

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
14	1.1	Historical industrial land uses	0	0	33	98	-
19	1.2	Historical tanks	0	0	0	10	-
20	1.3	Historical energy features	0	0	7	12	-
21	1.4	Historical petrol stations	0	0	0	0	-
21	1.5	Historical garages	0	0	0	3	-
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	Historical industrial land uses	0	0	37	132	-
30	2.2	Historical tanks	0	0	0	12	-
30	2.3	Historical energy features	0	0	14	29	-
32	2.4	Historical petrol stations	0	0	0	0	-
32	2.5	Historical garages	0	0	0	6	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
34	3.1	Active or recent landfill	0	0	0	0	-
34	3.2	Historical landfill (BGS records)	0	0	0	0	-
35	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
35	3.4	Historical landfill (EA/NRW records)	0	0	0	1	-
35	3.5	Historical waste sites	0	0	0	2	-
36	3.6	Licensed waste sites	0	0	0	5	-
38	3.7	Waste exemptions	0	0	1	10	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
40	4.1	Recent industrial land uses	0	0	7	-	-
41	4.2	Current or recent petrol stations	0	0	0	0	-
41	4.3	Electricity cables	0	0	0	0	-
41	4.4	Gas pipelines	0	0	0	0	-
42	4.5	Sites determined as Contaminated Land	0	0	0	0	-



42	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
42	4.7	Regulated explosive sites	0	0	0	0	-
42	4.8	<u>Hazardous substance storage/usage</u>	0	0	1	0	-
43	4.9	<u>Historical licensed industrial activities (IPC)</u>	0	0	5	0	-
43	4.10	<u>Licensed industrial activities (Part A(1))</u>	0	0	6	2	-
45	4.11	<u>Licensed pollutant release (Part A(2)/B)</u>	0	0	0	1	-
45	4.12	Radioactive Substance Authorisations	0	0	0	0	-
46	4.13	<u>Licensed Discharges to controlled waters</u>	0	0	5	7	-
48	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
48	4.15	Pollutant release to public sewer	0	0	0	0	-
48	4.16	<u>List 1 Dangerous Substances</u>	0	0	1	2	-
48	4.17	List 2 Dangerous Substances	0	0	0	0	-
49	4.18	<u>Pollution Incidents (EA/NRW)</u>	0	0	1	2	-
49	4.19	Pollution inventory substances	0	0	0	0	-
49	4.20	Pollution inventory waste transfers	0	0	0	0	-
50	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
51	5.1	<u>Superficial aquifer</u>	Identified (within 500m)				
53	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
55	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
56	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
56	5.5	Groundwater vulnerability- local information	None (within 0m)				
57	5.6	<u>Groundwater abstractions</u>	0	0	0	0	2
58	5.7	<u>Surface water abstractions</u>	0	0	0	0	4
59	5.8	<u>Potable abstractions</u>	0	0	0	0	2
60	5.9	<u>Source Protection Zones</u>	0	0	1	0	-
60	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
61	6.1	<u>Water Network (OS MasterMap)</u>	1	1	6	-	-



62	6.2	<u>Surface water features</u>	0	0	3	-	-
62	6.3	<u>WFD Surface water body catchments</u>	1	-	-	-	-
63	6.4	<u>WFD Surface water bodies</u>	1	0	0	-	-
63	6.5	WFD Groundwater bodies	0	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
64	7.1	<u>Risk of Flooding from Rivers and Sea (RoFRaS)</u>	High (within 50m)				
65	7.2	Historical Flood Events	0	0	0	-	-
65	7.3	Flood Defences	0	0	0	-	-
65	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
65	7.5	Flood Storage Areas	0	0	0	-	-
66	7.6	<u>Flood Zone 2</u>	Identified (within 50m)				
67	7.7	<u>Flood Zone 3</u>	Identified (within 50m)				
Page	Section	Surface water flooding					
68	8.1	<u>Surface water flooding</u>	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	Groundwater flooding					
70	9.1	<u>Groundwater flooding</u>	Low (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
71	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
72	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
72	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
72	10.4	Special Protection Areas (SPA)	0	0	0	0	0
72	10.5	National Nature Reserves (NNR)	0	0	0	0	0
73	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
73	10.7	<u>Designated Ancient Woodland</u>	0	0	0	2	0
73	10.8	Biosphere Reserves	0	0	0	0	0
73	10.9	Forest Parks	0	0	0	0	0
74	10.10	Marine Conservation Zones	0	0	0	0	0
74	10.11	<u>Green Belt</u>	1	0	0	1	2
74	10.12	Proposed Ramsar sites	0	0	0	0	0



74	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
75	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
75	10.15	Nitrate Sensitive Areas	0	0	0	0	0
75	10.16	<u>Nitrate Vulnerable Zones</u>	1	0	0	0	1
76	10.17	<u>SSSI Impact Risk Zones</u>	1	-	-	-	-
77	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
78	11.1	World Heritage Sites	0	0	0	-	-
79	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
79	11.3	National Parks	0	0	0	-	-
79	11.4	<u>Listed Buildings</u>	0	0	2	-	-
80	11.5	Conservation Areas	0	0	0	-	-
80	11.6	Scheduled Ancient Monuments	0	0	0	-	-
80	11.7	Registered Parks and Gardens	0	0	0	-	-

Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
81	12.1	<u>Agricultural Land Classification</u>	Grade 3b (within 250m)				
82	12.2	Open Access Land	0	0	0	-	-
82	12.3	<u>Tree Felling Licences</u>	0	1	3	-	-
83	12.4	Environmental Stewardship Schemes	0	0	0	-	-
83	12.5	Countryside Stewardship Schemes	0	0	0	-	-

Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
84	13.1	<u>Priority Habitat Inventory</u>	3	1	11	-	-
85	13.2	Habitat Networks	0	0	0	-	-
85	13.3	Open Mosaic Habitat	0	0	0	-	-
86	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
87	14.1	<u>10k Availability</u>	Identified (within 500m)				
88	14.2	Artificial and made ground (10k)	0	0	0	0	-
89	14.3	<u>Superficial geology (10k)</u>	2	0	0	0	-

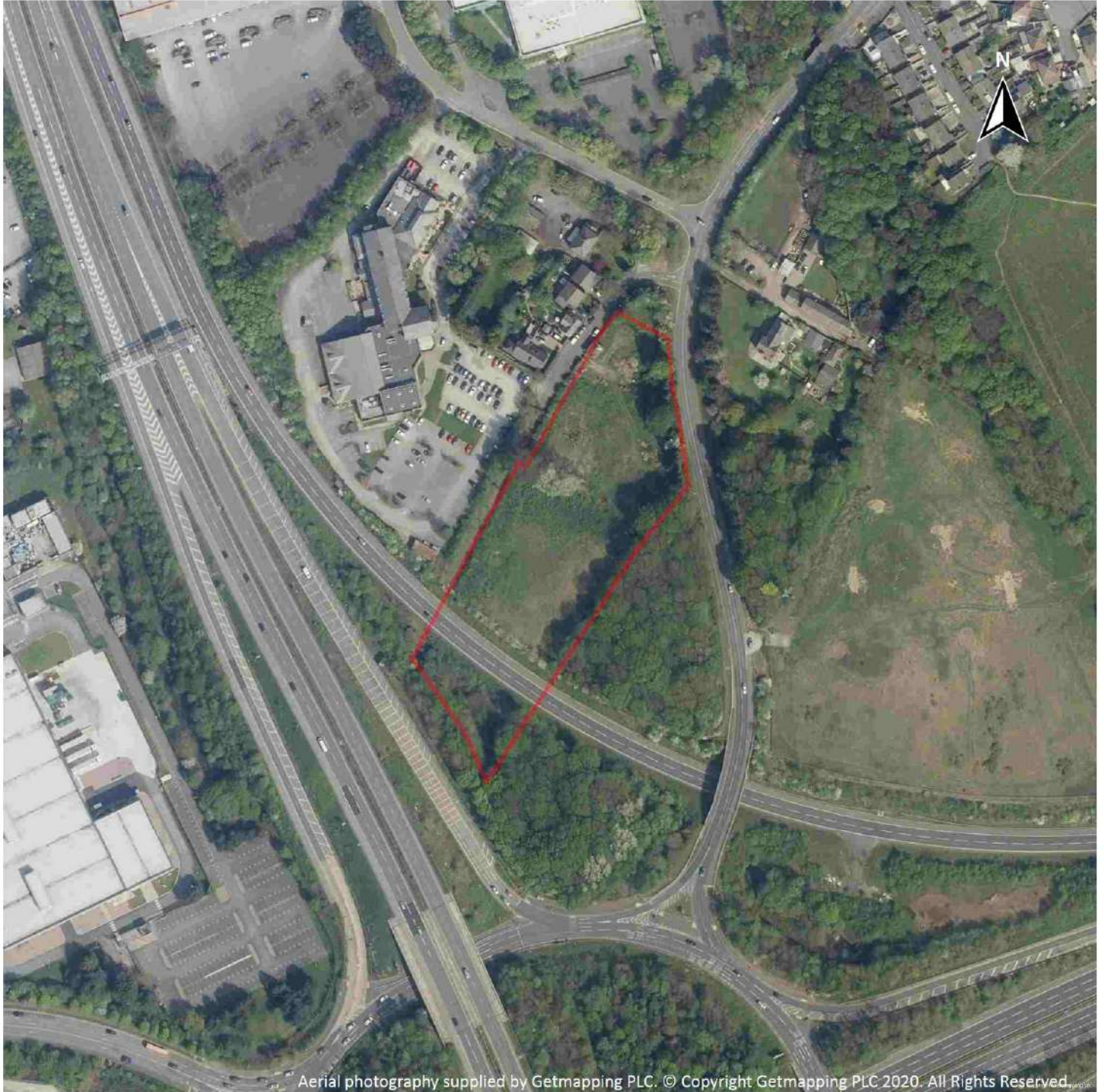


90	14.4	Landslip (10k)	0	0	0	0	-
91	14.5	<u>Bedrock geology (10k)</u>	2	1	6	10	-
93	14.6	<u>Bedrock faults and other linear features (10k)</u>	0	1	1	12	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
94	15.1	<u>50k Availability</u>	Identified (within 500m)				
95	15.2	Artificial and made ground (50k)	0	0	0	0	-
95	15.3	Artificial ground permeability (50k)	0	0	-	-	-
96	15.4	<u>Superficial geology (50k)</u>	2	0	0	0	-
97	15.5	<u>Superficial permeability (50k)</u>	Identified (within 50m)				
97	15.6	Landslip (50k)	0	0	0	0	-
97	15.7	Landslip permeability (50k)	None (within 50m)				
98	15.8	<u>Bedrock geology (50k)</u>	2	1	5	14	-
100	15.9	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
100	15.10	<u>Bedrock faults and other linear features (50k)</u>	0	1	1	16	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
102	16.1	<u>BGS Boreholes</u>	1	5	53	-	-
Page	Section	Natural ground subsidence					
106	17.1	<u>Shrink swell clays</u>	Very low (within 50m)				
107	17.2	<u>Running sands</u>	Low (within 50m)				
109	17.3	<u>Compressible deposits</u>	Moderate (within 50m)				
111	17.4	<u>Collapsible deposits</u>	Very low (within 50m)				
112	17.5	<u>Landslides</u>	Low (within 50m)				
114	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
116	18.1	Natural cavities	0	0	0	0	-
117	18.2	<u>BritPits</u>	0	0	0	9	-
119	18.3	<u>Surface ground workings</u>	0	0	26	-	-
120	18.4	<u>Underground workings</u>	0	0	4	37	16
122	18.5	Historical Mineral Planning Areas	0	0	0	0	-



122	18.6	<u>Non-coal mining</u>	0	1	0	0	2
123	18.7	Mining cavities	0	0	0	0	0
123	18.8	JPB mining areas	None (within 0m)				
123	18.9	<u>Coal mining</u>	Identified (within 0m)				
124	18.10	Brine areas	None (within 0m)				
124	18.11	Gypsum areas	None (within 0m)				
124	18.12	Tin mining	None (within 0m)				
124	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
125	19.1	<u>Radon</u>	Less than 1% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
126	20.1	<u>BGS Estimated Background Soil Chemistry</u>	3	3	-	-	-
126	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
127	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
128	21.1	Underground railways (London)	0	0	0	-	-
128	21.2	Underground railways (Non-London)	0	0	0	-	-
129	21.3	Railway tunnels	0	0	0	-	-
129	21.4	<u>Historical railway and tunnel features</u>	0	0	2	-	-
129	21.5	Royal Mail tunnels	0	0	0	-	-
129	21.6	Historical railways	0	0	0	-	-
130	21.7	Railways	0	0	0	-	-
130	21.8	Crossrail 1	0	0	0	0	-
130	21.9	Crossrail 2	0	0	0	0	-
130	21.10	HS2	0	0	0	0	-

Recent aerial photograph



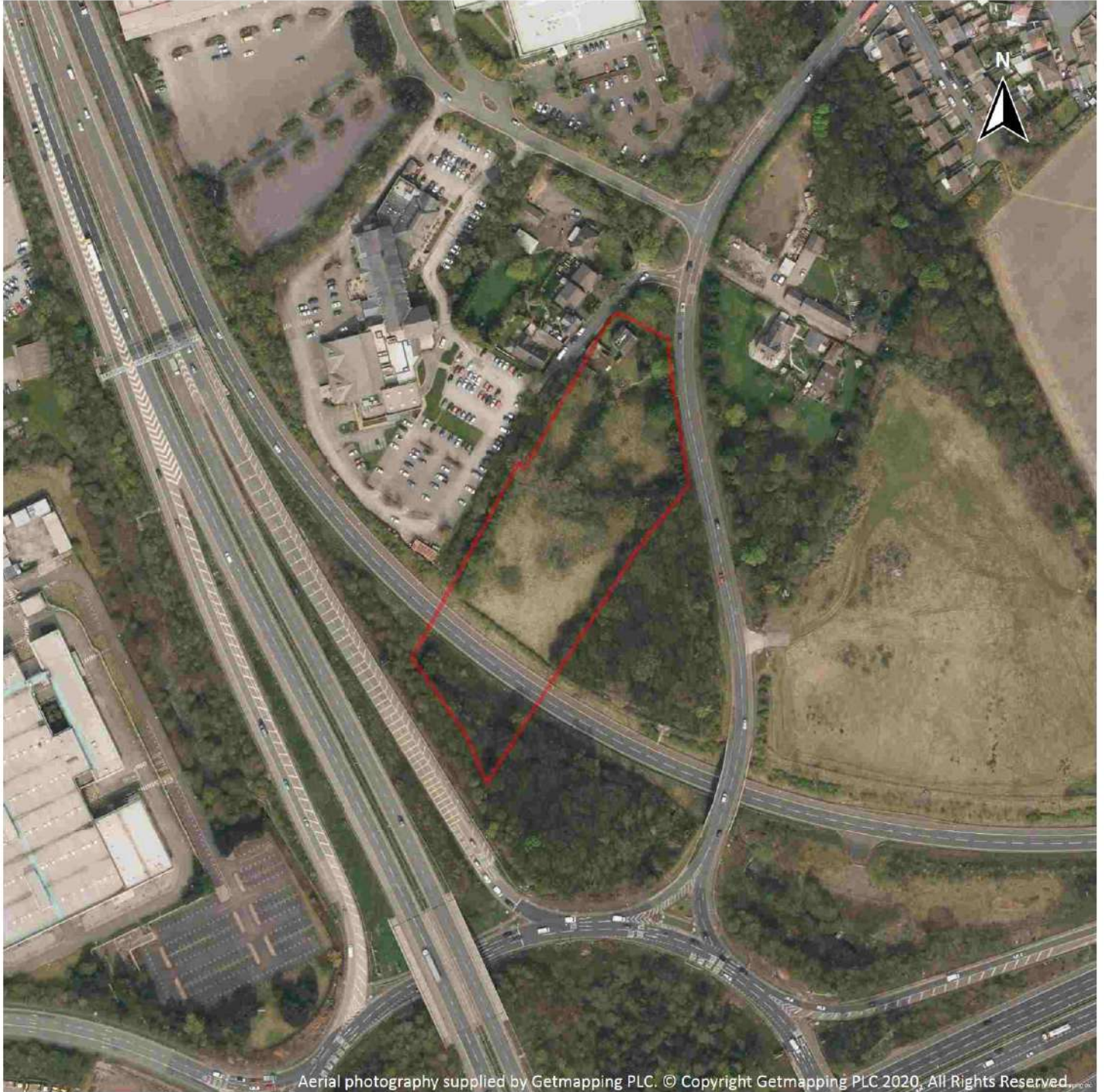
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Capture Date: 22/04/2019

