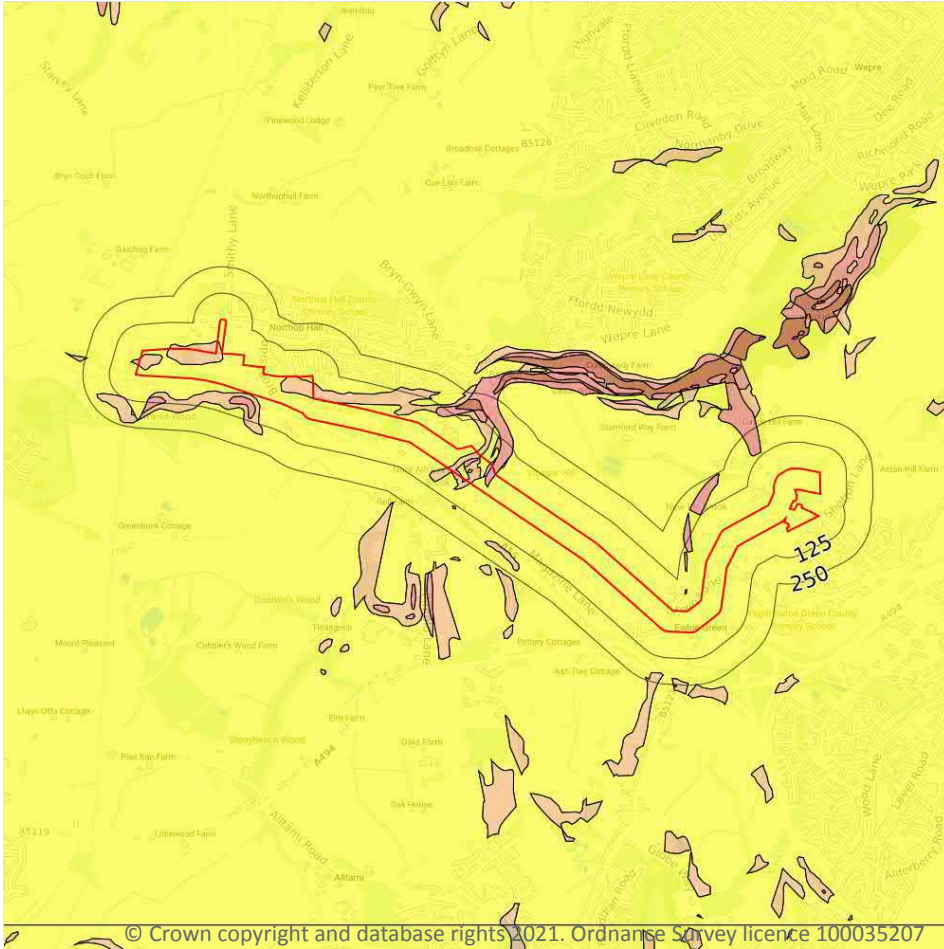


Contact us with any questions at:

██████████
08444 159 000

Date: 30 July 2021

Natural ground subsidence - Landslides



— Site Outline
Search buffers in metres (m)

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

17.5 Landslides

Records within 50m

7

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 161**

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.

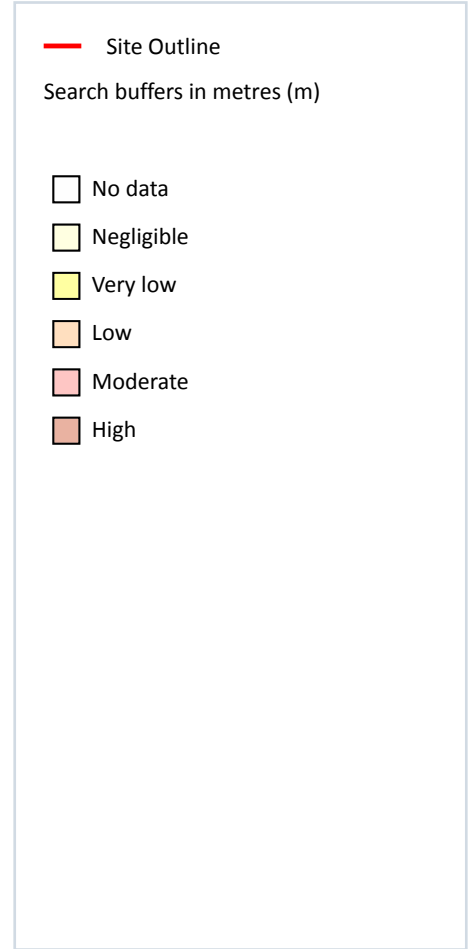
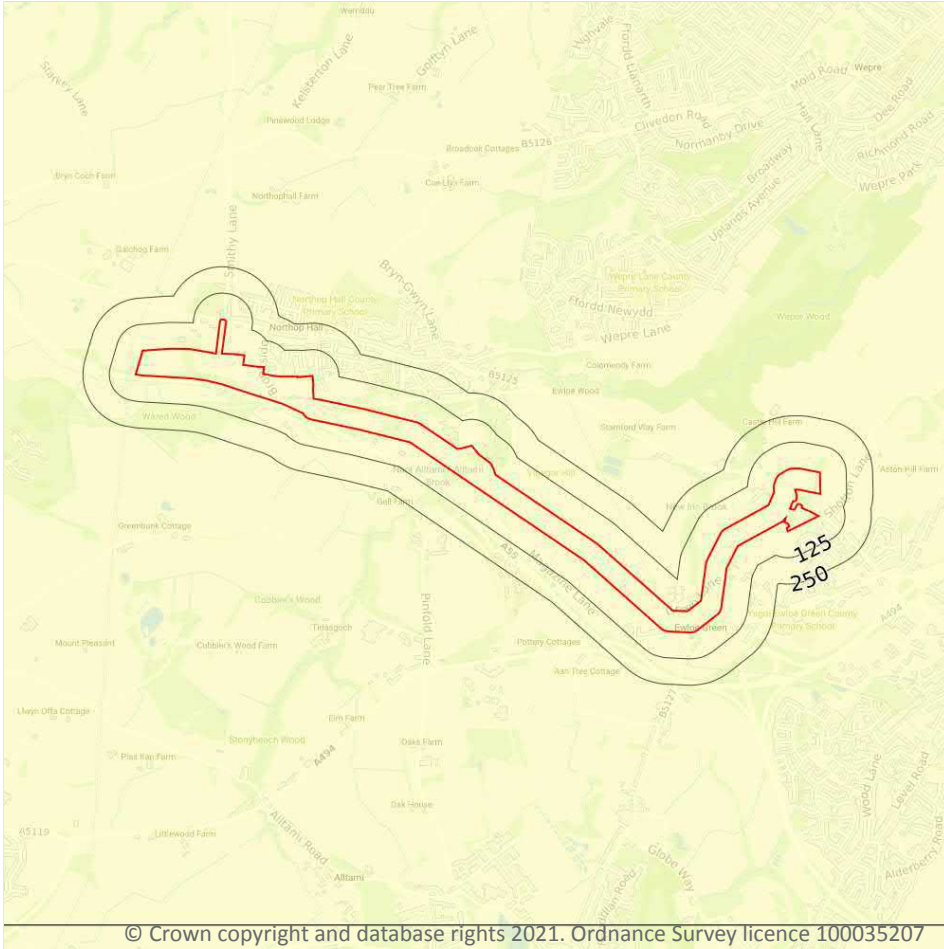


Location	Hazard rating	Details
On site	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
On site	Moderate	Slope instability problems are probably present or have occurred in the past. Land use should consider specifically the stability of the site.
4m S	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
24m S	Moderate	Slope instability problems are probably present or have occurred in the past. Land use should consider specifically the stability of the site.
26m NE	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
29m E	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



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17.6 Ground dissolution of soluble rocks

Records within 50m

1

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


Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 163**

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

This data is sourced from the British Geological Survey.

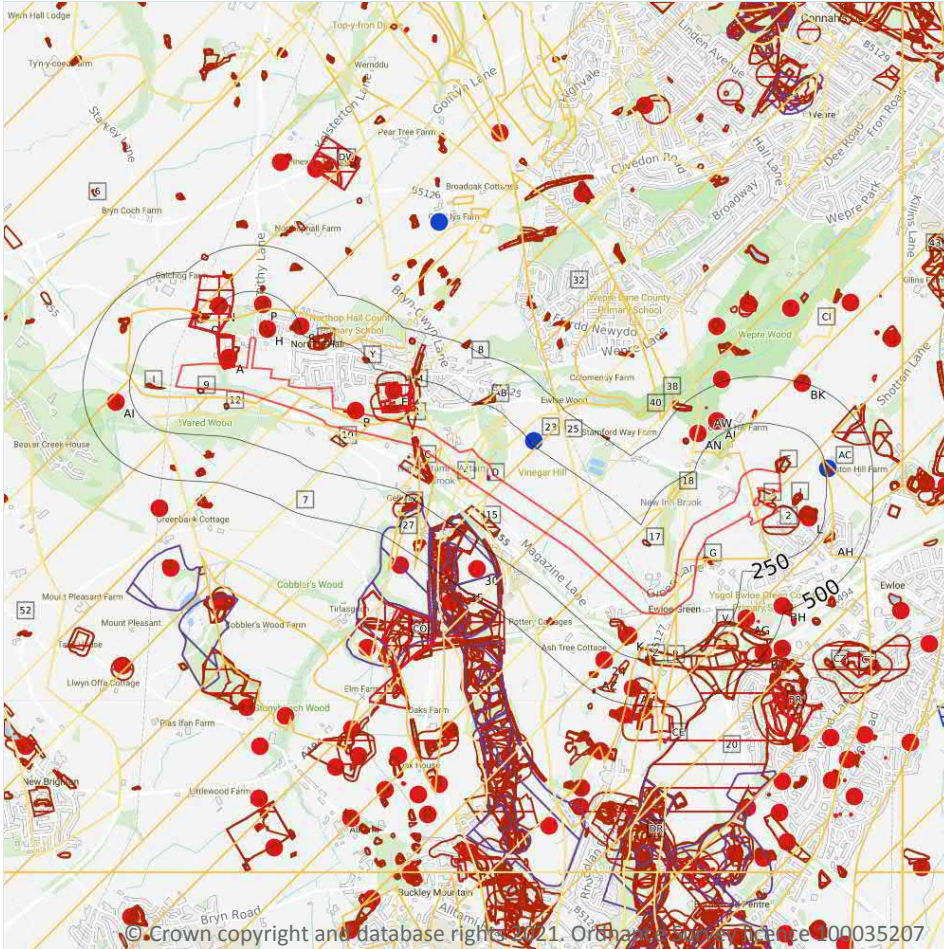


Contact us with any questions at:


08444 159 000

Date: 30 July 2021

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

3

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

Features are displayed on the Mining, ground workings and natural cavities map on [page 165](#)

ID	Location	Details	Source
AC	261m E	Type: Swallow Hole x 1 Superficial Geology: - Bedrock Geology: Carboniferous Limestone Supergroup, Lower Coal Measures, Middle Coal Measures, Millstone Grit Group, Upper Carboniferous Limestone	Simple Bibliography: British Geological Survey Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely
23	275m NE	Type: Swallow Hole x 1 Superficial Geology: - Bedrock Geology: Carboniferous Limestone Supergroup, Lower Coal Measures, Middle Coal Measures, Millstone Grit Group, Upper Carboniferous Limestone	Simple Bibliography: British Geological Survey Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely
25	334m NE	Type: Swallow Hole x 1 Superficial Geology: - Bedrock Geology: Carboniferous Limestone Supergroup, Lower Coal Measures, Middle Coal Measures, Millstone Grit Group, Upper Carboniferous Limestone	Simple Bibliography: British Geological Survey Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely

This data is sourced from Stantec UK Ltd.

18.2 BritPits

Records within 500m

25

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.

Features are displayed on the Mining, ground workings and natural cavities map on **page 165**

ID	Location	Details	Description
B	7m N	Name: Dublin Main Address: Connah's Quay, CONNAH'S QUAY, Flintshire Commodity: Sand & Gravel Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority



ID	Location	Details	Description
A	39m N	Name: Boar's Head Farm Address: Connah's Quay, CONNAH'S QUAY, Flintshire Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
H	82m NE	Name: Northophall Cottages Address: Connah's Quay, CONNAH'S QUAY, Flintshire Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
K	141m SW	Name: Ewloegreen Farm Address: Ewloe, BUCKLEY, Flintshire Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
E	159m N	Name: Dublin Main Address: Connah's Quay, CONNAH'S QUAY, Flintshire Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
L	167m E	Name: Ashton Hill Farm Address: Connah's Quay, CONNAH'S QUAY, Flintshire Commodity: Lead Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority



ID	Location	Details	Description
P	185m N	Name: Boar's Head Farm Address: Connah's Quay, CONNAH'S QUAY, Flintshire Commodity: Coal, Deep Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
N	244m NW	Name: Boar's Head Farm Address: Connah's Quay, CONNAH'S QUAY, Flintshire Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
O	245m N	Name: Boar's Head Farm Address: Connah's Quay, CONNAH'S QUAY, Flintshire Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
S	251m E	Name: Northophall Cottages Address: Connah's Quay, CONNAH'S QUAY, Flintshire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
AH	316m SE	Name: Boar's Head Address: Ewloe, BUCKLEY, Flintshire Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority



ID	Location	Details	Description
AG	317m SE	Name: Ewloe Green Address: Ewloe, BUCKLEY, Flintshire Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
AJ	321m NW	Name: Castle Hill Address: Connah's Quay, CONNAH'S QUAY, Flintshire Commodity: Lead Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
24	326m SW	Name: Cheapside Colliery, No. 2 Shaft Address: BUCKLEY, Flintshire Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
AN	332m NW	Name: Castle Hill Brewery Address: Connah's Quay, CONNAH'S QUAY, Flintshire Commodity: Lead Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
AI	332m W	Name: Wared Wood Quarry Address: Northrop, CONNAH'S QUAY, Flintshire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority



ID	Location	Details	Description
30	367m SW	Name: Parry's Quarry Address: Ewloe, BUCKLEY, Flintshire Commodity: Fireclay Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
AW	396m NW	Name: Castle Hill Address: Connah's Quay, CONNAH'S QUAY, Flintshire Commodity: Lead Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
AV	409m S	Name: Cross Farm Quarry Address: Ewloe, BUCKLEY, Flintshire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
AZ	419m SW	Name: Cheapside Colliery, No. 1 Shaft Address: BUCKLEY, Flintshire Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
Q	458m SW	Name: Castle Brick Works Address: Ewloe, BUCKLEY, Flintshire Commodity: Fireclay Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority



ID	Location	Details	Description
BH	465m S	Name: Marehay Colliery Pit Address: Ewloe, BUCKLEY, Flintshire Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
35	489m SW	Name: Parry's Quarry Address: Ewloebarn, BUCKLEY, Flintshire Commodity: Clay & Shale Status: Inactive	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, is not extracting minerals, but which still has a valid planning permission to do so, and can restart at any time. May be considered Mothballed by operator. May be considered to have Active or Dormant planning permission
BC	490m SE	Name: Ewloe Green Address: Ewloe, BUCKLEY, Flintshire Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
BK	497m N	Name: Wepre Wood Address: Connah's Quay, CONNAH'S QUAY, Flintshire Commodity: Sand Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m	184
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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 165**



ID	Location	Land Use	Year of mapping	Mapping scale
1	On site	Unspecified Heap	1991	1:10000
2	On site	Old Colliery	1869	1:10560
3	On site	Unspecified Heap	1869	1:10560
A	On site	Colliery	1898	1:10560
A	On site	Unspecified Ground Workings	1910	1:10560
A	On site	Colliery	1910	1:10560
A	On site	Unspecified Ground Workings	1970	1:10560
A	On site	Colliery	1948	1:10560
A	On site	Unspecified Ground Workings	1948	1:10560
A	On site	Colliery	1938	1:10560
A	On site	Unspecified Heap	1938	1:10560
A	On site	Colliery	1938	1:10560
A	On site	Unspecified Heap	1938	1:10560
B	On site	Old Gravel Pit	1960	1:10560
B	On site	Old Gravel Pit	1910	1:10560
B	On site	Old Gravel Pit	1970	1:10560
B	On site	Sand Pit	1869	1:10560
B	On site	Old Gravel Pit	1938	1:10560
C	On site	Cuttings	1910	1:10560
C	On site	Cuttings	1981	1:10000
C	On site	Cuttings	1960	1:10560
C	On site	Cuttings	1970	1:10560
C	On site	Unspecified Heap	1938	1:10560
C	On site	Cuttings	1948	1:10560
C	On site	Cuttings	1898	1:10560
C	On site	Cuttings	1869	1:10560
C	On site	Unspecified Heap	1938	1:10560
E	On site	Colliery	1898	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
9	1m S	Unspecified Heap	1970	1:10560
B	2m N	Old Gravel Pit	1948	1:10560
B	2m N	Old Gravel Pit	1898	1:10560
F	2m N	Unspecified Heap	1869	1:10560
F	3m N	Refuse Heap	1948	1:10560
F	5m N	Unspecified Heap	1938	1:10560
F	5m N	Unspecified Heap	1938	1:10560
F	5m N	Unspecified Heap	1960	1:10560
F	7m N	Unspecified Ground Workings	1910	1:10560
A	21m N	Unspecified Heap	1898	1:10560
G	29m SE	Pond	1869	1:10560
E	30m N	Disused Colliery	1938	1:10560
E	30m N	Disused Colliery	1938	1:10560
E	31m N	Disused Colliery	1948	1:10560
E	32m N	Disused Colliery	1910	1:10560
G	33m SE	Pond	1938	1:10560
G	34m SE	Pond	1909	1:10560
E	35m N	Unspecified Heap	1938	1:10560
E	35m N	Unspecified Heap	1938	1:10560
G	35m SE	Ponds	1898	1:10560
E	36m N	Unspecified Heap	1970	1:10560
E	37m N	Unspecified Heap	1960	1:10560
E	38m N	Unspecified Heap	1910	1:10560
G	39m SE	Pond	1960	1:10560
10	43m S	Cuttings	1991	1:10000
E	49m N	Unspecified Heap	1948	1:10560
E	49m N	Unspecified Heap	1898	1:10560
H	58m NE	Unspecified Heap	1869	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
H	63m NE	Unspecified Heap	1938	1:10560
H	63m NE	Unspecified Heap	1938	1:10560
H	64m NE	Unspecified Heap	1898	1:10560
H	65m NE	Unspecified Heap	1910	1:10560
11	66m S	Unspecified Hole	1869	1:10560
12	72m S	Ponds	1869	1:10560
I	73m W	Unspecified Pit	1960	1:10560
J	82m E	Unspecified Heap	1948	1:10560
J	82m E	Unspecified Heap	1898	1:10560
J	83m E	Unspecified Heap	1910	1:10560
J	84m SE	Unspecified Heap	1987	1:10000
J	84m SE	Unspecified Heap	1981	1:10000
J	84m SE	Unspecified Heap	1938	1:10560
J	84m SE	Unspecified Heap	1938	1:10560
13	87m SW	Cuttings	1991	1:10000
J	88m SE	Unspecified Heap	1960	1:10560
J	88m SE	Unspecified Heap	1970	1:10560
J	89m SE	Unspecified Heap	1869	1:10560
14	91m S	Cuttings	1987	1:10000
15	103m SW	Cuttings	1987	1:10000
I	104m W	Unspecified Ground Workings	1970	1:10560
K	105m SW	Refuse Heap	1869	1:10560
K	110m SW	Refuse Heap	1898	1:10560
16	111m SW	Cuttings	1991	1:10000
L	113m E	Unspecified Ground Workings	1910	1:10560
L	113m E	Unspecified Heap	1948	1:10560
L	114m E	Unspecified Heap	1970	1:10560
L	115m E	Unspecified Heap	1960	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
L	116m E	Unspecified Ground Workings	1938	1:10560
L	116m E	Unspecified Ground Workings	1938	1:10560
L	117m E	Unspecified Heap	1898	1:10560
L	118m E	Unspecified Heap	1869	1:10560
E	124m N	Unspecified Heap	1960	1:10560
E	124m N	Unspecified Heap	1970	1:10560
E	124m N	Unspecified Heap	1938	1:10560
E	124m N	Unspecified Heap	1938	1:10560
E	125m N	Unspecified Heap	1910	1:10560
E	135m N	Unspecified Heap	1948	1:10560
E	135m N	Unspecified Heap	1898	1:10560
M	140m N	Cuttings	1869	1:10560
17	161m W	Pond	1991	1:10000
N	161m NW	Disused Colliery	1898	1:10560
O	166m NW	Colliery	1869	1:10560
P	172m N	Unspecified Heap	1938	1:10560
P	172m N	Unspecified Heap	1938	1:10560
P	172m N	Unspecified Heap	1910	1:10560
P	174m N	Unspecified Heap	1948	1:10560
P	174m N	Unspecified Heap	1898	1:10560
P	174m N	Unspecified Heap	1960	1:10560
P	174m N	Unspecified Heap	1970	1:10560
P	175m N	Unspecified Heap	1987	1:10000
P	175m N	Unspecified Heap	1981	1:10000
Q	186m SW	Brick Works	1869	1:10560
Q	186m SW	Brick Works	1898	1:10560
R	188m S	Cuttings	1991	1:10000
R	189m S	Cuttings	1987	1:10000



ID	Location	Land Use	Year of mapping	Mapping scale
Q	189m SW	Brick Works	1869	1:10560
S	195m E	Unspecified Quarry	1869	1:10560
M	196m N	Cuttings	1948	1:10560
M	196m N	Cuttings	1938	1:10560
M	197m N	Cuttings	1910	1:10560
T	198m N	Cuttings	1960	1:10560
T	198m N	Cuttings	1970	1:10560
U	203m NE	Unspecified Heap	1869	1:10560
V	204m SE	Unspecified Ground Workings	1991	1:10000
V	204m SE	Unspecified Ground Workings	1987	1:10000
S	204m E	Unspecified Old Quarry	1938	1:10560
S	206m E	Unspecified Old Quarry	1948	1:10560
S	207m E	Unspecified Old Quarry	1960	1:10560
Q	207m SW	Brick Works	1909	1:10560
S	207m E	Unspecified Old Quarry	1898	1:10560
S	208m E	Unspecified Old Quarry	1910	1:10560
Q	208m SW	Brick Works	1948	1:10560
S	208m E	Unspecified Ground Workings	1970	1:10560
Q	209m SW	Brick Works	1938	1:10560
Q	209m SW	Brick Works	1938	1:10560
U	210m N	Unspecified Ground Workings	1960	1:10560
U	210m N	Unspecified Heap	1938	1:10560
U	210m N	Unspecified Heap	1938	1:10560
U	211m N	Unspecified Ground Workings	1910	1:10560
U	212m N	Unspecified Heap	1970	1:10560
W	213m SW	Cuttings	1869	1:10560
N	214m NW	Unspecified Heap	1948	1:10560
N	215m NW	Unspecified Heap	1938	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
N	215m NW	Unspecified Heap	1938	1:10560
N	216m NW	Unspecified Heap	1910	1:10560
N	216m NW	Unspecified Heap	1960	1:10560
N	216m NW	Unspecified Heap	1970	1:10560
U	218m N	Unspecified Ground Workings	1948	1:10560
U	218m N	Unspecified Ground Workings	1898	1:10560
N	218m NW	Unspecified Heap	1987	1:10000
N	218m NW	Unspecified Heap	1981	1:10000
X	218m SW	Unspecified Old Quarry	1960	1:10560
N	221m NW	Unspecified Heap	1898	1:10560
W	221m SW	Cuttings	1869	1:10560
Q	221m SW	Unspecified Heap	1948	1:10560
Q	221m SW	Unspecified Ground Workings	1909	1:10560
Q	222m SW	Unspecified Heap	1960	1:10560
Q	222m SW	Unspecified Heap	1938	1:10560
Q	222m SW	Unspecified Heap	1938	1:10560
O	223m N	Unspecified Heap	1869	1:10560
20	225m SE	Opencast Workings	1981	1:10000
Y	226m NE	Unspecified Heap	1938	1:10560
Y	226m NE	Unspecified Heap	1938	1:10560
Y	227m NE	Unspecified Heap	1948	1:10560
N	228m NW	Unspecified Heap	1991	1:10000
Z	228m S	Unspecified Heap	1869	1:10560
O	228m N	Unspecified Heap	1948	1:10560
O	229m N	Unspecified Heap	1938	1:10560
O	229m N	Unspecified Heap	1938	1:10560
Y	229m NE	Unspecified Heap	1910	1:10560
O	230m N	Unspecified Heap	1910	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
O	230m N	Unspecified Pit	1960	1:10560
Q	231m SW	Unspecified Heap	1898	1:10560
O	231m N	Unspecified Heap	1970	1:10560
N	234m NW	Unspecified Heap	1869	1:10560
Z	234m S	Unspecified Heap	1938	1:10560
Z	234m S	Unspecified Heap	1938	1:10560
Z	235m S	Unspecified Heap	1869	1:10560
Z	236m S	Unspecified Heap	1909	1:10560
Z	238m S	Unspecified Heap	1948	1:10560
Z	238m S	Unspecified Heap	1898	1:10560
Z	241m S	Unspecified Heap	1960	1:10560
AB	243m N	Unspecified Pit	1991	1:10000
AB	243m N	Unspecified Pit	1987	1:10000
AB	243m N	Unspecified Pit	1970	1:10560
X	243m SW	Unspecified Quarry	1869	1:10560
W	247m SW	Cuttings	1909	1:10560

This data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m

175

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 165**

ID	Location	Land Use	Year of mapping	Mapping scale
A	On site	Colliery	1948	1:10560
A	On site	Colliery	1898	1:10560
A	On site	Unspecified Disused Mine	1960	1:10560
D	On site	Unspecified Disused Shafts	1991	1:10000



ID	Location	Land Use	Year of mapping	Mapping scale
D	On site	Unspecified Disused Shafts	1991	1:10000
E	31m N	Disused Colliery	1948	1:10560
E	31m N	Unspecified Disused Mine	1960	1:10560
A	61m N	Unspecified Disused Shaft	1970	1:10560
E	78m N	Unspecified Shaft	1960	1:10560
E	93m N	Unspecified Shaft	1948	1:10560
H	99m NE	Unspecified Old Shaft	1960	1:10560
H	99m NE	Old Coal Shaft	1948	1:10560
H	99m NE	Unspecified Old Shaft	1898	1:10560
K	144m SW	Old Coal Shafts	1948	1:10560
K	144m SW	Unspecified Old Shaft	1898	1:10560
K	148m SW	Unspecified Old Shaft	1960	1:10560
L	159m E	Unspecified Old Shaft	1948	1:10560
L	159m E	Unspecified Shaft	1898	1:10560
N	161m NW	Disused Colliery	1898	1:10560
O	166m NW	Colliery	1869	1:10560
E	168m N	Unspecified Old Shaft	1960	1:10560
E	168m N	Unspecified Disused Shaft	1970	1:10560
E	168m N	Old Coal Shaft	1948	1:10560
L	168m E	Unspecified Old Shaft	1960	1:10560
E	174m N	Unspecified Disused Shaft	1991	1:10000
P	182m N	Old Coal Shaft	1948	1:10560
P	182m N	Unspecified Old Shaft	1898	1:10560
P	182m N	Unspecified Old Shaft	1960	1:10560
P	182m N	Unspecified Old Shaft	1970	1:10560
P	183m N	Unspecified Disused Shaft	1987	1:10000
P	183m N	Unspecified Disused Shaft	1981	1:10000
O	231m N	Unspecified Old Shaft	1960	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
O	231m N	Unspecified Old Shaft	1970	1:10560
O	232m N	Old Coal Shaft	1948	1:10560
O	235m N	Unspecified Shaft	1869	1:10560
N	239m NW	Unspecified Old Shafts	1970	1:10560
N	240m NW	Unspecified Old Shafts	1960	1:10560
N	242m NW	Old Coal Shafts	1948	1:10560
N	243m NW	Unspecified Disused Shafts	1987	1:10000
N	243m NW	Unspecified Disused Shafts	1981	1:10000
N	245m NW	Unspecified Old Shafts	1898	1:10560
N	248m NW	Unspecified Disused Shafts	1991	1:10000
N	251m NW	Unspecified Shafts	1869	1:10560
N	263m NW	Unspecified Old Shafts	1960	1:10560
N	263m NW	Unspecified Old Shafts	1970	1:10560
N	264m NW	Old Coal Shafts	1948	1:10560
N	269m NW	Unspecified Disused Shafts	1987	1:10000
N	269m NW	Unspecified Disused Shafts	1981	1:10000
N	270m NW	Unspecified Old Shafts	1898	1:10560
N	274m NW	Unspecified Disused Shafts	1991	1:10000
N	274m NW	Unspecified Shafts	1869	1:10560
AH	312m SE	Old Coal Shafts	1948	1:10560
AH	312m SE	Unspecified Old Shafts	1898	1:10560
AG	314m SE	Unspecified Shaft	1898	1:10560
AH	315m SE	Unspecified Old Shafts	1960	1:10560
AH	326m SE	Old Coal Shafts	1948	1:10560
AH	326m SE	Unspecified Old Shafts	1898	1:10560
AH	328m SE	Unspecified Old Shafts	1960	1:10560
AJ	332m NW	Unspecified Levels	1898	1:10560
AJ	333m NW	Unspecified Levels	1898	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
AN	336m NW	Unspecified Old Shaft	1898	1:10560
31	381m E	Coal Pit	1898	1:10560
AW	410m NW	Unspecified Old Shaft	1898	1:10560
AS	460m S	Old Colliery	1898	1:10560
AS	498m S	Unspecified Disused Shafts	1991	1:10000
AS	498m S	Unspecified Disused Shafts	1987	1:10000
AS	498m S	Unspecified Disused Shafts	1970	1:10560
AS	501m S	Old Coal Shafts	1948	1:10560
BH	502m SE	Old Coal Shafts	1948	1:10560
AS	503m S	Unspecified Disused Shafts	1981	1:10000
AS	504m S	Unspecified Old Shafts	1960	1:10560
BH	506m SE	Unspecified Old Shaft	1898	1:10560
BH	507m SE	Unspecified Old Shafts	1960	1:10560
BH	521m SE	Old Coal Shafts	1948	1:10560
BH	525m SE	Unspecified Old Shafts	1960	1:10560
AS	544m S	Unspecified Shaft	1869	1:10560
AS	546m S	Unspecified Shaft	1898	1:10560
AS	547m S	Unspecified Disused Shafts	1991	1:10000
AS	547m S	Unspecified Disused Shafts	1987	1:10000
AS	549m S	Unspecified Disused Shafts	1981	1:10000
AS	550m S	Old Coal Shafts	1948	1:10560
AS	550m S	Unspecified Old Shafts	1960	1:10560
BP	553m S	Old Coal Shafts	1948	1:10560
BP	553m S	Unspecified Shaft	1898	1:10560
BP	555m S	Unspecified Disused Shafts	1991	1:10000
BP	555m S	Unspecified Disused Shafts	1987	1:10000
BP	555m S	Unspecified Disused Shafts	1970	1:10560
BP	558m S	Unspecified Disused Shafts	1981	1:10000



ID	Location	Land Use	Year of mapping	Mapping scale
BP	559m S	Unspecified Old Shafts	1960	1:10560
BP	560m S	Unspecified Disused Shafts	1991	1:10000
BP	560m S	Unspecified Disused Shafts	1987	1:10000
BP	560m S	Unspecified Disused Shafts	1970	1:10560
BH	564m SE	Old Coal Shafts	1948	1:10560
BH	564m SE	Unspecified Old Shaft	1898	1:10560
BP	565m S	Unspecified Disused Shafts	1981	1:10000
BH	566m E	Unspecified Disused Shaft	1981	1:10000
BH	566m E	Unspecified Disused Shaft	1970	1:10560
BP	567m S	Old Coal Shafts	1948	1:10560
BP	568m S	Unspecified Old Shafts	1960	1:10560
BR	643m SE	Colliery	1898	1:10560
CD	651m S	Old Coal Shaft	1948	1:10560
CD	651m S	Unspecified Old Shaft	1898	1:10560
CD	654m S	Unspecified Old Shaft	1960	1:10560
CE	663m S	Unspecified Disused Shaft	1991	1:10000
CE	664m S	Unspecified Disused Shaft	1970	1:10560
CE	679m S	Unspecified Disused Shaft	1987	1:10000
CE	682m S	Unspecified Disused Shaft	1981	1:10000
CK	696m SW	Colliery	1869	1:10560
BR	706m SE	Colliery	1869	1:10560
BR	707m SE	Unspecified Disused Mine	1960	1:10560
CO	719m SW	Collieries	1898	1:10560
CO	727m SW	Collieries	1948	1:10560
CO	733m SW	Unspecified Mines	1960	1:10560
CL	767m S	Old Coal Shafts	1948	1:10560
CL	769m S	Unspecified Old Shafts	1960	1:10560
BR	774m SE	Unspecified Shaft	1869	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
CL	777m S	Old Coal Shafts	1948	1:10560
CL	779m S	Unspecified Old Shafts	1960	1:10560
CL	779m S	Old Coal Shafts	1948	1:10560
CK	779m SW	Unspecified Disused Shaft	1991	1:10000
CK	784m SW	Unspecified Disused Shaft	1970	1:10560
CK	785m SW	Unspecified Disused Shaft	1987	1:10000
CK	785m SW	Unspecified Disused Shaft	1981	1:10000
CL	790m S	Old Coal Shafts	1948	1:10560
CL	792m S	Unspecified Old Shafts	1960	1:10560
CK	801m SW	Unspecified Shaft	1869	1:10560
CK	825m SW	Unspecified Disused Shaft	1970	1:10560
CZ	830m SE	Unspecified Old Shafts	1960	1:10560
CZ	831m SE	Old Coal Shafts	1948	1:10560
CZ	831m SE	Unspecified Old Shaft	1898	1:10560
DK	845m SE	Unspecified Disused Shafts	1991	1:10000
DK	845m SE	Unspecified Disused Shafts	1987	1:10000
DK	845m SE	Unspecified Disused Shafts	1981	1:10000
DK	847m SE	Unspecified Old Shafts	1898	1:10560
CT	850m SE	Unspecified Old Mine	1960	1:10560
DK	856m SE	Unspecified Old Shafts	1898	1:10560
DK	858m SE	Unspecified Disused Shafts	1991	1:10000
DK	858m SE	Unspecified Disused Shafts	1987	1:10000
DK	858m SE	Unspecified Disused Shafts	1981	1:10000
DO	871m SE	Unspecified Shaft	1869	1:10560
DO	877m SE	Old Coal Shafts	1948	1:10560
DO	877m SE	Unspecified Shafts	1898	1:10560
DO	881m SE	Unspecified Old Shafts	1960	1:10560
CT	905m SE	Unspecified Shaft	1869	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
DS	913m NE	Unspecified Old Shafts	1898	1:10560
CT	913m SE	Old Coal Shaft	1948	1:10560
CT	913m SE	Unspecified Shafts	1898	1:10560
DW	933m NE	Colliery	1869	1:10560
DS	938m NE	Unspecified Old Shafts	1898	1:10560
DW	939m NE	Old Colliery	1898	1:10560
DW	939m NE	Old Colliery	1948	1:10560
DS	953m NE	Unspecified Old Shafts	1898	1:10560
EB	956m N	Unspecified Disused Shafts	1991	1:10000
EB	956m N	Unspecified Disused Shafts	1987	1:10000
EB	956m N	Unspecified Disused Shafts	1981	1:10000
EB	956m N	Unspecified Disused Shafts	1970	1:10560
DW	964m N	Unspecified Shaft	1869	1:10560
EB	964m N	Old Coal Shafts	1948	1:10560
EB	964m N	Unspecified Old Shafts	1898	1:10560
DW	965m N	Unspecified Disused Shafts	1970	1:10560
DW	965m N	Unspecified Old Mine	1960	1:10560
DW	966m N	Unspecified Disused Shafts	1987	1:10000
DW	966m N	Unspecified Disused Shafts	1981	1:10000
EB	968m N	Unspecified Old Shafts	1960	1:10560
EB	970m N	Unspecified Disused Shafts	1991	1:10000
EB	970m N	Unspecified Disused Shafts	1987	1:10000
EB	970m N	Unspecified Disused Shafts	1981	1:10000
EB	970m N	Unspecified Disused Shafts	1970	1:10560
EB	971m N	Unspecified Old Shafts	1898	1:10560
EB	972m N	Old Coal Shafts	1948	1:10560
DW	975m N	Unspecified Disused Shafts	1991	1:10000
DC	978m SE	Unspecified Shaft	1869	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
DX	985m S	Unspecified Old Shaft	1898	1:10560
EI	995m N	Unspecified Old Shafts	1898	1:10560
DC	996m SE	Unspecified Shafts	1898	1:10560

This data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m

4

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.

Features are displayed on the Mining, ground workings and natural cavities map on **page 165**

ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
19	177m SW	New Works	Not available	Not available	Not available	Not available
AA	242m SW	New Works	Not available	Not available	Not available	Not available
AL	327m SW	Catherall Brickworks	Not available	Not available	Not available	Not available
AQ	339m SW	Catherall Brickworks	Not available	Not available	Not available	Not available

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

15

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 165**



ID	Location	Name	Commodity	Class	Likelihood
4	On site	Not available	Iron Ore (Bedded)	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
5	On site	Not available	Iron Ore (Bedded)	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
6	On site	Not available	Iron Ore (Bedded)	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
7	On site	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
8	On site	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
18	168m 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
27	350m SW	Not available	Iron Ore (Bedded)	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
32	471m NE	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
38	533m 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
40	601m 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



ID	Location	Name	Commodity	Class	Likelihood
43	659m E	Not available	Iron Ore (Bedded)	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
CI	686m 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
52	833m W	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
DR	902m S	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
58	905m E	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

1

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



Location	Details
On site	In addition to being located inside an area where The Coal Authority have information on coal mining activities, Johnson Poole & Bloomer (JPB) have information such as mining plans and maps held within their archive of mining activities that have occurred within 1km of this property which may supplement this information. Please note, the plans held by JPB may also relate to non-mining records. Further details and a quote for services (if appropriate) can be obtained by emailing this report to enquiries.gs@jpb.co.uk.

This data is sourced from Johnson Poole and Bloomer.

18.9 Coal mining

Records on site	1
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Areas which could be affected by past, current or future coal mining.

Location	Details
On site	The site is located within a coal mining area as defined by the Coal Authority. A Consultants Coal Mining Report is recommended to further assess coal mining issues at the site. This can be ordered directly through Groundsure or your preferred search provider.

This data is sourced from the Coal Authority.

18.10 Brine areas

Records on site	0
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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
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Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.



18.12 Tin mining

Records on site

0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Mining Searches UK.

18.13 Clay mining

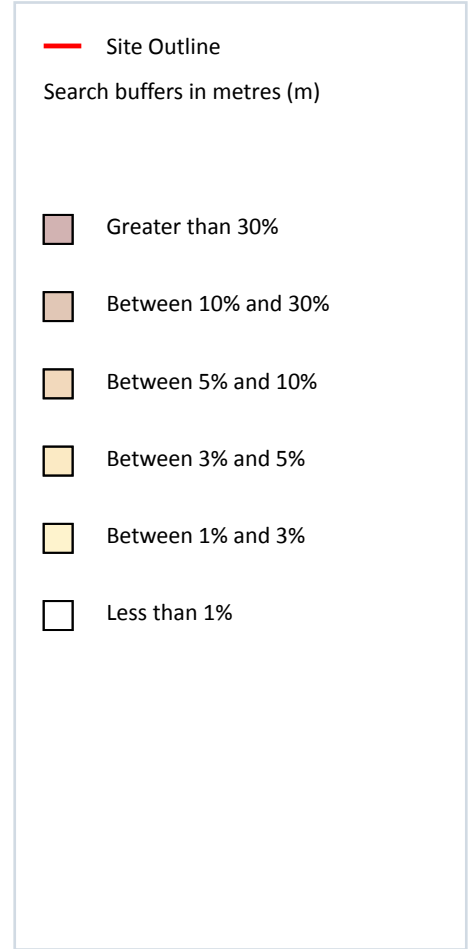
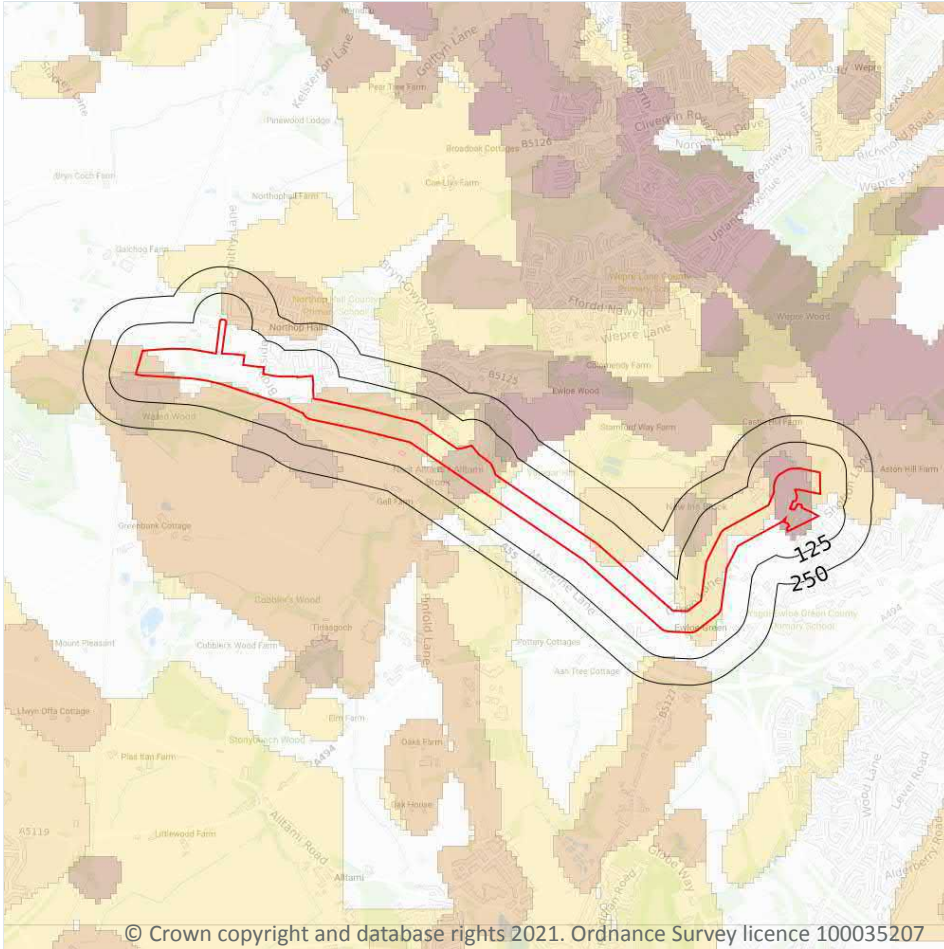
Records on site

0

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



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19.1 Radon

Records on site

6

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 190**

Location	Estimated properties affected	Radon Protection Measures required
On site	Less than 1%	None**
On site	Between 1% and 3%	None



Location	Estimated properties affected	Radon Protection Measures required
On site	Between 10% and 30%	Full
On site	Between 3% and 5%	Basic
On site	Greater than 30%	Full
On site	Between 5% and 10%	Basic

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

86

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	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	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	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	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	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	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 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
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 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
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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 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 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
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 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
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



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 - 200 mg/kg	60 - 120 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
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 - 200 mg/kg	60 - 120 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
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 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 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	90 - 120 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
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 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 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
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 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
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



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 - 200 mg/kg	60 - 120 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
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 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	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 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
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 - 200 mg/kg	60 - 120 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
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



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 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
4m W	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
5m E	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
12m SW	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
13m NW	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
13m SE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
13m W	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
15m W	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
16m E	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
16m E	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
17m W	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
17m E	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
33m SE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
37m SW	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
37m W	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
38m W	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
39m SW	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
39m SW	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
45m W	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 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

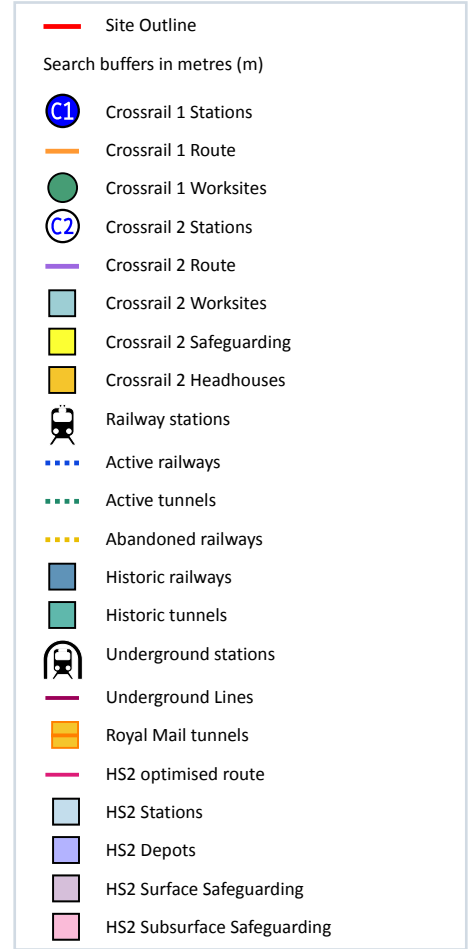
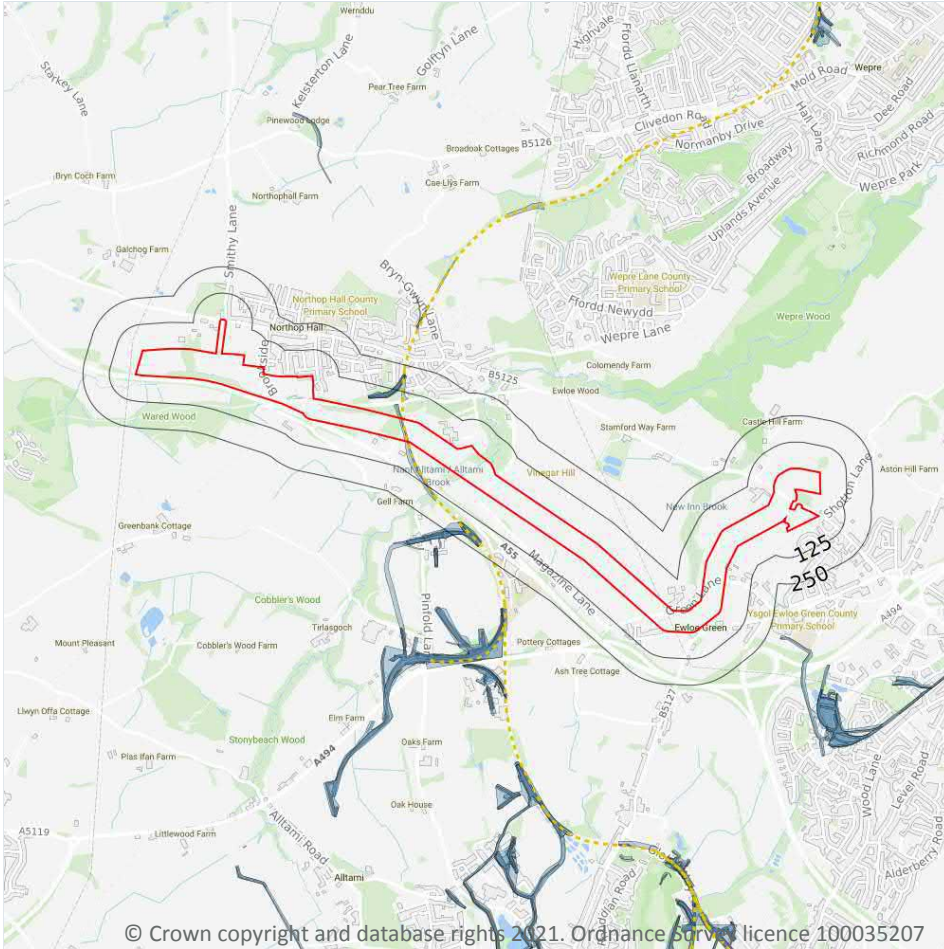
Records within 50m

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

20

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.

Features are displayed on the Railway infrastructure and projects map on **page 198**

Location	Land Use	Year of mapping	Mapping scale
On site	Railway Sidings	1869	10560
On site	Railway Sidings	1870	2500
54m N	Railway Sidings	1948	10560
56m N	Railway Sidings	1938	10560
56m N	Railway Sidings	1960	10560
57m N	Railway Sidings	1912	2500
57m N	Railway Sidings	1899	2500
58m N	Railway Sidings	1910	10560
60m N	Railway Sidings	1898	10560
175m SW	Railway Sidings	1869	10560
176m SW	Mineral Railway Sidings	1898	10560
178m SW	Railway Sidings	1938	10560
181m SW	Railway Sidings	1948	10560
181m SW	Railway Sidings	1963	2500
183m SW	Railway Sidings	1870	2500
185m SW	Railway Sidings	1909	10560
186m SW	Mineral Railway Sidings	1899	2500



Location	Land Use	Year of mapping	Mapping scale
187m SW	Railway Sidings	1912	2500
190m SW	Railway Sidings	1869	10560
194m SW	Railway Sidings	1960	10560

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

3

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

Features are displayed on the Railway infrastructure and projects map on **page 198**

Location	Description
On site	Abandoned
224m SW	Razed
230m N	Razed

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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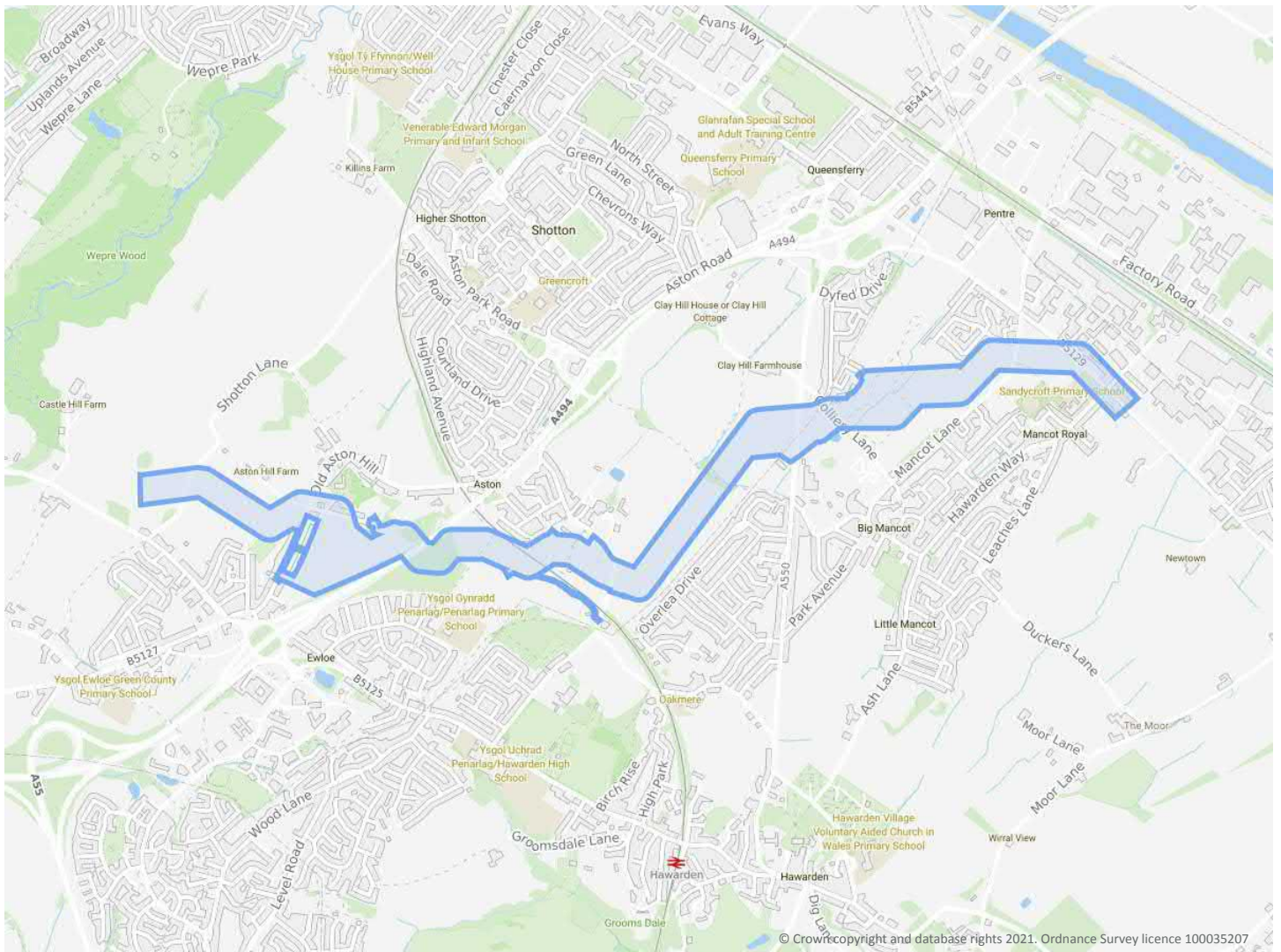
DCO Pipeline, Southern Route

Order Details

Date: 31/08/2021
Your ref: DCO Pipeline, Southern Route
Our Ref: GSIP-2021-10877-7381_C
Client: WSP UK LIMITED

Site Details

Location: 330716 367029
Area: 46.93 ha
Authority: [Sir y Fflint - Flintshire County Council](#)



Summary of findings

p. 2

Aerial image

p. 8

OS MasterMap site plan

N/A: >10ha

groundsure.com/insightuserguide

Contact us with any questions at:

08444 159 000

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
13	1.1	<u>Historical industrial land uses</u>	58	61	132	129	-
27	1.2	<u>Historical tanks</u>	3	3	26	28	-
30	1.3	<u>Historical energy features</u>	1	0	17	25	-
32	1.4	Historical petrol stations	0	0	0	0	-
32	1.5	<u>Historical garages</u>	0	0	5	1	-
32	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
33	2.1	<u>Historical industrial land uses</u>	77	79	165	146	-
50	2.2	<u>Historical tanks</u>	4	6	36	44	-
54	2.3	<u>Historical energy features</u>	1	0	39	46	-
57	2.4	Historical petrol stations	0	0	0	0	-
57	2.5	<u>Historical garages</u>	0	0	10	5	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
59	3.1	<u>Active or recent landfill</u>	0	0	2	0	-
60	3.2	Historical landfill (BGS records)	0	0	0	0	-
60	3.3	<u>Historical landfill (LA/mapping records)</u>	0	1	0	0	-
60	3.4	<u>Historical landfill (EA/NRW records)</u>	1	0	3	0	-
61	3.5	<u>Historical waste sites</u>	0	0	0	5	-
62	3.6	<u>Licensed waste sites</u>	0	0	16	37	-
76	3.7	<u>Waste exemptions</u>	0	0	0	96	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
86	4.1	<u>Recent industrial land uses</u>	3	6	70	-	-
91	4.2	<u>Current or recent petrol stations</u>	0	0	1	1	-
92	4.3	Electricity cables	0	0	0	0	-
92	4.4	Gas pipelines	0	0	0	0	-
92	4.5	Sites determined as Contaminated Land	0	0	0	0	-



92	4.6	<u>Control of Major Accident Hazards (COMAH)</u>	0	1	2	1	-
93	4.7	Regulated explosive sites	0	0	0	0	-
93	4.8	<u>Hazardous substance storage/usage</u>	0	0	1	0	-
93	4.9	<u>Historical licensed industrial activities (IPC)</u>	0	0	8	0	-
94	4.10	<u>Licensed industrial activities (Part A(1))</u>	0	0	36	1	-
102	4.11	<u>Licensed pollutant release (Part A(2)/B)</u>	0	0	0	6	-
102	4.12	Radioactive Substance Authorisations	0	0	0	0	-
103	4.13	<u>Licensed Discharges to controlled waters</u>	3	2	7	9	-
106	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
106	4.15	<u>Pollutant release to public sewer</u>	0	0	0	1	-
106	4.16	List 1 Dangerous Substances	0	0	0	0	-
106	4.17	<u>List 2 Dangerous Substances</u>	0	0	1	0	-
107	4.18	<u>Pollution Incidents (EA/NRW)</u>	5	16	58	59	-
121	4.19	Pollution inventory substances	0	0	0	0	-
121	4.20	Pollution inventory waste transfers	0	0	0	0	-
121	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
122	5.1	<u>Superficial aquifer</u>	Identified (within 500m)				
125	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
127	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
132	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
132	5.5	Groundwater vulnerability- local information	None (within 0m)				
133	5.6	<u>Groundwater abstractions</u>	0	0	1	3	6
136	5.7	<u>Surface water abstractions</u>	0	0	0	0	12
138	5.8	<u>Potable abstractions</u>	0	0	0	2	0
139	5.9	Source Protection Zones	0	0	0	0	-
139	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
140	6.1	<u>Water Network (OS MasterMap)</u>	15	11	33	-	-



145	6.2	Surface water features	1	8	16	-	-
145	6.3	WFD Surface water body catchments	3	-	-	-	-
146	6.4	WFD Surface water bodies	0	0	0	-	-
146	6.5	WFD Groundwater bodies	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
147	7.1	Risk of Flooding from Rivers and Sea (RoFRaS)	Medium (within 50m)				
148	7.2	Historical Flood Events	1	1	0	-	-
148	7.3	Flood Defences	0	0	0	-	-
148	7.4	Areas Benefiting from Flood Defences	2	0	1	-	-
149	7.5	Flood Storage Areas	0	0	0	-	-
150	7.6	Flood Zone 2	Identified (within 50m)				
151	7.7	Flood Zone 3	Identified (within 50m)				
Page	Section	Surface water flooding					
152	8.1	Surface water flooding	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	Groundwater flooding					
154	9.1	Groundwater flooding	High (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
155	10.1	Sites of Special Scientific Interest (SSSI)	0	0	1	1	12
156	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	1
157	10.3	Special Areas of Conservation (SAC)	0	0	1	1	12
162	10.4	Special Protection Areas (SPA)	0	0	0	0	1
163	10.5	National Nature Reserves (NNR)	0	0	0	0	0
163	10.6	Local Nature Reserves (LNR)	0	0	0	0	2
164	10.7	Designated Ancient Woodland	0	0	0	6	67
167	10.8	Biosphere Reserves	0	0	0	0	0
167	10.9	Forest Parks	0	0	0	0	0
167	10.10	Marine Conservation Zones	0	0	0	0	0
167	10.11	Green Belt	0	0	0	0	0
167	10.12	Proposed Ramsar sites	0	0	0	0	0



168	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
168	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
168	10.15	Nitrate Sensitive Areas	0	0	0	0	0
168	10.16	<u>Nitrate Vulnerable Zones</u>	0	0	0	0	4
170	10.17	<u>SSSI Impact Risk Zones</u>	1	-	-	-	-
171	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
172	11.1	World Heritage Sites	0	0	0	-	-
173	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
173	11.3	National Parks	0	0	0	-	-
173	11.4	<u>Listed Buildings</u>	0	1	2	-	-
174	11.5	Conservation Areas	0	0	0	-	-
174	11.6	Scheduled Ancient Monuments	0	0	0	-	-
174	11.7	Registered Parks and Gardens	0	0	0	-	-

Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
175	12.1	<u>Agricultural Land Classification</u>	Grade 2 (within 250m)				
176	12.2	Open Access Land	0	0	0	-	-
176	12.3	Tree Felling Licences	0	0	0	-	-
177	12.4	Environmental Stewardship Schemes	0	0	0	-	-
177	12.5	Countryside Stewardship Schemes	0	0	0	-	-

Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
178	13.1	Priority Habitat Inventory	0	0	0	-	-
178	13.2	Habitat Networks	0	0	0	-	-
178	13.3	Open Mosaic Habitat	0	0	0	-	-
178	13.4	Limestone Pavement Orders	0	0	0	-	-

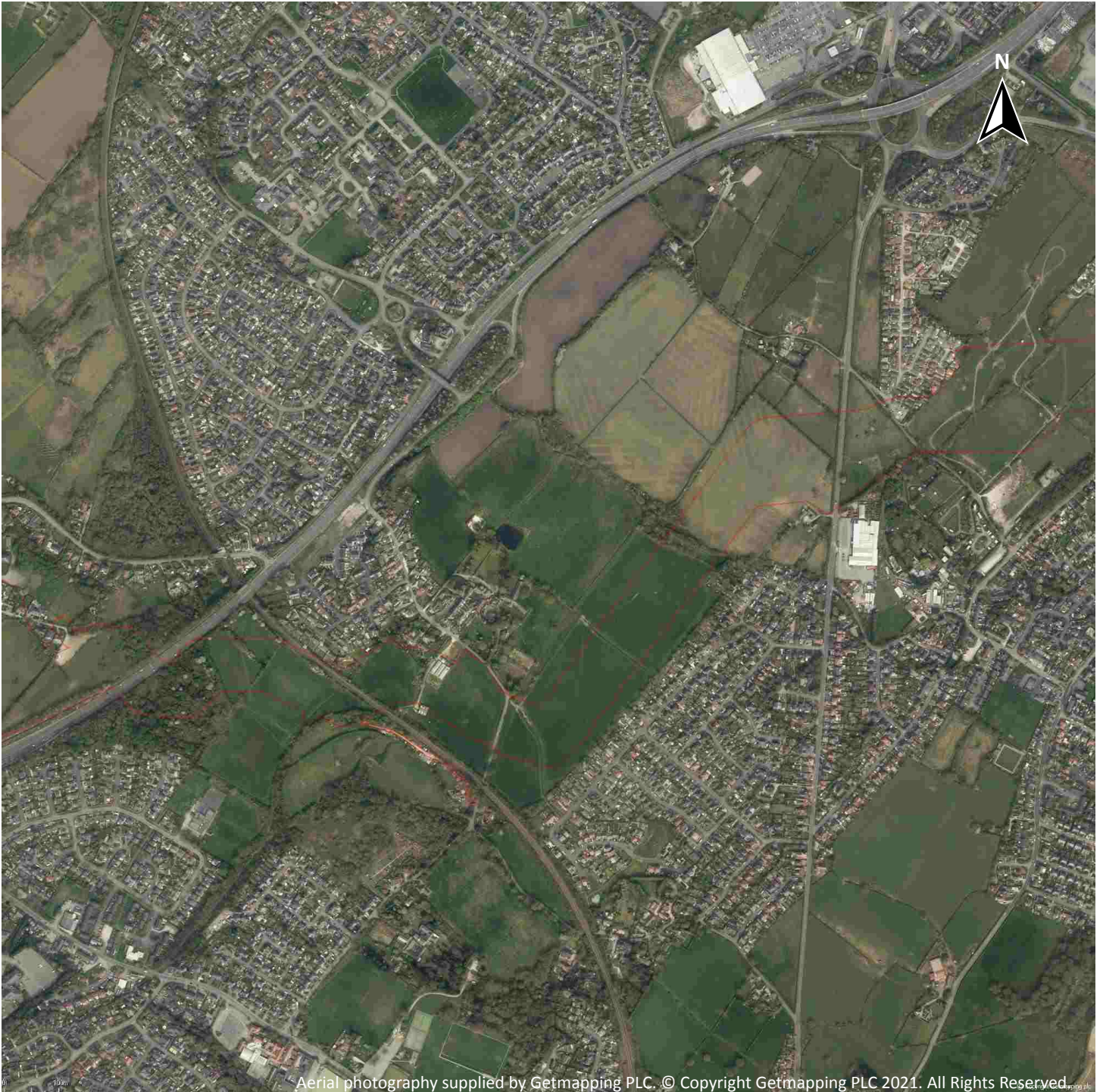
Page	Section	Geology 1:10,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
179	14.1	<u>10k Availability</u>	Identified (within 500m)				
180	14.2	Artificial and made ground (10k)	0	0	0	0	-
181	14.3	Superficial geology (10k)	0	0	0	0	-

181	14.4	Landslip (10k)	0	0	0	0	-
182	14.5	Bedrock geology (10k)	0	0	0	0	-
182	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
<u>183</u>	<u>15.1</u>	<u>50k Availability</u>	Identified (within 500m)				
<u>184</u>	<u>15.2</u>	<u>Artificial and made ground (50k)</u>	5	2	5	4	-
<u>185</u>	<u>15.3</u>	<u>Artificial ground permeability (50k)</u>	5	2	-	-	-
<u>186</u>	<u>15.4</u>	<u>Superficial geology (50k)</u>	6	1	2	6	-
<u>187</u>	<u>15.5</u>	<u>Superficial permeability (50k)</u>	Identified (within 50m)				
<u>188</u>	<u>15.6</u>	<u>Landslip (50k)</u>	0	0	0	2	-
188	15.7	Landslip permeability (50k)	None (within 50m)				
<u>189</u>	<u>15.8</u>	<u>Bedrock geology (50k)</u>	18	1	9	10	-
<u>192</u>	<u>15.9</u>	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
<u>192</u>	<u>15.10</u>	<u>Bedrock faults and other linear features (50k)</u>	29	7	21	19	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
<u>196</u>	<u>16.1</u>	<u>BGS Boreholes</u>	38	31	122	-	-
Page	Section	Natural ground subsidence					
<u>205</u>	<u>17.1</u>	<u>Shrink swell clays</u>	Low (within 50m)				
<u>207</u>	<u>17.2</u>	<u>Running sands</u>	Moderate (within 50m)				
<u>209</u>	<u>17.3</u>	<u>Compressible deposits</u>	Moderate (within 50m)				
<u>211</u>	<u>17.4</u>	<u>Collapsible deposits</u>	Very low (within 50m)				
<u>212</u>	<u>17.5</u>	<u>Landslides</u>	Low (within 50m)				
<u>214</u>	<u>17.6</u>	<u>Ground dissolution of soluble rocks</u>	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
<u>216</u>	<u>18.1</u>	<u>Natural cavities</u>	0	1	0	0	-
<u>217</u>	<u>18.2</u>	<u>BritPits</u>	2	1	11	6	-
<u>221</u>	<u>18.3</u>	<u>Surface ground workings</u>	66	55	109	-	-
<u>230</u>	<u>18.4</u>	<u>Underground workings</u>	6	4	27	16	56
234	18.5	Historical Mineral Planning Areas	0	0	0	0	-



234	18.6	<u>Non-coal mining</u>	6	0	1	3	5
236	18.7	Mining cavities	0	0	0	0	0
236	18.8	<u>JPB mining areas</u>	Identified (within 0m)				
236	18.9	<u>Coal mining</u>	Identified (within 0m)				
237	18.10	Brine areas	None (within 0m)				
237	18.11	Gypsum areas	None (within 0m)				
237	18.12	Tin mining	None (within 0m)				
237	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
238	19.1	<u>Radon</u>	Greater than 30% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
240	20.1	<u>BGS Estimated Background Soil Chemistry</u>	63	17	-	-	-
244	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
245	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
246	21.1	Underground railways (London)	0	0	0	-	-
246	21.2	Underground railways (Non-London)	0	0	0	-	-
247	21.3	Railway tunnels	0	0	0	-	-
247	21.4	<u>Historical railway and tunnel features</u>	8	10	7	-	-
248	21.5	Royal Mail tunnels	0	0	0	-	-
248	21.6	Historical railways	0	0	0	-	-
248	21.7	<u>Railways</u>	7	6	5	-	-
249	21.8	Crossrail 1	0	0	0	0	-
250	21.9	Crossrail 2	0	0	0	0	-
250	21.10	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 10/04/2020

Site Area: 46.93ha

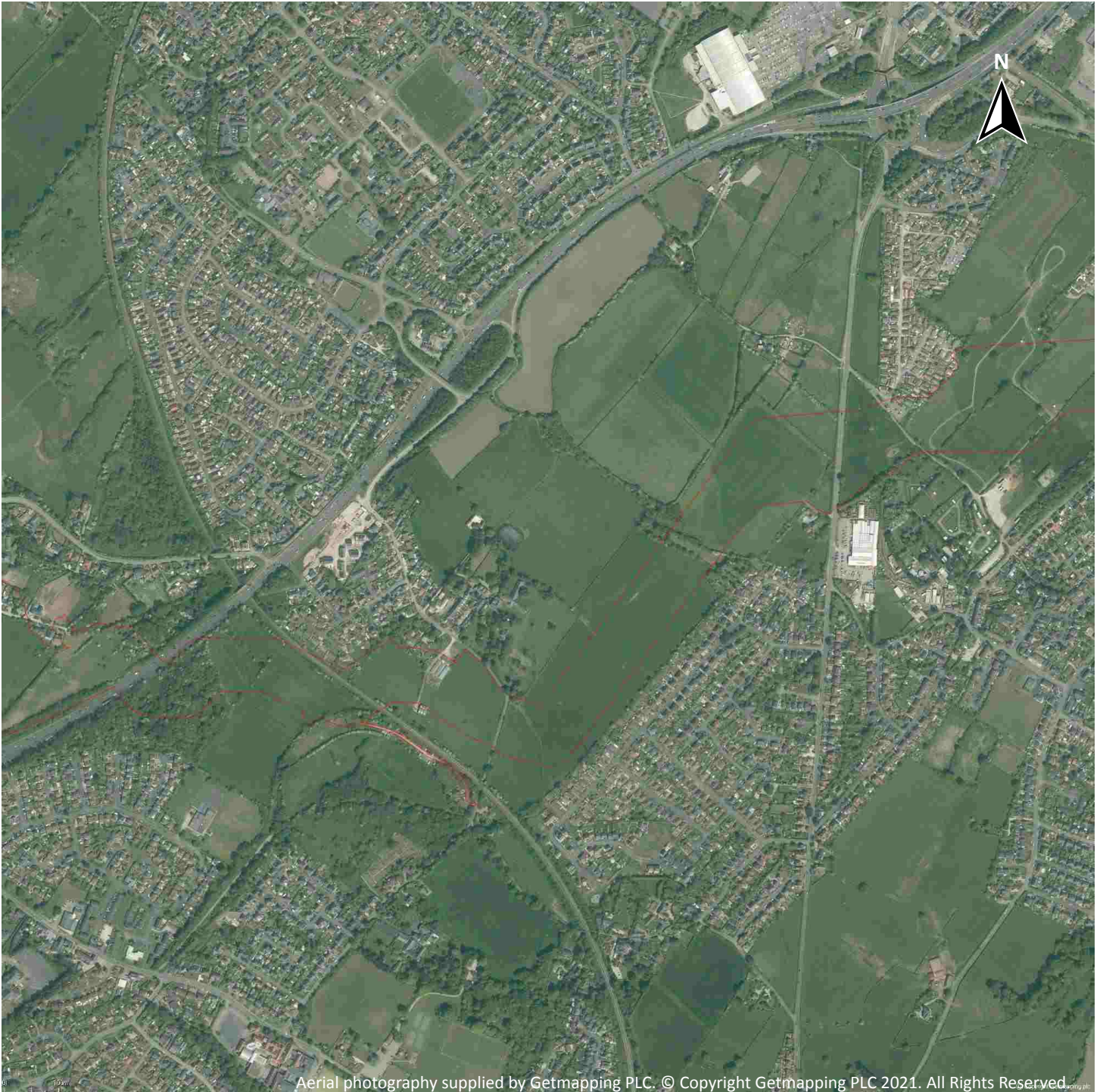


Contact us with any questions at:

08444 159 000

Date: 31 August 2021

Recent site history - 2017 aerial photograph



Capture Date: 07/05/2017

Site Area: 46.93ha



Contact us with any questions at:


08444 159 000

Date: 31 August 2021

Recent site history - 2009 aerial photograph



Capture Date: 20/04/2009

Site Area: 46.93ha



Contact us with any questions at:

08444 159 000

Date: 31 August 2021

Recent site history - 2001 aerial photograph



Capture Date: 28/07/2001

Site Area: 46.93ha



Contact us with any questions at:

08444 159 000

Date: 31 August 2021

Recent site history - 2000 aerial photograph



Capture Date: 04/09/2000

Site Area: 46.93ha

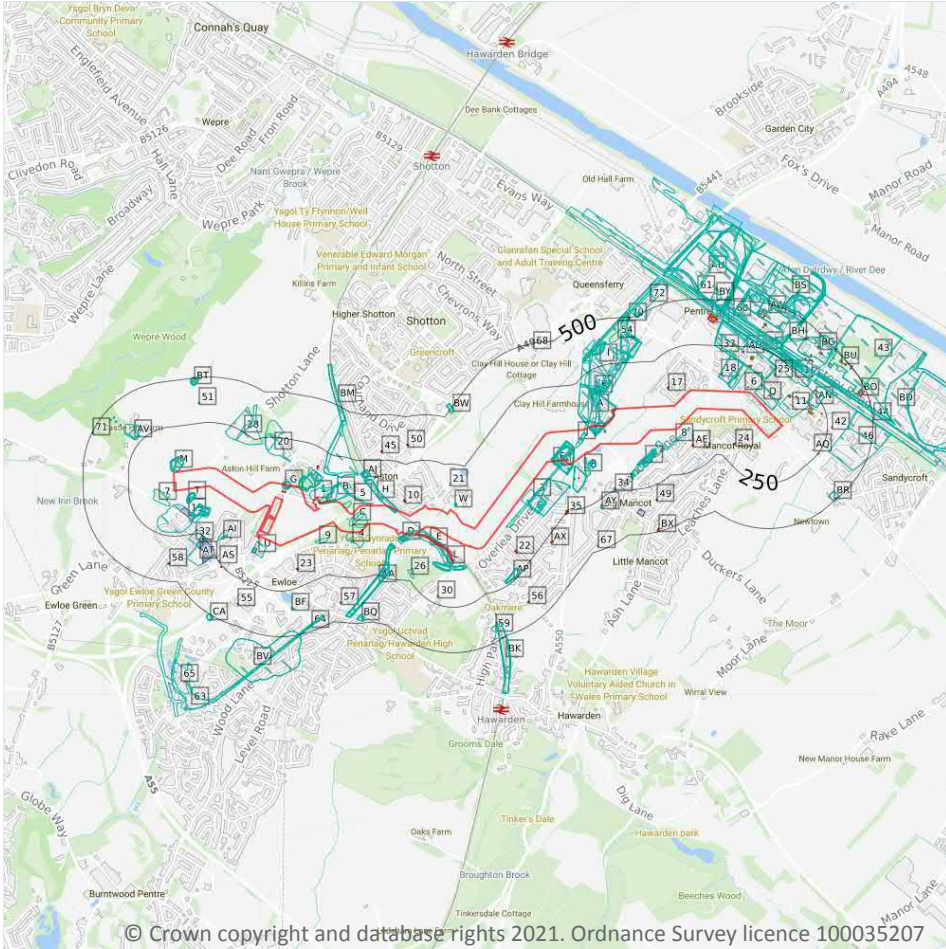


Contact us with any questions at:


08444 159 000

Date: 31 August 2021

1 Past land use



Site Outline

Search buffers in metres (m)

- Historical industrial land uses
- Historical tanks
- Historical energy features
- Historical garages

1.1 Historical industrial land uses

Records within 500m **380**

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 13**

ID	Location	Land use	Dates present	Group ID
1	On site	Unspecified Pit	1969	839191



ID	Location	Land use	Dates present	Group ID
2	On site	Unspecified Pit	1969	839196
3	On site	Railway Sidings	1938	794526
A	On site	Old Colliery	1898	903296
A	On site	Unspecified Shafts	1898	809166
A	On site	Unspecified Shafts	1869	809167
A	On site	Unspecified Old Mine	1960	814657
A	On site	Clay Pit	1869	827658
A	On site	Colliery	1869	855204
A	On site	Unspecified Heap	1938 - 1948	855571
A	On site	Unspecified Heap	1898	885446
A	On site	Unspecified Ground Workings	1989	885533
A	On site	Old Colliery	1948	917222
A	On site	Unspecified Ground Workings	1969 - 1976	939398
A	On site	Old Colliery	1938	939995
A	On site	Old Colliery	1909	959716
A	On site	Unspecified Heap	1909	965764
B	On site	Sand Pit	1869	797382
B	On site	Unspecified Ground Workings	1910	799523
B	On site	Sand Pits	1938 - 1948	864320
B	On site	Sand Pits	1960	908356
C	On site	Unspecified Heap	1989	803630
C	On site	Unspecified Pit	1969	839197
D	On site	Unspecified Pit	1969 - 1976	964709
D	On site	Unspecified Pit	1989	883227
E	On site	Railway Building	1938	819549
E	On site	Railway Sidings	1898	867409
E	On site	Railway Sidings	1909 - 1948	914346
E	On site	Unspecified Ground Workings	1969 - 1976	971149



ID	Location	Land use	Dates present	Group ID
F	On site	Unspecified Quarry	1869	816569
F	On site	Unspecified Works	1960	830099
F	On site	Unspecified Pit	1898	879502
F	On site	Unspecified Ground Workings	1989	884238
F	On site	Unspecified Ground Workings	1909	885637
F	On site	Unspecified Pits	1960	903014
F	On site	Brick Works	1898 - 1909	931069
F	On site	Unspecified Pit	1948	931811
F	On site	Brick Works	1869	936745
F	On site	Unspecified Pit	1898	937583
F	On site	Unspecified Ground Workings	1969 - 1976	951222
F	On site	Brick Works	1948	959283
F	On site	Unspecified Tank	1898	971312
F	On site	Unspecified Pits	1938	973798
F	On site	Unspecified Tank	1909 - 1938	984547
F	On site	Brick Works	1938	988384
G	On site	Unspecified Tank	1960	824043
G	On site	Unspecified Heap	1970	942244
G	On site	Unspecified Heap	1981 - 1991	951952
H	On site	Unspecified Pit	1938	885652
H	On site	Cuttings	1948 - 1960	934681
H	On site	Cuttings	1910	944694
I	On site	Railway Sidings	1938	907494
J	On site	Cuttings	1960	926933
J	On site	Cuttings	1909 - 1938	934933
K	On site	Railway Sidings	1869	964495
L	On site	Cuttings	1938 - 1948	980501
L	On site	Cuttings	1909	981339



ID	Location	Land use	Dates present	Group ID
L	On site	Railway Sidings	1948	991001
4	1m S	Refuse Heap	1969	828563
M	2m N	Unspecified Heap	1869	892215
N	3m NE	Sand Pits	1960	920552
E	4m SW	Railway Building	1898	819550
M	4m N	Refuse Heap	1948	828558
5	5m N	Railway Sidings	1869	794522
N	6m NE	Sand Pits	1948	882720
D	7m S	Cuttings	1909	962360
D	7m S	Cuttings	1948	970074
M	9m NW	Unspecified Heap	1960	934185
O	10m N	Disused Wire Works	1869	832059
P	11m SE	Old Colliery	1869	980727
M	11m NW	Unspecified Heap	1938	937790
N	12m NE	Unspecified Pit	1969 - 1976	862980
N	12m NE	Unspecified Pit	1989	886227
M	14m NW	Unspecified Ground Workings	1910	799525
Q	14m NE	Unspecified Depot	1976	930588
D	14m S	Cuttings	1938	941386
D	15m S	Unspecified Pit	1960	972186
R	16m SE	Refuse Heaps	1989	808250
Q	17m NE	Unspecified Depot	1989	875842
S	18m SE	Nursery	1969	869809
N	19m NE	Unspecified Ground Workings	1938	875291
N	20m NE	Sand Pits	1898 - 1910	887901
O	22m N	Corn Mill	1898	904360
S	22m SE	Nursery	1976	872354
S	22m SE	Nursery	1989	965270



ID	Location	Land use	Dates present	Group ID
T	23m S	Unspecified Heap	1981 - 1987	921811
T	23m S	Unspecified Heap	1948	855660
T	23m S	Unspecified Heap	1869 - 1898	938035
U	23m S	Garage	1970	934977
F	23m SW	Unspecified Tank	1898	824033
T	23m S	Unspecified Heap	1910	968519
L	26m S	Cuttings	1938	930465
V	27m S	Railway Sidings	1948	794527
V	27m S	Cuttings	1948 - 1960	919213
L	27m SW	Cuttings	1898 - 1909	867451
L	27m SW	Cuttings	1960	871999
L	27m SW	Cuttings	1969 - 1989	887763
T	28m S	Unspecified Heap	1938	952847
V	29m S	Cuttings	1909	886018
T	29m S	Unspecified Heap	1960 - 1970	845985
V	32m SE	Cuttings	1989	851627
V	32m SE	Cuttings	1969 - 1976	906040
L	34m SW	Cuttings	1948	968404
7	35m SW	Unspecified Heap	1869	803592
W	35m NE	Unspecified Tank	1948	848890
W	35m NE	Unspecified Tank	1898	887812
W	35m NE	Unspecified Tank	1960	881709
8	39m SE	Railway Sidings	1869	794484
P	40m SE	Unspecified Shaft	1898	813757
P	40m SE	Unspecified Old Shaft	1948	868758
P	40m SE	Unspecified Old Shaft	1960	868768
X	41m N	Unspecified Depot	1976	870383
X	41m N	Unspecified Depot	1989	892504