Site Area: 1.31ha



Recent site history - 2016 aerial photograph



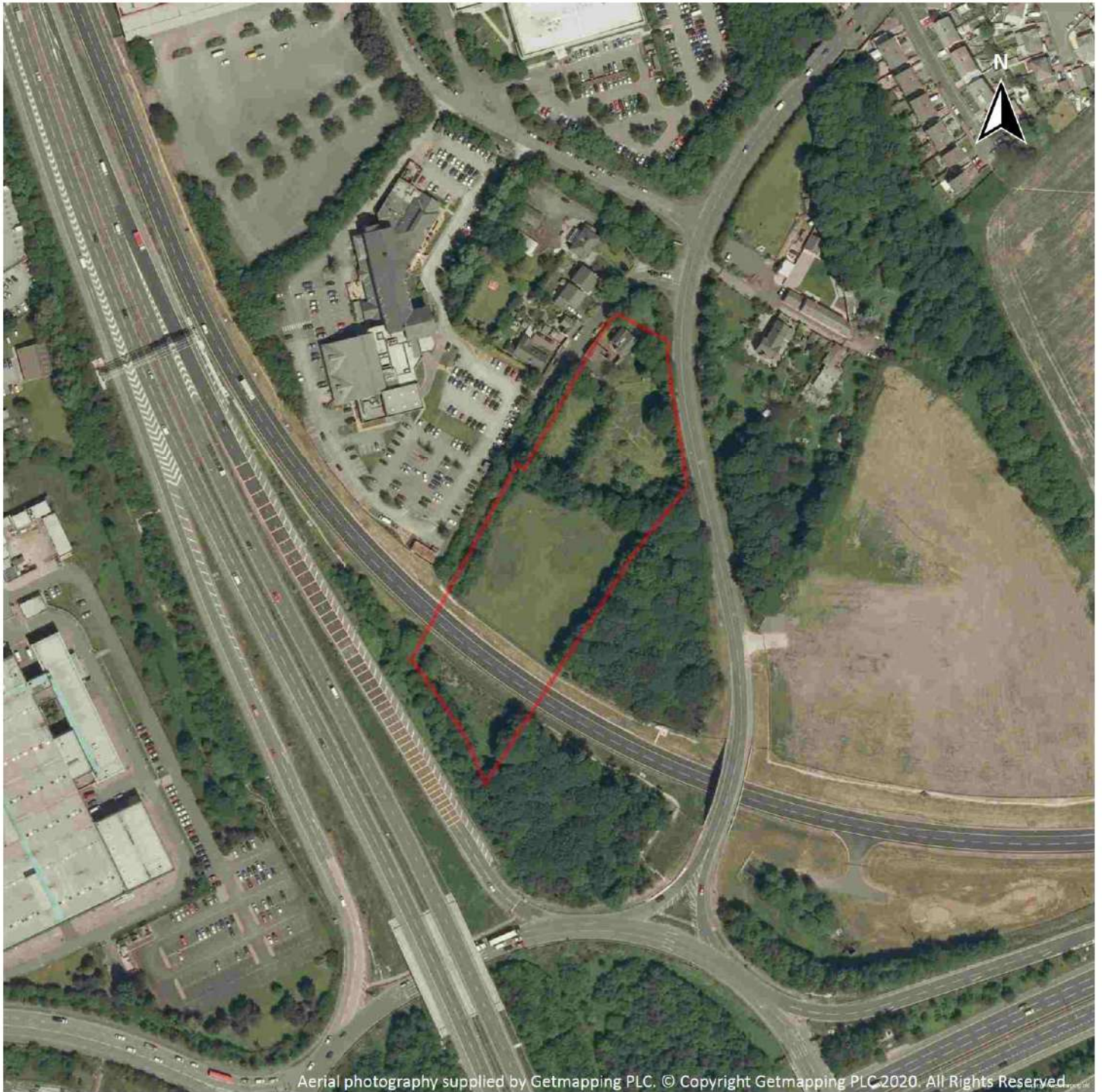
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Capture Date: 21/04/2016

Site Area: 1.31ha



Recent site history - 2009 aerial photograph

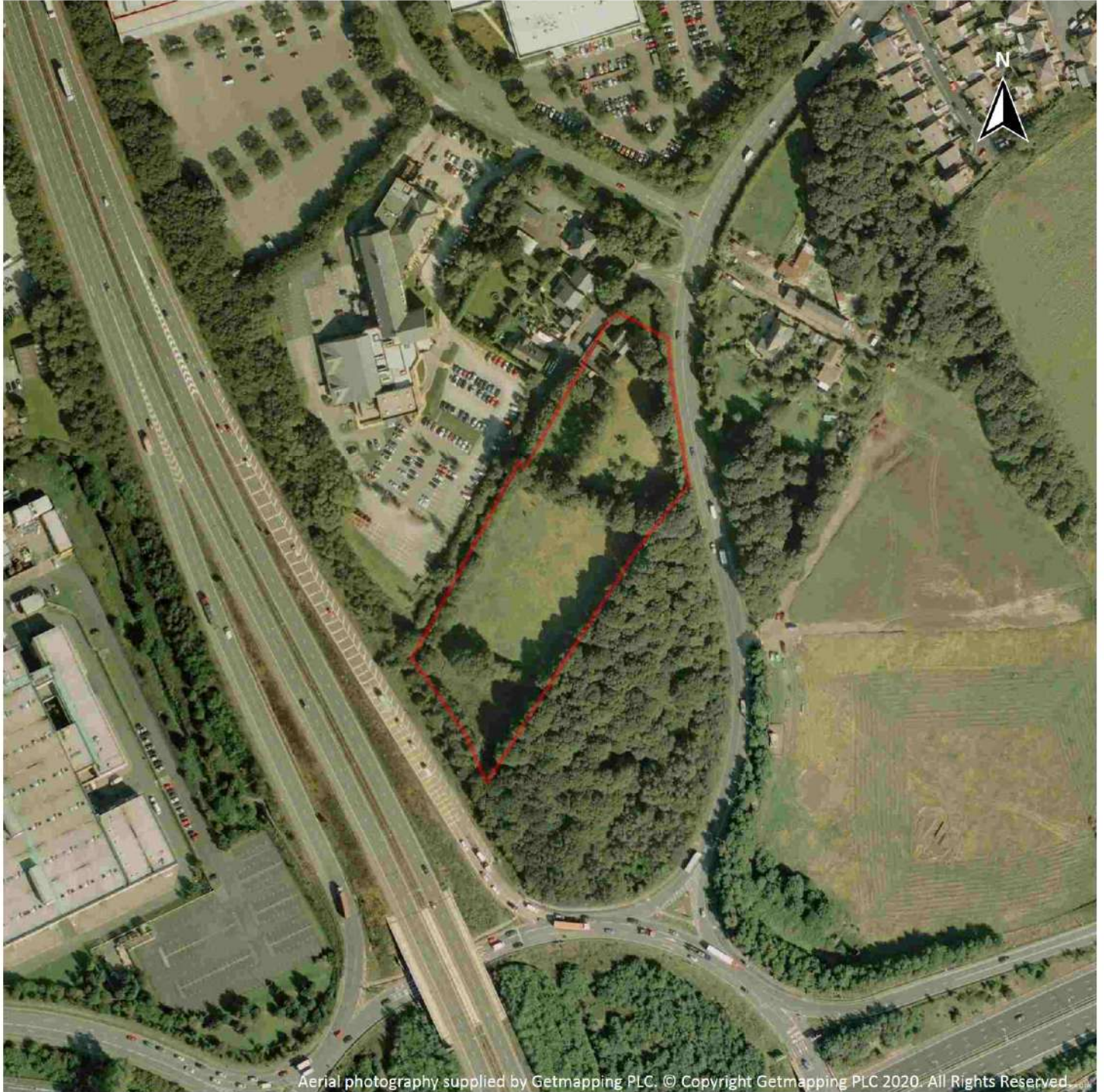


Capture Date: 24/06/2009

Site Area: 1.31ha



Recent site history - 2005 aerial photograph



Capture Date: 02/09/2005

Site Area: 1.31ha



Recent site history - 2000 aerial photograph



Capture Date: 21/07/2000

Site Area: 1.31ha



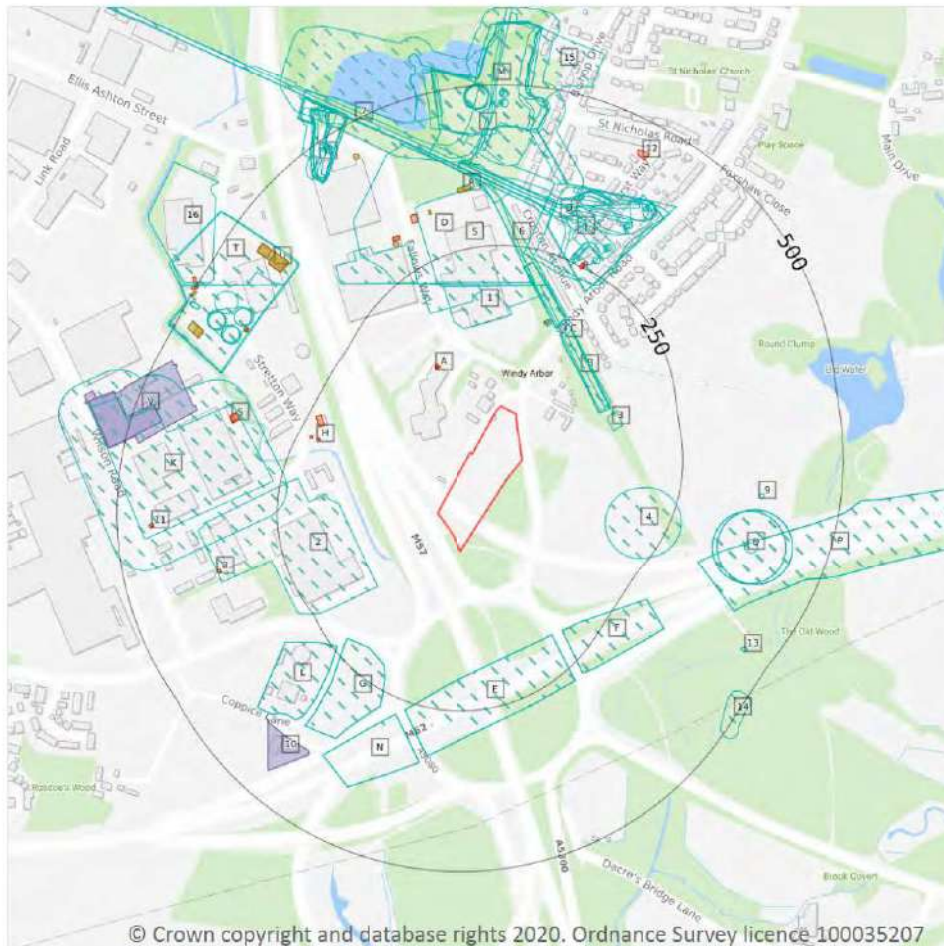
OS MasterMap site plan



Site Area: 1.31ha



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

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

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

ID	Location	Land use	Dates present	Group ID
B	116m NE	Cuttings	1947 - 1950	889421



ID	Location	Land use	Dates present	Group ID
B	117m NE	Cuttings	1925	952881
C	119m NE	Cuttings	1938	957884
B	127m NE	Cuttings	1989	906359
1	132m N	Unspecified Works	1989	934284
2	134m SW	Unspecified Works	1989	938212
3	141m E	Cuttings	1989	795653
C	144m NE	Electric Substation	1975	834465
C	146m NE	Cuttings	1950	866420
C	148m NE	Cuttings	1947	888216
C	148m NE	Cuttings	1925	949249
C	154m NE	Cuttings	1989	936544
4	154m SE	Unspecified Pits	1891 - 1906	901505
D	169m N	Unspecified Works	1975	976939
E	180m SE	Cuttings	1989	866992
E	180m SE	Cuttings	1975	970795
5	193m N	Unspecified Works	1990	964460
6	196m N	Railway Sidings	1955	888193
F	203m SE	Cuttings	1989	883205
F	203m SE	Cuttings	1975	910805
G	208m SW	Nursery	1975	913666
G	208m SW	Nursery	1989	924721
I	219m NE	Disused Colliery	1925	879683
I	219m NE	Disused Colliery	1947	956965
J	224m NE	Old Colliery	1891 - 1906	943828
D	232m NW	Unspecified Warehouse	1990	807173
J	232m NE	Colliery	1851	798249
K	238m W	Unspecified Works	1975	945342
L	244m SW	Unspecified Depot	1989	925297



ID	Location	Land use	Dates present	Group ID
L	244m SW	Unspecified Depot	1975	925987
J	245m NE	Unspecified Heaps	1891	831274
M	248m NE	Railway Sidings	1851	959646
J	250m NE	Unspecified Ground Workings	1925	948987
J	254m NE	Unspecified Ground Workings	1938	865500
K	261m W	Unspecified Works	1989	934148
J	263m NE	Coal Pit	1851	808447
J	265m NE	Unspecified Disused Shafts	1966	835392
N	274m S	Cuttings	1975	950437
N	274m S	Cuttings	1989	975788
J	277m NE	Unspecified Ground Workings	1906	874058
J	288m NE	Unspecified Old Shafts	1925 - 1947	875578
J	291m NE	Unspecified Disused Shafts	1966	835391
J	291m NE	Unspecified Old Shaft	1955	806146
O	297m NE	Railway Sidings	1925	982477
I	306m N	Mineral Railway Sidings	1891	834013
I	306m N	Colliery	1851 - 1891	873412
O	307m N	Railway Sidings	1938	880766
O	308m N	Railway Sidings	1947	879950
7	309m N	Railway Sidings	1906	936496
J	313m NE	Unspecified Heap	1891	867572
P	317m SE	Cuttings	1975	883734
P	317m SE	Cuttings	1989	910377
J	320m NE	Unspecified Ground Workings	1906	971379
Q	322m E	Unspecified Pits	1947	925299
Q	322m E	Unspecified Pits	1925	944492
J	324m NE	Unspecified Old Shaft	1955	806148
Q	328m E	Unspecified Pits	1950	926775



ID	Location	Land use	Dates present	Group ID
Q	328m E	Unspecified Pits	1967	983306
J	329m NE	Coal Pit	1851	808448
J	333m NE	Unspecified Old Shafts	1925 - 1947	940194
J	333m NE	Unspecified Heap	1966	917620
J	335m NE	Unspecified Old Shaft	1955	806147
M	336m N	Disused Colliery	1955	946509
J	337m NE	Unspecified Disused Shafts	1966	835393
R	338m N	Unspecified Tanks	1975	815134
J	339m N	Unspecified Ground Workings	1947 - 1955	918600
J	342m N	Unspecified Ground Workings	1925	961857
J	345m N	Unspecified Heap	1938	892612
J	351m NE	Unspecified Heap	1891	865998
J	351m N	Magazine	1891	827279
I	358m N	Disused Colliery	1906	921785
J	363m NE	Unspecified Heap	1955	886581
Q	371m E	Unspecified Pits	1938	920179
9	373m E	Sandstone Delf	1851	812656
J	374m NE	Unspecified Old Shafts	1947	951254
J	374m NE	Unspecified Old Shafts	1925	971251
J	375m NE	Unspecified Ground Workings	1925	920783
J	378m NE	Unspecified Disused Shafts	1966	835394
J	378m NE	Unspecified Old Shaft	1955	806152
T	382m NW	Sewage Works	1955	959491
T	383m NW	Sewage Works	1950	870370
T	383m NW	Sewage Works	1925 - 1947	966970
T	397m NW	Unspecified Tank	1947 - 1950	915977
T	399m NW	Unspecified Tank	1925	988346
T	399m NW	Unspecified Tanks	1938	815135



ID	Location	Land use	Dates present	Group ID
T	400m NW	Unspecified Tank	1950	879671
T	403m NW	Unspecified Tank	1947	853971
T	403m NW	Unspecified Tank	1925	909267
I	411m N	Unspecified Disused Mine	1966	810940
I	421m N	Disused Colliery	1938	947601
I	421m N	Disused Colliery	1938	956293
T	429m NW	Unspecified Tank	1947 - 1950	857500
I	430m N	Unspecified Ground Workings	1891	799829
T	430m NW	Unspecified Tank	1950	948197
T	433m NW	Unspecified Tank	1947	849069
T	433m NW	Unspecified Tank	1925	899371
W	444m NW	Unspecified Ground Workings	1947	920125
W	444m NW	Old Colliery	1891 - 1925	930422
W	444m NW	Unspecified Ground Workings	1925	954182
W	444m NW	Old Colliery	1947	954771
W	444m NW	Old Colliery	1955	968166
W	444m NW	Unspecified Ground Workings	1906	984867
W	445m NW	Unspecified Disused Mine	1966	810942
W	445m NW	Old Colliery	1938	857053
W	445m NW	Unspecified Ground Workings	1966	893547
W	449m NW	Unspecified Ground Workings	1955	884489
13	450m SE	Unspecified Tank	1925 - 1938	957969
W	451m NW	Unspecified Heaps	1938	861017
W	457m NW	Unspecified Ground Workings	1891	882807
I	458m N	Unspecified Heap	1966	949824
M	461m N	Unspecified Heap	1955	803338
I	463m N	Unspecified Heap	1891 - 1925	910606
I	463m N	Unspecified Heap	1947	922951



ID	Location	Land use	Dates present	Group ID
I	464m N	Unspecified Old Shaft	1955	806153
I	465m N	Unspecified Heap	1938	935360
I	466m N	Unspecified Disused Shaft	1966	812952
I	468m N	Unspecified Old Shafts	1925 - 1947	919488
I	469m N	Unspecified Old Shaft	1955	806154
I	470m N	Unspecified Shafts	1891	809129
W	474m NW	Unspecified Disused Shaft	1966	812950
14	475m SE	Unspecified Pits	1938	863482
I	476m N	Coal Pit	1851	808452
15	477m N	Colliery	1851	798248
T	478m NW	Unspecified Tanks	1950	887271
T	480m NW	Unspecified Tanks	1938	973630
W	481m NW	Unspecified Old Shaft	1955	872971
I	481m N	Unspecified Disused Shaft	1966	812951
W	482m NW	Unspecified Old Shaft	1925 - 1947	933601
16	483m NW	Unspecified Depot	1990	818270
I	484m N	Unspecified Old Shafts	1925 - 1947	858661
I	485m N	Unspecified Old Shaft	1955	806155

This data is sourced from Ordnance Survey / Groundsure.

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

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



ID	Location	Land use	Dates present	Group ID
D	297m NW	Unspecified Tank	1987 - 1994	131812
D	318m N	Unspecified Tank	1973	112545
R	338m N	Tanks	1973	105837
U	398m NW	Settling Tanks	1927	122956
U	400m NW	Settling Tanks	1937	126633
U	430m NW	Settling Tanks	1937	147519
W	445m NW	Unspecified Tank	1994	112550
T	455m NW	Settling Tanks	1927	108655
T	456m NW	Tanks	1937	105835
T	494m NW	Settling Tank	1927 - 1937	133556

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 14**

ID	Location	Land use	Dates present	Group ID
A	112m NW	Electricity Substation	1992	85413
A	114m NW	Electricity Substation	1993 - 1997	83317
C	144m NE	Electricity Substation	1978 - 1984	66694
H	215m NW	Gas Governor	1992 - 1997	74213
H	221m NW	Electricity Substation	1993 - 1997	85444
H	227m NW	Electricity Substation	1989 - 1992	81066
J	247m NE	Electricity Substation	1973 - 1994	67918
J	252m NE	Electricity Substation	1987	85158



ID	Location	Land use	Dates present	Group ID
D	304m NW	Electricity Substation	1987 - 1994	69708
D	316m NW	Electricity Substation	1987 - 1994	79877
S	342m NW	Electricity Substation	1982	77789
S	342m NW	Electricity Substation	1992 - 1997	78944
8	350m W	Electricity Substation	1992 - 1997	75507
T	395m NW	Electricity Substation	1992	70254
T	396m NW	Electricity Substation	1993 - 1997	77082
11	443m W	Electricity Substation	1982 - 1993	75863
12	443m NE	Electricity Substation	1973 - 1997	73218
T	496m NW	Electricity Substation	1993 - 1997	82215
T	498m NW	Electricity Substation	1992 - 1994	68566

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 14**



ID	Location	Land use	Dates present	Group ID
10	392m SW	Garage	1989 - 1997	27669
V	408m NW	Garage	1982	21978
V	452m W	Garage	1982	22780

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

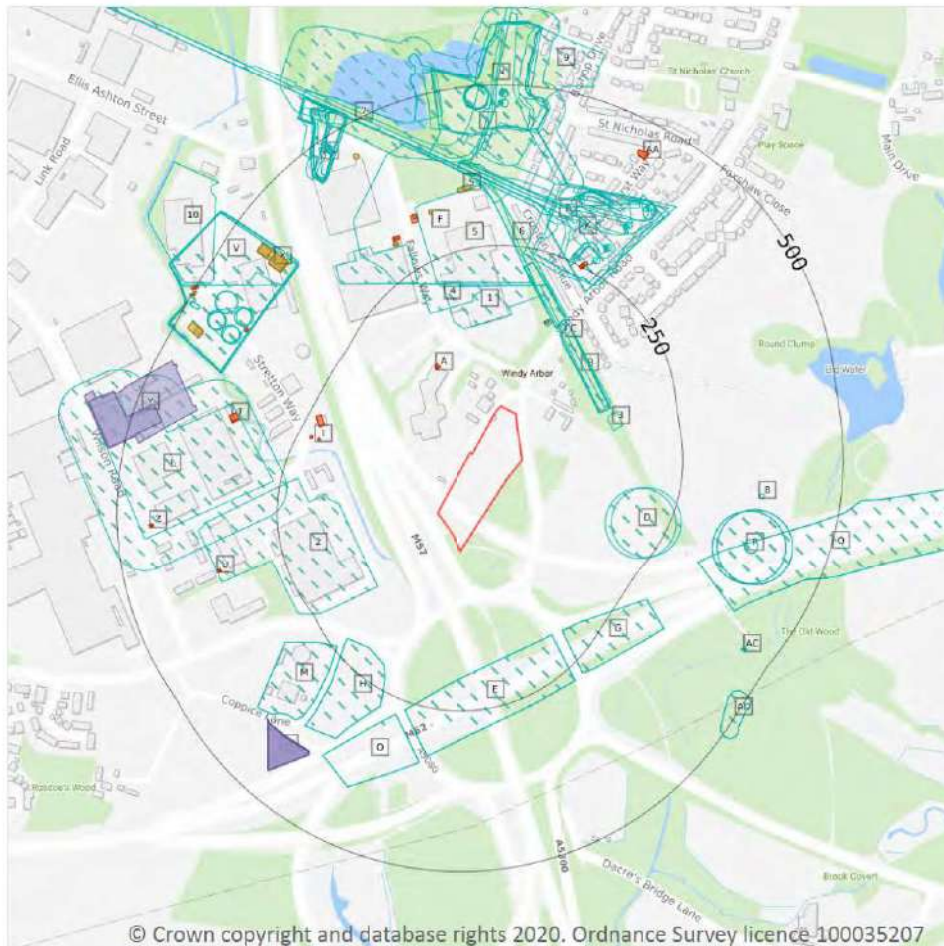
0

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

169

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
B	116m NE	Cuttings	1950	889421
B	117m NE	Cuttings	1947	889421
B	117m NE	Cuttings	1925	952881



ID	Location	Land Use	Date	Group ID
C	119m NE	Cuttings	1938	957884
B	127m NE	Cuttings	1989	906359
1	132m N	Unspecified Works	1989	934284
2	134m SW	Unspecified Works	1989	938212
3	141m E	Cuttings	1989	795653
C	144m NE	Electric Substation	1975	834465
C	146m NE	Cuttings	1950	866420
C	148m NE	Cuttings	1947	888216
C	148m NE	Cuttings	1925	949249
C	154m NE	Cuttings	1989	936544
D	154m SE	Unspecified Pits	1906	901505
D	162m SE	Unspecified Pits	1891	901505
4	169m N	Unspecified Works	1975	976939
E	180m SE	Cuttings	1975	970795
E	180m SE	Cuttings	1989	866992
F	189m N	Unspecified Works	1975	976939
5	193m N	Unspecified Works	1990	964460
6	196m N	Railway Sidings	1955	888193
G	203m SE	Cuttings	1975	910805
G	203m SE	Cuttings	1989	883205
H	208m SW	Nursery	1975	913666
H	208m SW	Nursery	1989	924721
J	219m NE	Disused Colliery	1947	956965
J	219m NE	Disused Colliery	1925	879683
K	224m NE	Old Colliery	1891	943828
K	232m NE	Old Colliery	1906	943828
F	232m NW	Unspecified Warehouse	1990	807173
K	232m NE	Colliery	1851	798249



ID	Location	Land Use	Date	Group ID
L	238m W	Unspecified Works	1975	945342
M	244m SW	Unspecified Depot	1975	925987
M	244m SW	Unspecified Depot	1989	925297
K	245m NE	Unspecified Heaps	1891	831274
N	248m NE	Railway Sidings	1851	959646
K	250m NE	Unspecified Ground Workings	1925	948987
K	254m NE	Unspecified Ground Workings	1938	865500
K	254m NE	Unspecified Ground Workings	1938	865500
L	261m W	Unspecified Works	1989	934148
K	263m NE	Coal Pit	1851	808447
K	265m NE	Unspecified Disused Shafts	1966	835392
O	274m S	Cuttings	1975	950437
O	274m S	Cuttings	1989	975788
K	277m NE	Unspecified Ground Workings	1906	874058
K	288m NE	Unspecified Old Shafts	1947	875578
K	288m NE	Unspecified Old Shafts	1925	875578
K	291m NE	Unspecified Disused Shafts	1966	835391
K	291m NE	Unspecified Old Shaft	1955	806146
K	292m NE	Unspecified Old Shafts	1938	875578
K	292m NE	Unspecified Old Shafts	1938	875578
P	297m NE	Railway Sidings	1925	982477
J	306m N	Colliery	1891	873412
J	306m N	Mineral Railway Sidings	1891	834013
P	307m N	Railway Sidings	1938	880766
P	308m N	Railway Sidings	1947	879950
7	309m N	Railway Sidings	1906	936496
K	313m NE	Unspecified Heap	1891	867572
Q	317m SE	Cuttings	1975	883734



ID	Location	Land Use	Date	Group ID
Q	317m SE	Cuttings	1989	910377
K	320m NE	Unspecified Ground Workings	1906	971379
R	322m E	Unspecified Pits	1947	925299
R	322m E	Unspecified Pits	1925	944492
K	324m NE	Unspecified Old Shaft	1955	806148
R	328m E	Unspecified Pits	1950	926775
R	328m E	Unspecified Pits	1967	983306
K	329m NE	Coal Pit	1851	808448
K	333m NE	Unspecified Old Shafts	1947	940194
K	333m NE	Unspecified Old Shafts	1925	940194
K	333m NE	Unspecified Heap	1966	917620
K	335m NE	Unspecified Old Shaft	1955	806147
K	336m NE	Unspecified Old Shafts	1938	940194
K	336m NE	Unspecified Old Shafts	1938	940194
N	336m N	Disused Colliery	1955	946509
K	337m NE	Unspecified Disused Shafts	1966	835393
S	338m N	Unspecified Tanks	1975	815134
K	339m N	Unspecified Ground Workings	1947	918600
K	339m N	Unspecified Ground Workings	1955	918600
K	342m N	Unspecified Ground Workings	1925	961857
K	345m N	Unspecified Heap	1938	892612
K	345m N	Unspecified Heap	1938	892612
K	351m NE	Unspecified Heap	1891	865998
K	351m N	Magazine	1891	827279
J	358m N	Disused Colliery	1906	921785
K	363m NE	Unspecified Heap	1955	886581
R	371m E	Unspecified Pits	1938	920179
R	371m E	Unspecified Pits	1938	920179



ID	Location	Land Use	Date	Group ID
8	373m E	Sandstone Delf	1851	812656
J	374m N	Colliery	1851	873412
K	374m NE	Unspecified Old Shafts	1947	951254
K	374m NE	Unspecified Old Shafts	1925	971251
K	375m NE	Unspecified Ground Workings	1925	920783
K	378m NE	Unspecified Disused Shafts	1966	835394
K	378m NE	Unspecified Old Shaft	1955	806152
V	382m NW	Sewage Works	1955	959491
V	383m NW	Sewage Works	1950	870370
V	383m NW	Sewage Works	1947	966970
V	383m NW	Sewage Works	1925	966970
V	386m NW	Sewage Works	1938	966970
V	386m NW	Sewage Works	1938	966970
V	397m NW	Unspecified Tank	1950	915977
V	399m NW	Unspecified Tank	1947	915977
V	399m NW	Unspecified Tank	1925	988346
V	399m NW	Unspecified Tanks	1938	815135
V	400m NW	Unspecified Tank	1950	879671
V	403m NW	Unspecified Tank	1947	853971
V	403m NW	Unspecified Tank	1925	909267
J	411m N	Unspecified Disused Mine	1966	810940
J	421m N	Disused Colliery	1938	947601
J	421m N	Disused Colliery	1938	956293
V	429m NW	Unspecified Tank	1950	857500
V	430m NW	Unspecified Tank	1947	857500
J	430m N	Unspecified Ground Workings	1891	799829
V	430m NW	Unspecified Tank	1950	948197
V	433m NW	Unspecified Tank	1947	849069



ID	Location	Land Use	Date	Group ID
V	433m NW	Unspecified Tank	1925	899371
AB	444m NW	Unspecified Ground Workings	1947	920125
AB	444m NW	Unspecified Ground Workings	1925	954182
AB	444m NW	Unspecified Ground Workings	1906	984867
AB	444m NW	Old Colliery	1947	954771
AB	444m NW	Old Colliery	1925	930422
AB	444m NW	Old Colliery	1906	930422
AB	444m NW	Old Colliery	1891	930422
AB	444m NW	Old Colliery	1955	968166
AB	445m NW	Unspecified Disused Mine	1966	810942
AB	445m NW	Unspecified Ground Workings	1966	893547
AB	445m NW	Old Colliery	1938	857053
AB	445m NW	Old Colliery	1938	857053
AB	449m NW	Unspecified Ground Workings	1955	884489
AC	450m SE	Unspecified Tank	1925	957969
AB	451m NW	Unspecified Heaps	1938	861017
AB	451m NW	Unspecified Heaps	1938	861017
AC	451m SE	Unspecified Tank	1938	957969
AB	457m NW	Unspecified Ground Workings	1891	882807
J	458m N	Unspecified Heap	1966	949824
N	461m N	Unspecified Heap	1955	803338
J	463m N	Unspecified Heap	1947	922951
J	463m N	Unspecified Heap	1925	910606
J	463m N	Unspecified Heap	1906	910606
J	463m N	Unspecified Heap	1891	910606
J	464m N	Unspecified Old Shaft	1955	806153
J	465m N	Unspecified Heap	1938	935360
J	465m N	Unspecified Heap	1938	935360



ID	Location	Land Use	Date	Group ID
J	466m N	Unspecified Disused Shaft	1966	812952
J	468m N	Unspecified Old Shafts	1947	919488
J	468m N	Unspecified Old Shafts	1925	919488
J	469m N	Unspecified Old Shaft	1955	806154
J	470m N	Unspecified Shafts	1891	809129
J	471m N	Unspecified Old Shafts	1938	919488
J	471m N	Unspecified Old Shafts	1938	919488
AB	474m NW	Unspecified Disused Shaft	1966	812950
AD	475m SE	Unspecified Pits	1938	863482
AD	475m SE	Unspecified Pits	1938	863482
J	476m N	Coal Pit	1851	808452
9	477m N	Colliery	1851	798248
V	478m NW	Unspecified Tanks	1950	887271
V	480m NW	Unspecified Tanks	1938	973630
AB	481m NW	Unspecified Old Shaft	1955	872971
J	481m N	Unspecified Disused Shaft	1966	812951
AB	482m NW	Unspecified Old Shaft	1947	933601
AB	482m NW	Unspecified Old Shaft	1925	933601
AB	483m NW	Unspecified Old Shaft	1938	933601
AB	483m NW	Unspecified Old Shaft	1938	933601
10	483m NW	Unspecified Depot	1990	818270
J	484m N	Unspecified Old Shafts	1947	858661
J	484m N	Unspecified Old Shafts	1925	858661
J	485m N	Unspecified Old Shaft	1955	806155
J	486m N	Unspecified Old Shafts	1938	858661
J	486m N	Unspecified Old Shafts	1938	858661

This data is sourced from Ordnance Survey / Groundsure.