ID	Location	Land use	Dates present	Group ID
P	41m SE	Unspecified Old Shaft	1938	911954
P	41m SE	Unspecified Old Shaft	1909	987828
R	42m SE	Refuse Heap	1976	828562
R	50m S	Unspecified Heap	1989	848524
R	50m S	Unspecified Heap	1969 - 1976	852007
R	50m S	Unspecified Heap	1960	981778
P	50m SE	Unspecified Tank	1869	824035
R	51m S	Unspecified Heap	1948	944821
R	51m S	Unspecified Heap	1909	899183
B	52m NE	Sand Pits	1910 - 1938	883401
R	53m SE	Unspecified Heap	1938	983277
Y	53m SE	Old Colliery	1898	855691
Y	53m SE	Old Colliery	1948	931431
9	55m SE	Unspecified Pit	1989	839190
P	58m SE	Old Colliery	1909	905244
Z	59m S	Colliery	1869	798229
11	61m NE	Unspecified Works	1969	830087
AA	62m SW	Cuttings	1938	905298
U	62m S	Garage	1981 - 1987	890399
AA	62m SW	Cuttings	1948	870133
AA	67m SW	Cuttings	1909	912433
12	69m SW	Cuttings	1960	914613
B	71m N	Sand Pits	1898	856518
AB	75m SW	Cuttings	1976	932841
AB	75m SW	Cuttings	1969	948607
AB	75m SW	Cuttings	1989	950389
13	76m N	Cuttings	1960	857454
14	76m S	Old Colliery	1869	808568



ID	Location	Land use	Dates present	Group ID
Z	78m SE	Unspecified Heap	1898	892564
16	82m N	Colliery	1869	990758
K	84m W	Railway Sidings	1898	970124
N	85m NE	Sand Pit	1869	797383
Z	86m SE	Unspecified Ground Workings	1938	897047
Z	86m SE	Unspecified Heap	1948	956585
Z	87m SE	Unspecified Heap	1960	955709
Z	87m SE	Unspecified Heap	1909	989551
P	89m SE	Old Colliery	1938	946848
P	93m SE	Unspecified Heap	1909	981740
Z	95m SE	Unspecified Heap	1869	857554
P	95m SE	Unspecified Heap	1948	922819
P	96m SE	Unspecified Heap	1938	852566
AC	97m S	Unspecified Heap	1869 - 1898	909143
AC	98m S	Unspecified Heap	1970	986529
AC	102m S	Unspecified Ground Workings	1910	910106
P	102m SE	Unspecified Shaft	1898	813756
P	102m SE	Unspecified Old Shaft	1948	849731
AD	102m NE	Unspecified Works	1989	892866
P	104m SE	Unspecified Heap	1869	860462
P	104m SE	Unspecified Old Shaft	1909 - 1938	952142
Z	105m S	Unspecified Old Shaft	1898 - 1960	947172
AC	106m S	Unspecified Heap	1960	920641
AC	106m S	Unspecified Heap	1948	964776
I	106m NW	Colliery	1909	888065
AC	106m S	Unspecified Ground Workings	1938	871383
I	111m N	Colliery	1914	936720
I	111m N	Railway Sidings	1914	969200



ID	Location	Land use	Dates present	Group ID
AD	112m NE	Unspecified Works	1969	985990
AD	114m NE	Unspecified Works	1976	872879
P	115m SE	Unspecified Tank	1869	824034
K	118m N	Unspecified Heap	1869	868439
Z	118m S	Unspecified Shaft	1869	813709
K	120m NW	Unspecified Heap	1948	982234
K	120m NW	Railway Sidings	1909	849375
K	121m NW	Unspecified Heap	1909	967655
K	121m NW	Unspecified Heap	1938	909454
K	122m NW	Unspecified Heap	1960	850887
AC	124m S	Unspecified Old Shaft	1910	954465
K	124m NW	Unspecified Heap	1869	941155
AC	124m S	Garage	1981 - 1987	880213
AC	125m S	Unspecified Shaft	1898	813758
AC	125m S	Unspecified Old Shaft	1948	847737
K	126m N	Unspecified Heap	1914	883710
20	127m N	Unspecified Ground Workings	1970 - 1987	881305
AC	130m S	Unspecified Old Shaft	1938	960245
AC	130m S	Unspecified Old Shaft	1938	962641
AC	130m S	Unspecified Old Shaft	1960	806211
K	132m NW	Unspecified Heap	1960	858412
K	133m NW	Unspecified Heap	1948	938788
AF	133m N	Unspecified Ground Workings	1938	963066
K	133m NW	Unspecified Heap	1909	959138
K	133m NW	Unspecified Heap	1938	945488
K	133m NW	Unspecified Shaft	1898	851185
K	135m NW	Unspecified Heap	1898	947783
21	135m N	Unspecified Tank	1869	824038



ID	Location	Land use	Dates present	Group ID
K	136m NW	Unspecified Heap	1914	883820
AF	137m N	Unspecified Pit	1898	839194
K	141m N	Unspecified Shafts	1869	809165
K	143m NW	Unspecified Shafts	1869	809168
AJ	149m N	Cuttings	1938	882087
AJ	150m N	Cuttings	1948	877180
AJ	152m N	Cuttings	1910	888660
K	152m NW	Unspecified Shaft	1898	866825
AJ	153m N	Unspecified Pit	1898	839195
AI	153m SW	Refuse Heap	1869	828559
AK	155m S	Unspecified Heap	1869	803626
AI	157m W	Unspecified Old Shafts	1960	990252
AJ	157m N	Cuttings	1989	855474
AJ	157m N	Cuttings	1969 - 1976	960655
AI	162m W	Old Coal Shafts	1938 - 1948	866325
AI	162m W	Unspecified Old Shafts	1898	906390
AI	163m W	Old Coal Shafts	1909	859313
AA	163m S	Cuttings	1898	943799
AK	164m S	Unspecified Shaft	1869	813708
K	168m NW	Unspecified Heap	1898	803628
AM	170m S	Cuttings	1989	899920
AM	170m S	Cuttings	1969 - 1976	954595
26	173m SW	Unspecified Pit	1869	839199
AI	177m W	Unspecified Old Shafts	1960	845593
27	179m N	Unspecified Heap	1991	803593
AI	182m W	Old Coal Shafts	1938	850398
AI	183m W	Old Coal Shafts	1909	870708
AI	183m W	Old Coal Shafts	1948	950586



ID	Location	Land use	Dates present	Group ID
AI	183m W	Unspecified Old Shafts	1898	952377
AN	185m NE	Unspecified Warehouse	1989	935972
AN	185m NE	Unspecified Warehouse	1976	984849
28	188m NE	Unspecified Pit	1991	839192
29	197m NE	Unspecified Ground Workings	1970 - 1987	876468
AA	203m SW	Cuttings	1960	933756
31	206m NE	Unspecified Works	1969	830086
AP	209m SE	Unspecified Works	1969	856253
I	210m N	Unspecified Heap	1869	803627
AP	212m SE	Water Works	1976	899998
AP	212m SE	Water Works	1989	969198
AP	213m SE	Unspecified Works	1960	923634
AP	214m SE	Sewage Works	1948	811789
I	217m N	Unspecified Shafts	1898	809170
AA	218m S	Cuttings	1869	879908
32	225m S	Garage	1970	901952
AR	231m N	Sawmill	1948	808343
AR	233m N	Unspecified Mill	1960	810203
I	234m N	Unspecified Shaft	1869	813711
34	236m SE	Unspecified Tank	1948 - 1960	897251
I	240m N	Unspecified Shafts	1898	809169
AA	241m SW	Cuttings	1989	853639
AA	241m SW	Cuttings	1969 - 1976	940013
AT	247m W	Garage	1981 - 1991	920926
36	249m NE	Unspecified Pit	1914	839209
AU	249m NE	Railway Sidings	1914	929950
38	252m NE	Railway Sidings	1898	855202
I	254m N	Unspecified Heap	1869	919098



ID	Location	Land use	Dates present	Group ID
I	260m N	Unspecified Ground Workings	1909	799530
I	261m N	Unspecified Heap	1948	985862
39	263m NE	Railway Building	1938	819511
40	263m NE	Railway Sidings	1938	986490
41	265m NE	Railway Sidings	1869 - 1898	947817
I	270m N	Unspecified Shaft	1869	813710
I	271m N	Unspecified Shafts	1898	809159
I	271m N	Old Clay Pits	1898	814309
AV	273m NW	Brewery	1898 - 1910	906760
AW	274m NE	Railway Sidings	1960	917177
AW	274m NE	Railway Sidings	1969	957506
43	275m NE	Railway Sidings	1948	940526
AW	277m NE	Railway Sidings	1909	977985
AV	278m NW	Brewery	1948	938554
AY	279m SE	Unspecified Heap	1869	803629
I	280m N	Unspecified Shafts	1898	809171
AV	283m NW	Brewery	1869	913041
AY	288m SE	Coal Pit	1869	808457
44	291m NE	Cuttings	1948	795368
I	291m N	Unspecified Heap	1914	850145
46	293m SE	Unspecified Works	1976	856256
AZ	296m NE	Cuttings	1960	795402
BA	296m NE	Unspecified Pit	1914	839205
47	300m NE	Unspecified Works	1960	855852
AZ	303m NE	Unspecified Pit	1914	839208
BB	308m NW	Railway Sidings	1909	948491
I	310m N	Unspecified Heap	1898	883651
I	311m N	Unspecified Shafts	1898	809158



ID	Location	Land use	Dates present	Group ID
AW	313m NE	Unspecified Works	1938 - 1948	981335
BC	314m N	Old Clay Pits	1909	925147
AW	314m NE	Engineering Works	1909 - 1914	974477
AZ	314m NE	Unspecified Pit	1914	839204
BC	314m N	Old Clay Pits	1938	933040
BC	315m N	Old Clay Pits	1948	960781
AZ	318m NE	Unspecified Factory	1960	821305
AW	318m NE	Unspecified Works	1969	939017
BC	320m N	Old Clay Pits	1914	900092
BB	328m N	Railway Sidings	1898	880753
BA	329m NE	Unspecified Pit	1914	839206
BD	332m NE	Railway Sidings	1989	868782
BD	332m NE	Railway Sidings	1960	890455
BD	332m NE	Railway Sidings	1969 - 1976	961262
BF	342m S	Unspecified Disused Shafts	1981 - 1991	968640
BF	346m S	Unspecified Old Shafts	1898	793276
BG	348m NE	Unspecified Depot	1989	920251
BG	348m NE	Unspecified Depot	1969 - 1976	984152
BF	351m S	Unspecified Disused Shafts	1991	872313
BF	351m S	Unspecified Disused Shafts	1981 - 1987	941526
BF	356m S	Unspecified Old Shafts	1898	793271
51	358m N	Old Lime Kiln	1869	821891
52	360m E	Unspecified Works	1989	852609
BC	360m N	Old Clay Pits	1898	969067
54	363m N	Unspecified Heap	1989	955924
BH	367m NE	Unspecified Works	1969	940565
BH	370m NE	Engine Shed	1909 - 1914	903518
BH	370m NE	Engine Shed	1938	929283



ID	Location	Land use	Dates present	Group ID
BH	371m NE	Engine Shed	1948	902516
BE	376m N	Unspecified Tank	1989	909772
BE	378m N	Unspecified Tank	1976	920982
BE	380m N	Unspecified Tank	1969	953119
AW	386m NE	Unspecified Depot	1976	855482
AW	386m NE	Unspecified Depot	1989	928870
AW	387m NE	Unspecified Depot	1969	928157
BJ	391m NW	Unspecified Tank	1869	824044
BK	410m SE	Cuttings	1909 - 1938	867080
BL	410m NE	Unspecified Works	1976	982976
BL	410m NE	Unspecified Works	1989	881656
BK	412m SE	Cuttings	1948	871855
BM	412m NE	Cuttings	1948	864119
BK	413m SE	Cuttings	1960	934723
I	415m N	Pumping Station	1989	822096
BJ	417m NW	Unspecified Tank	1869	824045
59	421m SE	Unspecified Ground Workings	1969	799521
BK	424m SE	Cuttings	1898	950402
BG	424m NE	Cheese Factory	1938 - 1948	939848
BM	430m NE	Cuttings	1960	863101
61	430m N	Railway Sidings	1960	871147
AW	432m N	Unspecified Depot	1989	917877
AW	432m N	Unspecified Depot	1976	973810
AW	432m N	Unspecified Depot	1969	987919
BM	434m NE	Cuttings	1938	851692
BM	435m NE	Cuttings	1910	882818
BG	438m NE	Unspecified Tank	1976	858773
AU	439m N	Unspecified Works	1960	936753



ID	Location	Land use	Dates present	Group ID
BG	439m NE	Unspecified Tank	1969	926462
BG	439m NE	Unspecified Tank	1989	882250
63	440m SE	Railway Sidings	1938	879047
BJ	443m NW	Unspecified Levels	1898	832409
64	443m SE	Railway Sidings	1909	890527
65	443m SE	Railway Sidings	1898	846661
BP	448m N	Unspecified Works	1969	952834
BJ	448m NW	Unspecified Levels	1898	832408
BQ	450m S	Police Station	1976	958647
BQ	450m S	Police Station	1989	969800
BP	451m N	Unspecified Works	1976	947394
66	452m N	Chemical Works	1869 - 1898	867829
BP	452m N	Unspecified Works	1989	988744
BQ	456m S	Police Station	1969	908790
BR	458m SE	Unspecified Works	1976	887739
BR	458m SE	Unspecified Works	1989	850953
BS	460m NE	Unspecified Works	1976	900908
BT	462m N	Unspecified Pit	1981 - 1991	851268
BT	462m N	Sand Pit	1948	963379
BT	462m N	Sand Pit	1960	949712
BT	463m N	Sand Pit	1938	991975
BT	464m N	Sand Pit	1910	972222
BT	466m N	Unspecified Pit	1970	919425
AW	470m N	Unspecified Tank	1948	824032
BV	474m S	Old Colliery	1898	898087
BV	474m S	Old Colliery	1948	955746
68	478m N	Unspecified Tank	1948	824036
BW	480m NW	Smithy	1948	853421



ID	Location	Land use	Dates present	Group ID
BW	483m NW	Smithy	1898	850881
69	484m NE	Unspecified Heap	1914	803604
BS	484m N	Unspecified Works	1989	914964
BY	487m N	Unspecified Heap	1989	951105
BY	487m N	Unspecified Heap	1969 - 1976	982473
BK	492m SE	Cuttings	1989	854241
BK	492m SE	Cuttings	1969 - 1976	969605
71	492m NW	Unspecified Old Shaft	1898	806213
72	494m NW	Unspecified Works	1969	830101
BZ	495m NW	Pumping Station	1909	936556
BZ	496m NW	Pumping Station	1914	945411
BZ	497m NW	Pumping Station	1938	920378
CA	498m SW	Unspecified Pit	1898	944620
CA	498m SW	Unspecified Pit	1948	968543
CA	499m SW	Unspecified Pit	1938	913683

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

60

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 13**

ID	Location	Land use	Dates present	Group ID
A	On site	Unspecified Tank	1870	111769
C	On site	Tank or Trough	1870	121132
F	On site	Unspecified Tank	1899 - 1911	145886



ID	Location	Land use	Dates present	Group ID
F	7m SW	Unspecified Tank	1899	111771
Q	14m NE	Unspecified Tank	1981 - 1993	123356
6	25m N	Unspecified Tank	1981 - 1995	126045
Q	61m NE	Tanks	1981 - 1984	123726
15	80m NE	Unspecified Tank	1981 - 1984	132085
S	81m S	Unspecified Tank	1980	111770
S	85m SE	Unspecified Tank	1980 - 1992	137961
AH	137m N	Tanks	1981	139798
AH	137m N	Tanks	1984	122815
AH	140m N	Tanks	1993	135609
AH	143m N	Tanks	1993	131546
AH	145m N	Unspecified Tank	1981	111764
25	159m NE	Tanks	1984 - 1993	143263
AL	162m NE	Tanks	1992	104611
AL	163m NE	Unspecified Tank	1981	111675
AG	163m NE	Tanks	1962 - 1969	139550
AL	171m NE	Unspecified Tank	1981	111676
AD	177m N	Unspecified Tank	1981 - 1995	129637
AH	177m N	Tanks	1984 - 1993	136717
AH	179m N	Tanks	1981	134728
AL	181m NE	Tanks	1969	104608
AL	183m NE	Tanks	1969	104609
AD	195m N	Unspecified Tank	1981	142759
AD	195m N	Unspecified Tank	1995	135792
30	203m SW	Unspecified Tank	1899 - 1912	122345
AO	206m E	Unspecified Tank	1981 - 1992	125184
AQ	214m SE	Unspecified Tank	1981 - 1992	138105
AS	242m SW	Unspecified Tank	1912	111772



ID	Location	Land use	Dates present	Group ID
AQ	250m SE	Unspecified Tank	1992	111673
37	251m N	Tanks	1981 - 1995	143841
AN	265m NE	Tanks	1993	104610
48	322m N	Tanks	1981 - 1984	147347
BE	338m N	Tanks	1981	138180
BE	338m N	Tanks	1984	144093
BE	363m N	Unspecified Tank	1981 - 1984	147924
BE	377m N	Unspecified Tank	1962 - 1969	148213
AZ	377m NE	Unspecified Tank	1981 - 1993	134714
BN	422m NE	Tanks	1993	140270
BN	423m NE	Tanks	1984	142945
BN	423m NE	Tanks	1981	145137
BN	424m NE	Tanks	1993	134080
BN	425m NE	Tanks	1984	146813
BG	426m NE	Tanks	1984	145107
BN	426m NE	Tanks	1981	140843
BG	431m NE	Tanks	1993	139164
BG	432m NE	Tanks	1981	137883
62	433m NE	Tanks	1981 - 1993	129103
BG	437m NE	Unspecified Tank	1962 - 1969	122394
BR	464m SE	Unspecified Tank	1981	111672
BU	472m NE	Unspecified Tank	1969 - 1983	131426
AW	476m N	Tanks	1911	104601
BU	479m NE	Unspecified Tank	1969 - 1992	124339
BG	487m NE	Unspecified Tank	1981	111678
BG	488m NE	Unspecified Tank	1981 - 1993	131777
BU	488m NE	Tanks	1969 - 1983	132559
BU	488m NE	Unspecified Tank	1988	147167



ID	Location	Land use	Dates present	Group ID
BU	491m NE	Unspecified Tank	1992	148133

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	43
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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 13**

ID	Location	Land use	Dates present	Group ID
G	On site	Electricity Substation	1991	60034
10	60m NE	Electricity Substation	1969 - 1980	66321
17	91m NW	Electricity Substation	1981 - 1995	79950
18	93m N	Electricity Substation	1981 - 1995	72124
AE	121m SE	Electricity Substation	1969 - 1995	75857
AE	121m SE	Electricity Substation	1981	83718
K	123m NW	Electricity Substation	1980 - 1996	75635
AG	135m NE	Electricity Substation	1993	76963
AG	135m NE	Electricity Substation	1969 - 1984	68467
AI	141m W	Electricity Substation	1980 - 1992	65529
N	141m NE	Electricity Substation	1969 - 1980	82980
22	148m SE	Electricity Substation	1969 - 1980	75029
23	150m SE	Electricity Substation	1980 - 1987	77304
24	155m SW	Electricity Substation	1981 - 1995	73909
AD	217m N	Electricity Substation	1981 - 1995	79243
AO	226m E	Electricity Substation	1992	60062
33	226m N	Electricity Substation	1981 - 1995	67211



ID	Location	Land use	Dates present	Group ID
35	242m SE	Electricity Substation	1969 - 1980	74133
AS	255m SW	Electricity Substation	1980 - 1992	69194
AS	255m SW	Electricity Substation	1987	64496
42	272m E	Electricity Substation	1992	60061
AX	279m SE	Electricity Substation	1969	60054
AX	281m SE	Electricity Substation	1980	60052
45	293m N	Electricity Substation	1980	60049
49	326m S	Electricity Substation	1980	60058
AZ	338m NE	Electricity Substation	1969 - 1993	71886
50	343m N	Electricity Substation	1980 - 1984	85095
BI	376m N	Electricity Substation	1981	73125
BI	377m N	Electricity Substation	1984 - 1995	66652
55	379m S	Electricity Substation	1990	60033
56	386m SE	Electricity Substation	1980	60051
57	389m S	Electricity Substation	1980 - 1989	68798
BI	389m N	Electricity Substation	1969	76950
58	396m S	Electricity Substation	1966 - 1992	70984
BI	404m N	Electricity Substation	1980 - 1998	77273
AW	413m N	Power House	1911	63660
60	424m N	Electricity Substation	1993 - 1998	81585
BO	444m NE	Electricity Substation	1983 - 1988	78913
BO	458m NE	Electricity Substation	1992	80472
67	468m S	Electricity Substation	1980	60053
BX	482m S	Electricity Substation	1980	60057
BX	485m S	Electricity Substation	1992 - 1997	81950
70	488m N	Electricity Substation	1980 - 1996	76606

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

6

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'.

Features are displayed on the Past land use map on **page 13**

ID	Location	Land use	Dates present	Group ID
U	61m S	Garage	1966 - 1980	25582
U	61m S	Garage	1987 - 1992	27088
19	97m S	Garage	1966 - 1980	25015
AT	246m W	Garage	1980 - 1992	27631
AT	246m W	Garage	1966 - 1987	27121
53	360m S	Garage	1963 - 1969	25024

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

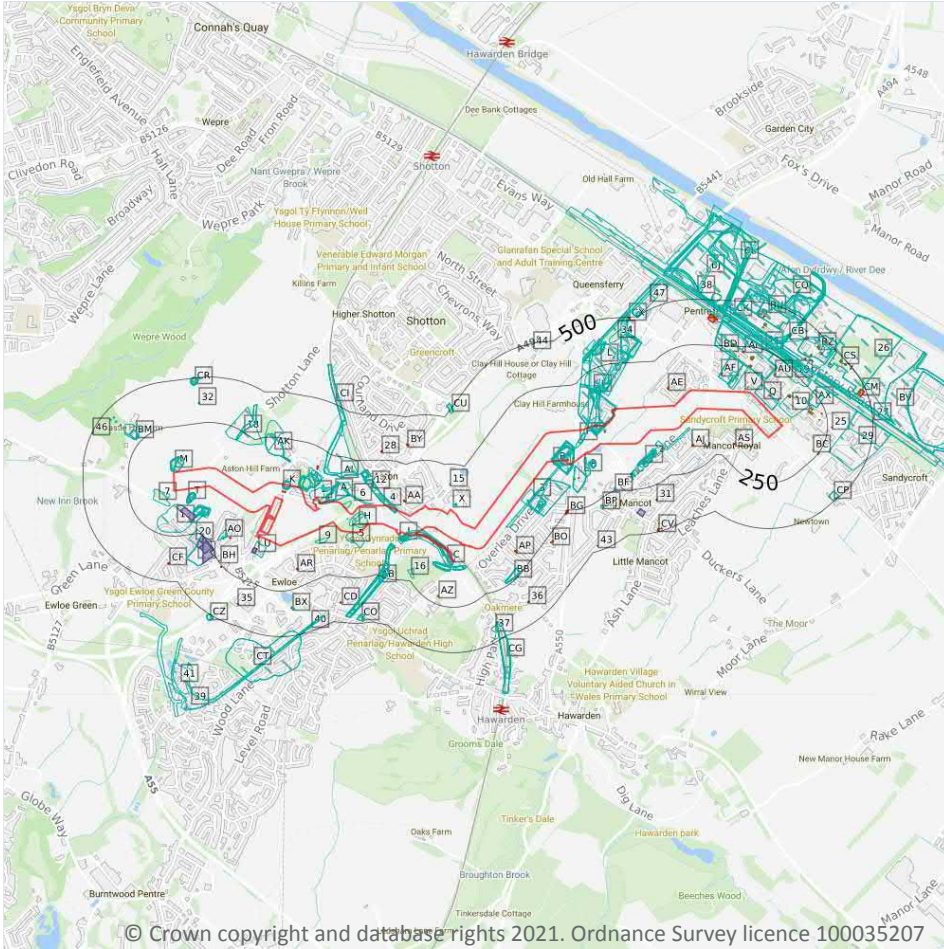
0

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
- Historical garages

2.1 Historical industrial land uses

Records within 500m **467**

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 33**

ID	Location	Land Use	Date	Group ID
1	On site	Unspecified Pit	1969	839191
2	On site	Unspecified Pit	1969	839196
3	On site	Railway Sidings	1938	794526



ID	Location	Land Use	Date	Group ID
4	On site	Cuttings	1960	934681
A	On site	Sand Pits	1960	908356
A	On site	Sand Pits	1948	864320
A	On site	Sand Pit	1869	797382
A	On site	Unspecified Ground Workings	1910	799523
A	On site	Sand Pits	1938	864320
B	On site	Unspecified Quarry	1869	816569
B	On site	Unspecified Ground Workings	1909	885637
B	On site	Unspecified Tank	1909	984547
B	On site	Brick Works	1909	931069
B	On site	Unspecified Ground Workings	1969	951222
B	On site	Unspecified Ground Workings	1989	884238
B	On site	Unspecified Ground Workings	1976	951222
B	On site	Unspecified Works	1960	830099
B	On site	Unspecified Pits	1960	903014
B	On site	Unspecified Pit	1948	931811
B	On site	Brick Works	1948	959283
B	On site	Unspecified Tank	1898	971312
B	On site	Unspecified Pit	1898	879502
B	On site	Unspecified Pit	1898	937583
B	On site	Brick Works	1898	931069
B	On site	Brick Works	1869	936745
B	On site	Brick Works	1938	988384
B	On site	Unspecified Pits	1938	973798
B	On site	Unspecified Tank	1938	984547
B	On site	Brick Works	1938	988384
B	On site	Unspecified Pits	1938	973798
C	On site	Cuttings	1948	980501



ID	Location	Land Use	Date	Group ID
C	On site	Cuttings	1909	981339
C	On site	Railway Sidings	1948	991001
C	On site	Cuttings	1938	980501
D	On site	Cuttings	1948	934681
D	On site	Cuttings	1910	944694
D	On site	Unspecified Pit	1938	885652
D	On site	Unspecified Pit	1938	885652
E	On site	Clay Pit	1869	827658
E	On site	Unspecified Heap	1909	965764
E	On site	Old Colliery	1909	959716
E	On site	Unspecified Ground Workings	1969	939398
E	On site	Unspecified Ground Workings	1989	885533
E	On site	Unspecified Ground Workings	1976	939398
E	On site	Unspecified Old Mine	1960	814657
E	On site	Old Colliery	1948	917222
E	On site	Unspecified Heap	1948	855571
E	On site	Old Colliery	1898	903296
E	On site	Unspecified Heap	1898	885446
E	On site	Unspecified Shafts	1898	809166
E	On site	Colliery	1869	855204
E	On site	Unspecified Shafts	1869	809167
E	On site	Unspecified Heap	1938	855571
E	On site	Old Colliery	1938	939995
E	On site	Unspecified Heap	1938	855571
E	On site	Old Colliery	1938	939995
F	On site	Cuttings	1960	926933
F	On site	Cuttings	1909	934933
F	On site	Cuttings	1938	934933



ID	Location	Land Use	Date	Group ID
G	On site	Railway Sidings	1909	914346
G	On site	Unspecified Ground Workings	1969	971149
G	On site	Unspecified Ground Workings	1976	971149
G	On site	Railway Sidings	1898	867409
G	On site	Railway Sidings	1938	914346
G	On site	Railway Building	1938	819549
H	On site	Unspecified Pit	1969	839197
H	On site	Unspecified Heap	1989	803630
I	On site	Unspecified Pit	1969	964709
I	On site	Unspecified Pit	1989	883227
I	On site	Unspecified Pit	1976	964709
J	On site	Railway Sidings	1869	964495
K	On site	Unspecified Heap	1991	951952
K	On site	Unspecified Heap	1987	951952
K	On site	Unspecified Heap	1981	951952
K	On site	Unspecified Tank	1960	824043
K	On site	Unspecified Heap	1970	942244
L	On site	Railway Sidings	1938	907494
I	0m S	Railway Sidings	1938	914346
5	1m S	Refuse Heap	1969	828563
M	2m N	Unspecified Heap	1869	892215
I	3m S	Railway Sidings	1898	867409
I	3m S	Railway Sidings	1948	914346
N	3m NE	Sand Pits	1960	920552
G	4m SW	Railway Building	1898	819550
M	4m N	Refuse Heap	1948	828558
6	5m N	Railway Sidings	1869	794522
N	6m NE	Sand Pits	1948	882720



ID	Location	Land Use	Date	Group ID
I	6m S	Railway Sidings	1909	914346
I	7m S	Cuttings	1948	970074
M	9m NW	Unspecified Heap	1960	934185
O	10m N	Disused Wire Works	1869	832059
P	11m SE	Old Colliery	1869	980727
M	11m NW	Unspecified Heap	1938	937790
M	11m NW	Unspecified Heap	1938	937790
N	12m NE	Unspecified Pit	1969	862980
N	12m NE	Unspecified Pit	1989	886227
N	12m NE	Unspecified Pit	1976	862980
I	13m S	Cuttings	1909	962360
M	14m NW	Unspecified Ground Workings	1910	799525
Q	14m NE	Unspecified Depot	1976	930588
I	14m S	Cuttings	1938	941386
I	15m S	Unspecified Pit	1960	972186
R	16m SE	Refuse Heaps	1989	808250
Q	17m NE	Unspecified Depot	1989	875842
S	18m SE	Nursery	1969	869809
N	19m NE	Unspecified Ground Workings	1938	875291
N	19m NE	Unspecified Ground Workings	1938	875291
N	20m NE	Sand Pits	1910	887901
O	22m N	Corn Mill	1898	904360
S	22m SE	Nursery	1976	872354
S	22m SE	Nursery	1989	965270
T	23m S	Unspecified Heap	1987	921811
T	23m S	Unspecified Heap	1981	921811
T	23m S	Unspecified Heap	1948	855660
T	23m S	Unspecified Heap	1898	938035



ID	Location	Land Use	Date	Group ID
U	23m S	Garage	1970	934977
B	23m SW	Unspecified Tank	1898	824033
T	23m S	Unspecified Heap	1910	968519
C	26m S	Cuttings	1938	930465
W	27m S	Cuttings	1948	919213
W	27m S	Railway Sidings	1948	794527
C	27m SW	Cuttings	1969	887763
C	27m SW	Cuttings	1989	887763
C	27m SW	Cuttings	1976	887763
C	27m SW	Cuttings	1960	871999
C	27m SW	Cuttings	1909	867451
T	28m S	Unspecified Heap	1938	952847
T	28m S	Unspecified Heap	1938	952847
W	29m S	Cuttings	1909	886018
T	29m S	Unspecified Heap	1960	845985
T	29m S	Unspecified Heap	1970	845985
W	29m S	Cuttings	1960	919213
T	29m S	Unspecified Heap	1869	938035
W	32m SE	Cuttings	1969	906040
W	32m SE	Cuttings	1989	851627
W	32m SE	Cuttings	1976	906040
C	34m SW	Cuttings	1948	968404
C	34m SW	Cuttings	1898	867451
7	35m SW	Unspecified Heap	1869	803592
X	35m NE	Unspecified Tank	1948	848890
X	35m NE	Unspecified Tank	1898	887812
X	35m NE	Unspecified Tank	1960	881709
8	39m SE	Railway Sidings	1869	794484



ID	Location	Land Use	Date	Group ID
P	40m SE	Unspecified Old Shaft	1960	868768
P	40m SE	Unspecified Old Shaft	1948	868758
P	40m SE	Unspecified Shaft	1898	813757
O	41m N	Unspecified Depot	1989	892504
O	41m N	Unspecified Depot	1976	870383
P	41m SE	Unspecified Old Shaft	1909	987828
P	41m SE	Unspecified Old Shaft	1938	911954
P	41m SE	Unspecified Old Shaft	1938	911954
R	42m SE	Refuse Heap	1976	828562
R	50m S	Unspecified Heap	1969	852007
R	50m S	Unspecified Heap	1989	848524
R	50m S	Unspecified Heap	1976	852007
R	50m S	Unspecified Heap	1960	981778
P	50m SE	Unspecified Tank	1869	824035
R	51m S	Unspecified Heap	1948	944821
R	51m S	Unspecified Heap	1909	899183
A	52m NE	Sand Pits	1938	883401
O	53m N	Corn Mill	1898	904360
R	53m SE	Unspecified Heap	1938	983277
R	53m SE	Unspecified Heap	1938	983277
Y	53m SE	Old Colliery	1948	931431
Y	53m SE	Old Colliery	1898	855691
A	54m NE	Sand Pits	1910	883401
9	55m SE	Unspecified Pit	1989	839190
N	55m NE	Sand Pits	1898	887901
P	58m SE	Old Colliery	1909	905244
Z	59m S	Colliery	1869	798229
10	61m NE	Unspecified Works	1969	830087



ID	Location	Land Use	Date	Group ID
AB	62m SW	Cuttings	1938	905298
U	62m S	Garage	1987	890399
U	62m S	Garage	1981	890399
AB	62m SW	Cuttings	1948	870133
AB	67m SW	Cuttings	1909	912433
11	69m SW	Cuttings	1960	914613
A	71m N	Sand Pits	1898	856518
AC	75m SW	Cuttings	1969	948607
AC	75m SW	Cuttings	1989	950389
AC	75m SW	Cuttings	1976	932841
12	76m N	Cuttings	1960	857454
13	76m S	Old Colliery	1869	808568
Z	78m SE	Unspecified Heap	1898	892564
14	82m N	Colliery	1869	990758
J	84m W	Railway Sidings	1898	970124
N	85m NE	Sand Pit	1869	797383
Z	86m SE	Unspecified Heap	1948	956585
Z	86m SE	Unspecified Ground Workings	1938	897047
Z	86m SE	Unspecified Ground Workings	1938	897047
Z	87m SE	Unspecified Heap	1909	989551
Z	87m SE	Unspecified Heap	1960	955709
P	89m SE	Old Colliery	1938	946848
P	89m SE	Old Colliery	1938	946848
P	93m SE	Unspecified Heap	1909	981740
Z	95m SE	Unspecified Heap	1869	857554
P	95m SE	Unspecified Heap	1948	922819
P	96m SE	Unspecified Heap	1938	852566
P	96m SE	Unspecified Heap	1938	852566



ID	Location	Land Use	Date	Group ID
AG	97m S	Unspecified Heap	1898	909143
AG	98m S	Unspecified Heap	1970	986529
AG	102m S	Unspecified Ground Workings	1910	910106
P	102m SE	Unspecified Old Shaft	1948	849731
P	102m SE	Unspecified Shaft	1898	813756
AI	102m NE	Unspecified Works	1989	892866
P	104m SE	Unspecified Heap	1869	860462
AG	104m S	Unspecified Heap	1869	909143
P	104m SE	Unspecified Old Shaft	1909	952142
Z	105m S	Unspecified Old Shaft	1948	947172
Z	105m S	Unspecified Old Shaft	1898	947172
P	105m SE	Unspecified Old Shaft	1938	952142
P	105m SE	Unspecified Old Shaft	1938	952142
AG	106m S	Unspecified Heap	1960	920641
AG	106m S	Unspecified Heap	1948	964776
L	106m NW	Colliery	1909	888065
AG	106m S	Unspecified Ground Workings	1938	871383
AG	106m S	Unspecified Ground Workings	1938	871383
Z	107m S	Unspecified Old Shaft	1938	947172
Z	107m S	Unspecified Old Shaft	1938	947172
Z	107m S	Unspecified Old Shaft	1960	947172
Z	108m S	Unspecified Old Shaft	1909	947172
L	111m N	Colliery	1914	936720
L	111m N	Railway Sidings	1914	969200
AI	112m NE	Unspecified Works	1969	985990
AI	114m NE	Unspecified Works	1976	872879
P	115m SE	Unspecified Tank	1869	824034
J	118m N	Unspecified Heap	1869	868439



ID	Location	Land Use	Date	Group ID
Z	118m S	Unspecified Shaft	1869	813709
J	120m NW	Unspecified Heap	1948	982234
J	120m NW	Railway Sidings	1909	849375
J	121m NW	Unspecified Heap	1909	967655
J	121m NW	Unspecified Heap	1938	909454
J	121m NW	Unspecified Heap	1938	909454
J	122m NW	Unspecified Heap	1960	850887
AG	124m S	Unspecified Old Shaft	1910	954465
J	124m NW	Unspecified Heap	1869	941155
AG	124m S	Garage	1987	880213
AG	124m S	Garage	1981	880213
AG	125m S	Unspecified Old Shaft	1948	847737
AG	125m S	Unspecified Shaft	1898	813758
J	126m N	Unspecified Heap	1914	883710
AK	127m N	Unspecified Ground Workings	1987	881305
AK	127m N	Unspecified Ground Workings	1981	881305
AK	127m N	Unspecified Ground Workings	1970	881305
AG	130m S	Unspecified Old Shaft	1938	960245
AG	130m S	Unspecified Old Shaft	1938	962641
AG	130m S	Unspecified Old Shaft	1960	806211
J	132m NW	Unspecified Heap	1960	858412
J	133m NW	Unspecified Heap	1948	938788
AL	133m N	Unspecified Ground Workings	1938	963066
AL	133m N	Unspecified Ground Workings	1938	963066
J	133m NW	Unspecified Heap	1909	959138
J	133m NW	Unspecified Shaft	1898	851185
J	133m NW	Unspecified Heap	1938	945488
J	133m NW	Unspecified Heap	1938	945488



ID	Location	Land Use	Date	Group ID
J	135m NW	Unspecified Heap	1898	947783
15	135m N	Unspecified Tank	1869	824038
J	136m NW	Unspecified Heap	1914	883820
AL	137m N	Unspecified Pit	1898	839194
J	141m N	Unspecified Shafts	1869	809165
J	143m NW	Unspecified Shafts	1869	809168
AQ	149m N	Cuttings	1938	882087
AQ	150m N	Cuttings	1948	877180
AQ	152m N	Cuttings	1910	888660
J	152m NW	Unspecified Shaft	1898	866825
AQ	153m N	Unspecified Pit	1898	839195
AO	153m SW	Refuse Heap	1869	828559
AT	155m S	Unspecified Heap	1869	803626
AO	157m W	Unspecified Old Shafts	1960	990252
AQ	157m N	Cuttings	1969	960655
AQ	157m N	Cuttings	1989	855474
AQ	157m N	Cuttings	1976	960655
AO	162m W	Old Coal Shafts	1948	866325
AO	162m W	Unspecified Old Shafts	1898	906390
AO	162m W	Old Coal Shafts	1938	866325
AO	163m W	Old Coal Shafts	1909	859313
AB	163m S	Cuttings	1898	943799
AT	164m S	Unspecified Shaft	1869	813708
J	168m NW	Unspecified Heap	1898	803628
AW	170m S	Cuttings	1969	954595
AW	170m S	Cuttings	1989	899920
AW	170m S	Cuttings	1976	954595
16	173m SW	Unspecified Pit	1869	839199



ID	Location	Land Use	Date	Group ID
AO	177m W	Unspecified Old Shafts	1960	845593
17	179m N	Unspecified Heap	1991	803593
AO	182m W	Old Coal Shafts	1938	850398
AO	183m W	Old Coal Shafts	1909	870708
AO	183m W	Old Coal Shafts	1948	950586
AO	183m W	Unspecified Old Shafts	1898	952377
AX	185m NE	Unspecified Warehouse	1989	935972
AX	185m NE	Unspecified Warehouse	1976	984849
18	188m NE	Unspecified Pit	1991	839192
AY	197m NE	Unspecified Ground Workings	1987	876468
AY	197m NE	Unspecified Ground Workings	1981	876468
AY	197m NE	Unspecified Ground Workings	1970	876468
AB	203m SW	Cuttings	1960	933756
19	206m NE	Unspecified Works	1969	830086
BB	209m SE	Unspecified Works	1969	856253
L	210m N	Unspecified Heap	1869	803627
BB	212m SE	Water Works	1989	969198
BB	212m SE	Water Works	1976	899998
BB	213m SE	Unspecified Works	1960	923634
BB	214m SE	Sewage Works	1948	811789
L	217m N	Unspecified Shafts	1898	809170
AB	218m S	Cuttings	1869	879908
AB	223m S	Cuttings	1869	879908
20	225m S	Garage	1970	901952
BE	231m N	Sawmill	1948	808343
BE	233m N	Unspecified Mill	1960	810203
L	234m N	Unspecified Shaft	1869	813711
BF	236m SE	Unspecified Tank	1948	897251



ID	Location	Land Use	Date	Group ID
BF	237m SE	Unspecified Tank	1960	897251
L	240m N	Unspecified Shafts	1898	809169
AB	241m SW	Cuttings	1969	940013
AB	241m SW	Cuttings	1989	853639
AB	241m SW	Cuttings	1976	940013
BI	247m W	Garage	1991	920926
BI	247m W	Garage	1987	920926
BI	247m W	Garage	1981	920926
21	249m NE	Unspecified Pit	1914	839209
BJ	249m NE	Railway Sidings	1914	929950
22	252m NE	Railway Sidings	1898	855202
L	254m N	Unspecified Heap	1869	919098
L	260m N	Unspecified Ground Workings	1909	799530
L	261m N	Unspecified Heap	1948	985862
23	263m NE	Railway Building	1938	819511
24	263m NE	Railway Sidings	1938	986490
BL	265m NE	Railway Sidings	1869	947817
L	270m N	Unspecified Shaft	1869	813710
L	271m N	Unspecified Shafts	1898	809159
L	271m N	Old Clay Pits	1898	814309
BM	273m NW	Brewery	1910	906760
BN	274m NE	Railway Sidings	1969	957506
BN	274m NE	Railway Sidings	1960	917177
26	275m NE	Railway Sidings	1948	940526
BN	277m NE	Railway Sidings	1909	977985
BM	278m NW	Brewery	1948	938554
BM	278m NW	Brewery	1898	906760
BP	279m SE	Unspecified Heap	1869	803629



ID	Location	Land Use	Date	Group ID
BL	279m NE	Railway Sidings	1898	947817
L	280m N	Unspecified Shafts	1898	809171
BM	283m NW	Brewery	1869	913041
BP	288m SE	Coal Pit	1869	808457
27	291m NE	Cuttings	1948	795368
L	291m N	Unspecified Heap	1914	850145
29	293m SE	Unspecified Works	1976	856256
BQ	296m NE	Cuttings	1960	795402
BR	296m NE	Unspecified Pit	1914	839205
30	300m NE	Unspecified Works	1960	855852
BQ	303m NE	Unspecified Pit	1914	839208
BS	308m NW	Railway Sidings	1909	948491
L	310m N	Unspecified Heap	1898	883651
L	311m N	Unspecified Shafts	1898	809158
BN	313m NE	Unspecified Works	1938	981335
BT	314m N	Old Clay Pits	1909	925147
BN	314m NE	Engineering Works	1909	974477
BQ	314m NE	Unspecified Pit	1914	839204
BT	314m N	Old Clay Pits	1938	933040
BT	315m N	Old Clay Pits	1948	960781
BN	317m NE	Unspecified Works	1948	981335
BQ	318m NE	Unspecified Factory	1960	821305
BN	318m NE	Unspecified Works	1969	939017
BT	320m N	Old Clay Pits	1914	900092
BN	321m NE	Engineering Works	1914	974477
BS	328m N	Railway Sidings	1898	880753
BR	329m NE	Unspecified Pit	1914	839206
BV	332m NE	Railway Sidings	1969	961262



ID	Location	Land Use	Date	Group ID
BV	332m NE	Railway Sidings	1989	868782
BV	332m NE	Railway Sidings	1976	961262
BV	332m NE	Railway Sidings	1960	890455
BX	342m S	Unspecified Disused Shafts	1991	968640
BX	342m S	Unspecified Disused Shafts	1987	968640
BX	342m S	Unspecified Disused Shafts	1981	968640
BX	346m S	Unspecified Old Shafts	1898	793276
BZ	348m NE	Unspecified Depot	1969	984152
BZ	348m NE	Unspecified Depot	1989	920251
BZ	348m NE	Unspecified Depot	1976	984152
BX	351m S	Unspecified Disused Shafts	1991	872313
BX	351m S	Unspecified Disused Shafts	1987	941526
BX	351m S	Unspecified Disused Shafts	1981	941526
BX	356m S	Unspecified Old Shafts	1898	793271
32	358m N	Old Lime Kiln	1869	821891
33	360m E	Unspecified Works	1989	852609
BT	360m N	Old Clay Pits	1898	969067
34	363m N	Unspecified Heap	1989	955924
CB	367m NE	Unspecified Works	1969	940565
CB	370m NE	Engine Shed	1909	903518
CB	370m NE	Engine Shed	1938	929283
CB	371m NE	Engine Shed	1948	902516
CB	375m NE	Engine Shed	1914	903518
BW	376m N	Unspecified Tank	1989	909772
BW	378m N	Unspecified Tank	1976	920982
BW	380m N	Unspecified Tank	1969	953119
BN	386m NE	Unspecified Depot	1989	928870
BN	386m NE	Unspecified Depot	1976	855482



ID	Location	Land Use	Date	Group ID
BN	387m NE	Unspecified Depot	1969	928157
CE	391m NW	Unspecified Tank	1869	824044
CG	410m SE	Cuttings	1909	867080
CH	410m NE	Unspecified Works	1976	982976
CG	410m SE	Cuttings	1938	867080
CH	410m NE	Unspecified Works	1989	881656
CG	412m SE	Cuttings	1948	871855
CI	412m NE	Cuttings	1948	864119
CG	413m SE	Cuttings	1960	934723
L	415m N	Pumping Station	1989	822096
CE	417m NW	Unspecified Tank	1869	824045
37	421m SE	Unspecified Ground Workings	1969	799521
CG	424m SE	Cuttings	1898	950402
BZ	424m NE	Cheese Factory	1938	939848
BZ	428m NE	Cheese Factory	1948	939848
CI	430m NE	Cuttings	1960	863101
38	430m N	Railway Sidings	1960	871147
BN	432m N	Unspecified Depot	1989	917877
BN	432m N	Unspecified Depot	1976	973810
BN	432m N	Unspecified Depot	1969	987919
CI	434m NE	Cuttings	1938	851692
CI	435m NE	Cuttings	1910	882818
BZ	438m NE	Unspecified Tank	1976	858773
BJ	439m N	Unspecified Works	1960	936753
BZ	439m NE	Unspecified Tank	1969	926462
BZ	439m NE	Unspecified Tank	1989	882250
39	440m SE	Railway Sidings	1938	879047
CE	443m NW	Unspecified Levels	1898	832409



ID	Location	Land Use	Date	Group ID
40	443m SE	Railway Sidings	1909	890527
41	443m SE	Railway Sidings	1898	846661
CN	448m N	Unspecified Works	1969	952834
CE	448m NW	Unspecified Levels	1898	832408
CO	450m S	Police Station	1989	969800
CO	450m S	Police Station	1976	958647
CN	451m N	Unspecified Works	1976	947394
42	452m N	Chemical Works	1898	867829
CN	452m N	Unspecified Works	1989	988744
CO	456m S	Police Station	1969	908790
CP	458m SE	Unspecified Works	1989	850953
CP	458m SE	Unspecified Works	1976	887739
CQ	460m NE	Unspecified Works	1976	900908
CR	462m N	Sand Pit	1948	963379
CR	462m N	Unspecified Pit	1991	851268
CR	462m N	Unspecified Pit	1987	851268
CR	462m N	Unspecified Pit	1981	851268
CR	462m N	Sand Pit	1960	949712
CR	463m N	Sand Pit	1938	991975
CR	464m N	Sand Pit	1910	972222
CR	466m N	Unspecified Pit	1970	919425
BN	470m N	Unspecified Tank	1948	824032
CT	474m S	Old Colliery	1948	955746
CT	474m S	Old Colliery	1898	898087
44	478m N	Unspecified Tank	1948	824036
CU	480m NW	Smithy	1948	853421
CU	483m NW	Smithy	1898	850881
45	484m NE	Unspecified Heap	1914	803604



ID	Location	Land Use	Date	Group ID
CQ	484m N	Unspecified Works	1989	914964
CW	487m N	Unspecified Heap	1969	982473
CW	487m N	Unspecified Heap	1989	951105
CW	487m N	Unspecified Heap	1976	982473
CG	492m SE	Cuttings	1969	969605
CG	492m SE	Cuttings	1989	854241
CG	492m SE	Cuttings	1976	969605
46	492m NW	Unspecified Old Shaft	1898	806213
47	494m NW	Unspecified Works	1969	830101
CY	495m NW	Pumping Station	1909	936556
CY	496m NW	Pumping Station	1914	945411
CY	497m NW	Pumping Station	1938	920378
CZ	498m SW	Unspecified Pit	1898	944620
CZ	498m SW	Unspecified Pit	1948	968543
CZ	499m SW	Unspecified Pit	1938	913683
CZ	499m SW	Unspecified Pit	1938	913683

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

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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 33**

ID	Location	Land Use	Date	Group ID
B	On site	Unspecified Tank	1911	145886
B	On site	Unspecified Tank	1899	145886
E	On site	Unspecified Tank	1870	111769
H	On site	Tank or Trough	1870	121132



ID	Location	Land Use	Date	Group ID
B	7m SW	Unspecified Tank	1899	111771
Q	14m NE	Unspecified Tank	1984	123356
Q	14m NE	Unspecified Tank	1993	123356
Q	14m NE	Unspecified Tank	1981	123356
V	25m N	Unspecified Tank	1981	126045
V	25m N	Unspecified Tank	1995	126045
Q	61m NE	Tanks	1984	123726
Q	62m NE	Tanks	1981	123726
AD	80m NE	Unspecified Tank	1984	132085
AD	80m NE	Unspecified Tank	1981	132085
S	81m S	Unspecified Tank	1980	111770
S	85m SE	Unspecified Tank	1980	137961
S	85m SE	Unspecified Tank	1992	137961
AN	137m N	Tanks	1981	139798
AN	137m N	Tanks	1984	122815
AN	140m N	Tanks	1993	135609
AN	143m N	Tanks	1993	131546
AN	145m N	Unspecified Tank	1981	111764
AU	159m NE	Tanks	1984	143263
AU	159m NE	Tanks	1993	143263
AV	162m NE	Tanks	1992	104611
AV	163m NE	Unspecified Tank	1981	111675
AM	163m NE	Tanks	1962	139550
AM	163m NE	Tanks	1969	139550
AV	171m NE	Unspecified Tank	1981	111676
AI	177m N	Unspecified Tank	1981	129637
AN	177m N	Tanks	1993	136717
AI	178m N	Unspecified Tank	1995	129637



ID	Location	Land Use	Date	Group ID
AN	179m N	Tanks	1981	134728
AN	180m N	Tanks	1984	136717
AV	181m NE	Tanks	1969	104608
AV	183m NE	Tanks	1969	104609
AI	195m N	Unspecified Tank	1981	142759
AI	195m N	Unspecified Tank	1995	135792
AZ	203m SW	Unspecified Tank	1899	122345
AZ	203m SW	Unspecified Tank	1912	122345
BA	206m E	Unspecified Tank	1981	125184
BA	206m E	Unspecified Tank	1992	125184
BC	214m SE	Unspecified Tank	1981	138105
BC	215m SE	Unspecified Tank	1992	138105
BH	242m SW	Unspecified Tank	1912	111772
BC	250m SE	Unspecified Tank	1992	111673
BK	251m N	Tanks	1995	143841
BK	252m N	Tanks	1981	143841
AX	265m NE	Tanks	1993	104610
BU	322m N	Tanks	1981	147347
BU	322m N	Tanks	1984	147347
BW	338m N	Tanks	1981	138180
BW	338m N	Tanks	1984	144093
BW	363m N	Unspecified Tank	1981	147924
BW	363m N	Unspecified Tank	1984	147924
BW	377m N	Unspecified Tank	1962	148213
BQ	377m NE	Unspecified Tank	1993	134714
BW	377m N	Unspecified Tank	1969	148213
BQ	377m NE	Unspecified Tank	1984	134714
BQ	378m NE	Unspecified Tank	1981	134714



ID	Location	Land Use	Date	Group ID
CJ	422m NE	Tanks	1993	140270
CJ	423m NE	Tanks	1984	142945
CJ	423m NE	Tanks	1981	145137
CJ	424m NE	Tanks	1993	134080
CJ	425m NE	Tanks	1984	146813
BZ	426m NE	Tanks	1984	145107
CJ	426m NE	Tanks	1981	140843
BZ	431m NE	Tanks	1993	139164
BZ	432m NE	Tanks	1981	137883
CL	433m NE	Tanks	1993	129103
CL	434m NE	Tanks	1984	129103
CL	434m NE	Tanks	1981	129103
BZ	437m NE	Unspecified Tank	1969	122394
BZ	438m NE	Unspecified Tank	1962	122394
CP	464m SE	Unspecified Tank	1981	111672
CS	472m NE	Unspecified Tank	1969	131426
CS	472m NE	Unspecified Tank	1983	131426
BN	476m N	Tanks	1911	104601
CS	479m NE	Unspecified Tank	1992	124339
CS	480m NE	Unspecified Tank	1969	124339
CS	480m NE	Unspecified Tank	1983	124339
CS	480m NE	Unspecified Tank	1988	124339
BZ	487m NE	Unspecified Tank	1981	111678
BZ	488m NE	Unspecified Tank	1993	131777
BZ	488m NE	Unspecified Tank	1984	131777
CS	488m NE	Tanks	1983	132559
CS	488m NE	Unspecified Tank	1988	147167
BZ	488m NE	Unspecified Tank	1981	131777



ID	Location	Land Use	Date	Group ID
CS	488m NE	Tanks	1969	132559
CS	491m NE	Unspecified Tank	1992	148133

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

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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 33**

ID	Location	Land Use	Date	Group ID
K	On site	Electricity Substation	1991	60034
AA	60m NE	Electricity Substation	1980	66321
AA	61m NE	Electricity Substation	1969	66321
AE	91m NW	Electricity Substation	1981	79950
AE	91m NW	Electricity Substation	1995	79950
AF	93m N	Electricity Substation	1995	72124
AF	94m N	Electricity Substation	1981	72124
AJ	121m SE	Electricity Substation	1969	75857
AJ	121m SE	Electricity Substation	1981	83718
AJ	122m SE	Electricity Substation	1993	75857
AJ	122m SE	Electricity Substation	1995	75857
AJ	122m SE	Electricity Substation	1992	75857
J	123m NW	Electricity Substation	1996	75635
J	123m NW	Electricity Substation	1996	75635
J	123m NW	Electricity Substation	1992	75635
J	124m NW	Electricity Substation	1980	75635
AM	135m NE	Electricity Substation	1993	76963
AM	135m NE	Electricity Substation	1969	68467



ID	Location	Land Use	Date	Group ID
AM	136m NE	Electricity Substation	1984	68467
AM	136m NE	Electricity Substation	1981	68467
AO	141m W	Electricity Substation	1980	65529
AO	141m W	Electricity Substation	1992	65529
N	141m NE	Electricity Substation	1980	82980
N	141m NE	Electricity Substation	1969	82980
AO	142m W	Electricity Substation	1987	65529
AP	148m SE	Electricity Substation	1980	75029
AP	148m SE	Electricity Substation	1969	75029
AR	150m SE	Electricity Substation	1987	77304
AR	151m SE	Electricity Substation	1980	77304
AS	155m SW	Electricity Substation	1981	73909
AS	155m SW	Electricity Substation	1993	73909
AS	155m SW	Electricity Substation	1995	73909
AS	155m SW	Electricity Substation	1992	73909
AI	217m N	Electricity Substation	1995	79243
AI	217m N	Electricity Substation	1981	79243
BA	226m E	Electricity Substation	1992	60062
BD	226m N	Electricity Substation	1995	67211
BD	227m N	Electricity Substation	1981	67211
BG	242m SE	Electricity Substation	1969	74133
BG	245m SE	Electricity Substation	1980	74133
BH	255m SW	Electricity Substation	1980	69194
BH	255m SW	Electricity Substation	1992	69194
BH	255m SW	Electricity Substation	1987	64496
25	272m E	Electricity Substation	1992	60061
BO	279m SE	Electricity Substation	1969	60054
BO	281m SE	Electricity Substation	1980	60052



ID	Location	Land Use	Date	Group ID
28	293m N	Electricity Substation	1980	60049
31	326m S	Electricity Substation	1980	60058
BQ	338m NE	Electricity Substation	1984	71886
BQ	340m NE	Electricity Substation	1969	71886
BQ	341m NE	Electricity Substation	1993	71886
BQ	343m NE	Electricity Substation	1981	71886
BY	343m N	Electricity Substation	1980	85095
BY	343m N	Electricity Substation	1984	85095
CC	376m N	Electricity Substation	1981	73125
CC	377m N	Electricity Substation	1995	66652
35	379m S	Electricity Substation	1990	60033
36	386m SE	Electricity Substation	1980	60051
CD	389m S	Electricity Substation	1980	68798
CD	389m S	Electricity Substation	1989	68798
CC	389m N	Electricity Substation	1969	76950
CF	396m S	Electricity Substation	1966	70984
CF	398m S	Electricity Substation	1980	70984
CF	399m S	Electricity Substation	1992	70984
CC	404m N	Electricity Substation	1984	66652
CC	404m N	Electricity Substation	1980	77273
CC	404m N	Electricity Substation	1993	77273
CC	404m N	Electricity Substation	1998	77273
CC	404m N	Electricity Substation	1992	77273
CC	404m N	Electricity Substation	1993	77273
BN	413m N	Power House	1911	63660
CK	424m N	Electricity Substation	1993	81585
CK	424m N	Electricity Substation	1998	81585
CK	424m N	Electricity Substation	1993	81585



ID	Location	Land Use	Date	Group ID
CM	444m NE	Electricity Substation	1983	78913
CM	444m NE	Electricity Substation	1988	78913
CM	458m NE	Electricity Substation	1992	80472
43	468m S	Electricity Substation	1980	60053
CV	482m S	Electricity Substation	1980	60057
CV	485m S	Electricity Substation	1997	81950
CV	485m S	Electricity Substation	1995	81950
CV	485m S	Electricity Substation	1992	81950
CX	488m N	Electricity Substation	1980	76606
CX	489m N	Electricity Substation	1996	76606
CX	489m N	Electricity Substation	1996	76606
CX	489m N	Electricity Substation	1992	76606

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

15

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'.

Features are displayed on the Past land use - un-grouped map on **page 33**

ID	Location	Land Use	Date	Group ID
U	61m S	Garage	1966	25582

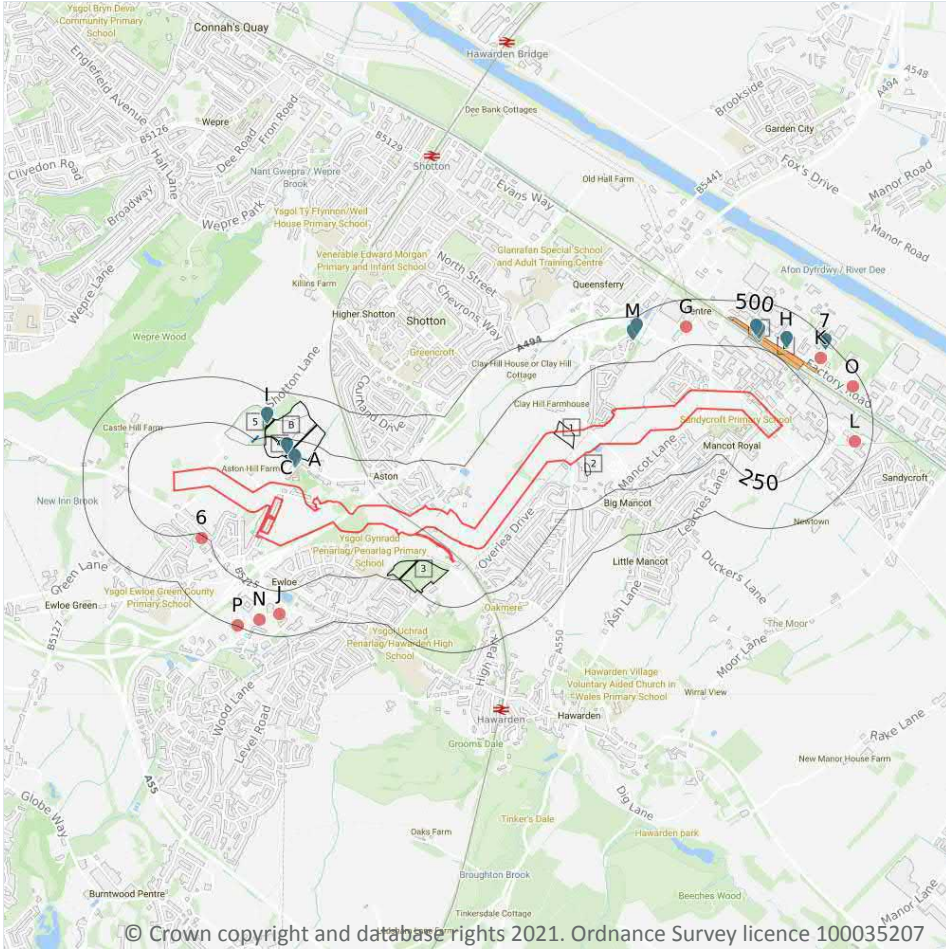


ID	Location	Land Use	Date	Group ID
U	61m S	Garage	1966	25582
U	61m S	Garage	1980	25582
U	61m S	Garage	1987	27088
U	63m SW	Garage	1992	27088
AH	97m S	Garage	1966	25015
AH	98m S	Garage	1980	25015
BI	246m W	Garage	1980	27631
BI	246m W	Garage	1992	27631
BI	246m W	Garage	1987	27121
BI	257m W	Garage	1966	27121
BI	290m SW	Garage	1980	27631
BI	291m SW	Garage	1992	27631
CA	360m S	Garage	1963	25024
CA	360m S	Garage	1969	25024

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



Site Outline

Search buffers in metres (m)

- Active or recent landfill
- Historical landfill (EA/NRW)
- Historical landfill (LA/OS)
- Historical waste sites
- Licensed waste sites
- Waste exemptions

3.1 Active or recent landfill

Records within 500m 2

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation. Features are displayed on the Waste and landfill map on **page 59**

ID	Location	Details
5	182m NE	<p>Operator: D Morgan Plc Site Address: Old Aston Hill, Ewloe, Deeside, Flintshire, CH5 3AH</p> <p>WML Number: 37019 EPR Reference: MOR001 Landfill type: A6 : Landfill taking other wastes Status: Closure IPPC Reference: - EPR Number: EAEP\EA\EPR/SP3394FL/V002</p>

ID	Location	Details	
B	194m N	Operator: D Morgan Plc Site Address: Old Aston Hill, Ewloe, Deeside, Flintshire, CH5 3AH	WML Number: 37013 EPR Reference: MOR002 Landfill type: A6 : Landfill taking other wastes Status: Closure IPPC Reference: - EPR Number: EAEPR\EA/EPR/BP3894FD/A001

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

3.2 Historical landfill (BGS records)

Records within 500m	0
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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	1
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Landfill sites identified from Local Authority records and high detail historical mapping.

Features are displayed on the Waste and landfill map on **page 59**

ID	Location	Site address	Source	Data type
2	41m SE	Refuse Tip	1969 mapping	Polygon

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

3.4 Historical landfill (EA/NRW records)

Records within 500m	4
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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.

Features are displayed on the Waste and landfill map on **page 59**

ID	Location	Details		
1	On site	Site Address: Land off Gladstone Way Licence Holder Address: -	Waste Licence: Yes Site Reference: 115/82, 126/84 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 04/06/1982 Licence Surrender: 04/06/1985	Operator: - Licence Holder: John Connah First Recorded 31/12/1982 Last Recorded: 31/12/1984
3	55m SW	Site Address: Upper Aston Hill Lane Licence Holder Address: -	Waste Licence: Yes Site Reference: UT8 Waste Type: Inert, Industrial, Commercial, Household, Special Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: Alyn and Deeside District Council First Recorded - Last Recorded: -
4	132m N	Site Address: Land at Rear Of Transport Yard Licence Holder Address: -	Waste Licence: Yes Site Reference: 121/83, 136/85 Waste Type: Inert, Commercial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 01/11/1983 Licence Surrender: 12/07/1986	Operator: - Licence Holder: Mr M R Jackson First Recorded - Last Recorded: 12/07/1986
B	149m N	Site Address: Sea View Farm Licence Holder Address: -	Waste Licence: Yes Site Reference: 154/88, NOW-437-L, 163, 6835/0091 Waste Type: Inert, Industrial, Commercial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 23/03/1979 Licence Surrender: -	Operator: - Licence Holder: D Morgan Plc First Recorded 23/03/1979 Last Recorded: 30/06/1997

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

3.5 Historical waste sites

Records within 500m

5

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

Features are displayed on the Waste and landfill map on **page 59**



ID	Location	Address	Further Details	Date
D	251m NE	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1980
D	277m NE	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1993
E	289m N	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1984
F	334m N	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1980
F	340m N	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1995

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

3.6 Licensed waste sites

Records within 500m

53

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

Features are displayed on the Waste and landfill map on **page 59**

ID	Location	Details		
A	146m N	Site Name: - Site Address: The Old Transport Yard, Old Aston Hill, Ewloe, Deeside, Flintshire, CH5 3AH Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: XP3694FN EPR reference: - Operator: Mr M R Jackson Waste Management licence No: 0 Annual Tonnage: 5000	Issue Date: 15/12/2015 Effective Date: 15/12/2015 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective



ID	Location	Details		
A	146m N	Site Name: - Site Address: The Old Transport Yard, Old Aston Hill, Ewloe, Deeside, Flintshire, CH5 3AH Correspondence Address: -	Type of Site: Metal Recycling Site (Vehicle Dismantler) Size: - Environmental Permitting Regulations (Waste) Licence Number: XP3694FN EPR reference: - Operator: Mr M R Jackson Waste Management licence No: 37067 Annual Tonnage: 5000	Issue Date: 15/12/2015 Effective Date: 15/12/2015 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
A	146m N	Site Name: The Old Transport Yard Site Address: Mr M R Jackson, The Old Transport Yard, Old Aston Hill, Deeside, Flintshire, CH5 3AH Correspondence Address: -	Type of Site: Metal Recycling Site (Vehicle Dismantler) Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: XP3694FN EPR reference: - Operator: Mr M R Jackson Waste Management licence No: 37067 Annual Tonnage: 5000	Issue Date: 15/12/2015 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
A	146m N	Site Name: - Site Address: The Old Transport Yard, Old Aston Hill, Ewloe, Deeside, Flintshire, CH5 3AH Correspondence Address: -	Type of Site: Metal Recycling Site (Vehicle Dismantler) Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: XP3694FN EPR reference: - Operator: - Waste Management licence No: 37067 Annual Tonnage: 5000	Issue Date: 15/12/2015 Effective Date: 15/12/2015 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
A	146m N	Site Name: - Site Address: The Old Transport Yard, Old Aston Hill, Ewloe, Deeside, Flintshire, CH5 3AH Correspondence Address: -	Type of Site: Metal Recycling Site (Vehicle Dismantler) Size: - Environmental Permitting Regulations (Waste) Licence Number: XP3694FN EPR reference: - Operator: Mr M R Jackson Waste Management licence No: 37067 Annual Tonnage: 5000	Issue Date: 15/12/2015 Effective Date: 15/12/2015 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective

ID	Location	Details		
A	146m N	Site Name: - Site Address: The Old Transport Yard, Old Aston Hill, Ewloe, Flintshire, Deeside, Flintshire, CH5 3AH Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: XP3694FN EPR reference: - Operator: Mr M R Jackson Waste Management licence No: 37067 Annual Tonnage: 5000	Issue Date: 15/12/2015 Effective Date: 15/12/2015 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
A	147m N	Site Name: M R Jackson & Sons Site Address: The Old Transport Yard, Old Aston Hill, Ewloe, Deeside, Flintshire, CH5 3AH Correspondence Address: -	Type of Site: Metal Recycling Site (Vehicle Dismantler) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: JAC002 EPR reference: XP3694FN/V002 Operator: Jackson M R & Sons Waste Management licence No: 37067 Annual Tonnage: 594	Issue Date: 30/04/1993 Effective Date: - Modified: 22/11/2004 Surrendered Date: 0 Expiry Date: 0 Cancelled Date: 0 Status: Modified
A	148m N	Site Name: Sea View Farm 2 Site Address: - Correspondence Address: New Hay, Chester Road, Great Sutton, South Wirral, L66 2LS	Type of Site: Household, Commercial & Industrial Waste Landfill Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MOR001 EPR reference: - Operator: D. Morgan Plc Waste Management licence No: 37019 Annual Tonnage: 0	Issue Date: 20/02/1991 Effective Date: - Modified: 31/10/2001 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
A	159m N	Site Name: Sea Veiw Farm 1 Site Address: Old Aston Hill, Ewloe, CH66 2LS Correspondence Address: New Hey, Chester Road, Great Sutton, South Wirral, L66 2LS	Type of Site: Landfill taking other wastes Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MOR002 EPR reference: - Operator: D. Morgan Plc Waste Management licence No: 37013 Annual Tonnage: 0	Issue Date: 02/11/1988 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Closure



ID	Location	Details		
C	212m N	Site Name: Sea View Farm 1 Site Address: Old Aston Hill, Ewloe, Deeside, Flintshire, CH5 3AH Correspondence Address: -	Type of Site: Landfill taking other wastes Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MOR002 EPR reference: EA/EPR/BP3894FD/A001 Operator: D Morgan Plc Waste Management licence No: 37013 Annual Tonnage: 150000	Issue Date: 02/11/1988 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Closure
C	212m N	Site Name: - Site Address: Sea View Farm 1, Ewloe, Deeside, Flintshire, CH5 3AH Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: BP3894FD EPR reference: - Operator: D Morgan Plc Waste Management licence No: 0 Annual Tonnage: 0	Issue Date: 02/11/1988 Effective Date: 02/11/1988 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
C	212m N	Site Name: - Site Address: Sea View Farm 1, Ewloe, Deeside, Flintshire, CH5 3AH Correspondence Address: -	Type of Site: Landfill taking other wastes Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: BP3894FD EPR reference: - Operator: - Waste Management licence No: 37013 Annual Tonnage: 0	Issue Date: 02/11/1988 Effective Date: 02/11/1988 Modified: - Surrendered Date: - Expiry Date: 25/01/2002 Cancelled Date: - Status: Effective
C	212m N	Site Name: - Site Address: Sea View Farm 1, Ewloe, Deeside, Flintshire, CH5 3AH Correspondence Address: -	Type of Site: Landfill taking other wastes Size: - Environmental Permitting Regulations (Waste) Licence Number: BP3894FD EPR reference: - Operator: D Morgan Plc Waste Management licence No: 37013 Annual Tonnage: 0	Issue Date: 02/11/1988 Effective Date: 02/11/1988 Modified: - Surrendered Date: - Expiry Date: 25/01/2002 Cancelled Date: - Status: Effective

ID	Location	Details		
C	212m N	Site Name: - Site Address: Sea View Farm 1, Ewloe, Flintshire, Deeside, Flintshire, CH5 3AH Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: BP3894FD EPR reference: - Operator: D Morgan Plc Waste Management licence No: 37013 Annual Tonnage: 0	Issue Date: 02/11/1988 Effective Date: 02/11/1988 Modified: - Surrendered Date: - Expiry Date: 25/01/2002 Cancelled Date: - Status: Effective
C	212m N	Site Name: - Site Address: Sea View Farm 1, Ewloe, Deeside, Flintshire, CH5 3AH Correspondence Address: -	Type of Site: Landfill taking other wastes Size: - Environmental Permitting Regulations (Waste) Licence Number: BP3894FD EPR reference: - Operator: D Morgan Plc Waste Management licence No: 37013 Annual Tonnage: 0	Issue Date: 02/11/1988 Effective Date: 02/11/1988 Modified: - Surrendered Date: - Expiry Date: 25/01/2002 Cancelled Date: - Status: Effective
C	213m N	Site Name: Sea View Farm 1 Site Address: Old Aston Hill, Ewloe, Deeside, Flintshire, CH5 3AH Correspondence Address: -	Type of Site: Landfill taking other wastes Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MOR002 EPR reference: BP3894FD/A001 Operator: D Morgan Plc Waste Management licence No: 37013 Annual Tonnage: 150000	Issue Date: 02/11/1988 Effective Date: - Modified: - Surrendered Date: 0 Expiry Date: 0 Cancelled Date: 0 Status: Closure
E	317m N	Site Name: A & A Car Dismantlers Site Address: Dundas Sidings, Factory Road, Sandycroft, Deeside, Flintshire, CH5 2DD Correspondence Address: 26, Boundary Lane, Saltney, Chester, CH4 8LW	Type of Site: Metal Recycling Site (Vehicle Dismantler) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: CHA003 EPR reference: - Operator: Chadwick S J Waste Management licence No: 37110 Annual Tonnage: 0	Issue Date: 07/07/1994 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued



ID	Location	Details		
E	325m N	Site Name: - Site Address: A & A Car Dismantlers, Sandycroft, Deeside, Flintshire, CH5 2QJ Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: HP3194FC EPR reference: - Operator: James John Chadwick Waste Management licence No: 0 Annual Tonnage: 0	Issue Date: 07/07/1994 Effective Date: 07/07/1994 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Revoked
E	325m N	Site Name: - Site Address: A & A Car Dismantlers, Sandycroft, Deeside, Flintshire, CH5 2QJ Correspondence Address: -	Type of Site: Metal Recycling Site (Vehicle Dismantler) Size: - Environmental Permitting Regulations (Waste) Licence Number: HP3194FC EPR reference: - Operator: James John Chadwick Waste Management licence No: 37110 Annual Tonnage: 0	Issue Date: 07/07/1994 Effective Date: 07/07/1994 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Revoked
E	325m N	Site Name: - Site Address: A & A Car Dismantlers, Sandycroft, Deeside, Flintshire, CH5 2QJ Correspondence Address: -	Type of Site: Metal Recycling Site (Vehicle Dismantler) Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: HP3194FC EPR reference: - Operator: - Waste Management licence No: 37110 Annual Tonnage: 0	Issue Date: 07/07/1994 Effective Date: 07/07/1994 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Revoked
E	325m N	Site Name: - Site Address: A & A Car Dismantlers, Sandycroft, Deeside, Flintshire, CH5 2QJ Correspondence Address: -	Type of Site: Metal Recycling Site (Vehicle Dismantler) Size: - Environmental Permitting Regulations (Waste) Licence Number: HP3194FC EPR reference: - Operator: James John Chadwick Waste Management licence No: 37110 Annual Tonnage: 0	Issue Date: 07/07/1994 Effective Date: 07/07/1994 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Revoked

ID	Location	Details		
E	325m N	Site Name: - Site Address: A & A Car Dismantlers, Sandycroft, Flintshire, Deeside, Flintshire, CH5 2QJ Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: HP3194FC EPR reference: - Operator: James John Chadwick Waste Management licence No: 37110 Annual Tonnage: 0	Issue Date: 07/07/1994 Effective Date: 07/07/1994 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Revoked
E	326m N	Site Name: A & A Car Dismantlers Site Address: Dundas Sidings, Factory Road, Sandycroft, Deeside, Flintshire, CH5 2QJ Correspondence Address: -	Type of Site: Metal Recycling Site (Vehicle Dismantler) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: CHA003 EPR reference: HP3194FC/A001 Operator: Chadwick James John Waste Management licence No: 37110 Annual Tonnage: 300	Issue Date: 07/07/1994 Effective Date: - Modified: - Surrendered Date: 0 Expiry Date: 0 Cancelled Date: 0 Status: Revoked
E	343m N	Site Name: Queensferry Depot Site Address: Manweb Cfc Removal, Central Stores, Factory Road, Sandycroft, Flintshire, CH5 2QJ Correspondence Address: -	Type of Site: Physical Treatment Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MAN001 EPR reference: EA/EPR/FP3194FH/A001 Operator: S P Manweb Plc Waste Management licence No: 37120 Annual Tonnage: 50000	Issue Date: 14/10/1994 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
E	343m N	Site Name: - Site Address: Queensferry Depot, Factory Road, Sandycroft, Flintshire, CH5 2QJ Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: FP3194FH EPR reference: - Operator: S P Manweb Plc Waste Management licence No: 0 Annual Tonnage: 0	Issue Date: 14/10/1994 Effective Date: 14/10/1994 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective



ID	Location	Details		
E	343m N	Site Name: - Site Address: Queensferry Depot, Factory Road, Sandycroft, Flintshire, CH5 2QJ Correspondence Address: -	Type of Site: Physical Treatment Facility Size: - Environmental Permitting Regulations (Waste) Licence Number: FP3194FH EPR reference: - Operator: S P Manweb Plc Waste Management licence No: 37120 Annual Tonnage: 0	Issue Date: 14/10/1994 Effective Date: 14/10/1994 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
E	343m N	Site Name: - Site Address: Queensferry Depot, Factory Road, Sandycroft, Flintshire, CH5 2QJ Correspondence Address: -	Type of Site: Physical Treatment Facility Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: FP3194FH EPR reference: - Operator: - Waste Management licence No: 37120 Annual Tonnage: 0	Issue Date: 14/10/1994 Effective Date: 14/10/1994 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
E	343m N	Site Name: - Site Address: Queensferry Depot, Factory Road, Flintshire, Sandycroft, Flintshire, CH5 2QJ Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: FP3194FH EPR reference: - Operator: S P Manweb Plc Waste Management licence No: 37120 Annual Tonnage: 0	Issue Date: 14/10/1994 Effective Date: 14/10/1994 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
E	343m N	Site Name: - Site Address: Queensferry Depot, Factory Road, Sandycroft, Flintshire, CH5 2QJ Correspondence Address: -	Type of Site: Physical Treatment Facility Size: - Environmental Permitting Regulations (Waste) Licence Number: FP3194FH EPR reference: - Operator: S P Manweb Plc Waste Management licence No: 37120 Annual Tonnage: 0	Issue Date: 14/10/1994 Effective Date: 14/10/1994 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective

ID	Location	Details		
E	344m N	Site Name: Queensferry Depot Site Address: Manweb Cfc Removal, Central Stores, Factory Road, Sandycroft, Flintshire, CH5 2QJ Correspondence Address: -	Type of Site: Physical Treatment Facility Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MAN001 EPR reference: FP3194FH/A001 Operator: S P Manweb Plc Waste Management licence No: 37120 Annual Tonnage: 50000	Issue Date: 14/10/1994 Effective Date: - Modified: - Surrendered Date: 0 Expiry Date: 0 Cancelled Date: 0 Status: Issued
H	352m NE	Site Name: - Site Address: Chadwicks Metal Processing Facility, Sandycroft, Deeside, Flintshire, CH5 2QJ Correspondence Address: -	Type of Site: Metal Recycling Site (mixed MRS's) Size: - Environmental Permitting Regulations (Waste) Licence Number: WP3194FL EPR reference: - Operator: Susan Joan Chadwick & Frances Susan Crump Waste Management licence No: 37219 Annual Tonnage: 0	Issue Date: 12/01/2001 Effective Date: 12/01/2001 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
H	352m NE	Site Name: - Site Address: Chadwicks Metal Processing Facility, Sandycroft, Deeside, Flintshire, CH5 2QJ Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: WP3194FL EPR reference: - Operator: Susan Joan Chadwick & Frances Susan Crump Waste Management licence No: 0 Annual Tonnage: 0	Issue Date: 12/01/2001 Effective Date: 12/01/2001 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
H	352m NE	Site Name: - Site Address: Chadwicks Metal Processing Facility, Sandycroft, Deeside, Flintshire, CH5 2QJ Correspondence Address: -	Type of Site: Metal Recycling Site (mixed MRS's) Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: WP3194FL EPR reference: - Operator: - Waste Management licence No: 37219 Annual Tonnage: 0	Issue Date: 12/01/2001 Effective Date: 12/01/2001 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective



ID	Location	Details		
H	352m NE	Site Name: - Site Address: Chadwicks Metal Processing Facility, Sandycroft, Deeside, Flintshire, CH5 2QJ Correspondence Address: -	Type of Site: Metal Recycling Site (mixed MRS's) Size: - Environmental Permitting Regulations (Waste) Licence Number: WP3194FL EPR reference: - Operator: Susan Joan Chadwick & Frances Susan Crump Waste Management licence No: 37219 Annual Tonnage: 0	Issue Date: 12/01/2001 Effective Date: 12/01/2001 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
H	352m NE	Site Name: - Site Address: Chadwicks Metal Processing Facility, Sandycroft, Flintshire, Deeside, Flintshire, CH5 2QJ Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: WP3194FL EPR reference: - Operator: Susan Joan Chadwick & Frances Susan Crump Waste Management licence No: 37219 Annual Tonnage: 0	Issue Date: 12/01/2001 Effective Date: 12/01/2001 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
H	353m NE	Site Name: Chadwicks Metal Processing Facility Site Address: Chadwicks Metal Processing Facility, Factory Road, Sandycroft, Deeside, Flintshire, CH5 2QJ Correspondence Address: -	Type of Site: Metal Recycling Site (mixed MRS's) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: CHA006 EPR reference: WP3194FL/V002 Operator: Susan Joan Chadwick & Frances Susan Crump Waste Management licence No: 37219 Annual Tonnage: 4999	Issue Date: 12/01/2001 Effective Date: - Modified: 10/03/2006 Surrendered Date: 0 Expiry Date: 0 Cancelled Date: 0 Status: Modified
E	358m N	Site Name: Manweb C F C Removal Site Address: C F C Treatment, Central Stores, Factory Road, Sandycroft, CH1 4LR Correspondence Address: C F C Treatment, Central Stores, Factory Road, Sandycroft, CH1 6LR	Type of Site: Physical Treatment Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MAN001 EPR reference: - Operator: Scottish Power Manweb Plc Waste Management licence No: 37120 Annual Tonnage: 0	Issue Date: 14/10/1994 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued



ID	Location	Details		
E	358m N	Site Name: Manweb C F C Removal Site Address: C F C Treatment, Central Stores, Factory Road, Sandycroft, CH1 4LR Correspondence Address: C F C Treatment, Central Stores, Factory Road, Sandycroft, CH1 6LR	Type of Site: Physical Treatment Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MAN001 EPR reference: - Operator: Sp Manweb Plc Waste Management licence No: 37120 Annual Tonnage: 0	Issue Date: 14/10/1994 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
I	370m N	Site Name: - Site Address: Sea View Farm 2, Ewloe, Deeside, Flintshire, CH5 3AH Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: SP3394FL EPR reference: - Operator: D Morgan Plc Waste Management licence No: 0 Annual Tonnage: 0	Issue Date: 20/02/1991 Effective Date: 20/02/1991 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
I	370m N	Site Name: - Site Address: Sea View Farm 2, Ewloe, Deeside, Flintshire, CH5 3AH Correspondence Address: -	Type of Site: Landfill taking other wastes Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: SP3394FL EPR reference: - Operator: - Waste Management licence No: 37019 Annual Tonnage: 0	Issue Date: 20/02/1991 Effective Date: 20/02/1991 Modified: - Surrendered Date: - Expiry Date: 12/02/2009 Cancelled Date: - Status: Effective
I	370m N	Site Name: - Site Address: Sea View Farm 2, Ewloe, Deeside, Flintshire, CH5 3AH Correspondence Address: -	Type of Site: Landfill taking other wastes Size: - Environmental Permitting Regulations (Waste) Licence Number: SP3394FL EPR reference: - Operator: D Morgan Plc Waste Management licence No: 37019 Annual Tonnage: 0	Issue Date: 20/02/1991 Effective Date: 20/02/1991 Modified: - Surrendered Date: - Expiry Date: 12/02/2009 Cancelled Date: - Status: Effective

ID	Location	Details		
I	370m N	Site Name: - Site Address: Sea View Farm 2, Ewloe, Flintshire, Deeside, Flintshire, CH5 3AH Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: SP3394FL EPR reference: - Operator: D Morgan Plc Waste Management licence No: 37019 Annual Tonnage: 0	Issue Date: 20/02/1991 Effective Date: 20/02/1991 Modified: - Surrendered Date: - Expiry Date: 12/02/2009 Cancelled Date: - Status: Effective
I	370m N	Site Name: - Site Address: Sea View Farm 2, Ewloe, Deeside, Flintshire, CH5 3AH Correspondence Address: -	Type of Site: Landfill taking other wastes Size: - Environmental Permitting Regulations (Waste) Licence Number: SP3394FL EPR reference: - Operator: D Morgan Plc Waste Management licence No: 37019 Annual Tonnage: 0	Issue Date: 20/02/1991 Effective Date: 20/02/1991 Modified: - Surrendered Date: - Expiry Date: 12/02/2009 Cancelled Date: - Status: Effective
I	371m N	Site Name: Sea View Farm 2 Site Address: Old Aston Hill, Ewloe, Deeside, Flintshire, CH5 3AH Correspondence Address: -	Type of Site: Landfill taking other wastes Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MOR001 EPR reference: SP3394FL/V002 Operator: D Morgan Plc Waste Management licence No: 37019 Annual Tonnage: 1000000	Issue Date: 20/02/1991 Effective Date: - Modified: 31/10/2001 Surrendered Date: 0 Expiry Date: 0 Cancelled Date: 0 Status: Closure
M	419m N	Site Name: - Site Address: Queensferry Recycling Park, Queensferry, Deeside, Flintshire, CH5 1TD Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: BP3295VS EPR reference: - Operator: Flintshire County Council Waste Management licence No: 0 Annual Tonnage: 8530	Issue Date: 21/06/1993 Effective Date: 21/06/1993 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective

ID	Location	Details		
M	419m N	Site Name: - Site Address: Queensferry Recycling Park, Queensferry, Deeside, Flintshire, CH5 1TD Correspondence Address: -	Type of Site: Household Waste Amenity Site Size: - Environmental Permitting Regulations (Waste) Licence Number: BP3295VS EPR reference: - Operator: Flintshire County Council Waste Management licence No: 37072 Annual Tonnage: 8530	Issue Date: 21/06/1993 Effective Date: 21/06/1993 Modified: - Surrendered Date: 01/10/2020 Expiry Date: - Cancelled Date: - Status: Surrender
M	419m N	Site Name: Queensferry Civic Amenity Site Site Address: Chester Road East, Queensferry, Deeside, Flintshire, CH5 1TD Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: FLI021 EPR reference: BP3295VS/T001 Operator: Flintshire County Council Waste Management licence No: 37072 Annual Tonnage: 8530	Issue Date: 21/06/1993 Effective Date: 08/04/2009 Modified: 30/10/2006 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred
M	419m N	Site Name: - Site Address: Queensferry Recycling Park, Queensferry, Deeside, Flintshire, CH5 1TD Correspondence Address: -	Type of Site: Household Waste Amenity Site Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: BP3295VS EPR reference: - Operator: - Waste Management licence No: 37072 Annual Tonnage: 8530	Issue Date: 21/06/1993 Effective Date: 21/06/1993 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
M	419m N	Site Name: - Site Address: Queensferry Recycling Park, Queensferry, Flintshire, Deeside, Flintshire, CH5 1TD Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: BP3295VS EPR reference: - Operator: Flintshire County Council Waste Management licence No: 37072 Annual Tonnage: 8530	Issue Date: 21/06/1993 Effective Date: 21/06/1993 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective



ID	Location	Details		
M	419m N	Site Name: - Site Address: Queensferry Recycling Park, Queensferry, Deeside, Flintshire, CH5 1TD Correspondence Address: -	Type of Site: Household Waste Amenity Site Size: - Environmental Permitting Regulations (Waste) Licence Number: BP3295VS EPR reference: - Operator: Flintshire County Council Waste Management licence No: 37072 Annual Tonnage: 8530	Issue Date: 21/06/1993 Effective Date: 21/06/1993 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
M	420m N	Site Name: Queensferry Recycling Park Site Address: Queensferry Recycling Park, Chester Road East, Queensferry, Deeside, Flintshire, CH5 1TD Correspondence Address: -	Type of Site: Household Waste Amenity Site Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: FLI021 EPR reference: BP3295VS/V002 Operator: Flintshire County Council Waste Management licence No: 37072 Annual Tonnage: 8530	Issue Date: 21/06/1993 Effective Date: 08/04/2009 Modified: 08/12/2011 Surrendered Date: 0 Expiry Date: 0 Cancelled Date: 0 Status: Modified
M	449m N	Site Name: Queensferry Civic Amenity Site Site Address: Chester Road East, Queensferry, Deeside, Flintshire, CH4 9QA Correspondence Address: Standard Landfill, Spencers Industrial Estate, Buckley, Flintshire, CH7 3LY	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ADW006 EPR reference: - Operator: A D Waste Ltd Waste Management licence No: 37072 Annual Tonnage: 0	Issue Date: 21/06/1993 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
7	488m NE	Site Name: Trident Metals Ltd Site Address: Factory Road West, Sandycroft, Deeside, Flintshire, CH5 2DD Correspondence Address: Factory Road West, Sandycroft, Deeside, Flintshire, CH5 2DD	Type of Site: Metal Recycling Site (mixed MRS's) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: TRI001 EPR reference: - Operator: Trident Metals Ltd Waste Management licence No: 37074 Annual Tonnage: 0	Issue Date: 30/06/1993 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued

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



3.7 Waste exemptions

Records within 500m
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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 59**

ID	Location	Site	Reference	Category	Sub-Category	Description
6	266m SW	Griffiths Groundworks civils, Boars Head, Holywell Road, Ewloe, Mold, Flintshire, CH53BS	NRW-WME044049	Using waste exemption	On a farm	Use of waste in construction
G	348m N	Booker Ltd, Makro S S W, Ffordd Pentre, Pentre, Deeside, Flintshire, CH5 2DW	NRW-WME060676	Storing waste exemption	Not on a farm	Storage of waste in a secure place
G	348m N	Booker Ltd, Makro S S W, Ffordd Pentre, Deeside, Flintshire, CH52DW	NRW-WME028558	Storing waste exemption	Not on a farm	Storage of waste in a secure place
J	376m S	Pen Cefn, Ynys Mon, CH5 3DT	NRW-WME004649	Using waste exemption	Waste Exemption - Agricultural	Use of waste derived biodiesel as fuel
J	376m S	Pen Cefn, Ynys Mon, CH5 3DT	NRW-WME004649	Storing waste exemption	Waste Exemption - Non-Agricultural	Storage of sludge
K	407m NE	UNIT C&D, FACTORY ROAD, SANDYCROFT, DEESIDE, CH5 2QJ	WEX158042	Treating waste exemption	Not on a Farm	Preparatory treatments (baling, sorting, shredding etc)
K	407m NE	UNIT C&D, FACTORY ROAD, SANDYCROFT, DEESIDE, CH5 2QJ	WEX158042	Treating waste exemption	Not on a Farm	Recovery of textiles
K	407m NE	UNIT C&D, FACTORY ROAD, SANDYCROFT, DEESIDE, CH5 2QJ	WEX158042	Treating waste exemption	Not on a Farm	Manual treatment of waste
K	407m NE	UNIT C&D, FACTORY ROAD, SANDYCROFT, DEESIDE, CH5 2QJ	WEX158042	Treating waste exemption	Not on a Farm	Recovery of scrap metal
K	407m NE	UNIT C&D, FACTORY ROAD, SANDYCROFT, DEESIDE, CH5 2QJ	WEX158042	Treating waste exemption	Not on a Farm	Sorting mixed waste



ID	Location	Site	Reference	Category	Sub-Category	Description
K	407m NE	UNIT C&D, FACTORY ROAD, SANDYCROFT, DEESIDE, CH5 2QJ	WEX158042	Storing waste exemption	Not on a Farm	Storage of waste in a secure place
K	407m NE	UNIT C&D, FACTORY ROAD, SANDYCROFT, DEESIDE, CH5 2QJ	WEX158042	Storing waste exemption	Not on a Farm	Storage of waste in secure containers
K	407m NE	Safer Surfacing Ltd, Sandycroft, Factory Road, Deeside, CH5 2QJ	WEX132158	Treating waste exemption	Not on a farm	Mechanical treatment of end-of-life tyres
K	407m NE	Safer Surfacing Ltd, Sandycroft, Factory Road, Deeside, CH5 2QJ	WEX132158	Using waste exemption	Not on a farm	Use of waste to manufacture finished goods
K	407m NE	Centrica Business Solutions (UK) Ltd, Scottishpower, Queensferry Depot, Factory Road, Sandycroft, Deeside, Flintshire, CH5 2QJ	NRW-WME051020	Storing waste exemption	Not on a farm	Storage of waste in secure containers
K	407m NE	SAFER SURFACING LTD, UNIT A-D DEVA INDUSTRIAL ESTATE, FACTORY ROAD, DEESIDE, DEESIDE, CH5 2QJ	NRW-WME046571	Using waste exemption	Not on a farm	Use of waste to manufacture finished goods
K	407m NE	SAFER SURFACING LTD, UNIT A-D DEVA INDUSTRIAL ESTATE, FACTORY ROAD, DEESIDE, DEESIDE, CH5 2QJ	NRW-WME046571	Treating waste exemption	Not on a farm	Manual treatment of waste
K	407m NE	SAFER SURFACING LTD, UNIT A-D DEVA INDUSTRIAL ESTATE, FACTORY ROAD, DEESIDE, DEESIDE, CH5 2QJ	NRW-WME046571	Storing waste exemption	Not on a farm	Storage of waste in a secure place
K	407m NE	SAFER SURFACING LTD, UNIT A-D DEVA INDUSTRIAL ESTATE, FACTORY ROAD, DEESIDE, DEESIDE, CH5 2QJ	NRW-WME046571	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
K	407m NE	SAFER SURFACING LTD, UNIT A-D DEVA INDUSTRIAL ESTATE, FACTORY ROAD, DEESIDE, DEESIDE, CH5 2QJ	NRW-WME046571	Treating waste exemption	Not on a farm	Recovery of textiles



ID	Location	Site	Reference	Category	Sub-Category	Description
K	407m NE	SAFER SURFACING LTD, UNIT A-D DEVA INDUSTRIAL ESTATE, FACTORY ROAD, DEESIDE, DEESIDE, CH5 2QJ	NRW- WME046571	Storing waste exemption	Not on a farm	Storage of waste in secure containers
K	407m NE	SAFER SURFACING LTD, UNIT A-D DEVA INDUSTRIAL ESTATE, FACTORY ROAD, DEESIDE, DEESIDE, CH5 2QJ	NRW- WME046571	Treating waste exemption	Not on a farm	Recovery of scrap metal
K	407m NE	SAFER SURFACING LTD, UNIT A-D DEVA INDUSTRIAL ESTATE, FACTORY ROAD, DEESIDE, DEESIDE, CH5 2QJ	NRW- WME046571	Treating waste exemption	Not on a farm	Mechanical treatment of end-of-life tyres
K	407m NE	SAFER SURFACING LTD, UNIT A-D DEVA INDUSTRIAL ESTATE, FACTORY ROAD, DEESIDE, DEESIDE, CH5 2QJ	NRW- WME046571	Treating waste exemption	Not on a farm	Sorting mixed waste
K	407m NE	Dwr Cymru Cyfyngedig, Dwr Cymru Queensferry Wastewater Treatment Works, Factory Road, Sandycroft, Deeside, Flintshire, CH5 2QJ	NRW- WME040491	Treating waste exemption	Not on a farm	Recovery of waste at a waste water treatment works
K	407m NE	ENER.G Combined heat and power, Scottishpower, Queensferry Depot, Factory Road, Sandycroft, Glannau Dyfrdwy, CH52QJ	NRW- WME019742	Storing waste exemption	Not on a farm	Storage of waste in secure containers
K	407m NE	Reclaimed Plastic Polymers Ltd, Unit 7, Deva Industrial Park off Factory Road, Sandycroft, Deeside, Flintshire, CH52QJ	NRW- WME023863	Storing waste exemption	Not on a farm	Storage of waste in secure containers
K	407m NE	Reclaimed Plastic Polymers Ltd, Unit 7, Deva Industrial Park off Factory Road, Sandycroft, Deeside, Flintshire, CH52QJ	NRW- WME023863	Storing waste exemption	Not on a farm	Storage of waste in a secure place



ID	Location	Site	Reference	Category	Sub-Category	Description
K	407m NE	Reclaimed Plastic Polymers Ltd, Unit 7, Deva Industrial Park off Factory Road, Sandycroft, Deeside, Flintshire, CH52QJ	NRW-WME023863	Treating waste exemption	Not on a farm	Cleaning, washing, spraying or coating relevant waste
K	407m NE	Reclaimed Plastic Polymers Ltd, Unit 7, Deva Industrial Park off Factory Road, Sandycroft, Deeside, Flintshire, CH52QJ	NRW-WME023863	Treating waste exemption	Not on a farm	Sorting mixed waste
K	407m NE	Reclaimed Plastic Polymers Ltd, Unit 7, Deva Industrial Park off Factory Road, Sandycroft, Deeside, Flintshire, CH52QJ	NRW-WME023863	Treating waste exemption	Not on a farm	Treatment of waste toner cartridges by sorting, dismantling, cleaning or refilling
K	407m NE	Reclaimed Plastic Polymers Ltd, Unit 7, Deva Industrial Park off Factory Road, Sandycroft, Deeside, Flintshire, CH52QJ	NRW-WME023863	Treating waste exemption	Not on a farm	Physical treatment of waste edible oil and fat to produce biodiesel
K	407m NE	Reclaimed Plastic Polymers Ltd, Unit 7, Deva Industrial Park off Factory Road, Sandycroft, Deeside, Flintshire, CH52QJ	NRW-WME023863	Treating waste exemption	Not on a farm	Recovery of textiles
K	407m NE	Reclaimed Plastic Polymers Ltd, Unit 7, Deva Industrial Park off Factory Road, Sandycroft, Deeside, Flintshire, CH52QJ	NRW-WME023863	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
K	407m NE	Reclaimed Plastic Polymers Ltd, Unit 7, Deva Industrial Park off Factory Road, Sandycroft, Deeside, Flintshire, CH52QJ	NRW-WME023863	Treating waste exemption	Not on a farm	Screening and blending of waste
K	407m NE	Reclaimed Plastic Polymers Ltd, Unit 7, Deva Industrial Park off Factory Road, Sandycroft, Deeside, Flintshire, CH52QJ	NRW-WME023863	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
K	407m NE	Reclaimed Plastic Polymers Ltd, Unit 7, Deva Industrial Park off Factory Road, Sandycroft, Deeside, Flintshire, CH52QJ	NRW-WME023863	Treating waste exemption	Not on a farm	Mechanical treatment of end-of-life tyres



ID	Location	Site	Reference	Category	Sub-Category	Description
K	407m NE	Reclaimed Plastic Polymers Ltd, Unit 7, Deva Industrial Park off Factory Road, Sandycroft, Deeside, Flintshire, CH52QJ	NRW-WME023863	Treating waste exemption	Not on a farm	Recovery of scrap metal
K	407m NE	Reclaimed Plastic Polymers Ltd, Unit 7, Deva Industrial Park off Factory Road, Sandycroft, Deeside, Flintshire, CH52QJ	NRW-WME023863	Using waste exemption	Not on a farm	Use of waste in construction
K	407m NE	3-- Recycling Ltd, Unit A-D, Factory Road, Deeside, Cheshire, CH52QJ	NRW-WME025993	Treating waste exemption	Not on a farm	Mechanical treatment of end-of-life tyres
K	407m NE	3-- Recycling Ltd, Unit A-D, Factory Road, Deeside, Cheshire, CH52QJ	NRW-WME025993	Treating waste exemption	Not on a farm	Cleaning, washing, spraying or coating relevant waste
K	407m NE	3-- Recycling Ltd, Unit A-D, Factory Road, Deeside, Cheshire, CH52QJ	NRW-WME025993	Using waste exemption	Not on a farm	Use of baled end-of-life tyres in construction
K	407m NE	3-- Recycling Ltd, Unit A-D, Factory Road, Deeside, Cheshire, CH52QJ	NRW-WME025993	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
K	407m NE	3-- Recycling Ltd, Unit A-D, Factory Road, Deeside, Cheshire, CH52QJ	NRW-WME025993	Treating waste exemption	Not on a farm	Recovery of scrap metal
K	407m NE	3-- Recycling Ltd, Unit A-D, Factory Road, Deeside, Cheshire, CH52QJ	NRW-WME025993	Treating waste exemption	Not on a farm	Treatment of waste aerosol cans
K	407m NE	3-- Recycling Ltd, Unit A-D, Factory Road, Deeside, Cheshire, CH52QJ	NRW-WME025993	Treating waste exemption	Not on a farm	Sorting mixed waste
K	407m NE	3-- Recycling Ltd, Unit A-D, Factory Road, Deeside, Cheshire, CH52QJ	NRW-WME025993	Using waste exemption	Not on a farm	Use of waste to manufacture finished goods
K	407m NE	3-- Recycling Ltd, Unit A-D, Factory Road, Deeside, Cheshire, CH52QJ	NRW-WME025993	Treating waste exemption	Not on a farm	Manual treatment of waste
K	407m NE	3-- Recycling Ltd, Unit A-D, Factory Road, Deeside, Cheshire, CH52QJ	NRW-WME025993	Storing waste exemption	Not on a farm	Storage of waste in secure containers



ID	Location	Site	Reference	Category	Sub-Category	Description
K	407m NE	3-- Recycling Ltd, Unit A-D, Factory Road, Deeside, Cheshire, CH52QJ	NRW-WME025993	Treating waste exemption	Not on a farm	Treatment of waste toner cartridges by sorting, dismantling, cleaning or refilling
K	407m NE	3-- Recycling Ltd, Unit A-D, Factory Road, Deeside, Cheshire, CH52QJ	NRW-WME025993	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
K	407m NE	3-- Recycling Ltd, Unit A-D, Factory Road, Deeside, Cheshire, CH52QJ	NRW-WME025993	Storing waste exemption	Not on a farm	Storage of waste in a secure place
K	407m NE	Trade Effluent Services Ltd, Unit 1, Factory Road, Deeside, Flintshire, CH52QJ	NRW-WME028692	Using waste exemption	Not on a farm	Use of waste in construction
K	407m NE	Safer Surfacing Ltd, Unit B, Deva Industrial Estate, Factory Road, Sandycroft, Deeside, CH52QJ	NRW-WME031186	Using waste exemption	Not on a farm	Use of waste to manufacture finished goods
K	407m NE	Safer Surfacing Ltd, Unit B, Deva Industrial Estate, Factory Road, Sandycroft, Deeside, CH52QJ	NRW-WME031186	Treating waste exemption	Not on a farm	Mechanical treatment of end-of-life tyres
K	407m NE	MAN COED VM LTD, Factory Road, Sandycroft, UNIT B, Deeside, Flintshire, CH52QJ	NRW-WME032266	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
K	407m NE	SAFER SURFACING LTD, YARD A DEVA INDUSTRIAL ESTATE, SANDYCROFT, Deeside, Deeside, Cheshire, CH52QJ	NRW-WME032822	Storing waste exemption	Not on a farm	Storage of waste in a secure place
K	407m NE	SAFER SURFACING LTD, YARD A DEVA INDUSTRIAL ESTATE, SANDYCROFT, Deeside, Deeside, Cheshire, CH52QJ	NRW-WME032822	Treating waste exemption	Not on a farm	Mechanical treatment of end-of-life tyres
K	407m NE	SAFER SURFACING LTD, Safer Surfacing Ltd, Factory Road, Sandycroft, Deeside, Flintshire, CH52QJ	NRW-WME032908	Treating waste exemption	Not on a farm	Mechanical treatment of end-of-life tyres



ID	Location	Site	Reference	Category	Sub-Category	Description
K	407m NE	SAFER SURFACING LTD, Safer Surfacing Ltd, Factory Road, Sandycroft, Deeside, Flintshire, CH52QJ	NRW- WME032908	Storing waste exemption	Not on a farm	Storage of waste in a secure place
K	407m NE	Hollingsworth Bros Uk Ltd, Hollingsworth Bros., Land South of Factory Road, Sandycroft, Deeside, Flintshire, CH52QJ	NRW- WME034288	Using waste exemption	Not on a farm	Use of waste in construction
K	407m NE	Endurmeta ltd, Unit A-D deva ind park, Factory road, Deeside, CH52QJ	NRW- WME036814	Storing waste exemption	Not on a farm	Storage of waste in secure containers
K	407m NE	Endurmeta ltd, Unit A-D deva ind park, Factory road, Deeside, CH52QJ	NRW- WME036814	Treating waste exemption	Not on a farm	Manual treatment of waste
K	407m NE	Endurmeta ltd, Unit A-D deva ind park, Factory road, Deeside, CH52QJ	NRW- WME036814	Storing waste exemption	Not on a farm	Storage of waste in a secure place
K	407m NE	Endurmeta ltd, Unit A-D deva ind park, Factory road, Deeside, CH52QJ	NRW- WME036814	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
K	407m NE	Endurmeta ltd, Unit A-D deva ind park, Factory road, Deeside, CH52QJ	NRW- WME036814	Treating waste exemption	Not on a farm	Sorting mixed waste
K	407m NE	Endurmeta ltd, Unit A-D deva ind park, Factory road, Deeside, CH52QJ	NRW- WME036814	Treating waste exemption	Not on a farm	Recovery of scrap metal
K	407m NE	Endurmeta ltd, Unit A-D deva ind park, Factory road, Deeside, CH52QJ	NRW- WME036814	Treating waste exemption	Not on a farm	Recovery of textiles
K	407m NE	Land off, Factory Road, Deeside, Flintshire, CH5 2QJ	NRW- WME001381	Treating waste exemption	Waste Exemption - Agricultural and Non-Agricultural	Cleaning, washing, spraying or coating relevant waste
K	407m NE	Land off, Factory Road, Deeside, Flintshire, CH5 2QJ	NRW- WME001381	Treating waste exemption	Waste Exemption - Non-Agricultural	Recovery of textiles
K	407m NE	Land off, Factory Road, Deeside, Flintshire, CH5 2QJ	NRW- WME001381	Treating waste exemption	Waste Exemption - Agricultural and Non-Agricultural	Preparatory treatments (baling, sorting, shredding etc)



ID	Location	Site	Reference	Category	Sub-Category	Description
K	407m NE	Land off, Factory Road, Deeside, Flintshire, CH5 2QJ	NRW-WME001381	Treating waste exemption	Waste Exemption - Agricultural and Non-Agricultural	Mechanical treatment of end-of-life tyres
K	407m NE	Land off, Factory Road, Deeside, Flintshire, CH5 2QJ	NRW-WME001381	Treating waste exemption	Waste Exemption - Agricultural and Non-Agricultural	Recovery of scrap metal
K	407m NE	Land off, Factory Road, Deeside, Flintshire, CH5 2QJ	NRW-WME001381	Treating waste exemption	Waste Exemption - Agricultural and Non-Agricultural	Sorting mixed waste
K	407m NE	Land off, Factory Road, Deeside, Flintshire, CH5 2QJ	NRW-WME001381	Treating waste exemption	Waste Exemption - Non-Agricultural	Manual treatment of waste
K	407m NE	Land off, Factory Road, Deeside, Flintshire, CH5 2QJ	NRW-WME001381	Storing waste exemption	Waste Exemption - Agricultural and Non-Agricultural	Storage of waste in secure containers
K	407m NE	Land off, Factory Road, Deeside, Flintshire, CH5 2QJ	NRW-WME001381	Storing waste exemption	Waste Exemption - Agricultural and Non-Agricultural	Storage of waste in a secure place
K	407m NE	Hollingsworth Bros (UK) LTD, LAND south of Factory Road, Deeside, Flintshire, CH5 2QJ	NRW-WME002182	Treating waste exemption	Waste Exemption - Non-Agricultural	Screening and blending of waste
K	407m NE	Hollingsworth Bros (UK) LTD, LAND south of Factory Road, Deeside, Flintshire, CH5 2QJ	NRW-WME002182	Treating waste exemption	Waste Exemption - Non-Agricultural	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
K	407m NE	Hollingsworth Bros (UK) LTD, LAND south of Factory Road, Deeside, Flintshire, CH5 2QJ	NRW-WME002182	Using waste exemption	Waste Exemption - Non-Agricultural	Use of waste in construction
K	407m NE	Hollingsworth Bros (UK) LTD, LAND south of Factory Road, Deeside, Flintshire, CH5 2QJ	NRW-WME002182	Using waste exemption	Waste Exemption - Non-Agricultural	Use of waste in the construction of entertainment or educational installations etc
K	407m NE	Hollingsworth Bros (UK) LTD, LAND south of Factory Road, Deeside, Flintshire, CH5 2QJ	NRW-WME002182	Using waste exemption	Waste Exemption - Non-Agricultural	Spreading waste on agricultural land to confer benefit



ID	Location	Site	Reference	Category	Sub-Category	Description
K	407m NE	Hollingsworth Bros (UK) LTD, LAND south of Factory Road, Deeside, Flintshire, CH5 2QJ	NRW-WME002182	Using waste exemption	Waste Exemption - Non-Agricultural	Spreading waste on non-agricultural land to confer benefit
K	407m NE	Factory Road, Sandycroft, Deeside, Flintshire, CH52QJ	NRW-WME003296	Treating waste exemption	Waste Exemption - Non-Agricultural	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
L	407m E	AM RECYCLING, Unit 1, Glendale Avenue, Glannau Dyfrdwy, CH52QP	NRW-WME004869	Storing waste exemption	Not on a farm	Storage of waste in a secure place
L	407m E	AM RECYCLING, Unit 1, Glendale Avenue, Glannau Dyfrdwy, CH52QP	NRW-WME004869	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
L	407m E	AM RECYCLING, Unit 5, Glendale Avenue, DEESIDE, FLINTSHIRE, CH52QP	NRW-WME028859	Storing waste exemption	Not on a farm	Storage of waste in a secure place
L	407m E	AM RECYCLING, Unit 1, Glendale Avenue, Sandycroft Industrial Estate, Glannau Dyfrdwy, CH52QP	NRW-WME034127	Storing waste exemption	Not on a farm	Storage of waste in a secure place
L	407m E	AM RECYCLING, Unit 1, Glendale Avenue, Sandycroft Industrial Estate, Glannau Dyfrdwy, CH52QP	NRW-WME034127	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
L	407m E	Glendale Avenue, Sandycroft Industrial Estate, Deeside, Flintshire, CH5 2QP	NRW-WME001169	Treating waste exemption	Waste Exemption - Non-Agricultural	Anaerobic digestion at premises not used for agriculture and burning of resultant biogas
N	423m S	Cambria Maintenance Services, Cambria Maintenance Services, Ty Draig, Clos Dewi Sant, Ewloe, Deeside, Flintshire, CH53DT	NRW-WME037013	Storing waste exemption	Not on a farm	Storage of waste in a secure place
N	423m S	Cambria Maintenance Services, Cambria Maintenance Services, Ty Draig, Clos Dewi Sant, Ewloe, Deeside, Flintshire, CH53DT	NRW-WME037083	Storing waste exemption	Not on a farm	Storage of waste in secure containers

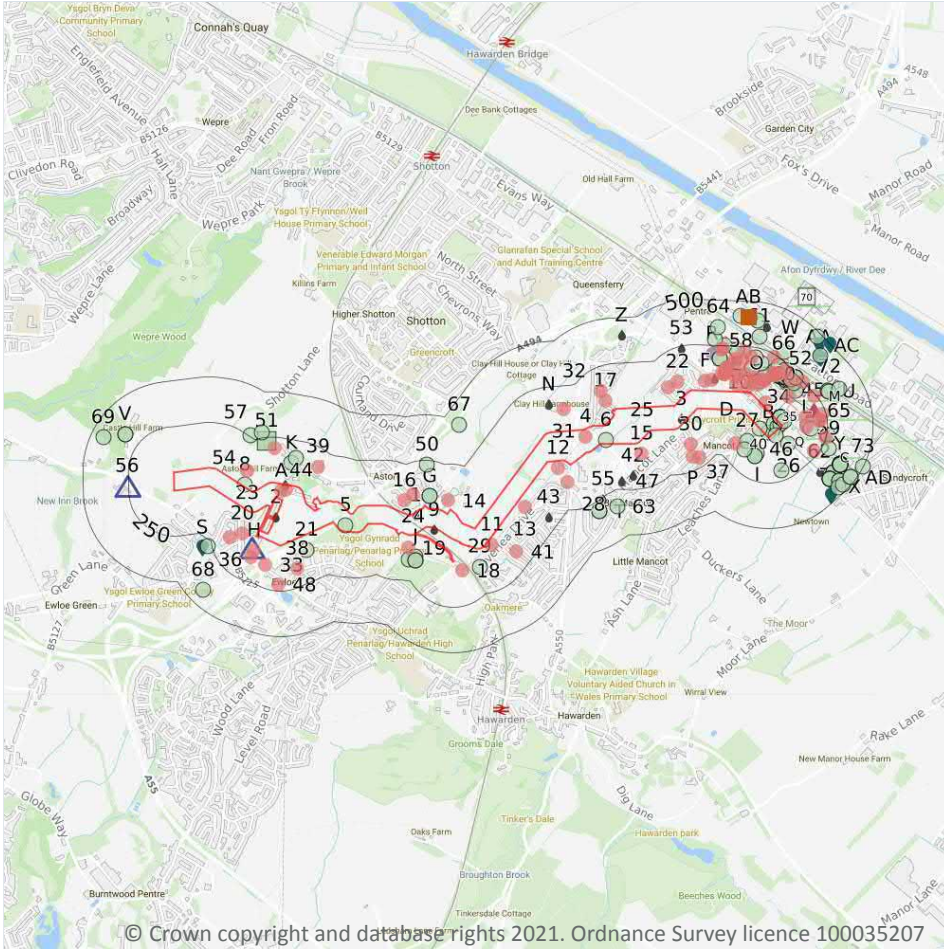


ID	Location	Site	Reference	Category	Sub-Category	Description
O	439m NE	Trade Effluent Services Ltd, 6 Factory Road, Sandycroft, Deeside, Flintshire, CH52DD	NRW- WME028361	Using waste exemption	Not on a farm	Use of waste in construction
O	439m NE	Trade Effluent Services Ltd, 6 Factory Road, Sandycroft, Deeside, Flintshire, CH52DD	NRW- WME028362	Storing waste exemption	Not on a farm	Storage of waste in a secure place
P	500m SW	Redrow Homes Limited, Redrow Homes Ltd, Redrow House, St. Davids Park, Ewloe, Deeside, Flintshire, CH53RX	NRW- WME033087	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
P	500m SW	Redrow Homes Limited, REDROW HOMES LTD, ST DAVIDS PARK, EWLOE, FLINTSHIRE, CH53RX	NRW- WME034701	Using waste exemption	Not on a farm	Use of mulch

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



4 Current industrial land use



4.1 Recent industrial land uses

Records within 250m **79**

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 86**

ID	Location	Company	Address	Activity	Category
4	On site	Pylon	Clwyd, CH5	Electrical Features	Infrastructure and Facilities
A	On site	Electricity Sub Station	Clwyd, CH5	Electrical Features	Infrastructure and Facilities
A	On site	Electricity Sub Station	Clwyd, CH5	Electrical Features	Infrastructure and Facilities

ID	Location	Company	Address	Activity	Category
10	20m NE	Tank	Clwyd, CH5	Tanks (Generic)	Industrial Features
D	24m N	Tank	Clwyd, CH5	Tanks (Generic)	Industrial Features
11	28m SE	Pylon	Clwyd, CH5	Electrical Features	Infrastructure and Facilities
12	39m S	Pylon	Clwyd, CH5	Electrical Features	Infrastructure and Facilities
E	40m N	Electricity Sub Station	Clwyd, CH5	Electrical Features	Infrastructure and Facilities
13	48m SE	Pylon	Clwyd, CH5	Electrical Features	Infrastructure and Facilities
14	51m N	Electricity Sub Station	Clwyd, CH5	Electrical Features	Infrastructure and Facilities
F	54m N	Pumping Station	Clwyd, CH5	Water Pumping Stations	Industrial Features
D	57m N	Pentre Industrial Estate	Clwyd, CH5	Business Parks and Industrial Estates	Industrial Features
15	62m SE	Sewage Pumping Station	Clwyd, CH5	Waste Storage, Processing and Disposal	Infrastructure and Facilities
F	63m N	Gas Governor	Clwyd, CH5	Gas Features	Infrastructure and Facilities
D	64m NE	North Wales Aeroforms	Unit 1e Pentre Industrial Estate, Chester Road, Pentre, Deeside, Clwyd, CH5 2DQ	Precision Engineers	Engineering Services
16	65m NE	Electricity Sub Station	Clwyd, CH5	Electrical Features	Infrastructure and Facilities
17	66m NW	Pylon	Clwyd, CH5	Electrical Features	Infrastructure and Facilities
18	67m SE	Pylon	Clwyd, CH5	Electrical Features	Infrastructure and Facilities
19	68m S	Pylon	Clwyd, CH5	Electrical Features	Infrastructure and Facilities
H	76m S	Castle Garage Ewloe	Liverpool Road, Ewloe, Deeside, Clwyd, CH5 3AR	Vehicle Repair, Testing and Servicing	Repair and Servicing



ID	Location	Company	Address	Activity	Category
20	78m W	Chester Gates & Barriers	22, Yowley Road, Ewloe, Deeside, Clwyd, CH5 3AS	Fences, Gates and Railings	Industrial Products
22	80m NW	Simply Pretty-handmade Jewellery	23, Willow Lane, Pentre, Deeside, Clwyd, CH5 2AD	Jewellery, Gems, Clocks and Watches	Consumer Products
E	83m N	Queensferry Industrial Estate	Clwyd, CH5	Business Parks and Industrial Estates	Industrial Features
23	84m NE	Graham Cuckson Joinery	Aston Hill Farm, Aston Hill, Ewloe, Deeside, Clwyd, CH5 3AH	General Construction Supplies	Industrial Products
24	91m NW	Randups	12, Moorfield Road, Hawarden, Deeside, Clwyd, CH5 3EZ	Office and Shop Equipment	Industrial Products
D	93m N	A A Automotive	Unit 2d Pentre Industrial Estate, Chester Road, Pentre, Deeside, Clwyd, CH5 2DQ	Vehicle Repair, Testing and Servicing	Repair and Servicing
F	94m N	D S D Motors	Unit 4 Queensferry Industrial Estate, Chester Road, Pentre, Deeside, Clwyd, CH5 2DJ	Vehicle Repair, Testing and Servicing	Repair and Servicing
25	95m NW	Electricity Sub Station	Clwyd, CH5	Electrical Features	Infrastructure and Facilities
F	95m N	Flintshire Tyre & Autocare	Old School House, Chester Road, Sandycroft, Deeside, Clwyd, CH5 2QW	Vehicle Parts and Accessories	Motoring
E	96m N	Advanced Building & Roofing Supplies	Unit 11 Queensferry Industrial Estate, Chester Road, Pentre, Deeside, Clwyd, CH5 2DJ	General Construction Supplies	Industrial Products
F	98m N	Electricity Sub Station	Clwyd, CH5	Electrical Features	Infrastructure and Facilities
28	98m S	Mast (Telecommunication)	Clwyd, CH5	Telecommunications Features	Infrastructure and Facilities
D	99m NE	The Caravan Man	Unit 5e Pentre Industrial Estate, Chester Road, Pentre, Deeside, Clwyd, CH5 2DQ	Sports and Leisure Equipment Repair	Repair and Servicing
D	100m NE	Pylon	Clwyd, CH5	Electrical Features	Infrastructure and Facilities
E	102m N	Ferry Chem Cleaning Solutions	Pentre Industrial Estate, Chester Road, Pentre, Deeside, Clwyd, CH5 2DQ	Cleaning Equipment and Supplies	Industrial Products



ID	Location	Company	Address	Activity	Category
F	106m N	The Urban Design	UNIT 3A QUEENSFERRY INDUSTRIAL ESTATE, CHESTER ROAD, Pentre, Deeside, Clwyd, CH5 2DJ	Signs	Industrial Products
F	108m N	Crawford & Co Ltd	Unit 3 Queensferry Industrial Estate, Chester Road, Pentre, Deeside, Clwyd, CH5 2DJ	Civil Engineers	Engineering Services
30	113m SE	Electricity Sub Station	Clwyd, CH5	Electrical Features	Infrastructure and Facilities
H	117m S	T D C Services	T D C House, Ferry Hill, Ewloe, Deeside, Clwyd, CH5 3AW	Cleaning Equipment and Supplies	Industrial Products
31	122m N	Star Oak Designs Ltd	Oak House Farm, Clay Hill Lane, Queensferry, Deeside, Clwyd, CH5 2AQ	Hobby, Sports and Pastime Products	Consumer Products
32	123m NW	Electricity Sub Station	Clwyd, CH5	Electrical Features	Infrastructure and Facilities
33	128m SW	Gantry	Clwyd, CH5	Travelling Cranes and Gantries	Industrial Features
F	134m N	Innate Automotive Solutions	Unit 7 Queensferry Industrial Estate, Chester Road, Pentre, Deeside, Clwyd, CH5 2DJ	Vehicle Repair, Testing and Servicing	Repair and Servicing
F	134m N	C B M Automotive Customs & Repairs	Unit 7 Queensferry Industrial Estate, Chester Road, Pentre, Deeside, Clwyd, CH5 2DJ	Vehicle Repair, Testing and Servicing	Repair and Servicing
F	134m N	Revolve Automotive Ltd	Unit 7 Queensferry Industrial Estate, Chester Road, Pentre, Deeside, Clwyd, CH5 2DJ	Vehicle Cleaning Services	Personal, Consumer and Other Services
L	134m E	Factory	Clwyd, CH5	Unspecified Works Or Factories	Industrial Features
34	134m E	Pylon	Clwyd, CH5	Electrical Features	Infrastructure and Facilities
35	137m NE	Electricity Sub Station	Clwyd, CH5	Electrical Features	Infrastructure and Facilities
36	143m W	Electricity Sub Station	Clwyd, CH5	Electrical Features	Infrastructure and Facilities
38	153m SE	Electricity Sub Station	Clwyd, CH5	Electrical Features	Infrastructure and Facilities
39	156m NE	Electricity Sub Station	Clwyd, CH5	Electrical Features	Infrastructure and Facilities



ID	Location	Company	Address	Activity	Category
40	156m SW	Electricity Sub Station	Clwyd, CH5	Electrical Features	Infrastructure and Facilities
41	160m SE	Electricity Sub Station	Clwyd, CH5	Electrical Features	Infrastructure and Facilities
D	161m NE	Tank	Clwyd, CH5	Tanks (Generic)	Industrial Features
D	162m NE	Tank	Clwyd, CH5	Tanks (Generic)	Industrial Features
O	162m N	Leba Systems Ltd	Unit 10, Queensferry Industrial Estate, Pentre, Deeside, Clwyd, CH5 2DJ	Electronic Equipment	Industrial Products
D	163m NE	Electricity Sub Station	Clwyd, CH5	Electrical Features	Infrastructure and Facilities
D	165m NE	Tank	Clwyd, CH5	Tanks (Generic)	Industrial Features
O	172m N	Pylon	Clwyd, CH5	Electrical Features	Infrastructure and Facilities
P	175m SE	Merlin Access	51, Mancot Way, Mancot, Deeside, Clwyd, CH5 2AW	General Construction Supplies	Industrial Products
O	183m N	Tank	Clwyd, CH5	Tanks (Generic)	Industrial Features
D	186m NE	Works	Clwyd, CH5	Unspecified Works Or Factories	Industrial Features
44	188m N	Jackson's Car Dismantlers	Transport Yard, Aston Hill, Ewloe, Deeside, Clwyd, CH5 3AH	Scrap Metal Merchants	Recycling Services
O	192m N	Tank	Clwyd, CH5	Tanks (Generic)	Industrial Features
P	199m SE	Mel's Amazing Cakes	42, Mancot Way, Mancot, Deeside, Clwyd, CH5 2AP	Baking and Confectionery	Foodstuffs
Q	202m E	Chimney	Clwyd, CH5	Chimneys	Industrial Features
D	210m NE	Sandycroft M O T Centre	Rectors Lane, Pentre, Deeside, Clwyd, CH5 2DH	Vehicle Repair, Testing and Servicing	Repair and Servicing
48	212m S	Gas Valve Compound	Clwyd, CH5	Gas Features	Infrastructure and Facilities
Q	214m E	Tank	Clwyd, CH5	Tanks (Generic)	Industrial Features
D	221m NE	Chimney	Clwyd, CH5	Chimneys	Industrial Features
49	222m SE	Tank	Clwyd, CH5	Tanks (Generic)	Industrial Features



ID	Location	Company	Address	Activity	Category
O	226m N	Electricity Sub Station	Clwyd, CH5	Electrical Features	Infrastructure and Facilities
O	229m N	Electricity Sub Station	Clwyd, CH5	Electrical Features	Infrastructure and Facilities
Q	229m E	Electricity Sub Station	Clwyd, CH5	Electrical Features	Infrastructure and Facilities
O	233m N	Pylon	Clwyd, CH5	Electrical Features	Infrastructure and Facilities
52	235m NE	Chimney	Clwyd, CH5	Chimneys	Industrial Features
M	240m NE	F M C Agro Ltd	Rectors Lane, Pentre, Deeside, Clwyd, CH5 2DH	Agricultural Contractors	Contract Services
C	249m E	Factory	Clwyd, CH5	Unspecified Works Or Factories	Industrial Features
D	250m NE	Sealand Van Hire	Unit 15 Hollands Yard, Rectors Lane, Pentre, Deeside, Clwyd, CH5 2DH	Vehicle Hire and Rental	Hire Services

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	2
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Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on **page 86**

ID	Location	Company	Address	LPG	Status
H	71m SW	OBSOLETE	Liverpool Road, Ewloe, Deeside, Flintshire, CH5 3AR	Not Applicable	Obsolete
56	259m W	DRAGON	Holywell Road, Ewloe, Deeside, Flintshire, CH5 3BS	No	Open

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 4

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.

Features are displayed on the Current industrial land use map on **page 86**

ID	Location	Company	Address	Operational status	Tier
C	11m SE	Shopspec	North West Seelings Ltd (t/a Shopspec), Glendale Park, Sandycroft Ind Est, Flintshire, CH5 2QP	Historical NIHHS Site	-
M	138m NE	Headland Agrochemicals Limited	Headland Agrochemicals Limited, Deeside, Rectors Lane, Pentre, Deeside, Flintshire, CH5 2DH	Historical COMAH Site	COMAH Upper Tier Operator
M	138m NE	FMC Agro Limited	FMC Agro Limited, Deeside, Rectors Lane, Pentre, Deeside, Flintshire, CH5 2DH	Current COMAH Site	COMAH Upper Tier Operator
70	451m NE	Cambrian Gas Limited	Cambrian Gas Limited, HQ/Factory Road, Factory Road Industrial Estate, Factory Road, Sandycroft, Deeside, Flintshire, CH5 2QJ	Current COMAH Site	COMAH Lower Tier Operator



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

1

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.

Features are displayed on the Current industrial land use map on **page 86**

ID	Location	Details	
45	189m NE	Application reference number: No Details Application status: Approved Application date: 18/03/2013 Address: FMC Agro Limited, Rectors Lane, Pentre, Deeside, Flintshire, Wales, CH5 2DH	Details: Hazardous Substances consent for agricultural chemical manufacture and storage Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m

8

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 86**

ID	Location	Details	
R	204m N	Operator: Knauf Insulation Ltd Address: Chemistry Lane, Queensferry, Deeside, Clwyd, CH5 2DB Process: Other Mineral Fibres Permit Number: AH4292	Original Permit Number: IPCAIRAPP Date Approved: 20-6-1993 Effective Date: 20-6-1993 Status: Superseded By Variation

ID	Location	Details	
R	204m N	Operator: Knauf Insulation Ltd Address: Chemistry Lane, Deeside, Clwyd, CH5 2DB Process: Other Mineral Fibres Permit Number: AI0420	Original Permit Number: IPCAIRAPP Date Approved: 31-8-1993 Effective Date: 31-8-1993 Status: Superseded By Variation
R	204m N	Operator: Knauf Insulation Ltd Address: Chemistry Lane, Queensferry, Deeside, Clwyd, CH5 2DB Process: Other Mineral Fibres Permit Number: AN6973	Original Permit Number: IPCMINVAR Date Approved: 13-7-1994 Effective Date: 18-7-1994 Status: Superseded By Variation
R	204m N	Operator: Knauf Insulation Ltd Address: Chemistry Lane, Deeside, Clwyd, CH5 2DB Process: Other Mineral Fibres Permit Number: AN6981	Original Permit Number: IPCMINVAR Date Approved: 13-7-1994 Effective Date: 18-7-1994 Status: Surrendered
R	204m N	Operator: Knauf Insulation Ltd Address: Chemistry Lane, Queensferry, Deeside, Clwyd, CH5 2DB Process: Other Mineral Fibres Permit Number: AS1797	Original Permit Number: IPCMINVAR Date Approved: 6-7-1995 Effective Date: 10-7-1995 Status: Superseded By Variation
R	204m N	Operator: Knauf Insulation Ltd Address: Chemistry Lane, Queensferry, Deeside, Clwyd, CH5 2DB Process: Other Mineral Fibres Permit Number: AZ2481	Original Permit Number: IPCMINVAR Date Approved: 26-8-1997 Effective Date: 29-8-1997 Status: Superseded By Variation
R	204m N	Operator: Knauf Insulation Ltd Address: Chemistry Lane, Queensferry, Deeside, Clwyd, CH5 2DB Process: Other Mineral Fibres Permit Number: AZ8102	Original Permit Number: IPCMAJVAR Date Approved: 23-1-1998 Effective Date: 30-1-1998 Status: Superseded By Variation
R	204m N	Operator: Knauf Insulation Ltd Address: Chemistry Lane, Queensferry, Deeside, Clwyd, CH5 2DB Process: Other Mineral Fibres Permit Number: BE1399	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Revoked - Now Ippc

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m

37

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 86**



ID	Location	Details	
L	124m E	Operator: MARSHALL FOOD GROUP Installation Name: SANDYCROFT POULTRY PROCESSING Process: ANIMAL, VEGETABLE AND FOOD; SLAUGHTERING ANIMALS >50 T/DAY Permit Number: UP3135LL Original Permit Number: BU2101IL	EPR Reference: - Issue Date: 09/03/2006 Effective Date: 09/03/2006 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
L	124m E	Operator: MARSHALL FOOD GROUP LIMITED Installation Name: SANDYCROFT POULTRY PROCESSING Process: ANIMAL VEGETABLE AND FOOD; TREATING ETC ANIMAL RAW MATERIALS (NOT MILK) FOR FOOD >75T/D Permit Number: BU2101IL Original Permit Number: BU2101IL	EPR Reference: - Issue Date: 28/02/2005 Effective Date: 28/02/2005 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
L	124m E	Operator: 2 SISTERS POULTRY LIMITED Installation Name: SANDYCROFT POULTRY EPR/YP3632EM Process: TREATMENT AND PROCESSING (OTHER THAN PACKAGING) OF ONLY ANIMAL RAW MATERIALS (OTHER THAN MILK ONLY) INTENDED FOR PRODUCTION OF FOOD OR FEED WITH A FINISHED PRODUCT CAPACITY GREATER THAN 75 T/D Permit Number: YP3632EM Original Permit Number: YP3632EM	EPR Reference: - Issue Date: 05/02/2014 Effective Date: 05/02/2014 Last date noted as effective: 17/11/2015 Status: TRANSFER EFFECTIVE
L	124m E	Operator: 2 SISTERS POULTRY LIMITED Installation Name: SANDYCROFT POULTRY PROCESSING Process: TREATMENT AND PROCESSING (OTHER THAN PACKAGING) OF ONLY ANIMAL RAW MATERIALS (OTHER THAN MILK ONLY) INTENDED FOR PRODUCTION OF FOOD OR FEED WITH A FINISHED PRODUCT CAPACITY GREATER THAN 75 T/D Permit Number: ZP3933AT Original Permit Number: YP3632EM	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 17/11/2015 Status: REFUSED
L	124m E	Operator: VION FOOD WALES & WEST ENGLAND LTD Installation Name: SANDYCROFT POULTRY PROCESSING Process: ANIMAL, VEGETABLE AND FOOD; SLAUGHTERING ANIMALS >50 T/DAY Permit Number: AP3633HT Original Permit Number: AP3633HT	EPR Reference: - Issue Date: 24/08/2010 Effective Date: 24/08/2010 Last date noted as effective: 17/11/2015 Status: SUPERCEDED



ID	Location	Details	
L	124m E	Operator: VION FOOD WALES & WEST ENGLAND LTD Installation Name: SANDYCROFT POULTRY PROCESSING Process: ANIMAL, VEGETABLE AND FOOD; SLAUGHTERING ANIMALS >50 T/DAY Permit Number: BP3835HA Original Permit Number: AP3633HT	EPR Reference: - Issue Date: 28/09/2010 Effective Date: 28/09/2010 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
L	124m E	Operator: VION FOOD WALES & WEST ENGLAND LTD Installation Name: SANDYCROFT POULTRY PROCESSING Process: ANIMAL, VEGETABLE AND FOOD; SLAUGHTERING ANIMALS >50 T/DAY Permit Number: BP3935ZN Original Permit Number: AP3633HT	EPR Reference: - Issue Date: 28/11/2012 Effective Date: 28/11/2012 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
L	124m E	Operator: W&WE (WALES AND WEST ENGLAND) LIMITED Installation Name: SANDYCROFT POULTRY PROCESSING Process: ANIMAL, VEGETABLE AND FOOD; SLAUGHTERING ANIMALS >50 T/DAY Permit Number: RP3936ZK Original Permit Number: AP3633HT	EPR Reference: - Issue Date: 21/03/2013 Effective Date: 21/03/2013 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
L	124m E	Operator: W&WE (WALES AND WEST ENGLAND) LIMITED Installation Name: SANDYCROFT POULTRY PROCESSING Process: ASSOCIATED PROCESS Permit Number: RP3936ZK Original Permit Number: AP3633HT	EPR Reference: - Issue Date: 21/03/2013 Effective Date: 21/03/2013 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
L	124m E	Operator: W&WE (WALES AND WEST ENGLAND) LIMITED Installation Name: SANDYCROFT POULTRY PROCESSING Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: RP3936ZK Original Permit Number: AP3633HT	EPR Reference: - Issue Date: 21/03/2013 Effective Date: 21/03/2013 Last date noted as effective: 17/11/2015 Status: SUPERCEDED



ID	Location	Details	
L	124m E	Operator: W&WE (WALES AND WEST ENGLAND) LIMITED Installation Name: SANDYCROFT POULTRY PROCESSING Process: TREATMENT AND PROCESSING (OTHER THAN PACKAGING) OF ONLY ANIMAL RAW MATERIALS (OTHER THAN MILK ONLY) INTENDED FOR PRODUCTION OF FOOD OR FEED WITH A FINISHED PRODUCT CAPACITY GREATER THAN 75 T/D Permit Number: RP3936ZK Original Permit Number: AP3633HT	EPR Reference: - Issue Date: 21/03/2013 Effective Date: 21/03/2013 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
L	124m E	Operator: 2 SISTERS POULTRY LIMITED Installation Name: SANDYCROFT POULTRY PROCESSING Process: - Permit Number: YP3632EM Original Permit Number: YP3632EM	EPR Reference: - Issue Date: 05/02/2014 Effective Date: 05/02/2014 Last date noted as effective: 01/12/2016 Status: EFFECTIVE
L	124m E	Operator: WW&E (WALES AND WEST ENGLAND) LIMITED Installation Name: SANDYCROFT POULTRY PROCESSING Process: TREATMENT AND PROCESSING (OTHER THAN PACKAGING) OF ONLY ANIMAL RAW MATERIALS (OTHER THAN MILK ONLY) INTENDED FOR PRODUCTION OF FOOD OR FEED WITH A FINISHED PRODUCT CAPACITY GREATER THAN 75 T/D Permit Number: RP3936ZK Original Permit Number: AP3633HT	EPR Reference: - Issue Date: 21/03/2013 Effective Date: 21/03/2013 Last date noted as effective: 01/07/2013 Status: EFFECTIVE
L	124m E	Operator: WW&E (WALES AND WEST ENGLAND) LIMITED Installation Name: SANDYCROFT POULTRY PROCESSING Process: CREATED BY IED - DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: RP3936ZK Original Permit Number: AP3633HT	EPR Reference: - Issue Date: 21/03/2013 Effective Date: 21/03/2013 Last date noted as effective: 01/07/2013 Status: EFFECTIVE
L	124m E	Operator: 2 SISTERS FOOD GROUP LIMITED Installation Name: SANDYCROFT POULTRY PROCESSING Process: SLAUGHTERING ANIMALS AT A PLANT WITH A CARCASS PRODUCTION CAPACITY OF MORE THAN 50 TONNES PER DAY. Permit Number: YP3632EM Original Permit Number: YP3632EM	EPR Reference: - Issue Date: 22/10/2019 Effective Date: 24/11/2019 Last date noted as effective: 01/04/2021 Status: EFFECTIVE



ID	Location	Details	
L	124m E	Operator: 2 SISTERS FOOD GROUP LIMITED Installation Name: SANDYCROFT POULTRY PROCESSING Process: TREATMENT AND PROCESSING, OTHER THAN EXCLUSIVELY PACKAGING, OF THE FOLLOWING RAW MATERIALS, WHETHER PREVIOUSLY PROCESSED OR UNPROCESSED, INTENDED FOR THE PRODUCTION OF FOOD OR FEED (WHERE THE WEIGHT OF THE FINISHED PRODUCT EXCLUDES PACKAGING)—ONLY ANIMAL RAW MATERIALS (OTHER THAN MILK ONLY) WITH A FINISHED PRODUCT PRODUCTION CAPACITY GREATER THAN 75 TONNES PER DAY Permit Number: YP3632EM Original Permit Number: YP3632EM	EPR Reference: - Issue Date: 22/10/2019 Effective Date: 24/11/2019 Last date noted as effective: 01/04/2021 Status: EFFECTIVE
L	124m E	Operator: 2 SISTERS FOOD GROUP LIMITED Installation Name: SANDYCROFT POULTRY PROCESSING Process: DISPOSAL OF NON-HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 50 TONNES PER DAY (OR 100 TONNES PER DAY IF THE ONLY WASTE TREATMENT ACTIVITY IS ANAEROBIC DIGESTION) INVOLVING ONE OR MORE OF THE FOLLOWING ACTIVITIES, AND EXCLUDING ACTIVITIES COVERED BY COUNCIL DIRECTIVE 91/271/EEC CONCERNING URBAN WASTE-WATER TREATMENT(4)—PHYSICO-CHEMICAL TREATMENT Permit Number: YP3632EM Original Permit Number: YP3632EM	EPR Reference: - Issue Date: 22/10/2019 Effective Date: 24/11/2019 Last date noted as effective: 01/04/2021 Status: EFFECTIVE
L	124m E	Operator: 2 SISTERS POULTRY LIMITED Installation Name: SANDYCROFT POULTRY PROCESSING Process: SLAUGHTERING ANIMALS AT PLANT WITH A CARCASS PRODUCTION CAPACITY OF MORE THAN 50... Permit Number: YP3632EM Original Permit Number: YP3632EM	EPR Reference: - Issue Date: 05/02/2014 Effective Date: 05/02/2014 Last date noted as effective: 01/04/2018 Status: EFFECTIVE
L	124m E	Operator: CYMRU COUNTRY CHICKENS LTD Installation Name: SANDYCROFT POULTRY PROCESSING Process: ANIMAL VEGETABLE AND FOOD; TREATING ETC ANIMAL RAW MATERIALS (NOT MILK) FOR FOOD >75T/D Permit Number: UP3135LL Original Permit Number: BU2101IL	EPR Reference: - Issue Date: 09/03/2006 Effective Date: 09/03/2006 Last date noted as effective: 02/10/2009 Status: EFFECTIVE



ID	Location	Details	
R	204m N	Operator: KNAUF INSTALLATION LIMITED Installation Name: QUEENSFERRY MINERAL FIBRE WORKS EA/EPR/BR9383ID/V003 Process: GLASS AND GLASS FIBRE; GLASS/ENAMEL FRIT MANUFACTURE >100T/12 MONTHS Permit Number: BR9383ID Original Permit Number: BR9383ID	EPR Reference: - Issue Date: 25/06/2004 Effective Date: 25/06/2004 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
R	204m N	Operator: KNAUF INSULATION LTD Installation Name: - Process: GLASS & GLASS FIBRE; GLASS/ENAMEL FRIT MANUFACTURE >100T/12 MONTHS Permit Number: BR9383 Original Permit Number: BR9383	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 01/10/2004 Status: SUPERSEDED BY PAS
D	218m NE	Operator: HEADLAND AGROCHEMICALS LIMITED Installation Name: PENTRE AGROCHEMICALS PLANT EPR/FP3031CW Process: - Permit Number: FP3031CW Original Permit Number: FP3031CW	EPR Reference: - Issue Date: 27/09/2013 Effective Date: 27/09/2013 Last date noted as effective: 01/12/2016 Status: EFFECTIVE
D	218m NE	Operator: HEADLAND AGROCHEMICALS LIMITED Installation Name: PENTRE AGROCHEMICALS PLANT EPR/FP3031CW Process: PRODUCING INORGANIC CHEMICALS SUCH AS: (IV) SALTS SUCH AS AMMONIUM CHLORIDE, POT... Permit Number: FP3031CW Original Permit Number: FP3031CW	EPR Reference: - Issue Date: 27/09/2013 Effective Date: 27/09/2013 Last date noted as effective: 01/04/2018 Status: EFFECTIVE
D	218m NE	Operator: FMC AGRO LIMITED Installation Name: PENTRE AGROCHEMICALS PLANT EPR/FP3031CW Process: PRODUCING INORGANIC CHEMICALS SUCH AS: (IV) SALTS (FOR EXAMPLE AMMONIUM CHLORIDE, POTASSIUM CHLORATE, POTASSIUM CARBONATE, SODIUM CARBONATE, PERBORATE, SILVER NITRATE, CUPRIC ACETATE, AMMONIUM PHOSPHOMOLYBDATE) Permit Number: FP3031CW Original Permit Number: FP3031CW	EPR Reference: - Issue Date: 26/02/2020 Effective Date: 26/02/2020 Last date noted as effective: 01/04/2021 Status: EFFECTIVE
D	218m NE	Operator: HEADLAND AGROCHEMICALS LIMITED Installation Name: PENTRE AGROCHEMICALS PLANT EPR/FP3031CW Process: INORGANIC CHEMICALS; SALTS EG AMMONIUM CHLORIDE Permit Number: DP3836AE Original Permit Number: FP3031CW	EPR Reference: - Issue Date: 08/10/2015 Effective Date: 08/10/2015 Last date noted as effective: 17/11/2015 Status: EFFECTIVE



ID	Location	Details	
D	218m NE	Operator: HEADLAND AGROCHEMICALS LIMITED Installation Name: PENTRE AGROCHEMICALS PLANT EPR/FP3031CW Process: INORGANIC CHEMICALS; SALTS EG AMMONIUM CHLORIDE Permit Number: FP3031CW Original Permit Number: FP3031CW	EPR Reference: - Issue Date: 27/09/2013 Effective Date: 27/09/2013 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
O	228m N	Operator: KNAUF INSTALLATION LIMITED Installation Name: QUEENSFERRY MINERAL FIBRE WORKS Process: GLASS AND GLASS FIBRE; GLASS/ENAMEL FRIT MANUFACTURE >100T/12 MONTHS Permit Number: GP3737XW Original Permit Number: BR9383ID	EPR Reference: - Issue Date: 12/02/2009 Effective Date: 12/02/2009 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
O	228m N	Operator: KNAUF INSTALLATION LIMITED Installation Name: QUEENSFERRY MINERAL FIBRE WORKS Process: GLASS AND GLASS FIBRE; GLASS/ENAMEL FRIT MANUFACTURE >100T/12 MONTHS Permit Number: NP3835SW Original Permit Number: BR9383ID	EPR Reference: - Issue Date: 11/02/2005 Effective Date: 23/02/2005 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
O	228m N	Operator: KNAUF INSULATION LTD Installation Name: QUEENSFERRY MINERAL FIBRE WORKS EPR/BR9383ID Process: GLASS AND GLASS FIBRE; GLASS/ENAMEL FRIT MANUFACTURE >100T/12 MONTHS Permit Number: GP3230RF Original Permit Number: BR9383ID	EPR Reference: - Issue Date: 31/07/2015 Effective Date: 31/07/2015 Last date noted as effective: 17/11/2015 Status: EFFECTIVE
O	228m N	Operator: KNAUF INSULATION LTD Installation Name: QUEENSFERRY MINERAL FIBRE WORKS EPR/BR9383ID Process: OTHER MINERAL FIBRES; MELTING >20 T/D (UNLESS 3.3 A(1) OR (2)) Permit Number: GP3230RF Original Permit Number: BR9383ID	EPR Reference: - Issue Date: 31/07/2015 Effective Date: 31/07/2015 Last date noted as effective: 17/11/2015 Status: EFFECTIVE
O	228m N	Operator: KNAUF INSULATION LTD Installation Name: QUEENSFERRY MINERAL FIBRE WORKS Process: GLASS AND GLASS FIBRE; GLASS/ENAMEL FRIT MANUFACTURE >100T/12 MONTHS Permit Number: PP3335HJ Original Permit Number: BR9383ID	EPR Reference: - Issue Date: 21/02/2011 Effective Date: 21/02/2011 Last date noted as effective: 17/11/2015 Status: SUPERCEDED



ID	Location	Details	
O	228m N	Operator: KNAUF INSULATION LTD Installation Name: QUEENSFERRY MINERAL FIBRE WORKS Process: GLASS AND GLASS FIBRE; GLASS/ENAMEL FRIT MANUFACTURE >100T/12 MONTHS Permit Number: PP3431ZH Original Permit Number: BR9383ID	EPR Reference: - Issue Date: 04/03/2013 Effective Date: 04/03/2013 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
O	228m N	Operator: KNAUF INSULATION LTD Installation Name: QUEENSFERRY MINERAL FIBRE WORKS Process: OTHER MINERAL FIBRES; MELTING >20 T/D (UNLESS 3.3 A(1) OR (2)) Permit Number: PP3431ZH Original Permit Number: BR9383ID	EPR Reference: - Issue Date: 04/03/2013 Effective Date: 04/03/2013 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
O	228m N	Operator: KNAUF INSULATION LTD Installation Name: QUEENSFERRY MINERAL FIBRE WORKS Process: MELTING MINERAL SUBSTANCES INCLUDING THE PRODUCTION OF MINERAL FIBRES WITH A MEL... Permit Number: BR9383ID Original Permit Number: GP3230RF	EPR Reference: - Issue Date: 08/08/2017 Effective Date: 08/08/2017 Last date noted as effective: 01/04/2018 Status: EFFECTIVE
O	228m N	Operator: KNAUF INSULATION LTD Installation Name: QUEENSFERRY MINERAL FIBRE WORKS Process: MELTING MINERAL SUBSTANCES INCLUDING THE PRODUCTION OF MINERAL FIBRES IN PLANTS WITH A MELTING CAPACITY EXCEEDING 20 TONNES PER DAY Permit Number: BR9383ID Original Permit Number: GP3230RF	EPR Reference: - Issue Date: 29/01/2020 Effective Date: 29/01/2020 Last date noted as effective: 01/04/2021 Status: EFFECTIVE
O	228m N	Operator: KNAUF INSULATION LTD Installation Name: QUEENSFERRY MINERAL FIBRE WORKS Process: - Permit Number: BR9383ID Original Permit Number: -	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 01/04/2017 Status: DULY MADE
AB	412m N	Operator: TOYOTA MOTOR MANUFACTURING UK LTD Installation Name: - Process: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS Permit Number: BK6483 Original Permit Number: BK6483	EPR Reference: - Issue Date: 20/12/2002 Effective Date: 20/12/2002 Last date noted as effective: 01/10/2004 Status: SUPERSEDED BY PAS

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



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

Records within 500m

6

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.

Features are displayed on the Current industrial land use map on **page 86**

ID	Location	Address	Details	
S	304m W	Ewloe Service Station, Holywell Road, Ewloe, Flintshire, Flintshire, CH5 3BS	Process: Waste Oil Burner 0.4 MW Status: New Legislation Applies Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
AA	403m NE	Waste Oil Burner, Carillion, Prospect House, CH5 2QJ	Process: Waste Oil Burner 0.4 MW Status: New Legislation Applies Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
AA	406m NE	Mcalpine Business Services, Factory Road, Sandycroft, Deeside, Flintshire, CH5 2QJ	Process: Engineering Works Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
AC	455m NE	Trident Metals, Factory Road, Sandycroft, Deeside, Flintshire, CH5 2QJ	Process: Various Aluminium Processes Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
71	466m SE	Sandycroft Textile Services Ltd, Chester Road, Sandycroft, Flintshire, CH5 2QW	Process: Dry Cleaning Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
72	494m NE	Durable Castings Ltd, Factory Road, Sandycroft, Deeside, Flintshire, CH5 2QJ	Process: Non-ferrous Metal Foundry Processes Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

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

21

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 86**

ID	Location	Address	Details	
1	On site	ASTON - WATER MAIN	Effluent Type: UNSPECIFIED Permit Number: CM0073702 Permit Version: 1 Receiving Water: UN-NAMED TRIB. OF QUEENSFERRY	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 20/02/1973 Effective Date: 20/02/1973 Revocation Date: 20/11/1995
2	On site	ASTON NO2 - CHLORINATED O/F	Effluent Type: UNSPECIFIED Permit Number: CM0201401 Permit Version: 1 Receiving Water: GROUND	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 02/10/1989 Effective Date: 02/10/1989 Revocation Date: 17/03/1994
3	On site	MANCOT - COTTAGE LANE	Effluent Type: UNSPECIFIED Permit Number: CM0117101 Permit Version: 1 Receiving Water: UNNAMED TRIB. OF QUEENSFERRY D	Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV) Issue date: 08/02/1967 Effective Date: 08/02/1967 Revocation Date: 04/03/2004
A	On site	ASTON NO1 - CHLORINATED O/F	Effluent Type: UNSPECIFIED Permit Number: CM0201301 Permit Version: 1 Receiving Water: GROUND	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 02/10/1989 Effective Date: 02/10/1989 Revocation Date: 17/03/1994
9	13m SW	ASTON - WATER MAIN	Effluent Type: UNSPECIFIED Permit Number: CM0073701 Permit Version: 1 Receiving Water: UN-NAMED TRIB. OF QUEENSFERRY	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 20/02/1973 Effective Date: 20/02/1973 Revocation Date: 20/11/1995
F	68m N	QUEENSFERRY PENTRE PUMPING STATION, MANCOT LANE, MANCOT, Flintshire, WALES, CH5 2AJ	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: CG0415201 Permit Version: 1 Receiving Water: QUEENSFERRY DITCH	Status: Effective Issue date: 04/03/2004 Effective Date: 04/03/2004 Revocation Date: -
N	154m N	ASHFIELD HOUSE FARM, HAWARDEN, DEESIDE	Effluent Type: UNSPECIFIED Permit Number: CM0093401 Permit Version: 1 Receiving Water: UN-NAMED TRIBS OF QUEENSFERRY	Status: REVOKED - UNSPECIFIED Issue date: 25/08/1982 Effective Date: 25/08/1982 Revocation Date: 03/06/1986



ID	Location	Address	Details	
N	154m N	ASHFIELD HOUSE FARM, HAWARDEN, DEESIDE	Effluent Type: UNSPECIFIED Permit Number: CM0093401 Permit Version: 2 Receiving Water: UN-NAMED TRIBS OF QUEENSFERRY	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 04/06/1986 Effective Date: 04/06/1986 Revocation Date: 02/02/1994
42	175m S	MANCOT LANE CSO, O/S 68 Mancot Lane, MANCOT, Deeside, CH5 2AH	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: CM0163801 Permit Version: 4 Receiving Water: QUEENSFERRY DITCH	Status: Effective Issue date: 21/10/2019 Effective Date: 21/10/2019 Revocation Date: -
43	187m SE	HAWARDEN BLACKBROOK AVENUE - S	Effluent Type: UNSPECIFIED Permit Number: CM0166501 Permit Version: 1 Receiving Water: STREAM	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 20/10/1989 Effective Date: 20/10/1989 Revocation Date: 04/03/1994
47	203m S	MANCOT MANCOT LANE - SSO, MANCOT LANE - SSO	Effluent Type: UNSPECIFIED Permit Number: CM0163801 Permit Version: 1 Receiving Water: PENTRE DRAIN SOUTH	Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 20/10/1989 Effective Date: 20/10/1989 Revocation Date: 03/03/2004
53	238m N	MANCOT LANE CSO, MANCOT LANE, MANCOT, FLINTSHIRE, WALES, CH5 2AH	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: CM0163801 Permit Version: 2 Receiving Water: QUEENSFERRY DITCH	Status: Effective Issue date: 04/03/2004 Effective Date: 04/03/2004 Revocation Date: -
55	257m SE	MANCOT COTTAGE LANE - SSO	Effluent Type: UNSPECIFIED Permit Number: CM0197901 Permit Version: 1 Receiving Water: PENTRE DRAIN SOUTH	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 20/10/1989 Effective Date: 20/10/1989 Revocation Date: 04/03/1994
62	325m SE	SALTNEY CENTRAL TRADING ESTATE UNIT, SALTNEY CENTRAL TRADING ESTATE U, CENTRAL TRADING ESTATE UNIT 14, UNIT 14	Effluent Type: UNSPECIFIED Permit Number: CM0087501 Permit Version: 1 Receiving Water: PENTRE DRAIN NORTH	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 06/02/1980 Effective Date: 06/02/1980 Revocation Date: 26/04/1995
W	373m N	FACTORY ROAD, SANDYCROFT, DEESIDE, Flintshire, CH5 2QJ	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: WQD007720 Permit Version: 1 Receiving Water: River Dee	Status: Effective Issue date: 14/08/2009 Effective Date: 14/08/2009 Revocation Date: -



ID	Location	Address	Details	
W	373m N	FACTORY ROAD, SANDYCROFT, DEESIDE, FLINTSHIRE, CH5 2QJ	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: NPSWQD007720 Permit Version: 1 Receiving Water: RIVER DEE	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 14/08/2009 Effective Date: 14/08/2009 Revocation Date: -
W	373m N	FACTORY ROAD, SANDYCROFT, DEESIDE, FLINTSHIRE, CH5 2QJ	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: NPSWQD007720 Permit Version: 1 Receiving Water: RIVER DEE	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 14/08/2009 Effective Date: 14/08/2009 Revocation Date: -
Z	401m N	QUEENSFERRY PS CHESTER ROAD EAST, QUEENSFERRY PS, CHESTER ROAD EAST, QUENNSFERRY, FLINTSHIRE, CH5 1TD	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: CG0417801 Permit Version: 2 Receiving Water: QUEENSFERRY DRAIN	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 14/09/2006 Effective Date: 14/09/2006 Revocation Date: 30/03/2008
Z	401m N	QUEENSFERRY PS CHESTER ROAD EAST, QUEENSFERRY PS, CHESTER ROAD EAST, QUENNSFERRY, FLINTSHIRE, CH5 1TD	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: CG0417801 Permit Version: 1 Receiving Water: QUEENSFERRY DRAIN	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 18/02/2005 Effective Date: 31/03/2009 Revocation Date: 13/09/2006
Z	401m N	QUEENSFERRY PS CHESTER ROAD EAST, QUEENSFERRY PS, CHESTER ROAD EAST, QUENNSFERRY, FLINTSHIRE, CH5 1TD	Effluent Type: UNSPECIFIED Permit Number: CM0194601 Permit Version: 1 Receiving Water: QUEENSFERRY DRAIN	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 19/10/1989 Effective Date: 19/10/1989 Revocation Date: 04/03/1994
X	438m SE	HOUSING ESTATE OFF HAMILTON AVENUE, HOUSING ESTATE OFF HAMILTON AVEN, OFF HAMILTON AVENUE SANDYCROFT, SANDYCROFT	Effluent Type: UNSPECIFIED Permit Number: CM0045901 Permit Version: 1 Receiving Water: PENTRE DRAIN NORTH	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 16/11/1967 Effective Date: 16/11/1967 Revocation Date: 05/04/1995

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



4.14 Pollutant release to surface waters (Red List)

Records within 500m

0

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

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

4.15 Pollutant release to public sewer

Records within 500m

1

Discharges of Special Category Effluents to the public sewer.

Features are displayed on the Current industrial land use map on **page 86**

ID	Location	Address	Details	
AB	412m N	TOYOTA MOTOR MANUFACTURING UK LTD, TM (UK) ENGINE PLANT, DEESIDE INDUSTRIAL PARK, DEESIDE, CLWYD, CH5 2TW	Permission reference: AU5858 Local Authority: FLINTSHIRE COUNTY COUNCIL First received date: 01/06/2001	Last received date: 01/07/2017 Status: RECEIVED

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

4.16 List 1 Dangerous Substances

Records within 500m

0

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.