2.2 Historical tanks

Records within 500m

12

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. 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
F	297m NW	Unspecified Tank	1987	131812
F	298m NW	Unspecified Tank	1994	131812
F	318m N	Unspecified Tank	1973	112545
S	338m N	Tanks	1973	105837
X	398m NW	Settling Tanks	1927	122956
X	400m NW	Settling Tanks	1937	126633
X	430m NW	Settling Tanks	1937	147519
AB	445m NW	Unspecified Tank	1994	112550
V	455m NW	Settling Tanks	1927	108655
V	456m NW	Tanks	1937	105835
V	494m NW	Settling Tank	1927	133556
V	494m NW	Settling Tank	1937	133556

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

43

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
A	112m NW	Electricity Substation	1992	85413
A	114m NW	Electricity Substation	1997	83317



ID	Location	Land Use	Date	Group ID
A	114m NW	Electricity Substation	1993	83317
C	144m NE	Electricity Substation	1978	66694
C	146m NE	Electricity Substation	1984	66694
I	215m NW	Gas Governor	1992	74213
I	216m NW	Gas Governor	1997	74213
I	216m NW	Gas Governor	1993	74213
I	221m NW	Electricity Substation	1997	85444
I	221m NW	Electricity Substation	1993	85444
I	227m NW	Electricity Substation	1989	81066
I	227m NW	Electricity Substation	1992	81066
K	247m NE	Electricity Substation	1994	67918
K	247m NE	Electricity Substation	1973	67918
K	252m NE	Electricity Substation	1987	85158
F	304m NW	Electricity Substation	1987	69708
F	305m NW	Electricity Substation	1994	69708
F	316m NW	Electricity Substation	1987	79877
F	320m NW	Electricity Substation	1994	79877
T	342m NW	Electricity Substation	1982	77789
T	342m NW	Electricity Substation	1992	78944
T	342m NW	Electricity Substation	1996	78944
T	342m NW	Electricity Substation	1997	78944
T	342m NW	Electricity Substation	1993	78944
U	350m W	Electricity Substation	1996	75507
U	350m W	Electricity Substation	1997	75507
U	350m W	Electricity Substation	1992	75507
U	350m W	Electricity Substation	1993	75507
V	395m NW	Electricity Substation	1992	70254
V	396m NW	Electricity Substation	1996	77082



ID	Location	Land Use	Date	Group ID
V	396m NW	Electricity Substation	1997	77082
V	396m NW	Electricity Substation	1993	77082
Z	443m W	Electricity Substation	1982	75863
AA	443m NE	Electricity Substation	1997	73218
AA	444m NE	Electricity Substation	1973	73218
AA	444m NE	Electricity Substation	1984	73218
Z	445m W	Electricity Substation	1992	75863
Z	445m W	Electricity Substation	1993	75863
Z	446m W	Electricity Substation	1982	75863
V	496m NW	Electricity Substation	1996	82215
V	496m NW	Electricity Substation	1997	82215
V	496m NW	Electricity Substation	1993	82215
V	498m NW	Electricity Substation	1992	68566

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

6

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**

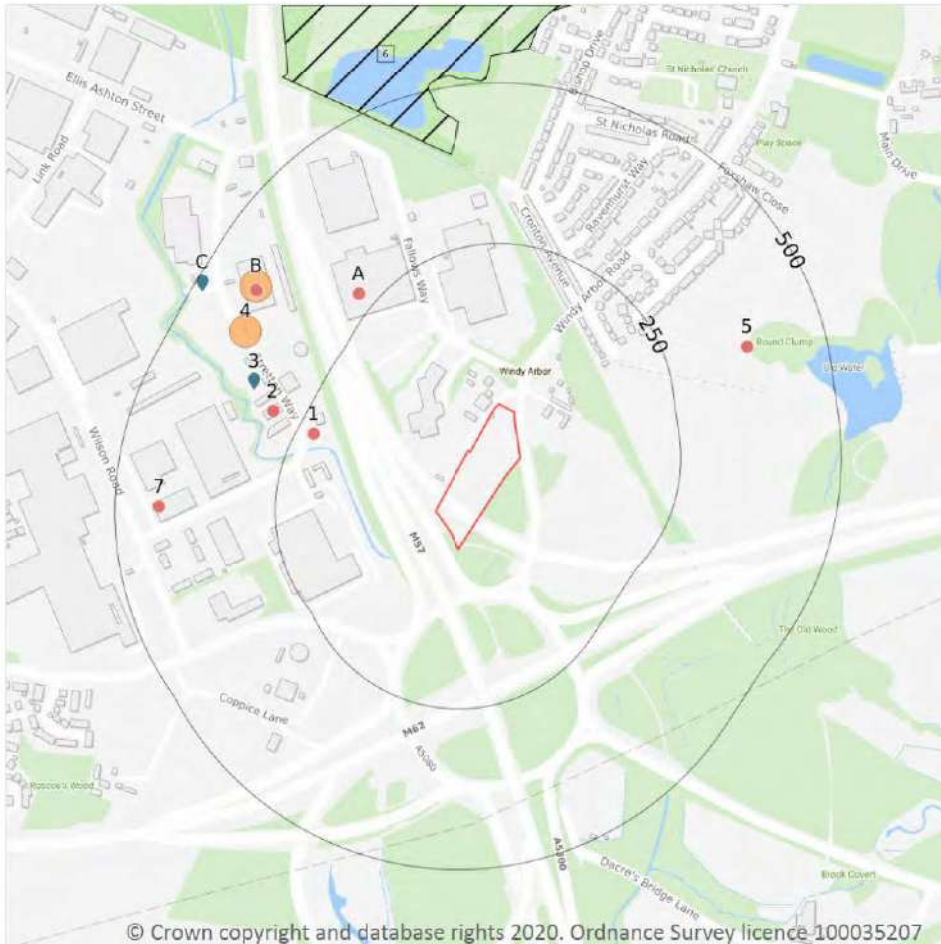


ID	Location	Land Use	Date	Group ID
W	392m SW	Garage	1993	27669
W	392m SW	Garage	1997	27669
W	393m SW	Garage	1989	27669
W	393m SW	Garage	1992	27669
Y	408m NW	Garage	1982	21978
Y	452m W	Garage	1982	22780

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Historical landfill (EA/NRW)
- 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

1

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 34**

ID	Location	Details		
6	395m N	Site Address: Coalgate Lane Landfill Site, Ellis Ashton Street, Huyton, Knowsley, Merseyside Licence Holder Address: -	Waste Licence: - Site Reference: R13/01, GDO 017, GDO M019, GDO 020 Waste Type: Inert, Industrial, Commercial, Household, Liquid sludge Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: Huyton Urban District Council and Merseyside County Council Licence Holder: Huyton Urban District Council and Merseyside County Council First Recorded 01/01/1972 Last Recorded: 01/01/1983

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

3.5 Historical waste sites

Records within 500m

2

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 34**

ID	Location	Address	Further Details	Date
4	369m NW	Site Address: Orchid Environmental MWDA Trea, Stretton Way, & W H Smith News, Liverpool, Merseyside, L36 6JF	Type of Site: Waste Transfer Station Planning application reference: 12/00669/COU Description: Scheme comprises change of use of from distribution depot (use class B8) to waste reception building, together with external alterations, construction of double weighbridge and gatehouse, temporary modular building, relocation of car parking and associated works. Data source: Historic Planning Application Data Type: Point	04/03/2013
B	393m NW	Site Address: Fleet Removals Of Liverpool, Stretton Way, LIVERPOOL, Merseyside, L36 6JF	Type of Site: Waste Treatment & Transfer Facilities Planning application reference: 06/00990/FUL Description: Scheme comprises change of use and extension to form waste treatment and transfer facility with associated visitor centre, together with construction of car parking, installation of weighbridge and associated works. Construction - black top surfacing s e works. An application (ref: 06/00990/FUL) for detailed planning permission was granted by Knowsley B.C. Planning decision obtained Data source: Historic Planning Application Data Type: Point	-

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

3.6 Licensed waste sites

Records within 500m

5

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

Features are displayed on the Waste and landfill map on **page 34**



ID	Location	Details		
3	345m NW	Site Name: Stretton Way Bulking Station Site Address: Stretton Way Depot, Stretton Way, Huyton, Knowsley, Merseyside, L36 6JF Correspondence Address: -	Type of Site: 75kte HCl Waste Transfer Station Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: KNO020 EPR reference: EA/EPR/EP3491LE/A001 Operator: Knowsley Metropolitan Borough Council Waste Management licence No: 101122 Annual Tonnage: 0	Issue Date: 03/11/2009 Effective Date: - Modified: - Surrendered Date: Jun 19 2015 12:00AM Expiry Date: - Cancelled Date: - Status: Surrendered
C	491m NW	Site Name: Stretton Way Site Address: Stretton Way, Huyton Ind Est, Huyton, Merseyside, L36 6JF Correspondence Address: -	Type of Site: 75kte HCl Waste TS + treatment Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: FCC004 EPR reference: EA/EPR/JB3633RP/A001 Operator: F C C Recycling (U K) Limited Waste Management licence No: 104504 Annual Tonnage: 74999	Issue Date: 23/07/2012 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
C	491m NW	Site Name: Arpley 2 Site Address: Stretton Way, Huyton Ind Est, Huyton, Merseyside, L36 6JF Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: FCC004 EPR reference: EA/EPR/JB3633RP/V002 Operator: F C C Recycling (U K) Limited Waste Management licence No: 104504 Annual Tonnage: 120000	Issue Date: 23/07/2012 Effective Date: - Modified: 18/12/2012 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified



ID	Location	Details		
C	491m NW	Site Name: Arpley 2 Site Address: Arpley 2, Stretton Way, Huyton Ind Est, Huyton, Merseyside, L36 6JF Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: FCC004 EPR reference: EA/EPR/JB3633RP/V003 Operator: F C C Recycling (U K) Limited Waste Management licence No: 104504 Annual Tonnage: 120000	Issue Date: 23/07/2012 Effective Date: - Modified:: 08/06/2016 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: To PPC
C	491m NW	Site Name: Arpley 2 Site Address: Arpley 2, Stretton Way, Huyton Ind Est, Huyton, Merseyside, L36 6JF Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: FCC004 EPR reference: EA/EPR/JB3633RP/V003 Operator: F C C Recycling (U K) Limited Waste Management licence No: 104504 Annual Tonnage: 120000	Issue Date: 23/07/2012 Effective Date: - Modified:: 08/06/2016 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: To PPC

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

3.7 Waste exemptions

Records within 500m

11

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 34**

ID	Location	Site	Reference	Category	Sub-Category	Description
1	225m NW	STRETTON WAY, LIVERPOOL, L36 6JF	WEX093799	Disposing of waste exemption	Not on a farm	Burning waste in the open

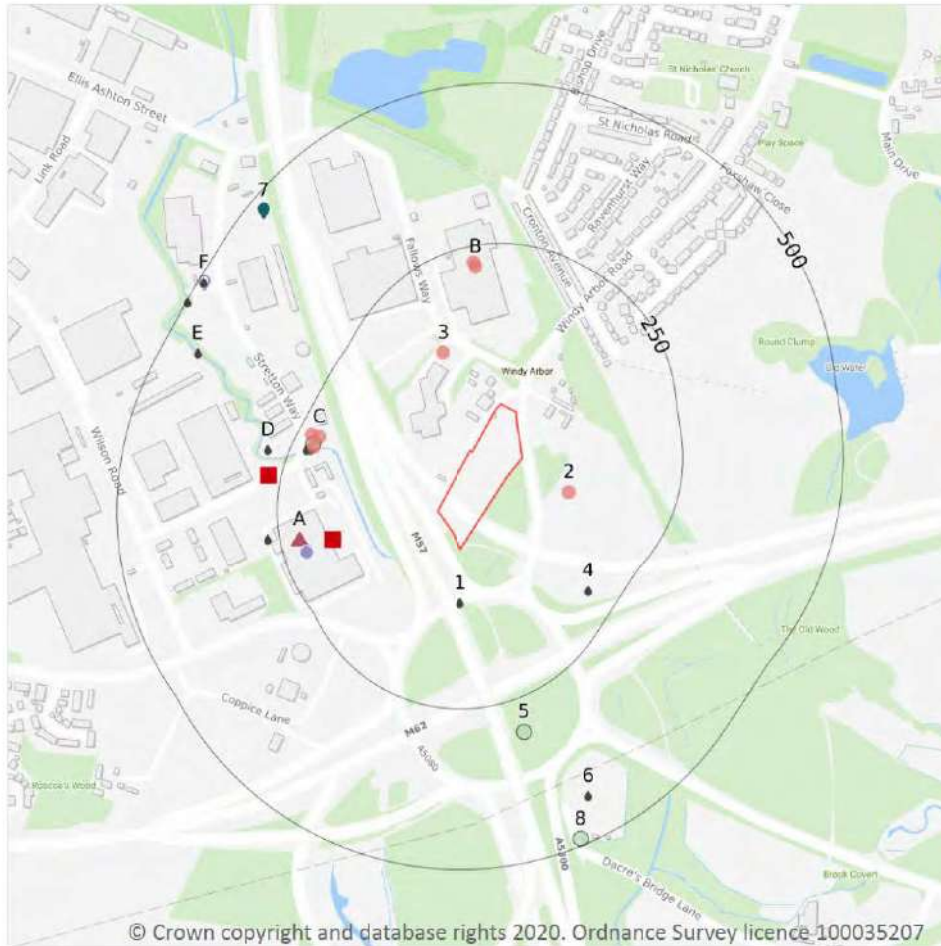


ID	Location	Site	Reference	Category	Sub-Category	Description
A	278m NW	Batleys Cash & Carry Venture Park Industrial Estate Windy Arbor Road Liverpool L35 1RZ	EPR/EE5249C W/A001	Storing waste exemption	Non- Agricultura l Waste Only	Storage of waste in a secure place
A	278m NW	Batleys Cash & Carry Venture Park Industrial Estate Windy Arbor Road Liverpool L35 1RZ	EPR/EE5249C W/A001	Treating waste exemption	Non- Agricultura l Waste Only	Preparatory treatments (baling, sorting, shredding etc)
2	298m NW	STRETTON WAY, LIVERPOOL, L36 6JF	WEX089643	Storing waste exemption	Not on a farm	Storage of waste in a secure place
5	376m E	Norlands Farm Norlands Lane Widnes WA8 5AT	EPR/CE5048CT /A001	Storing waste exemption	Non- Agricultura l Waste Only	Storage of sludge
B	413m NW	STRETTON WAY, LIVERPOOL, L36 6JF	WEX121161	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
B	413m NW	Knowsley Depot, Stretton Way, Huyton, Knowsley, Merseyside, L36 6JF	WEX076561	Storing waste exemption	Not on a farm	Storage of waste in a secure place
B	414m NW	Locker Freight Ltd, Stretton Way, Huyton, Liverpool, L366JF	WEX137591	Storing waste exemption	Not on a farm	Storage of waste in a secure place
B	415m NW	Riverside House Stretton Way LIVERPOOL L36 6JF	EPR/GF0235A U/A001	Storing waste exemption	Non- Agricultura l Waste Only	Storage of waste in a secure place
B	415m NW	Knowsley Metropolitan Borough Council Stretton Way LIVERPOOL L36 6JF	EPR/EF0001M P/A001	Treating waste exemption	Non- Agricultura l Waste Only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
7	432m W	Huyton HWRC, Huyton Industrial Estate, Wilson Road, Huyton, L36 6AD	WEX175384	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
- ▲ 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
- List 1 Dangerous Substances
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m

7

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 40**

ID	Location	Company	Address	Activity	Category
2	90m SE	Mast (Telecommu nication)	Merseyside, L35	Telecommunications Features	Infrastructure and Facilities
3	121m NW	Gas Governor	Merseyside, L35	Gas Features	Infrastructure and Facilities



ID	Location	Company	Address	Activity	Category
B	217m N	Olympic	Fallows Way, Whiston, Prescot, Merseyside, L35 1RZ	Milling, Refining and Food Additives	Foodstuffs
C	218m NW	Gas Governor Station	Merseyside, L36	Gas Features	Infrastructure and Facilities
C	218m NW	Sewage Pumping Station	Merseyside, L36	Waste Storage, Processing and Disposal	Infrastructure and Facilities
B	224m N	Works	Merseyside, L35	Unspecified Works Or Factories	Industrial Features
C	229m NW	Electricity Sub Station	Merseyside, L36	Electrical Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m

0

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m

0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m

0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.