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 86**

ID	Location	Name	Status	Receiving Water	Authorised Substances
51	231m N	Sea View Farm., Old Aston Hill Road, Ewloe, Deeside.	Not Active	-	Chromium, Copper, Lead, Nickel, Zinc

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



4.18 Pollution Incidents (EA/NRW)

Records within 500m
138

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

Features are displayed on the Current industrial land use map on **page 86**

ID	Location	Details	
5	On site	Incident Date: 24/03/2003 Incident Identification: 145510 Pollutant: Specific Waste Materials Pollutant Description: Commercial Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
6	On site	Incident Date: 11/12/2001 Incident Identification: 47685 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
B	On site	Incident Date: 11/03/2014 Incident Identification: 1216739 Pollutant: Other Pollutant Pollutant Description: Noise	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	On site	Incident Date: 24/07/2014 Incident Identification: 1260378 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	On site	Incident Date: 08/04/2013 Incident Identification: 1100585 Pollutant: Multiple Pollutants Pollutant Description: 2 Pollutants Including Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	On site	Incident Date: 25/08/2013 Incident Identification: 1151969 Pollutant: Other Pollutant Pollutant Description: Noise	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
7	2m SW	Incident Date: 18/06/2013 Incident Identification: 1123585 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
8	12m NE	Incident Date: 02/08/2003 Incident Identification: 178524 Pollutant: Inert Materials and Wastes Pollutant Description: Soils and Clay	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)



ID	Location	Details	
B	17m SE	Incident Date: 02/09/2015 Incident Identification: 1369849 Pollutant: - Pollutant Description: -	Water Impact: - Land Impact: - Air Impact: -
B	24m NE	Incident Date: 05/06/2013 Incident Identification: 1119315 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	24m NE	Incident Date: 06/08/2013 Incident Identification: 1144622 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	24m NE	Incident Date: 29/09/2013 Incident Identification: 1163346 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	24m NE	Incident Date: 16/07/2015 Incident Identification: 1355818 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	24m NE	Incident Date: 17/06/2013 Incident Identification: 1123338 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	24m NE	Incident Date: 30/08/2015 Incident Identification: 1369241 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Blood and Offal	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	24m NE	Incident Date: 10/04/2013 Incident Identification: 1101506 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	24m NE	Incident Date: 04/06/2013 Incident Identification: 1118938 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	24m NE	Incident Date: 08/09/2013 Incident Identification: 1157507 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)



ID	Location	Details	
B	24m NE	Incident Date: 30/09/2013 Incident Identification: 1163509 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	24m NE	Incident Date: 11/06/2015 Incident Identification: 1344515 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	27m NE	Incident Date: 06/06/2013 Incident Identification: 1119746 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
G	58m NE	Incident Date: 14/01/2017 Incident Identification: 1700211 Pollutant: - Pollutant Description: -	Water Impact: No Details Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
G	58m NE	Incident Date: 14/01/2017 Incident Identification: 1700211 Pollutant: Sewage Material Pollutant Description: Crude Sewage	Water Impact: No Details Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
21	78m SE	Incident Date: 03/09/2015 Incident Identification: 1370247 Pollutant: Multiple Pollutants Pollutant Description: 2 Pollutants Including Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
D	82m NE	Incident Date: 09/06/2003 Incident Identification: 164486 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
26	97m SE	Incident Date: 04/04/2013 Incident Identification: 1099472 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
27	97m SW	Incident Date: 23/10/2015 Incident Identification: 1383044 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
29	98m S	Incident Date: 13/05/2002 Incident Identification: 78332 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)



ID	Location	Details	
I	104m SW	Incident Date: 10/07/2013 Incident Identification: 1131334 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
D	112m NE	Incident Date: 19/11/2015 Incident Identification: 1389206 Pollutant: Oils and Fuel Pollutant Description: Cutting Oils	Water Impact: - Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
J	118m S	Incident Date: 01/05/2014 Incident Identification: 1232067 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
K	122m N	Incident Date: 30/07/2003 Incident Identification: 177864 Pollutant: Inert Materials and Wastes Pollutant Description: Soils and Clay	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
I	124m SW	Incident Date: 29/01/2014 Incident Identification: 1199274 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
I	124m SW	Incident Date: 08/07/2013 Incident Identification: 1130347 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
D	128m NE	Incident Date: 09/06/2003 Incident Identification: 164502 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
J	132m S	Incident Date: 15/05/2013 Incident Identification: 1112827 Pollutant: Sewage Materials Pollutant Description: Storm Sewage	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
J	137m S	Incident Date: 15/07/2016 Incident Identification: 1603943 Pollutant: - Pollutant Description: -	Water Impact: No Details Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
J	137m S	Incident Date: 15/07/2016 Incident Identification: 1603943 Pollutant: Sewage Material Pollutant Description: Crude Sewage	Water Impact: No Details Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)



ID	Location	Details	
E	137m N	Incident Date: 16/03/2016 Incident Identification: 1600971 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: No Details Land Impact: No Details Air Impact: Category 3 (Minor)
E	137m N	Incident Date: 16/03/2016 Incident Identification: 1600971 Pollutant: - Pollutant Description: -	Water Impact: No Details Land Impact: No Details Air Impact: Category 3 (Minor)
37	143m SW	Incident Date: 04/06/2013 Incident Identification: 1118721 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
K	153m N	Incident Date: 27/02/2003 Incident Identification: 140119 Pollutant: Inert Materials and Wastes Pollutant Description: Soils and Clay	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
L	156m E	Incident Date: 11/11/2015 Incident Identification: 1387136 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
D	173m NE	Incident Date: 17/02/2016 Incident Identification: 1411988 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
D	176m NE	Incident Date: 26/04/2013 Incident Identification: 1106989 Pollutant: Multiple Pollutants Pollutant Description: 2 Pollutants Including Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
O	176m N	Incident Date: 02/09/2015 Incident Identification: 1370021 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
D	177m NE	Incident Date: 23/01/2014 Incident Identification: 1197344 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
O	181m N	Incident Date: 10/07/2016 Incident Identification: 1603795 Pollutant: - Pollutant Description: -	Water Impact: No Details Land Impact: No Details Air Impact: Category 3 (Minor)



ID	Location	Details	
O	181m N	Incident Date: 10/07/2016 Incident Identification: 1603795 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: No Details Land Impact: No Details Air Impact: Category 3 (Minor)
D	181m NE	Incident Date: 18/08/2015 Incident Identification: 1365778 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
D	185m NE	Incident Date: 18/04/2014 Incident Identification: 1228381 Pollutant: Other Pollutant Pollutant Description: Noise	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
D	186m NE	Incident Date: 26/04/2013 Incident Identification: 1106990 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
D	186m NE	Incident Date: 08/09/2014 Incident Identification: 1275157 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
D	187m NE	Incident Date: 27/04/2013 Incident Identification: 1107176 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Soot/Smuts	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
D	187m NE	Incident Date: 05/11/2001 Incident Identification: 41162 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
D	187m NE	Incident Date: 23/06/2014 Incident Identification: 1248215 Pollutant: Multiple Pollutants Pollutant Description: 2 Pollutants Including Dust	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
D	188m NE	Incident Date: 25/06/2013 Incident Identification: 1125781 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Damage to Buildings, Vehicles and Vegetation	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
D	190m NE	Incident Date: 11/07/2014 Incident Identification: 1255038 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)



ID	Location	Details	
46	191m S	Incident Date: 11/10/2013 Incident Identification: 1166972 Pollutant: Multiple Pollutants Pollutant Description: 2 Pollutants Including Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
D	195m NE	Incident Date: 10/08/2013 Incident Identification: 1146287 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
O	196m N	Incident Date: 13/03/2014 Incident Identification: 1217688 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
D	200m NE	Incident Date: 19/09/2014 Incident Identification: 1279219 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
D	201m NE	Incident Date: 15/10/2015 Incident Identification: 1380901 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
D	202m NE	Incident Date: 28/11/2013 Incident Identification: 1179568 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
D	202m NE	Incident Date: 23/06/2015 Incident Identification: 1347912 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
D	204m NE	Incident Date: 31/05/2013 Incident Identification: 1117535 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
D	206m NE	Incident Date: 12/03/2014 Incident Identification: 1216947 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
D	207m NE	Incident Date: 25/07/2015 Incident Identification: 1358470 Pollutant: Other Pollutant Pollutant Description: Noise	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)



ID	Location	Details	
D	209m NE	Incident Date: 26/04/2002 Incident Identification: 75118 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
D	212m NE	Incident Date: 27/03/2015 Incident Identification: 1324077 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Droplets	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
D	212m NE	Incident Date: 16/07/2013 Incident Identification: 1134275 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
D	214m NE	Incident Date: 10/05/2013 Incident Identification: 1111462 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
D	222m NE	Incident Date: 27/09/2013 Incident Identification: 1162695 Pollutant: Multiple Pollutants Pollutant Description: 2 Pollutants Including Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
50	225m N	Incident Date: 09/09/2015 Incident Identification: 1371911 Pollutant: Oils and Fuel Pollutant Description: Gas and Fuel Oils	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
O	229m N	Incident Date: 15/10/2013 Incident Identification: 1167691 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
D	234m NE	Incident Date: 11/05/2002 Incident Identification: 78087 Pollutant: Inert Materials and Wastes Pollutant Description: Mineral Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
D	237m NE	Incident Date: 06/06/2002 Incident Identification: 83192 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
D	237m NE	Incident Date: 06/06/2002 Incident Identification: 83192 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)



ID	Location	Details	
D	237m NE	Incident Date: 06/06/2002 Incident Identification: 83192 Pollutant: Atmospheric Pollutants and Effects:Pollutant Not Identified Pollutant Description: Other Atmospheric Pollutant or Effect:Not Identified	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
54	255m NE	Incident Date: 25/01/2002 Incident Identification: 54360 Pollutant: Inert Materials and Wastes Pollutant Description: Soils and Clay	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
O	256m N	Incident Date: 29/07/2014 Incident Identification: 1262020 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
C	258m E	Incident Date: 25/07/2014 Incident Identification: 1260658 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
C	258m E	Incident Date: 21/07/2014 Incident Identification: 1258455 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
C	258m E	Incident Date: 07/08/2014 Incident Identification: 1266009 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
C	258m E	Incident Date: 22/07/2014 Incident Identification: 1259118 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
S	274m W	Incident Date: 05/10/2002 Incident Identification: 112815 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
57	279m N	Incident Date: 14/01/2003 Incident Identification: 131069 Pollutant: Inert Materials and Wastes Pollutant Description: Soils and Clay	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
58	282m N	Incident Date: 06/11/2015 Incident Identification: 1386112 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)



ID	Location	Details	
59	284m SE	Incident Date: 01/09/2014 Incident Identification: 1273035 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
60	291m NE	Incident Date: 28/09/2015 Incident Identification: 1376454 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
T	302m SE	Incident Date: 14/11/2002 Incident Identification: 120840 Pollutant: Sewage Materials Pollutant Description: Storm Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
T	302m SE	Incident Date: 03/11/2002 Incident Identification: 118494 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
61	314m N	Incident Date: 17/07/2014 Incident Identification: 1257396 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
U	316m NE	Incident Date: 13/10/2016 Incident Identification: 1606230 Pollutant: Sewage Material Pollutant Description: Other Sewage Material	Water Impact: Category 3 (Minor) Land Impact: No Details Air Impact: Category 3 (Minor)
U	316m NE	Incident Date: 13/10/2016 Incident Identification: 1606230 Pollutant: - Pollutant Description: -	Water Impact: Category 3 (Minor) Land Impact: No Details Air Impact: Category 3 (Minor)
U	319m NE	Incident Date: 30/10/2002 Incident Identification: 117695 Pollutant: Agricultural Materials and Wastes Pollutant Description: Other Agricultural Material or Waste	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
63	333m SE	Incident Date: 04/07/2001 Incident Identification: 13585 Pollutant: Oils and Fuel Pollutant Description: Other Oil or Fuel	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
V	341m NW	Incident Date: 20/02/2017 Incident Identification: 1700866 Pollutant: - Pollutant Description: -	Water Impact: No Details Land Impact: Category 4 (No Impact) Air Impact: No Details



ID	Location	Details	
V	341m NW	Incident Date: 20/02/2017 Incident Identification: 1700866 Pollutant: Sewage Material Pollutant Description: Final Effluent	Water Impact: No Details Land Impact: Category 4 (No Impact) Air Impact: No Details
64	353m N	Incident Date: 06/07/2015 Incident Identification: 1352008 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
65	373m NE	Incident Date: 27/08/2015 Incident Identification: 1368613 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
X	379m SE	Incident Date: 16/07/2013 Incident Identification: 1134011 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
Y	380m SE	Incident Date: 30/05/2013 Incident Identification: 1117391 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
Y	380m SE	Incident Date: 09/09/2013 Incident Identification: 1157946 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
Y	380m SE	Incident Date: 01/09/2013 Incident Identification: 1154550 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
Y	380m SE	Incident Date: 13/09/2013 Incident Identification: 1159189 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
X	381m SE	Incident Date: 24/06/2013 Incident Identification: 1125463 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
X	381m SE	Incident Date: 26/06/2013 Incident Identification: 1126180 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)



ID	Location	Details	
X	381m SE	Incident Date: 19/06/2013 Incident Identification: 1124119 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
X	381m SE	Incident Date: 07/08/2013 Incident Identification: 1145130 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
Y	386m SE	Incident Date: 16/08/2013 Incident Identification: 1148455 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
Y	386m SE	Incident Date: 17/10/2013 Incident Identification: 1168513 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
Y	386m SE	Incident Date: 25/09/2013 Incident Identification: 1162324 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
Y	386m SE	Incident Date: 01/07/2013 Incident Identification: 1127501 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
Y	386m SE	Incident Date: 09/09/2015 Incident Identification: 1371899 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
Y	386m SE	Incident Date: 19/09/2013 Incident Identification: 1160479 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
Y	386m SE	Incident Date: 27/08/2013 Incident Identification: 1152771 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
Y	386m SE	Incident Date: 24/09/2013 Incident Identification: 1161995 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)



ID	Location	Details	
Y	386m SE	Incident Date: 03/09/2013 Incident Identification: 1155510 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
X	393m SE	Incident Date: 22/09/2013 Incident Identification: 1161179 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
X	393m SE	Incident Date: 23/05/2013 Incident Identification: 1115621 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
X	393m SE	Incident Date: 10/09/2013 Incident Identification: 1158203 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
X	393m SE	Incident Date: 23/08/2013 Incident Identification: 1151446 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
X	393m SE	Incident Date: 11/09/2013 Incident Identification: 1158641 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
66	395m N	Incident Date: 15/04/2015 Incident Identification: 1329057 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
67	410m NW	Incident Date: 03/06/2003 Incident Identification: 162906 Pollutant: Specific Waste Materials Pollutant Description: Asbestos	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
AA	416m NE	Incident Date: 22/07/2014 Incident Identification: 1259193 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
68	416m SW	Incident Date: 04/09/2002 Incident Identification: 105420 Pollutant: Oils and Fuel Pollutant Description: Lubricating Oils	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)



ID	Location	Details	
AB	417m N	Incident Date: 22/04/2013 Incident Identification: 1104974 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
69	434m NW	Incident Date: 02/10/2001 Incident Identification: 34135 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
X	437m SE	Incident Date: 04/08/2014 Incident Identification: 1264741 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
X	437m SE	Incident Date: 06/05/2013 Incident Identification: 1109977 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
X	459m SE	Incident Date: 01/05/2013 Incident Identification: 1108314 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
X	466m SE	Incident Date: 04/07/2013 Incident Identification: 1128995 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
AD	471m SE	Incident Date: 04/08/2014 Incident Identification: 1264554 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
AD	471m SE	Incident Date: 23/07/2014 Incident Identification: 1259775 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
AC	478m NE	Incident Date: 29/04/2013 Incident Identification: 1107640 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
73	497m SE	Incident Date: 30/05/2013 Incident Identification: 1117276 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

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

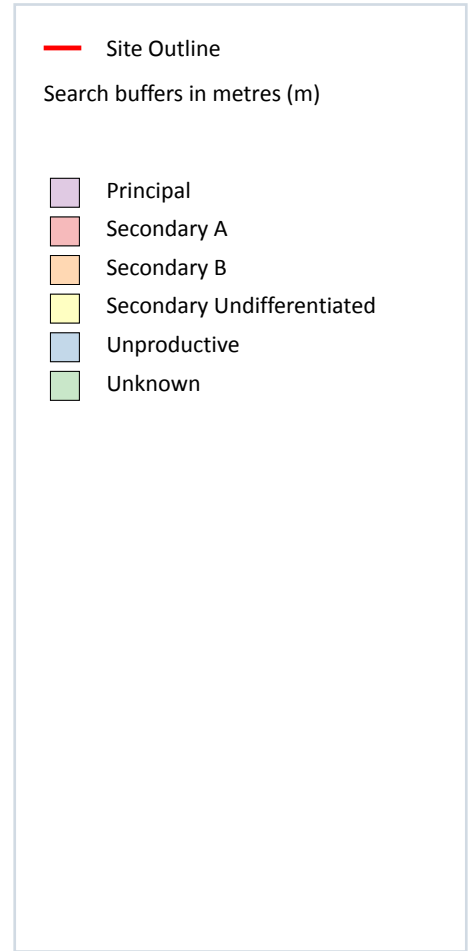
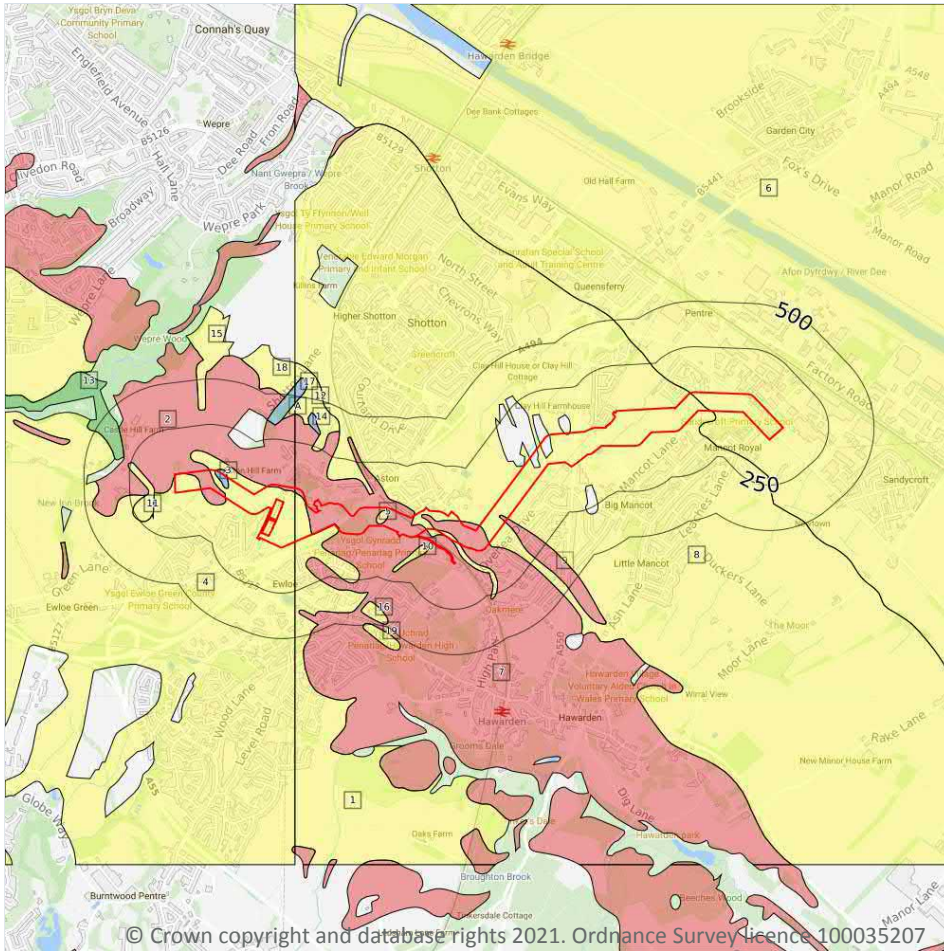
Records within 500m

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



5.1 Superficial aquifer

Records within 500m

21

Aquifer status of groundwater held within superficial geology. Features are displayed on the Hydrogeology map on [page 122](#)

ID	Location	Designation	Description
1	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
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

ID	Location	Designation	Description
3	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
4	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
5	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
6	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
7	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
8	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
9	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
10	34m S	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
11	114m W	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
12	228m N	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
13	297m W	Unknown	Unknown
14	319m N	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
A	328m N	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
15	331m N	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
A	360m N	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

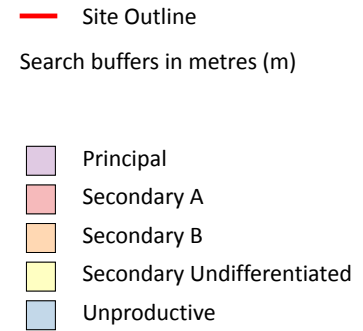
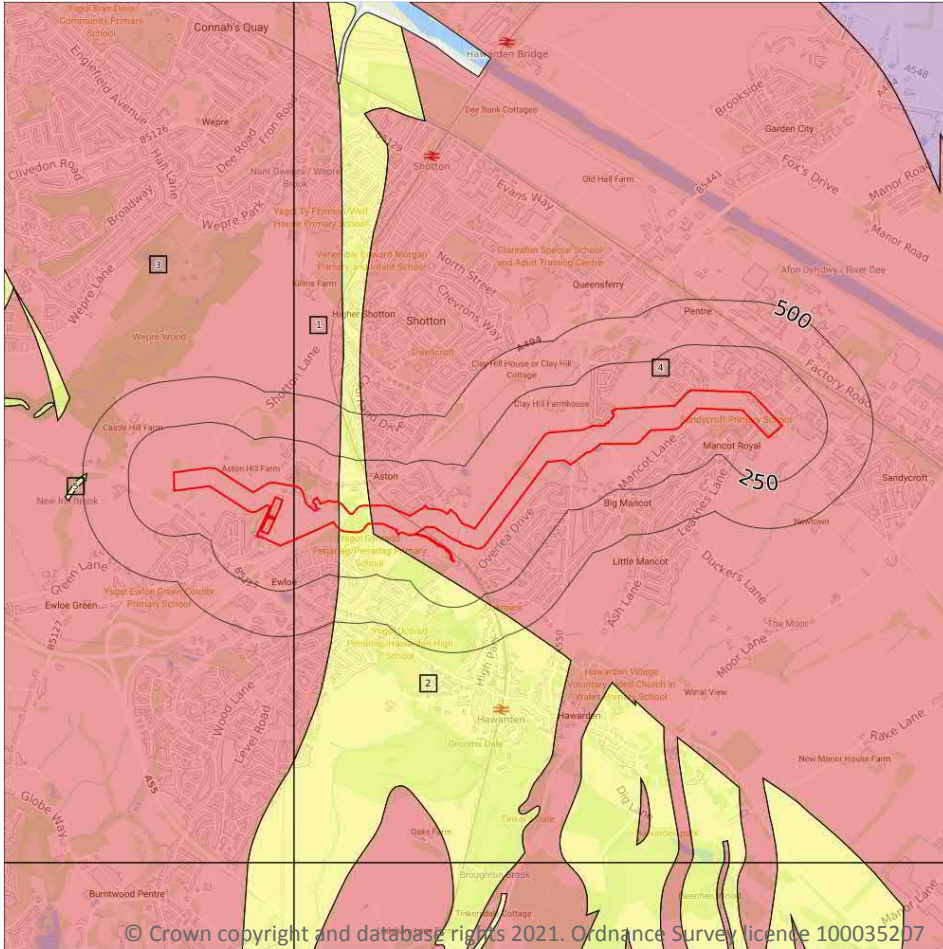


ID	Location	Designation	Description
16	375m S	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
17	460m N	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
18	485m N	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
19	492m S	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

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



Bedrock aquifer



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5.2 Bedrock aquifer

Records within 500m

5

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on [page 125](#)

ID	Location	Designation	Description
1	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
2	On site	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

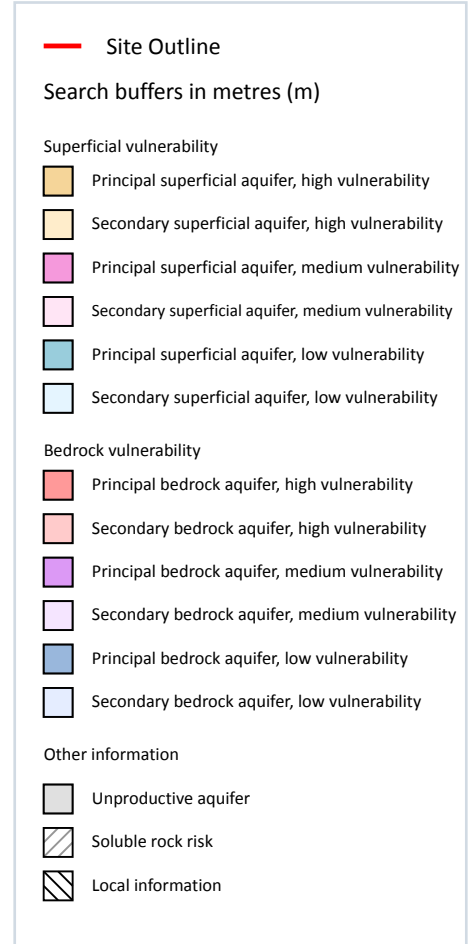
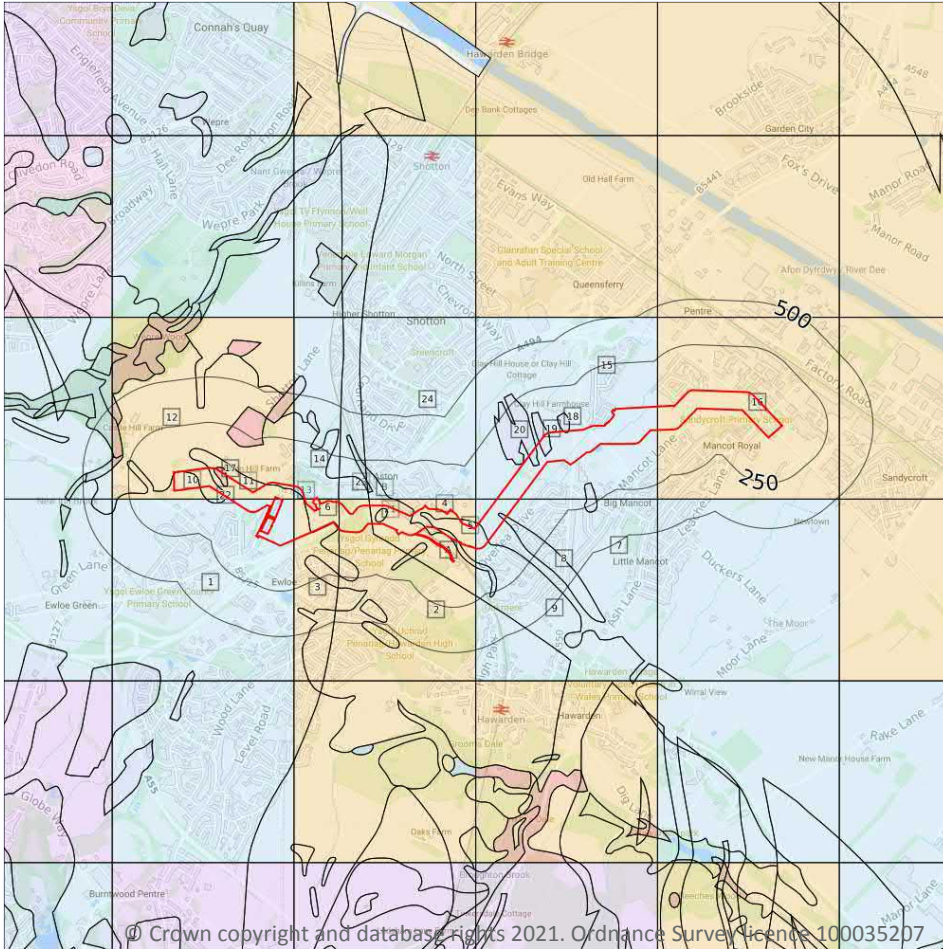


ID	Location	Designation	Description
3	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
4	On site	Secondary 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
5	480m W	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

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

27

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 127**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
2	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
3	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
4	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
5	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
6	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
7	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
8	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
9	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
10	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: <90% Recharge potential: High	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
11	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: <90% Recharge potential: High	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
12	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: <90% Recharge potential: High	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
13	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
14	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
15	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
16	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
17	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: <90% Recharge potential: High	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
18	On site	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
19	On site	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
20	On site	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
21	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
A	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
22	14m SW	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
23	17m N	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
A	34m S	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300- 550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
B	35m N	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300- 550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
24	36m N	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300- 550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low 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

0

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

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

5.5 Groundwater vulnerability- local information

Records on site

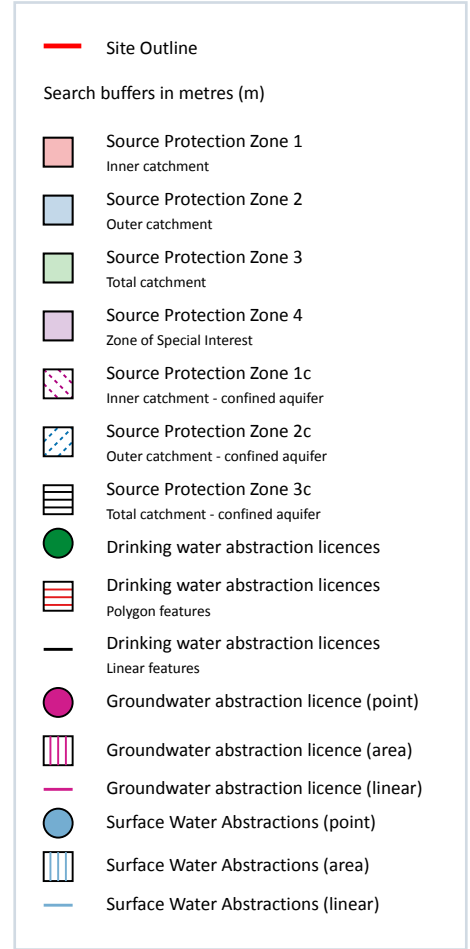
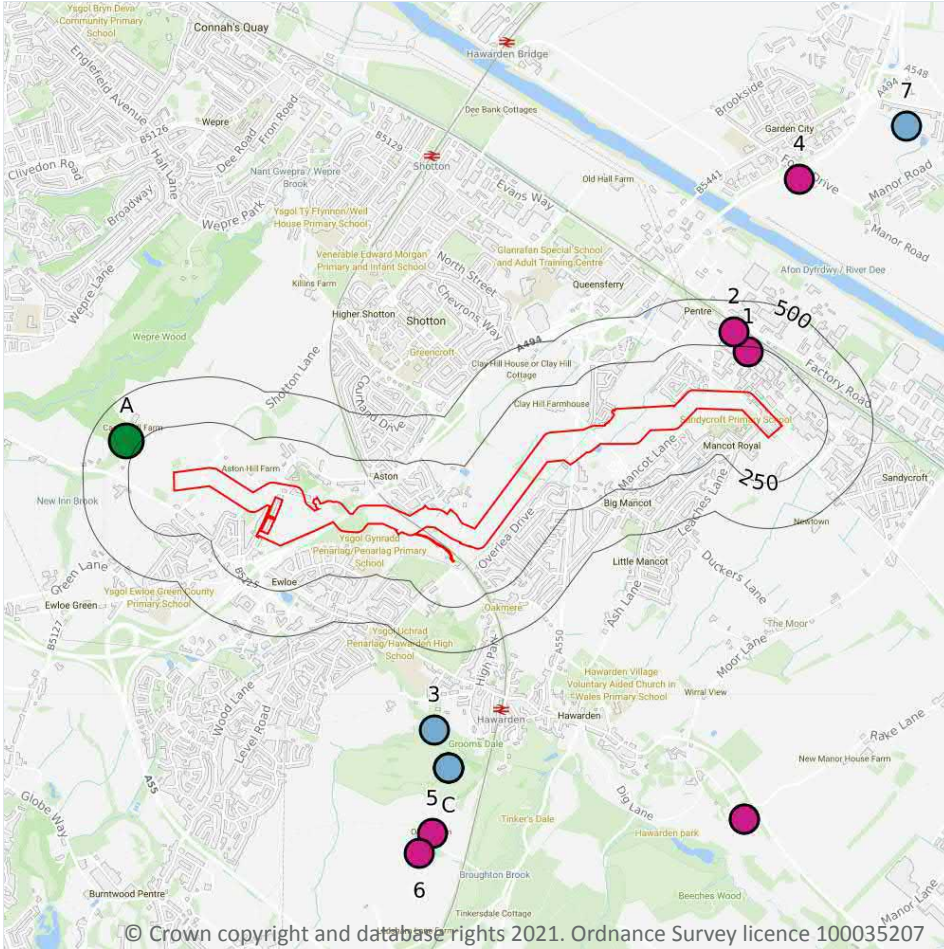
0

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



5.6 Groundwater abstractions

Records within 2000m

10

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.

Features are displayed on the Abstractions and Source Protection Zones map on **page 133**

ID	Location	Details	
1	222m N	Status: Historical Licence No: 24/67/10/0106 Details: Process water Direct Source: EAW Groundwater Point: WELL B Data Type: Point Name: Knauf Insulation Ltd Easting: 332500 Northing: 367810	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 15/12/1983 Expiry Date: - Issue No: 103 Version Start Date: 01/01/2003 Version End Date: -
A	311m NW	Status: Historical Licence No: 24/67/10/0126 Details: Water Bottling Direct Source: EAW Groundwater Point: 50M DEEP, 200MM DIA. BOREHOLE Data Type: Point Name: Grant-Findlay Easting: 329080 Northing: 367320	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 07/06/1996 Expiry Date: - Issue No: 100 Version Start Date: 07/06/1996 Version End Date: -
A	311m NW	Status: Historical Licence No: 24/67/10/0136 Details: Water Bottling Direct Source: EAW Groundwater Point: 50M DEEP, 200MM DIA. BOREHOLE Data Type: Point Name: Grant-Findlay Easting: 329080 Northing: 367320	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 17/07/2001 Expiry Date: 17/07/2004 Issue No: 1 Version Start Date: 01/04/2003 Version End Date: -
2	329m N	Status: Historical Licence No: 24/67/10/0106 Details: Process water Direct Source: EAW Groundwater Point: WELL A Data Type: Point Name: Knauf Insulation Ltd Easting: 332420 Northing: 367920	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 15/12/1983 Expiry Date: - Issue No: 103 Version Start Date: 01/01/2003 Version End Date: -
-	1074m E	Status: Historical Licence No: 24/67/10/0112 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: EAW Groundwater Point: BOREHOLE Data Type: Point Name: Archimica Limited Easting: 333760 Northing: 367420	Annual Volume (m ³): 119814 Max Daily Volume (m ³): 327.36 Original Application No: - Original Start Date: 16/08/1988 Expiry Date: 31/03/2008 Issue No: 106 Version Start Date: 01/07/2006 Version End Date: -



ID	Location	Details	
-	1074m E	Status: Historical Licence No: 24/67/10/0154 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: EAW Groundwater Point: BOREHOLE Data Type: Point Name: Archimica Limited Easting: 333760 Northing: 367420	Annual Volume (m ³): 119814 Max Daily Volume (m ³): 327.36 Original Application No: - Original Start Date: 01/04/2008 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 01/04/2008 Version End Date: -
4	1205m N	Status: Historical Licence No: 24/67/10/0046 Details: General Farming & Domestic Direct Source: EAW Groundwater Point: BOREHOLE Data Type: Point Name: Jones Balers Ltd Easting: 332780 Northing: 368760	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 24/02/1967 Expiry Date: - Issue No: 100 Version Start Date: 06/06/1967 Version End Date: -
-	1313m E	Status: Historical Licence No: 24/67/10/0141 Details: Spray Irrigation - Direct Direct Source: EAW Groundwater Point: REACH A - A ON THE SEALAND MAIN DRAIN Data Type: Line Name: WT Banks & Co. (Farming) Ltd. Easting: 333960 Northing: 367720	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 01/08/2003 Expiry Date: 31/03/2014 Issue No: 1 Version Start Date: 01/08/2003 Version End Date: -
5	1499m S	Status: Historical Licence No: 24/67/10/0020 Details: General Farming & Domestic Direct Source: EAW Groundwater Point: WELL B Data Type: Point Name: Newport Brothers Easting: 330760 Northing: 365160	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 25/10/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/10/1966 Version End Date: -
6	1614m S	Status: Historical Licence No: 24/67/10/0020 Details: General Farming & Domestic Direct Source: EAW Groundwater Point: WELL A Data Type: Point Name: Newport Brothers Easting: 330690 Northing: 365051	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 25/10/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/10/1966 Version End Date: -

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



5.7 Surface water abstractions

Records within 2000m
12

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 133**

ID	Location	Details	
3	931m S	Status: Historical Licence No: 24/67/10/0065 Details: Spray Irrigation - Direct Direct Source: EAW Surface Water Point: GROOMSDALE BROOK Data Type: Point Name: Hawarden Golf Club Ltd Easting: 330770 Northing: 365730	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 06/06/1967 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2004 Version End Date: -
C	1135m S	Status: Historical Licence No: 24/67/10/0065 Details: Spray Irrigation - Direct Direct Source: EAW Surface Water Point: SURFACE WATER RESERVOIR AT HAWARDEN GOLF CLUB Data Type: Point Name: Hawarden Golf Club Ltd Easting: 330850 Northing: 365520	Annual Volume (m ³): 2000 Max Daily Volume (m ³): 30 Original Application No: - Original Start Date: 06/06/1967 Expiry Date: - Issue No: 102 Version Start Date: 19/10/2005 Version End Date: -
C	1135m S	Status: Historical Licence No: 24/67/10/0162 Details: Spray Irrigation - Direct Direct Source: EAW Surface Water Point: SURFACE WATER RESERVOIR AT HAWARDEN GOLF CLUB Data Type: Point Name: Hawarden Golf Club Ltd Easting: 330850 Northing: 365520	Annual Volume (m ³): 2000 Max Daily Volume (m ³): 30 Original Application No: - Original Start Date: 01/04/2008 Expiry Date: 31/03/2015 Issue No: 2 Version Start Date: 17/05/2010 Version End Date: -
C	1135m S	Status: Historical Licence No: WA/067/0010/014 Details: Spray Irrigation - Direct Direct Source: EAW Surface Water Point: RESERVOIR AT HAWARDEN GOLF CLUB Data Type: Point Name: Hawarden Golf Club Limited Easting: 330850 Northing: 365520	Annual Volume (m ³): 2000 Max Daily Volume (m ³): 30 Original Application No: - Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2015 Version End Date: -



ID	Location	Details	
C	1135m S	Status: Active Licence No: WA/067/0010/014 Details: Spray Irrigation - Direct - High Direct Source: - Point: - Data Type: Point Name: - Easting: 330850 Northing: 365520	Annual Volume (m ³): 2,000 Max Daily Volume (m ³): 172.80 Original Application No: - Original Start Date: 2015-04-01 00:00:00.0000000 Expiry Date: 2027-03-31 00:00:00.0000000 Issue No: - Version Start Date: - Version End Date: -
-	1308m E	Status: Historical Licence No: WA/067/0010/011 Details: Spray Irrigation - Direct Direct Source: EAW Surface Water Point: SEALAND MAIN DRAIN Data Type: Line Name: WT Banks & Co (Farming) Ltd Easting: 333955 Northing: 367720	Annual Volume (m ³): 67962.7 Max Daily Volume (m ³): 1227.42 Original Application No: - Original Start Date: 30/07/2014 Expiry Date: 31/03/2027 Issue No: 2 Version Start Date: 26/11/2014 Version End Date: -
-	1308m E	Status: Active Licence No: WA/067/0010/011 Details: Spray Irrigation - Direct - High Direct Source: - Point: - Data Type: Line Name: - Easting: 333955 Northing: 367720	Annual Volume (m ³): 67,962.70 Max Daily Volume (m ³): 2,727.60 Original Application No: - Original Start Date: 2014-11-26 00:00:00.0000000 Expiry Date: 2027-03-31 00:00:00.0000000 Issue No: - Version Start Date: - Version End Date: -
-	1313m E	Status: Historical Licence No: 24/67/10/0129 Details: Spray Irrigation - Direct Direct Source: EAW Surface Water Point: REACH A TO A AT SEALAND MAIN DRAIN Data Type: Line Name: Banks Easting: 333960 Northing: 367720	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 31/07/1998 Expiry Date: 31/07/2003 Issue No: 100 Version Start Date: 01/04/2001 Version End Date: -
-	1313m E	Status: Historical Licence No: 24/67/10/0141 Details: Spray Irrigation - Direct Direct Source: EAW Surface Water Point: REACH A-A ON THE SEALAND MAIN DRAIN Data Type: Line Name: WT Banks & Co (Farming) Ltd Easting: 333960 Northing: 367720	Annual Volume (m ³): 104558 Max Daily Volume (m ³): 1227.42 Original Application No: - Original Start Date: 01/08/2003 Expiry Date: 31/03/2014 Issue No: 2 Version Start Date: 19/07/2010 Version End Date: -



ID	Location	Details	
7	1699m NE	Status: Historical Licence No: 24/67/10/0103 Details: Spray Irrigation - Direct Direct Source: EAW Surface Water Point: MANOR DRAIN POINT B Data Type: Point Name: Jones Balers Ltd Easting: 333370 Northing: 369050	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 17/11/1987 Expiry Date: - Issue No: 100 Version Start Date: 27/04/1989 Version End Date: -
-	1711m E	Status: Historical Licence No: 24/67/10/0103 Details: Spray Irrigation - Direct Direct Source: EAW Surface Water Point: SEALAND MAIN DRAIN POINT C Data Type: Point Name: Jones Balers Ltd Easting: 334300 Northing: 367970	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 17/11/1987 Expiry Date: - Issue No: 100 Version Start Date: 27/04/1989 Version End Date: -
-	1991m NE	Status: Historical Licence No: 24/67/10/0103 Details: Spray Irrigation - Direct Direct Source: EAW Surface Water Point: MANOR DRAIN POINT B Data Type: Point Name: Jones Balers Ltd Easting: 334300 Northing: 368570	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 17/11/1987 Expiry Date: - Issue No: 100 Version Start Date: 27/04/1989 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m

2

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.

Features are displayed on the Abstractions and Source Protection Zones map on **page 133**



ID	Location	Details	
A	311m NW	Status: Historical Licence No: 24/67/10/0126 Details: Water Bottling Direct Source: EAW Groundwater Point: 50M DEEP, 200MM DIA. BOREHOLE Data Type: Point Name: Grant-Findlay Easting: 329080 Northing: 367320	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 07/06/1996 Expiry Date: - Issue No: 100 Version Start Date: 07/06/1996 Version End Date: -
A	311m NW	Status: Historical Licence No: 24/67/10/0136 Details: Water Bottling Direct Source: EAW Groundwater Point: 50M DEEP, 200MM DIA. BOREHOLE Data Type: Point Name: Grant-Findlay Easting: 329080 Northing: 367320	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 17/07/2001 Expiry Date: 17/07/2004 Issue No: 1 Version Start Date: 01/04/2003 Version End Date: -

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

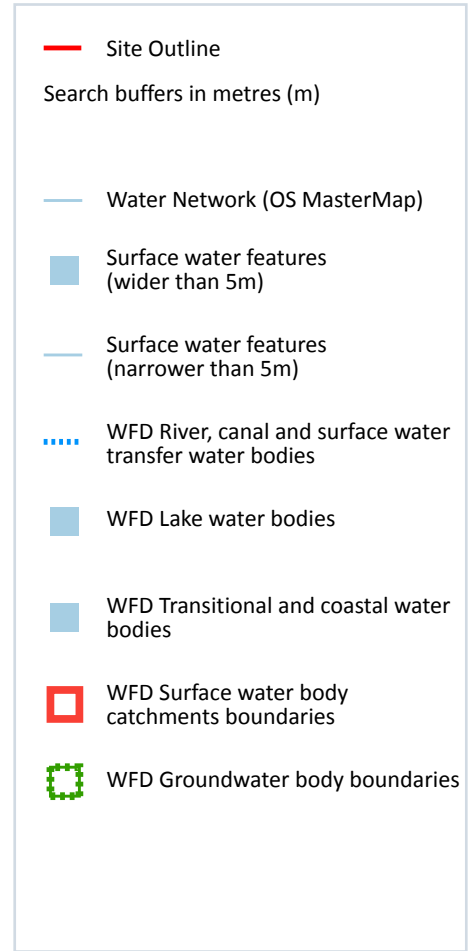
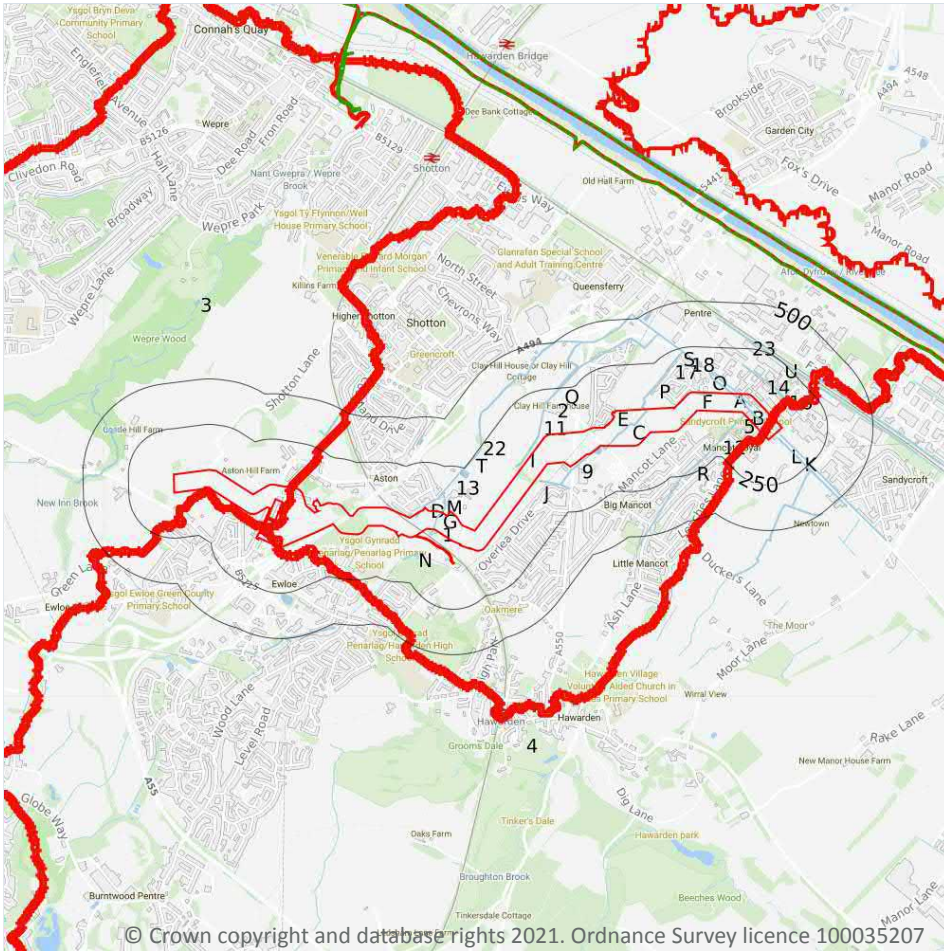
0

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



6.1 Water Network (OS MasterMap)

Records within 250m

59

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 140**

ID	Location	Type of water feature	Ground level	Permanence	Name
5	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.	Underground	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)	-
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)	-
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	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
G	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
9	7m S	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
I	18m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	18m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	21m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	22m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	22m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	25m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
11	29m NW	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
L	29m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	33m NE	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
J	49m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	75m S	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
12	76m S	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
O	79m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
J	82m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	93m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	96m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	97m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
13	112m N	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
J	112m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
14	113m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
O	119m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	124m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	124m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	125m S	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
N	125m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	133m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
16	137m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	138m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
O	141m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
O	142m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
17	164m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
Q	168m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
18	169m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	194m SE	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
R	207m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	213m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
S	230m N	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
T	239m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
S	241m N	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
Q	241m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
U	244m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
22	245m NW	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
23	249m NE	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

25

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 140**

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site

3

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 140**



ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
2	On site	Coastal catchment	Not part of a river WB catchment	166	Dee Estuary	Dee
3	On site	River WB catchment	Wepre Brook	GB111067056880	Dee Estuary	Dee
4	On site	River WB catchment	Sandycroft Drain	GB111067052160	Dee Estuary	Dee

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

6.4 WFD Surface water bodies

Records identified

2

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.

Features are displayed on the Hydrology map on **page 140**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	621m NW	River	Wepre Brook	GB111067056880	Moderate	Good	Moderate	2016
-	843m SE	River	Sandycroft Drain	GB111067052160	Moderate	Good	Moderate	2016

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.

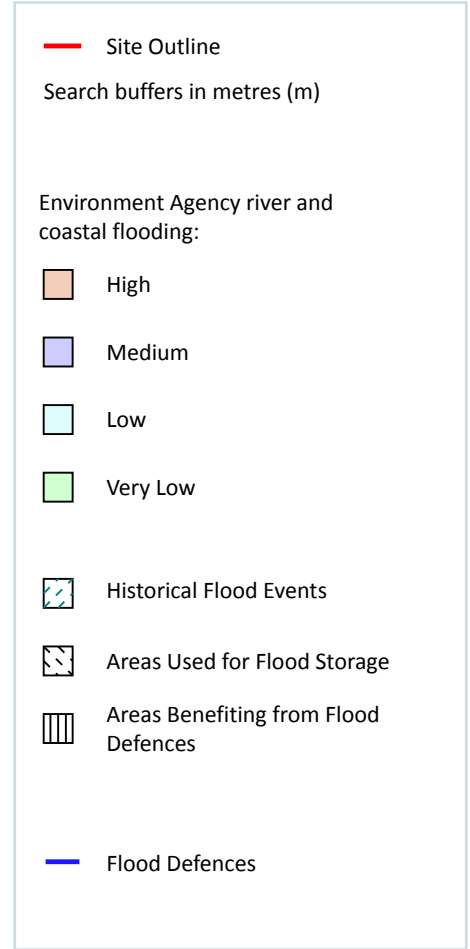
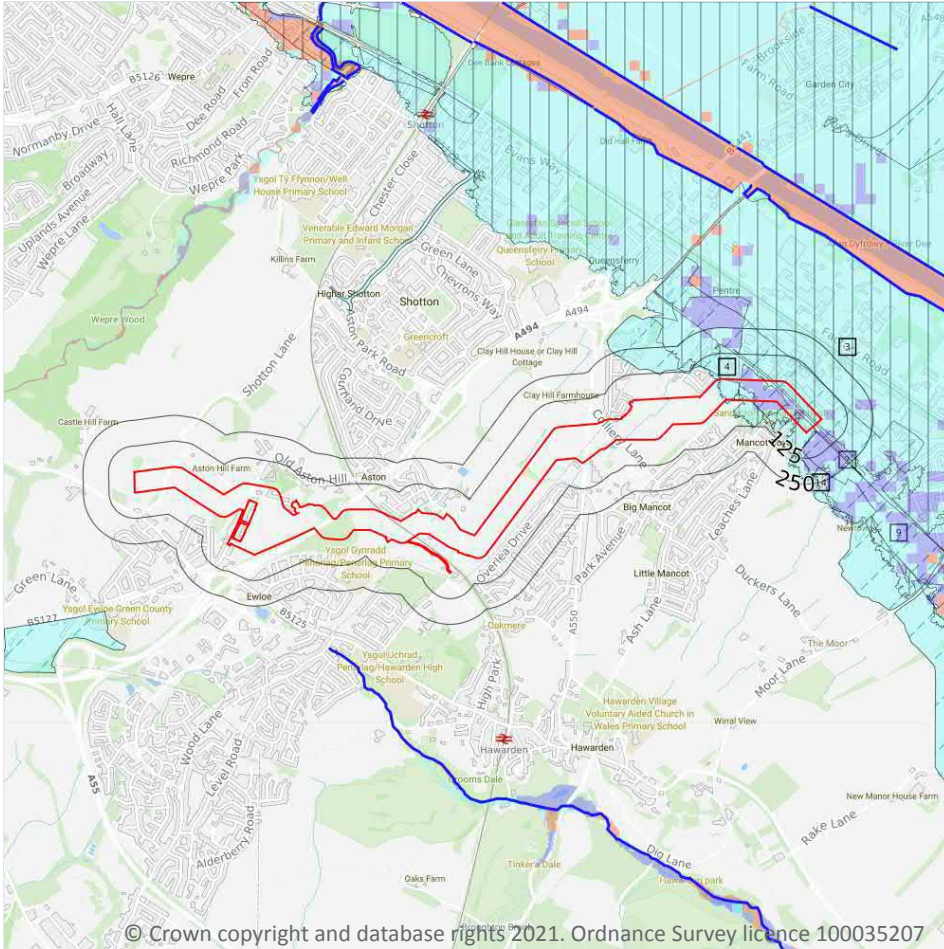
Features are displayed on the Hydrology map on **page 140**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
1	On site	Dee Carboniferous Coal Measures	GB41102G204800	Poor	Poor	Good	2016

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



7 River and coastal flooding



7.1 Risk of Flooding from Rivers and Sea (RoFRaS)

Records within 50m

5

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition; 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).

Features are displayed on the River and coastal flooding map on **page 147**

Distance	RoFRaS flood risk
On site	Medium
0 - 50m	Medium



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

7.2 Historical Flood Events

Records within 250m

2

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.

Features are displayed on the River and coastal flooding map on **page 147**

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
2	On site	Queensferry Drain September 1976	1976-09-26 1976-09-27	Main river	Channel capacity exceeded (no raised defences)	Fluvial
9	30m SE	Sandycroft / Hawarden Airport 1964 01	1964-01-01 1964-01-01	Main river	Channel capacity exceeded (no raised defences)	Fluvial

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

3

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.

Features are displayed on the River and coastal flooding map on **page 147**

ID	Location	
3	On site	Area benefiting from flood defences
4	On site	Area benefiting from flood defences



ID	Location	
14	180m S	Area benefiting from flood defences

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

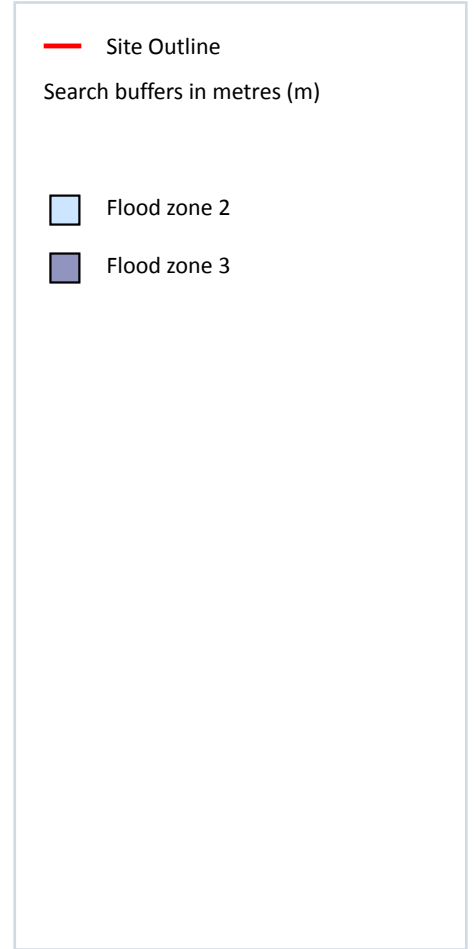
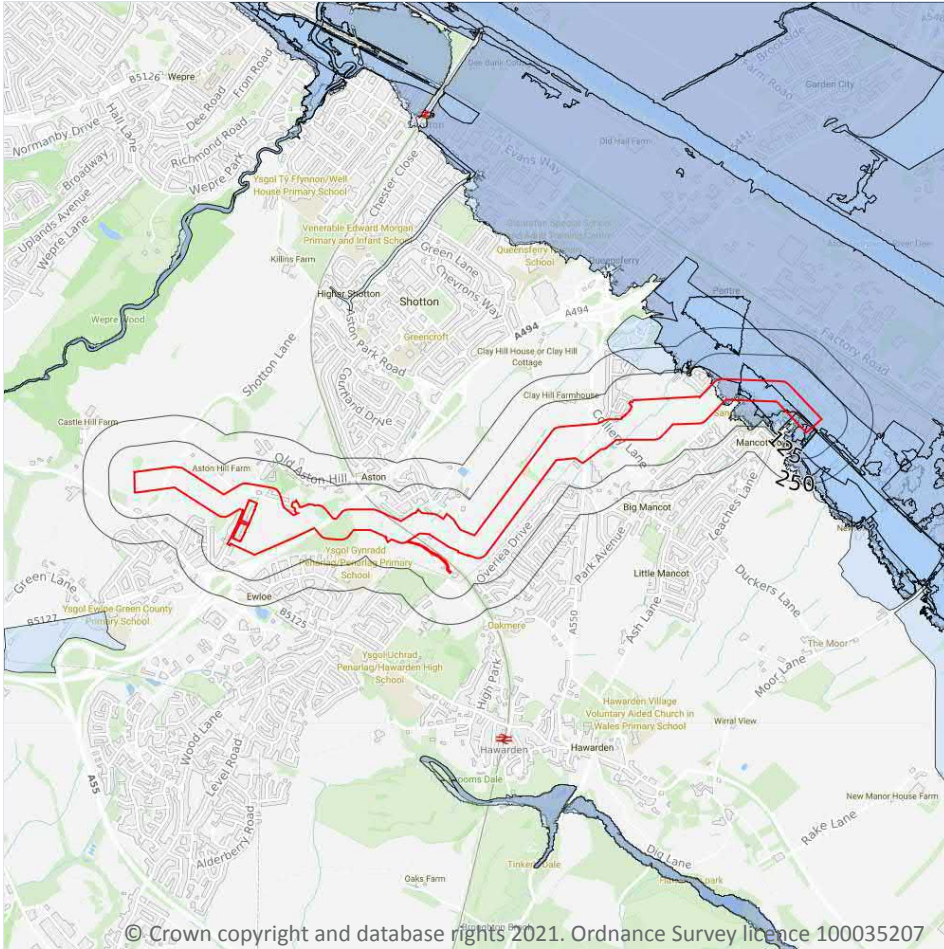
7.5 Flood Storage Areas

Records within 250m	0
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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

1

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.

Features are displayed on the River and coastal flooding map on **page 147**

Location	Type
----------	------

On site **Zone 2 - (Fluvial /Tidal Models)**

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



Contact us with any questions at:

08444 159 000

Date: 31 August 2021



7.7 Flood Zone 3

Records within 50m

1

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.

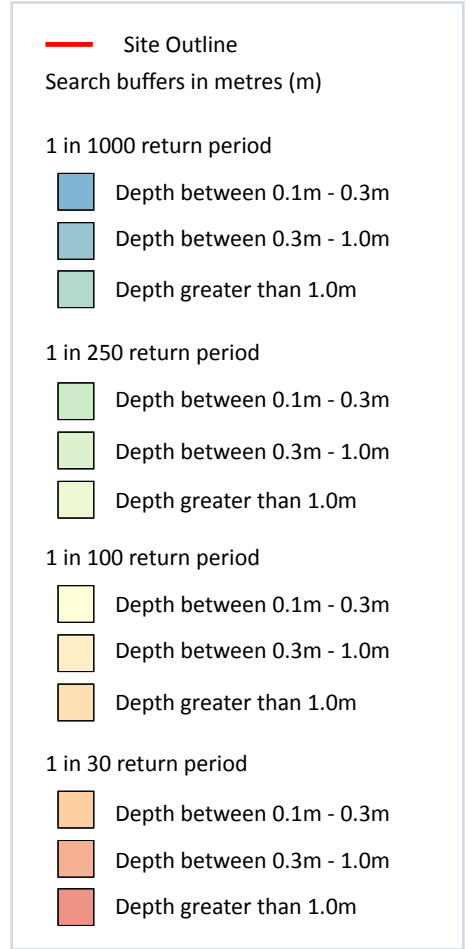
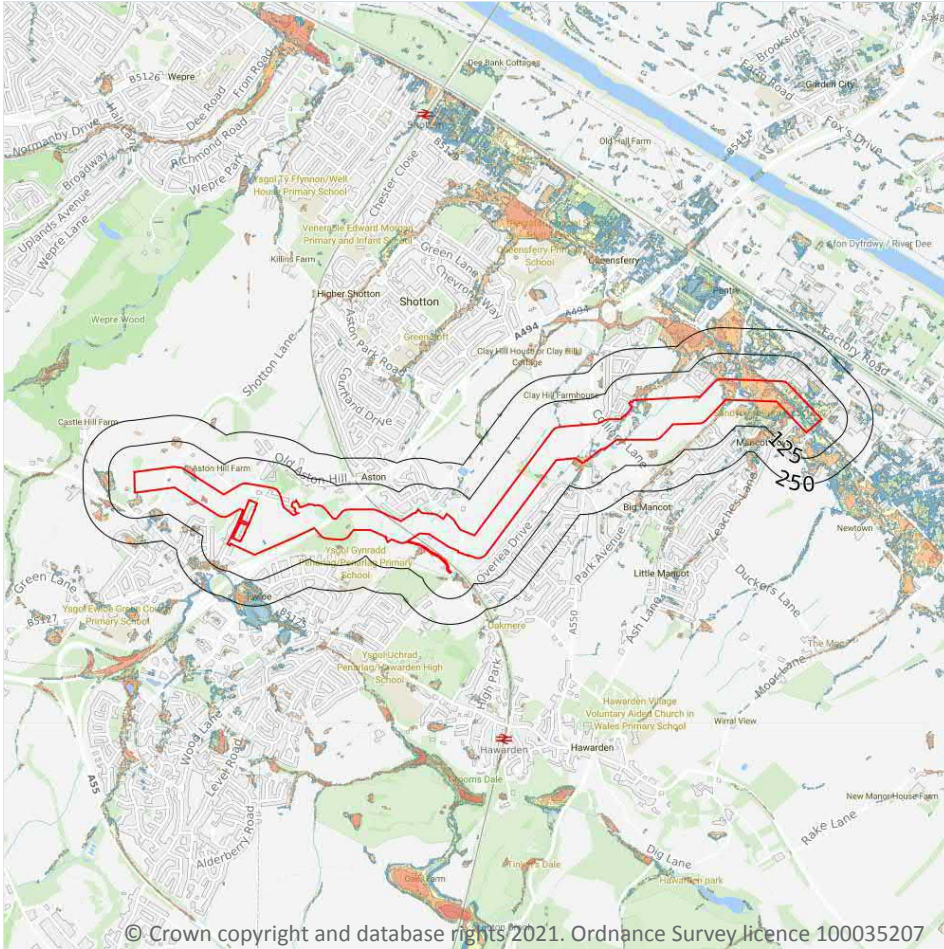
Features are displayed on the River and coastal flooding map on **page 147**

Location	Type
On site	Zone 3 - (Fluvial Models)

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



8 Surface water flooding



8.1 Surface water flooding

Highest risk on site

1 in 30 year, Greater than 1.0m

Highest risk within 50m

1 in 30 year, Greater than 1.0m

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 152**

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.

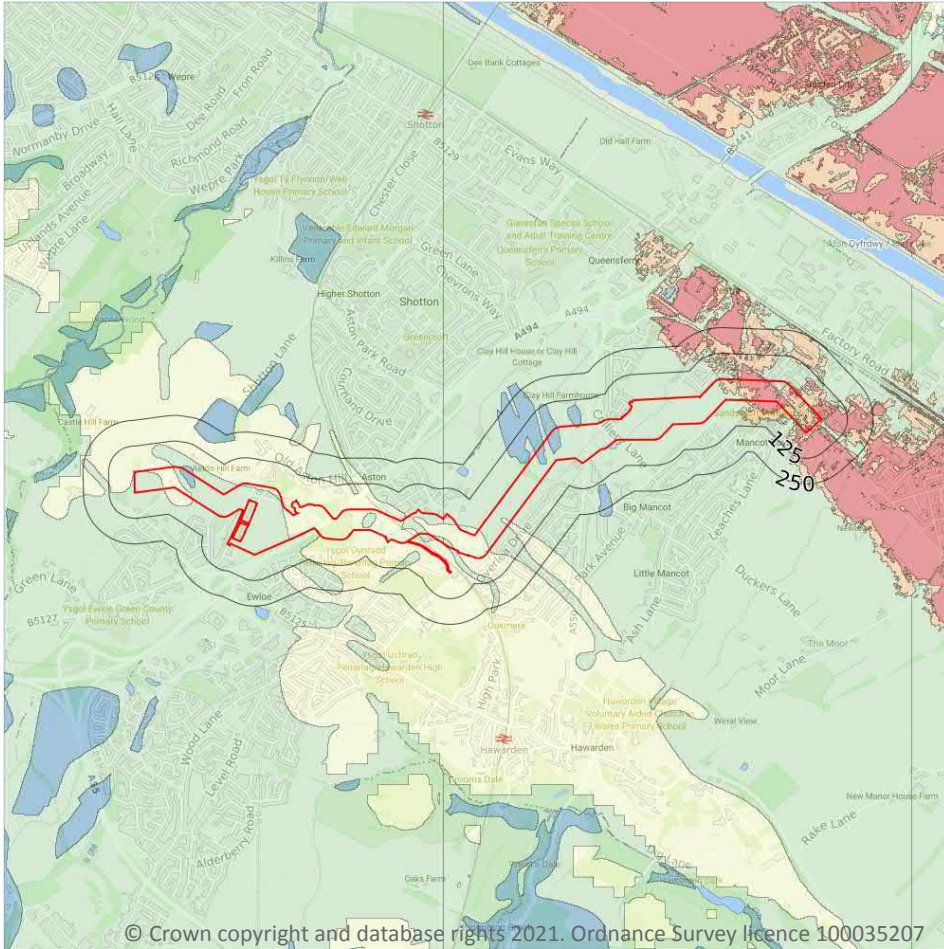
The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Greater than 1.0m
1 in 250 year	Greater than 1.0m
1 in 100 year	Greater than 1.0m
1 in 30 year	Greater than 1.0m

This data is sourced from Ambiental Risk Analytics.



9 Groundwater flooding



9.1 Groundwater flooding

Highest risk on site

High

Highest risk within 50m

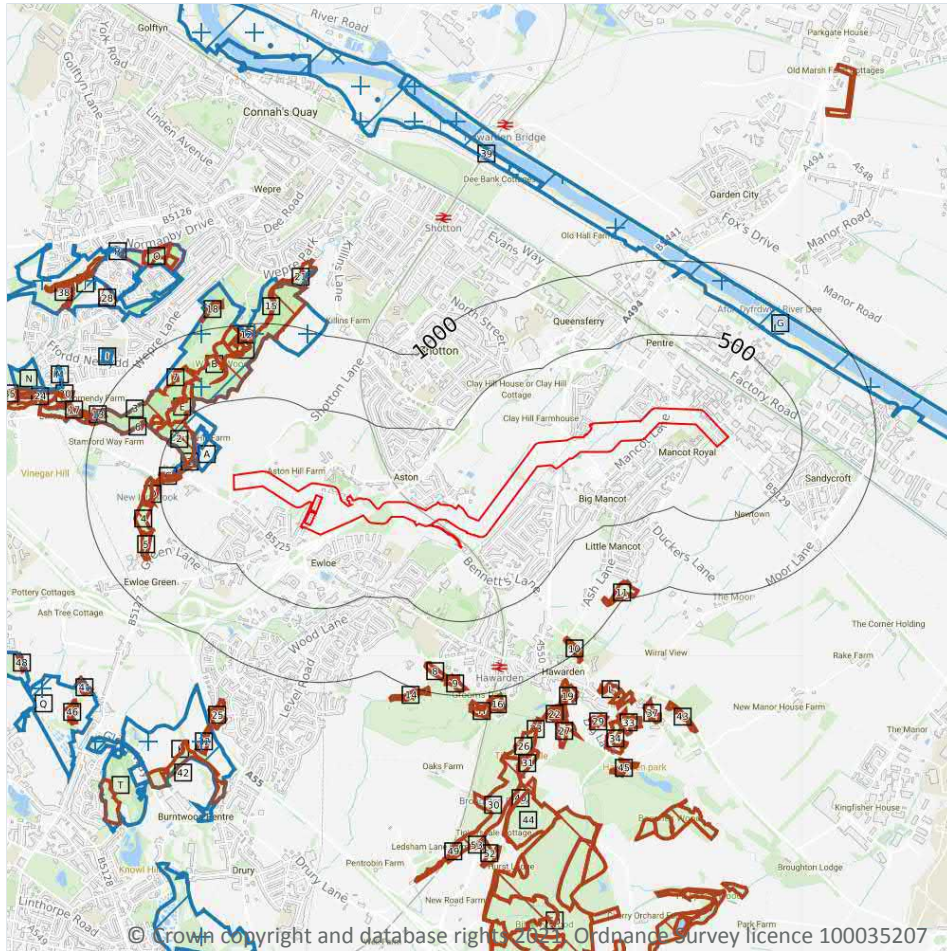
High

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 154**

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- Sites of Special Scientific Interest (SSSI)
- + Conserved wetland sites (Ramsar sites)
- + Special Areas of Conservation (SAC)
- Special Protection Areas (SPA)
- + Local Nature Reserves (LNR)
- / Designated Ancient Woodland
- / Green Belt

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

14

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 155**

ID	Location	Name	Data source
A	174m NW	Connah's Quay Ponds And Woodland	Natural Resources Wales

ID	Location	Name	Data source
B	257m W	Connah's Quay Ponds And Woodland	Natural Resources Wales
G	689m NE	Afon Dyfrdwy (River Dee)	Natural Resources Wales
I	1132m NW	Connah's Quay Ponds And Woodland	Natural Resources Wales
J	1248m NW	Connah's Quay Ponds And Woodland	Natural Resources Wales
K	1282m SW	Buckley Claypits And Commons	Natural Resources Wales
M	1300m NW	Connah's Quay Ponds And Woodland	Natural Resources Wales
N	1314m NW	Connah's Quay Ponds And Woodland	Natural Resources Wales
P	1626m N	Dee Estuary / Aber Afon Dyfrdwy	Natural Resources Wales
Q	1639m SW	Buckley Claypits And Commons	Natural Resources Wales
R	1660m NW	Connah's Quay Ponds And Woodland	Natural Resources Wales
R	1723m NW	Connah's Quay Ponds And Woodland	Natural Resources Wales
-	1730m SW	Buckley Claypits And Commons	Natural Resources Wales
T	1873m SW	Buckley Claypits And Commons	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

1

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.

Features are displayed on the Environmental designations map on **page 155**



ID	Location	Site	Details
P	1626m N	Name: The Dee Estuary (Wales) Site status: - Data source: Natural Resources Wales	<p>Overview: The Dee is a large funnel-shaped sheltered estuary and is one of the top ten estuaries in the UK for wintering and passage waterfowl populations. The estuary supports internationally important numbers of waterfowl and waders. The estuary is an accreting system and the extent of saltmarsh continues to expand as the estuary seeks to achieve a new equilibrium situation following large-scale historical land-claim at the head of the estuary which commenced in the 1730s. Nevertheless, the estuary still supports extensive areas of intertidal sand and mudflats as well as saltmarsh. Where land-claim has not occurred, the saltmarshes grade into transitional brackish and freshwater swamp vegetation, on the upper shore. The site includes the three sandstone islands of Hilbre with their important cliff vegetation and maritime heathland/grassland, the sand dune system between the Point of Ayr and Prestatyn in Wales and Red Rocks in England, various Welsh coastal fields historically reclaimed from the estuary but used by the Dee Estuary wintering waterfowl populations, freshwater lagoons and reedbeds at Shotton supporting the largest common tern breeding colony in Wales and freshwater lagoons at Inner Marsh Farm used by waterfowl throughout the year but particularly in winter. The two shorelines of the estuary show a marked contrast between the industrialised usage of the coastal belt in Wales and residential and recreational usage in England.</p> <p>Ramsar criteria: Ramsar criterion 1 Extensive intertidal mud and sand flats (20 km by 9 km) with large expanses of saltmarsh towards the head of the estuary. Habitats Directive Annex I features present on the pSAC include: H1130 Estuaries H1140 Mudflats and sandflats not covered by seawater at low tide H1210 Annual vegetation of drift lines H1230 Vegetated sea cliffs of the Atlantic and Baltic coasts H1310 Salicornia and other annuals colonising mud and sand H1330 Atlantic salt meadows (<i>Glauco-Puccinellietalia maritima</i>) H2110 Embryonic shifting dunes H2120 Shifting dunes along the shoreline with <i>Ammophila arenaria</i> ("white dunes") H2130 Fixed dunes with herbaceous vegetation ("grey dunes") H2190 Humid dune slacks Criterion 2, it supports breeding colonies of the vulnerable Natterjack Toad, <i>Epidalea calamita</i></p>

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m	14
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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 155**

ID	Location	Name	Features of interest	Habitat description	Data source
A	174m NW	Deeside and Buckley Newt sites	Western acidic oak woodland; Alder woodland on floodplains; Great crested newt; Bullhead.	Coniferous woodland; Broad-leaved deciduous woodland; Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens; Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Dry grassland, Steppes; Improved grassland; Heath, Scrub, Maquis and Garrigue, Phygrana; Mixed woodland	Natural Resources Wales
B	257m W	Deeside and Buckley Newt sites	Western acidic oak woodland; Alder woodland on floodplains; Great crested newt; Bullhead.	Coniferous woodland; Broad-leaved deciduous woodland; Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens; Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Dry grassland, Steppes; Improved grassland; Heath, Scrub, Maquis and Garrigue, Phygrana; Mixed woodland	Natural Resources Wales
G	689m NE	River Dee and Bala Lake / Afon Dyfrdwy a Llyn Tegid (Wales)	Rivers with floating vegetation often dominated by water-crowfoot; Mixed woodland on base-rich soils associated with rocky slopes; Western acidic oak woodland; Alder woodland on floodplains; Sea lamprey; Brook lamprey; River lamprey; Twaite shad; Atlantic salmon; Bullhead; Freshwater pearl mussel; Otter; Floating water-plantain.	Broad-leaved deciduous woodland; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Improved grassland; Inland water bodies (Standing water, Running water); Salt marshes, Salt pastures, Salt steppes	Natural Resources Wales



ID	Location	Name	Features of interest	Habitat description	Data source
I	1132m NW	Deeside and Buckley Newt sites	Western acidic oak woodland; Alder woodland on floodplains; Great crested newt; Bullhead.	Coniferous woodland; Broad-leaved deciduous woodland; Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens; Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Dry grassland, Steppes; Improved grassland; Heath, Scrub, Maquis and Garrigue, Phygrana; Mixed woodland	Natural Resources Wales
J	1248m NW	Deeside and Buckley Newt sites	Western acidic oak woodland; Alder woodland on floodplains; Great crested newt; Bullhead.	Coniferous woodland; Broad-leaved deciduous woodland; Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens; Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Dry grassland, Steppes; Improved grassland; Heath, Scrub, Maquis and Garrigue, Phygrana; Mixed woodland	Natural Resources Wales
K	1282m SW	Deeside and Buckley Newt sites	Western acidic oak woodland; Alder woodland on floodplains; Great crested newt; Bullhead.	Coniferous woodland; Broad-leaved deciduous woodland; Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens; Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Dry grassland, Steppes; Improved grassland; Heath, Scrub, Maquis and Garrigue, Phygrana; Mixed woodland	Natural Resources Wales



ID	Location	Name	Features of interest	Habitat description	Data source
M	1300m NW	Deeside and Buckley Newt sites	Western acidic oak woodland; Alder woodland on floodplains; Great crested newt; Bullhead.	Coniferous woodland; Broad-leaved deciduous woodland; Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens; Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Dry grassland, Steppes; Improved grassland; Heath, Scrub, Maquis and Garrigue, Phygrana; Mixed woodland	Natural Resources Wales
N	1314m NW	Deeside and Buckley Newt sites	Western acidic oak woodland; Alder woodland on floodplains; Great crested newt; Bullhead.	Coniferous woodland; Broad-leaved deciduous woodland; Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens; Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Dry grassland, Steppes; Improved grassland; Heath, Scrub, Maquis and Garrigue, Phygrana; Mixed woodland	Natural Resources Wales
P	1626m N	Dee Estuary / Aber Dyfrdwy (Wales)	Estuaries; Intertidal mudflats and sandflats; Lagoons; Annual vegetation of drift lines; Vegetated sea cliffs; Glasswort and other annuals colonising mud and sand; Cord-grass swards; Atlantic salt meadows; Shifting dunes; Shifting dunes with marram; Dune grassland; Humid dune slacks; Dry heaths; Sea lamprey; River lamprey; Twaite shad; Otter; Grey seal; Petalwort.	Shingle, Sea cliffs, Islets; Salt marshes, Salt pastures, Salt steppes; Humid grassland, Mesophile grassland; Improved grassland; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Bogs, Marshes, Water fringed vegetation, Fens; Broad-leaved deciduous woodland; Coastal sand dunes, Sand beaches, Machair; Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites)	Natural Resources Wales



ID	Location	Name	Features of interest	Habitat description	Data source
Q	1639m SW	Deeside and Buckley Newt sites	Western acidic oak woodland; Alder woodland on floodplains; Great crested newt; Bullhead.	Coniferous woodland; Broad-leaved deciduous woodland; Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens; Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Dry grassland, Steppes; Improved grassland; Heath, Scrub, Maquis and Garrigue, Phygrana; Mixed woodland	Natural Resources Wales
R	1660m NW	Deeside and Buckley Newt sites	Western acidic oak woodland; Alder woodland on floodplains; Great crested newt; Bullhead.	Coniferous woodland; Broad-leaved deciduous woodland; Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens; Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Dry grassland, Steppes; Improved grassland; Heath, Scrub, Maquis and Garrigue, Phygrana; Mixed woodland	Natural Resources Wales
R	1723m NW	Deeside and Buckley Newt sites	Western acidic oak woodland; Alder woodland on floodplains; Great crested newt; Bullhead.	Coniferous woodland; Broad-leaved deciduous woodland; Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens; Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Dry grassland, Steppes; Improved grassland; Heath, Scrub, Maquis and Garrigue, Phygrana; Mixed woodland	Natural Resources Wales



ID	Location	Name	Features of interest	Habitat description	Data source
-	1730m SW	Deeside and Buckley Newt sites	Western acidic oak woodland; Alder woodland on floodplains; Great crested newt; Bullhead.	Coniferous woodland; Broad-leaved deciduous woodland; Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens; Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Dry grassland, Steppes; Improved grassland; Heath, Scrub, Maquis and Garrigue, Phygrana; Mixed woodland	Natural Resources Wales
T	1873m SW	Deeside and Buckley Newt sites	Western acidic oak woodland; Alder woodland on floodplains; Great crested newt; Bullhead.	Coniferous woodland; Broad-leaved deciduous woodland; Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens; Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Dry grassland, Steppes; Improved grassland; Heath, Scrub, Maquis and Garrigue, Phygrana; Mixed woodland	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

1

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.

Features are displayed on the Environmental designations map on **page 155**



ID	Location	Name	Species of interest	Habitat description	Data source
39	1626m N	The Dee Estuary (Wales)	Common shelduck; Eurasian teal; Northern pintail; Eurasian oystercatcher; Grey plover; Red knot; Bar-tailed godwit; Eurasian curlew; Common redshank; Common redshank; Sandwich tern; Common tern; Little tern; Black-tailed godwit; Dunlin	Broad-leaved deciduous woodland; Shingle, Sea cliffs, Islets; Coastal sand dunes, Sand beaches, Machair; Mixed woodland; Dry grassland, Steppes; Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste plac	

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

2

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.

Features are displayed on the Environmental designations map on **page 155**

ID	Location	Name	Data source
28	1411m NW	GATHERING GROUNDS WOODS & LLWYNI POND	Natural Resources Wales
0	1437m N	GATHERING GROUNDS WOODS & LLWYNI POND	Natural Resources Wales

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



10.7 Designated Ancient Woodland

Records within 2000m

73

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 155**

ID	Location	Name	Woodland Type
1	257m W	Unknown	Restored Ancient Woodland Site
2	304m NW	Unknown	Restored Ancient Woodland Site
C	360m W	Unknown	Restored Ancient Woodland Site
C	365m W	Unknown	Restored Ancient Woodland Site
D	465m W	Unknown	Restored Ancient Woodland Site
E	494m NW	Unknown	Plantation on Ancient Woodland Site
F	517m N	Unknown	Restored Ancient Woodland Site
D	544m W	Unknown	Plantation on Ancient Woodland Site
3	567m NW	Unknown	Ancient Semi Natural Woodland
4	568m W	Unknown	Restored Ancient Woodland Site
E	595m NW	Unknown	Restored Ancient Woodland Site
5	626m SW	Unknown	Ancient Semi Natural Woodland
F	643m N	Unknown	Ancient Semi Natural Woodland
6	697m NW	Unknown	Ancient Semi Natural Woodland
7	746m NW	Unknown	Ancient Semi Natural Woodland
8	807m S	Unknown	Ancient Semi Natural Woodland
F	813m N	Unknown	Plantation on Ancient Woodland Site
9	868m S	Unknown	Plantation on Ancient Woodland Site
F	868m N	Unknown	Plantation on Ancient Woodland Site
10	883m SE	Unknown	Restored Ancient Woodland Site
11	885m S	Unknown	Restored Ancient Woodland Site
12	904m N	Unknown	Ancient Semi Natural Woodland



ID	Location	Name	Woodland Type
13	956m NW	Unknown	Ancient Semi Natural Woodland
14	971m S	Unknown	Restored Ancient Woodland Site
15	979m N	Unknown	Ancient Semi Natural Woodland
16	1031m S	Unknown	Ancient Semi Natural Woodland
H	1041m S	Unknown	Ancient Semi Natural Woodland
H	1043m S	Unknown	Plantation on Ancient Woodland Site
17	1055m W	Unknown	Ancient Semi Natural Woodland
18	1061m N	Unknown	Ancient Semi Natural Woodland
19	1116m SE	Unknown	Restored Ancient Woodland Site
20	1217m NW	Unknown	Restored Ancient Woodland Site
21	1232m N	Unknown	Ancient Semi Natural Woodland
22	1244m S	Unknown	Restored Ancient Woodland Site
23	1268m SE	Unknown	Ancient Semi Natural Woodland
24	1273m NW	Unknown	Restored Ancient Woodland Site
25	1285m SW	Unknown	Ancient Semi Natural Woodland
L	1285m SE	Unknown	Plantation on Ancient Woodland Site
26	1318m S	Unknown	Ancient Semi Natural Woodland
27	1339m SE	Unknown	Ancient Semi Natural Woodland
L	1393m SE	Unknown	Plantation on Ancient Woodland Site
29	1429m SE	Unknown	Ancient Semi Natural Woodland
N	1430m W	Unknown	Ancient Semi Natural Woodland
30	1440m S	Unknown	Restored Ancient Woodland Site
L	1440m SE	Unknown	Restored Ancient Woodland Site
31	1455m S	Unknown	Restored Ancient Woodland Site
O	1460m N	Unknown	Ancient Semi Natural Woodland
N	1460m NW	Unknown	Ancient Semi Natural Woodland
32	1468m SW	Unknown	Ancient Semi Natural Woodland
33	1513m SE	Unknown	Restored Ancient Woodland Site



ID	Location	Name	Woodland Type
O	1518m N	Unknown	Restored Ancient Woodland Site
34	1525m SE	Unknown	Ancient Semi Natural Woodland
35	1557m W	Unknown	Restored Ancient Woodland Site
-	1577m W	Unknown	Restored Ancient Woodland Site
37	1577m SE	Unknown	Restored Ancient Woodland Site
38	1591m NW	Unknown	Restored Ancient Woodland Site
O	1611m N	Unknown	Restored Ancient Woodland Site
40	1637m S	Unknown	Plantation on Ancient Woodland Site
41	1639m SW	Unknown	Restored Ancient Woodland Site
42	1644m SW	Unknown	Ancient Semi Natural Woodland
J	1657m NW	Unknown	Restored Ancient Woodland Site
J	1676m NW	Unknown	Restored Ancient Woodland Site
43	1682m SE	Unknown	Ancient Semi Natural Woodland
44	1703m S	Unknown	Plantation on Ancient Woodland Site
45	1766m SE	Unknown	Restored Ancient Woodland Site
46	1783m SW	Unknown	Restored Ancient Woodland Site
-	1821m W	Unknown	Ancient Semi Natural Woodland
48	1827m SW	Unknown	Ancient Semi Natural Woodland
49	1883m S	Unknown	Restored Ancient Woodland Site
50	1898m S	Unknown	Restored Ancient Woodland Site
-	1917m W	Unknown	Ancient Semi Natural Woodland
52	1976m S	Unknown	Restored Ancient Woodland Site
53	1978m S	Unknown	Restored Ancient Woodland Site

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

4

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.