4.5 Sites determined as Contaminated Land

Records within 500m**0**

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

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m**0**

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

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m**0**

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m**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 40**

ID	Location	Details	
A	219m W	Application reference number: 06/00312/HAZ Application status: Pending Application date: 06/04/2006 Address: Goodrich Actuation Systems, Stretton Way, Huyton, Knowsley, L36 6JE	Details: Application For Hazardous Substances Consent For The Storage And Use Of Category 1 (very Toxic) And Category 2 (toxic) Substances 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

5

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 40**

ID	Location	Details	
A	214m W	Operator: Goodrich Actuation Systems Ltd Address: Stretton Way, Liverpool, Merseyside, L36 6JE Process: Inorganic Chemical Processes Permit Number: BX9285	Original Permit Number: IPCMINVAR Date Approved: - Effective Date: - Status: Valid
A	214m W	Operator: Goodrich Actuation Systems Ltd Address: Stretton Way, Liverpool, Merseyside, L36 6JE Process: Inorganic Chemical Processes Permit Number: AO2426	Original Permit Number: IPCAPP Date Approved: 5-12-1994 Effective Date: 12-12-1994 Status: Superseded By Variation
A	214m W	Operator: Goodrich Actuation Systems Ltd Address: Stretton Way, Liverpool, Merseyside, L36 6JE Process: Inorganic Chemical Processes Permit Number: AZ8005	Original Permit Number: IPCMINVAR Date Approved: 24-9-1997 Effective Date: 1-10-1997 Status: Superseded By Variation
A	214m W	Operator: Goodrich Actuation Systems Ltd Address: Stretton Way, Liverpool, Merseyside, L36 6JE Process: Inorganic Chemical Processes Permit Number: BE1364	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Superseded By Variation
A	214m W	Operator: Goodrich Actuation Systems Ltd Address: Stretton Way, Liverpool, Merseyside, L36 6JE Process: Inorganic Chemical Processes Permit Number: BY0437	Original Permit Number: IPCMINVAR Date Approved: 16-6-2004 Effective Date: 17-6-2004 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

8

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 40**



ID	Location	Details	
A	214m W	Operator: GOODRICH ACTUATION SYSTEMS LTD Installation Name: HUYTON SURFACE TREATMENT EPR/BX4232IA Process: THE MANUFACTURE OF DYESTUFFS, PRINTING INK AND COATING MATERIALS: MANUFACTURING POWDER >200 T /12 MONTHS Permit Number: BX4232IA Original Permit Number: BX4232IA	EPR Reference: - Issue Date: 27/01/2005 Effective Date: 27/01/2005 Last date noted as effective: 15/05/2020 Status: SUPERCEDED
A	214m W	Operator: GOODRICH ACTUATION SYSTEMS LTD Installation Name: HUYTON SURFACE TREATMENT EPR/BX4232IA Process: SURFACE TREATING METALS AND PLASTICS; ELECTROLYTIC/CHEMICAL >30 CU M Permit Number: SP3034WK Original Permit Number: BX4232IA	EPR Reference: - Issue Date: - Effective Date: 02/09/2015 Last date noted as effective: 15/05/2020 Status: SURRENDER EFFECTIVE
A	214m W	Operator: GOODRICH ACTUATION SYSTEMS LTD Installation Name: HUYTON SURFACE TREATMENT EPR/BX4232IA Process: THE MANUFACTURE OF DYESTUFFS, PRINTING INK AND COATING MATERIALS: MANUFACTURING POWDER >200 T /12 MONTHS Permit Number: SP3034WK Original Permit Number: BX4232IA	EPR Reference: - Issue Date: - Effective Date: 02/09/2015 Last date noted as effective: 15/05/2020 Status: SURRENDER EFFECTIVE
A	214m W	Operator: GOODRICH ACTUATION SYSTEMS LTD Installation Name: HUYTON SURFACE TREATMENT EPR/BX4232IA Process: SURFACE TREATING METALS AND PLASTICS; ELECTROLYTIC/CHEMICAL >30 CU M Permit Number: XP3937CW Original Permit Number: BX4232IA	EPR Reference: - Issue Date: 20/09/2012 Effective Date: 20/09/2012 Last date noted as effective: 15/05/2020 Status: SUPERCEDED
A	214m W	Operator: GOODRICH ACTUATION SYSTEMS LTD Installation Name: HUYTON SURFACE TREATMENT EPR/BX4232IA Process: SURFACE TREATING METALS AND PLASTICS; ELECTROLYTIC/CHEMICAL >30 CU M Permit Number: BX4232IA Original Permit Number: BX4232IA	EPR Reference: - Issue Date: 27/01/2005 Effective Date: 27/01/2005 Last date noted as effective: 15/05/2020 Status: SUPERCEDED
A	214m W	Operator: GOODRICH ACTUATION SYSTEMS LTD Installation Name: HUYTON SURFACE TREATMENT EPR/BX4232IA Process: THE MANUFACTURE OF DYESTUFFS, PRINTING INK AND COATING MATERIALS: MANUFACTURING POWDER >200 T /12 MONTHS Permit Number: XP3937CW Original Permit Number: BX4232IA	EPR Reference: - Issue Date: 20/09/2012 Effective Date: 20/09/2012 Last date noted as effective: 15/05/2020 Status: SUPERCEDED



ID	Location	Details	
F	491m NW	Operator: FCC RECYCLING (UK) LIMITED Installation Name: ARPLEY2 EPR/JB3633RP Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: LP3139RK Original Permit Number: LP3139RK	EPR Reference: - Issue Date: 08/06/2016 Effective Date: 08/06/2016 Last date noted as effective: 15/05/2020 Status: SUPERCEDED
F	491m NW	Operator: FCC RECYCLING (UK) LIMITED Installation Name: ARPLEY 2 - EPR/LP3139RK Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: CP3638DW Original Permit Number: LP3139RK	EPR Reference: - Issue Date: 15/11/2016 Effective Date: 15/11/2016 Last date noted as effective: 15/05/2020 Status: EFFECTIVE

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

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

Records within 500m

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 40**

ID	Location	Address	Details	
7	477m NW	Local Asphalt Liverpool (RMC Roadstone), Stretton Way, Huyton Industrial Estate, L36 6JF	Process: Roadstone Coating Processes Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements 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

12

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 40**

ID	Location	Address	Details	
1	85m S	HILLSIDE BROW, WINDY ARBOUR BROW, WHISTON	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 016992445 Permit Version: 1 Receiving Water: CHAPEL BROOK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 05/02/1992 Revocation Date: -
4	202m SE	LAING O'ROURKE INFRASTRUCTURE LTD, M62 JNT6 IMPROVMENT OFFICE, WINDY ARBOUR ROAD, TARBOCK, MERSEYSIDE, L35 1RB	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 016993930 Permit Version: 1 Receiving Water: LOGWOOD MILL BROOK	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 03/05/2007 Effective Date: 03/05/2007 Revocation Date: -
C	220m NW	STRETTON WAY WW NTKW PS, S/O ELECTRIC SUB STATION, STRETTON WAY, LIVERPOOL, MERSEYSIDE, L36 6JF	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: 016990465 Permit Version: 3 Receiving Water: LOGWOOD MILL BROOK	Status: VARIED UNDER EPR 2010 Issue date: 10/06/2016 Effective Date: 10/06/2016 Revocation Date: -
C	225m NW	STRETTON WAY WW NTKW PS, S/O ELECTRIC SUB STATION, STRETTON WAY, LIVERPOOL, MERSEYSIDE, L36 6JF	Effluent Type: MISCELLANEOUS DISCHARGES - EMERGENCY DISCHARGES Permit Number: 016990465 Permit Version: 1 Receiving Water: LOGWOOD MILL BROOK	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 04/01/1984 Revocation Date: 30/06/1991
C	225m NW	STRETTON WAY WW NTKW PS, S/O ELECTRIC SUB STATION, STRETTON WAY, LIVERPOOL, MERSEYSIDE, L36 6JF	Effluent Type: MISCELLANEOUS DISCHARGES - EMERGENCY DISCHARGES Permit Number: 016990465 Permit Version: 2 Receiving Water: LOGWOOD MILL BROOK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 01/07/1991 Revocation Date: 09/06/2016



ID	Location	Address	Details	
A	268m W	WHISTON INDUSTRIAL ESTATE, ELLIS ASHTON STREET, TARBOCK	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: 016990366 Permit Version: 1 Receiving Water: DITTON BROOK	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: - Effective Date: 22/05/1982 Revocation Date: -
D	281m W	STRETTON WAY WW NTWK PS, S/O ELECTRIC SUB STATION, STRETTON WAY, LIVERPOOL, MERSEYSIDE, L36 6JF	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: 016982144 Permit Version: 1 Receiving Water: LOGWOOD MILL BROOK	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: - Effective Date: - Revocation Date: -
6	433m SE	CRONTON COLLIERY TREATMENT PLANT, CRONTON ROAD, CRONTON, LIVERPOOL, MERSEYSIDE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 016992597 Permit Version: 1 Receiving Water: TRIB DITTON BROOK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 28/01/1994 Revocation Date: -
E	446m NW	WHISTON ECCLESTON PK CSO, WHISTON, KNOWSLEY	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016983003 Permit Version: 1 Receiving Water: LONGWOOD MILL BROOK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 08/08/1995 Revocation Date: 30/11/2013
E	446m NW	WHISTON ECCLESTON PK CSO, WHISTON, KNOWSLEY	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016983003 Permit Version: 2 Receiving Water: LONGWOOD MILL BROOK	Status: VARIED UNDER EPR 2010 Issue date: 29/11/2013 Effective Date: 01/12/2013 Revocation Date: -
F	491m NW	BUITONI FOODS LTD, WILSON ROAD, HUYTON	Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: 016990405 Permit Version: 1 Receiving Water: LOGWOOD MILL BROOK	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 13/01/1983 Revocation Date: 24/10/1988
F	498m NW	WHISTON ECCLESTON COUNCIL CAR PARK, STRETTON WAY, KNOWSLEY, L36 6JF	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: EPRWP3724GT Permit Version: 1 Receiving Water: LOGWOOD MILL BROOK	Status: SURRENDERED UNDER EPR 2010 Issue date: 20/09/2012 Effective Date: 25/10/2012 Revocation Date: 13/03/2014



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

3

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

Features are displayed on the Current industrial land use map on **page 40**

ID	Location	Name	Status	Receiving Water	Authorised Substances
A	170m W	Lucas Aerospace Engine Control Ststems	Active	Stw Partcons	Cadmium, Trichloroethylene
D	270m W	Lucas Aerospace Ltd	Active	-	-
D	270m W	Trs Aeronautical Systems	Active	Stw Partcons	Cadmium

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

4.17 List 2 Dangerous Substances

Records within 500m

0

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

3

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 40**

ID	Location	Details	
C	220m NW	Incident Date: 22/04/2002 Incident Identification: 74310 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
5	302m S	Incident Date: 18/10/2002 Incident Identification: 115489 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
8	489m SE	Incident Date: 06/09/2002 Incident Identification: 105908 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)

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

4.19 Pollution inventory substances

Records within 500m

0

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

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

4.20 Pollution inventory waste transfers

Records within 500m

0

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

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



4.21 Pollution inventory radioactive waste

Records within 500m

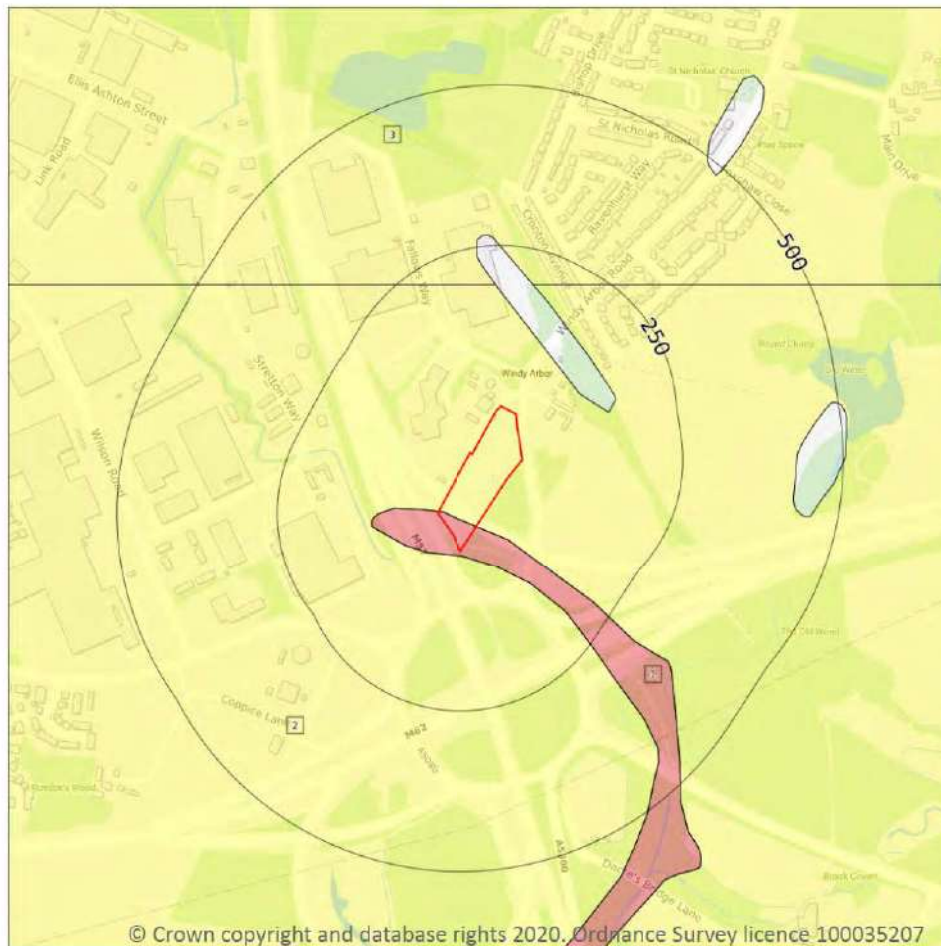
0

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

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



5 Hydrogeology - Superficial aquifer



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

5.1 Superficial aquifer

Records within 500m

3

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 51**

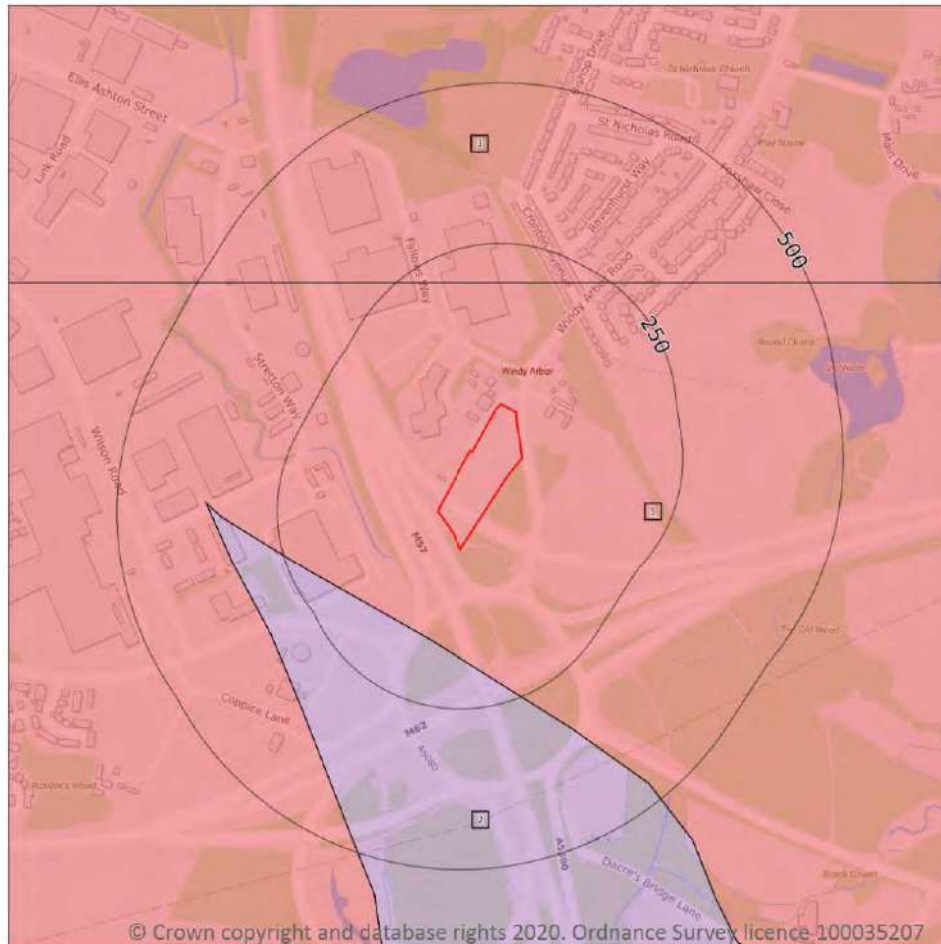
ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	On site	Secondary 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	189m 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

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 53**

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	147m SW	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