Location	Name	Type	NVZ ID	Status
860m NE	Shotwick Brook NVZ	Surface Water	S708	Existing

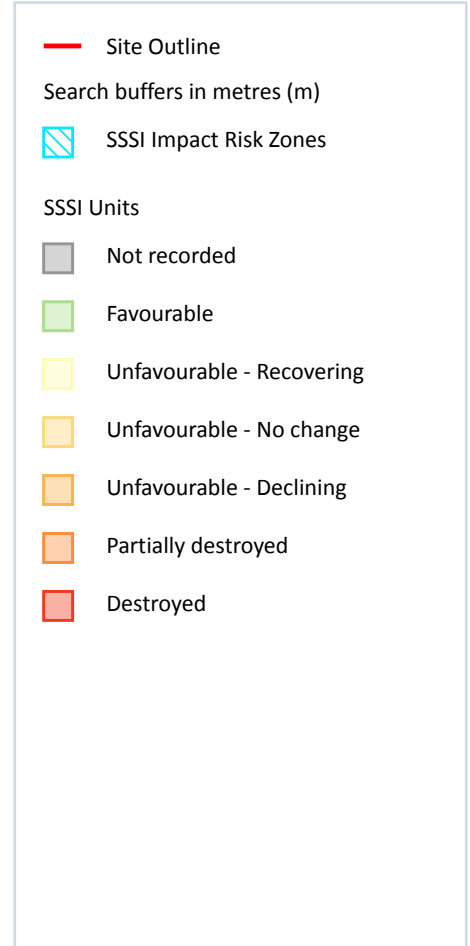
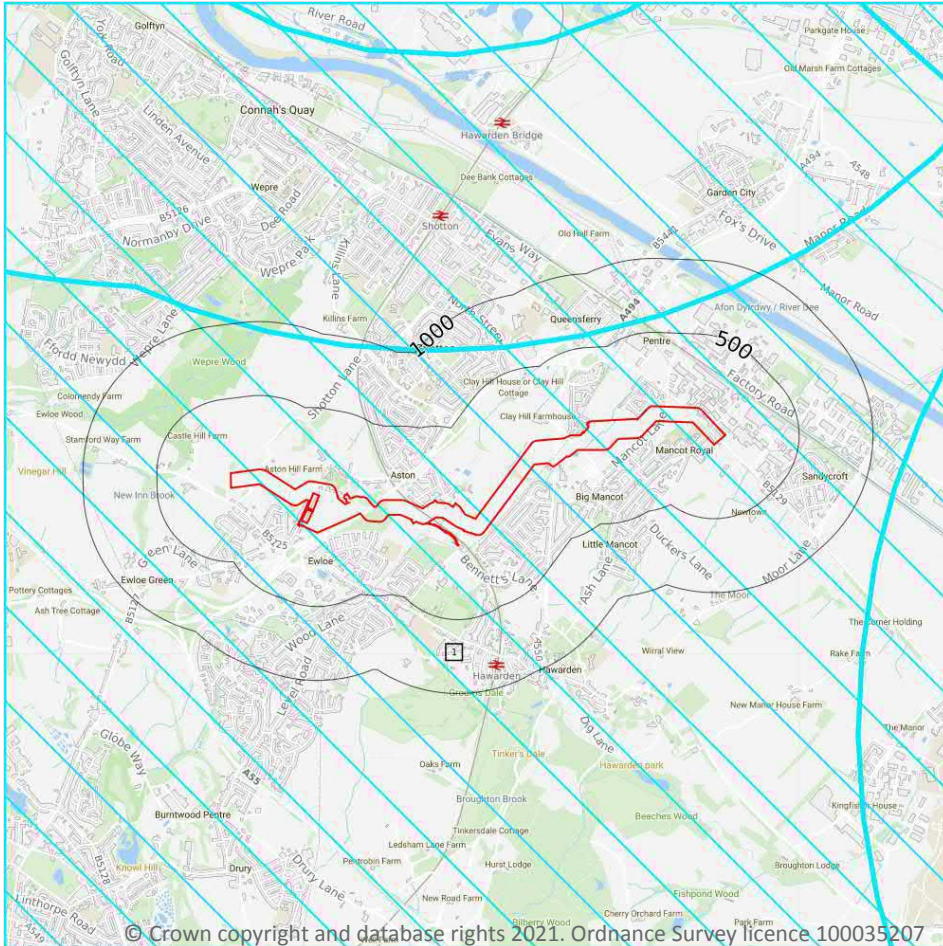


Location	Name	Type	NVZ ID	Status
1020m NE		Surface Water	708	New
1846m NE	Shotwick Brook NVZ	Surface Water	S708	Existing
1904m NE		Surface Water	708	New

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

1

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.

Features are displayed on the SSSI Impact Zones and Units map on **page 170**

ID	Location	Type of developments requiring consultation
1	On site	<p>Infrastructure - Airports, helipads and other aviation proposals.</p> <p>Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons > 4000m².</p> <p>Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion</p>

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m

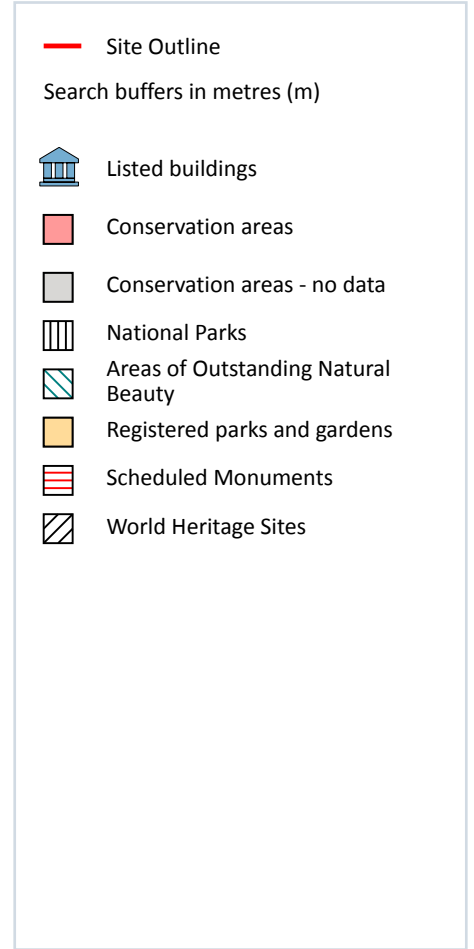
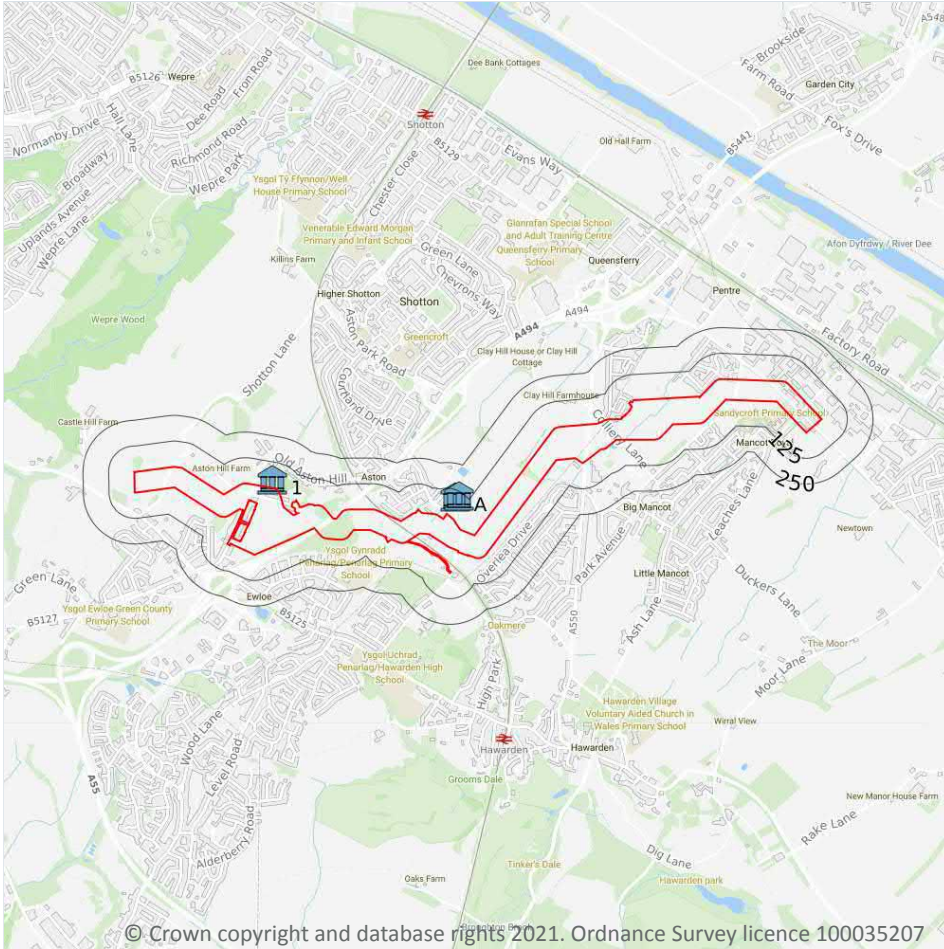
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Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation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

3

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.

Features are displayed on the Visual and cultural designations map on **page 172**

ID	Location	Name	Grade	Reference Number	Listed date
1	39m N	Church Of The Holy Spirit, Set Back On The East Side Of The Road At The Crest Of Aston Hill	II	20115	03/07/1998
A	93m NE	Aedocular Gateway At Aston Hall, To The W Of Aston Hall, And Adjoining A Modern, Single-Storey Building	II	15103	02/07/1962
A	104m NE	Aston Hall, Situated Off The Road In Its Own Walled Grounds	II*	23	02/07/1962

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

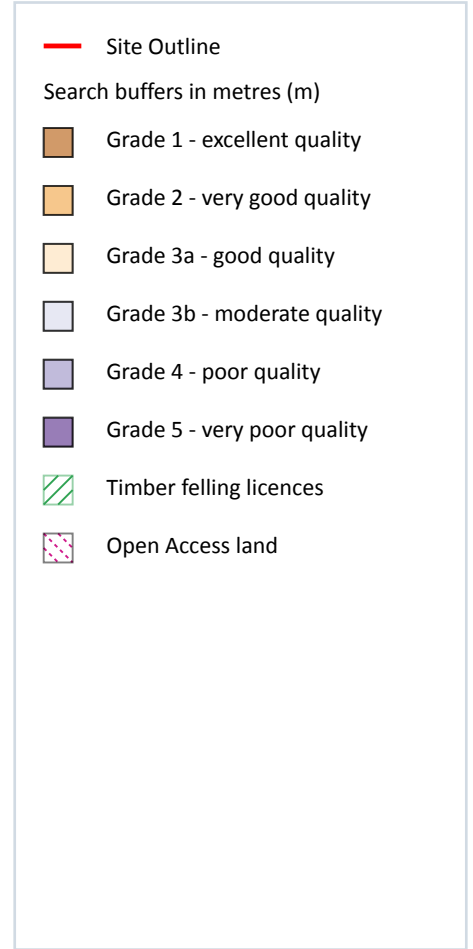
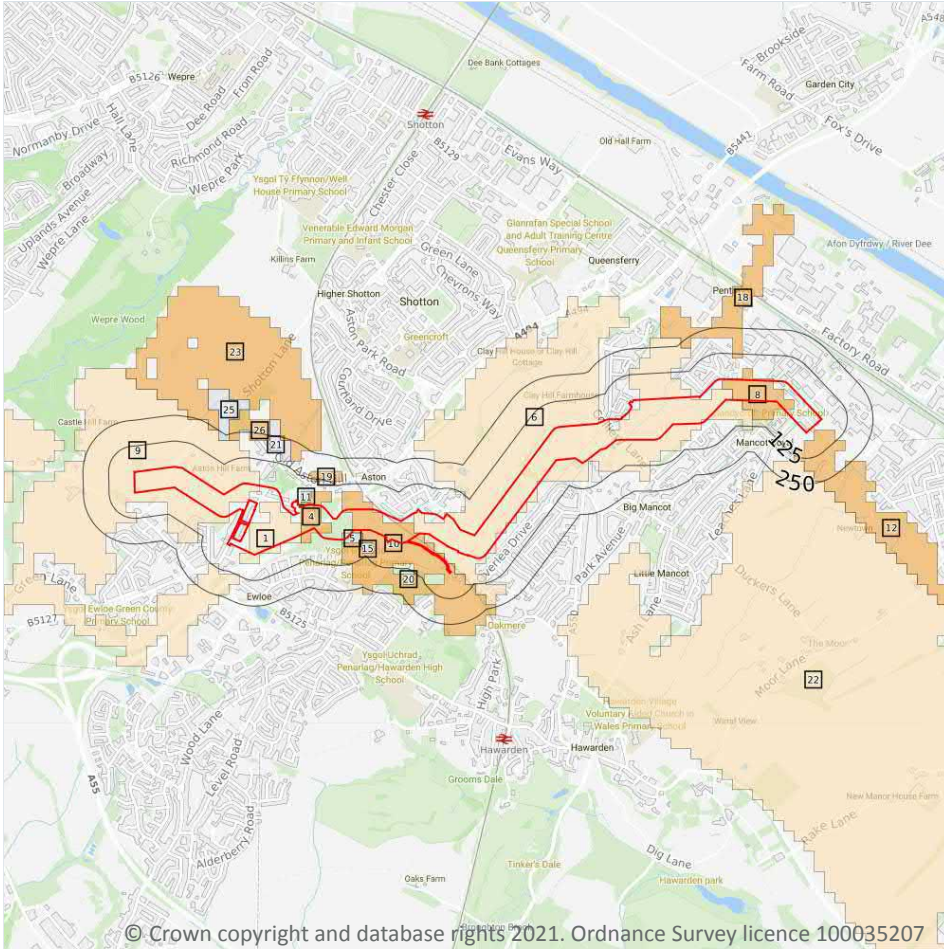
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Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process, 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



12.1 Agricultural Land Classification

Records within 250m

18

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 175**

ID	Location	Classification	Description
1	On site	Grade 3a	Good to moderate quality agricultural land
4	On site	Grade 2	Good quality agricultural land
5	On site	Grade 3b	Moderate quality agricultural land

ID	Location	Classification	Description
6	On site	Grade 3a	Good to moderate quality agricultural land
8	On site	Grade 2	Good quality agricultural land
9	On site	Grade 3a	Good to moderate quality agricultural land
10	On site	Grade 2	Good quality agricultural land
11	10m N	Grade 3b	Moderate quality agricultural land
12	17m SE	Grade 2	Good quality agricultural land
15	54m SW	Grade 3b	Moderate quality agricultural land
18	103m N	Grade 2	Good quality agricultural land
19	111m N	Grade 2	Good quality agricultural land
20	132m SW	Grade 3b	Moderate quality agricultural land
21	137m N	Grade 3b	Moderate quality agricultural land
22	139m S	Grade 3a	Good to moderate quality agricultural land
23	155m NE	Grade 2	Good quality agricultural land
25	208m NE	Grade 3b	Moderate quality agricultural land
26	210m N	Grade 2	Good 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

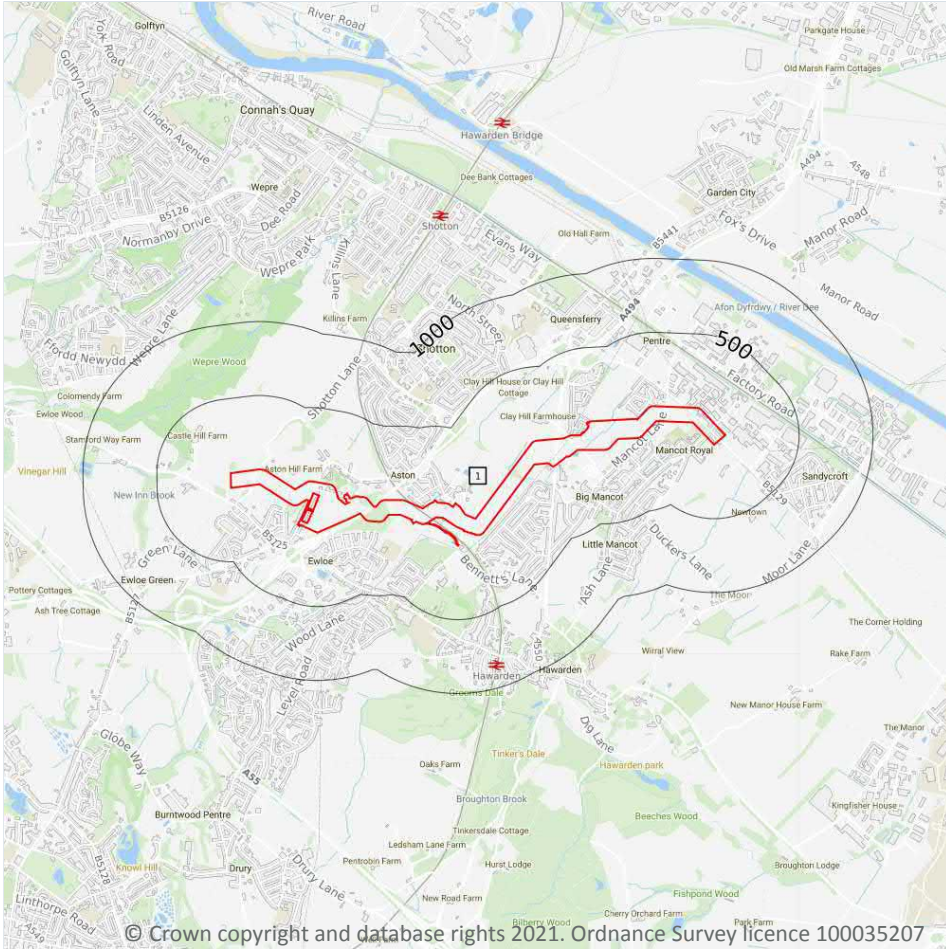
Records within 250m 0

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

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 179](#)

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

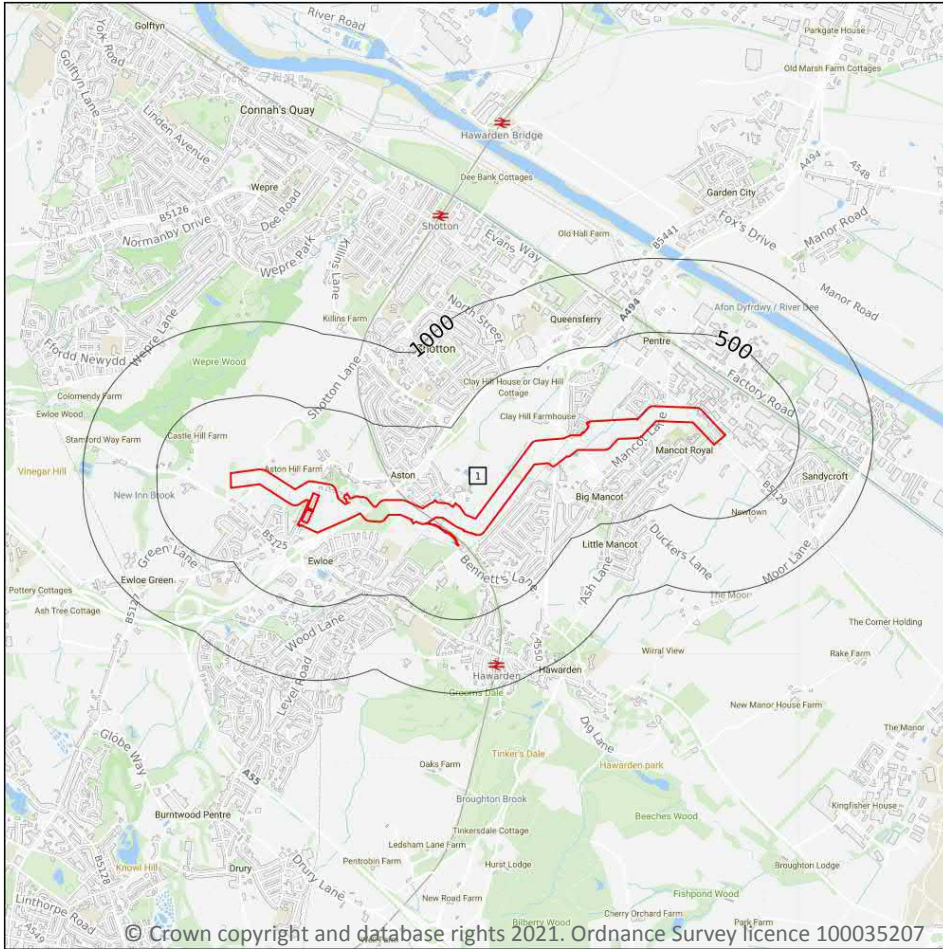
0

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

1

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 183**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW108_flint_v4

This data is sourced from the British Geological Survey.

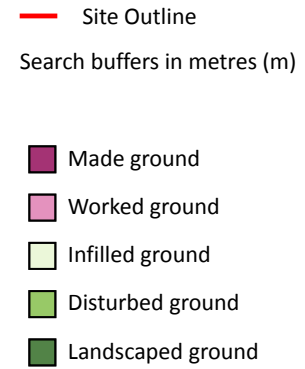
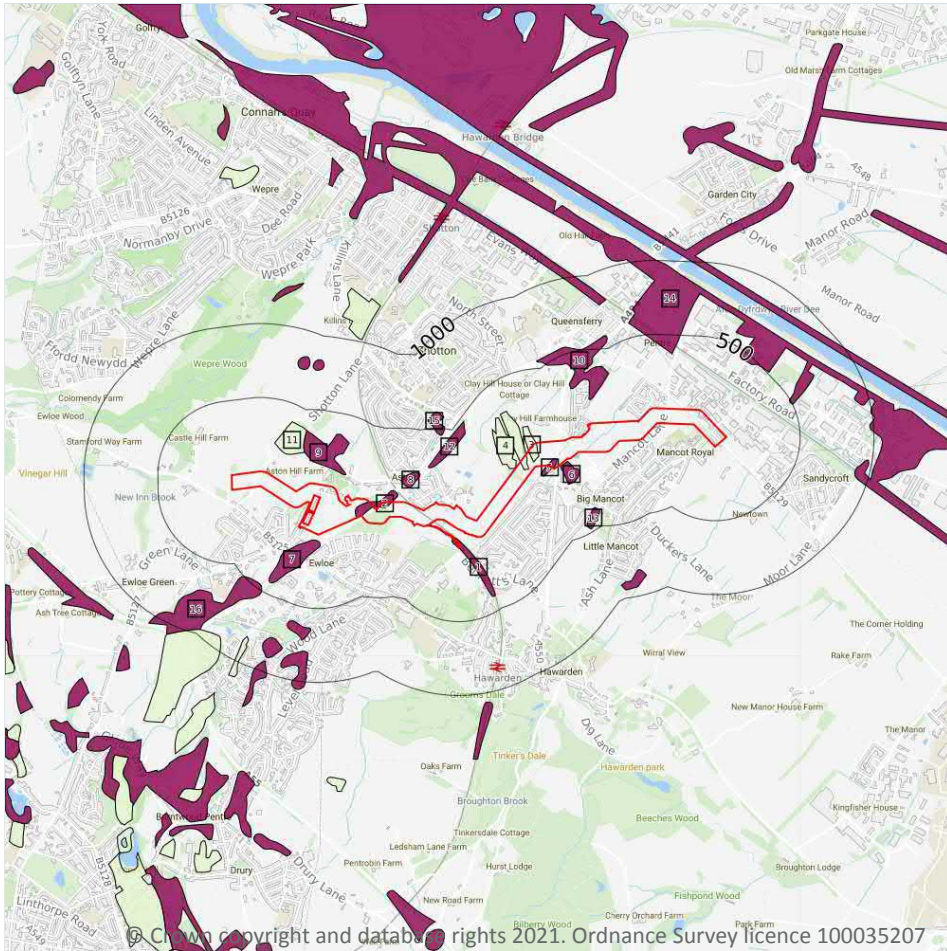


Contact us with any questions at:

08444 159 000

Date: 31 August 2021

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



15.2 Artificial and made ground (50k)

Records within 500m

16

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

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 184**

ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	On site	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
3	On site	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
4	On site	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT



ID	Location	LEX Code	Description	Rock description
5	On site	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
6	11m SE	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
7	41m S	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
8	103m N	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
9	109m NE	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
10	161m N	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
11	175m NE	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
12	236m N	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
13	371m SE	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
14	374m N	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
15	455m N	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
16	467m SW	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

7

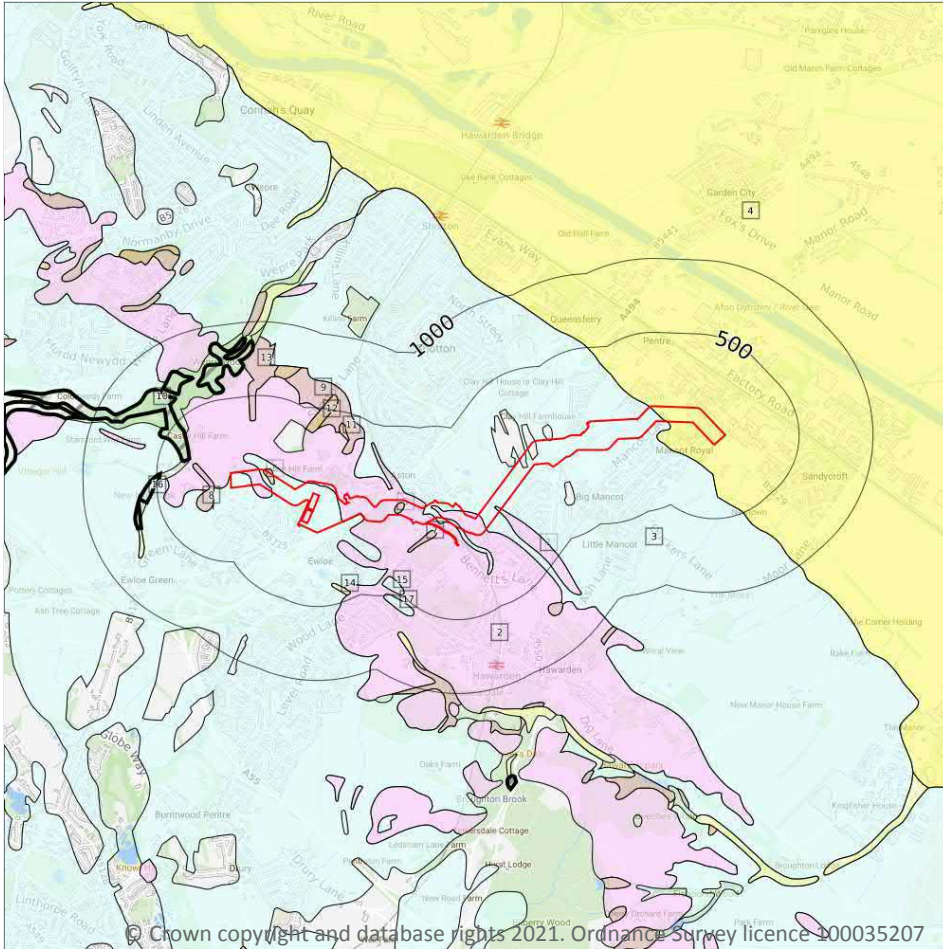
A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	Very High	Low
On site	Mixed	Very High	Low
On site	Mixed	Very High	Low
On site	Mixed	Very High	Low
On site	Mixed	Very High	Low
11m E	Mixed	Very High	Low
41m SW	Mixed	Very High	Low

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



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

15.4 Superficial geology (50k)

Records within 500m

15

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 186**

ID	Location	LEX Code	Description	Rock description
1	On site	GFDUD-XSV	GLACIOFLUVIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL
2	On site	GFDUD-XSV	GLACIOFLUVIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL
3	On site	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON

ID	Location	LEX Code	Description	Rock description
4	On site	TFD-XCZS	TIDAL FLAT DEPOSITS	CLAY, SILT AND SAND
5	On site	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
6	On site	LDE-XCZ	LACUSTRINE DEPOSITS	CLAY AND SILT
7	34m S	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
8	114m W	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
9	228m N	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
11	319m N	PEAT-P	PEAT	PEAT
12	328m N	PEAT-P	PEAT	PEAT
13	331m N	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
14	359m S	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
15	375m S	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
17	492m S	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m

10

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

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



Location	Flow type	Maximum permeability	Minimum permeability
On site	Intergranular	Moderate	Very Low
On site	Mixed	High	Low
On site	Mixed	High	Low
34m SW	Mixed	High	Very Low

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	2
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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.

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 186**

ID	Location	LEX Code	Description	Rock description
10	297m W	SLIP-UNKNOWN	LANDSLIDE DEPOSITS	UNKNOWN/UNCLASSIFIED ENTRY
16	480m W	SLIP-UNKNOWN	LANDSLIDE DEPOSITS	UNKNOWN/UNCLASSIFIED ENTRY

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

Records within 50m	0
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A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any 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

38

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 189**

ID	Location	LEX Code	Description	Rock age
2	On site	BSG-MDST	BOWLAND SHALE FORMATION - MUDSTONE	WISEAN
3	On site	HLR-SDST	HOLLIN ROCK - SANDSTONE	WESTPHALIAN
4	On site	HLR-SDST	HOLLIN ROCK - SANDSTONE	WESTPHALIAN

ID	Location	LEX Code	Description	Rock age
5	On site	ETM-MDSC	ETRURIA FORMATION - MUDSTONE, SANDSTONE AND CONGLOMERATE	WESTPHALIAN
6	On site	ETM-MDSC	ETRURIA FORMATION - MUDSTONE, SANDSTONE AND CONGLOMERATE	WESTPHALIAN
7	On site	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
8	On site	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
9	On site	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
10	On site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
11	On site	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
12	On site	PMCM-SDST	PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
13	On site	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
14	On site	ETM-MDSC	ETRURIA FORMATION - MUDSTONE, SANDSTONE AND CONGLOMERATE	WESTPHALIAN
15	On site	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
16	On site	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
17	On site	GS-SDAR	GWESPYR SANDSTONE - SANDSTONE AND [SUBEQUAL/SUBORDINATE] ARGILLACEOUS ROCKS, INTERBEDDED	NAMURIAN
18	On site	BSG-MDST	BOWLAND SHALE FORMATION - MUDSTONE	WISEAN
20	On site	HLR-SDST	HOLLIN ROCK - SANDSTONE	WESTPHALIAN
48	2m S	ETM-MDSC	ETRURIA FORMATION - MUDSTONE, SANDSTONE AND CONGLOMERATE	WESTPHALIAN
56	64m S	HLR-SDST	HOLLIN ROCK - SANDSTONE	WESTPHALIAN
61	76m N	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
63	101m S	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN



ID	Location	LEX Code	Description	Rock age
66	114m W	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
68	134m SW	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
72	152m W	HLR-SDST	HOLLIN ROCK - SANDSTONE	WESTPHALIAN
80	225m E	ETM-MDSC	ETRURIA FORMATION - MUDSTONE, SANDSTONE AND CONGLOMERATE	WESTPHALIAN
82	230m SW	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
83	242m NW	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
86	262m E	ETM-MDSC	ETRURIA FORMATION - MUDSTONE, SANDSTONE AND CONGLOMERATE	WESTPHALIAN
89	290m N	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
90	301m NW	ETM-MDSC	ETRURIA FORMATION - MUDSTONE, SANDSTONE AND CONGLOMERATE	WESTPHALIAN
91	309m NE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
97	364m S	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
101	385m NE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
108	479m W	GS-SDAR	GWESPYR SANDSTONE - SANDSTONE AND [SUBEQUAL/SUBORDINATE] ARGILLACEOUS ROCKS, INTERBEDDED	NAMURIAN
109	480m W	BSG-MDST	BOWLAND SHALE FORMATION - MUDSTONE	WISEAN
110	481m W	GS-SDAR	GWESPYR SANDSTONE - SANDSTONE AND [SUBEQUAL/SUBORDINATE] ARGILLACEOUS ROCKS, INTERBEDDED	NAMURIAN
113	499m S	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN

This data is sourced from the British Geological Survey.



15.9 Bedrock permeability (50k)

Records within 50m	10
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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	Moderate	Low
On site	Fracture	High	Moderate
On site	Fracture	Moderate	Low
On site	Fracture	Low	Low
On site	Fracture	High	Moderate
On site	Fracture	Moderate	Low
On site	Fracture	Moderate	Low
On site	Fracture	High	Moderate
On site	Fracture	High	Low
On site	Fracture	Moderate	Low

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	76
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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 189**

ID	Location	Category	Description
1	On site	ROCK	Coal seam, inferred
19	On site	ROCK	Coal seam, inferred
21	On site	ROCK	Coal seam, inferred
22	On site	ROCK	Coal seam, inferred
23	On site	ROCK	Coal seam, inferred



ID	Location	Category	Description
24	On site	ROCK	Coal seam, inferred
25	On site	ROCK	Coal seam, inferred
26	On site	ROCK	Coal seam, inferred
27	On site	ROCK	Coal seam, inferred
28	On site	ROCK	Coal seam, inferred
29	On site	ROCK	Coal seam, inferred
30	On site	ROCK	Coal seam, inferred
31	On site	ROCK	Coal seam, inferred
32	On site	ROCK	Coal seam, inferred
33	On site	ROCK	Coal seam, inferred
34	On site	ROCK	Coal seam, inferred
35	On site	ROCK	Coal seam, inferred
36	On site	FAULT	Fault, inferred, displacement unknown
37	On site	FAULT	Fault, inferred, displacement unknown
38	On site	FAULT	Fault, inferred, displacement unknown
39	On site	FAULT	Fault, inferred, displacement unknown
40	On site	FAULT	Fault, inferred, displacement unknown
41	On site	FAULT	Fault, inferred, displacement unknown
42	On site	FAULT	Fault, inferred, displacement unknown
43	On site	FAULT	Fault, inferred, displacement unknown
44	On site	FAULT	Fault, inferred, displacement unknown
45	On site	FAULT	Fault, inferred, displacement unknown
46	On site	FAULT	Fault, inferred, displacement unknown
47	On site	FAULT	Fault, inferred
49	9m NW	ROCK	Coal seam, inferred
50	13m NE	ROCK	Coal seam, inferred
51	13m N	ROCK	Coal seam, inferred
52	21m NE	ROCK	Coal seam, inferred



ID	Location	Category	Description
53	26m N	ROCK	Coal seam, inferred
54	33m NE	ROCK	Coal seam, inferred
55	48m N	ROCK	Coal seam, inferred
57	64m S	FAULT	Fault, inferred, displacement unknown
58	64m NW	ROCK	Coal seam, inferred
59	71m N	FAULT	Fault, inferred, displacement unknown
60	74m N	ROCK	Coal seam, inferred
62	101m S	FAULT	Fault, inferred, displacement unknown
64	106m N	ROCK	Coal seam, inferred
65	114m W	FAULT	Fault, inferred, displacement unknown
67	114m N	ROCK	Coal seam, inferred
69	135m NW	ROCK	Coal seam, inferred
70	147m N	ROCK	Coal seam, inferred
71	148m N	ROCK	Coal seam, inferred
73	152m W	FAULT	Fault, inferred, displacement unknown
74	155m SW	ROCK	Coal seam, inferred
75	162m NW	ROCK	Coal seam, inferred
76	174m NW	ROCK	Coal seam, inferred
77	175m N	ROCK	Coal seam, inferred
78	208m E	ROCK	Coal seam, inferred
79	225m E	FAULT	Fault, inferred, displacement unknown
81	230m SW	FAULT	Fault, inferred, displacement unknown
84	246m NW	ROCK	Coal seam, inferred
85	247m SW	ROCK	Coal seam, inferred
87	263m N	ROCK	Coal seam, inferred
88	290m N	ROCK	Coal seam, inferred
92	309m NE	ROCK	Coal seam, inferred
93	311m NW	ROCK	Coal seam, inferred

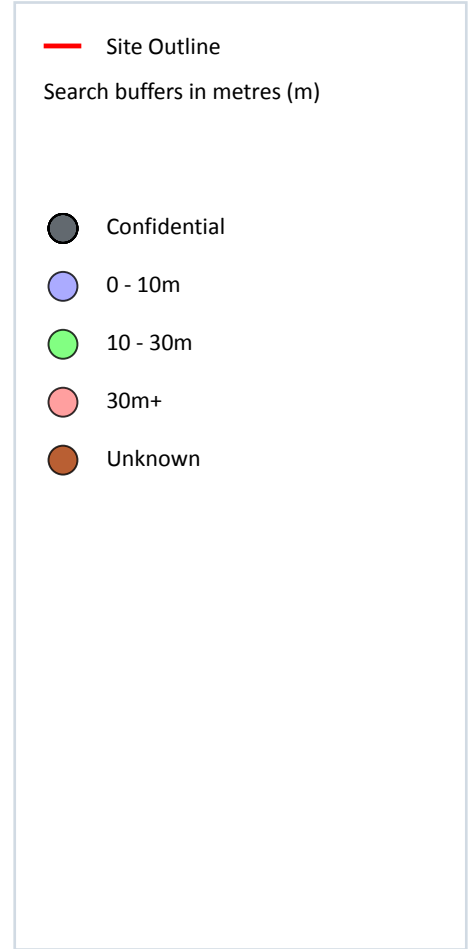
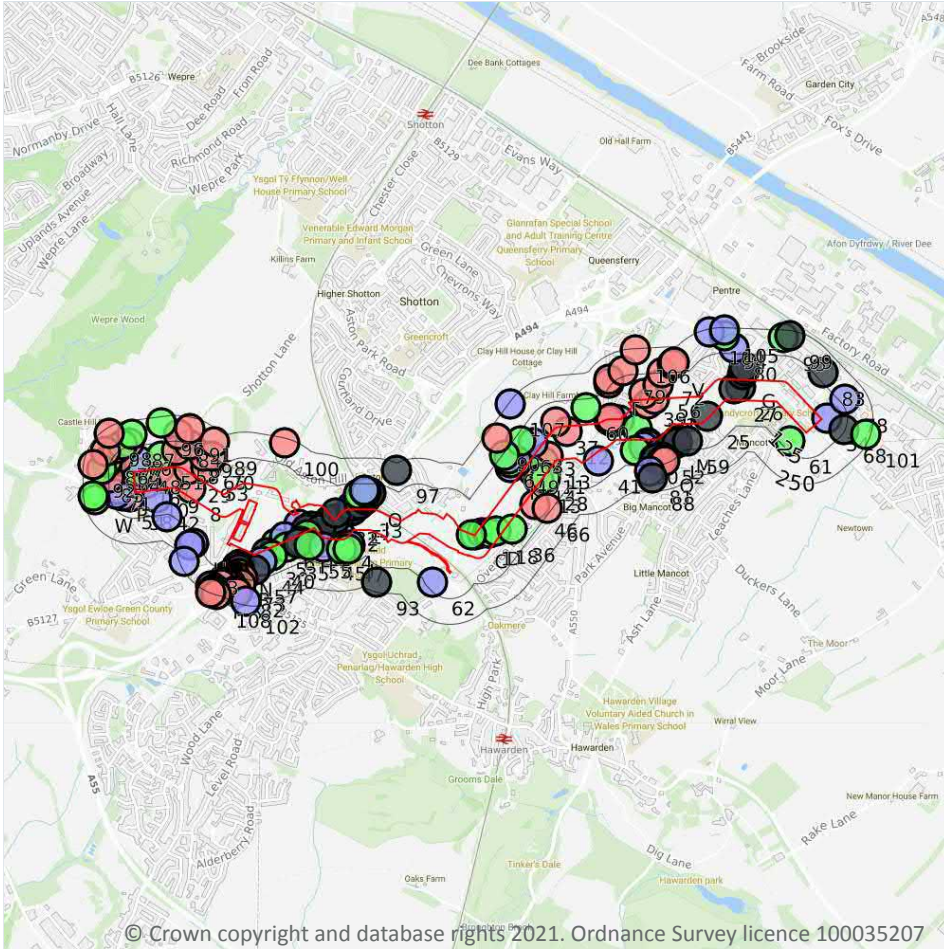


ID	Location	Category	Description
94	331m NE	ROCK	Coal seam, inferred
95	347m N	ROCK	Coal seam, inferred
96	355m N	ROCK	Coal seam, inferred
98	364m S	FAULT	Fault, inferred, displacement unknown
99	366m NW	ROCK	Coal seam, inferred
100	380m N	FAULT	Fault, inferred, displacement unknown
102	385m NE	ROCK	Coal seam, inferred
103	389m N	ROCK	Coal seam, inferred
104	394m N	ROCK	Coal seam, inferred
105	437m S	ROCK	Coal seam, inferred
106	467m SW	ROCK	Coal seam, inferred
107	479m W	FAULT	Fault, inferred, displacement unknown
111	481m W	FAULT	Fault, inferred, displacement unknown
112	482m W	FAULT	Fault, inferred, displacement unknown
114	499m S	FAULT	Fault, inferred, displacement unknown

This data is sourced from the British Geological Survey.



16 Boreholes



16.1 BGS Boreholes

Records within 250m

191

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 196**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	331700 367400	CLAY HILL	8.0	N	156598
2	On site	330140 366890	QUEENSFERRY, FLINT C.C ROAD SURVEY. 14	6.1	N	156128
3	On site	330290 366910	QUEENSFERRY, FLINT C.C ROAD SURVEY. 12	9.14	N	156126



ID	Location	Grid reference	Name	Length	Confidential	Web link
4	On site	330350 366830	QUEENSFERRY, FLINT C.C ROAD SURVEY. 15	6.1	N	156129
5	On site	330030 366800	QUEENSFERRY, FLINT C.C ROAD SURVEY. 7	11.28	N	156121
6	On site	330070 366830	QUEENSFERRY, FLINT C.C ROAD SURVEY. 6	9.14	N	156120
7	On site	329464 367162	WEPCE OPENCAST SITE. 1126	61.0	N	148243
8	On site	329614 367068	WEPCE OPENCAST SITE. 1135	70.0	N	148224
9	On site	329506 367108	WEPCE OPENCAST SITE. 1128	70.9	N	148222
10	On site	329397 367088	WEPCE OPENCAST SITE. 686	71.0	N	148189
11	On site	331329 367198	ASHFIELD HOUSE FARM (QUEENSFERRY RD)O/C SITE 314	11.0	N	156409
12	On site	331444 367343	ASHFIELD HOUSE FARM (QUEENSFERRY RD)O/C SITE 316	112.0	N	156410
13	On site	331352 367224	ASHFIELD HOUSE FARM (QUEENSFERRY RD)O/C SITE 317	90.0	N	156411
14	On site	331282 367148	ASHFIELD HOUSE FARM (QUEENSFERRY RD)O/C SITE 326	18.1	N	156412
15	On site	331308 367108	ASHFIELD HOUSE FARM (QUEENSFERRY RD)O/C SITE 341	100.0	N	156414
16	On site	329356 367144	WEPCE OPENCAST SITE. 786 ?	25.0	N	148190
17	On site	331030 366850	ASTON HALL, O/C SITE. 7	12.19	N	156234
18	On site	331100 366860	ASTON HALL, O/C SITE. 10	12.19	N	156237
19	On site	331790 367360	QUEENSFERRY COLLIERY, O/C SITE. 1	19.51	N	156200
20	On site	331840 367480	QUEENSFERRY COLLIERY, O/C SITE. 101	48.77	N	156203
21	On site	331870 367500	QUEENSFERRY COLLIERY, O/C SITE. 102	33.53	N	156204
22	On site	330322 366918	A494 Drome Corner to Ewloe Improvement WS25	-	Y	N/A
23	On site	330200 366881	A494 Drome Corner to Ewloe Improvement BH42	-	Y	N/A
24	On site	330177 366869	A494 Drome Corner to Ewloe Improvement TP37	-	Y	N/A
25	On site	332130 367420	MANCOT CSO TP8	-	Y	N/A
26	On site	332290 367560	MANCOT CSO TP10	-	Y	N/A
27	On site	332260 367550	MANCOT CSO TP9	-	Y	N/A



ID	Location	Grid reference	Name	Length	Confidential	Web link
A	On site	331670 367390	QUEENSFERRY (OR ASTON) COLLIERY	-2.0	N	156333
A	On site	331650 367400	QUEENSFERRY (OR ASTON) COLLIERY PIT 5	161.12	N	156072
B	On site	330230 366880	QUEENSFERRY, FLINT C.C ROAD SURVEY. 13	11.58	N	156127
B	On site	330240 366870	PROPOSED HAWARDEN BY-PASS. 2	15.3	N	156184
B	On site	330248 366867	A494 Drome Corner to Ewloe Improvement WS24	-	Y	N/A
C	On site	331000 366840	ASTON HALL, O/C SITE. 6	12.19	N	156233
C	On site	330980 366840	ASTON HALL, O/C SITE. 5	12.19	N	156232
D	On site	331060 366850	ASTON HALL, O/C SITE. 8	12.19	N	156235
D	On site	331070 366850	ASTON HALL, O/C SITE. 9	12.19	N	156236
E	On site	330393 366955	A494 Drome Corner to Ewloe Improvement BH41	-	Y	N/A
E	On site	330404 366961	A494 Drome Corner to Ewloe Improvement TP33	-	Y	N/A
A	7m N	331660 367410	QUEENSFERRY (OR ASTON) COLLIERY NO.4 SHAFT	91.5	N	156332
28	8m SE	331340 367120	QUEENSFERRY ROAD, O/C SITE. 11	12.19	N	156255
29	11m NE	329604 367159	WEPCE OPENCAST SITE. 1121	92.5	N	148221
F	14m S	331840 367290	QUEENSFERRY COLLIERY, O/C SITE. 103	22.86	N	156205
30	14m SE	329981 366753	A494 Drome Corner to Ewloe Improvement BH29	-	Y	N/A
E	15m N	330400 366979	A494 Drome Corner to Ewloe Improvement WS26	-	Y	N/A
31	15m SE	330180 366840	QUEENSFERRY, FLINT C.C ROAD SURVEY. 5	12.19	N	156119
32	22m NW	330319 366949	A494 Drome Corner to Ewloe Improvement WS23	-	Y	N/A
F	24m S	331840 367280	OLD SHAFT	-2.0	N	156340
33	24m N	330437 366988	A494 Drome Corner to Ewloe Improvement TP32	-	Y	N/A
G	25m N	332300 367620	MANCOT CSO 10	-	Y	N/A
34	25m E	332710 367410	SANDYCROFT INDUSTRIAL ESTATE 8	9.3	N	156389
35	28m SE	330080 366780	QUEENSFERRY, FLINT C.C ROAD SURVEY. 4	10.06	N	156118
36	29m SE	331180 366870	ASTON HALL, O/C SITE. 11	12.19	N	156229
H	29m SE	330150 366810	QUEENSFERRY, FLINT C.C ROAD SURVEY. 9	8.26	N	156123



ID	Location	Grid reference	Name	Length	Confidential	Web link
37	30m N	331392 367392	ASHFIELD HOUSE FARM (QUEENSFERRY RD)O/C SITE 329	87.0	N	156413
38	31m SW	329318 367026	WEPCE OPENCAST SITE. 684	40.0	N	148188
39	31m N	331820 367530	SHELL PIPELINE CONTRACT 1 AREA K(I) 4/68	36.58	N	156369
F	34m S	331820 367270	OLD SHAFT	-2.0	N	156341
H	34m SE	330136 366798	A494 Drome Corner to Ewloe Improvement BH44	-	Y	N/A
40	37m SE	330010 366740	QUEENSFERRY, FLINT C.C ROAD SURVEY. 8	10.67	N	156122
41	38m SE	331600 367200	MAIN SEAM PLAN (QUEENSFERRY & MANCOT COLLIERY)	-2.0	N	156281
I	39m SE	330390 366790	QUEENSFERRY, FLINT C.C ROAD SURVEY. 18	4.57	N	156132
42	40m S	329450 367020	MARE HAY COLLIERY, ENGINE PIT	-2.0	N	147873
43	42m NW	331280 367290	QUEENSFERRY ROAD, O/C SITE. 17	8.53	N	156256
44	45m SE	329960 366710	QUEENSFERRY AREA, FLINTS C.C. ROAD SURVEY	6.1	N	146979
45	45m S	330260 366780	QUEENSFERRY, FLINT C.C ROAD SURVEY. 11	9.14	N	156125
G	45m N	332310 367640	MANCOT CSO TP11	-	Y	N/A
46	45m SE	331290 366990	ASTON HALL COLLIERY, NO.5 PITS QUEENSFERRY COLL.	95.1	N	156338
47	47m S	330350 366770	QUEENSFERRY, FLINT C.C ROAD SURVEY. 16	11.58	N	156130
J	48m N	330463 367012	A494 Drome Corner to Ewloe Improvement BH28	-	Y	N/A
48	51m N	329360 367200	MARE HAY COLLIERY	-2.0	N	147872
49	53m NW	331200 367200	ASHFIELD HOUSE FARM, O/C SITE	-2.0	N	156286
I	53m S	330380 366770	QUEENSFERRY, FLINT C.C ROAD SURVEY. 17	10.97	N	156131
50	54m S	331780 367250	QUEENSFERRY COLLIERY, O/C SITE. 2	24.99	N	156201
J	56m N	330450 367020	QUEENSFERRY, FLINT C.C ROAD SURVEY. 31	10.36	N	156145
51	58m N	329470 367222	WEPCE OPENCAST SITE. 711	29.0	N	148194
K	59m NW	331170 367170	ASTON HALL, O/C SITE. 3	9.75	N	156230
52	61m SE	331910 367250	MANCOT CSO P3	-	Y	N/A
53	63m NE	329687 367168	WEPCE OPENCAST SITE. 1129	87.0	N	148223
54	64m W	329280 367030	MARE HAY COLLIERY, ENGINE OR WATER SHAFT	-2.0	N	148079
55	64m SE	330190 366790	QUEENSFERRY, FLINT C.C ROAD SURVEY. 10	10.67	N	156124



ID	Location	Grid reference	Name	Length	Confidential	Web link
G	65m N	332310 367660	MANCOT CSO 9	-	Y	N/A
J	66m N	330440 367030	QUEENSFERRY, FLINT C.C ROAD SURVEY. 29	18.29	N	156143
L	66m SE	331950 367270	MANCOT CSO 3	-	Y	N/A
L	66m SE	331950 367270	MANCOT CSO R3	-	Y	N/A
56	67m N	331890 367570	SHELL PIPELINE CONTRACT 1 AREA K(I) 1/68	36.88	N	156366
M	67m SE	331980 367300	MANCOT CSO R4	-	Y	N/A
K	71m NW	331170 367190	ASTON HALL, O/C SITE. 2	12.19	N	156228
N	71m SW	329853 366699	A494 Drome Corner to Ewloe Improvement WS43	-	Y	N/A
M	74m SE	331980 367290	MANCOT CSO 4	-	Y	N/A
57	76m S	329926 366668	A494 Drome Corner to Ewloe Improvement WS22	-	Y	N/A
O	76m N	330480 367040	QUEENSFERRY, FLINT C.C ROAD SURVEY. 33	9.45	N	156147
J	76m N	330430 367040	QUEENSFERRY, FLINT C.C ROAD SURVEY. 30	11.16	N	156144
58	79m N	329544 367250	WEPCE OPENCAST SITE. 712	46.0	N	148195
59	81m S	332030 367300	MANCOT CSO TP7	-	Y	N/A
O	82m N	330489 367046	A494 Drome Corner to Ewloe Improvement BH27	-	Y	N/A
60	83m N	331540 367460	QUEENSFERRY ROAD, O/C SITE. 2	18.9	N	156254
N	84m SW	329840 366690	HAWARDEN BY-PASS, (EXPLORATION ASSOCIATES). NO.79	42.3	N	147771
61	85m SW	332530 367300	LOWER ASH FARM, O/C SITE. 2	12.19	N	156219
P	85m W	329256 367064	WEPCE OPENCAST SITE. 685	59.0	N	148225
O	86m N	330470 367050	QUEENSFERRY, FLINT C.C ROAD SURVEY. 28	18.29	N	156142
Q	87m S	331900 367220	MANCOT CSO TP1	-	Y	N/A
Q	90m S	331910 367220	MANCOT CSO P2	-	Y	N/A
K	91m NW	331160 367210	ASTON HALL, O/C SITE. 1	9.75	N	156227
P	92m W	329250 367040	MARE HAY COLLIERY	-2.0	N	148078
62	93m SW	330790 366610	PROPOSED HAWARDEN BY-PASS. 3	8.8	N	156185
Q	94m S	331870 367210	MANCOT CSO P1	-	Y	N/A
Q	94m S	331880 367210	MANCOT CSO 1	-	Y	N/A



ID	Location	Grid reference	Name	Length	Confidential	Web link
N	95m SW	329848 366675	A494 Drome Corner to Ewloe Improvement WS12A	-	Y	N/A
N	95m SW	329848 366675	A494 Drome Corner to Ewloe Improvement WS12	-	Y	N/A
O	96m N	330460 367060	QUEENSFERRY, FLINT C.C ROAD SURVEY. 32	9.45	N	156146
63	96m NW	331220 367300	QUEENSFERRY ROAD, O/C SITE. 18	12.19	N	156257
64	100m NW	329260 367208	WEPCE OPENCAST SITE. 1017	46.46	N	148234
65	104m NE	329678 367222	WEPCE OPENCAST SITE. 1112	62.0	N	148242
66	105m SE	331350 366970	ASTON HALL COLL. NO.5 PITS QUEENSFERRY COLL. NO.1	92.35	N	156339
Q	109m S	331910 367200	QUEENSFERRY COLLIERY, O/C SITE. 104	30.48	N	156206
Q	112m S	331920 367200	GREAT MANCOT COLLIERY	94.6	N	156199
R	117m SW	329850 366650	HAWARDEN BY-PASS, (EXPLORATION ASSOCIATES). NO.81	42.0	N	147773
67	119m NW	331140 367230	ASTON HALL, O/C SITE. 4	12.19	N	156231
68	119m SE	332793 367353	GLENDALE AVENUE SANDYCROFT 1	-	Y	N/A
69	120m N	329610 367280	WEPCE OPENCAST SITE. 1107	54.1	N	148241
70	124m NE	329716 367222	WEPCE OPENCAST SITE. 1093	70.0	N	148219
71	125m W	329215 367116	WEPCE OPENCAST SITE. 1020	56.0	N	148209
72	126m N	331910 367630	SHELL PIPELINE CONTRACT 1 2/68	43.0	N	156367
73	126m SW	329870 366630	HAWARDEN BY-PASS, (EXPLORATION ASSOCIATES). NO.82	43.7	N	147774
R	134m SW	329830 366640	HAWARDEN BY-PASS, (EXPLORATION ASSOCIATES). NO.80	40.0	N	147772
74	136m S	329500 366930	NEW MARE HAY COLLIERY	-2.0	N	147874
S	138m W	329209 367192	WEPCE OPENCAST SITE. 1021	56.0	N	148235
T	139m NW	331650 367580	QUEENSFERRY COLLIERY	54.86	N	156336
S	140m W	329210 367200	CASTLE HILL COLLIERY, O/C. 2	12.19	N	147202
75	140m NW	329255 367260	WEPCE OPENCAST SITE. 1023	65.0	N	148236
R	142m SW	329810 366640	HAWARDEN BY-PASS, (EXPLORATION ASSOCIATES). NO.77	41.5	N	147767
76	144m N	329314 367290	WEPCE OPENCAST SITE. 1003	71.0	N	148203



ID	Location	Grid reference	Name	Length	Confidential	Web link
77	145m NW	329280 367280	CASTLE HILL COLLIERY, O/C. 3	12.19	N	147203
R	147m SW	329795 366642	A494 Drome Corner to Ewloe Improvement BH31	-	Y	N/A
78	150m NE	332800 367500	SANDYCROFT INDUSTRIAL ESTATE 1	6.55	N	156383
79	152m N	331720 367640	QUEENSFERRY COLLIERY, NO.1 SHAFT	36.58	N	156334
T	152m NW	331650 367600	QUEENSFERRY COLLIERY, NO.2 SHAFT	82.3	N	156335
80	153m N	332260 367750	CHESTER ROAD EAST TP15	2.7	N	15988283
81	154m S	331850 367150	OLD SHAFT	-2.0	N	156337
R	156m SW	329820 366620	HAWARDEN BY-PASS, (EXPLORATION ASSOCIATES). NO.78	40.3	N	147770
82	158m SW	329860 366600	HAWARDEN BY-PASS, (EXPLORATION ASSOCIATES). NO.204	50.35	N	147775
83	159m NE	332690 367630	OWENS CORNING QUEENSFERRY 1	-	Y	N/A
84	159m N	329555 367330	WEPCE OPENCAST SITE. 706	38.0	N	148226
R	160m S	329790 366630	HAWARDEN BY-PASS, (EXPLORATION ASSOCIATES). NO.77A	44.0	N	147768
R	160m S	329789 366630	A494 Drome Corner to Ewloe Improvement BH32	-	Y	N/A
85	160m W	329180 367160	CASTLE HILL COLLIERY, O/C. 1	12.19	N	147201
R	161m S	329781 366630	A494 Drome Corner to Ewloe Improvement WS13	-	Y	N/A
R	162m SW	329790 366628	A494 Drome Corner to Ewloe Improvement HP21	-	Y	N/A
U	163m W	329630 366800	OLD SHAFT	-2.0	N	147994
V	163m N	331960 367670	SHELL PIPELINE CONTRACT 1 AREA K(I) 3/68	42.0	N	156368
86	171m NW	329200 367246	WEPCE OPENCAST SITE. 1074	60.0	N	148207
V	173m N	331970 367680	SHELL PIPELINE CONTRACT 1 AREA K(I) 5/68	31.8	N	156370
R	173m SW	329808 366607	A494 Drome Corner to Ewloe Improvement HP24	-	Y	N/A
R	174m SW	329800 366610	UNNAMED SHAFT	-2.0	N	148035
R	176m SW	329804 366606	A494 Drome Corner to Ewloe Improvement HP23	-	Y	N/A
R	181m S	329780 366610	HAWARDEN BY-PASS, (EXPLORATION ASSOCIATES). NO.77B	40.0	N	147769
87	182m N	329330 367330	CASTLE HILL COLLIERY, O/C. 6	12.19	N	147206
U	183m W	329610 366790	OLD SHAFT	-2.0	N	147993



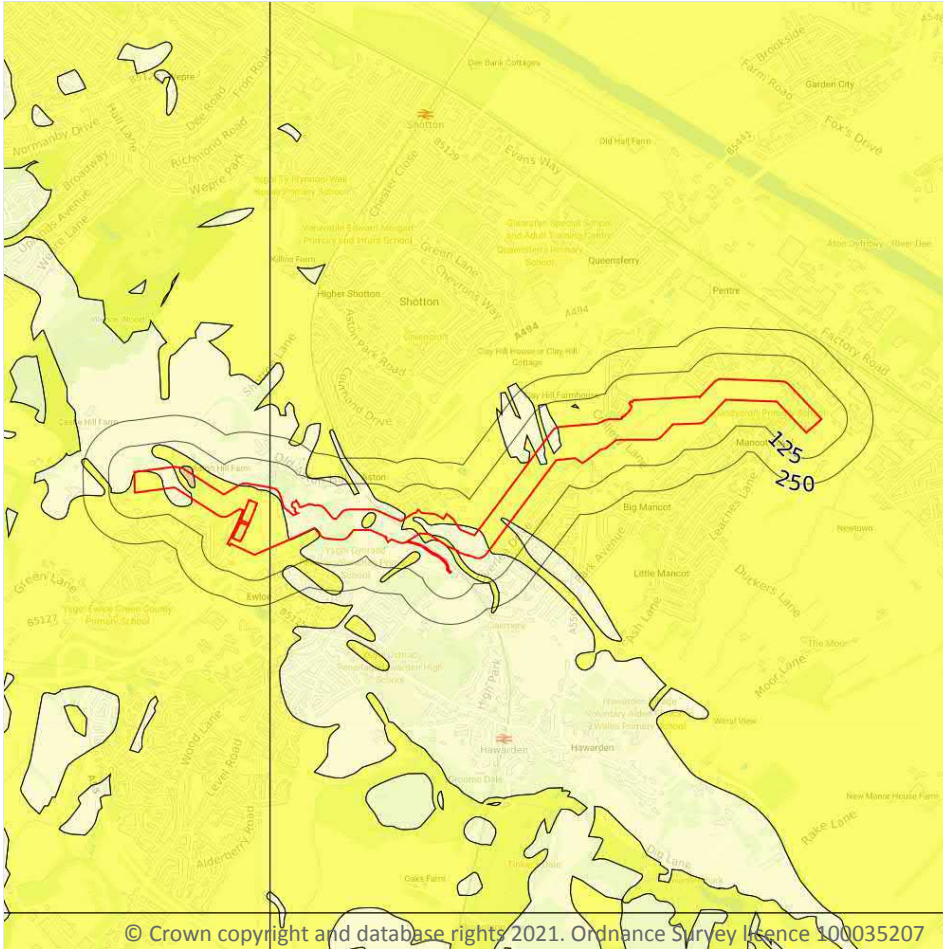
ID	Location	Grid reference	Name	Length	Confidential	Web link
88	184m S	331860 367120	MANCOT CSO 7	-	Y	N/A
R	187m SW	329790 366600	UNNAMED SHAFT	-2.0	N	148036
89	191m NE	329731 367292	WEPCE OPENCAST SITE. 1101	59.5	N	148220
90	194m NW	331107 367312	ASHFIELD HOUSE FARM (QUEENSFERRY RD)O/C SITE 337	41.0	N	156415
R	194m S	329760 366600	HAWARDEN BY-PASS, (EXPLORATION ASSOCIATES). NO.75	39.5	N	147766
W	195m W	329150 367010	NEW INN BRIDGE FARM	12.1	N	147001
91	195m N	329609 367358	WEPCE OPENCAST SITE. 1086	60.0	N	148218
X	198m SW	329830 366570	HAWARDEN BY-PASS, (EXPLORATION ASSOCIATES). NO.205	50.15	N	147776
W	202m W	329140 367030	PROPOSED HAWARDEN BY-PASS. 1	12.2	N	146990
X	202m SW	329840 366560	HAWARDEN BY-PASS, (EXPLORATION ASSOCIATES). NO.73	39.85	N	147765
92	203m W	329140 367183	WEPCE OPENCAST SITE. 115	47.0	N	148208
93	203m S	330520 366610	EWLOE CUTTING 4	-	Y	N/A
94	211m N	332210 367810	CHESTER ROAD EAST 2	10.15	N	15988264
95	212m N	332500 367800	POWELL DYFFRYN, TIMBER INDUSTRIES	15.54	N	156285
96	218m N	329472 367384	WEPCE OPENCAST SITE. 699	12.0	N	148193
Y	219m SW	329711 366591	A494 Drome Corner to Ewloe Improvement WS14	-	Y	N/A
97	220m NE	330617 367157	A494 Drome Corner to Ewloe Improvement GB2	-	Y	N/A
Y	222m S	329730 366580	HAWARDEN BY-PASS, (EXPLORATION ASSOCIATES). NO.72	41.0	N	147764
98	223m NW	329218 367335	WEPCE OPENCAST SITE. 1004	60.0	N	148205
99	225m N	332530 367810	OWENS CORNING QUEENSFERRY 2	-	Y	N/A
100	226m N	330069 367288	WEPIE OPENCAST SITE 590	50.0	N	156398
101	227m E	332900 367330	SANDYCROFT INDUSTRIAL ESTATE 7	18.59	N	156388
102	228m S	329880 366520	UNNAMED SHAFT	-2.0	N	148067
103	230m W	329580 366710	NCB SHAFT 267	-2.0	N	148077
104	237m N	332140 367830	CHESTER ROAD EAST TP16	2.5	N	15988284



ID	Location	Grid reference	Name	Length	Confidential	Web link
Y	238m S	329719 366567	A494 Drome Corner to Ewloe Improvement HP18	-	Y	N/A
Y	239m S	329714 366568	A494 Drome Corner to Ewloe Improvement WS28	-	Y	N/A
Y	240m S	329716 366566	A494 Drome Corner to Ewloe Improvement HP17	-	Y	N/A
105	241m N	332210 367840	CHESTER ROAD EAST TP14	2.9	N	15988280
106	243m N	331780 367740	QUEENSFERRY (OR ASTON) COLLIERY NO.2, DOWNCAST	156.36	N	156331
107	244m NW	331170 367480	OLD SHAFT NO 40	-2.0	N	156343
108	248m S	329740 366550	HAWARDEN BY-PASS, (EXPLORATION ASSOCIATES). NO.71	40.55	N	147763
Y	248m S	329710 366560	HAWARDEN BY-PASS, (EXPLORATION ASSOCIATES). NO.70	39.85	N	147761

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

4

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 205**

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

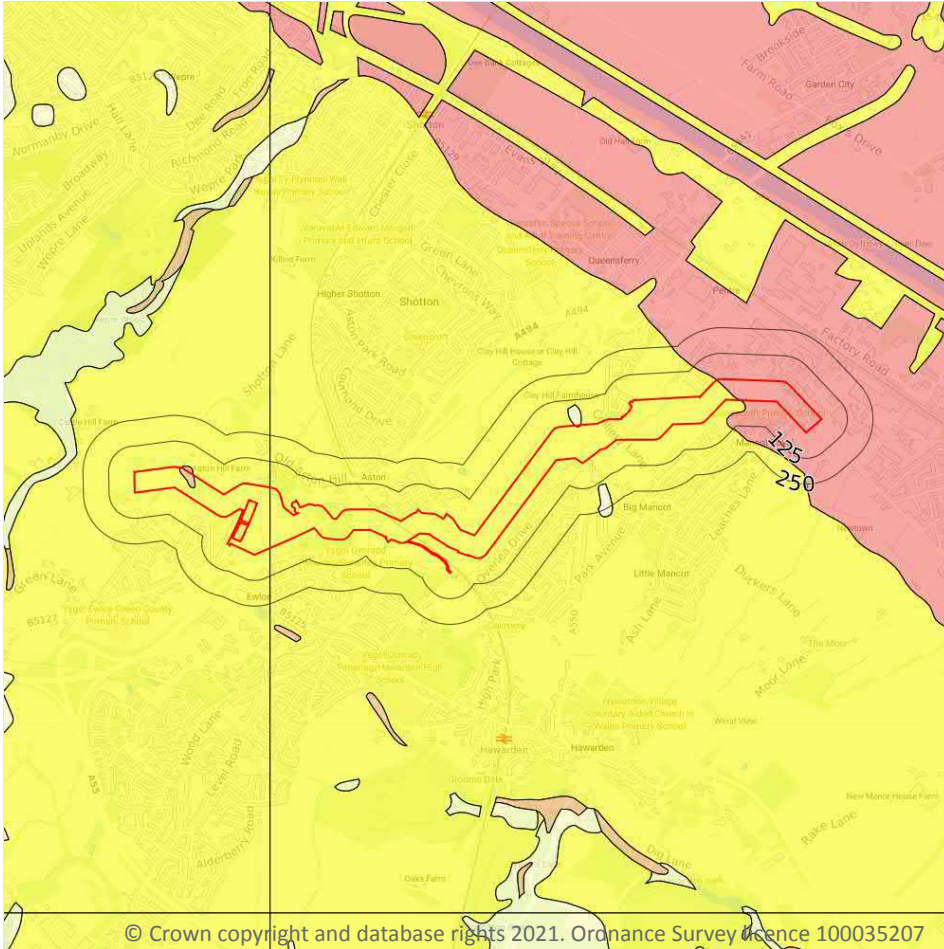


Location	Hazard rating	Details
34m S	Very low	Ground conditions predominantly low plasticity.

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

4

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 207**

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

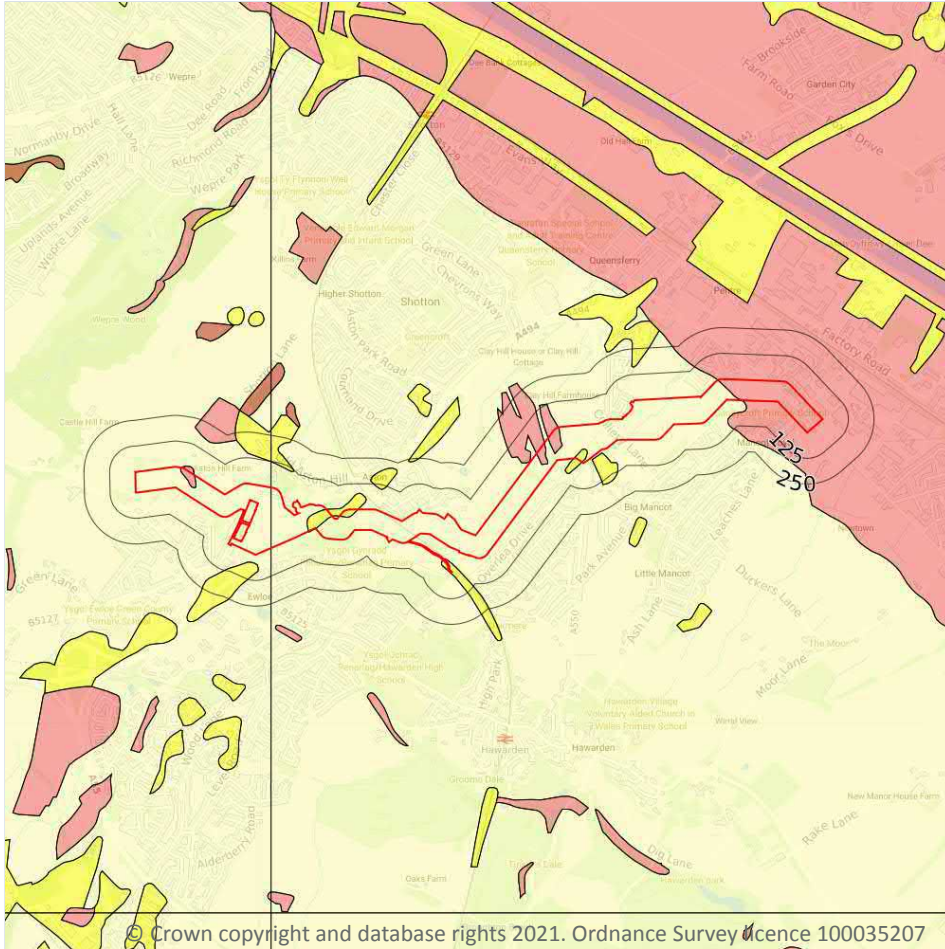


Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.
On site	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.
On site	Moderate	Running sand conditions are probably present. Constraints may apply to land uses involving excavation or the addition or removal of water.

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

17.3 Compressible deposits

Records within 50m

5

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 209**

Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.
On site	Very low	Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses.

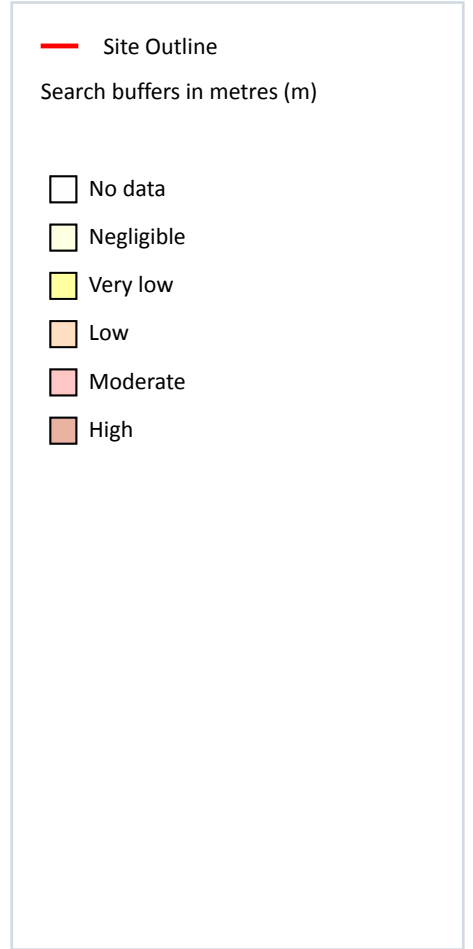
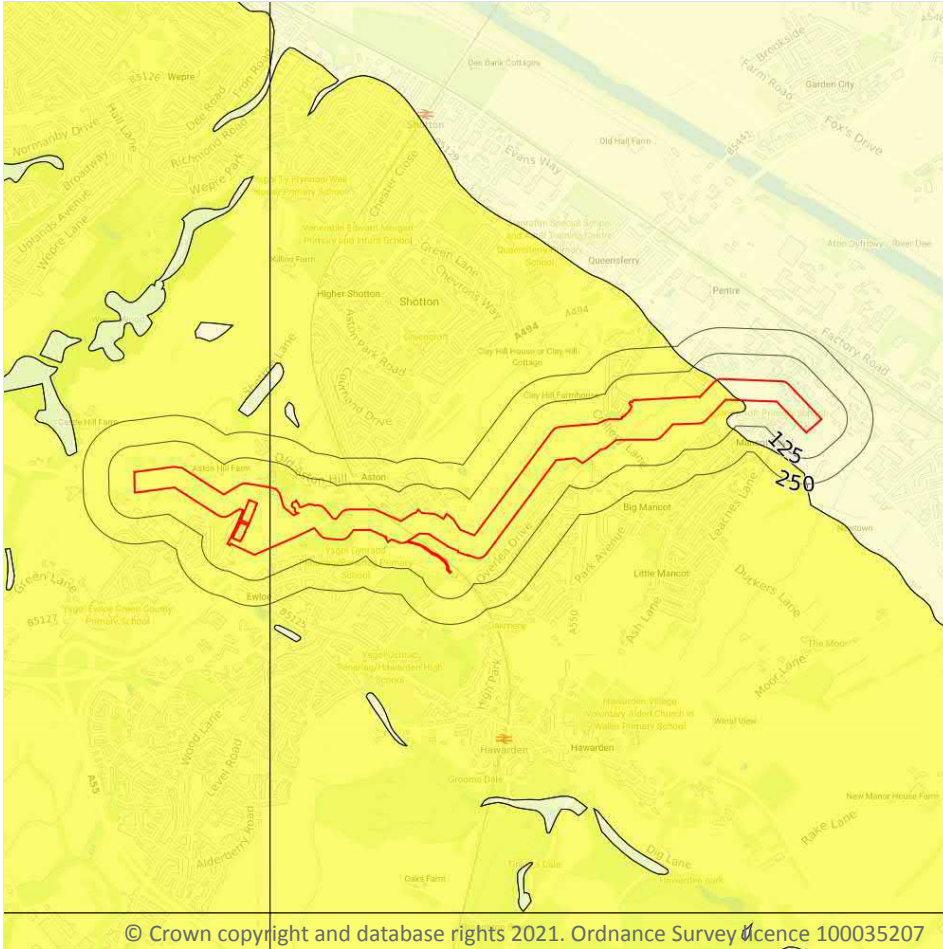


Location	Hazard rating	Details
On site	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.
11m SE	Very low	Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses.
41m S	Very low	Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



17.4 Collapsible deposits

Records within 50m

2

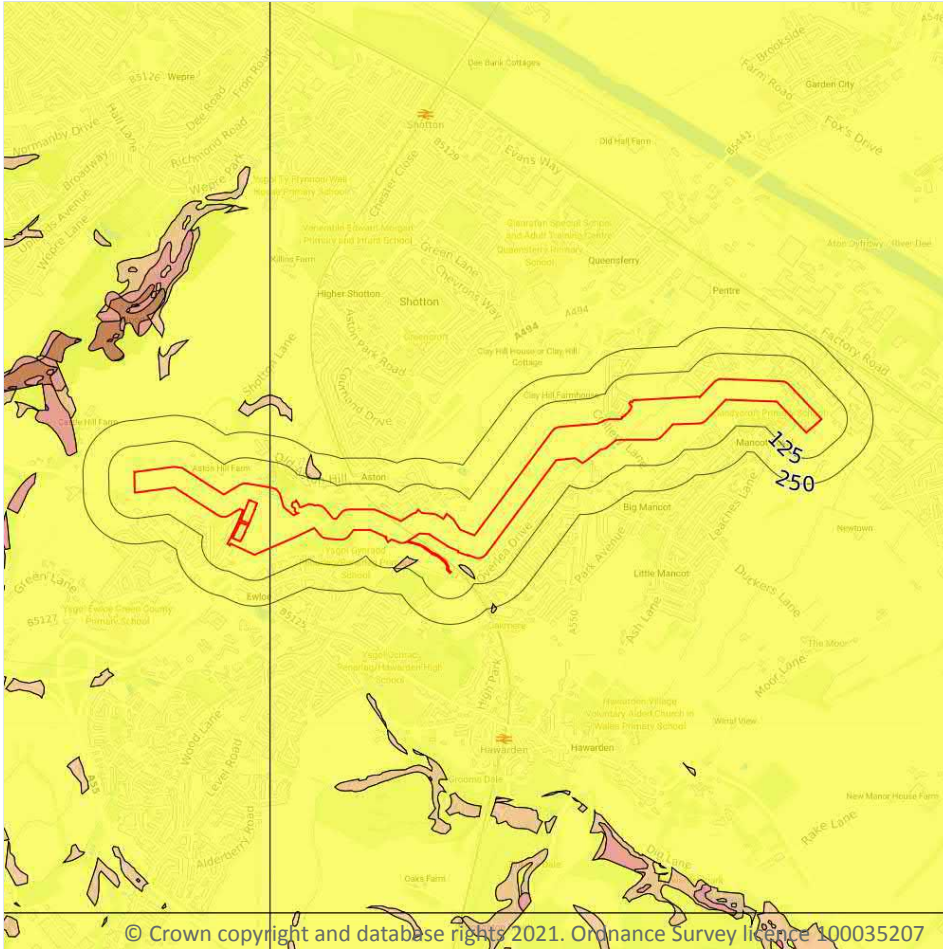
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 211**

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

17.5 Landslides

Records within 50m

2

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 212**

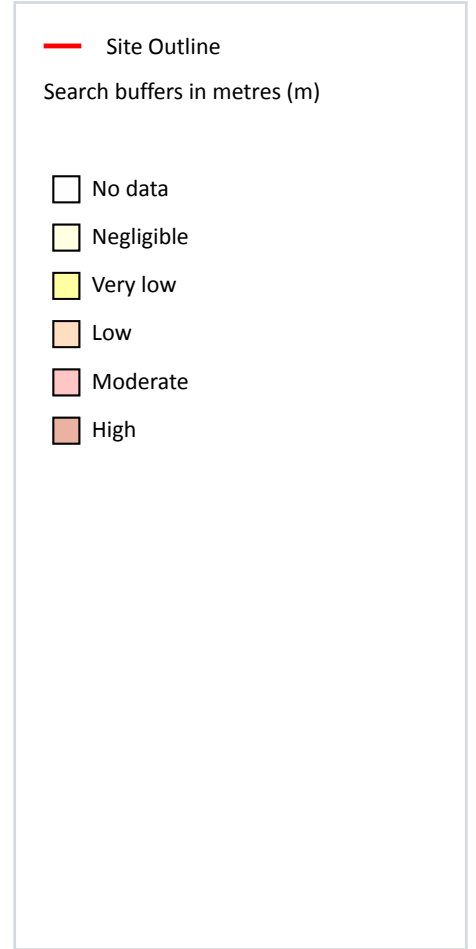
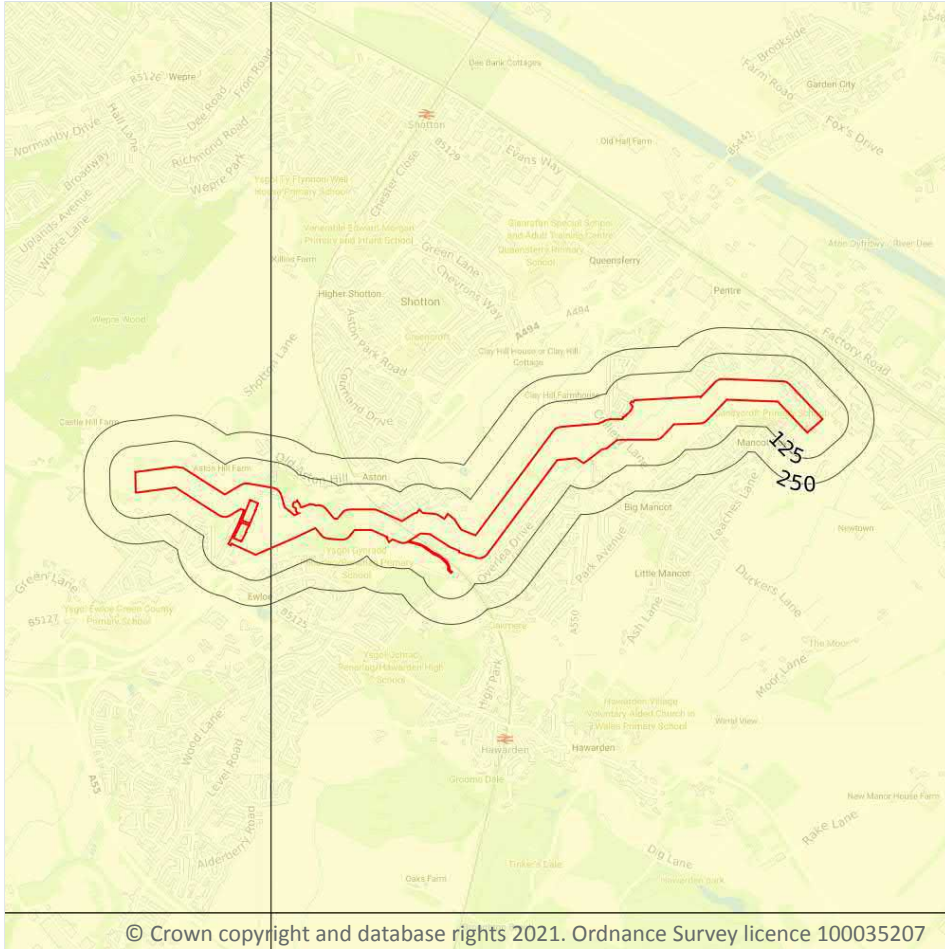
Location	Hazard rating	Details
On site	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

Location	Hazard rating	Details
49m NE	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



17.6 Ground dissolution of soluble rocks

Records within 50m

1

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


Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 214**

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

This data is sourced from the British Geological Survey.

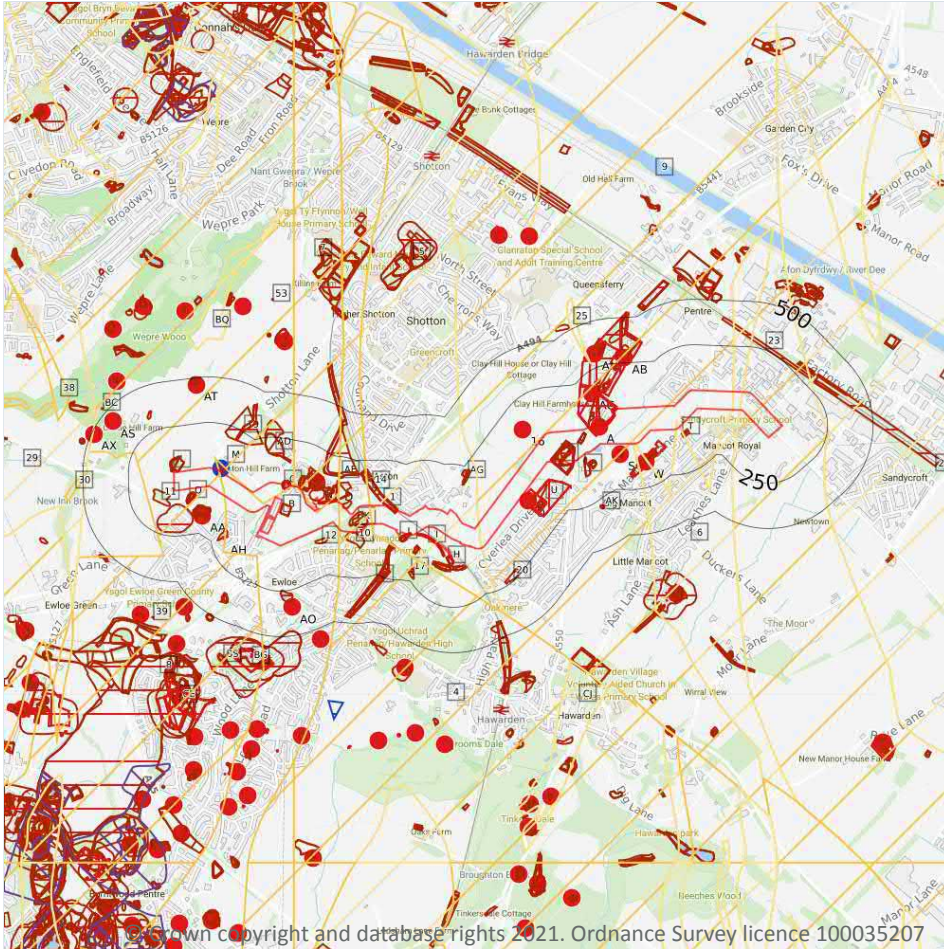


Contact us with any questions at:


08444 159 000

Date: 31 August 2021

18 Mining, ground workings and natural cavities



18.1 Natural cavities

Records within 500m

1

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.

Features are displayed on the Mining, ground workings and natural cavities map on **page 216**

ID	Location	Details	Source
M	18m NE	Type: Swallow Hole x 1 Superficial Geology: - Bedrock Geology: Carboniferous Limestone Supergroup, Lower Coal Measures, Middle Coal Measures, Millstone Grit Group, Upper Carboniferous Limestone	Simple Bibliography: British Geological Survey Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely

This data is sourced from Stantec UK Ltd.

18.2 BritPits

Records within 500m	20
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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.

Features are displayed on the Mining, ground workings and natural cavities map on **page 216**

ID	Location	Details	Description
A	On site	Name: Clay Hill Address: Queensferry, CONNAH'S QUAY, Flintshire Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
A	On site	Name: Clay Hill Address: Queensferry, CONNAH'S QUAY, Flintshire Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
O	44m SE	Name: Aston Hall Address: Ashton, CONNAH'S QUAY, Flintshire Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority



ID	Location	Details	Description
S	54m S	Name: Big Mancot Address: Connah's Quay, CONNAH'S QUAY, Flintshire Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
O	76m SE	Name: Aston Hall Address: Ashton, CONNAH'S QUAY, Flintshire Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
N	84m N	Name: Ricketty Houses Address: Connah's Quay, CONNAH'S QUAY, Flintshire Commodity: Sand Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
D	93m N	Name: Ricketty Houses Address: Connah's Quay, CONNAH'S QUAY, Flintshire Commodity: Sand Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
O	112m SE	Name: Aston Hall Address: Ashton, CONNAH'S QUAY, Flintshire Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority



ID	Location	Details	Description
W	113m SE	Name: Big Mancot Address: Connah's Quay, CONNAH'S QUAY, Flintshire Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
16	114m NW	Name: Queensferry Road OCCS Address: Aston, CONNAH'S QUAY, Flintshire Commodity: Coal, Surface Mined Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
W	143m S	Name: Lower Ash Farm Address: Big Mancot, CONNAH'S QUAY, Flintshire Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
AC	151m NW	Name: Clay Hill Address: Queensferry, CONNAH'S QUAY, Flintshire Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
AA	157m S	Name: Ashton Hill Farm Address: Connah's Quay, CONNAH'S QUAY, Flintshire Commodity: Lead Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority



ID	Location	Details	Description
AH	184m W	Name: Boar's Head Address: Ewloe, BUCKLEY, Flintshire Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
AB	278m N	Name: Mechanic's Arms Address: Queensferry, CONNAH'S QUAY, Flintshire Commodity: Lead Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
AN	324m N	Name: Mechanic's Arms Address: Queensferry, CONNAH'S QUAY, Flintshire Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
AO	343m S	Name: Ewloe Pit Address: Ewloe, BUCKLEY, Flintshire Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
AS	436m NW	Name: Castle Hill Address: Connah's Quay, CONNAH'S QUAY, Flintshire Commodity: Lead Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority



ID	Location	Details	Description
AT	463m N	Name: Wepre Wood Address: Connah's Quay, CONNAH'S QUAY, Flintshire Commodity: Sand Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
AX	488m NW	Name: Castle Hill Brewery Address: Connah's Quay, CONNAH'S QUAY, Flintshire Commodity: Lead Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m

230

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 216**

ID	Location	Land Use	Year of mapping	Mapping scale
1	On site	Cuttings	1967	1:10560
2	On site	Unspecified Pit	1969	1:10560
3	On site	Unspecified Pit	1969	1:10560
A	On site	Unspecified Heap	1938	1:10560
A	On site	Old Colliery	1938	1:10560
A	On site	Clay Pit	1869	1:10560
A	On site	Unspecified Heap	1938	1:10560
A	On site	Old Colliery	1938	1:10560
A	On site	Unspecified Ground Workings	1969	1:10560
A	On site	Unspecified Ground Workings	1989	1:10000
A	On site	Unspecified Ground Workings	1976	1:10000



ID	Location	Land Use	Year of mapping	Mapping scale
A	On site	Old Colliery	1948	1:10560
A	On site	Unspecified Heap	1948	1:10560
A	On site	Old Colliery	1898	1:10560
A	On site	Unspecified Heap	1898	1:10560
A	On site	Colliery	1869	1:10560
A	On site	Unspecified Heap	1909	1:10560
A	On site	Old Colliery	1909	1:10560
B	On site	Covered Reservoir	1991	1:10000
B	On site	Covered Reservoir	1987	1:10000
B	On site	Covered Reservoir	1981	1:10000
C	On site	Unspecified Heap	1991	1:10000
C	On site	Unspecified Heap	1987	1:10000
C	On site	Unspecified Heap	1981	1:10000
C	On site	Unspecified Heap	1970	1:10560
C	On site	Reservoir	1948	1:10560
C	On site	Reservoir	1938	1:10560
D	On site	Sand Pits	1967	1:10560
D	On site	Sand Pits	1948	1:10560
D	On site	Sand Pit	1869	1:10560
D	On site	Sand Pits	1938	1:10560
D	On site	Unspecified Ground Workings	1910	1:10560
E	On site	Cuttings	1967	1:10560
E	On site	Cuttings	1938	1:10560
E	On site	Cuttings	1909	1:10560
F	On site	Brick Works	1938	1:10560
F	On site	Unspecified Pits	1938	1:10560
F	On site	Unspecified Quarry	1869	1:10560
F	On site	Brick Works	1938	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
F	On site	Unspecified Pits	1938	1:10560
F	On site	Unspecified Ground Workings	1969	1:10560
F	On site	Unspecified Ground Workings	1989	1:10000
F	On site	Unspecified Ground Workings	1976	1:10000
F	On site	Unspecified Pits	1967	1:10560
F	On site	Unspecified Pit	1948	1:10560
F	On site	Brick Works	1948	1:10560
F	On site	Unspecified Pit	1898	1:10560
F	On site	Unspecified Pit	1898	1:10560
F	On site	Brick Works	1898	1:10560
F	On site	Brick Works	1869	1:10560
F	On site	Unspecified Ground Workings	1909	1:10560
F	On site	Brick Works	1909	1:10560
G	On site	Unspecified Pit	1938	1:10560
G	On site	Cuttings	1948	1:10560
G	On site	Unspecified Pit	1938	1:10560
G	On site	Cuttings	1910	1:10560
H	On site	Cuttings	1948	1:10560
H	On site	Cuttings	1938	1:10560
H	On site	Cuttings	1909	1:10560
I	On site	Unspecified Ground Workings	1969	1:10560
I	On site	Unspecified Ground Workings	1976	1:10000
J	On site	Unspecified Pit	1969	1:10560
J	On site	Unspecified Pit	1989	1:10000
J	On site	Unspecified Pit	1976	1:10000
K	On site	Unspecified Pit	1969	1:10560
K	On site	Unspecified Heap	1989	1:10000
10	1m S	Refuse Heap	1969	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
L	2m N	Unspecified Heap	1869	1:10560
M	2m NE	Pond	1987	1:10000
N	3m NE	Sand Pits	1967	1:10560
L	4m N	Refuse Heap	1948	1:10560
N	6m NE	Sand Pits	1948	1:10560
J	7m S	Cuttings	1948	1:10560
L	9m NW	Unspecified Heap	1960	1:10560
O	11m SE	Old Colliery	1869	1:10560
L	11m NW	Unspecified Heap	1938	1:10560
L	11m NW	Unspecified Heap	1938	1:10560
N	12m NE	Unspecified Pit	1969	1:10560
N	12m NE	Unspecified Pit	1989	1:10000
N	12m NE	Unspecified Pit	1976	1:10000
J	13m S	Cuttings	1909	1:10560
L	14m NW	Unspecified Ground Workings	1910	1:10560
J	14m S	Cuttings	1938	1:10560
J	15m S	Unspecified Pit	1967	1:10560
P	16m SE	Refuse Heaps	1989	1:10000
N	19m NE	Unspecified Ground Workings	1938	1:10560
N	19m NE	Unspecified Ground Workings	1938	1:10560
N	20m NE	Sand Pits	1910	1:10560
Q	23m S	Unspecified Heap	1987	1:10000
Q	23m S	Unspecified Heap	1981	1:10000
Q	23m S	Unspecified Heap	1948	1:10560
Q	23m S	Unspecified Heap	1898	1:10560
Q	23m S	Unspecified Heap	1910	1:10560
H	26m S	Cuttings	1938	1:10560
R	27m S	Cuttings	1948	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
H	27m SW	Cuttings	1969	1:10560
H	27m SW	Cuttings	1989	1:10000
H	27m SW	Cuttings	1976	1:10000
H	27m SW	Cuttings	1967	1:10560
H	27m SW	Cuttings	1909	1:10560
Q	28m S	Unspecified Heap	1938	1:10560
Q	28m S	Unspecified Heap	1938	1:10560
R	29m S	Cuttings	1909	1:10560
Q	29m S	Unspecified Heap	1960	1:10560
Q	29m S	Unspecified Heap	1970	1:10560
R	29m S	Cuttings	1967	1:10560
Q	29m S	Unspecified Heap	1869	1:10560
S	31m S	Pond	1869	1:10560
R	32m SE	Cuttings	1969	1:10560
R	32m SE	Cuttings	1989	1:10000
R	32m SE	Cuttings	1976	1:10000
H	34m SW	Cuttings	1948	1:10560
H	34m SW	Cuttings	1898	1:10560
11	35m SW	Unspecified Heap	1869	1:10560
T	36m SE	Pond	1898	1:10560
P	42m SE	Refuse Heap	1976	1:10000
T	48m SE	Pond	1869	1:10560
P	50m S	Unspecified Heap	1969	1:10560
P	50m S	Unspecified Heap	1989	1:10000
P	50m S	Unspecified Heap	1976	1:10000
P	50m S	Unspecified Heap	1967	1:10560
A	50m N	Reservoir	1948	1:10560
A	51m N	Reservoir	1938	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
P	51m S	Unspecified Heap	1948	1:10560
P	51m S	Unspecified Heap	1909	1:10560
D	52m NE	Sand Pits	1938	1:10560
P	53m SE	Unspecified Heap	1938	1:10560
P	53m SE	Unspecified Heap	1938	1:10560
U	53m SE	Old Colliery	1948	1:10560
U	53m SE	Old Colliery	1898	1:10560
D	54m NE	Sand Pits	1910	1:10560
12	55m SE	Unspecified Pit	1989	1:10000
N	55m NE	Sand Pits	1898	1:10560
O	58m SE	Old Colliery	1909	1:10560
V	58m S	Pond	1969	1:10560
V	58m S	Pond	1989	1:10000
V	58m S	Pond	1976	1:10000
W	59m S	Colliery	1869	1:10560
X	62m SW	Cuttings	1938	1:10560
X	62m SW	Cuttings	1948	1:10560
X	67m SW	Cuttings	1909	1:10560
13	69m SW	Cuttings	1967	1:10560
D	71m N	Sand Pits	1898	1:10560
Y	75m SW	Cuttings	1969	1:10560
Y	75m SW	Cuttings	1989	1:10000
Y	75m SW	Cuttings	1976	1:10000
14	76m N	Cuttings	1967	1:10560
15	76m S	Old Colliery	1869	1:10560
W	78m SE	Unspecified Heap	1898	1:10560
Z	82m N	Colliery	1869	1:10560
N	85m NE	Sand Pit	1869	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
W	86m SE	Unspecified Ground Workings	1938	1:10560
W	86m SE	Unspecified Ground Workings	1938	1:10560
W	86m SE	Unspecified Heap	1948	1:10560
W	87m SE	Unspecified Heap	1967	1:10560
W	87m SE	Unspecified Heap	1909	1:10560
O	89m SE	Old Colliery	1938	1:10560
O	89m SE	Old Colliery	1938	1:10560
O	93m SE	Unspecified Heap	1909	1:10560
W	95m SE	Unspecified Heap	1869	1:10560
O	95m SE	Unspecified Heap	1948	1:10560
O	96m SE	Unspecified Heap	1938	1:10560
O	96m SE	Unspecified Heap	1938	1:10560
AA	97m S	Unspecified Heap	1898	1:10560
AA	98m S	Unspecified Heap	1970	1:10560
AA	102m S	Unspecified Ground Workings	1910	1:10560
O	104m SE	Unspecified Heap	1869	1:10560
AA	104m S	Unspecified Heap	1869	1:10560
AA	106m S	Unspecified Heap	1960	1:10560
AA	106m S	Unspecified Heap	1948	1:10560
AB	106m NW	Colliery	1909	1:10560
AA	106m S	Unspecified Ground Workings	1938	1:10560
AA	106m S	Unspecified Ground Workings	1938	1:10560
AB	111m N	Colliery	1914	1:10560
AC	118m N	Unspecified Heap	1869	1:10560
AC	120m NW	Unspecified Heap	1948	1:10560
AC	121m NW	Unspecified Heap	1909	1:10560
AC	121m NW	Unspecified Heap	1938	1:10560
AC	121m NW	Unspecified Heap	1938	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
AC	122m NW	Unspecified Heap	1967	1:10560
AC	124m NW	Unspecified Heap	1869	1:10560
AC	126m N	Unspecified Heap	1914	1:10560
AD	127m N	Unspecified Ground Workings	1987	1:10000
AD	127m N	Unspecified Ground Workings	1981	1:10000
AD	127m N	Unspecified Ground Workings	1970	1:10560
AC	132m NW	Unspecified Heap	1967	1:10560
AC	133m NW	Unspecified Heap	1948	1:10560
AE	133m N	Unspecified Ground Workings	1938	1:10560
AE	133m N	Unspecified Ground Workings	1938	1:10560
AC	133m NW	Unspecified Heap	1909	1:10560
AC	133m NW	Unspecified Heap	1938	1:10560
AC	133m NW	Unspecified Heap	1938	1:10560
AC	135m NW	Unspecified Heap	1898	1:10560
AC	136m NW	Unspecified Heap	1914	1:10560
AE	137m N	Unspecified Pit	1898	1:10560
AF	149m N	Cuttings	1938	1:10560
AF	150m N	Cuttings	1948	1:10560
AF	152m N	Cuttings	1910	1:10560
AG	152m NE	Pond	1869	1:10560
AF	153m N	Unspecified Pit	1898	1:10560
AH	153m SW	Refuse Heap	1869	1:10560
W	155m S	Unspecified Heap	1869	1:10560
AF	157m N	Cuttings	1969	1:10560
AF	157m N	Cuttings	1989	1:10000
AF	157m N	Cuttings	1976	1:10000
X	163m S	Cuttings	1898	1:10560
AG	166m NE	Pond	1948	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
AG	166m NE	Pond	1898	1:10560
AC	168m NW	Unspecified Heap	1898	1:10560
AI	170m S	Cuttings	1969	1:10560
AI	170m S	Cuttings	1989	1:10000
AI	170m S	Cuttings	1976	1:10000
17	173m SW	Unspecified Pit	1869	1:10560
18	179m N	Unspecified Heap	1991	1:10000
19	188m NE	Unspecified Pit	1991	1:10000
AG	196m NE	Pond	1989	1:10000
AG	196m NE	Pond	1976	1:10000
AJ	197m NE	Unspecified Ground Workings	1987	1:10000
AJ	197m NE	Unspecified Ground Workings	1981	1:10000
AJ	197m NE	Unspecified Ground Workings	1970	1:10560
X	203m SW	Cuttings	1967	1:10560
AB	210m N	Unspecified Heap	1869	1:10560
20	214m SE	Sewage Works	1948	1:10560
X	218m S	Cuttings	1869	1:10560
X	223m S	Cuttings	1869	1:10560
X	241m SW	Cuttings	1969	1:10560
X	241m SW	Cuttings	1989	1:10000
X	241m SW	Cuttings	1976	1:10000
22	247m S	Pond	1991	1:10000
23	249m NE	Unspecified Pit	1914	1:10560

This data is sourced from Ordnance Survey/Groundsure.



18.4 Underground workings

Records within 1000m

109

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 216**

ID	Location	Land Use	Year of mapping	Mapping scale
A	On site	Unspecified Old Mine	1960	1:10560
A	On site	Old Colliery	1948	1:10560
A	On site	Old Colliery	1898	1:10560
A	On site	Unspecified Shafts	1898	1:10560
A	On site	Colliery	1869	1:10560
A	On site	Unspecified Shafts	1869	1:10560
O	11m SE	Old Colliery	1869	1:10560
O	40m SE	Unspecified Old Shaft	1960	1:10560
O	40m SE	Unspecified Old Shaft	1948	1:10560
O	40m SE	Unspecified Shaft	1898	1:10560
U	53m SE	Old Colliery	1948	1:10560
U	53m SE	Old Colliery	1898	1:10560
W	59m S	Colliery	1869	1:10560
Z	82m N	Colliery	1869	1:10560
O	102m SE	Unspecified Old Shaft	1948	1:10560
O	102m SE	Unspecified Shaft	1898	1:10560
W	105m S	Unspecified Old Shaft	1948	1:10560
W	105m S	Unspecified Old Shaft	1898	1:10560
W	107m S	Unspecified Old Shaft	1960	1:10560
AB	111m N	Colliery	1910	1:10560
W	118m S	Unspecified Shaft	1869	1:10560
AA	125m S	Unspecified Old Shaft	1948	1:10560
AA	125m S	Unspecified Shaft	1898	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
AA	130m S	Unspecified Old Shaft	1960	1:10560
AC	141m N	Unspecified Shafts	1869	1:10560
AC	143m NW	Unspecified Shafts	1869	1:10560
AC	152m NW	Unspecified Shaft	1898	1:10560
AH	157m W	Unspecified Old Shafts	1960	1:10560
AH	162m W	Old Coal Shafts	1948	1:10560
AH	162m W	Unspecified Old Shafts	1898	1:10560
W	164m S	Unspecified Shaft	1869	1:10560
AH	177m W	Unspecified Old Shafts	1960	1:10560
AH	183m W	Old Coal Shafts	1948	1:10560
AH	183m W	Unspecified Old Shafts	1898	1:10560
AB	217m N	Unspecified Shafts	1898	1:10560
AB	234m N	Unspecified Shaft	1869	1:10560
AB	240m N	Unspecified Shafts	1898	1:10560
AB	270m N	Unspecified Shaft	1869	1:10560
AB	271m N	Unspecified Shafts	1898	1:10560
AB	280m N	Unspecified Shafts	1898	1:10560
AK	288m SE	Coal Pit	1869	1:10560
AB	311m N	Unspecified Shafts	1898	1:10560
AO	342m S	Unspecified Disused Shafts	1991	1:10000
AO	342m S	Unspecified Disused Shafts	1987	1:10000
AO	342m S	Unspecified Disused Shafts	1981	1:10000
AO	346m S	Unspecified Old Shafts	1898	1:10560
AO	351m S	Unspecified Disused Shafts	1991	1:10000
AO	351m S	Unspecified Disused Shafts	1987	1:10000
AO	351m S	Unspecified Disused Shafts	1981	1:10000
AO	356m S	Unspecified Old Shafts	1898	1:10560
AS	443m NW	Unspecified Levels	1898	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
AS	448m NW	Unspecified Levels	1898	1:10560
AX	492m NW	Unspecified Old Shaft	1898	1:10560
BC	524m NW	Unspecified Old Shaft	1898	1:10560
BF	557m SW	Unspecified Old Shafts	1960	1:10560
BF	558m SW	Old Coal Shafts	1948	1:10560
BF	558m SW	Unspecified Old Shaft	1898	1:10560
BF	571m SW	Unspecified Old Shafts	1960	1:10560
BF	573m SW	Old Coal Shafts	1948	1:10560
BF	582m SW	Old Coal Shafts	1948	1:10560
BF	582m SW	Unspecified Old Shaft	1898	1:10560
BF	582m SW	Unspecified Disused Shaft	1970	1:10560
BF	585m SW	Unspecified Disused Shaft	1981	1:10000
BG	600m S	Unspecified Old Mine	1960	1:10560
BG	617m S	Unspecified Shaft	1869	1:10560
BG	627m S	Old Coal Shaft	1948	1:10560
BG	627m S	Unspecified Shafts	1898	1:10560
BP	644m S	Unspecified Shaft	1869	1:10560
BP	653m S	Old Coal Shafts	1948	1:10560
BP	653m S	Unspecified Shafts	1898	1:10560
BP	655m S	Unspecified Old Shafts	1960	1:10560
AU	657m S	Unspecified Shaft	1869	1:10560
AU	675m S	Unspecified Shafts	1898	1:10560
BS	695m S	Unspecified Old Shafts	1960	1:10560
BS	695m S	Old Coal Shafts	1948	1:10560
BS	695m S	Unspecified Old Shaft	1898	1:10560
39	704m S	Coal Pit	1898	1:10560
BT	710m S	Unspecified Shaft	1898	1:10560
CD	761m N	Unspecified Old Shafts	1898	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
CD	787m N	Unspecified Old Shafts	1898	1:10560
CD	799m N	Unspecified Old Shafts	1898	1:10560
BW	839m S	Unspecified Shafts	1869	1:10560
BW	858m S	Unspecified Shafts	1869	1:10560
BW	876m S	Unspecified Shaft	1898	1:10560
CW	914m N	Unspecified Old Shafts	1898	1:10560
CW	919m N	Unspecified Old Shafts	1898	1:10560
CE	929m SW	Colliery	1898	1:10560
CE	941m SW	Colliery	1869	1:10560
CT	949m S	Unspecified Disused Shaft	1969	1:10560
CT	949m S	Unspecified Disused Shaft	1989	1:10000
CT	949m S	Unspecified Disused Shaft	1976	1:10000
CE	962m SW	Unspecified Disused Mine	1960	1:10560
CZ	965m S	Unspecified Disused Shafts	1969	1:10560
CZ	965m S	Unspecified Disused Shafts	1976	1:10000
CZ	968m S	Unspecified Old Shaft	1960	1:10560
CZ	968m S	Unspecified Disused Shaft	1989	1:10000
CZ	968m S	Old Coal Shaft	1948	1:10560
CZ	968m S	Unspecified Old Shaft	1898	1:10560
CE	975m SW	Unspecified Shaft	1869	1:10560
53	979m N	Unspecified Old Shafts	1898	1:10560
DC	994m S	Unspecified Disused Shafts	1969	1:10560
DC	994m S	Unspecified Disused Shafts	1976	1:10000
DC	994m S	Old Coal Shaft	1948	1:10560
DC	994m S	Unspecified Old Shafts	1898	1:10560
DC	997m S	Unspecified Disused Shaft	1989	1:10000
DC	997m S	Unspecified Old Shafts	1960	1:10560
DD	999m S	Unspecified Disused Shafts	1969	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
DD	999m S	Unspecified Disused Shafts	1989	1:10000
DD	999m S	Unspecified Disused Shafts	1976	1:10000

This is data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m	0
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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	15
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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 216**

ID	Location	Name	Commodity	Class	Likelihood
4	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
5	On site	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
6	On site	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
7	On site	Not available	Iron Ore (Bedded)	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



ID	Location	Name	Commodity	Class	Likelihood
8	On site	Not available	Iron Ore (Bedded)	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
9	On site	Not available	Iron Ore (Bedded)	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
21	225m E	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
25	301m NW	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
29	479m W	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
30	480m W	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
BQ	654m 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
38	691m 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
42	756m 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
CJ	789m SE	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



ID	Location	Name	Commodity	Class	Likelihood
44	871m 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

1

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

Location	Details
On site	In addition to being located inside an area where The Coal Authority have information on coal mining activities, Johnson Poole & Bloomer (JPB) have information such as mining plans and maps held within their archive of mining activities that have occurred within 1km of this property which may supplement this information. Please note, the plans held by JPB may also relate to non-mining records. Further details and a quote for services (if appropriate) can be obtained by emailing this report to enquiries.gs@jpb.co.uk .

This data is sourced from Johnson Poole and Bloomer.

18.9 Coal mining

Records on site

1

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

Location	Details
On site	The site is located within a coal mining area as defined by the Coal Authority. A Consultants Coal Mining Report is recommended to further assess coal mining issues at the site. This can be ordered directly through Groundsure or your preferred search provider.

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

Generalised areas that may be affected by historical tin mining.

This data is sourced from Mining Searches UK.

18.13 Clay mining

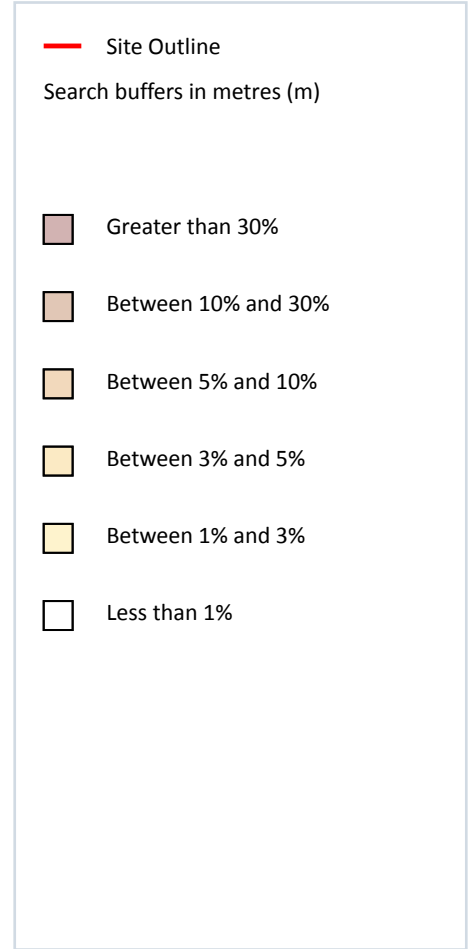
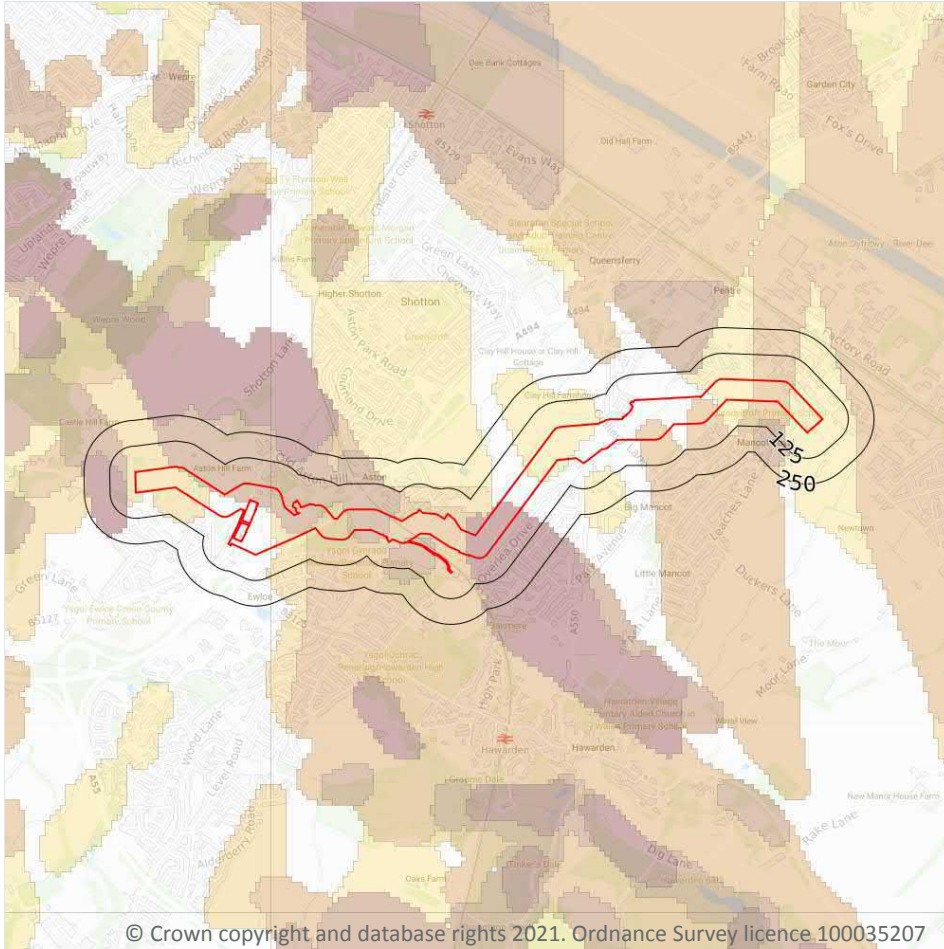
Records on site

0

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



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19.1 Radon

Records on site

6

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 238](#)

Location	Estimated properties affected	Radon Protection Measures required
On site	Less than 1%	None**
On site	Between 1% and 3%	None



Location	Estimated properties affected	Radon Protection Measures required
On site	Between 3% and 5%	Basic
On site	Between 10% and 30%	Full
On site	Greater than 30%	Full
On site	Between 5% and 10%	Basic

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

80

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	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 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
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	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	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	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	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	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	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	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	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	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	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg



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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 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



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	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	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	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	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	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	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	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	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	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	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	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	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	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	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 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
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



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	60 mg/kg	1.8 mg/kg	90 - 120 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
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	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 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
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	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	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 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
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	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	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	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 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
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
2m E	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
3m NE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
6m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
12m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
14m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
14m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
16m NE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
18m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
26m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
32m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
34m SW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
36m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
36m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
37m NW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
41m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
42m SW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
46m W	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

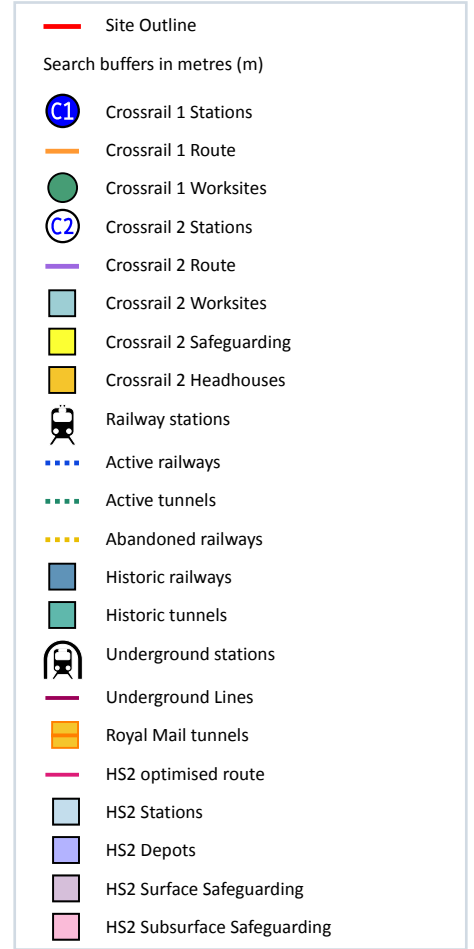
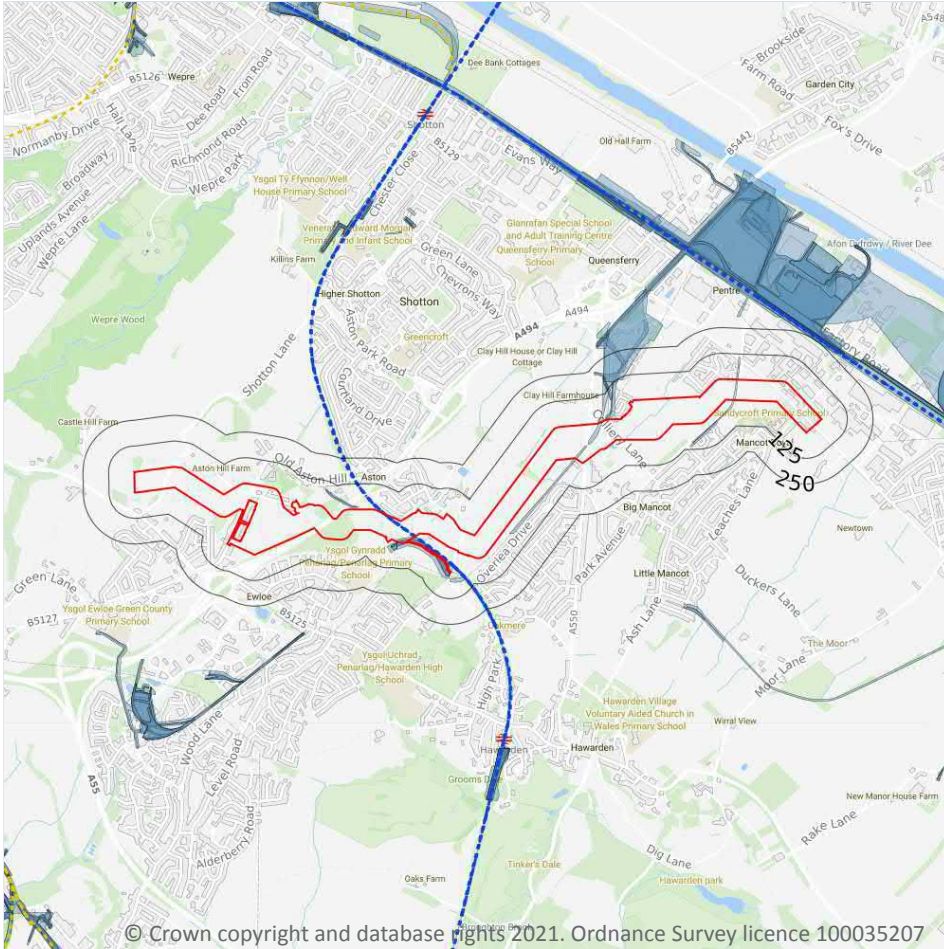
Records within 50m

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	25
----------------------------	-----------

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.

Features are displayed on the Railway infrastructure and projects map on **page 246**

Location	Land Use	Year of mapping	Mapping scale
On site	Railway Sidings	1899	2500
On site	Railway Sidings	1912	2500
On site	Railway Sidings	1870	2500
On site	Railway Sidings	1948	10560
On site	Railway Sidings	1898	10560
On site	Railway Sidings	1938	10560
On site	Railway Sidings	1909	10560
On site	Railway Sidings	1869	10560
0m S	Railway Sidings	1938	10560
3m S	Railway Sidings	1948	10560
3m S	Railway Sidings	1898	10560
5m N	Railway Sidings	1869	10560
6m S	Railway Sidings	1909	10560
10m S	Railway Sidings	1912	2500
11m S	Railway Sidings	1899	2500
13m N	Railway Sidings	1870	2500
27m S	Railway Sidings	1948	10560



Location	Land Use	Year of mapping	Mapping scale
39m SE	Railway Sidings	1869	10560
84m W	Railway Sidings	1898	10560
87m W	Railway Sidings	1899	2500
111m N	Railway Sidings	1914	10560
119m NW	Railway Sidings	1911	2500
120m NW	Railway Sidings	1909	10560
180m N	Railway Sidings	1911	2500
249m NE	Railway Sidings	1914	10560

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	18
----------------------------	-----------

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways. Features are displayed on the Railway infrastructure and projects map on **page 246**

Location	Name	Type
On site	Borderlands Line	rail



Location	Name	Type
On site	Borderlands Line	rail
On site	Not given	Multi Track
On site	Not given	Multi Track
On site	Not given	Multi Track
On site	Not given	Multi Track
On site	Not given	Multi Track
8m NE	Not given	Multi Track
15m NE	Borderlands Line	rail
19m NE	Borderlands Line	rail
27m NE	Borderlands Line	rail
30m N	Not given	Multi Track
31m NE	Borderlands Line	rail
54m E	Not given	Multi Track
70m E	Not given	Multi Track
91m N	Not given	Multi Track
157m N	Not given	Multi Track
167m N	Not given	Multi Track

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>.

Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: <https://www.groundsure.com/terms-and-conditions-jan-2020/>.



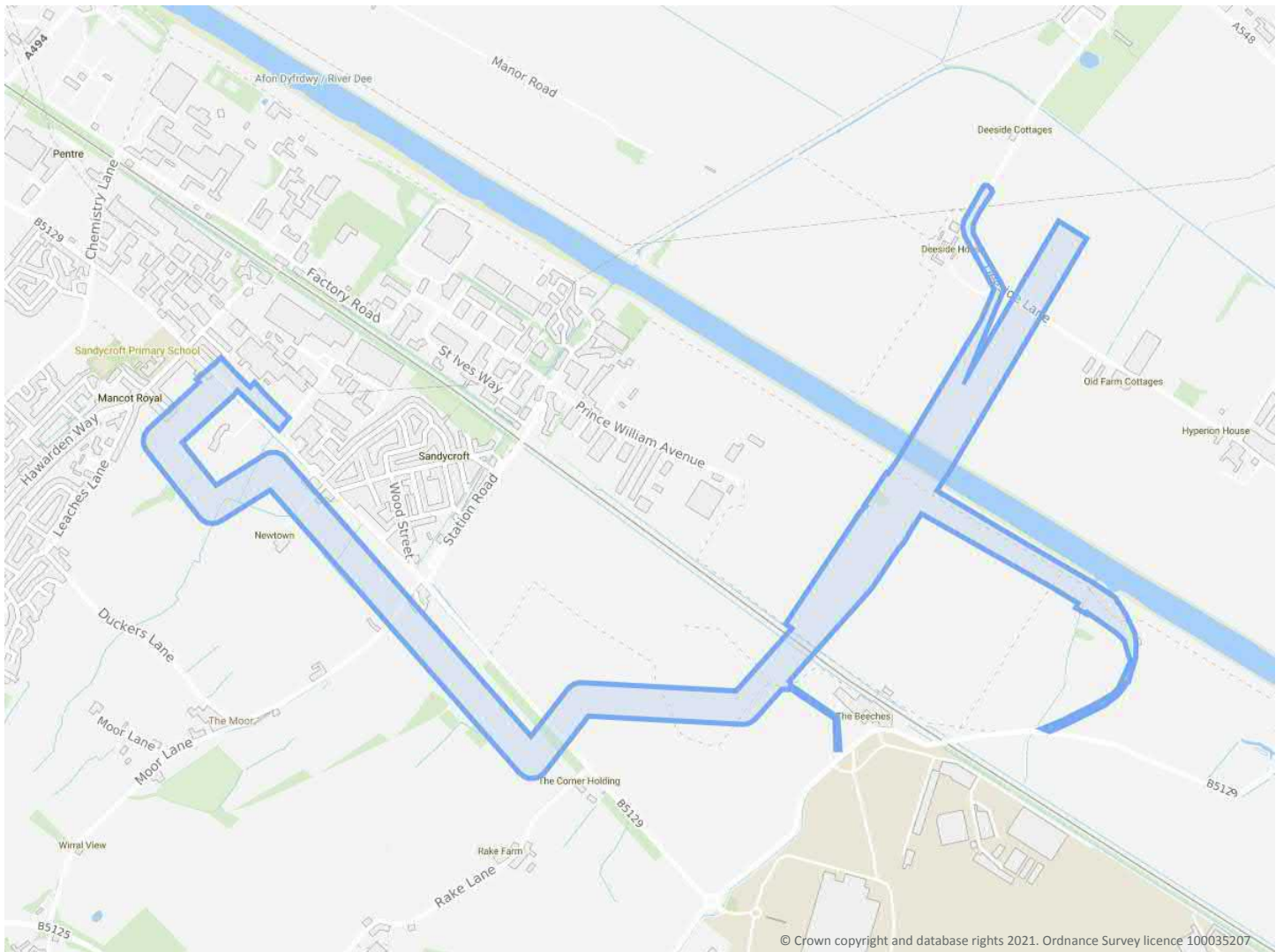
DCO Pipeline, Southern Route

Order Details

Date: 31/08/2021
Your ref: DCO Pipeline, Southern Route
Our Ref: GSIP-2021-10877-7381_D
Client: WSP UK LIMITED

Site Details

Location: 334303 366858
Area: 58.76 ha
Authority: [Sir y Fflint - Flintshire County Council](#)



Summary of findings

p. 2

Aerial image

p. 8

OS MasterMap site plan

N/A: >10ha

groundsure.com/insightuserguide

Contact us with any questions at:

08444 159 000

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
13	1.1	<u>Historical industrial land uses</u>	11	11	15	77	-
18	1.2	<u>Historical tanks</u>	1	4	19	37	-
20	1.3	<u>Historical energy features</u>	0	0	7	12	-
21	1.4	Historical petrol stations	0	0	0	0	-
22	1.5	<u>Historical garages</u>	0	0	3	0	-
22	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
23	2.1	<u>Historical industrial land uses</u>	13	14	17	90	-
28	2.2	<u>Historical tanks</u>	1	5	29	57	-
32	2.3	<u>Historical energy features</u>	0	0	13	26	-
34	2.4	Historical petrol stations	0	0	0	0	-
34	2.5	<u>Historical garages</u>	0	0	4	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
35	3.1	Active or recent landfill	0	0	0	0	-
35	3.2	Historical landfill (BGS records)	0	0	0	0	-
36	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
36	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
36	3.5	<u>Historical waste sites</u>	0	0	0	5	-
37	3.6	<u>Licensed waste sites</u>	0	0	0	18	-
42	3.7	<u>Waste exemptions</u>	1	0	7	123	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
56	4.1	<u>Recent industrial land uses</u>	0	5	27	-	-
58	4.2	Current or recent petrol stations	0	0	0	0	-
59	4.3	Electricity cables	0	0	0	0	-
59	4.4	Gas pipelines	0	0	0	0	-
59	4.5	Sites determined as Contaminated Land	0	0	0	0	-



59	4.6	<u>Control of Major Accident Hazards (COMAH)</u>	1	0	2	0	-
60	4.7	Regulated explosive sites	0	0	0	0	-
60	4.8	<u>Hazardous substance storage/usage</u>	0	0	1	0	-
60	4.9	<u>Historical licensed industrial activities (IPC)</u>	0	0	0	4	-
61	4.10	<u>Licensed industrial activities (Part A(1))</u>	0	0	24	20	-
70	4.11	<u>Licensed pollutant release (Part A(2)/B)</u>	1	0	0	6	-
71	4.12	Radioactive Substance Authorisations	0	0	0	0	-
71	4.13	<u>Licensed Discharges to controlled waters</u>	0	2	8	5	-
73	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
73	4.15	Pollutant release to public sewer	0	0	0	0	-
73	4.16	List 1 Dangerous Substances	0	0	0	0	-
74	4.17	List 2 Dangerous Substances	0	0	0	0	-
74	4.18	<u>Pollution Incidents (EA/NRW)</u>	5	18	60	73	-
90	4.19	Pollution inventory substances	0	0	0	0	-
90	4.20	Pollution inventory waste transfers	0	0	0	0	-
90	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
91	5.1	<u>Superficial aquifer</u>	Identified (within 500m)				
93	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
95	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
97	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
97	5.5	Groundwater vulnerability- local information	None (within 0m)				
98	5.6	<u>Groundwater abstractions</u>	1	0	0	1	12
101	5.7	<u>Surface water abstractions</u>	4	0	0	1	7
104	5.8	Potable abstractions	0	0	0	0	0
104	5.9	<u>Source Protection Zones</u>	2	0	0	0	-
105	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
106	6.1	<u>Water Network (OS MasterMap)</u>	20	23	58	-	-



114	6.2	Surface water features	1	12	26	-	-
115	6.3	WFD Surface water body catchments	3	-	-	-	-
115	6.4	WFD Surface water bodies	2	0	1	-	-
116	6.5	WFD Groundwater bodies	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
117	7.1	Risk of Flooding from Rivers and Sea (RoFRaS)	High (within 50m)				
118	7.2	Historical Flood Events	5	2	0	-	-
118	7.3	Flood Defences	2	0	2	-	-
119	7.4	Areas Benefiting from Flood Defences	7	0	5	-	-
120	7.5	Flood Storage Areas	0	0	0	-	-
121	7.6	Flood Zone 2	Identified (within 50m)				
122	7.7	Flood Zone 3	Identified (within 50m)				
Page	Section	Surface water flooding					
123	8.1	Surface water flooding	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding					
125	9.1	Groundwater flooding	High (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
126	10.1	Sites of Special Scientific Interest (SSSI)	1	0	0	0	0
127	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
127	10.3	Special Areas of Conservation (SAC)	1	0	0	0	0
128	10.4	Special Protection Areas (SPA)	0	0	0	0	0
128	10.5	National Nature Reserves (NNR)	0	0	0	0	0
128	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
128	10.7	Designated Ancient Woodland	0	0	0	0	22
129	10.8	Biosphere Reserves	0	0	0	0	0
130	10.9	Forest Parks	0	0	0	0	0
130	10.10	Marine Conservation Zones	0	0	0	0	0
130	10.11	Green Belt	0	0	0	0	1
130	10.12	Proposed Ramsar sites	0	0	0	0	0



131	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
131	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
131	10.15	Nitrate Sensitive Areas	0	0	0	0	0
131	10.16	<u>Nitrate Vulnerable Zones</u>	0	0	0	0	4
133	10.17	<u>SSSI Impact Risk Zones</u>	2	-	-	-	-
134	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
135	11.1	World Heritage Sites	0	0	0	-	-
136	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
136	11.3	National Parks	0	0	0	-	-
136	11.4	<u>Listed Buildings</u>	0	0	1	-	-
137	11.5	Conservation Areas	0	0	0	-	-
137	11.6	Scheduled Ancient Monuments	0	0	0	-	-
137	11.7	Registered Parks and Gardens	0	0	0	-	-

Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
138	12.1	<u>Agricultural Land Classification</u>	Grade 3a (within 250m)				
139	12.2	Open Access Land	0	0	0	-	-
139	12.3	Tree Felling Licences	0	0	0	-	-
139	12.4	Environmental Stewardship Schemes	0	0	0	-	-
139	12.5	Countryside Stewardship Schemes	0	0	0	-	-

Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
140	13.1	Priority Habitat Inventory	0	0	0	-	-
140	13.2	Habitat Networks	0	0	0	-	-
140	13.3	Open Mosaic Habitat	0	0	0	-	-
140	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
141	14.1	<u>10k Availability</u>	Identified (within 500m)				
142	14.2	Artificial and made ground (10k)	0	0	0	0	-
143	14.3	Superficial geology (10k)	0	0	0	0	-



143	14.4	Landslip (10k)	0	0	0	0	-
144	14.5	Bedrock geology (10k)	0	0	0	0	-
144	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
145	15.1	<u>50k Availability</u>	Identified (within 500m)				
146	15.2	<u>Artificial and made ground (50k)</u>	2	0	0	1	-
147	15.3	<u>Artificial ground permeability (50k)</u>	3	0	-	-	-
148	15.4	<u>Superficial geology (50k)</u>	2	0	0	0	-
149	15.5	<u>Superficial permeability (50k)</u>	Identified (within 50m)				
149	15.6	Landslip (50k)	0	0	0	0	-
149	15.7	Landslip permeability (50k)	None (within 50m)				
150	15.8	<u>Bedrock geology (50k)</u>	6	2	2	3	-
151	15.9	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
152	15.10	<u>Bedrock faults and other linear features (50k)</u>	4	3	1	3	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
153	16.1	<u>BGS Boreholes</u>	2	20	42	-	-
Page	Section	Natural ground subsidence					
157	17.1	<u>Shrink swell clays</u>	Very low (within 50m)				
158	17.2	<u>Running sands</u>	Moderate (within 50m)				
160	17.3	<u>Compressible deposits</u>	Moderate (within 50m)				
162	17.4	<u>Collapsible deposits</u>	Very low (within 50m)				
163	17.5	<u>Landslides</u>	Very low (within 50m)				
164	17.6	<u>Ground dissolution of soluble rocks</u>	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
166	18.1	Natural cavities	0	0	0	0	-
167	18.2	<u>BritPits</u>	0	0	1	0	-
167	18.3	<u>Surface ground workings</u>	2	10	1	-	-
168	18.4	<u>Underground workings</u>	0	0	0	1	39
169	18.5	Historical Mineral Planning Areas	0	0	0	0	-



170	18.6	<u>Non-coal mining</u>	2	1	0	0	0
170	18.7	Mining cavities	0	0	0	0	0
170	18.8	<u>JPB mining areas</u>	Identified (within 0m)				
171	18.9	<u>Coal mining</u>	Identified (within 0m)				
171	18.10	Brine areas	None (within 0m)				
171	18.11	Gypsum areas	None (within 0m)				
172	18.12	Tin mining	None (within 0m)				
172	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
173	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
175	20.1	<u>BGS Estimated Background Soil Chemistry</u>	26	13	-	-	-
176	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
177	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
178	21.1	Underground railways (London)	0	0	0	-	-
178	21.2	Underground railways (Non-London)	0	0	0	-	-
179	21.3	Railway tunnels	0	0	0	-	-
179	21.4	<u>Historical railway and tunnel features</u>	3	0	5	-	-
179	21.5	Royal Mail tunnels	0	0	0	-	-
180	21.6	Historical railways	0	0	0	-	-
180	21.7	<u>Railways</u>	3	0	1	-	-
180	21.8	Crossrail 1	0	0	0	0	-
180	21.9	Crossrail 2	0	0	0	0	-
181	21.10	HS2	0	0	0	0	-

Recent aerial photograph




Capture Date: 10/04/2020

Site Area: 58.76ha



Contact us with any questions at:


08444 159 000

Date: 31 August 2021

Recent site history - 2017 aerial photograph



Capture Date: 07/05/2017

Site Area: 58.76ha



Contact us with any questions at:

08444 159 000

Date: 31 August 2021

Recent site history - 2013 aerial photograph



Capture Date: 04/06/2013

Site Area: 58.76ha

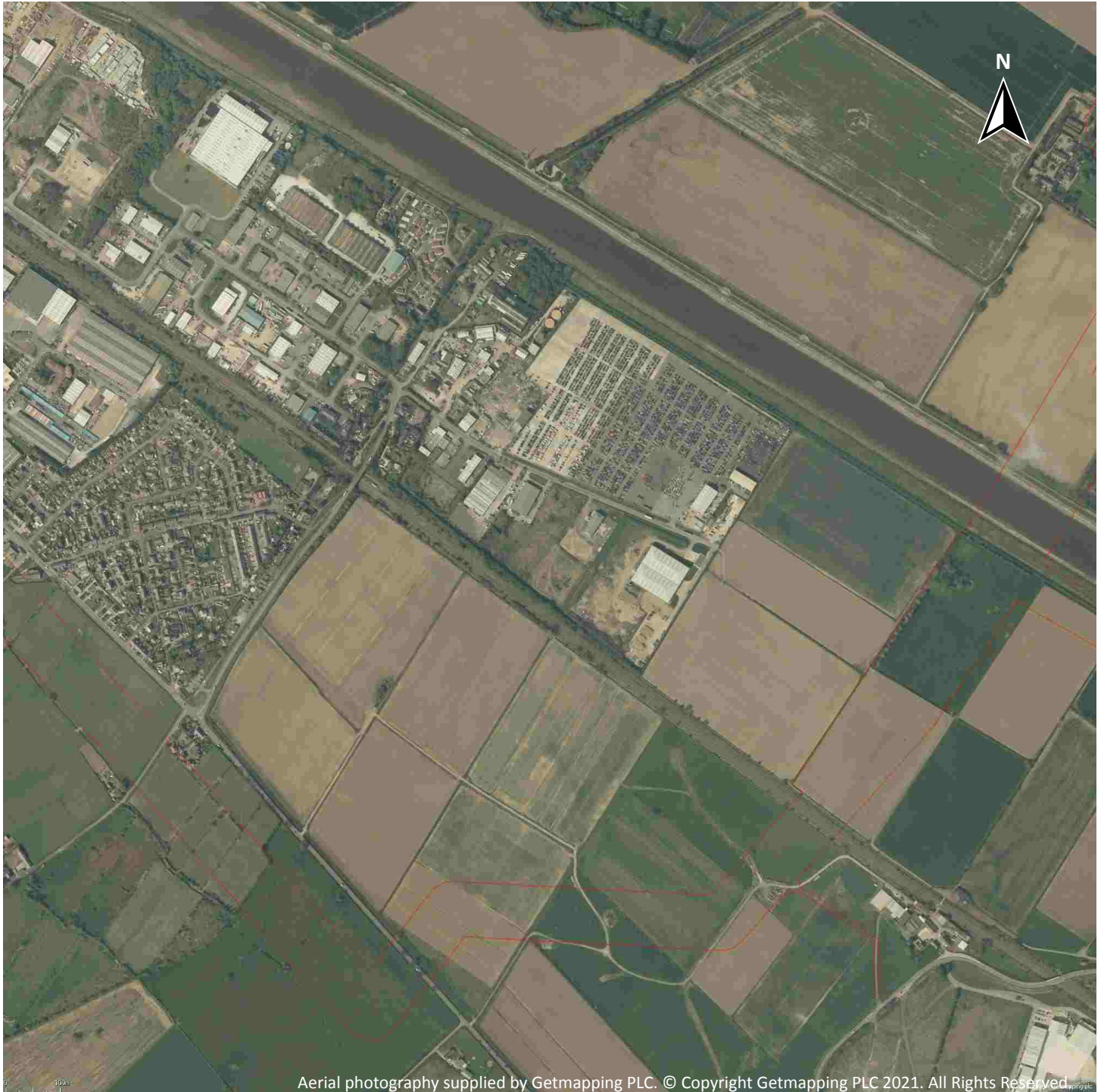


Contact us with any questions at:

08444 159 000

Date: 31 August 2021

Recent site history - 2009 aerial photograph




Capture Date: 20/04/2009

Site Area: 58.76ha



Contact us with any questions at:


08444 159 000

Date: 31 August 2021

Recent site history - 2000 aerial photograph



Capture Date: 25/08/2000

Site Area: 58.76ha

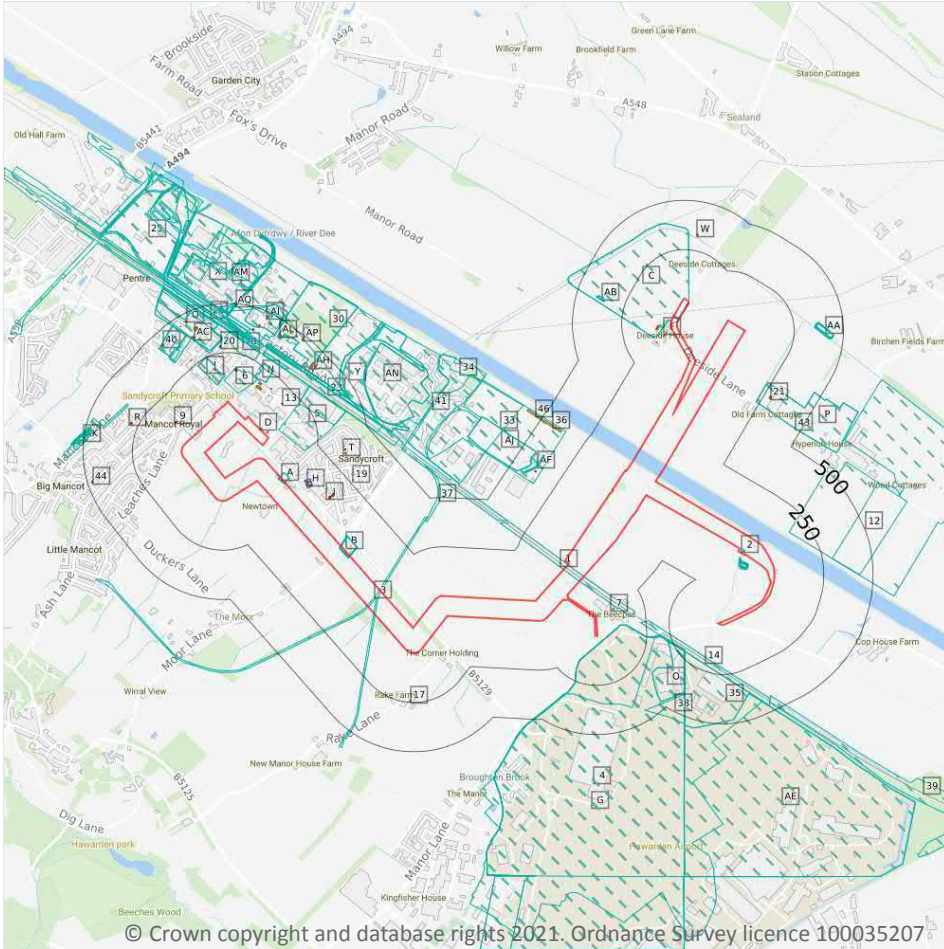


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Date: 31 August 2021

1 Past land use



Site Outline

Search buffers in metres (m)

-  Historical industrial land uses
-  Historical tanks
-  Historical energy features
-  Historical garages

1.1 Historical industrial land uses

Records within 500m **114**

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 13**

ID	Location	Land use	Dates present	Group ID
1	On site	Railway Sidings	1898	794483



ID	Location	Land use	Dates present	Group ID
2	On site	Unspecified Tank	1938	823907
3	On site	Railway Sidings	1869	899983
A	On site	Unspecified Works	1976	887739
A	On site	Unspecified Works	1989	850953
B	On site	Engineering Works	1948	811583
B	On site	Unspecified Works	1960	913883
B	On site	Unspecified Works	1969 - 1976	916874
B	On site	Unspecified Works	1989	917578
C	On site	Nursery	1976 - 1989	941696
C	On site	Nursery	1969	950364
E	24m SW	Unspecified Heap	1913	907561
E	24m SW	Unspecified Ground Workings	1938	799522
E	26m SW	Unspecified Heap	1948	860027
E	30m SW	Unspecified Heap	1938	909687
4	35m SE	Airport	1976	922848
G	35m SE	Airfield	1960	888073
G	35m SE	Airport	1982 - 1989	906935
G	35m SE	Airfield	1966	917925
G	35m SE	Airport	1969	991563
E	40m SW	Unspecified Heap	1968 - 1974	884408
E	40m SW	Unspecified Heap	1989	878864
5	65m NE	Unspecified Works	1976	856256
6	67m NE	Unspecified Works	1969	830087
I	100m NW	Unspecified Depot	1976	930588
I	103m NW	Unspecified Depot	1989	875842
12	151m NE	Nursery	1913	991736
14	180m SW	Railway Sidings	1898	794485
N	185m NE	Unspecified Warehouse	1989	935972



ID	Location	Land use	Dates present	Group ID
N	185m NE	Unspecified Warehouse	1976	984849
15	211m SW	Airfield	1948	883826
O	221m SW	Unspecified Depot	1989	918756
O	221m SW	Unspecified Depot	1969 - 1976	929537
P	232m SE	Nursery	1989	898994
P	232m SE	Nursery	1968 - 1974	968504
16	233m NE	Unspecified Works	1989	852609
18	245m N	Unspecified Works	1969	830086
Q	265m N	Unspecified Works	1989	892866
Q	272m N	Unspecified Works	1976	872879
Q	275m N	Unspecified Works	1969	985990
23	295m NE	Cuttings	1948	795368
24	300m E	Nursery	1914 - 1938	970522
25	300m NE	Railway Sidings	1898	855202
S	301m NE	Unspecified Pit	1914	839205
26	302m NE	Unspecified Pit	1914	839209
27	324m N	Railway Sidings	1914	929950
28	326m N	Railway Sidings	1869 - 1898	947817
U	326m NE	Cuttings	1960	795402
V	327m NW	Disused Wire Works	1869	832059
29	334m N	Railway Sidings	1938	986490
S	336m NE	Unspecified Pit	1914	839206
U	336m NE	Unspecified Pit	1914	839204
X	337m N	Railway Sidings	1960	917177
X	337m N	Railway Sidings	1969	957506
30	337m N	Railway Sidings	1948	940526
V	339m NW	Corn Mill	1898	904360
Y	340m NE	Railway Sidings	1989	868782



ID	Location	Land use	Dates present	Group ID
Y	340m NE	Railway Sidings	1960	890455
Y	340m NE	Railway Sidings	1969 - 1976	961262
Z	343m N	Railway Sidings	1909	977985
31	343m N	Railway Building	1938	819511
32	347m NW	Railway Sidings	1869	794484
U	348m N	Unspecified Pit	1914	839208
33	352m NW	Unspecified Works	1969	987999
AA	354m E	Unspecified Heap	1968	978284
AB	355m W	Sand Pit	1909	961741
AB	355m W	Sand Pit	1938 - 1948	981430
34	356m NW	Railway Sidings	1898	876090
AB	356m W	Sand Pit	1914	868588
AB	356m W	Sand Pit	1960	989384
AA	358m E	Unspecified Heap	1898	910295
AA	358m E	Unspecified Heap	1938	940750
AA	359m E	Unspecified Heap	1974	846700
AA	359m E	Unspecified Heap	1989	921857
AD	366m NW	Unspecified Depot	1976	870383
AD	366m NW	Unspecified Depot	1989	892504
U	370m NE	Unspecified Factory	1960	821305
AE	370m S	Aircraft Factory	1974 - 1989	861247
AE	370m S	Aircraft Factory	1968	976461
AF	381m NW	Unspecified Ground Workings	1969 - 1976	963060
AF	381m NW	Unspecified Ground Workings	1989	985605
37	385m N	Railway Sidings	1869	906651
AG	389m NE	Unspecified Works	1976	982976
AG	390m NE	Unspecified Works	1989	881656
38	402m SW	Unspecified Depot	1969	818227



ID	Location	Land use	Dates present	Group ID
AI	405m N	Unspecified Depot	1989	920251
AI	405m N	Unspecified Depot	1969 - 1976	984152
AJ	413m NW	Unspecified Works	1989	909456
AJ	415m NW	Unspecified Works	1976	858592
AK	424m W	Colliery	1869	798229
39	424m SE	Railway Sidings	1898	944426
AM	445m N	Engineering Works	1909 - 1914	974477
AI	446m NE	Cheese Factory	1938 - 1948	939848
AM	446m N	Unspecified Works	1938 - 1948	981335
41	447m NE	Unspecified Works	1960	970833
Z	449m N	Unspecified Works	1969	939017
42	451m N	Unspecified Works	1960	855852
AN	457m NE	Unspecified Depot	1989	872045
AN	457m NE	Unspecified Depot	1969 - 1976	922778
AK	464m W	Unspecified Heap	1869	857554
AK	470m W	Unspecified Heap	1898	892564
AO	470m NW	Sawmill	1948	808343
AI	471m NE	Unspecified Tank	1976	858773
AK	471m W	Unspecified Heap	1948	956585
AK	472m W	Unspecified Heap	1909	989551
AK	472m W	Unspecified Heap	1960	955709
AI	472m NE	Unspecified Tank	1989	882250
AO	473m NW	Unspecified Mill	1960	810203
AI	474m NE	Unspecified Tank	1969	926462
AK	479m W	Unspecified Ground Workings	1938	897047
AQ	483m N	Unspecified Works	1969	940565
AQ	489m N	Engine Shed	1909 - 1914	903518
AQ	489m N	Engine Shed	1938	929283



ID	Location	Land use	Dates present	Group ID
AQ	490m N	Engine Shed	1948	902516

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	61
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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 13**

ID	Location	Land use	Dates present	Group ID
A	On site	Unspecified Tank	1981	111672
D	8m NE	Unspecified Tank	1981 - 1992	138105
D	11m NE	Unspecified Tank	1992	111673
F	31m SW	Unspecified Tank	1911	111654
F	46m SW	Unspecified Tank	1911	111655
F	61m W	Tanks	1992 - 1999	145229
F	62m W	Unspecified Tank	1965	111652
F	62m W	Unspecified Tank	-	104342
F	68m W	Unspecified Tank	1965	111653
F	68m W	Unspecified Tank	-	104386
7	90m NE	Unspecified Tank	1993	145075
8	97m SW	Unspecified Tank	1999	111656
10	135m E	Unspecified Tank	1965 - 1992	132408
11	140m N	Unspecified Tank	1981 - 1984	132085
K	146m NE	Unspecified Tank	1981 - 1992	125184
L	149m NE	Tanks	1992	104611
L	149m NE	Unspecified Tank	1981	111676



ID	Location	Land use	Dates present	Group ID
I	152m NW	Unspecified Tank	1981 - 1993	123356
L	154m N	Unspecified Tank	1981	111675
L	170m N	Tanks	1969	104609
I	173m N	Tanks	1981 - 1984	123726
M	174m NE	Tanks	1962 - 1969	139550
L	175m N	Tanks	1969	104608
17	239m S	Unspecified Tank	1993	134292
19	266m NE	Unspecified Tank	1911	111671
N	266m NE	Tanks	1993	104610
20	277m N	Tanks	1984 - 1993	143263
21	278m SE	Unspecified Tank	1965 - 1993	131984
22	282m NW	Unspecified Tank	1981 - 1995	126045
W	330m N	Unspecified Tank	1965 - 1992	126628
W	330m N	Unspecified Tank	1984	139455
AC	364m NW	Tanks	1981	139798
AC	364m NW	Tanks	1984	122815
AC	365m NW	Tanks	1993	135609
35	370m S	Unspecified Tank	1993	134038
AC	374m NW	Tanks	1993	131546
AC	376m NW	Unspecified Tank	1981	111764
36	380m NW	Unspecified Tank	1992 - 1999	144463
AC	396m NW	Tanks	1984 - 1993	136717
AC	398m NW	Tanks	1981	134728
U	412m N	Unspecified Tank	1981 - 1993	134714
AL	427m NE	Tanks	1993	140270
AL	428m NE	Tanks	1993	134080
AL	429m NE	Tanks	1984	142945
AL	429m NE	Tanks	1981	145137



ID	Location	Land use	Dates present	Group ID
AL	430m NE	Tanks	1984	146813
AL	430m NE	Tanks	1981	140843
Q	446m NW	Unspecified Tank	1981 - 1995	129637
AI	447m NE	Tanks	1984	145107
Q	450m NW	Unspecified Tank	1981	142759
Q	451m NW	Unspecified Tank	1995	135792
AI	453m NE	Tanks	1993	139164
AI	455m NE	Tanks	1981	137883
AI	471m NE	Unspecified Tank	1962 - 1969	122394
AP	473m NE	Tanks	1969 - 1983	132559
AP	473m NE	Unspecified Tank	1988	147167
AP	473m NE	Unspecified Tank	1969 - 1983	131426
AP	475m NE	Unspecified Tank	1969 - 1992	124339
AP	476m NE	Unspecified Tank	1992	148133
45	487m N	Tanks	1981 - 1984	147347
46	493m NW	Unspecified Tank	1992 - 1999	135902

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

19

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 13**

ID	Location	Land use	Dates present	Group ID
9	108m NW	Electricity Substation	1981 - 1995	73909
J	115m NE	Electricity Substation	1992 - 1993	72666



ID	Location	Land use	Dates present	Group ID
J	116m NE	Electricity Substation	1981	64896
M	161m N	Electricity Substation	1993	76963
M	162m N	Electricity Substation	1969 - 1984	68467
13	170m NE	Electricity Substation	1992	60061
K	180m NE	Electricity Substation	1992	60062
R	283m NW	Electricity Substation	1969 - 1995	75857
R	283m NW	Electricity Substation	1981	83718
T	326m NE	Electricity Substation	1981	60060
T	336m NE	Electricity Substation	1969 - 1988	76540
AF	373m NW	Electricity Substation	1992 - 1999	75768
U	383m N	Electricity Substation	1969 - 1993	71886
AH	393m NE	Electricity Substation	1983 - 1988	78913
AH	408m NE	Electricity Substation	1992	80472
40	432m NW	Electricity Substation	1981 - 1995	72124
Q	454m NW	Electricity Substation	1981 - 1995	79243
43	467m SE	Electricity Substation	1988 - 1993	70379
44	475m W	Electricity Substation	1980	60058

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

3

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'.