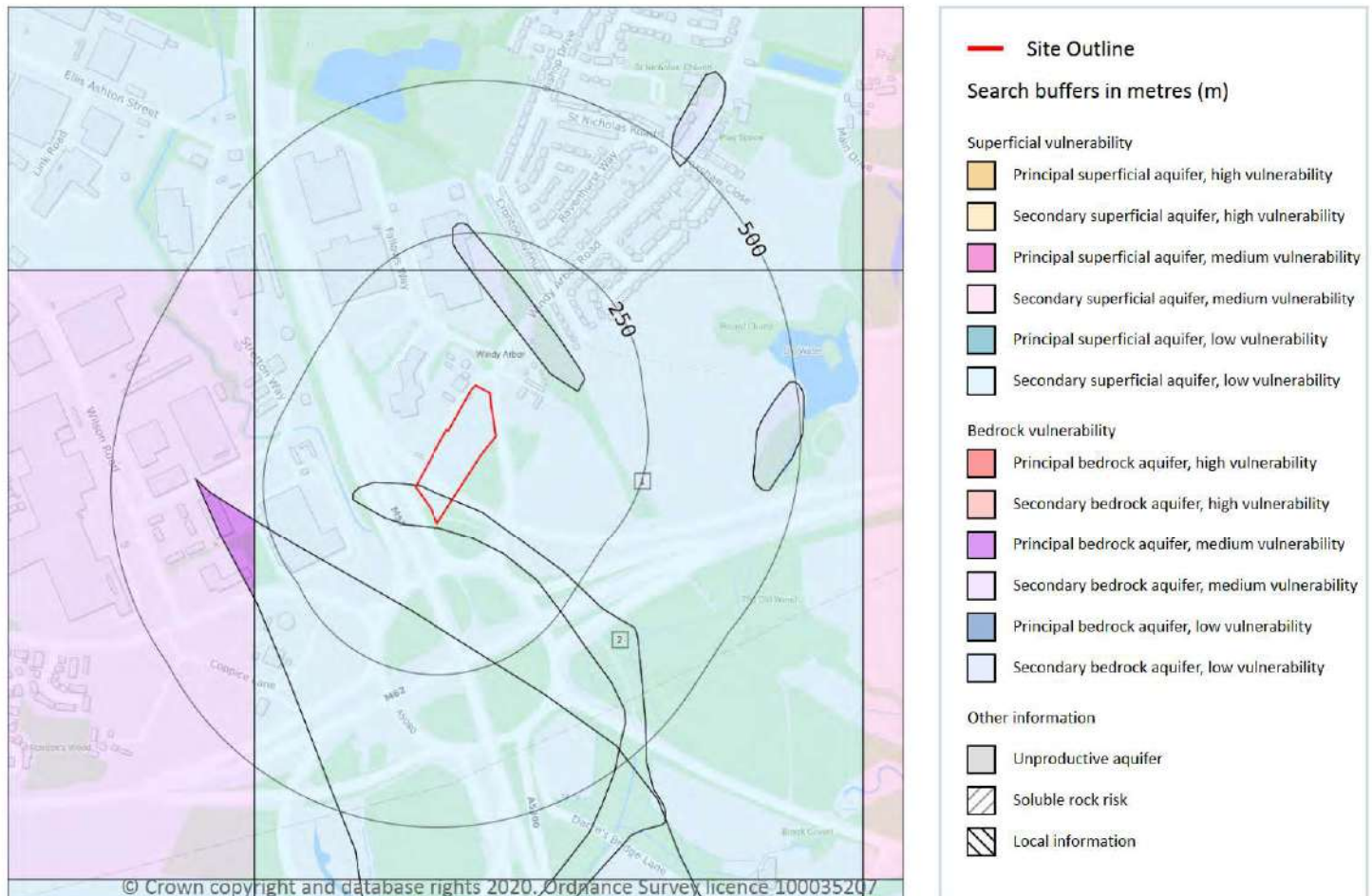


ID	Location	Designation	Description
3	189m N	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

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



Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

2

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

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

Features are displayed on the Groundwater vulnerability map on **page 55**



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: <3m Patchiness value: >90% Recharge potential: Medium	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: <3m Patchiness value: >90% Recharge potential: Medium	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



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

5.6 Groundwater abstractions

Records within 2000m

2

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 57**



ID	Location	Details	
-	1731m S	Status: Historical Licence No: 2569028011 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: "B/HOLES (2) AT WATER LA PUMPING STATION, WHISTON, MERSEYSIDE" Data Type: Point Name: UNITED UTILITIES WATER PLC Easting: 346700 Northing: 387900	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 23/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/09/2001 Version End Date: -
-	1731m S	Status: Active Licence No: 2569028011 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: B/HOLES (2) AT WATER LA PUMPING STATION, WHISTON, MERSEYSIDE Data Type: Point Name: United Utilities Water Ltd Easting: 346700 Northing: 387900	Annual Volume (m³): 1,750,000 Max Daily Volume (m³): 11,400 Original Application No: - Original Start Date: 23/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/09/2001 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m

4

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 57**

ID	Location	Details	
A	570m SE	Status: Historical Licence No: 2569028018 Details: Spray Irrigation - Direct Direct Source: "Surface, Non-Tidal - North West Region" Point: "OCHRE & DOG CLOG BRKS, TARBOCK HALL FARM, TARBOCK, PRESCOT" Data Type: Line Name: T H CRITCHLEY & SON Easting: 346600 Northing: 389100	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 13/05/1976 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1993 Version End Date: -



ID	Location	Details	
A	570m SE	Status: Historical Licence No: 2569028018 Details: Spray Irrigation - Direct Direct Source: Surface, Non-Tidal - North West Region Point: OCHRE & DOG CLOG BRKS, TARBOCK HALL FARM, TARBOCK, PRESCOT Data Type: Line Name: T H CRITCHLEY & SON Easting: 346600 Northing: 389100	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 13/05/1976 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1993 Version End Date: -
A	570m SE	Status: Historical Licence No: 2569028018 Details: Spray Irrigation - Direct Direct Source: Surface, Non-Tidal - North West Region Point: OCHRE AND DOG CLOG BROOKS TARBOCK HALL FARM PRESCOT Data Type: Line Name: T H CRITCHLEY & SON Easting: 346600 Northing: 389100	Annual Volume (m³): 2098 Max Daily Volume (m³): 636 Original Application No: - Original Start Date: 13/05/1976 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1993 Version End Date: -
-	990m S	Status: Active Licence No: 2569028018 Details: Spray Irrigation - Direct Direct Source: Surface, Non-Tidal - North West Region Point: OCHRE AND DOG CLOG BROOKS TARBOCK HALL FARM PRESCOT Data Type: Line Name: BELPOOL DEVELOPMENTS LTD Easting: 346400 Northing: 388600	Annual Volume (m³): 2,098 Max Daily Volume (m³): 636 Original Application No: - Original Start Date: 13/05/1976 Expiry Date: - Issue No: 102 Version Start Date: 31/01/2011 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 57**



ID	Location	Details	
-	1731m S	Status: Historical Licence No: 2569028011 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: "B/HOLES (2) AT WATER LA PUMPING STATION, WHISTON, MERSEYSIDE" Data Type: Point Name: UNITED UTILITIES WATER PLC Easting: 346700 Northing: 387900	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 23/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/09/2001 Version End Date: -
-	1731m S	Status: Active Licence No: 2569028011 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: B/HOLES (2) AT WATER LA PUMPING STATION, WHISTON, MERSEYSIDE Data Type: Point Name: United Utilities Water Ltd Easting: 346700 Northing: 387900	Annual Volume (m³): 1,750,000 Max Daily Volume (m³): 11,400 Original Application No: - Original Start Date: 23/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/09/2001 Version End Date: -

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

5.9 Source Protection Zones

Records within 500m

1

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 57**

ID	Location	Type	Description
1	146m SW	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



- 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

8

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 61**

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)	Chapel Brook



ID	Location	Type of water feature	Ground level	Permanence	Name
3	On site	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	Chapel Brook
A	56m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
4	58m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Chapel Brook
B	99m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Logwood Mill Brook
5	194m SE	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	Chapel Brook
6	213m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
7	213m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Logwood Mill Brook

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

3

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 61**

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site

1

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



Features are displayed on the Hydrology map on **page 61**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
2	On site	River WB catchment	Prescot Brook (Logwood Mill Brook)	GB112069060710	Ditton	Lower Mersey

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. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each water body listed.

Features are displayed on the Hydrology map on **page 61**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
1	On site	River	Prescot Brook (Logwood Mill Brook)	<u>GB112069060710</u>	Poor	Good	Poor	2016

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

6.5 WFD Groundwater bodies

Records on site	0
------------------------	----------

Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

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

3

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 64**

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

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



- 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 64**

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.

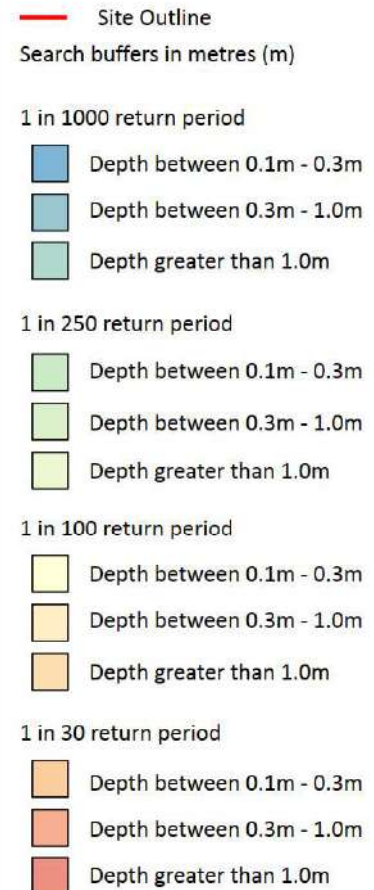
Features are displayed on the River and coastal flooding map on **page 64**

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 68**

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



— Site Outline
Search buffers in metres (m)

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

9.1 Groundwater flooding

Highest risk on site

Low

Highest risk within 50m

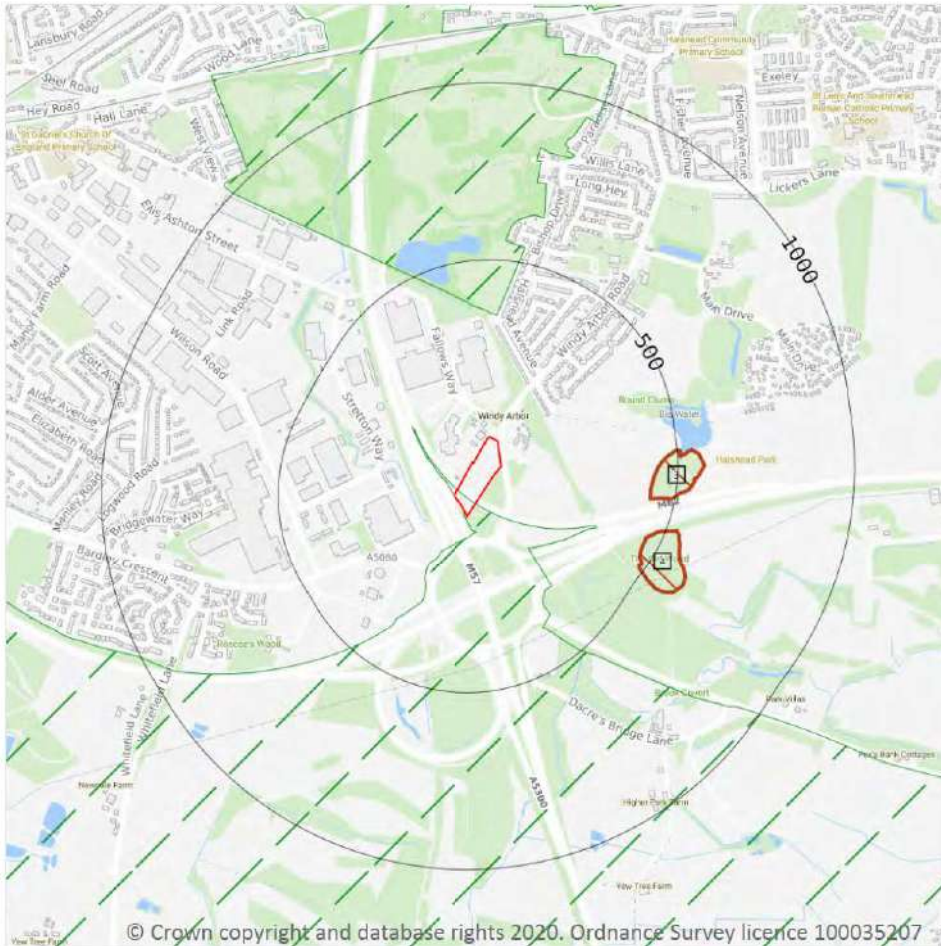
Low

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 70**

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- Designated Ancient Woodland
- Green Belt

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

0

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.

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**0**

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.

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

10.4 Special Protection Areas (SPA)

Records within 2000m**0**

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m**0**

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

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



10.6 Local Nature Reserves (LNR)

Records within 2000m**0**

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

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

10.7 Designated Ancient Woodland

Records within 2000m**2**

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 71**

ID	Location	Name	Woodland Type
3	429m E	The Old Wood	Ancient & Semi-Natural Woodland
4	457m SE	The Old Wood	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

4

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

Features are displayed on the Environmental designations map on **page 71**

ID	Location	Name	Local Authority name
1	On site	Liverpool and Manchester	Knowsley
2	344m N	Liverpool and Manchester	Knowsley
-	1389m E	Liverpool and Manchester	St Helens
-	1671m W	Liverpool and Manchester	Liverpool

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

2

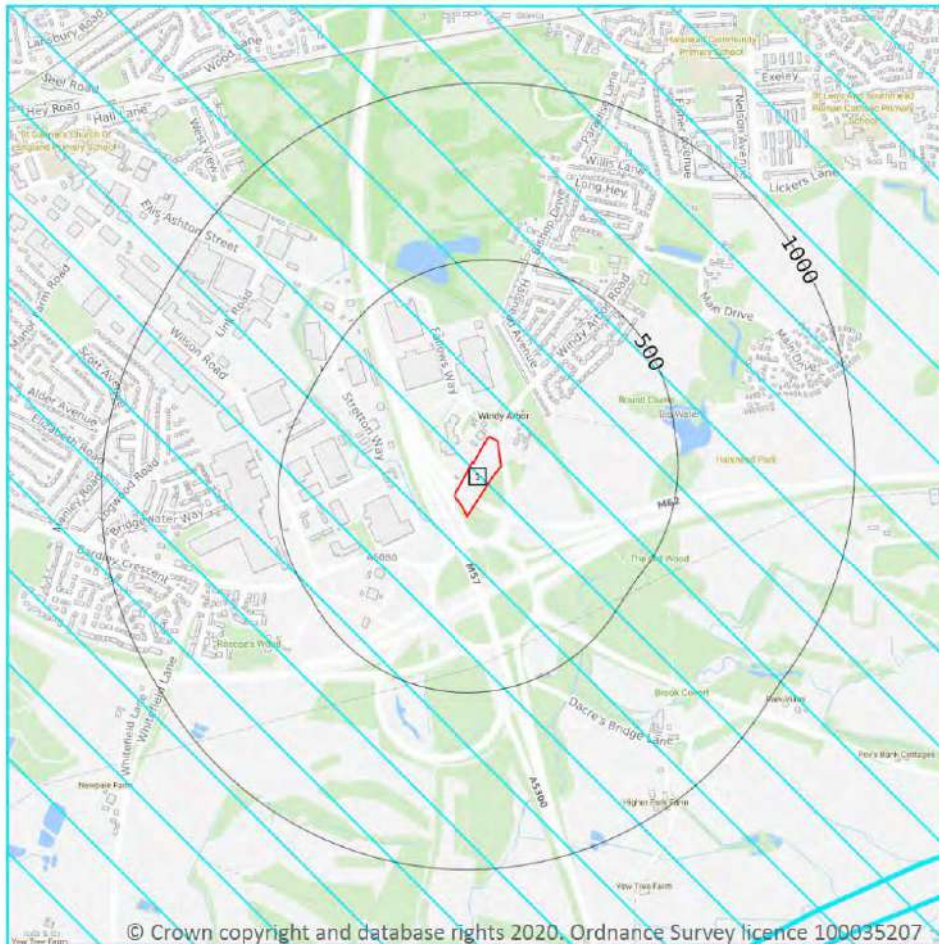
Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
On site	Dittton Brook (Halewood to Mersey Estuary) NVZ	Surface Water	S640	Existing
1452m N	ALT NVZ	Surface Water	S642	Existing

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 76**

ID	Location	Type of developments requiring consultation
1	On site	Infrastructure - Airports, helipads and other aviation proposals. Wind and Solar - Solar schemes with footprint > 0.5ha, all wind turbines. Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons > 4000m². 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. Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill. Discharges - Any discharge of water or liquid waste of more than 20m³/day to ground (ie to seep away) or to surface water, such as a beck or stream (NB This does not include discharges to mains sewer which are unlikely to pose a risk at this location).

This data is sourced from Natural England.

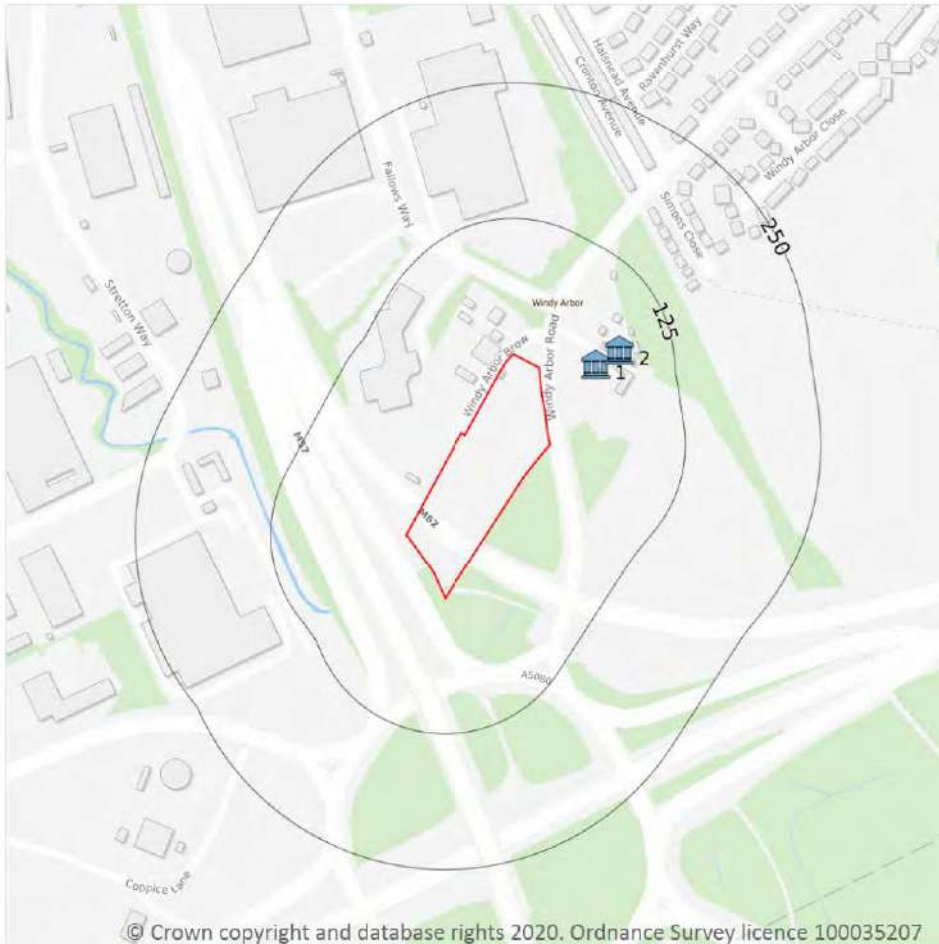
10.18 SSSI Units

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



- Site Outline
- Search buffers in metres (m)
- Listed buildings
- Conservation areas
- Conservation areas - no data
- National Parks
- Areas of Outstanding Natural Beauty
- Registered parks and gardens
- Scheduled Monuments
- World Heritage Sites

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 78**

ID	Location	Name	Grade	Reference Number	Listed date
1	52m E	Carr House Farmhouse, Whiston, Knowsley, L35	II	1253441	28/01/1971
2	76m E	The Paddocks And The Stables, Whiston, Knowsley, L35	II	1253505	05/02/1991

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

11.7 Registered Parks and Gardens

Records within 250m

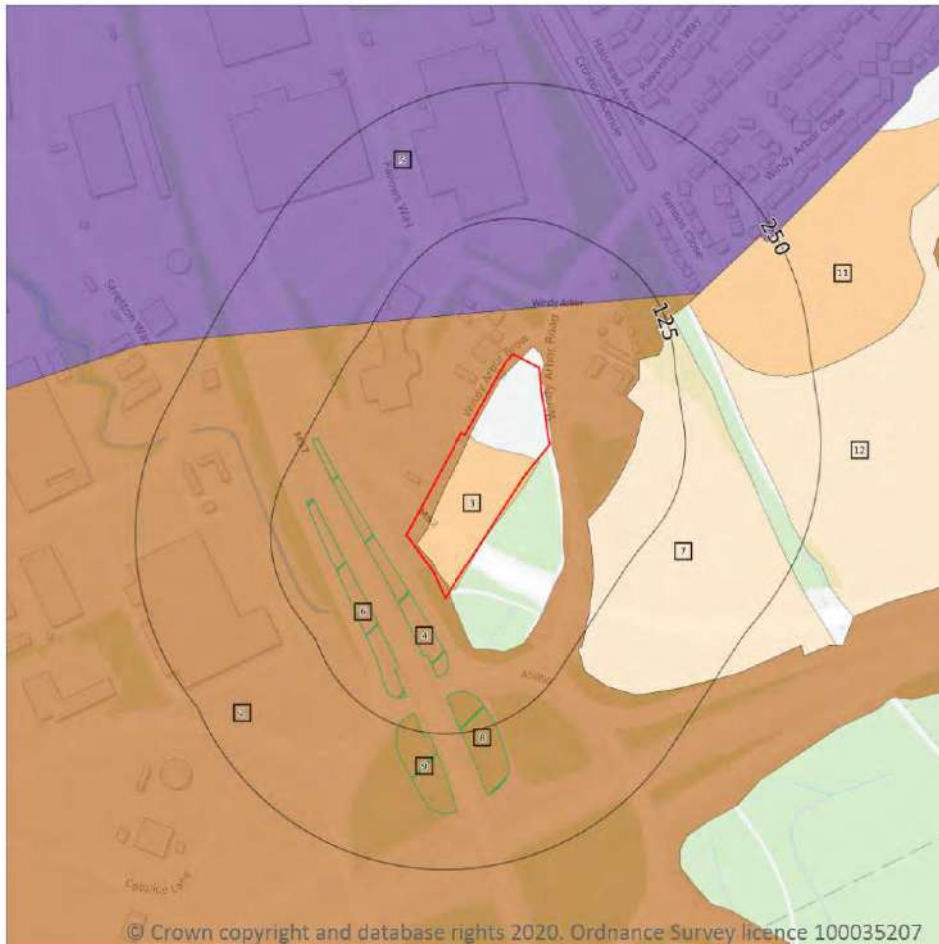
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Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process,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

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



12 Agricultural designations



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

12.1 Agricultural Land Classification

Records within 250m

6

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 81**

ID	Location	Classification	Description
2	On site	Grade 2	Very good quality agricultural land. Land with minor limitations which affect crop yield, cultivations or harvesting. A wide range of agricultural and horticultural crops can usually be grown but on some land in the grade there may be reduced flexibility due to difficulties with the production of the more demanding crops such as winter harvested vegetables and arable root crops. The level of yield is generally high but may be lower or more variable than Grade 1.
3	On site	Grade 3a	Good quality agricultural land. Land capable of consistently producing moderate to high yields of a narrow range of arable crops, especially cereals, or moderate yields of a wide range of crops including cereals, grass, oilseed rape, potatoes, sugar beet and the less demanding horticultural crops.
5	41m N	Urban	-
7	70m SE	Grade 3b	Moderate quality agricultural land. Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.
11	151m NE	Grade 3a	Good quality agricultural land. Land capable of consistently producing moderate to high yields of a narrow range of arable crops, especially cereals, or moderate yields of a wide range of crops including cereals, grass, oilseed rape, potatoes, sugar beet and the less demanding horticultural crops.
12	156m E	Grade 3b	Moderate quality agricultural land. Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.

This data is sourced from Natural England.

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

4

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.

Features are displayed on the Agricultural designations map on **page 81**



ID	Location	Description	Reference	Application date
4	26m SW	Selective Fell/Thin (Unconditional)	010/122/09-10	17/12/2009
6	61m SW	Selective Fell/Thin (Unconditional)	010/122/09-10	17/12/2009
8	87m S	Selective Fell/Thin (Unconditional)	010/122/09-10	17/12/2009
9	110m S	Selective Fell/Thin (Unconditional)	010/122/09-10	17/12/2009

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.

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m

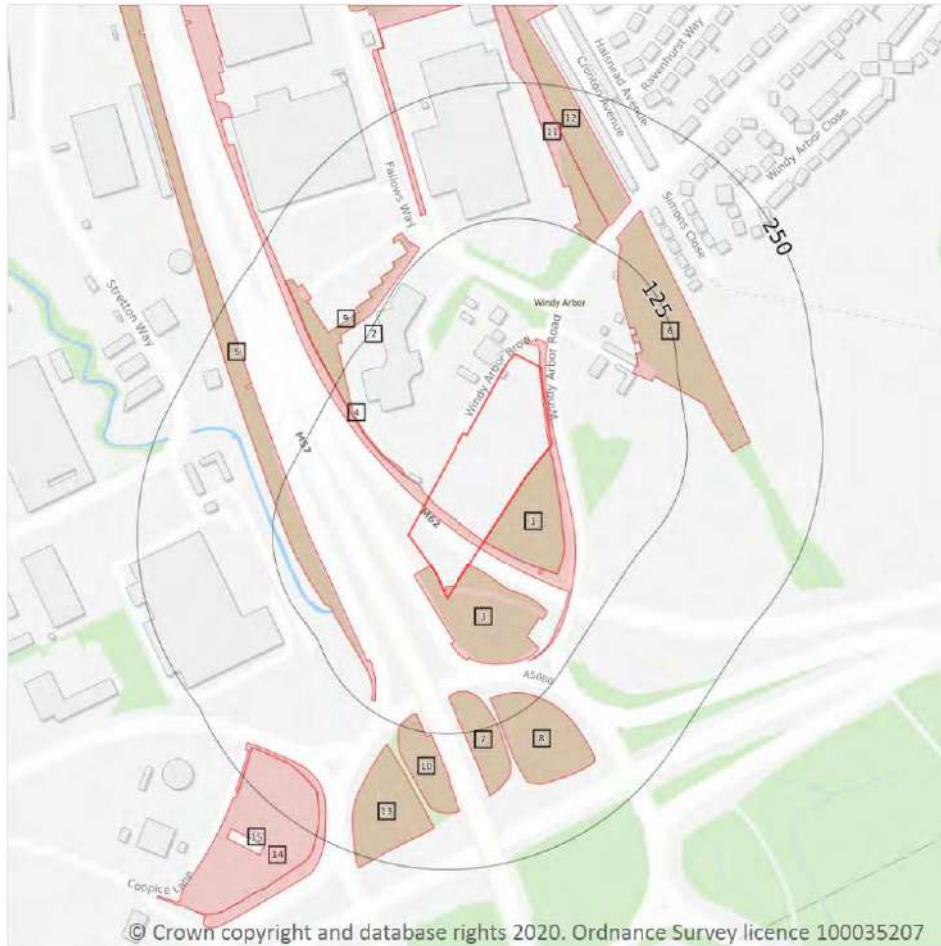
0

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



- Site Outline
- Search buffers in metres (m)
- Priority Habitat Inventory
- Open Mosaic Habitat
- Limestone Pavement Orders
- Habitat Networks
- Primary Habitat
- Restorable Habitat
- Associated Habitats
- Habitat Restoration-Creation
- Network Enhancement Zone 1
- Network Enhancement Zone 2

13.1 Priority Habitat Inventory

Records within 250m

15

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

Features are displayed on the Habitat designations map on **page 84**

ID	Location	Main Habitat	Other habitats
1	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	On site	No main habitat but additional habitats present	Additional: DWOOD (INV 50%)
3	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	27m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)



ID	Location	Main Habitat	Other habitats
5	83m SW	No main habitat but additional habitats present	Additional: DWOOD (INV 50%)
6	84m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
7	87m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
8	100m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
9	104m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
10	110m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
11	125m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
12	145m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
13	146m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
14	204m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
15	210m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

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

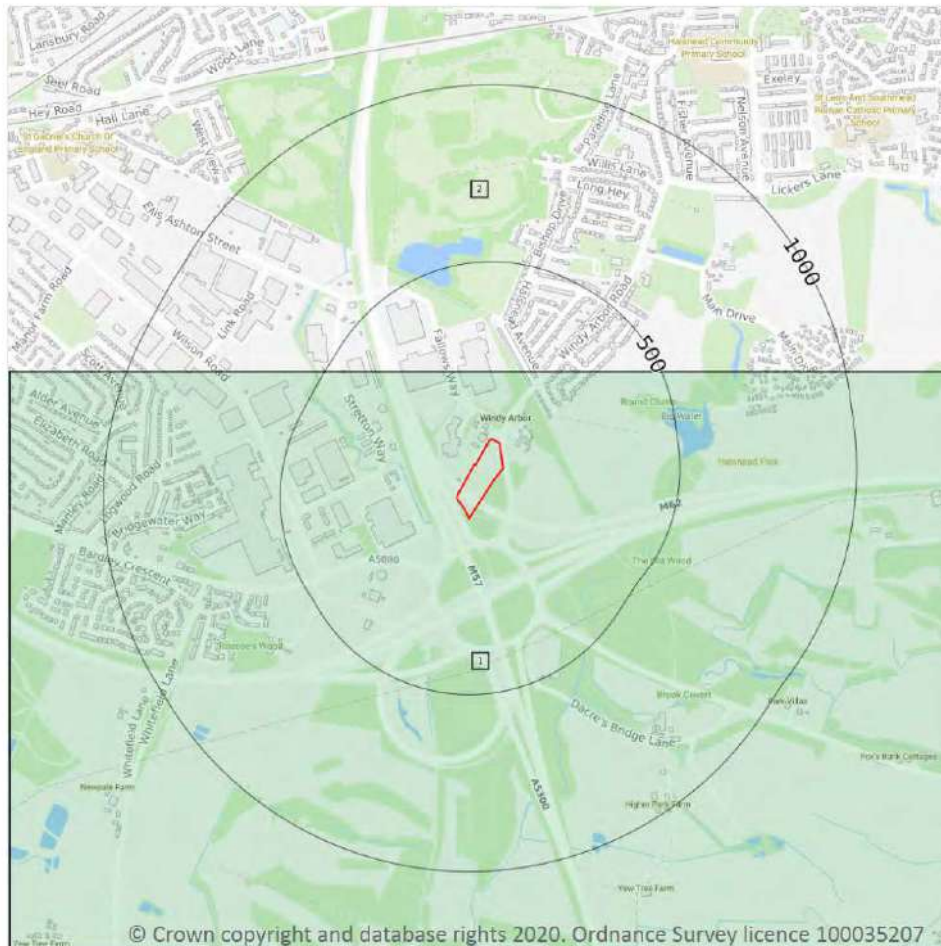
0

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

2

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

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 87**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	No coverage	SJ48NE
2	189m N	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

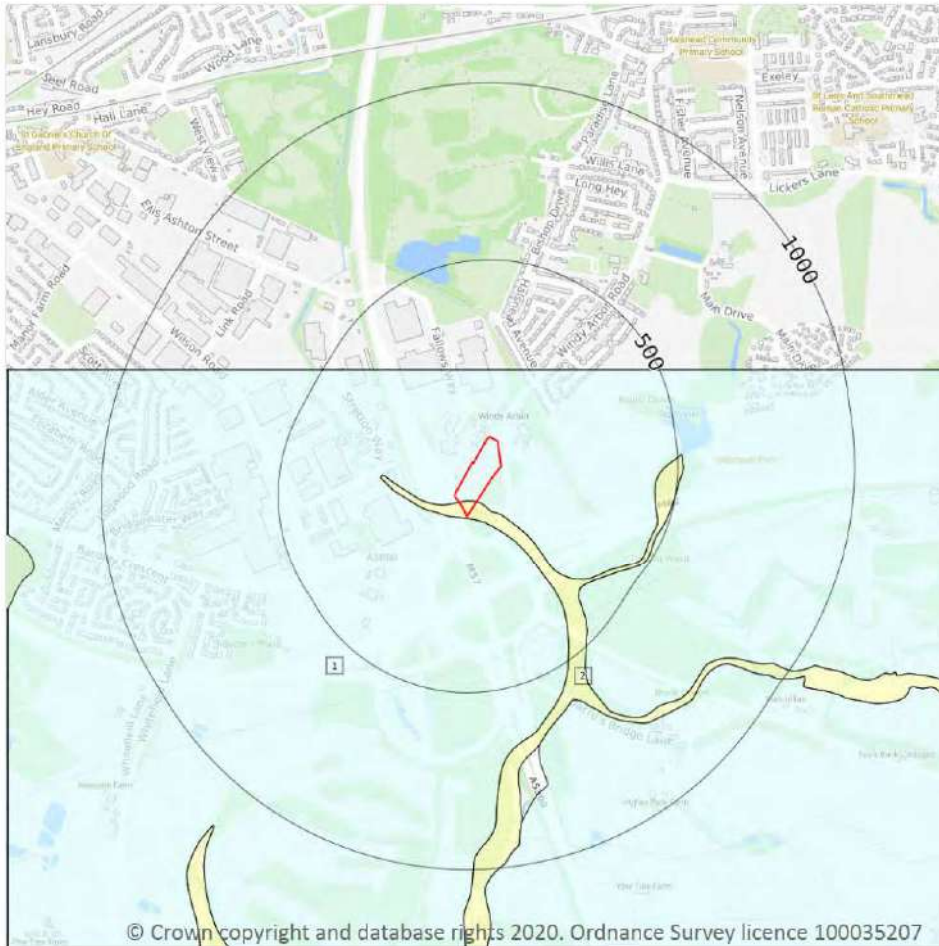
0

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



Site Outline

Search buffers in metres (m)

Landslip (10k)

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

14.3 Superficial geology (10k)

Records within 500m

2

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

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 89**

ID	Location	LEX Code	Description	Rock description
1	On site	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
2	On site	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel

This data is sourced from the British Geological Survey.