Features are displayed on the Past land use map on **page 13**

ID	Location	Land use	Dates present	Group ID
H	68m NE	Garage	1981	23460
H	80m NE	Garage	1992 - 1993	24874
H	81m NE	Garage	1981	20076

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

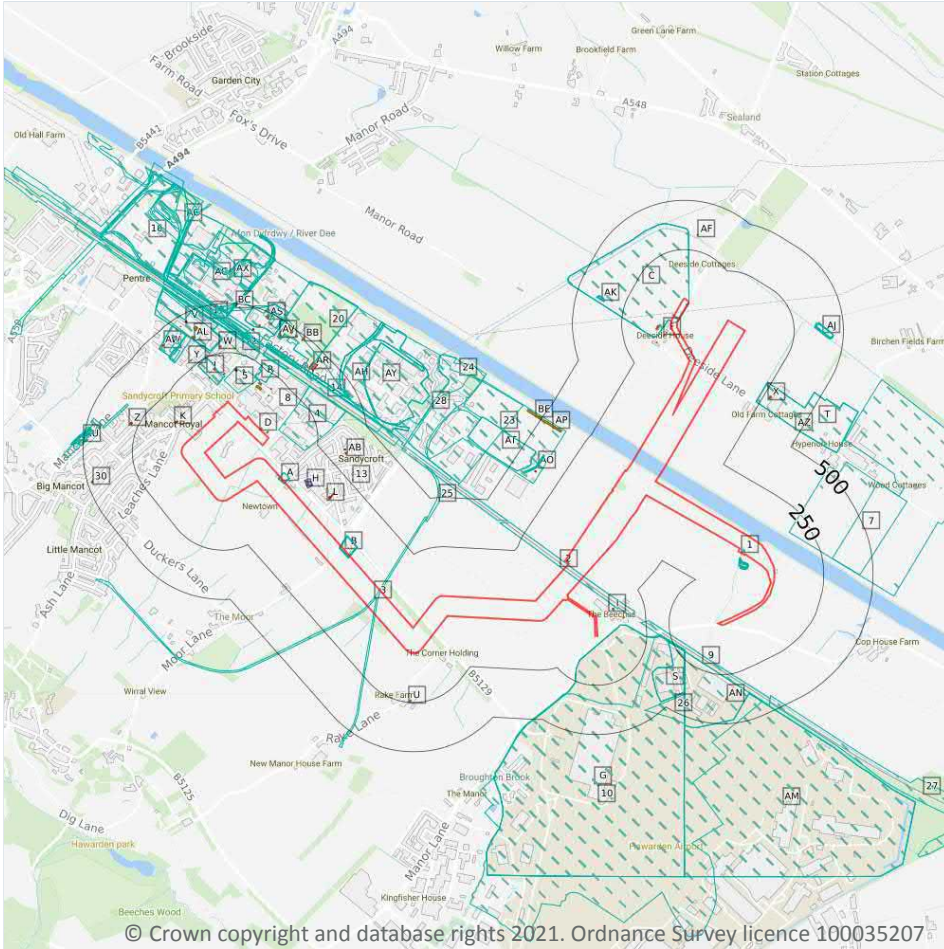
0

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
- Historical garages

2.1 Historical industrial land uses

Records within 500m **134**

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 23**

ID	Location	Land Use	Date	Group ID
1	On site	Unspecified Tank	1938	823907
2	On site	Railway Sidings	1898	794483
3	On site	Railway Sidings	1869	899983



ID	Location	Land Use	Date	Group ID
A	On site	Unspecified Works	1989	850953
A	On site	Unspecified Works	1976	887739
B	On site	Unspecified Works	1969	916874
B	On site	Unspecified Works	1989	917578
B	On site	Unspecified Works	1976	916874
B	On site	Unspecified Works	1960	913883
B	On site	Engineering Works	1948	811583
C	On site	Nursery	1969	950364
C	On site	Nursery	1989	941696
C	On site	Nursery	1976	941696
E	24m SW	Unspecified Heap	1913	907561
E	24m SW	Unspecified Heap	1913	907561
E	24m SW	Unspecified Ground Workings	1938	799522
E	26m SW	Unspecified Heap	1948	860027
E	29m SW	Unspecified Heap	1948	860027
E	30m SW	Unspecified Heap	1938	909687
E	30m SW	Unspecified Heap	1938	909687
G	35m SE	Airport	1969	991563
G	35m SE	Airport	1989	906935
G	35m SE	Airport	1976	922848
G	35m SE	Airfield	1960	888073
E	40m SW	Unspecified Heap	1989	878864
E	40m SW	Unspecified Heap	1974	884408
E	40m SW	Unspecified Heap	1968	884408
4	65m NE	Unspecified Works	1976	856256
5	67m NE	Unspecified Works	1969	830087
J	100m NW	Unspecified Depot	1976	930588
J	103m NW	Unspecified Depot	1989	875842



ID	Location	Land Use	Date	Group ID
7	151m NE	Nursery	1913	991736
9	180m SW	Railway Sidings	1898	794485
R	185m NE	Unspecified Warehouse	1989	935972
R	185m NE	Unspecified Warehouse	1976	984849
10	211m SW	Airfield	1948	883826
S	221m SW	Unspecified Depot	1969	929537
S	221m SW	Unspecified Depot	1989	918756
S	221m SW	Unspecified Depot	1976	929537
T	232m SE	Nursery	1989	898994
T	232m SE	Nursery	1974	968504
T	232m SE	Nursery	1968	968504
11	233m NE	Unspecified Works	1989	852609
12	245m N	Unspecified Works	1969	830086
V	265m N	Unspecified Works	1989	892866
V	272m N	Unspecified Works	1976	872879
V	275m N	Unspecified Works	1969	985990
14	295m NE	Cuttings	1948	795368
15	300m E	Nursery	1938	970522
16	300m NE	Railway Sidings	1898	855202
AA	301m NE	Unspecified Pit	1914	839205
17	302m NE	Unspecified Pit	1914	839209
18	324m N	Railway Sidings	1914	929950
AC	326m N	Railway Sidings	1869	947817
AD	326m NE	Cuttings	1960	795402
AE	327m NW	Disused Wire Works	1869	832059
19	334m N	Railway Sidings	1938	986490
AA	336m NE	Unspecified Pit	1914	839206
AD	336m NE	Unspecified Pit	1914	839204



ID	Location	Land Use	Date	Group ID
AG	337m N	Railway Sidings	1969	957506
AG	337m N	Railway Sidings	1960	917177
20	337m N	Railway Sidings	1948	940526
AE	339m NW	Corn Mill	1898	904360
AH	340m NE	Railway Sidings	1969	961262
AH	340m NE	Railway Sidings	1989	868782
AH	340m NE	Railway Sidings	1976	961262
AH	340m NE	Railway Sidings	1960	890455
AI	343m N	Railway Sidings	1909	977985
21	343m N	Railway Building	1938	819511
22	347m NW	Railway Sidings	1869	794484
AD	348m N	Unspecified Pit	1914	839208
AC	348m N	Railway Sidings	1898	947817
23	352m NW	Unspecified Works	1969	987999
AJ	354m E	Unspecified Heap	1968	978284
AK	355m W	Sand Pit	1948	981430
AK	355m W	Sand Pit	1909	961741
24	356m NW	Railway Sidings	1898	876090
AK	356m W	Sand Pit	1914	868588
AK	356m W	Sand Pit	1960	989384
AK	358m W	Sand Pit	1938	981430
AJ	358m E	Unspecified Heap	1938	940750
AJ	358m E	Unspecified Heap	1898	910295
AJ	359m E	Unspecified Heap	1989	921857
AJ	359m E	Unspecified Heap	1974	846700
AE	360m NW	Corn Mill	1898	904360
AE	366m NW	Unspecified Depot	1989	892504
AE	366m NW	Unspecified Depot	1976	870383



ID	Location	Land Use	Date	Group ID
AD	370m NE	Unspecified Factory	1960	821305
AM	370m S	Aircraft Factory	1989	861247
AM	370m S	Aircraft Factory	1974	861247
AM	370m S	Aircraft Factory	1968	976461
AO	381m NW	Unspecified Ground Workings	1969	963060
AO	381m NW	Unspecified Ground Workings	1989	985605
AO	381m NW	Unspecified Ground Workings	1976	963060
25	385m N	Railway Sidings	1869	906651
AQ	389m NE	Unspecified Works	1976	982976
AQ	390m NE	Unspecified Works	1989	881656
26	402m SW	Unspecified Depot	1969	818227
AS	405m N	Unspecified Depot	1969	984152
AS	405m N	Unspecified Depot	1989	920251
AS	405m N	Unspecified Depot	1976	984152
AT	413m NW	Unspecified Works	1989	909456
AT	415m NW	Unspecified Works	1976	858592
AU	424m W	Colliery	1869	798229
27	424m SE	Railway Sidings	1898	944426
AX	445m N	Engineering Works	1909	974477
AS	446m NE	Cheese Factory	1938	939848
AX	446m N	Unspecified Works	1948	981335
AS	447m NE	Cheese Factory	1948	939848
28	447m NE	Unspecified Works	1960	970833
AI	449m N	Unspecified Works	1969	939017
AX	449m N	Engineering Works	1914	974477
29	451m N	Unspecified Works	1960	855852
AY	457m NE	Unspecified Depot	1969	922778
AY	457m NE	Unspecified Depot	1989	872045



ID	Location	Land Use	Date	Group ID
AY	457m NE	Unspecified Depot	1976	922778
AX	461m N	Unspecified Works	1938	981335
AU	464m W	Unspecified Heap	1869	857554
AU	470m W	Unspecified Heap	1898	892564
BA	470m NW	Sawmill	1948	808343
AS	471m NE	Unspecified Tank	1976	858773
AU	471m W	Unspecified Heap	1948	956585
AU	472m W	Unspecified Heap	1909	989551
AU	472m W	Unspecified Heap	1960	955709
AS	472m NE	Unspecified Tank	1989	882250
BA	473m NW	Unspecified Mill	1960	810203
AS	474m NE	Unspecified Tank	1969	926462
AU	479m W	Unspecified Ground Workings	1938	897047
AU	479m W	Unspecified Ground Workings	1938	897047
BC	483m N	Unspecified Works	1969	940565
BC	489m N	Engine Shed	1909	903518
BC	489m N	Engine Shed	1938	929283
BC	490m N	Engine Shed	1948	902516
BC	494m N	Engine Shed	1914	903518

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

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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 23**

ID	Location	Land Use	Date	Group ID
A	On site	Unspecified Tank	1981	111672



ID	Location	Land Use	Date	Group ID
D	8m NE	Unspecified Tank	1992	138105
D	8m NE	Unspecified Tank	1981	138105
D	11m NE	Unspecified Tank	1992	111673
F	31m SW	Unspecified Tank	1911	111654
F	46m SW	Unspecified Tank	1911	111655
F	61m W	Tanks	1999	145229
F	62m W	Unspecified Tank	1965	111652
F	62m W	Unspecified Tank	-	104342
F	64m W	Tanks	1992	145229
F	68m W	Unspecified Tank	1965	111653
F	68m W	Unspecified Tank	-	104386
I	90m NE	Unspecified Tank	1993	145075
I	90m NE	Unspecified Tank	1993	145075
6	97m SW	Unspecified Tank	1999	111656
M	135m E	Unspecified Tank	1992	132408
M	136m E	Unspecified Tank	1965	132408
N	140m N	Unspecified Tank	1981	132085
N	141m N	Unspecified Tank	1984	132085
O	146m NE	Unspecified Tank	1981	125184
O	147m NE	Unspecified Tank	1992	125184
P	149m NE	Tanks	1992	104611
P	149m NE	Unspecified Tank	1981	111676
J	152m NW	Unspecified Tank	1993	123356
J	153m NW	Unspecified Tank	1981	123356
J	154m NW	Unspecified Tank	1984	123356
P	154m N	Unspecified Tank	1981	111675
P	170m N	Tanks	1969	104609
J	173m N	Tanks	1981	123726



ID	Location	Land Use	Date	Group ID
J	173m N	Tanks	1984	123726
Q	174m NE	Tanks	1962	139550
Q	174m NE	Tanks	1969	139550
P	175m N	Tanks	1969	104608
U	239m S	Unspecified Tank	1993	134292
U	239m S	Unspecified Tank	1993	134292
13	266m NE	Unspecified Tank	1911	111671
R	266m NE	Tanks	1993	104610
W	277m N	Tanks	1993	143263
X	278m SE	Unspecified Tank	1988	131984
W	278m N	Tanks	1984	143263
X	280m SE	Unspecified Tank	1993	131984
X	280m SE	Unspecified Tank	1993	131984
X	280m SE	Unspecified Tank	1965	131984
Y	282m NW	Unspecified Tank	1981	126045
Y	282m NW	Unspecified Tank	1995	126045
AF	330m N	Unspecified Tank	1984	139455
AF	330m N	Unspecified Tank	1992	126628
AF	330m N	Unspecified Tank	1965	126628
AL	364m NW	Tanks	1981	139798
AL	364m NW	Tanks	1984	122815
AL	365m NW	Tanks	1993	135609
AN	370m S	Unspecified Tank	1993	134038
AN	370m S	Unspecified Tank	1993	134038
AL	374m NW	Tanks	1993	131546
AL	376m NW	Unspecified Tank	1981	111764
AP	380m NW	Unspecified Tank	1999	144463
AP	382m NW	Unspecified Tank	1992	144463



ID	Location	Land Use	Date	Group ID
AL	396m NW	Tanks	1993	136717
AL	398m NW	Tanks	1981	134728
AL	398m NW	Tanks	1984	136717
AD	412m N	Unspecified Tank	1993	134714
AD	415m N	Unspecified Tank	1984	134714
AD	415m N	Unspecified Tank	1981	134714
AV	427m NE	Tanks	1993	140270
AV	428m NE	Tanks	1993	134080
AV	429m NE	Tanks	1984	142945
AV	429m NE	Tanks	1981	145137
AV	430m NE	Tanks	1984	146813
AV	430m NE	Tanks	1981	140843
V	446m NW	Unspecified Tank	1981	129637
V	447m NW	Unspecified Tank	1995	129637
AS	447m NE	Tanks	1984	145107
V	450m NW	Unspecified Tank	1981	142759
V	451m NW	Unspecified Tank	1995	135792
AS	453m NE	Tanks	1993	139164
AS	455m NE	Tanks	1981	137883
AS	471m NE	Unspecified Tank	1969	122394
AS	471m NE	Unspecified Tank	1962	122394
BB	473m NE	Tanks	1983	132559
BB	473m NE	Unspecified Tank	1988	147167
BB	473m NE	Tanks	1969	132559
BB	473m NE	Unspecified Tank	1969	131426
BB	474m NE	Unspecified Tank	1983	131426
BB	475m NE	Unspecified Tank	1992	124339
BB	475m NE	Unspecified Tank	1969	124339



ID	Location	Land Use	Date	Group ID
BB	476m NE	Unspecified Tank	1983	124339
BB	476m NE	Unspecified Tank	1988	124339
BB	476m NE	Unspecified Tank	1992	148133
BD	487m N	Tanks	1981	147347
BD	488m N	Tanks	1984	147347
BE	493m NW	Unspecified Tank	1999	135902
BE	496m NW	Unspecified Tank	1992	135902

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	39
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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 23**

ID	Location	Land Use	Date	Group ID
K	108m NW	Electricity Substation	1993	73909
K	108m NW	Electricity Substation	1995	73909
K	108m NW	Electricity Substation	1992	73909
K	110m NW	Electricity Substation	1981	73909
L	115m NE	Electricity Substation	1993	72666
L	115m NE	Electricity Substation	1992	72666
L	116m NE	Electricity Substation	1981	64896
Q	161m N	Electricity Substation	1993	76963
Q	162m N	Electricity Substation	1984	68467
Q	162m N	Electricity Substation	1981	68467
Q	162m N	Electricity Substation	1969	68467
8	170m NE	Electricity Substation	1992	60061
O	180m NE	Electricity Substation	1992	60062



ID	Location	Land Use	Date	Group ID
Z	283m NW	Electricity Substation	1993	75857
Z	283m NW	Electricity Substation	1995	75857
Z	283m NW	Electricity Substation	1992	75857
Z	283m NW	Electricity Substation	1981	83718
Z	283m NW	Electricity Substation	1969	75857
AB	326m NE	Electricity Substation	1981	60060
AB	336m NE	Electricity Substation	1983	76540
AB	336m NE	Electricity Substation	1988	76540
AB	337m NE	Electricity Substation	1969	76540
AO	373m NW	Electricity Substation	1999	75768
AO	374m NW	Electricity Substation	1992	75768
AD	383m N	Electricity Substation	1984	71886
AD	383m N	Electricity Substation	1969	71886
AD	384m N	Electricity Substation	1993	71886
AD	387m N	Electricity Substation	1981	71886
AR	393m NE	Electricity Substation	1983	78913
AR	393m NE	Electricity Substation	1988	78913
AR	408m NE	Electricity Substation	1992	80472
AW	432m NW	Electricity Substation	1981	72124
AW	433m NW	Electricity Substation	1995	72124
V	454m NW	Electricity Substation	1995	79243
V	454m NW	Electricity Substation	1981	79243
AZ	467m SE	Electricity Substation	1988	70379
AZ	469m SE	Electricity Substation	1993	70379
AZ	469m SE	Electricity Substation	1993	70379
30	475m W	Electricity Substation	1980	60058

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

4

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'.

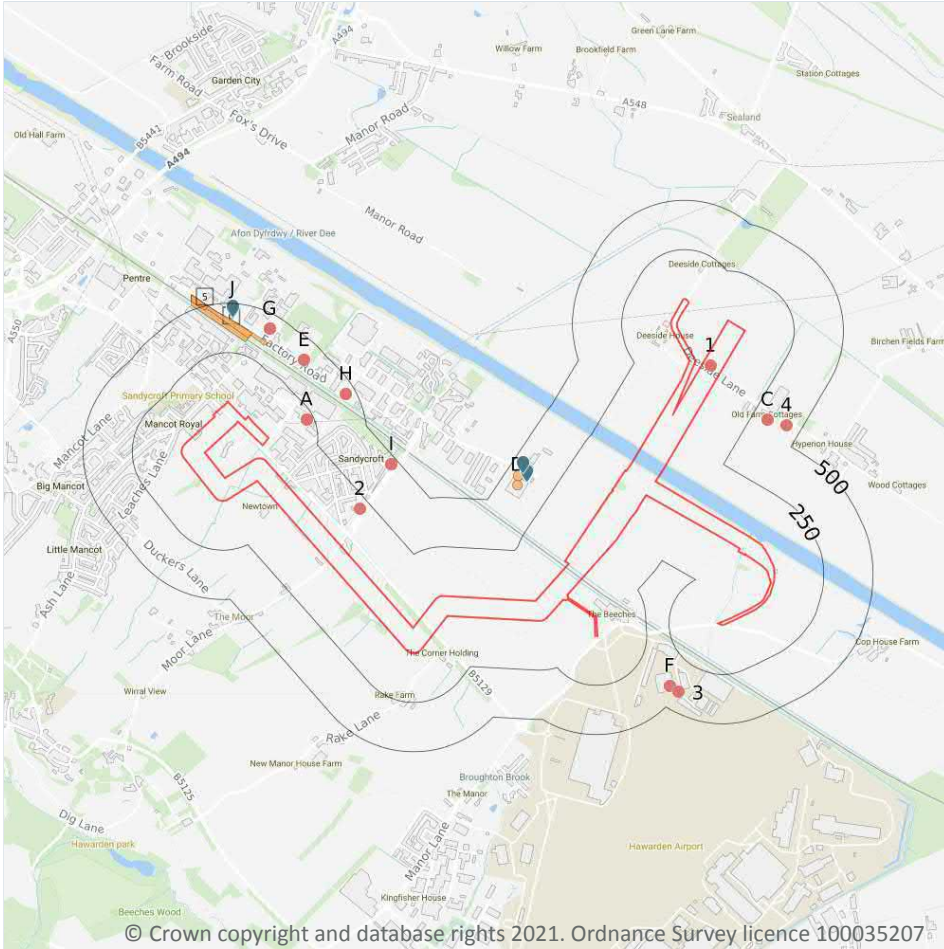
Features are displayed on the Past land use - un-grouped map on **page 23**

ID	Location	Land Use	Date	Group ID
H	68m NE	Garage	1981	23460
H	80m NE	Garage	1993	24874
H	80m NE	Garage	1992	24874
H	81m NE	Garage	1981	20076

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Historical waste sites
- Licensed waste sites
- 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

5

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

Features are displayed on the Waste and landfill map on **page 35**

ID	Location	Address	Further Details	Date
B	317m N	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1980
B	339m N	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1993
D	389m NW	Site Address: Recyclo Ltd, Prince William Avenue, Sandycroft, DEESIDE, Clwyd, CH5 2QZ	Type of Site: Recycling Building (conversion) Planning application reference: 38554 Description: Scheme comprises change of use to material recycling facility (MRF) including invessel composting. Construction - bathroom, kitchen fittings. An application (ref: 038554) for Detailed Planning permission was granted by Flintshire C.C. on 25th January 2 5. Planning decision obtained Data source: Historic Planning Application Data Type: Point	-

ID	Location	Address	Further Details	Date
D	412m NW	Site Address: Recyclo Limited, Prince William Avenue, Sandycroft, Deeside, Clwyd, CH5 2QZ	Type of Site: Waste Transfer Station (Extension/Alterations) Planning application reference: 57363 Description: Scheme comprises reconfiguration and expansion of car parking, siting of temporary building, installation of access control barrier. Data source: Historic Planning Application Data Type: Point	-
5	478m N	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1984

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

3.6 Licensed waste sites

Records within 500m	18
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Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

Features are displayed on the Waste and landfill map on **page 35**

ID	Location	Details		
D	408m NW	Site Name: Recyclo Ltd Site Address: Recyclo Ltd, Prince William Avenue, Sandycroft, Deeside, Flintshire, CH5 2QZ Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: REC005 EPR reference: JP3094FC/V003 Operator: Recyclo Ltd Waste Management licence No: 37280 Annual Tonnage: 74094	Issue Date: 12/05/2005 Effective Date: - Modified: 24/01/2012 Surrendered Date: 0 Expiry Date: 0 Cancelled Date: 0 Status: Modified

ID	Location	Details		
D	409m NW	Site Name: Recyclo Ltd Site Address: Prince William Avenue, Sandycroft, Deeside, Flintshire, CH5 2QZ Correspondence Address: Recyclo Ltd, Prince William Avenue, Sandycroft, Deeside, Flintshire, CH5 2QZ	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: REC005 EPR reference: - Operator: Recyclo Ltd Waste Management licence No: 37280 Annual Tonnage: 0	Issue Date: 12/05/2005 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
D	409m NW	Site Name: Recyclo Ltd Site Address: Recyclo Ltd, Prince William Avenue, Sandycroft, Deeside, Flintshire, CH5 2QZ Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: REC005 EPR reference: EA/EPR/JP3094FC/V003 Operator: Recyclo Ltd Waste Management licence No: 37280 Annual Tonnage: 74094	Issue Date: 12/05/2005 Effective Date: - Modified: 24/01/2012 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
D	409m NW	Site Name: - Site Address: Recyclo Ltd, Sandycroft, Deeside, Flintshire, CH5 2QZ Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: JP3094FC EPR reference: - Operator: Recyclo Ltd Waste Management licence No: 0 Annual Tonnage: 74094	Issue Date: 12/05/2005 Effective Date: 12/05/2005 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
D	409m NW	Site Name: - Site Address: Recyclo Ltd, Sandycroft, Deeside, Flintshire, CH5 2QZ Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: JP3094FC EPR reference: - Operator: - Waste Management licence No: 37280 Annual Tonnage: 74094	Issue Date: 12/05/2005 Effective Date: 12/05/2005 Modified: - Surrendered Date: - Expiry Date: 27/06/2017 Cancelled Date: - Status: Expired



ID	Location	Details		
D	409m NW	Site Name: - Site Address: Recyclo Ltd, Sandycroft, Deeside, Flintshire, CH5 2QZ Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: - Environmental Permitting Regulations (Waste) Licence Number: JP3094FC EPR reference: - Operator: Recyclo Ltd Waste Management licence No: 37280 Annual Tonnage: 74094	Issue Date: 12/05/2005 Effective Date: 12/05/2005 Modified: - Surrendered Date: - Expiry Date: 27/06/2017 Cancelled Date: - Status: Expired
D	409m NW	Site Name: - Site Address: Recyclo Ltd, Sandycroft, Deeside, Flintshire, CH5 2QZ Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: - Environmental Permitting Regulations (Waste) Licence Number: JP3094FC EPR reference: - Operator: Recyclo Ltd Waste Management licence No: 37280 Annual Tonnage: 74094	Issue Date: 12/05/2005 Effective Date: 12/05/2005 Modified: - Surrendered Date: - Expiry Date: 27/06/2017 Cancelled Date: - Status: Expired
D	409m NW	Site Name: - Site Address: Recyclo Ltd, Sandycroft, Flintshire, Deeside, Flintshire, CH5 2QZ Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: JP3094FC EPR reference: - Operator: Recyclo Ltd Waste Management licence No: 37280 Annual Tonnage: 74094	Issue Date: 12/05/2005 Effective Date: 12/05/2005 Modified: - Surrendered Date: - Expiry Date: 27/06/2017 Cancelled Date: - Status: Expired
D	449m NW	Site Name: Copart U K - Prince William Avenue Site Address: Land / Premises At, Prince William Avenue, Sandycroft, Chester, Flintshire, CH5 2QZ Correspondence Address: -	Type of Site: Metal Recycling Site (Vehicle Dismantler) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: USE005 EPR reference: WP3394FG/V002 Operator: Copart U K Ltd Waste Management licence No: 37210 Annual Tonnage: 12000	Issue Date: 01/09/2000 Effective Date: 15/04/2008 Modified: 02/03/2012 Surrendered Date: 0 Expiry Date: 0 Cancelled Date: 0 Status: Modified



ID	Location	Details		
D	449m NW	Site Name: Universal Salvage Auction Site Address: Prince William Avenue, Sandycroft, Nr Chester, Flintshire, CH5 2QZ Correspondence Address: Acrey Fields, Woburn Road, Wootton, Bedfordshire, MK43 9EJ	Type of Site: Metal Recycling Site (Vehicle Dismantler) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: UNI001 EPR reference: - Operator: Universal Salvage Plc Waste Management licence No: 37210 Annual Tonnage: 12000	Issue Date: 01/09/2000 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
D	449m NW	Site Name: Copart U K Site Address: Prince William Avenue, Sandycroft, Nr Chester, Flintshire, CH5 2QZ Correspondence Address: Acrey Fields, Woburn Road, Wootton, Beds, MK43 9EJ	Type of Site: Metal Recycling Site (Vehicle Dismantler) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: USE005 EPR reference: - Operator: Userve Ltd Waste Management licence No: 37210 Annual Tonnage: 12000	Issue Date: 01/09/2000 Effective Date: 15/04/2008 Modified: 10/03/2006 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred
D	449m NW	Site Name: Copart U K Site Address: Land / Premises At, Prince William Avenue, Sandycroft, Chester, Flintshire, CH5 2QZ Correspondence Address: -	Type of Site: Metal Recycling Site (Vehicle Dismantler) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: USE005 EPR reference: EA/EPR/WP3394FG/T003 Operator: Copart Limited Waste Management licence No: 37210 Annual Tonnage: 12000	Issue Date: 01/09/2000 Effective Date: 15/04/2008 Modified: 10/03/2006 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred
J	472m N	Site Name: - Site Address: Chadwicks Metal Processing Facility, Sandycroft, Deeside, Flintshire, CH5 2QJ Correspondence Address: -	Type of Site: Metal Recycling Site (mixed MRS's) Size: - Environmental Permitting Regulations (Waste) Licence Number: WP3194FL EPR reference: - Operator: Susan Joan Chadwick & Frances Susan Crump Waste Management licence No: 37219 Annual Tonnage: 0	Issue Date: 12/01/2001 Effective Date: 12/01/2001 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective



ID	Location	Details		
J	472m N	Site Name: - Site Address: Chadwicks Metal Processing Facility, Sandycroft, Deeside, Flintshire, CH5 2QJ Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: WP3194FL EPR reference: - Operator: Susan Joan Chadwick & Frances Susan Crump Waste Management licence No: 0 Annual Tonnage: 0	Issue Date: 12/01/2001 Effective Date: 12/01/2001 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
J	472m N	Site Name: - Site Address: Chadwicks Metal Processing Facility, Sandycroft, Deeside, Flintshire, CH5 2QJ Correspondence Address: -	Type of Site: Metal Recycling Site (mixed MRS's) Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: WP3194FL EPR reference: - Operator: - Waste Management licence No: 37219 Annual Tonnage: 0	Issue Date: 12/01/2001 Effective Date: 12/01/2001 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
J	472m N	Site Name: - Site Address: Chadwicks Metal Processing Facility, Sandycroft, Deeside, Flintshire, CH5 2QJ Correspondence Address: -	Type of Site: Metal Recycling Site (mixed MRS's) Size: - Environmental Permitting Regulations (Waste) Licence Number: WP3194FL EPR reference: - Operator: Susan Joan Chadwick & Frances Susan Crump Waste Management licence No: 37219 Annual Tonnage: 0	Issue Date: 12/01/2001 Effective Date: 12/01/2001 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
J	472m N	Site Name: - Site Address: Chadwicks Metal Processing Facility, Sandycroft, Flintshire, Deeside, Flintshire, CH5 2QJ Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: WP3194FL EPR reference: - Operator: Susan Joan Chadwick & Frances Susan Crump Waste Management licence No: 37219 Annual Tonnage: 0	Issue Date: 12/01/2001 Effective Date: 12/01/2001 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective

ID	Location	Details		
J	473m N	Site Name: Chadwicks Metal Processing Facility Site Address: Chadwicks Metal Processing Facility, Factory Road, Sandycroft, Deeside, Flintshire, CH5 2QJ Correspondence Address: -	Type of Site: Metal Recycling Site (mixed MRS's) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: CHA006 EPR reference: WP3194FL/V002 Operator: Susan Joan Chadwick & Frances Susan Crump Waste Management licence No: 37219 Annual Tonnage: 4999	Issue Date: 12/01/2001 Effective Date: - Modified: 10/03/2006 Surrendered Date: 0 Expiry Date: 0 Cancelled Date: 0 Status: Modified

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

3.7 Waste exemptions

Records within 500m	131
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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 35**

ID	Location	Site	Reference	Category	Sub-Category	Description
1	On site	4R Group, Wood Farm, Deeside Lane, Sealand, Chester, Flintshire, CH1 6BP	NRW-WME053730	Storing waste exemption	Not on a farm	Storage of sludge
2	196m NE	DCWW, Gladstone Estaes, Station Road, Sandycroft, Glannau Dyfrdwy, Flintshire, CH52PZ	NRW-WME020220	Storing waste exemption	Not on a farm	Storage of sludge
A	212m NE	AM RECYCLING, Unit 1, Glendale Avenue, Glannau Dyfrdwy, CH52QP	NRW-WME004869	Storing waste exemption	Not on a farm	Storage of waste in a secure place
A	212m NE	AM RECYCLING, Unit 1, Glendale Avenue, Glannau Dyfrdwy, CH52QP	NRW-WME004869	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
A	212m NE	AM RECYCLING, Unit 5, Glendale Avenue, DEESIDE, FLINTSHIRE, CH52QP	NRW-WME028859	Storing waste exemption	Not on a farm	Storage of waste in a secure place



ID	Location	Site	Reference	Category	Sub-Category	Description
A	212m NE	AM RECYCLING, Unit 1, Glendale Avenue, Sandycroft Industrial Estate, Glannau Dyfrdwy, CH52QP	NRW-WME034127	Storing waste exemption	Not on a farm	Storage of waste in a secure place
A	212m NE	AM RECYCLING, Unit 1, Glendale Avenue, Sandycroft Industrial Estate, Glannau Dyfrdwy, CH52QP	NRW-WME034127	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
A	212m NE	Glendale Avenue, Sandycroft Industrial Estate, Deeside, Flintshire, CH5 2QP	NRW-WME001169	Treating waste exemption	Waste Exemption - Non-Agricultural	Anaerobic digestion at premises not used for agriculture and burning of resultant biogas
C	326m SE	4 Recycling Ltd, Wood Farm House, Deeside Lane, Sealand, Chester, Flintshire, CH16BP	NRW-WME005060	Storing waste exemption	Not on a farm	Storage of sludge
C	326m SE	Wood Farm, Deeside Lane, Sealand, Chester, Flintshire, CH16BP	NRW-WME006944	Using waste exemption	Waste Exemption - Agricultural and Non-Agricultural	Use of waste in construction
C	326m SE	WT Banks, Deeside Farm, Deeside Lane, Sealand, Chester, Flintshire, Ch16bp	NRW-WME006980	Disposing of waste exemption	On a farm	Burning waste in the open
C	326m SE	Wood Farm House, Deeside Lane, Chester, Flintshire, CH1 6BP	NRW-WME003367	Storing waste exemption	Waste Exemption - Agricultural and Non-Agricultural	Storage of sludge
C	326m SE	Wood Farm, Deeside Lane, Chester, Flintshire, CH1 6BP	NRW-WME004214	Storing waste exemption	Waste Exemption - Agricultural	Storage of sludge
C	326m SE	Wood Farm, Deeside Lane, Chester, Flintshire, CH1 6BP	NRW-WME004257	Storing waste exemption	Waste Exemption - Non-Agricultural	Storage of sludge
E	402m NE	Trade Effluent Services Ltd, 6 Factory Road, Sandycroft, Deeside, Flintshire, CH52DD	NRW-WME028361	Using waste exemption	Not on a farm	Use of waste in construction
E	402m NE	Trade Effluent Services Ltd, 6 Factory Road, Sandycroft, Deeside, Flintshire, CH52DD	NRW-WME028362	Storing waste exemption	Not on a farm	Storage of waste in a secure place



ID	Location	Site	Reference	Category	Sub-Category	Description
F	404m SW	Chester Green Services Ltd, Bay 10, Aviation Park, Sandycroft, Sandycroft, Flintshire, CH4 0GZ	NRW-WME059972	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
F	404m SW	Chester Green Services Ltd, Bay 10, Aviation Park, Sandycroft, Sandycroft, Flintshire, CH4 0GZ	NRW-WME059972	Storing waste exemption	Not on a farm	Storage of waste in a secure place
F	404m SW	New Horizon Plastics Co Ltd, Bay 10, Aviation Park, Flint Road, Chester, CH4 0GZ	NRW-WME055172	Storing waste exemption	Waste Exemption - Agricultural and Non-Agricultural	Storage of waste in a secure place
F	404m SW	New Horizon Plastics Co Ltd, Bay 10, Aviation Park, Flint Road, Chester, CH4 0GZ	NRW-WME055172	Treating waste exemption	Waste Exemption - Agricultural and Non-Agricultural	Preparatory treatments (baling, sorting, shredding etc)
F	404m SW	International House, Flint Road, Chester, CH4 0GZ	WEX085270	Disposing of waste exemption	Not on a farm	Burning waste in the open
F	404m SW	Aviation Park Group Ltd, Aviation Park Group Ltd, Aviation Park, Flint Road, Saltney Ferry, Caer, CH40GZ	NRW-WME021706	Disposing of waste exemption	Not on a farm	Burning waste in the open
3	406m SW	Aviation Park Group Ltd, Aviation Park Group Ltd, Aviation Park, Flint Road, Saltney Ferry, Chester, Flintshire, CH4 0GZ	NRW-WME048359	Disposing of waste exemption	Not on a farm	Burning waste in the open
4	425m SE	4R Group, Wood Farm, Deeside Lane, Sealand, Chester, Flintshire, CH1 6BP	NRW-WME053729	Storing waste exemption	Not on a farm	Storage of sludge
G	425m NE	UNIT C&D, FACTORY ROAD, SANDYCROFT, DEESIDE, CH5 2QJ	WEX158042	Treating waste exemption	Not on a Farm	Preparatory treatments (baling, sorting, shredding etc)
G	425m NE	UNIT C&D, FACTORY ROAD, SANDYCROFT, DEESIDE, CH5 2QJ	WEX158042	Treating waste exemption	Not on a Farm	Recovery of textiles
G	425m NE	UNIT C&D, FACTORY ROAD, SANDYCROFT, DEESIDE, CH5 2QJ	WEX158042	Treating waste exemption	Not on a Farm	Manual treatment of waste



ID	Location	Site	Reference	Category	Sub-Category	Description
G	425m NE	UNIT C&D, FACTORY ROAD, SANDYCROFT, DEESIDE, CH5 2QJ	WEX158042	Treating waste exemption	Not on a Farm	Recovery of scrap metal
G	425m NE	UNIT C&D, FACTORY ROAD, SANDYCROFT, DEESIDE, CH5 2QJ	WEX158042	Treating waste exemption	Not on a Farm	Sorting mixed waste
G	425m NE	UNIT C&D, FACTORY ROAD, SANDYCROFT, DEESIDE, CH5 2QJ	WEX158042	Storing waste exemption	Not on a Farm	Storage of waste in a secure place
G	425m NE	UNIT C&D, FACTORY ROAD, SANDYCROFT, DEESIDE, CH5 2QJ	WEX158042	Storing waste exemption	Not on a Farm	Storage of waste in secure containers
G	425m NE	Safer Surfacing Ltd, Sandycroft, Factory Road, Deeside, CH5 2QJ	WEX132158	Treating waste exemption	Not on a farm	Mechanical treatment of end-of-life tyres
G	425m NE	Safer Surfacing Ltd, Sandycroft, Factory Road, Deeside, CH5 2QJ	WEX132158	Using waste exemption	Not on a farm	Use of waste to manufacture finished goods
G	425m NE	Centrica Business Solutions (UK) Ltd, Scottishpower, Queensferry Depot, Factory Road, Sandycroft, Deeside, Flintshire, CH5 2QJ	NRW-WME051020	Storing waste exemption	Not on a farm	Storage of waste in secure containers
G	425m NE	SAFER SURFACING LTD, UNIT A-D DEVA INDUSTRIAL ESTATE, FACTORY ROAD, DEESIDE, DEESIDE, CH5 2QJ	NRW-WME046571	Using waste exemption	Not on a farm	Use of waste to manufacture finished goods
G	425m NE	SAFER SURFACING LTD, UNIT A-D DEVA INDUSTRIAL ESTATE, FACTORY ROAD, DEESIDE, DEESIDE, CH5 2QJ	NRW-WME046571	Treating waste exemption	Not on a farm	Manual treatment of waste
G	425m NE	SAFER SURFACING LTD, UNIT A-D DEVA INDUSTRIAL ESTATE, FACTORY ROAD, DEESIDE, DEESIDE, CH5 2QJ	NRW-WME046571	Storing waste exemption	Not on a farm	Storage of waste in a secure place



ID	Location	Site	Reference	Category	Sub-Category	Description
G	425m NE	SAFER SURFACING LTD, UNIT A-D DEVA INDUSTRIAL ESTATE, FACTORY ROAD, DEESIDE, DEESIDE, CH5 2QJ	NRW- WME046571	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
G	425m NE	SAFER SURFACING LTD, UNIT A-D DEVA INDUSTRIAL ESTATE, FACTORY ROAD, DEESIDE, DEESIDE, CH5 2QJ	NRW- WME046571	Treating waste exemption	Not on a farm	Recovery of textiles
G	425m NE	SAFER SURFACING LTD, UNIT A-D DEVA INDUSTRIAL ESTATE, FACTORY ROAD, DEESIDE, DEESIDE, CH5 2QJ	NRW- WME046571	Storing waste exemption	Not on a farm	Storage of waste in secure containers
G	425m NE	SAFER SURFACING LTD, UNIT A-D DEVA INDUSTRIAL ESTATE, FACTORY ROAD, DEESIDE, DEESIDE, CH5 2QJ	NRW- WME046571	Treating waste exemption	Not on a farm	Recovery of scrap metal
G	425m NE	SAFER SURFACING LTD, UNIT A-D DEVA INDUSTRIAL ESTATE, FACTORY ROAD, DEESIDE, DEESIDE, CH5 2QJ	NRW- WME046571	Treating waste exemption	Not on a farm	Mechanical treatment of end-of-life tyres
G	425m NE	SAFER SURFACING LTD, UNIT A-D DEVA INDUSTRIAL ESTATE, FACTORY ROAD, DEESIDE, DEESIDE, CH5 2QJ	NRW- WME046571	Treating waste exemption	Not on a farm	Sorting mixed waste
G	425m NE	Dwr Cymru Cyfyngedig, Dwr Cymru Queensferry Wastewater Treatment Works, Factory Road, Sandycroft, Deeside, Flintshire, CH5 2QJ	NRW- WME040491	Treating waste exemption	Not on a farm	Recovery of waste at a waste water treatment works
G	425m NE	ENER.G Combined heat and power, Scottishpower, Queensferry Depot, Factory Road, Sandycroft, Glannau Dyfrdwy, CH52QJ	NRW- WME019742	Storing waste exemption	Not on a farm	Storage of waste in secure containers



ID	Location	Site	Reference	Category	Sub-Category	Description
G	425m NE	Reclaimed Plastic Polymers Ltd, Unit 7, Deva Industrial Park off Factory Road, Sandycroft, Deeside, Flintshire, CH52QJ	NRW-WME023863	Storing waste exemption	Not on a farm	Storage of waste in secure containers
G	425m NE	Reclaimed Plastic Polymers Ltd, Unit 7, Deva Industrial Park off Factory Road, Sandycroft, Deeside, Flintshire, CH52QJ	NRW-WME023863	Storing waste exemption	Not on a farm	Storage of waste in a secure place
G	425m NE	Reclaimed Plastic Polymers Ltd, Unit 7, Deva Industrial Park off Factory Road, Sandycroft, Deeside, Flintshire, CH52QJ	NRW-WME023863	Treating waste exemption	Not on a farm	Cleaning, washing, spraying or coating relevant waste
G	425m NE	Reclaimed Plastic Polymers Ltd, Unit 7, Deva Industrial Park off Factory Road, Sandycroft, Deeside, Flintshire, CH52QJ	NRW-WME023863	Treating waste exemption	Not on a farm	Sorting mixed waste
G	425m NE	Reclaimed Plastic Polymers Ltd, Unit 7, Deva Industrial Park off Factory Road, Sandycroft, Deeside, Flintshire, CH52QJ	NRW-WME023863	Treating waste exemption	Not on a farm	Treatment of waste toner cartridges by sorting, dismantling, cleaning or refilling
G	425m NE	Reclaimed Plastic Polymers Ltd, Unit 7, Deva Industrial Park off Factory Road, Sandycroft, Deeside, Flintshire, CH52QJ	NRW-WME023863	Treating waste exemption	Not on a farm	Physical treatment of waste edible oil and fat to produce biodiesel
G	425m NE	Reclaimed Plastic Polymers Ltd, Unit 7, Deva Industrial Park off Factory Road, Sandycroft, Deeside, Flintshire, CH52QJ	NRW-WME023863	Treating waste exemption	Not on a farm	Recovery of textiles
G	425m NE	Reclaimed Plastic Polymers Ltd, Unit 7, Deva Industrial Park off Factory Road, Sandycroft, Deeside, Flintshire, CH52QJ	NRW-WME023863	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
G	425m NE	Reclaimed Plastic Polymers Ltd, Unit 7, Deva Industrial Park off Factory Road, Sandycroft, Deeside, Flintshire, CH52QJ	NRW-WME023863	Treating waste exemption	Not on a farm	Screening and blending of waste



ID	Location	Site	Reference	Category	Sub-Category	Description
G	425m NE	Reclaimed Plastic Polymers Ltd, Unit 7, Deva Industrial Park off Factory Road, Sandycroft, Deeside, Flintshire, CH52QJ	NRW-WME023863	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
G	425m NE	Reclaimed Plastic Polymers Ltd, Unit 7, Deva Industrial Park off Factory Road, Sandycroft, Deeside, Flintshire, CH52QJ	NRW-WME023863	Treating waste exemption	Not on a farm	Mechanical treatment of end-of-life tyres
G	425m NE	Reclaimed Plastic Polymers Ltd, Unit 7, Deva Industrial Park off Factory Road, Sandycroft, Deeside, Flintshire, CH52QJ	NRW-WME023863	Treating waste exemption	Not on a farm	Recovery of scrap metal
G	425m NE	Reclaimed Plastic Polymers Ltd, Unit 7, Deva Industrial Park off Factory Road, Sandycroft, Deeside, Flintshire, CH52QJ	NRW-WME023863	Using waste exemption	Not on a farm	Use of waste in construction
G	425m NE	3-- Recycling Ltd, Unit A-D, Factory Road, Deeside, Cheshire, CH52QJ	NRW-WME025993	Treating waste exemption	Not on a farm	Mechanical treatment of end-of-life tyres
G	425m NE	3-- Recycling Ltd, Unit A-D, Factory Road, Deeside, Cheshire, CH52QJ	NRW-WME025993	Treating waste exemption	Not on a farm	Cleaning, washing, spraying or coating relevant waste
G	425m NE	3-- Recycling Ltd, Unit A-D, Factory Road, Deeside, Cheshire, CH52QJ	NRW-WME025993	Using waste exemption	Not on a farm	Use of baled end-of-life tyres in construction
G	425m NE	3-- Recycling Ltd, Unit A-D, Factory Road, Deeside, Cheshire, CH52QJ	NRW-WME025993	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
G	425m NE	3-- Recycling Ltd, Unit A-D, Factory Road, Deeside, Cheshire, CH52QJ	NRW-WME025993	Treating waste exemption	Not on a farm	Recovery of scrap metal
G	425m NE	3-- Recycling Ltd, Unit A-D, Factory Road, Deeside, Cheshire, CH52QJ	NRW-WME025993	Treating waste exemption	Not on a farm	Treatment of waste aerosol cans
G	425m NE	3-- Recycling Ltd, Unit A-D, Factory Road, Deeside, Cheshire, CH52QJ	NRW-WME025993	Treating waste exemption	Not on a farm	Sorting mixed waste



ID	Location	Site	Reference	Category	Sub-Category	Description
G	425m NE	3-- Recycling Ltd, Unit A-D, Factory Road, Deeside, Cheshire, CH52QJ	NRW-WME025993	Using waste exemption	Not on a farm	Use of waste to manufacture finished goods
G	425m NE	3-- Recycling Ltd, Unit A-D, Factory Road, Deeside, Cheshire, CH52QJ	NRW-WME025993	Treating waste exemption	Not on a farm	Manual treatment of waste
G	425m NE	3-- Recycling Ltd, Unit A-D, Factory Road, Deeside, Cheshire, CH52QJ	NRW-WME025993	Storing waste exemption	Not on a farm	Storage of waste in secure containers
G	425m NE	3-- Recycling Ltd, Unit A-D, Factory Road, Deeside, Cheshire, CH52QJ	NRW-WME025993	Treating waste exemption	Not on a farm	Treatment of waste toner cartridges by sorting, dismantling, cleaning or refilling
G	425m NE	3-- Recycling Ltd, Unit A-D, Factory Road, Deeside, Cheshire, CH52QJ	NRW-WME025993	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
G	425m NE	3-- Recycling Ltd, Unit A-D, Factory Road, Deeside, Cheshire, CH52QJ	NRW-WME025993	Storing waste exemption	Not on a farm	Storage of waste in a secure place
G	425m NE	Trade Effluent Services Ltd, Unit 1, Factory Road, Deeside, Flintshire, CH52QJ	NRW-WME028692	Using waste exemption	Not on a farm	Use of waste in construction
G	425m NE	Safer Surfacing Ltd, Unit B, Deva Industrial Estate, Factory Road, Sandycroft, Deeside, CH52QJ	NRW-WME031186	Using waste exemption	Not on a farm	Use of waste to manufacture finished goods
G	425m NE	Safer Surfacing Ltd, Unit B, Deva Industrial Estate, Factory Road, Sandycroft, Deeside, CH52QJ	NRW-WME031186	Treating waste exemption	Not on a farm	Mechanical treatment of end-of-life tyres
G	425m NE	MAN COED VM LTD, Factory Road, Sandycroft, UNIT B, Deeside, Flintshire, CH52QJ	NRW-WME032266	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
G	425m NE	SAFER SURFACING LTD, YARD A DEVA INDUSTRIAL ESTATE, SANDYCROFT, Deeside, Deeside, Cheshire, CH52QJ	NRW-WME032822	Storing waste exemption	Not on a farm	Storage of waste in a secure place



ID	Location	Site	Reference	Category	Sub-Category	Description
G	425m NE	SAFER SURFACING LTD, YARD A DEVA INDUSTRIAL ESTATE, SANDYCROFT, Deeside, Deeside, Cheshire, CH52QJ	NRW- WME032822	Treating waste exemption	Not on a farm	Mechanical treatment of end-of-life tyres
G	425m NE	SAFER SURFACING LTD, Safer Surfacing Ltd, Factory Road, Sandycroft, Deeside, Flintshire, CH52QJ	NRW- WME032908	Treating waste exemption	Not on a farm	Mechanical treatment of end-of-life tyres
G	425m NE	SAFER SURFACING LTD, Safer Surfacing Ltd, Factory Road, Sandycroft, Deeside, Flintshire, CH52QJ	NRW- WME032908	Storing waste exemption	Not on a farm	Storage of waste in a secure place
G	425m NE	Hollingsworth Bros Uk Ltd, Hollingsworth Bros., Land South of Factory Road, Sandycroft, Deeside, Flintshire, CH52QJ	NRW- WME034288	Using waste exemption	Not on a farm	Use of waste in construction
G	425m NE	Endurmeta ltd, Unit A-D deva ind park, Factory road, Deeside, CH52QJ	NRW- WME036814	Storing waste exemption	Not on a farm	Storage of waste in secure containers
G	425m NE	Endurmeta ltd, Unit A-D deva ind park, Factory road, Deeside, CH52QJ	NRW- WME036814	Treating waste exemption	Not on a farm	Manual treatment of waste
G	425m NE	Endurmeta ltd, Unit A-D deva ind park, Factory road, Deeside, CH52QJ	NRW- WME036814	Storing waste exemption	Not on a farm	Storage of waste in a secure place
G	425m NE	Endurmeta ltd, Unit A-D deva ind park, Factory road, Deeside, CH52QJ	NRW- WME036814	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
G	425m NE	Endurmeta ltd, Unit A-D deva ind park, Factory road, Deeside, CH52QJ	NRW- WME036814	Treating waste exemption	Not on a farm	Sorting mixed waste
G	425m NE	Endurmeta ltd, Unit A-D deva ind park, Factory road, Deeside, CH52QJ	NRW- WME036814	Treating waste exemption	Not on a farm	Recovery of scrap metal
G	425m NE	Endurmeta ltd, Unit A-D deva ind park, Factory road, Deeside, CH52QJ	NRW- WME036814	Treating waste exemption	Not on a farm	Recovery of textiles



ID	Location	Site	Reference	Category	Sub-Category	Description
G	425m NE	Land off, Factory Road, Deeside, Flintshire, CH5 2QJ	NRW-WME001381	Treating waste exemption	Waste Exemption - Agricultural and Non-Agricultural	Cleaning, washing, spraying or coating relevant waste
G	425m NE	Land off, Factory Road, Deeside, Flintshire, CH5 2QJ	NRW-WME001381	Treating waste exemption	Waste Exemption - Non-Agricultural	Recovery of textiles
G	425m NE	Land off, Factory Road, Deeside, Flintshire, CH5 2QJ	NRW-WME001381	Treating waste exemption	Waste Exemption - Agricultural and Non-Agricultural	Preparatory treatments (baling, sorting, shredding etc)
G	425m NE	Land off, Factory Road, Deeside, Flintshire, CH5 2QJ	NRW-WME001381	Treating waste exemption	Waste Exemption - Agricultural and Non-Agricultural	Mechanical treatment of end-of-life tyres
G	425m NE	Land off, Factory Road, Deeside, Flintshire, CH5 2QJ	NRW-WME001381	Treating waste exemption	Waste Exemption - Agricultural and Non-Agricultural	Recovery of scrap metal
G	425m NE	Land off, Factory Road, Deeside, Flintshire, CH5 2QJ	NRW-WME001381	Treating waste exemption	Waste Exemption - Agricultural and Non-Agricultural	Sorting mixed waste
G	425m NE	Land off, Factory Road, Deeside, Flintshire, CH5 2QJ	NRW-WME001381	Treating waste exemption	Waste Exemption - Non-Agricultural	Manual treatment of waste
G	425m NE	Land off, Factory Road, Deeside, Flintshire, CH5 2QJ	NRW-WME001381	Storing waste exemption	Waste Exemption - Agricultural and Non-Agricultural	Storage of waste in secure containers
G	425m NE	Land off, Factory Road, Deeside, Flintshire, CH5 2QJ	NRW-WME001381	Storing waste exemption	Waste Exemption - Agricultural and Non-Agricultural	Storage of waste in a secure place
G	425m NE	Hollingsworth Bros (UK) LTD, LAND south of Factory Road, Deeside, Flintshire, CH5 2QJ	NRW-WME002182	Treating waste exemption	Waste Exemption - Non-Agricultural	Screening and blending of waste
G	425m NE	Hollingsworth Bros (UK) LTD, LAND south of Factory Road, Deeside, Flintshire, CH5 2QJ	NRW-WME002182	Treating waste exemption	Waste Exemption - Non-Agricultural	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising



ID	Location	Site	Reference	Category	Sub-Category	Description
G	425m NE	Hollingsworth Bros (UK) LTD, LAND south of Factory Road, Deeside, Flintshire, CH5 2QJ	NRW-WME002182	Using waste exemption	Waste Exemption - Non-Agricultural	Use of waste in construction
G	425m NE	Hollingsworth Bros (UK) LTD, LAND south of Factory Road, Deeside, Flintshire, CH5 2QJ	NRW-WME002182	Using waste exemption	Waste Exemption - Non-Agricultural	Use of waste in the construction of entertainment or educational installations etc
G	425m NE	Hollingsworth Bros (UK) LTD, LAND south of Factory Road, Deeside, Flintshire, CH5 2QJ	NRW-WME002182	Using waste exemption	Waste Exemption - Non-Agricultural	Spreading waste on agricultural land to confer benefit
G	425m NE	Hollingsworth Bros (UK) LTD, LAND south of Factory Road, Deeside, Flintshire, CH5 2QJ	NRW-WME002182	Using waste exemption	Waste Exemption - Non-Agricultural	Spreading waste on non-agricultural land to confer benefit
G	425m NE	Factory Road, Sandycroft, Deeside, Flintshire, CH52QJ	NRW-WME003296	Treating waste exemption	Waste Exemption - Non-Agricultural	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
H	450m NE	Clarke Technologies Ltd, Unit AD, Deva Industrial Estate, Factory Road, SandyCroft, Deeside, CH5 2QY	WEX077586	Storing waste exemption	Not on a farm	Storage of waste in a secure place
H	450m NE	Clarke Technologies Ltd, Unit AD, Deva Industrial Estate, Factory Road, SandyCroft, Deeside, CH5 2QY	WEX077586	Treating waste exemption	Not on a farm	Sorting mixed waste
H	450m NE	Clarke Technologies Ltd, Unit AD, Deva Industrial Estate, Factory Road, SandyCroft, Deeside, CH5 2QY	WEX077586	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
H	450m NE	Clarke Technologies Ltd, Unit AD, Deva Industrial Estate, Factory Road, SandyCroft, Deeside, CH5 2QY	WEX077586	Using waste exemption	Not on a farm	Use of waste to manufacture finished goods



ID	Location	Site	Reference	Category	Sub-Category	Description
H	450m NE	R N Roberts & Sons Ltd, R N Roberts & Sons Ltd, Whittle Close, Engineering park, Sandycroft, Flintshire, ch52qy	NRW-WME008374	Disposing of waste exemption	Not on a farm	Burning waste in the open
H	450m NE	R N Roberts & Sons Ltd, R N Roberts & Sons Ltd, Whittle Close, Engineering park, Sandycroft, Flintshire, ch52qy	NRW-WME008374	Using waste exemption	Not on a farm	Use of waste in construction
H	450m NE	3-- Recycling Ltd, Clarke Technologies Ltd, Unit A-D, Deva Industrial Estate, Factory Road, Sandycroft, Deeside, Deeside, CH52QY	NRW-WME019874	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
H	450m NE	3-- Recycling Ltd, Clarke Technologies Ltd, Unit A-D, Deva Industrial Estate, Factory Road, Sandycroft, Deeside, Deeside, CH52QY	NRW-WME019874	Storing waste exemption	Not on a farm	Storage of waste in a secure place
H	450m NE	3-- Recycling Ltd, Clarke Technologies Ltd, Unit A-D, Deva Industrial Estate, Factory Road, Sandycroft, Deeside, Deeside, CH52QY	NRW-WME019874	Treating waste exemption	Not on a farm	Sorting mixed waste
H	450m NE	3-- Recycling Ltd, 300 Recycling Ltd, Unit A-D, Deva Industrial Estate, Factory Road, Deeside, Deeside, CH52QY	NRW-WME021111	Treating waste exemption	Not on a farm	Treatment of waste toner cartridges by sorting, dismantling, cleaning or refilling
H	450m NE	3-- Recycling Ltd, 300 Recycling Ltd, Unit A-D, Deva Industrial Estate, Factory Road, Deeside, Deeside, CH52QY	NRW-WME021111	Treating waste exemption	Not on a farm	Mechanical treatment of end-of-life tyres
H	450m NE	3-- Recycling Ltd, 300 Recycling Ltd, Unit A-D, Deva Industrial Estate, Factory Road, Deeside, Deeside, CH52QY	NRW-WME021111	Treating waste exemption	Not on a farm	Manual treatment of waste
H	450m NE	3-- Recycling Ltd, 300 Recycling Ltd, Unit A-D, Deva Industrial Estate, Factory Road, Deeside, Deeside, CH52QY	NRW-WME021111	Storing waste exemption	Not on a farm	Storage of waste in secure containers



ID	Location	Site	Reference	Category	Sub-Category	Description
H	450m NE	3-- Recycling Ltd, 300 Recycling Ltd, Unit A-D, Deva Industrial Estate, Factory Road, Deeside, Deeside, CH52QY	NRW-WME021111	Using waste exemption	Not on a farm	Use of waste to manufacture finished goods
H	450m NE	3-- Recycling Ltd, 300 Recycling Ltd, Unit A-D, Deva Industrial Estate, Factory Road, Deeside, Deeside, CH52QY	NRW-WME021111	Treating waste exemption	Not on a farm	Treatment of waste aerosol cans
H	450m NE	3-- Recycling Ltd, 300 Recycling Ltd, Unit A-D, Deva Industrial Estate, Factory Road, Deeside, Deeside, CH52QY	NRW-WME021111	Treating waste exemption	Not on a farm	Treatment of waste food
H	450m NE	3-- Recycling Ltd, 300 Recycling Ltd, Unit A-D, Deva Industrial Estate, Factory Road, Deeside, Deeside, CH52QY	NRW-WME021111	Using waste exemption	Not on a farm	Use of baled end-of-life tyres in construction
H	450m NE	3-- Recycling Ltd, 300 Recycling Ltd, Unit A-D, Deva Industrial Estate, Factory Road, Deeside, Deeside, CH52QY	NRW-WME021111	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
H	450m NE	3-- Recycling Ltd, 300 Recycling Ltd, Unit A-D, Deva Industrial Estate, Factory Road, Deeside, Deeside, CH52QY	NRW-WME021111	Treating waste exemption	Not on a farm	Sorting mixed waste
H	450m NE	3-- Recycling Ltd, 300 Recycling Ltd, Unit A-D, Deva Industrial Estate, Factory Road, Deeside, Deeside, CH52QY	NRW-WME021111	Treating waste exemption	Not on a farm	Cleaning, washing, spraying or coating relevant waste
H	450m NE	3-- Recycling Ltd, 300 Recycling Ltd, Unit A-D, Deva Industrial Estate, Factory Road, Deeside, Deeside, CH52QY	NRW-WME021111	Treating waste exemption	Not on a farm	Recovery of scrap metal
H	450m NE	3-- Recycling Ltd, 300 Recycling Ltd, Unit A-D, Deva Industrial Estate, Factory Road, Deeside, Deeside, CH52QY	NRW-WME021111	Storing waste exemption	Not on a farm	Storage of waste in a secure place

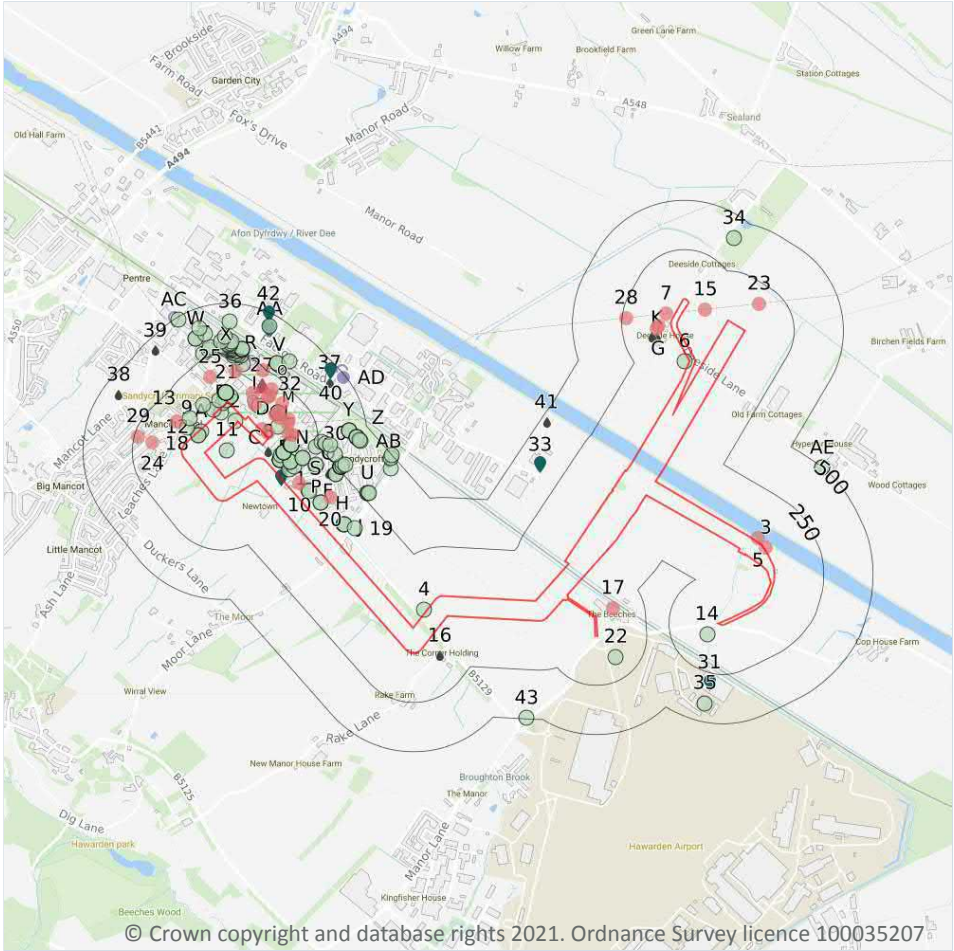


ID	Location	Site	Reference	Category	Sub-Category	Description
H	450m NE	3-- Recycling Ltd, 300 Recycling Ltd, Unit A-D, Deva Industrial Estate, Factory Road, Deeside, Deeside, CH52QY	NRW-WME021111	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
I	466m NE	Cheshire Tarmac & driveways Ltd, The Yard, Station Road, Sandycroft, Flintshire, Flintshire, -Select State, CH5 2PT	NRW-WME058951	Treating waste exemption	Not on a farm	Screening and blending of waste
I	466m NE	Harold Roberts & Son LTD, J S M (Deeside) Ltd, Station Road, Sandycroft, Deeside, Flintshire, CH5 2PT	NRW-WME041123	Using waste exemption	Not on a farm	Use of waste in construction
I	466m NE	PJK DEVELOPMENTS (HILDEN MILL) LTD, Spraytec, Station Road, Sandycroft, Deeside, Flintshire, CH5 2PT	NRW-WME041328	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
I	466m NE	Cheshire Tarmac & driveways Ltd, The yard, Station road, sandycroft, deeside, flintshire, Ch52PT	NRW-WME037124	Using waste exemption	Not on a farm	Use of waste in construction
I	466m NE	Cheshire Tarmac & driveways Ltd, The yard, Station road, sandycroft, deeside, flintshire, Ch52PT	NRW-WME037124	Storing waste exemption	Not on a farm	Storage of waste in a secure place

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
- Control of Major Accident Hazards
- ▲ Hazardous substance storage/usage
- Historical licensed industrial activities
- ⬮ Part A(1) industrial activities
- Licensed pollutant release (Part A(2)/B)
- Licensed Discharges to controlled waters
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m **32**

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 56**

ID	Location	Company	Address	Activity	Category
3	7m NE	Mooring Post	Clwyd, CH1	Moorings and Unloading Facilities	Water
D	11m NE	Tank	Clwyd, CH5	Tanks (Generic)	Industrial Features
D	15m NE	Tank	Clwyd, CH5	Tanks (Generic)	Industrial Features



ID	Location	Company	Address	Activity	Category
5	19m NE	Landing Stage	Clwyd, CH1	Moorings and Unloading Facilities	Water
7	40m NW	Pylon	Clwyd, CH1	Electrical Features	Infrastructure and Facilities
10	54m NE	Gallaghers of Sandycroft	Chester Road, Sandycroft, Deeside, Clwyd, CH5 2QN	New Vehicles	Motoring
G	66m W	Tank	Clwyd, CH1	Tanks (Generic)	Industrial Features
I	71m NE	Factory	Clwyd, CH5	Unspecified Works Or Factories	Industrial Features
G	74m W	Tank	Clwyd, CH1	Tanks (Generic)	Industrial Features
15	91m E	Pylon	Clwyd, CH1	Electrical Features	Infrastructure and Facilities
17	96m NE	Tank	Clwyd, CH4	Tanks (Generic)	Industrial Features
L	104m E	Metlab Supplies Ltd	Unit 7 Glendale Avenue, Sandycroft Industrial Estate, Sandycroft, Deeside, Clwyd, CH5 2QP	Colours, Chemicals and Water Softeners and Supplies	Industrial Products
C	105m NE	Factory	Clwyd, CH5	Unspecified Works Or Factories	Industrial Features
18	112m NW	Electricity Sub Station	Clwyd, CH5	Electrical Features	Infrastructure and Facilities
C	112m NE	Tank	Clwyd, CH5	Tanks (Generic)	Industrial Features
C	121m NE	Pylon	Clwyd, CH5	Electrical Features	Infrastructure and Facilities
L	121m E	Factory	Clwyd, CH5	Unspecified Works Or Factories	Industrial Features
20	122m NE	Electricity Sub Station	Clwyd, CH5	Electrical Features	Infrastructure and Facilities
21	123m N	Pylon	Clwyd, CH5	Electrical Features	Infrastructure and Facilities
C	124m NE	Parker	Glendale Avenue, Sandycroft Industrial Estate, Sandycroft, Deeside, Clwyd, CH5 2QP	Pumps and Compressors	Industrial Products



ID	Location	Company	Address	Activity	Category
C	139m NE	White Self Storage	Glendale Avenue, Sandycroft Industrial Estate, Sandycroft, Deeside, Clwyd, CH5 2QP	Container and Storage	Transport, Storage and Delivery
M	141m NE	Chimney	Clwyd, CH5	Chimneys	Industrial Features
M	151m NE	Tank	Clwyd, CH5	Tanks (Generic)	Industrial Features
23	155m NE	Pylon	Clwyd, CH1	Electrical Features	Infrastructure and Facilities
24	155m W	Steel & Glass Balustrades	1, Hawarden Way, Mancot, Deeside, Clwyd, CH5 2EL	Glass	Industrial Products
25	156m NW	Tank	Clwyd, CH5	Tanks (Generic)	Industrial Features
26	161m N	Electricity Sub Station	Clwyd, CH5	Electrical Features	Infrastructure and Facilities
C	172m NE	Electricity Sub Station	Clwyd, CH5	Electrical Features	Infrastructure and Facilities
M	183m NE	Electricity Sub Station	Clwyd, CH5	Electrical Features	Infrastructure and Facilities
28	229m W	Pylon	Clwyd, CH1	Electrical Features	Infrastructure and Facilities
29	230m W	Mel's Amazing Cakes	42, Mancot Way, Mancot, Deeside, Clwyd, CH5 2AP	Baking and Confectionery	Foodstuffs
O	240m NE	F M C Agro Ltd	Rectors Lane, Pentre, Deeside, Clwyd, CH5 2DH	Agricultural Contractors	Contract Services

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 3

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.

Features are displayed on the Current industrial land use map on **page 56**

ID	Location	Company	Address	Operational status	Tier
C	On site	Shopspec	North West Seelings Ltd (t/a Shopspec), Glendale Park, Sandycroft Ind Est, Flintshire, CH5 2QP	Historical NIHHS Site	-
O	156m NE	FMC Agro Limited	FMC Agro Limited, Deeside, Rectors Lane, Pentre, Deeside, Flintshire, CH5 2DH	Current COMAH Site	COMAH Upper Tier Operator
O	157m NE	Headland Agrochemicals Limited	Headland Agrochemicals Limited, Deeside, Rectors Lane, Pentre, Deeside, Flintshire, CH5 2DH	Historical COMAH Site	COMAH Upper Tier Operator

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

1

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.

Features are displayed on the Current industrial land use map on **page 56**

ID	Location	Details	
27	171m NE	Application reference number: No Details Application status: Approved Application date: 18/03/2013 Address: FMC Agro Limited, Rectors Lane, Pentre, Deeside, Flintshire, Wales, CH5 2DH	Details: Hazardous Substances consent for agricultural chemical manufacture and storage Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m

4

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 56**

ID	Location	Details	
AD	488m NE	Operator: J Reid Trading Ltd Address: The Laboratories, Factory Road, Sandycroft, Deeside, Clwyd, CH5 2QJ Process: Incineration Permit Number: AH1234	Original Permit Number: IPCAPP Date Approved: 29-12-1993 Effective Date: 29-12-1993 Status: Superseded By Variation
AD	488m NE	Operator: J Reid Trading Ltd Address: The Laboratories, Factory Road, Sandycroft, Deeside, Clwyd, CH5 2QJ Process: Incineration Permit Number: AM8431	Original Permit Number: IPCMINVAR Date Approved: 13-6-1995 Effective Date: 23-6-1995 Status: Superseded By Variation



ID	Location	Details	
AD	488m NE	Operator: J Reid Trading Ltd Address: The Laboratories, Factory Road, Sandycroft, Deeside, Clwyd, CH5 2QJ Process: Incineration Permit Number: AW9846	Original Permit Number: IPCMINVAR Date Approved: 2-12-1996 Effective Date: 6-12-1996 Status: Superseded By Variation
AD	488m NE	Operator: J Reid Trading Ltd Address: The Laboratories, Factory Road, Sandycroft, Deeside, Clwyd, CH5 2QJ Process: Incineration Permit Number: BD7367	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 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

44

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 56**

ID	Location	Details	
I	73m N	Operator: MARSHALL FOOD GROUP Installation Name: SANDYCROFT POULTRY PROCESSING Process: ANIMAL, VEGETABLE AND FOOD; SLAUGHTERING ANIMALS >50 T/DAY Permit Number: UP3135LL Original Permit Number: BU2101IL	EPR Reference: - Issue Date: 09/03/2006 Effective Date: 09/03/2006 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
I	73m N	Operator: MARSHALL FOOD GROUP LIMITED Installation Name: SANDYCROFT POULTRY PROCESSING Process: ANIMAL VEGETABLE AND FOOD; TREATING ETC ANIMAL RAW MATERIALS (NOT MILK) FOR FOOD >75T/D Permit Number: BU2101L Original Permit Number: BU2101IL	EPR Reference: - Issue Date: 28/02/2005 Effective Date: 28/02/2005 Last date noted as effective: 17/11/2015 Status: SUPERCEDED



ID	Location	Details	
I	73m N	Operator: 2 SISTERS POULTRY LIMITED Installation Name: SANDYCROFT POULTRY EPR/YP3632EM Process: TREATMENT AND PROCESSING (OTHER THAN PACKAGING) OF ONLY ANIMAL RAW MATERIALS (OTHER THAN MILK ONLY) INTENDED FOR PRODUCTION OF FOOD OR FEED WITH A FINISHED PRODUCT CAPACITY GREATER THAN 75 T/D Permit Number: YP3632EM Original Permit Number: YP3632EM	EPR Reference: - Issue Date: 05/02/2014 Effective Date: 05/02/2014 Last date noted as effective: 17/11/2015 Status: TRANSFER EFFECTIVE
I	73m N	Operator: 2 SISTERS POULTRY LIMITED Installation Name: SANDYCROFT POULTRY PROCESSING Process: TREATMENT AND PROCESSING (OTHER THAN PACKAGING) OF ONLY ANIMAL RAW MATERIALS (OTHER THAN MILK ONLY) INTENDED FOR PRODUCTION OF FOOD OR FEED WITH A FINISHED PRODUCT CAPACITY GREATER THAN 75 T/D Permit Number: ZP3933AT Original Permit Number: YP3632EM	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 17/11/2015 Status: REFUSED
I	73m N	Operator: VION FOOD WALES & WEST ENGLAND LTD Installation Name: SANDYCROFT POULTRY PROCESSING Process: ANIMAL, VEGETABLE AND FOOD; SLAUGHTERING ANIMALS >50 T/DAY Permit Number: AP3633HT Original Permit Number: AP3633HT	EPR Reference: - Issue Date: 24/08/2010 Effective Date: 24/08/2010 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
I	73m N	Operator: VION FOOD WALES & WEST ENGLAND LTD Installation Name: SANDYCROFT POULTRY PROCESSING Process: ANIMAL, VEGETABLE AND FOOD; SLAUGHTERING ANIMALS >50 T/DAY Permit Number: BP3835HA Original Permit Number: AP3633HT	EPR Reference: - Issue Date: 28/09/2010 Effective Date: 28/09/2010 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
I	73m N	Operator: VION FOOD WALES & WEST ENGLAND LTD Installation Name: SANDYCROFT POULTRY PROCESSING Process: ANIMAL, VEGETABLE AND FOOD; SLAUGHTERING ANIMALS >50 T/DAY Permit Number: BP3935ZN Original Permit Number: AP3633HT	EPR Reference: - Issue Date: 28/11/2012 Effective Date: 28/11/2012 Last date noted as effective: 17/11/2015 Status: SUPERCEDED



ID	Location	Details	
I	73m N	Operator: W&WE (WALES AND WEST ENGLAND) LIMITED Installation Name: SANDYCROFT POULTRY PROCESSING Process: ANIMAL, VEGETABLE AND FOOD; SLAUGHTERING ANIMALS >50 T/DAY Permit Number: RP3936ZK Original Permit Number: AP3633HT	EPR Reference: - Issue Date: 21/03/2013 Effective Date: 21/03/2013 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
I	73m N	Operator: W&WE (WALES AND WEST ENGLAND) LIMITED Installation Name: SANDYCROFT POULTRY PROCESSING Process: ASSOCIATED PROCESS Permit Number: RP3936ZK Original Permit Number: AP3633HT	EPR Reference: - Issue Date: 21/03/2013 Effective Date: 21/03/2013 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
I	73m N	Operator: W&WE (WALES AND WEST ENGLAND) LIMITED Installation Name: SANDYCROFT POULTRY PROCESSING Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: RP3936ZK Original Permit Number: AP3633HT	EPR Reference: - Issue Date: 21/03/2013 Effective Date: 21/03/2013 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
I	73m N	Operator: W&WE (WALES AND WEST ENGLAND) LIMITED Installation Name: SANDYCROFT POULTRY PROCESSING Process: TREATMENT AND PROCESSING (OTHER THAN PACKAGING) OF ONLY ANIMAL RAW MATERIALS (OTHER THAN MILK ONLY) INTENDED FOR PRODUCTION OF FOOD OR FEED WITH A FINISHED PRODUCT CAPACITY GREATER THAN 75 T/D Permit Number: RP3936ZK Original Permit Number: AP3633HT	EPR Reference: - Issue Date: 21/03/2013 Effective Date: 21/03/2013 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
I	73m N	Operator: 2 SISTERS POULTRY LIMITED Installation Name: SANDYCROFT POULTRY PROCESSING Process: - Permit Number: YP3632EM Original Permit Number: YP3632EM	EPR Reference: - Issue Date: 05/02/2014 Effective Date: 05/02/2014 Last date noted as effective: 01/12/2016 Status: EFFECTIVE



ID	Location	Details	
I	73m N	Operator: WW&E (WALES AND WEST ENGLAND) LIMITED Installation Name: SANDYCROFT POULTRY PROCESSING Process: TREATMENT AND PROCESSING (OTHER THAN PACKAGING) OF ONLY ANIMAL RAW MATERIALS (OTHER THAN MILK ONLY) INTENDED FOR PRODUCTION OF FOOD OR FEED WITH A FINISHED PRODUCT CAPACITY GREATER THAN 75 T/D Permit Number: RP3936ZK Original Permit Number: AP3633HT	EPR Reference: - Issue Date: 21/03/2013 Effective Date: 21/03/2013 Last date noted as effective: 01/07/2013 Status: EFFECTIVE
I	73m N	Operator: WW&E (WALES AND WEST ENGLAND) LIMITED Installation Name: SANDYCROFT POULTRY PROCESSING Process: CREATED BY IED - DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: RP3936ZK Original Permit Number: AP3633HT	EPR Reference: - Issue Date: 21/03/2013 Effective Date: 21/03/2013 Last date noted as effective: 01/07/2013 Status: EFFECTIVE
I	73m N	Operator: 2 SISTERS FOOD GROUP LIMITED Installation Name: SANDYCROFT POULTRY PROCESSING Process: SLAUGHTERING ANIMALS AT A PLANT WITH A CARCASS PRODUCTION CAPACITY OF MORE THAN 50 TONNES PER DAY. Permit Number: YP3632EM Original Permit Number: YP3632EM	EPR Reference: - Issue Date: 22/10/2019 Effective Date: 24/11/2019 Last date noted as effective: 01/04/2021 Status: EFFECTIVE
I	73m N	Operator: 2 SISTERS FOOD GROUP LIMITED Installation Name: SANDYCROFT POULTRY PROCESSING Process: TREATMENT AND PROCESSING, OTHER THAN EXCLUSIVELY PACKAGING, OF THE FOLLOWING RAW MATERIALS, WHETHER PREVIOUSLY PROCESSED OR UNPROCESSED, INTENDED FOR THE PRODUCTION OF FOOD OR FEED (WHERE THE WEIGHT OF THE FINISHED PRODUCT EXCLUDES PACKAGING)—ONLY ANIMAL RAW MATERIALS (OTHER THAN MILK ONLY) WITH A FINISHED PRODUCT PRODUCTION CAPACITY GREATER THAN 75 TONNES PER DAY Permit Number: YP3632EM Original Permit Number: YP3632EM	EPR Reference: - Issue Date: 22/10/2019 Effective Date: 24/11/2019 Last date noted as effective: 01/04/2021 Status: EFFECTIVE



ID	Location	Details	
I	73m N	Operator: 2 SISTERS FOOD GROUP LIMITED Installation Name: SANDYCROFT POULTRY PROCESSING Process: DISPOSAL OF NON-HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 50 TONNES PER DAY (OR 100 TONNES PER DAY IF THE ONLY WASTE TREATMENT ACTIVITY IS ANAEROBIC DIGESTION) INVOLVING ONE OR MORE OF THE FOLLOWING ACTIVITIES, AND EXCLUDING ACTIVITIES COVERED BY COUNCIL DIRECTIVE 91/271/EEC CONCERNING URBAN WASTE-WATER TREATMENT(4)—PHYSICO-CHEMICAL TREATMENT Permit Number: YP3632EM Original Permit Number: YP3632EM	EPR Reference: - Issue Date: 22/10/2019 Effective Date: 24/11/2019 Last date noted as effective: 01/04/2021 Status: EFFECTIVE
I	73m N	Operator: 2 SISTERS POULTRY LIMITED Installation Name: SANDYCROFT POULTRY PROCESSING Process: SLAUGHTERING ANIMALS AT PLANT WITH A CARCASS PRODUCTION CAPACITY OF MORE THAN 50... Permit Number: YP3632EM Original Permit Number: YP3632EM	EPR Reference: - Issue Date: 05/02/2014 Effective Date: 05/02/2014 Last date noted as effective: 01/04/2018 Status: EFFECTIVE
I	73m N	Operator: CYMRU COUNTRY CHICKENS LTD Installation Name: SANDYCROFT POULTRY PROCESSING Process: ANIMAL VEGETABLE AND FOOD; TREATING ETC ANIMAL RAW MATERIALS (NOT MILK) FOR FOOD >75T/D Permit Number: UP3135LL Original Permit Number: BU2101IL	EPR Reference: - Issue Date: 09/03/2006 Effective Date: 09/03/2006 Last date noted as effective: 02/10/2009 Status: EFFECTIVE
R	227m NE	Operator: HEADLAND AGROCHEMICALS LIMITED Installation Name: PENTRE AGROCHEMICALS PLANT EPR/FP3031CW Process: - Permit Number: FP3031CW Original Permit Number: FP3031CW	EPR Reference: - Issue Date: 27/09/2013 Effective Date: 27/09/2013 Last date noted as effective: 01/12/2016 Status: EFFECTIVE
R	227m NE	Operator: HEADLAND AGROCHEMICALS LIMITED Installation Name: PENTRE AGROCHEMICALS PLANT EPR/FP3031CW Process: PRODUCING INORGANIC CHEMICALS SUCH AS: (IV) SALTS SUCH AS AMMONIUM CHLORIDE, POT... Permit Number: FP3031CW Original Permit Number: FP3031CW	EPR Reference: - Issue Date: 27/09/2013 Effective Date: 27/09/2013 Last date noted as effective: 01/04/2018 Status: EFFECTIVE



ID	Location	Details	
R	227m NE	Operator: FMC AGRO LIMITED Installation Name: PENTRE AGROCHEMICALS PLANT EPR/FP3031CW Process: PRODUCING INORGANIC CHEMICALS SUCH AS: (IV) SALTS (FOR EXAMPLE AMMONIUM CHLORIDE, POTASSIUM CHLORATE, POTASSIUM CARBONATE, SODIUM CARBONATE, PERBORATE, SILVER NITRATE, CUPRIC ACETATE, AMMONIUM PHOSPHOMOLYBDATE) Permit Number: FP3031CW Original Permit Number: FP3031CW	EPR Reference: - Issue Date: 26/02/2020 Effective Date: 26/02/2020 Last date noted as effective: 01/04/2021 Status: EFFECTIVE
R	227m NE	Operator: HEADLAND AGROCHEMICALS LIMITED Installation Name: PENTRE AGROCHEMICALS PLANT EPR/FP3031CW Process: INORGANIC CHEMICALS; SALTS EG AMMONIUM CHLORIDE Permit Number: DP3836AE Original Permit Number: FP3031CW	EPR Reference: - Issue Date: 08/10/2015 Effective Date: 08/10/2015 Last date noted as effective: 17/11/2015 Status: EFFECTIVE
R	227m NE	Operator: HEADLAND AGROCHEMICALS LIMITED Installation Name: PENTRE AGROCHEMICALS PLANT EPR/FP3031CW Process: INORGANIC CHEMICALS; SALTS EG AMMONIUM CHLORIDE Permit Number: FP3031CW Original Permit Number: FP3031CW	EPR Reference: - Issue Date: 27/09/2013 Effective Date: 27/09/2013 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
AD	494m NE	Operator: J REID TRADING LIMITED Installation Name: J REID TRADING LTD EA/EPR/MP3531MD/V002 Process: OTHER WASTE DISPOSAL; HAZARDOUS WASTE >10T/D Permit Number: MP3231GK Original Permit Number: MP3531MD	EPR Reference: - Issue Date: 06/10/2009 Effective Date: 06/10/2009 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
AD	494m NE	Operator: J REID TRADING LIMITED Installation Name: J REID TRADING LTD Process: OTHER WASTE DISPOSAL; HAZARDOUS WASTE >10T/D Permit Number: MP3531MD Original Permit Number: MP3531MD	EPR Reference: - Issue Date: 19/04/2007 Effective Date: 19/04/2007 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
AD	494m NE	Operator: J REID TRADING LIMITED Installation Name: J REID TRADING LTD EA/EPR/MP3531MD/V002 Process: OTHER WASTE DISPOSAL; HAZARDOUS WASTE >10T/D Permit Number: YP3837FR Original Permit Number: MP3531MD	EPR Reference: - Issue Date: 21/12/2011 Effective Date: 21/12/2011 Last date noted as effective: 17/11/2015 Status: SUPERCEDED



ID	Location	Details	
AD	494m NE	Operator: J REID TRADING LIMITED Installation Name: REFRIGERANT TRANSFER OPERATION EPR/MP3531MD Process: ASSOCIATED PROCESS Permit Number: ZP3031ZC Original Permit Number: MP3531MD	EPR Reference: - Issue Date: 22/03/2013 Effective Date: 22/03/2013 Last date noted as effective: 17/11/2015 Status: EFFECTIVE
AD	494m NE	Operator: J REID TRADING LIMITED Installation Name: REFRIGERANT TRANSFER OPERATION EPR/MP3531MD Process: DISPOSAL OR RECOVERY OF HAZ WASTE WITH CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING REPACKAGING PRIOR TO SUBMISSION TO ANY OF THE OTHER ACTIVITIES LISTED IN THIS SECTION OR IN SECTION 5.1 Permit Number: ZP3031ZC Original Permit Number: MP3531MD	EPR Reference: - Issue Date: 22/03/2013 Effective Date: 22/03/2013 Last date noted as effective: 17/11/2015 Status: EFFECTIVE
AD	494m NE	Operator: J REID TRADING LIMITED Installation Name: J REID TRADING LTD EPR/MP3531MD/V003 Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER ... Permit Number: MP3531MD Original Permit Number: ZP3031ZC	EPR Reference: - Issue Date: 22/03/2013 Effective Date: 22/03/2013 Last date noted as effective: 26/10/2020 Status: EFFECTIVE
AD	494m NE	Operator: J REID TRADING LIMITED Installation Name: J REID TRADING LTD EPR/MP3531MD/V003 Process: - Permit Number: MP3531MD Original Permit Number: ZP3031ZC	EPR Reference: - Issue Date: 12/01/2021 Effective Date: 12/01/2021 Last date noted as effective: 01/04/2021 Status: EFFECTIVE
AD	494m NE	Operator: J REID TRADING LIMITED Installation Name: J REID TRADING LTD EPR/MP3531MD/V003 Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING ONE OR MORE OF THE FOLLOWING ACTIVITIES - REPACKAGING PRIOR TO SUBMISSION TO ANY OTHER ACTIVITIES IN THIS SECTION OR IN SECTION 5.1 Permit Number: MP3531MD Original Permit Number: ZP3031ZC	EPR Reference: - Issue Date: 12/01/2021 Effective Date: 12/01/2021 Last date noted as effective: 01/04/2021 Status: EFFECTIVE



ID	Location	Details	
AD	494m NE	Operator: J REID TRADING LIMITED Installation Name: J REID TRADING LTD EPR/MP3531MD/V003 Process: DISPOSAL OR RECOVERY OF HAZ WASTE WITH CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING REPACKAGING PRIOR TO SUBMISSION TO ANY OF THE OTHER ACTIVITIES LISTED IN THIS SECTION OR IN SECTION 5.1 Permit Number: ZP3031ZC Original Permit Number: MP3531MD	EPR Reference: - Issue Date: 22/03/2013 Effective Date: 22/03/2013 Last date noted as effective: 01/07/2013 Status: EFFECTIVE
AD	494m NE	Operator: J REID TRADING LIMITED Installation Name: J REID TRADING LTD EPR/MP3531MD/V003 Process: - Permit Number: MP3531MD Original Permit Number: ZP3031ZC	EPR Reference: - Issue Date: 22/03/2013 Effective Date: 22/03/2013 Last date noted as effective: 01/12/2016 Status: EFFECTIVE
AC	499m NW	Operator: KNAUF INSTALLATION LIMITED Installation Name: QUEENSFERRY MINERAL FIBRE WORKS Process: GLASS AND GLASS FIBRE; GLASS/ENAMEL FRIT MANUFACTURE >100T/12 MONTHS Permit Number: GP3737XW Original Permit Number: BR9383ID	EPR Reference: - Issue Date: 12/02/2009 Effective Date: 12/02/2009 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
AC	499m NW	Operator: KNAUF INSTALLATION LIMITED Installation Name: QUEENSFERRY MINERAL FIBRE WORKS Process: GLASS AND GLASS FIBRE; GLASS/ENAMEL FRIT MANUFACTURE >100T/12 MONTHS Permit Number: NP3835SW Original Permit Number: BR9383ID	EPR Reference: - Issue Date: 11/02/2005 Effective Date: 23/02/2005 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
AC	499m NW	Operator: KNAUF INSULATION LTD Installation Name: QUEENSFERRY MINERAL FIBRE WORKS EPR/BR9383ID Process: GLASS AND GLASS FIBRE; GLASS/ENAMEL FRIT MANUFACTURE >100T/12 MONTHS Permit Number: GP3230RF Original Permit Number: BR9383ID	EPR Reference: - Issue Date: 31/07/2015 Effective Date: 31/07/2015 Last date noted as effective: 17/11/2015 Status: EFFECTIVE
AC	499m NW	Operator: KNAUF INSULATION LTD Installation Name: QUEENSFERRY MINERAL FIBRE WORKS EPR/BR9383ID Process: OTHER MINERAL FIBRES; MELTING >20 T/D (UNLESS 3.3 A(1) OR (2)) Permit Number: GP3230RF Original Permit Number: BR9383ID	EPR Reference: - Issue Date: 31/07/2015 Effective Date: 31/07/2015 Last date noted as effective: 17/11/2015 Status: EFFECTIVE



ID	Location	Details	
AC	499m NW	Operator: KNAUF INSULATION LTD Installation Name: QUEENSFERRY MINERAL FIBRE WORKS Process: GLASS AND GLASS FIBRE; GLASS/ENAMEL FRIT MANUFACTURE >100T/12 MONTHS Permit Number: PP3335HJ Original Permit Number: BR9383ID	EPR Reference: - Issue Date: 21/02/2011 Effective Date: 21/02/2011 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
AC	499m NW	Operator: KNAUF INSULATION LTD Installation Name: QUEENSFERRY MINERAL FIBRE WORKS Process: GLASS AND GLASS FIBRE; GLASS/ENAMEL FRIT MANUFACTURE >100T/12 MONTHS Permit Number: PP3431ZH Original Permit Number: BR9383ID	EPR Reference: - Issue Date: 04/03/2013 Effective Date: 04/03/2013 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
AC	499m NW	Operator: KNAUF INSULATION LTD Installation Name: QUEENSFERRY MINERAL FIBRE WORKS Process: OTHER MINERAL FIBRES; MELTING >20 T/D (UNLESS 3.3 A(1) OR (2)) Permit Number: PP3431ZH Original Permit Number: BR9383ID	EPR Reference: - Issue Date: 04/03/2013 Effective Date: 04/03/2013 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
AC	499m NW	Operator: KNAUF INSULATION LTD Installation Name: QUEENSFERRY MINERAL FIBRE WORKS Process: MELTING MINERAL SUBSTANCES INCLUDING THE PRODUCTION OF MINERAL FIBRES WITH A MEL... Permit Number: BR9383ID Original Permit Number: GP3230RF	EPR Reference: - Issue Date: 08/08/2017 Effective Date: 08/08/2017 Last date noted as effective: 01/04/2018 Status: EFFECTIVE
AC	499m NW	Operator: KNAUF INSULATION LTD Installation Name: QUEENSFERRY MINERAL FIBRE WORKS Process: MELTING MINERAL SUBSTANCES INCLUDING THE PRODUCTION OF MINERAL FIBRES IN PLANTS WITH A MELTING CAPACITY EXCEEDING 20 TONNES PER DAY Permit Number: BR9383ID Original Permit Number: GP3230RF	EPR Reference: - Issue Date: 29/01/2020 Effective Date: 29/01/2020 Last date noted as effective: 01/04/2021 Status: EFFECTIVE
AC	499m NW	Operator: KNAUF INSULATION LTD Installation Name: QUEENSFERRY MINERAL FIBRE WORKS Process: - Permit Number: BR9383ID Original Permit Number: -	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 01/04/2017 Status: DULY MADE

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



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

Records within 500m

7

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.