14.4 Landslip (10k)

Records within 500m

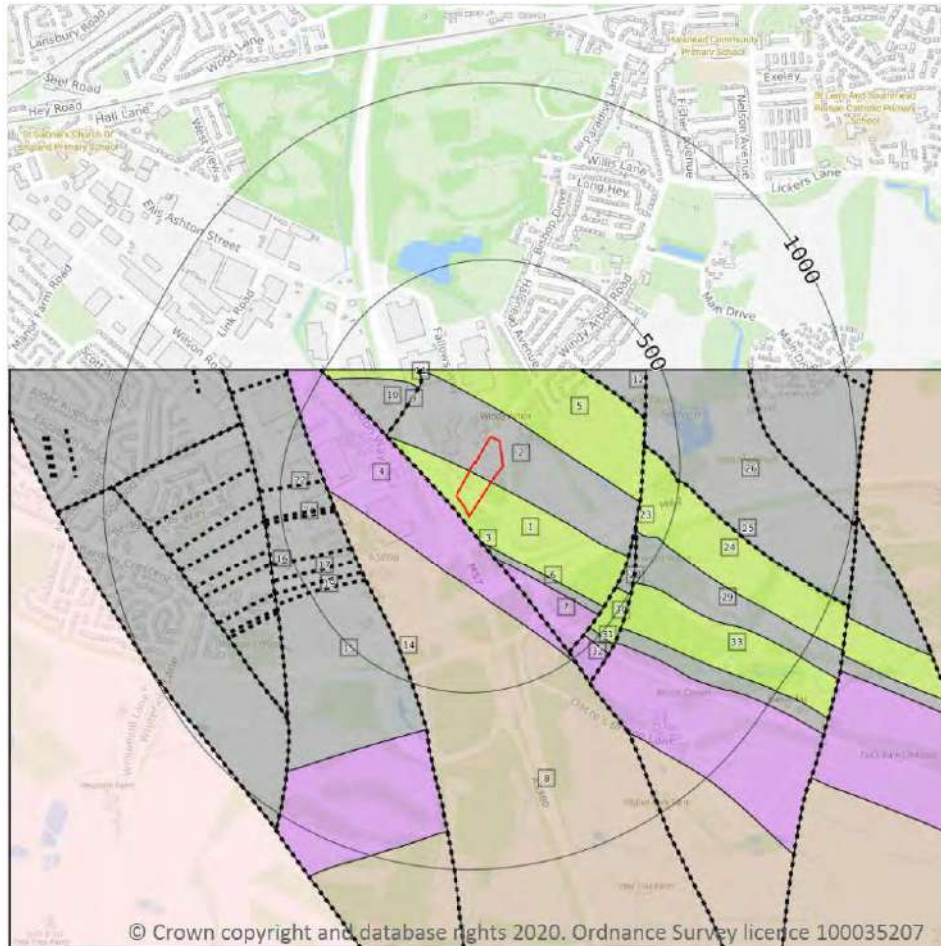
0

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

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

.... Bedrock faults and other linear features (10k)

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

14.5 Bedrock geology (10k)

Records within 500m

19

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

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 91**

ID	Location	LEX Code	Description	Rock age
1	On site	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
2	On site	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age



ID	Location	LEX Code	Description	Rock age
4	19m SW	ETM-MDSC	Etruria Formation - Mudstone, Sandstone And Conglomerate	Westphalian Age
5	74m NE	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
6	80m SE	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
7	137m SE	ETM-MDSC	Etruria Formation - Mudstone, Sandstone And Conglomerate	Westphalian Age
8	167m SW	KNSF-SDST	Kinnerton Sandstone Formation - Sandstone	Early Triassic Epoch
10	247m NW	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
11	247m NW	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
12	306m NE	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
15	332m SW	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
24	394m E	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
26	402m E	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
28	411m SE	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
29	417m SE	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
30	459m SE	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
31	465m SE	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
32	468m SE	ETM-MDSC	Etruria Formation - Mudstone, Sandstone And Conglomerate	Westphalian Age
33	493m SE	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovia Sub-age - Duckmantian Sub-age

This data is sourced from the British Geological Survey.



14.6 Bedrock faults and other linear features (10k)

Records within 500m

14

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

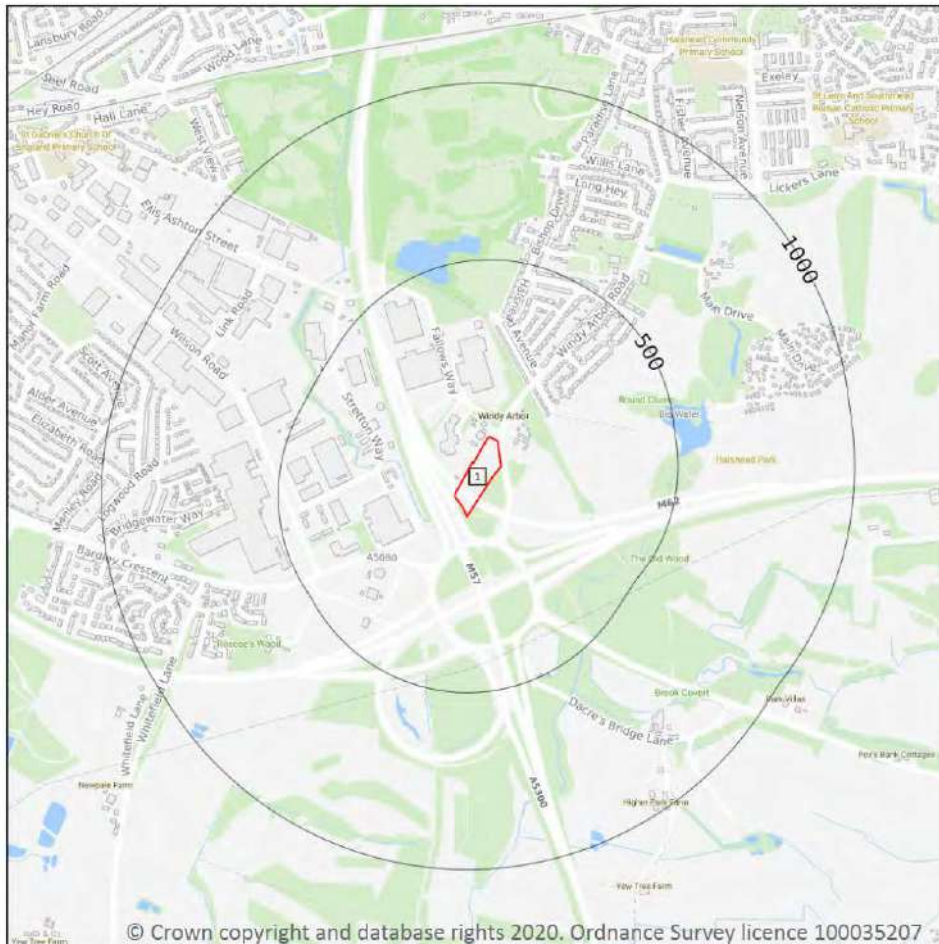
Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 91**

ID	Location	Category	Description
3	19m SW	FAULT	Normal fault, inferred; crossmarks on downthrow side
9	247m NW	FAULT	Normal fault, observed; crossmark on downthrow side
13	306m NE	ROCK	Coal seam, inferred (Coal_Inf+BedRock)
14	332m SW	FAULT	Normal fault, inferred; crossmarks on downthrow side
16	333m SW	ROCK	Coal seam, inferred (None)
17	337m SW	ROCK	Coal seam, inferred (None)
18	343m SW	ROCK	Coal seam, inferred (None)
19	345m SW	ROCK	Coal seam, inferred (None)
20	345m W	ROCK	Coal seam, inferred (None)
21	348m W	ROCK	Coal seam, inferred (None)
22	379m W	ROCK	Coal seam, inferred (None)
23	394m E	FAULT	Normal fault, observed; crossmark on downthrow side
25	402m E	ROCK	Coal seam, observed (Coal_Obs+BedRock)
27	411m SE	FAULT	Normal fault, observed; crossmark on downthrow side

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.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 94**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	No coverage	EW097_runcorn_v4

This data is sourced from the British Geological Survey.



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

15.2 Artificial and made ground (50k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

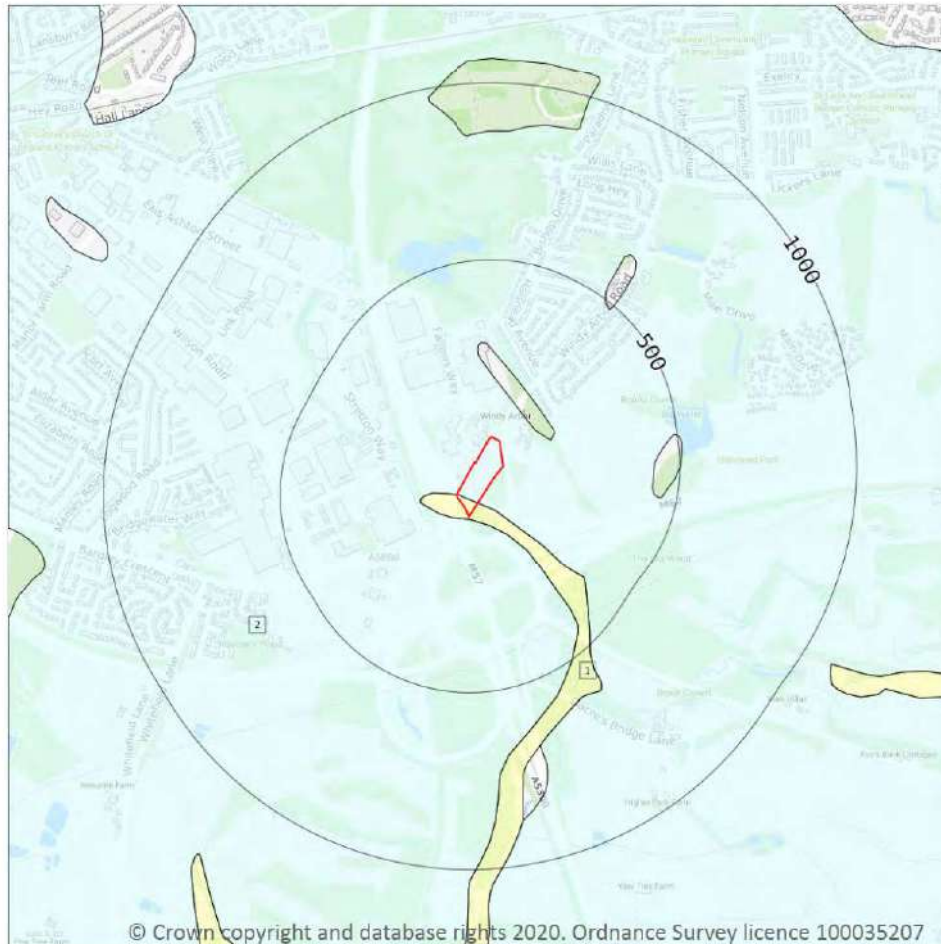
0

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



Site Outline
Search buffers in metres (m)

Landslip (50k)

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

15.4 Superficial geology (50k)

Records within 500m

2

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 96**

ID	Location	LEX Code	Description	Rock description
1	On site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
2	On site	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON

This data is sourced from the British Geological Survey.



15.5 Superficial permeability (50k)

Records within 50m**2**

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any 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	Intergranular	High	Very Low

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m**0**

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

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

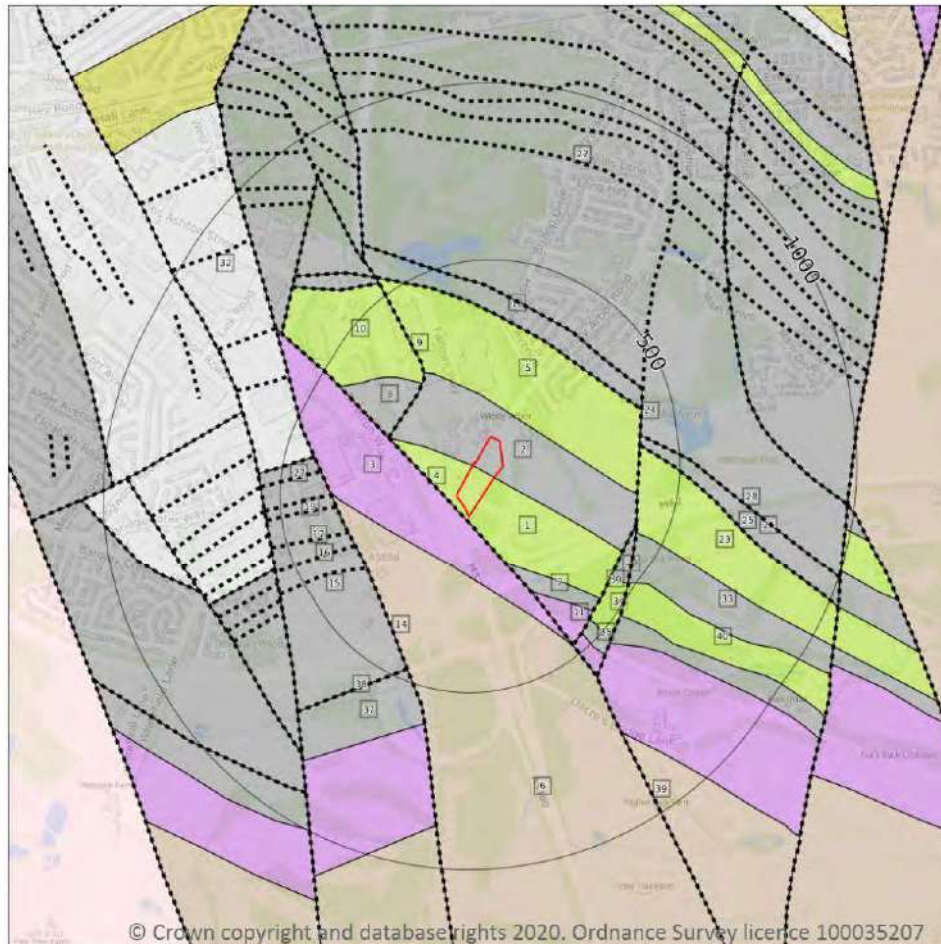
Records within 50m**0**

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

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

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

15.8 Bedrock geology (50k)

Records within 500m

22

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 98**

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



ID	Location	LEX Code	Description	Rock age
3	12m SW	ETM-MDSC	ETRURIA FORMATION - MUDSTONE, SANDSTONE AND CONGLOMERATE	WESTPHALIAN
5	81m NE	PMCM-SDST	PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
6	147m SW	KNSF-SDST	KINNERTON SANDSTONE FORMATION - SANDSTONE	-
7	167m SE	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
8	240m NW	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
10	249m NW	PMCM-SDST	PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
11	278m SE	ETM-MDSC	ETRURIA FORMATION - MUDSTONE, SANDSTONE AND CONGLOMERATE	WESTPHALIAN
12	304m NE	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
15	320m SW	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
22	368m NE	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
23	383m E	PMCM-SDST	PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
26	391m E	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
29	410m SE	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
32	418m W	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
33	421m SE	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
34	431m SE	PMCM-SDST	PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
35	450m SE	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
36	460m SE	ETM-MDSC	ETRURIA FORMATION - MUDSTONE, SANDSTONE AND CONGLOMERATE	WESTPHALIAN
37	468m S	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN



ID	Location	LEX Code	Description	Rock age
40	483m SE	PMCM-SDST	PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m

3

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
12m SE	Fracture	Moderate	Low

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m

18

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 98**

ID	Location	Category	Description
4	12m SW	FAULT	Fault, inferred
9	240m NW	FAULT	Fault, observed
13	304m NE	ROCK	Coal seam, inferred
14	320m SW	FAULT	Fault, inferred
16	320m SW	ROCK	Coal seam, inferred
17	325m W	ROCK	Coal seam, inferred
18	325m SW	ROCK	Coal seam, inferred
19	343m W	ROCK	Coal seam, inferred



ID	Location	Category	Description
20	356m W	ROCK	Coal seam, inferred
21	368m NE	FOSSIL_HORIZON	Marine band
24	383m E	FAULT	Fault, observed
25	391m E	ROCK	Coal seam, inferred
27	392m W	ROCK	Coal seam, inferred
28	396m E	FOSSIL_HORIZON	Marine band
30	410m SE	FAULT	Fault, inferred, displacement unknown
31	418m W	FOSSIL_HORIZON	Marine band
38	468m S	FOSSIL_HORIZON	Marine band
39	470m SE	FAULT	Fault, inferred

This data is sourced from the British Geological Survey.