Features are displayed on the Current industrial land use map on **page 56**

ID	Location	Address	Details	
1	On site	Sandycroft Textile Services Ltd, Chester Road, Sandycroft, Flintshire, CH5 2QW	Process: Dry Cleaning Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
31	298m S	Pasell Uk Ltd, Flint Road, Saltney Ferry, Flintshire, CH4 0GZ	Process: Use of Bulk Cement Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
33	375m NW	Hope Ready Mixed Concrete Ltd, Prince William Avenue, Sandycroft, Deeside, Flintshire, CH5 2QZ	Process: Use of Bulk Cement Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
AA	425m NE	Mcalpine Business Services, Factory Road, Sandycroft, Deeside, Flintshire, CH5 2QJ	Process: Engineering Works Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
AA	425m NE	Waste Oil Burner, Carillion, Prospect House, CH5 2QJ	Process: Waste Oil Burner 0.4 MW Status: New Legislation Applies Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
40	461m NE	Spraytone Ltd, Factory Road, Sandycroft, Flintshire, CH5 2QJ	Process: Respraying of Road Vehicles Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
42	490m NE	Trident Metals, Factory Road, Sandycroft, Deeside, Flintshire, CH5 2QJ	Process: Various Aluminium Processes Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

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
15

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 56**

ID	Location	Address	Details	
8	44m SE	SALTNEY CENTRAL TRADING ESTATE UNIT, SALTNEY CENTRAL TRADING ESTATE U, CENTRAL TRADING ESTATE UNIT 14, UNIT 14	Effluent Type: UNSPECIFIED Permit Number: CM0087501 Permit Version: 1 Receiving Water: PENTRE DRAIN NORTH	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 06/02/1980 Effective Date: 06/02/1980 Revocation Date: 26/04/1995
E	47m NE	HOUSING ESTATE OFF HAMILTON AVENUE, HOUSING ESTATE OFF HAMILTON AVEN, OFF HAMILTON AVENUE SANDYCROFT, SANDYCROFT	Effluent Type: UNSPECIFIED Permit Number: CM0045901 Permit Version: 1 Receiving Water: PENTRE DRAIN NORTH	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 16/11/1967 Effective Date: 16/11/1967 Revocation Date: 05/04/1995
K	90m SW	SEPTIC TANK SERVING COURTYARD 1, COURTYARD 1 THE BOWERY, DEESIDE LANE, SEALAND, Chester, CH1 6BQ	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: TB3297TA Permit Version: 1 Receiving Water: groundwater via infiltration system	Status: Effective Issue date: 11/09/2013 Effective Date: 11/09/2013 Revocation Date: -
K	90m SW	SEPTIC TANK SERVING COURTYARD 1, COURTYARD 1, THE BOWERY, DEESIDE LANE, SEALAND, CHESTER, CH1 6BQ	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: EPRTB3297TA Permit Version: 1 Receiving Water: GROUNDWATER	Status: NEW ISSUED UNDER EPR 2010 Issue date: 11/09/2013 Effective Date: 11/09/2013 Revocation Date: -
K	90m SW	SEPTIC TANK SERVING COURTYARD 1, COURTYARD 1, THE BOWERY, DEESIDE LANE, SEALAND, CHESTER, CH1 6BQ	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: EPRTB3297TA Permit Version: 1 Receiving Water: GROUNDWATER	Status: NEW ISSUED UNDER EPR 2010 Issue date: 11/09/2013 Effective Date: 11/09/2013 Revocation Date: -



ID	Location	Address	Details	
16	93m SE	CORNER HOLDING RAKE LANE HAWARDEN, CORNER HOLDING, RAKE LANE, HAWARDEN, FLINTSHIRE, CH5 3PN	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CG0401901 Permit Version: 1 Receiving Water: UNNAMED WATERCOURSE	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY Issue date: 03/07/2002 Effective Date: 03/07/2002 Revocation Date: -
K	110m W	SEPTIC TANK SERVING COURTYARD 2, COURTYARD 2 THE BOWERY, DEESIDE LANE, SEALAND, Chester, CH1 6BQ	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: TB3697TS Permit Version: 1 Receiving Water: groundwater via infiltration system	Status: Effective Issue date: 11/09/2013 Effective Date: 11/09/2013 Revocation Date: -
K	110m W	SEPTIC TANK SERVING COURTYARD 2, COURTYARD 2, THE BOWERY, DEESIDE LANE, SEALAND, CHESTER, CH1 6BQ	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: EPRTB3697TS Permit Version: 1 Receiving Water: GROUNDWATER	Status: NEW ISSUED UNDER EPR 2010 Issue date: 11/09/2013 Effective Date: 11/09/2013 Revocation Date: -
K	110m W	SEPTIC TANK SERVING COURTYARD 2, COURTYARD 2, THE BOWERY, DEESIDE LANE, SEALAND, CHESTER, CH1 6BQ	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: EPRTB3697TS Permit Version: 1 Receiving Water: GROUNDWATER	Status: NEW ISSUED UNDER EPR 2010 Issue date: 11/09/2013 Effective Date: 11/09/2013 Revocation Date: -
Q	195m NE	Sandycroft Phoenix Street CSO, Phoenix St, SANDYCROFT, DEESIDE, CH5 2PE	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: CM0166201 Permit Version: 5 Receiving Water: BROUGHTON BROOK	Status: Effective Issue date: 31/10/2019 Effective Date: 31/10/2019 Revocation Date: -
37	416m NE	DEESIDE SANDYCROFT ENGINEER PARK IN, DEESIDE SANDYCROFT ENGINEER PARK, SANDYCROFT ENGINEER PARK INDUSTRI, ENGINEER PARK INDUSTRIAL ESTAT	Effluent Type: UNSPECIFIED Permit Number: CM0086001 Permit Version: 1 Receiving Water: TRIB.OF SANDYCROFT DRAIN	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 05/09/1979 Effective Date: 05/09/1979 Revocation Date: 17/06/1996
38	418m NW	MANCOT - COTTAGE LANE	Effluent Type: UNSPECIFIED Permit Number: CM0117101 Permit Version: 1 Receiving Water: UNNAMED TRIB. OF QUEENSFERRY D	Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV Issue date: 08/02/1967 Effective Date: 08/02/1967 Revocation Date: 04/03/2004



ID	Location	Address	Details	
39	439m NW	QUEENSFERRY PENTRE PUMPING STATION, MANCOT LANE, MANCOT, Flintshire, WALES, CH5 2AJ	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: CG0415201 Permit Version: 1 Receiving Water: QUEENSFERRY DITCH	Status: Effective Issue date: 04/03/2004 Effective Date: 04/03/2004 Revocation Date: -
AB	464m NE	SANDYCROFT PHOENIX STREET - SSO	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: CM0166201 Permit Version: 4 Receiving Water: BROUGHTON BROOK	Status: Effective Issue date: 31/03/2007 Effective Date: 31/03/2007 Revocation Date: -
41	468m NW	PRINCE WILLIAM AVENUE SANDYCROFT C, PRINCE WILLIAM AVENUE, SANDYCROFT, CHESTER, Flintshire	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: CG0320201 Permit Version: 1 Receiving Water: River Dee	Status: Effective Issue date: 21/08/1991 Effective Date: 21/08/1991 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

0

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

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

0

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.

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



4.17 List 2 Dangerous Substances

Records within 500m	0
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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.

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m	156
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Records of substantiated pollution incidents. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

Features are displayed on the Current industrial land use map on **page 56**

ID	Location	Details	
2	On site	Incident Date: 04/04/2013 Incident Identification: 1099472 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
A	On site	Incident Date: 10/07/2013 Incident Identification: 1131334 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
A	On site	Incident Date: 29/01/2014 Incident Identification: 1199274 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
A	On site	Incident Date: 08/07/2013 Incident Identification: 1130347 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	On site	Incident Date: 02/09/2015 Incident Identification: 1369849 Pollutant: - Pollutant Description: -	Water Impact: - Land Impact: - Air Impact: -
B	12m NW	Incident Date: 08/04/2013 Incident Identification: 1100585 Pollutant: Multiple Pollutants Pollutant Description: 2 Pollutants Including Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

ID	Location	Details	
4	13m NW	Incident Date: 01/04/2003 Incident Identification: 147693 Pollutant: Contaminated Water Pollutant Description: Minewater	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	13m NW	Incident Date: 25/08/2013 Incident Identification: 1151969 Pollutant: Other Pollutant Pollutant Description: Noise	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	21m NW	Incident Date: 11/03/2014 Incident Identification: 1216739 Pollutant: Other Pollutant Pollutant Description: Noise	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
6	22m SW	Incident Date: 11/09/2015 Incident Identification: 1372562 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
B	29m NE	Incident Date: 06/06/2013 Incident Identification: 1119746 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	36m NW	Incident Date: 24/07/2014 Incident Identification: 1260378 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	49m N	Incident Date: 05/06/2013 Incident Identification: 1119315 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	49m N	Incident Date: 06/08/2013 Incident Identification: 1144622 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	49m N	Incident Date: 29/09/2013 Incident Identification: 1163346 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	49m N	Incident Date: 16/07/2015 Incident Identification: 1355818 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)



ID	Location	Details	
B	49m N	Incident Date: 17/06/2013 Incident Identification: 1123338 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	49m N	Incident Date: 30/08/2015 Incident Identification: 1369241 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Blood and Offal	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	49m N	Incident Date: 10/04/2013 Incident Identification: 1101506 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	49m N	Incident Date: 04/06/2013 Incident Identification: 1118938 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	49m N	Incident Date: 08/09/2013 Incident Identification: 1157507 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	49m N	Incident Date: 30/09/2013 Incident Identification: 1163509 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	49m N	Incident Date: 11/06/2015 Incident Identification: 1344515 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
9	53m NW	Incident Date: 04/06/2013 Incident Identification: 1118721 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
E	57m NE	Incident Date: 22/09/2013 Incident Identification: 1161179 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
E	57m NE	Incident Date: 23/05/2013 Incident Identification: 1115621 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)



ID	Location	Details	
E	57m NE	Incident Date: 10/09/2013 Incident Identification: 1158203 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
E	57m NE	Incident Date: 23/08/2013 Incident Identification: 1151446 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
E	57m NE	Incident Date: 11/09/2013 Incident Identification: 1158641 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
E	61m NE	Incident Date: 01/05/2013 Incident Identification: 1108314 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
F	62m NE	Incident Date: 04/08/2014 Incident Identification: 1264655 Pollutant: Oils and Fuel Pollutant Description: Mixed/Waste Oils	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
F	63m NE	Incident Date: 21/05/2013 Incident Identification: 1114949 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
11	66m SE	Incident Date: 11/10/2013 Incident Identification: 1166972 Pollutant: Multiple Pollutants Pollutant Description: 2 Pollutants Including Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
H	68m NE	Incident Date: 15/07/2013 Incident Identification: 1133129 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
H	68m NE	Incident Date: 20/05/2013 Incident Identification: 1114503 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
12	69m NW	Incident Date: 18/06/2013 Incident Identification: 1123585 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)



ID	Location	Details	
C	74m NE	Incident Date: 01/09/2014 Incident Identification: 1273035 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
I	77m NE	Incident Date: 11/11/2015 Incident Identification: 1387136 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
13	77m NW	Incident Date: 23/10/2015 Incident Identification: 1383044 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
E	78m NE	Incident Date: 16/07/2013 Incident Identification: 1134011 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
14	78m SW	Incident Date: 28/02/2003 Incident Identification: 140203 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
J	82m NE	Incident Date: 15/07/2015 Incident Identification: 1355392 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: - Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
J	84m NE	Incident Date: 22/08/2015 Incident Identification: 1367134 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Natural Organic Material	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
J	86m NE	Incident Date: 16/01/2014 Incident Identification: 1194704 Pollutant: Oils and Fuel Pollutant Description: Unidentified Oil	Water Impact: - Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
E	89m NE	Incident Date: 04/07/2013 Incident Identification: 1128995 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
E	90m NE	Incident Date: 04/08/2014 Incident Identification: 1264741 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)



ID	Location	Details	
E	90m NE	Incident Date: 06/05/2013 Incident Identification: 1109977 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
E	97m NE	Incident Date: 24/06/2013 Incident Identification: 1125463 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
E	97m NE	Incident Date: 26/06/2013 Incident Identification: 1126180 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
E	97m NE	Incident Date: 19/06/2013 Incident Identification: 1124119 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
E	97m NE	Incident Date: 07/08/2013 Incident Identification: 1145130 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
L	114m E	Incident Date: 30/05/2013 Incident Identification: 1117391 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
L	114m E	Incident Date: 09/09/2013 Incident Identification: 1157946 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
L	114m E	Incident Date: 01/09/2013 Incident Identification: 1154550 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
L	114m E	Incident Date: 13/09/2013 Incident Identification: 1159189 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
19	114m NE	Incident Date: 04/02/2002 Incident Identification: 56344 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)



ID	Location	Details	
L	119m E	Incident Date: 16/08/2013 Incident Identification: 1148455 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
L	119m E	Incident Date: 17/10/2013 Incident Identification: 1168513 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
L	119m E	Incident Date: 25/09/2013 Incident Identification: 1162324 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
L	119m E	Incident Date: 01/07/2013 Incident Identification: 1127501 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
L	119m E	Incident Date: 09/09/2015 Incident Identification: 1371899 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
L	119m E	Incident Date: 19/09/2013 Incident Identification: 1160479 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
L	119m E	Incident Date: 27/08/2013 Incident Identification: 1152771 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
L	119m E	Incident Date: 24/09/2013 Incident Identification: 1161995 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
L	119m E	Incident Date: 03/09/2013 Incident Identification: 1155510 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
C	123m NE	Incident Date: 25/07/2014 Incident Identification: 1260658 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)



ID	Location	Details	
C	123m NE	Incident Date: 21/07/2014 Incident Identification: 1258455 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
C	123m NE	Incident Date: 07/08/2014 Incident Identification: 1266009 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
C	123m NE	Incident Date: 22/07/2014 Incident Identification: 1259118 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
22	140m SE	Incident Date: 31/01/2014 Incident Identification: 1200233 Pollutant: - Pollutant Description: -	Water Impact: - Land Impact: - Air Impact: -
N	149m NE	Incident Date: 04/08/2014 Incident Identification: 1264554 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
N	149m NE	Incident Date: 23/07/2014 Incident Identification: 1259775 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
P	175m NE	Incident Date: 02/06/2013 Incident Identification: 1118005 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
P	178m NE	Incident Date: 15/07/2013 Incident Identification: 1133596 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
R	207m N	Incident Date: 05/11/2001 Incident Identification: 41162 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
Q	223m NE	Incident Date: 29/03/2014 Incident Identification: 1222335 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)



ID	Location	Details	
Q	223m NE	Incident Date: 22/08/2013 Incident Identification: 1150589 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
R	227m N	Incident Date: 08/09/2014 Incident Identification: 1275157 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
R	235m N	Incident Date: 18/08/2015 Incident Identification: 1365778 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
S	238m NE	Incident Date: 30/05/2013 Incident Identification: 1117276 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
R	244m N	Incident Date: 26/04/2002 Incident Identification: 75118 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
R	247m N	Incident Date: 31/05/2013 Incident Identification: 1117535 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
R	249m N	Incident Date: 19/09/2014 Incident Identification: 1279219 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
R	251m N	Incident Date: 23/06/2014 Incident Identification: 1248215 Pollutant: Multiple Pollutants Pollutant Description: 2 Pollutants Including Dust	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
R	257m N	Incident Date: 27/04/2013 Incident Identification: 1107176 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Soot/Smuts	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
R	261m N	Incident Date: 27/03/2015 Incident Identification: 1324077 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Droplets	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)



ID	Location	Details	
R	262m N	Incident Date: 25/07/2015 Incident Identification: 1358470 Pollutant: Other Pollutant Pollutant Description: Noise	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
R	263m N	Incident Date: 25/06/2013 Incident Identification: 1125781 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Damage to Buildings, Vehicles and Vegetation	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
Q	265m NE	Incident Date: 02/08/2013 Incident Identification: 1143057 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
Q	265m NE	Incident Date: 25/07/2015 Incident Identification: 1358493 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
Q	265m NE	Incident Date: 07/08/2015 Incident Identification: 1362347 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
Q	265m NE	Incident Date: 17/07/2013 Incident Identification: 1134730 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
Q	265m NE	Incident Date: 24/07/2015 Incident Identification: 1358384 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
Q	265m NE	Incident Date: 22/07/2013 Incident Identification: 1137270 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
Q	265m NE	Incident Date: 05/09/2013 Incident Identification: 1156601 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
Q	265m NE	Incident Date: 18/07/2013 Incident Identification: 1135391 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)



ID	Location	Details	
Q	265m NE	Incident Date: 10/06/2015 Incident Identification: 1344132 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
R	267m N	Incident Date: 10/08/2013 Incident Identification: 1146287 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
R	268m N	Incident Date: 18/04/2014 Incident Identification: 1228381 Pollutant: Other Pollutant Pollutant Description: Noise	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
R	269m N	Incident Date: 15/10/2015 Incident Identification: 1380901 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
R	269m N	Incident Date: 17/02/2016 Incident Identification: 1411988 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
S	270m E	Incident Date: 21/05/2013 Incident Identification: 1114867 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
R	271m N	Incident Date: 11/07/2014 Incident Identification: 1255038 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
R	273m N	Incident Date: 11/05/2002 Incident Identification: 78087 Pollutant: Inert Materials and Wastes Pollutant Description: Mineral Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
Q	274m NE	Incident Date: 28/08/2016 Incident Identification: 1604986 Pollutant: - Pollutant Description: -	Water Impact: - Land Impact: - Air Impact: -
T	276m NW	Incident Date: 09/06/2003 Incident Identification: 164486 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)



ID	Location	Details	
R	276m N	Incident Date: 23/01/2014 Incident Identification: 1197344 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
R	277m N	Incident Date: 06/06/2002 Incident Identification: 83192 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
R	277m N	Incident Date: 26/04/2013 Incident Identification: 1106989 Pollutant: Multiple Pollutants Pollutant Description: 2 Pollutants Including Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
R	277m N	Incident Date: 06/06/2002 Incident Identification: 83192 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
R	277m N	Incident Date: 06/06/2002 Incident Identification: 83192 Pollutant: Atmospheric Pollutants and Effects:Pollutant Not Identified Pollutant Description: Other Atmospheric Pollutant or Effect:Not Identified	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
U	278m NE	Incident Date: 28/03/2017 Incident Identification: 1701594 Pollutant: - Pollutant Description: -	Water Impact: Other Land Impact: Other Air Impact: Other
T	280m N	Incident Date: 19/11/2015 Incident Identification: 1389206 Pollutant: Oils and Fuel Pollutant Description: Cutting Oils	Water Impact: - Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
U	281m NE	Incident Date: 10/09/2013 Incident Identification: 1158070 Pollutant: - Pollutant Description: -	Water Impact: - Land Impact: - Air Impact: -
U	283m NE	Incident Date: 23/05/2001 Incident Identification: 6407 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
S	283m NE	Incident Date: 12/04/2013 Incident Identification: 1102150 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)



ID	Location	Details	
R	284m N	Incident Date: 23/06/2015 Incident Identification: 1347912 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
30	286m NE	Incident Date: 13/08/2013 Incident Identification: 1147277 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
Q	288m NE	Incident Date: 18/05/2013 Incident Identification: 1113859 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
R	291m N	Incident Date: 12/03/2014 Incident Identification: 1216947 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
R	293m N	Incident Date: 28/11/2013 Incident Identification: 1179568 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
T	294m N	Incident Date: 09/06/2003 Incident Identification: 164502 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
R	295m N	Incident Date: 16/07/2013 Incident Identification: 1134275 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
S	301m NE	Incident Date: 20/05/2013 Incident Identification: 1114597 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
V	304m NE	Incident Date: 30/10/2002 Incident Identification: 117695 Pollutant: Agricultural Materials and Wastes Pollutant Description: Other Agricultural Material or Waste	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
R	305m N	Incident Date: 27/09/2013 Incident Identification: 1162695 Pollutant: Multiple Pollutants Pollutant Description: 2 Pollutants Including Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)



ID	Location	Details	
V	306m NE	Incident Date: 13/10/2016 Incident Identification: 1606230 Pollutant: Sewage Material Pollutant Description: Other Sewage Material	Water Impact: Category 3 (Minor) Land Impact: No Details Air Impact: Category 3 (Minor)
V	306m NE	Incident Date: 13/10/2016 Incident Identification: 1606230 Pollutant: - Pollutant Description: -	Water Impact: Category 3 (Minor) Land Impact: No Details Air Impact: Category 3 (Minor)
R	310m N	Incident Date: 26/04/2013 Incident Identification: 1106990 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
R	329m N	Incident Date: 10/05/2013 Incident Identification: 1111462 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
32	349m NE	Incident Date: 27/08/2015 Incident Identification: 1368613 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
W	360m NW	Incident Date: 16/03/2016 Incident Identification: 1600971 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: No Details Land Impact: No Details Air Impact: Category 3 (Minor)
W	360m NW	Incident Date: 16/03/2016 Incident Identification: 1600971 Pollutant: - Pollutant Description: -	Water Impact: No Details Land Impact: No Details Air Impact: Category 3 (Minor)
X	364m N	Incident Date: 02/09/2015 Incident Identification: 1370021 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
34	395m NE	Incident Date: 08/11/2013 Incident Identification: 1174920 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
X	403m N	Incident Date: 13/03/2014 Incident Identification: 1217688 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)



ID	Location	Details	
35	404m S	Incident Date: 24/02/2014 Incident Identification: 1211470 Pollutant: Multiple Pollutants Pollutant Description: 5 Pollutants Including Tyres	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
36	406m N	Incident Date: 28/09/2015 Incident Identification: 1376454 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
Y	407m E	Incident Date: 29/04/2013 Incident Identification: 1107552 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
Y	407m E	Incident Date: 11/09/2013 Incident Identification: 1158508 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
Y	407m E	Incident Date: 12/09/2013 Incident Identification: 1158894 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
Z	424m NE	Incident Date: 05/04/2013 Incident Identification: 1099840 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
Z	425m NE	Incident Date: 18/06/2015 Incident Identification: 1346544 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
Z	425m NE	Incident Date: 12/08/2013 Incident Identification: 1147004 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
Z	425m NE	Incident Date: 09/06/2014 Incident Identification: 1243664 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
Z	425m NE	Incident Date: 28/02/2016 Incident Identification: 1414758 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)



ID	Location	Details	
Z	426m NE	Incident Date: 20/09/2013 Incident Identification: 1160888 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
Z	428m NE	Incident Date: 12/08/2013 Incident Identification: 1146803 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
AA	438m NE	Incident Date: 22/07/2014 Incident Identification: 1259193 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
AB	451m NE	Incident Date: 13/09/2001 Incident Identification: 30554 Pollutant: Sewage Materials Pollutant Description: Storm Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
AB	483m NE	Incident Date: 31/05/2001 Incident Identification: 7163 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
AC	485m NW	Incident Date: 15/10/2013 Incident Identification: 1167691 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
43	495m S	Incident Date: 04/10/2001 Incident Identification: 34868 Pollutant: Contaminated Water Pollutant Description: Suspended Solids	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
AB	496m NE	Incident Date: 06/10/2001 Incident Identification: 35036 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
AE	497m NE	Incident Date: 17/02/2017 Incident Identification: 1700832 Pollutant: - Pollutant Description: -	Water Impact: Category 3 (Minor) Land Impact: No Details Air Impact: No Details
AE	497m NE	Incident Date: 17/02/2017 Incident Identification: 1700832 Pollutant: Sewage Material Pollutant Description: Grey Water	Water Impact: Category 3 (Minor) Land Impact: No Details Air Impact: No Details

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

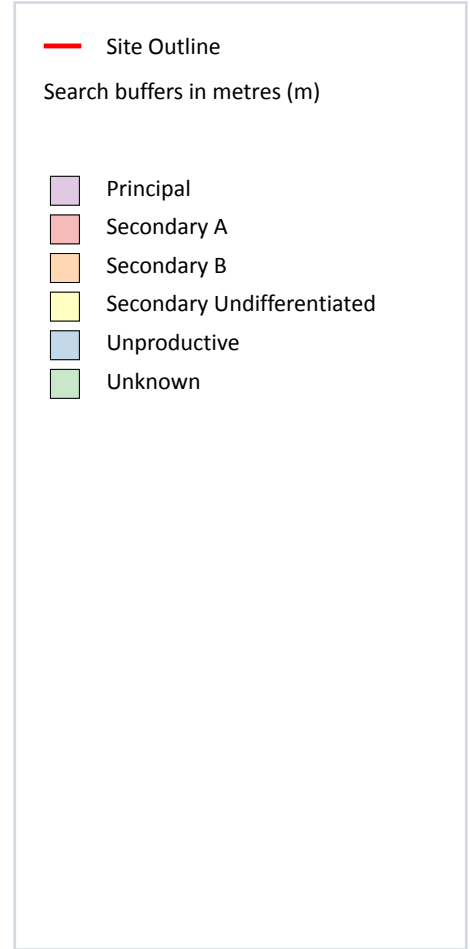
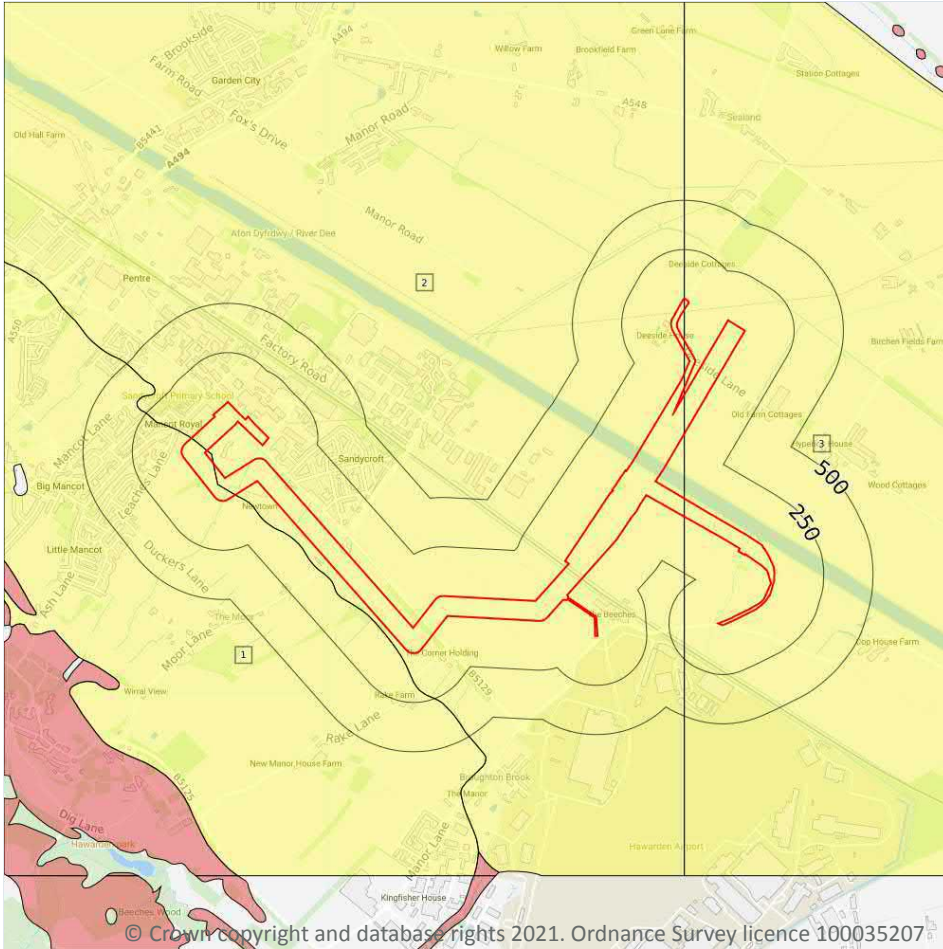
Records within 500m

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



5.1 Superficial aquifer

Records within 500m

3

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 91**

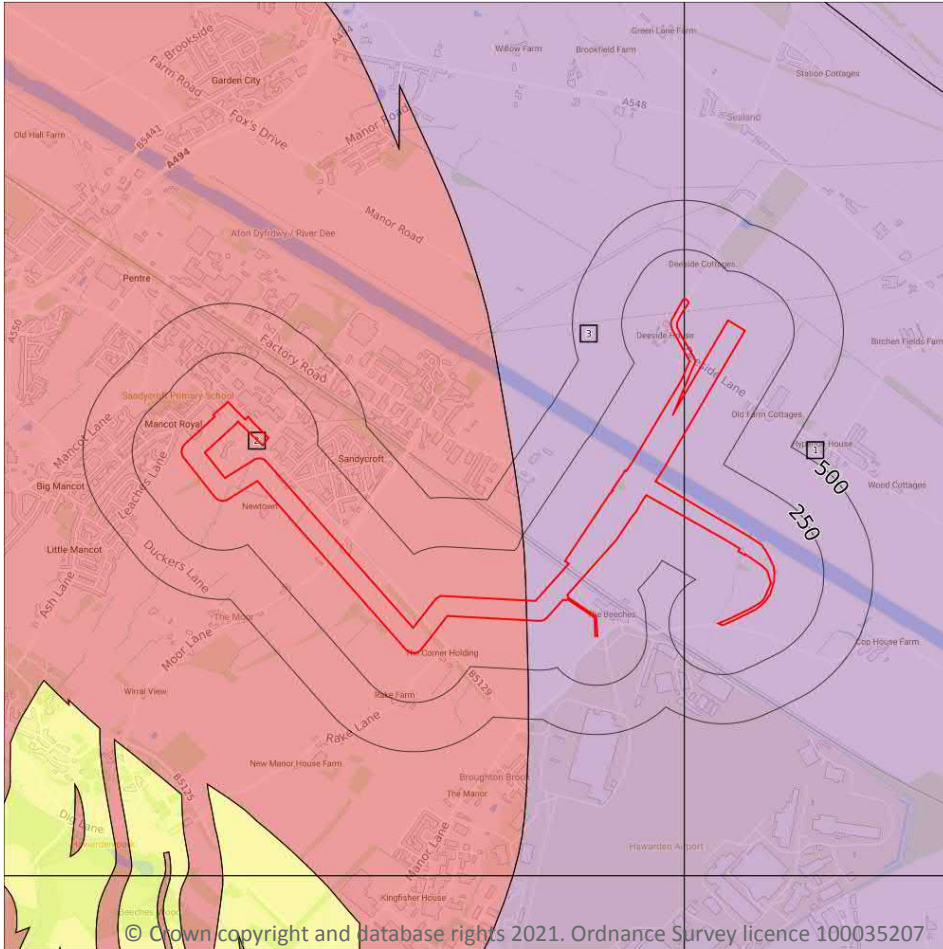
ID	Location	Designation	Description
1	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
2	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

ID	Location	Designation	Description
3	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

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

3

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on [page 93](#)

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

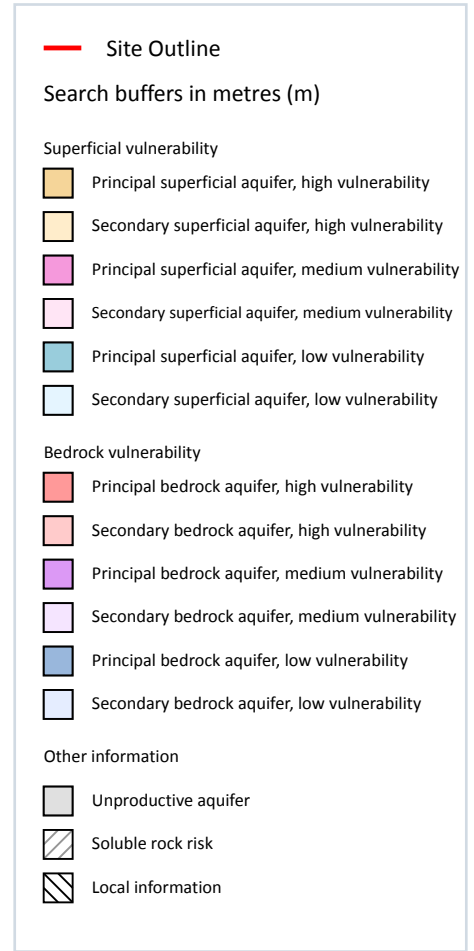
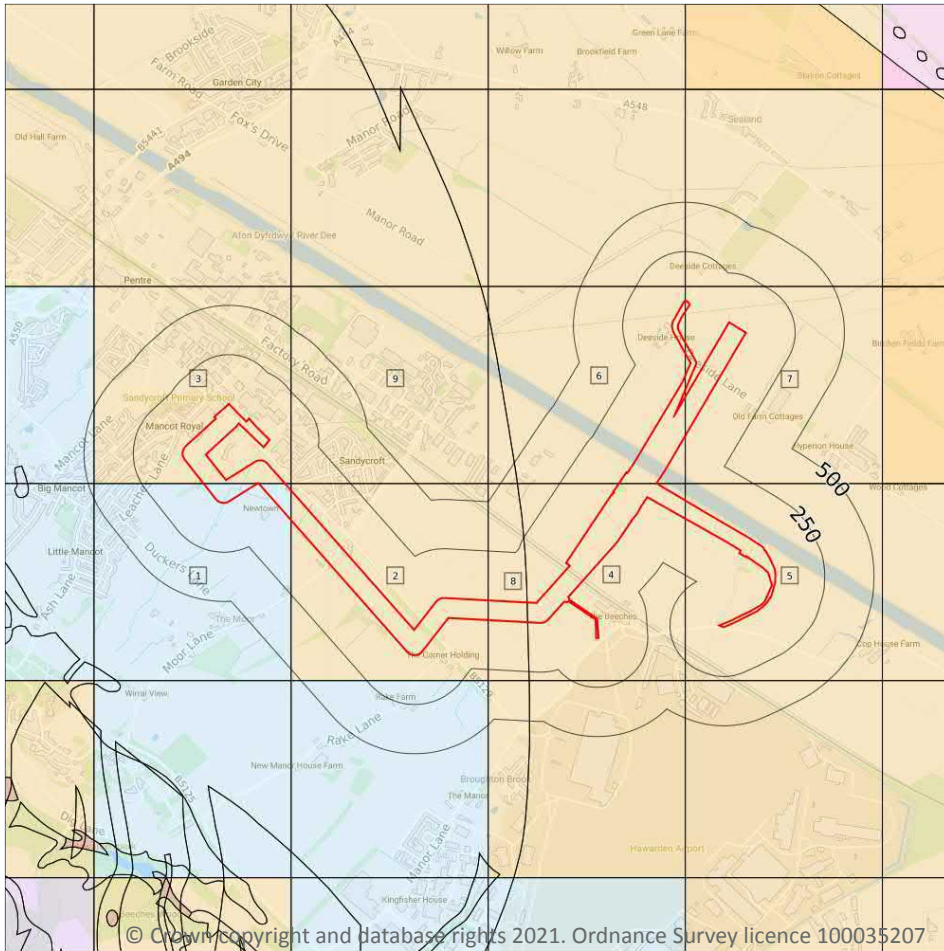


ID	Location	Designation	Description
3	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

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

9

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 95**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
2	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
3	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
4	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Well connected fractures
5	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Intergranular
6	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Medium Aquifer type: Principal Flow mechanism: Well connected fractures



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
7	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Intergranular
8	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
9	23m NE	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low 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

0

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

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

5.5 Groundwater vulnerability- local information

Records on site

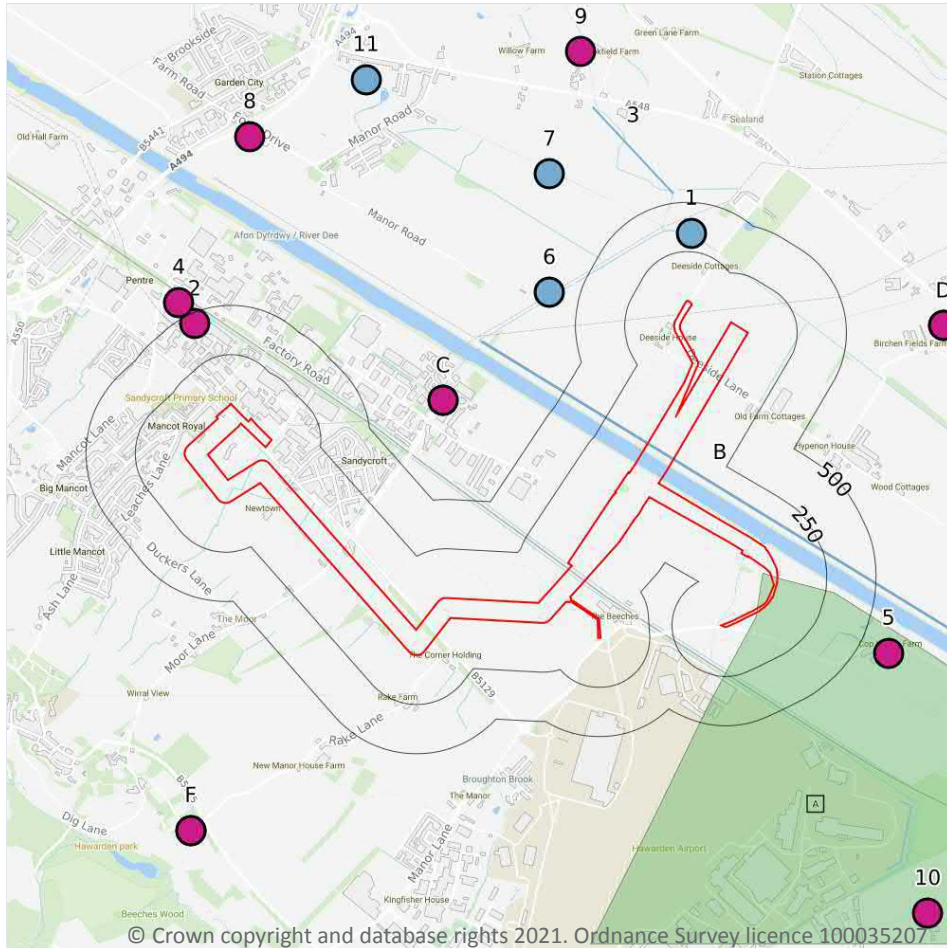
0

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



5.6 Groundwater abstractions

Records within 2000m

14

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.

Features are displayed on the Abstractions and Source Protection Zones map on **page 98**

ID	Location	Details	
B	On site	Status: Historical Licence No: 24/67/10/0141 Details: Spray Irrigation - Direct Direct Source: EAW Groundwater Point: REACH A - A ON THE SEALAND MAIN DRAIN Data Type: Line Name: WT Banks & Co. (Farming) Ltd. Easting: 333960 Northing: 367720	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 01/08/2003 Expiry Date: 31/03/2014 Issue No: 1 Version Start Date: 01/08/2003 Version End Date: -
2	446m NW	Status: Historical Licence No: 24/67/10/0106 Details: Process water Direct Source: EAW Groundwater Point: WELL B Data Type: Point Name: Knauf Insulation Ltd Easting: 332500 Northing: 367810	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 15/12/1983 Expiry Date: - Issue No: 103 Version Start Date: 01/01/2003 Version End Date: -
4	580m NW	Status: Historical Licence No: 24/67/10/0106 Details: Process water Direct Source: EAW Groundwater Point: WELL A Data Type: Point Name: Knauf Insulation Ltd Easting: 332420 Northing: 367920	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 15/12/1983 Expiry Date: - Issue No: 103 Version Start Date: 01/01/2003 Version End Date: -
5	650m SE	Status: Historical Licence No: 24/67/10/0009 Details: General Farming & Domestic Direct Source: EAW Groundwater Point: WELL Data Type: Point Name: Edge Easting: 336020 Northing: 366140	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 05/07/1966 Expiry Date: - Issue No: 100 Version Start Date: 12/04/1968 Version End Date: -
C	871m NE	Status: Historical Licence No: 24/67/10/0112 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: EAW Groundwater Point: BOREHOLE Data Type: Point Name: Archimica Limited Easting: 333760 Northing: 367420	Annual Volume (m ³): 119814 Max Daily Volume (m ³): 327.36 Original Application No: - Original Start Date: 16/08/1988 Expiry Date: 31/03/2008 Issue No: 106 Version Start Date: 01/07/2006 Version End Date: -



ID	Location	Details	
C	871m NE	Status: Historical Licence No: 24/67/10/0154 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: EAW Groundwater Point: BOREHOLE Data Type: Point Name: Archimica Limited Easting: 333760 Northing: 367420	Annual Volume (m ³): 119814 Max Daily Volume (m ³): 327.36 Original Application No: - Original Start Date: 01/04/2008 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 01/04/2008 Version End Date: -
D	993m E	Status: Historical Licence No: 24/67/10/0105 Details: General Farming & Domestic Direct Source: EAW Groundwater Point: BOREHOLE Data Type: Point Name: Church Farm Dairies Ltd Easting: 336300 Northing: 367800	Annual Volume (m ³): 14368 Max Daily Volume (m ³): 1991 Original Application No: - Original Start Date: 16/11/1983 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2003 Version End Date: -
D	993m E	Status: Historical Licence No: 24/67/10/0105 Details: Spray Irrigation - Direct Direct Source: EAW Groundwater Point: BOREHOLE Data Type: Point Name: Church Farm Dairies Ltd Easting: 336300 Northing: 367800	Annual Volume (m ³): 14368 Max Daily Volume (m ³): 1991 Original Application No: - Original Start Date: 16/11/1983 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2003 Version End Date: -
8	1359m N	Status: Historical Licence No: 24/67/10/0046 Details: General Farming & Domestic Direct Source: EAW Groundwater Point: BOREHOLE Data Type: Point Name: Jones Balers Ltd Easting: 332780 Northing: 368760	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 24/02/1967 Expiry Date: - Issue No: 100 Version Start Date: 06/06/1967 Version End Date: -
9	1373m NW	Status: Historical Licence No: 24/67/10/0022 Details: General Farming & Domestic Direct Source: EAW Groundwater Point: BOREHOLE Data Type: Point Name: H T Howe And Sons Easting: 334460 Northing: 369190	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 25/10/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1975 Version End Date: -



ID	Location	Details	
-	1409m E	Status: Historical Licence No: 24/67/10/0141 Details: Spray Irrigation - Direct Direct Source: EAW Groundwater Point: REACH B - B ON THE SEALAND MAIN DRAIN Data Type: Line Name: WT Banks & Co. (Farming) Ltd. Easting: 336830 Northing: 366870	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 01/08/2003 Expiry Date: 31/03/2014 Issue No: 1 Version Start Date: 01/08/2003 Version End Date: -
F	1430m SW	Status: Historical Licence No: 24/67/10/140 Details: Horticultural Watering Direct Source: EAW Groundwater Point: BOREHOLE AT HAWARDEN CASTLE FRUIT FARM Data Type: Point Name: Hawarden Castle Fruit Farm Easting: 332480 Northing: 365240	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 08/07/2003 Expiry Date: 31/03/2008 Issue No: 1 Version Start Date: 08/07/2003 Version End Date: -
F	1430m SW	Status: Historical Licence No: 24/67/10/0140 Details: Horticultural Watering Direct Source: EAW Groundwater Point: BOREHOLE AT HAWARDEN CASTLE FRUIT FARM Data Type: Point Name: Hawarden Castle Fruit Farm Easting: 332480 Northing: 365240	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 08/07/2003 Expiry Date: 31/03/2008 Issue No: 1 Version Start Date: 08/07/2003 Version End Date: -
10	1754m SE	Status: Historical Licence No: 24/67/10/0006 Details: General Farming & Domestic Direct Source: EAW Groundwater Point: BOREHOLE Data Type: Point Name: Well House Estates Ltd Easting: 336220 Northing: 364820	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 05/07/1966 Expiry Date: - Issue No: 100 Version Start Date: 05/07/1966 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m

12

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 98**



ID	Location	Details	
B	On site	Status: Historical Licence No: 24/67/10/0129 Details: Spray Irrigation - Direct Direct Source: EAW Surface Water Point: REACH A TO A AT SEALAND MAIN DRAIN Data Type: Line Name: Banks Easting: 333960 Northing: 367720	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/07/1998 Expiry Date: 31/07/2003 Issue No: 100 Version Start Date: 01/04/2001 Version End Date: -
B	On site	Status: Historical Licence No: 24/67/10/0141 Details: Spray Irrigation - Direct Direct Source: EAW Surface Water Point: REACH A-A ON THE SEALAND MAIN DRAIN Data Type: Line Name: WT Banks & Co (Farming) Ltd Easting: 333960 Northing: 367720	Annual Volume (m³): 104558 Max Daily Volume (m³): 1227.42 Original Application No: - Original Start Date: 01/08/2003 Expiry Date: 31/03/2014 Issue No: 2 Version Start Date: 19/07/2010 Version End Date: -
B	On site	Status: Historical Licence No: WA/067/0010/011 Details: Spray Irrigation - Direct Direct Source: EAW Surface Water Point: SEALAND MAIN DRAIN Data Type: Line Name: WT Banks & Co (Farming) Ltd Easting: 333955 Northing: 367720	Annual Volume (m³): 67962.7 Max Daily Volume (m³): 1227.42 Original Application No: - Original Start Date: 30/07/2014 Expiry Date: 31/03/2027 Issue No: 2 Version Start Date: 26/11/2014 Version End Date: -
B	On site	Status: Active Licence No: WA/067/0010/011 Details: Spray Irrigation - Direct - High Direct Source: - Point: - Data Type: Line Name: - Easting: 333955 Northing: 367720	Annual Volume (m³): 67,962.70 Max Daily Volume (m³): 2,727.60 Original Application No: - Original Start Date: 2014-11-26 00:00:00.0000000 Expiry Date: 2027-03-31 00:00:00.0000000 Issue No: - Version Start Date: - Version End Date: -
1	344m N	Status: Historical Licence No: 24/67/10/0103 Details: Spray Irrigation - Direct Direct Source: EAW Surface Water Point: SEALAND MAIN DRAIN POINT C. Data Type: Point Name: Jones Balers Ltd Easting: 335020 Northing: 368270	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 17/11/1987 Expiry Date: - Issue No: 100 Version Start Date: 27/04/1989 Version End Date: -



ID	Location	Details	
3	547m N	Status: Historical Licence No: 24/67/10/0102 Details: Spray Irrigation - Direct Direct Source: EAW Surface Water Point: WATERLOO DRAIN Data Type: Line Name: Williams Easting: 334930 Northing: 368470	Annual Volume (m ³): 12274 Max Daily Volume (m ³): 355 Original Application No: - Original Start Date: 17/09/1980 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2007 Version End Date: -
6	653m W	Status: Historical Licence No: 24/67/10/0103 Details: Spray Irrigation - Direct Direct Source: EAW Surface Water Point: SEALAND MAIN DRAIN POINT C Data Type: Point Name: Jones Balers Ltd Easting: 334300 Northing: 367970	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 17/11/1987 Expiry Date: - Issue No: 100 Version Start Date: 27/04/1989 Version End Date: -
7	949m NW	Status: Historical Licence No: 24/67/10/0103 Details: Spray Irrigation - Direct Direct Source: EAW Surface Water Point: MANOR DRAIN POINT B Data Type: Point Name: Jones Balers Ltd Easting: 334300 Northing: 368570	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 17/11/1987 Expiry Date: - Issue No: 100 Version Start Date: 27/04/1989 Version End Date: -
-	1405m E	Status: Historical Licence No: WA/067/0010/011 Details: Spray Irrigation - Direct Direct Source: EAW Surface Water Point: SEALAND MAIN DRAIN Data Type: Line Name: WT Banks & Co (Farming) Ltd Easting: 336826 Northing: 366870	Annual Volume (m ³): 67962.7 Max Daily Volume (m ³): 1227.42 Original Application No: - Original Start Date: 30/07/2014 Expiry Date: 31/03/2027 Issue No: 2 Version Start Date: 26/11/2014 Version End Date: -
-	1409m E	Status: Historical Licence No: 24/67/10/0129 Details: Spray Irrigation - Direct Direct Source: EAW Surface Water Point: REACH B TO B AT SEALAND MAIN DRAIN Data Type: Line Name: Banks Easting: 336830 Northing: 366870	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 31/07/1998 Expiry Date: 31/07/2003 Issue No: 100 Version Start Date: 01/04/2001 Version End Date: -



ID	Location	Details	
-	1409m E	Status: Historical Licence No: 24/67/10/0141 Details: Spray Irrigation - Direct Direct Source: EAW Surface Water Point: REACH B-B ON THE SEALAND MAIN DRAIN Data Type: Line Name: WT Banks & Co (Farming) Ltd Easting: 336830 Northing: 366870	Annual Volume (m ³): 104558 Max Daily Volume (m ³): 1227.42 Original Application No: - Original Start Date: 01/08/2003 Expiry Date: 31/03/2014 Issue No: 2 Version Start Date: 19/07/2010 Version End Date: -
11	1782m N	Status: Historical Licence No: 24/67/10/0103 Details: Spray Irrigation - Direct Direct Source: EAW Surface Water Point: MANOR DRAIN POINT B Data Type: Point Name: Jones Balers Ltd Easting: 333370 Northing: 369050	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 17/11/1987 Expiry Date: - Issue No: 100 Version Start Date: 27/04/1989 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	2
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Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination. Features are displayed on the Abstractions and Source Protection Zones map on **page 98**

ID	Location	Type	Description
A	On site	3	Total catchment
A	On site	3	Total catchment

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



5.10 Source Protection Zones (confined aquifer)

Records within 500m

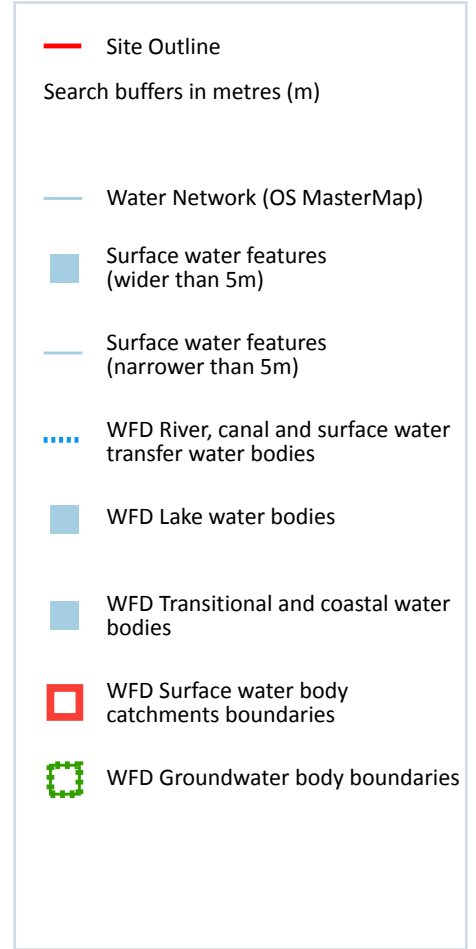
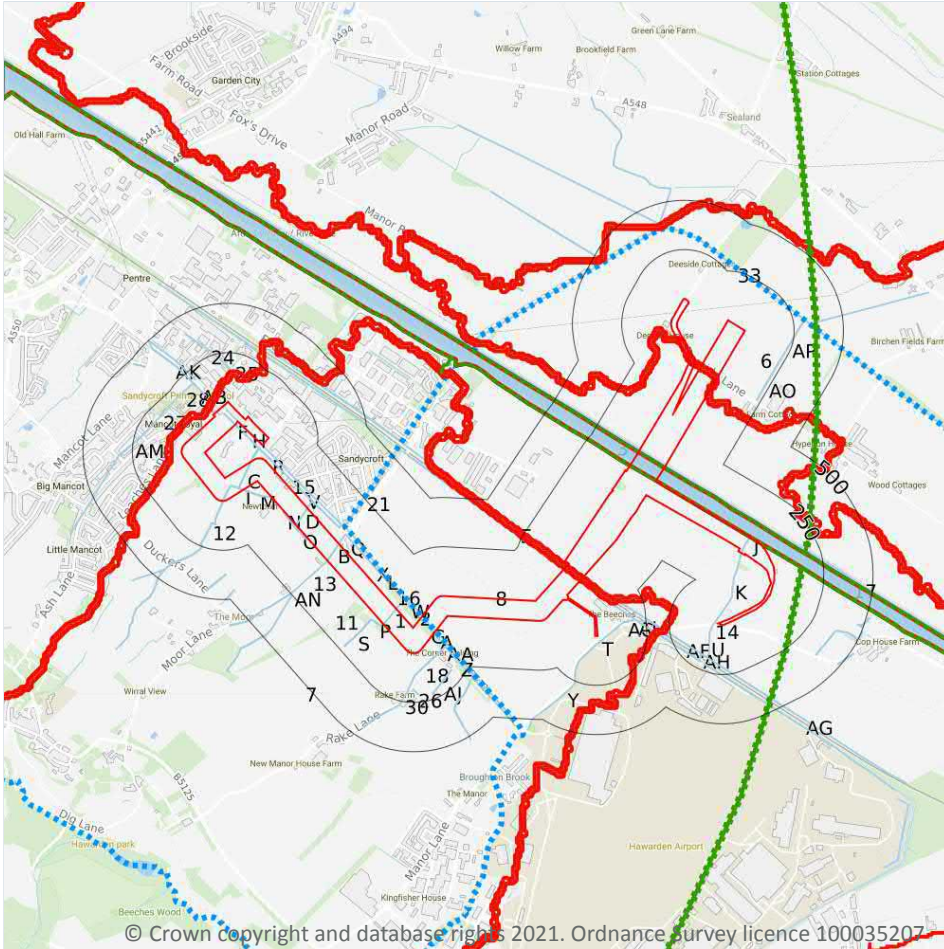
0

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



6.1 Water Network (OS MasterMap)

Records within 250m **101**

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 106**

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

ID	Location	Type of water feature	Ground level	Permanence	Name
2	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Broughton Brook
3	On site	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Dyfrdwy
12	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)	Broughton Brook
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)	-
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	On site	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
G	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Broughton Brook
H	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
I	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
I	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	On site	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
K	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
13	3m SW	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
N	5m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	7m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	7m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
O	9m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	11m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	14m SW	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
14	19m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
H	21m SW	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
R	21m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	22m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	26m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
P	26m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
15	28m NE	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
T	29m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
U	33m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
T	34m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
V	36m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
V	40m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
V	42m NE	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
T	42m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
V	45m NE	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
Q	47m NE	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
Q	56m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
W	57m NE	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
W	57m NE	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
16	57m NE	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
Q	57m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Q	57m NE	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
X	57m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
S	59m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
17	60m NE	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Dyfrdwy
T	61m E	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
Y	61m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	72m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Broughton Brook
18	72m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Q	74m NE	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
Q	77m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Broughton Brook
Q	80m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Broughton Brook
Q	80m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Broughton Brook
Q	80m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
21	81m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Broughton Brook
Z	87m SE	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
AA	87m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AA	88m SE	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
AA	89m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Broughton Brook



ID	Location	Type of water feature	Ground level	Permanence	Name
AB	99m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AA	103m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Broughton Brook
AC	108m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
Z	111m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Broughton Brook
AC	112m NE	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
24	168m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AF	176m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AG	177m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AH	177m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AH	178m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
25	179m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
26	181m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AH	184m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
AJ	184m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
27	186m NW	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
28	187m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AB	188m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AK	188m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AK	191m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AL	195m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AM	197m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
30	200m S	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
AH	205m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AL	206m E	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
AF	210m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AH	210m SW	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
AH	212m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AL	212m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AL	212m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AG	216m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AN	221m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AL	223m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
33	227m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AO	229m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AP	230m SE	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

39

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 106**

This data is sourced from the Ordnance Survey.



6.3 WFD Surface water body catchments

Records on site	3
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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 106**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
6	On site	River WB catchment	Finchetts Gutter	GB111067056930	Dee Estuary	Dee
7	On site	River WB catchment	Sandycroft Drain	GB111067052160	Dee Estuary	Dee
8	On site	Coastal catchment	Not part of a river WB catchment	166	Dee Estuary	Dee

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

6.4 WFD Surface water bodies

Records identified	3
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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.

Features are displayed on the Hydrology map on **page 106**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
9	On site	River	Sandycroft Drain	GB111067052160	Moderate	Good	Moderate	2016
10	On site	Transitional	DEE (N. WALES)	GB531106708200	Moderate	Fail	Moderate	2016
32	228m NE	River	Finchetts Gutter	GB111067056930	Poor	Good	Poor	2016

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.

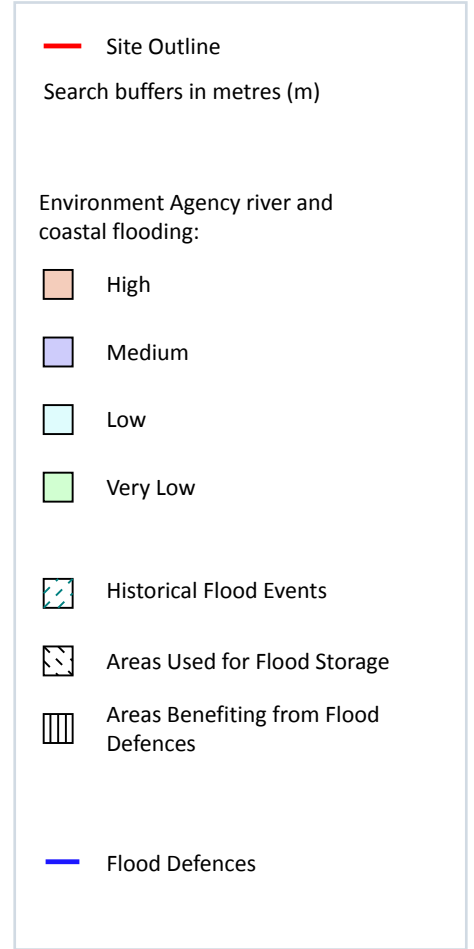
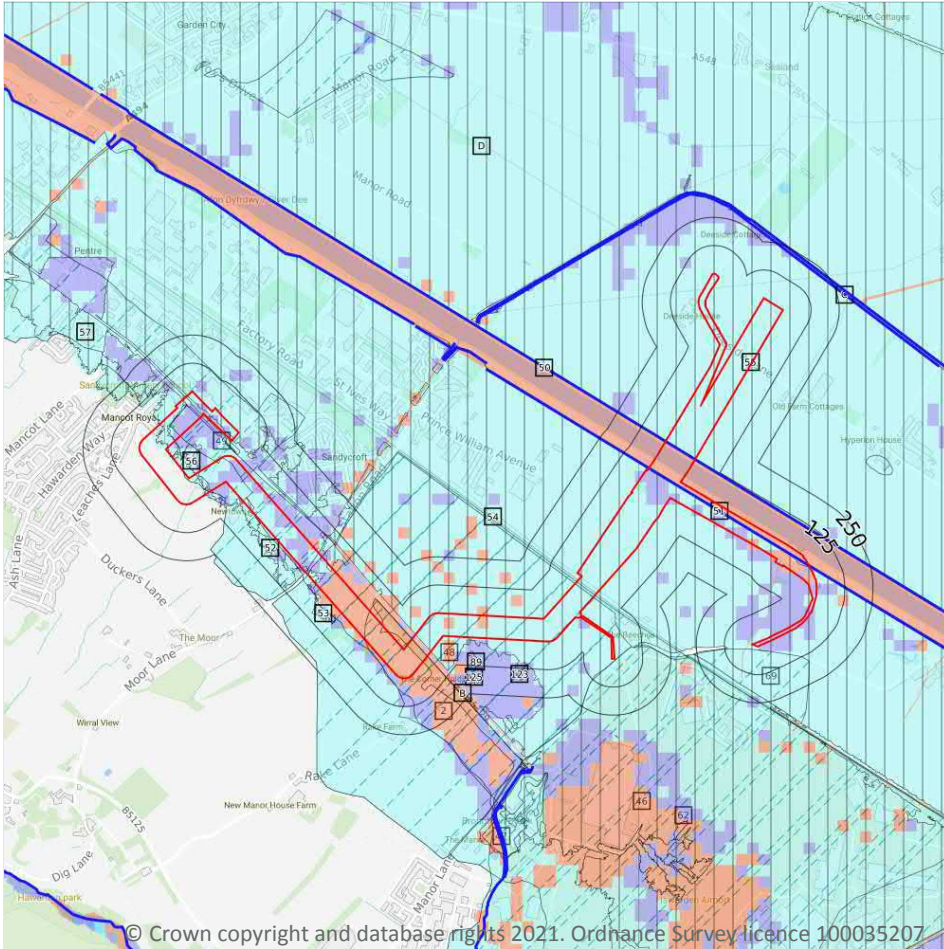
Features are displayed on the Hydrology map on **page 106**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
11	On site	Dee Carboniferous Coal Measures	GB41102G204800	Poor	Poor	Good	2016

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



7 River and coastal flooding



7.1 Risk of Flooding from Rivers and Sea (RoFRaS)

Records within 50m

69

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition; 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).

Features are displayed on the River and coastal flooding map on **page 117**

Distance	RoFRaS flood risk
On site	High
0 - 50m	High



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

7.2 Historical Flood Events

Records within 250m

7

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.

Features are displayed on the River and coastal flooding map on **page 117**

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
2	On site	Broughton Brook 25th June 2007 01	2007-06-25 2007-06-25	Main river	Channel capacity exceeded (no raised defences)	Fluvial
46	On site	Sandycroft / Hawarden Airport 1964 01	1964-01-01 1964-01-01	Main river	Channel capacity exceeded (no raised defences)	Fluvial
47	On site	Broughton Brook 15th June 2007 01	2007-06-15 2007-06-15	Main river	Channel capacity exceeded (no raised defences)	Fluvial
48	On site	Sandycroft Drain September 1976	1976-09-26 1976-09-27	Main river	Channel capacity exceeded (no raised defences)	Fluvial
49	On site	Queensferry Drain September 1976	1976-09-26 1976-09-27	Main river	Channel capacity exceeded (no raised defences)	Fluvial
62	6m SE	Broughton Brook September 1976	1976-09-26 1976-09-27	Main river	Channel capacity exceeded (no raised defences)	Fluvial
69	15m S	Beeches Drain September 1976 001	1976-09-26 1976-09-27	Main river	Channel capacity exceeded (no raised defences)	Fluvial

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

7.3 Flood Defences

Records within 250m

4

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.

Features are displayed on the River and coastal flooding map on **page 117**



ID	Location	Update
50	On site	25/05/2021
51	On site	25/05/2021
C	220m NE	25/05/2021
C	235m NE	25/05/2021

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

7.4 Areas Benefiting from Flood Defences

Records within 250m	12
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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.

Features are displayed on the River and coastal flooding map on **page 117**

ID	Location	
52	On site	Area benefiting from flood defences
53	On site	Area benefiting from flood defences
54	On site	Area benefiting from flood defences
55	On site	Area benefiting from flood defences
56	On site	Area benefiting from flood defences
57	On site	Area benefiting from flood defences
A	On site	Area benefiting from flood defences
89	60m S	Area benefiting from flood defences
123	129m S	Area benefiting from flood defences
125	133m S	Area benefiting from flood defences
B	148m SE	Area benefiting from flood defences
D	234m NE	Area benefiting from flood defences

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



7.5 Flood Storage Areas

Records within 250m

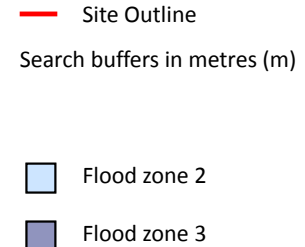
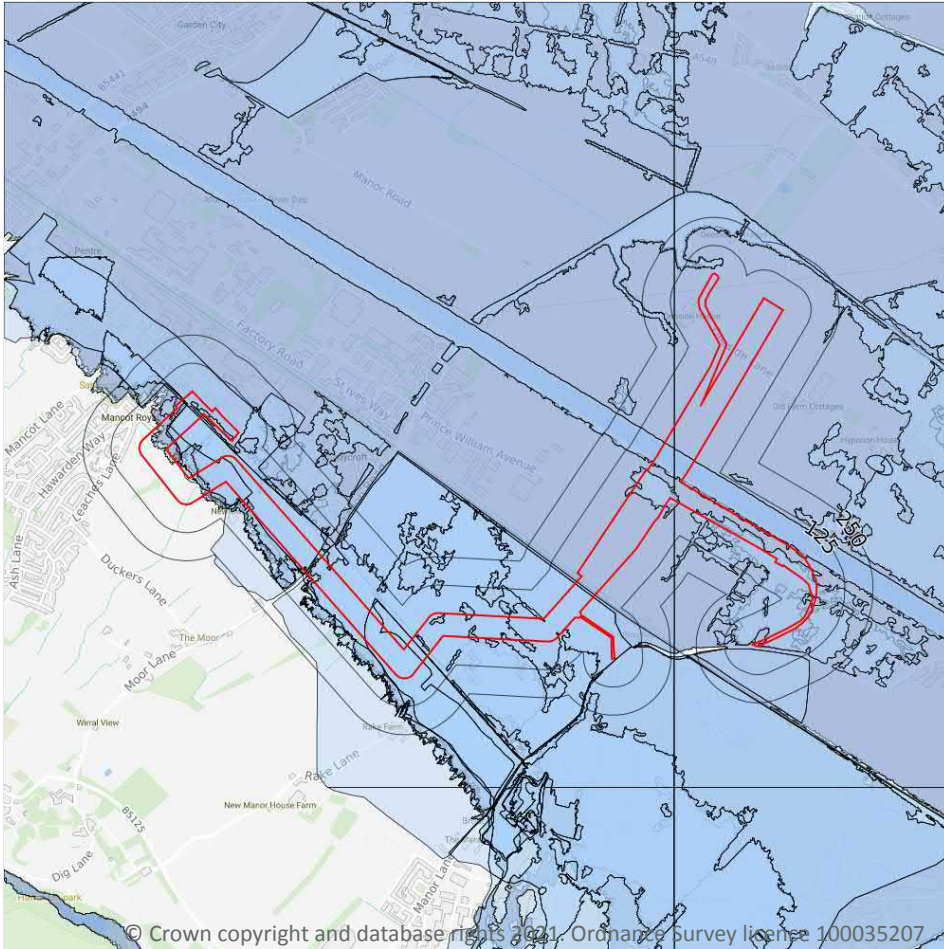
0

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

1

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.

Features are displayed on the River and coastal flooding map on **page 117**

Location	Type
On site	Zone 2 - (Fluvial /Tidal Models)

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



7.7 Flood Zone 3

Records within 50m

1

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.

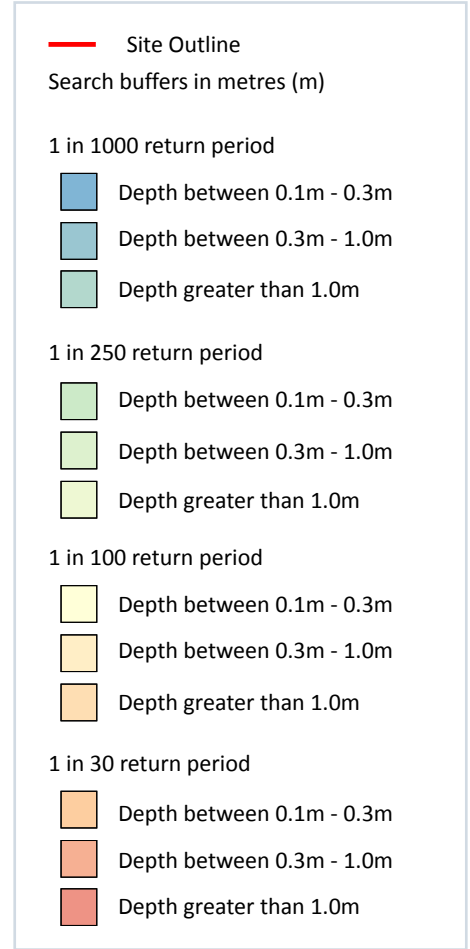
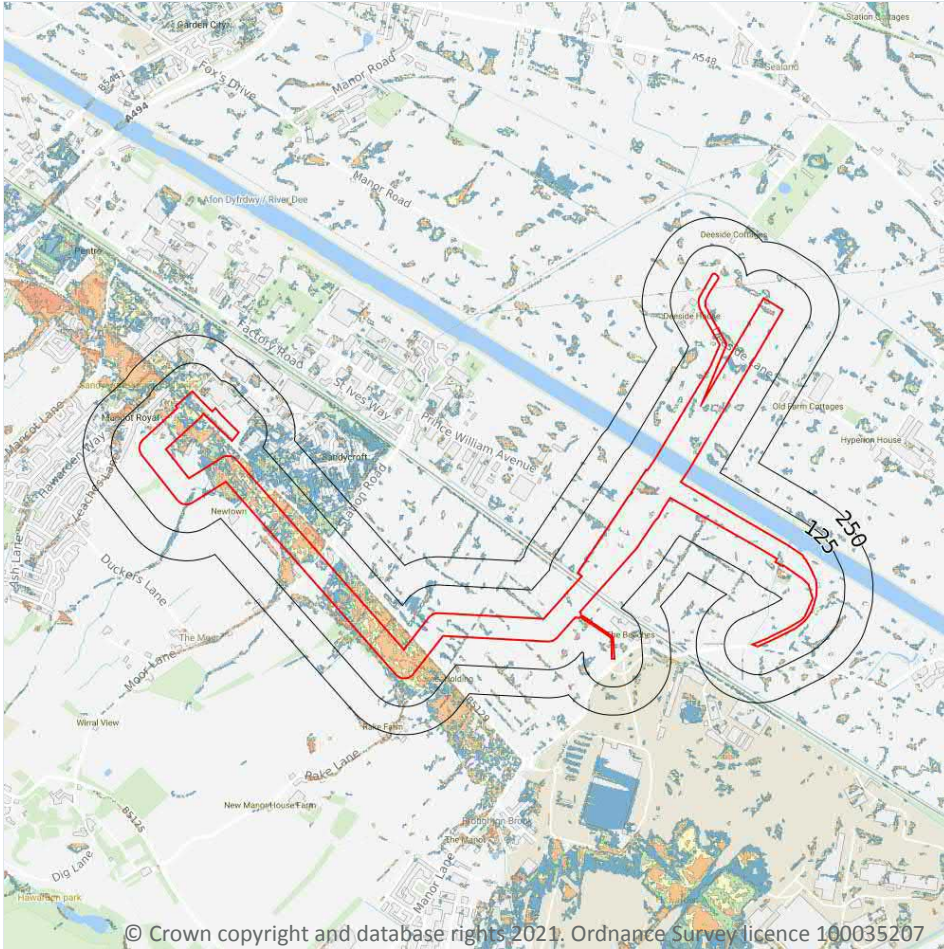
Features are displayed on the River and coastal flooding map on **page 117**

Location	Type
On site	Zone 3 - (Fluvial Models)

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



8 Surface water flooding



8.1 Surface water flooding

Highest risk on site

1 in 30 year, 0.3m - 1.0m

Highest risk within 50m

1 in 30 year, 0.3m - 1.0m

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 123**

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.

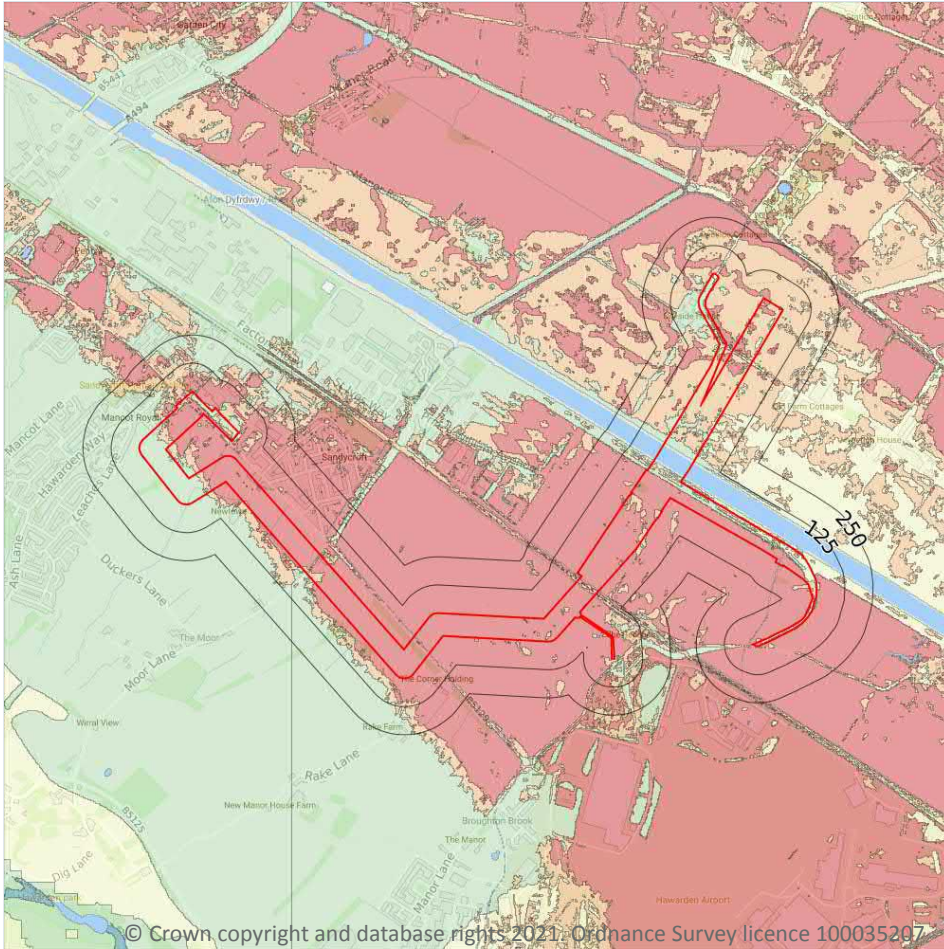
The table below shows the maximum flood depths for a range of return periods for the site.

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

This data is sourced from Ambiental Risk Analytics.



9 Groundwater flooding



9.1 Groundwater flooding

Highest risk on site

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 125**

This data is sourced from Ambiental Risk Analytics.