

PURFLEET INDUSTRIAL PARK, KERRY AVENUE, PURFLEET-ON-THAMES, THURROCK, RM15 4YA

Order Details

Date: 28/04/2025
Your ref: K529.1 Recorra
Our Ref: GS-H6F-IM9-97V-T91

Site Details

Location: 555134 179569
Area: 1.24 ha
Authority: [Thurrock Council](#) ↗



Summary of findings

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Aerial image

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OS MasterMap site plan

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[Insight User Guide](#) ↗

Contact us with any questions at:

info@groundsure.com ↗

01273 257 755

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
15 >	1.1 >	Historical industrial land uses >	4	2	42	47	-
19 >	1.2 >	Historical tanks >	4	2	3	5	-
20 >	1.3 >	Historical energy features >	3	0	9	14	-
21	1.4	Historical petrol stations	0	0	0	0	-
21 >	1.5 >	Historical garages >	0	0	7	0	-
22	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped >	On site	0-50m	50-250m	250-500m	500-2000m
23 >	2.1 >	Historical industrial land uses >	11	4	63	62	-
29 >	2.2 >	Historical tanks >	5	4	6	7	-
30 >	2.3 >	Historical energy features >	4	0	11	23	-
31	2.4	Historical petrol stations	0	0	0	0	-
31 >	2.5 >	Historical garages >	0	0	9	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
33	3.1	Active or recent landfill	0	0	0	0	-
33	3.2	Historical landfill (BGS records)	0	0	0	0	-
34	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
34 >	3.4 >	Historical landfill (EA/NRW records) >	0	0	1	0	-
34 >	3.5 >	Historical waste sites >	1	0	0	0	-
35 >	3.6 >	Licensed waste sites >	4	0	4	8	-
40 >	3.7 >	Waste exemptions >	1	0	10	33	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
45 >	4.1 >	Recent industrial land uses >	0	1	24	-	-
47	4.2	Current or recent petrol stations	0	0	0	0	-
47	4.3	Electricity cables	0	0	0	0	-
47	4.4	Gas pipelines	0	0	0	0	-
48	4.5	Sites determined as Contaminated Land	0	0	0	0	-



48	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
48	4.7	Regulated explosive sites	0	0	0	0	-
48	4.8	Hazardous substance storage/usage	0	0	0	0	-
48	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
49	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
49 >	4.11 >	Licensed pollutant release (Part A(2)/B) >	0	0	0	1	-
49	4.12	Radioactive Substance Authorisations	0	0	0	0	-
49 >	4.13 >	Licensed Discharges to controlled waters >	0	0	2	1	-
50	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
50	4.15	Pollutant release to public sewer	0	0	0	0	-
50	4.16	List 1 Dangerous Substances	0	0	0	0	-
51	4.17	List 2 Dangerous Substances	0	0	0	0	-
51 >	4.18 >	Pollution Incidents (EA/NRW) >	0	0	6	24	-
54	4.19	Pollution inventory substances	0	0	0	0	-
55	4.20	Pollution inventory waste transfers	0	0	0	0	-
55	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology >	On site	0-50m	50-250m	250-500m	500-2000m
56 >	5.1 >	Superficial aquifer >	Identified (within 500m)				
58 >	5.2 >	Bedrock aquifer >	Identified (within 500m)				
60 >	5.3 >	Groundwater vulnerability >	Identified (within 50m)				
61 >	5.4 >	Groundwater vulnerability- soluble rock risk >	Identified (within 0m)				
61	5.5	Groundwater vulnerability- local information	None (within 0m)				
62 >	5.6 >	Groundwater abstractions >	0	0	0	0	6
64 >	5.7 >	Surface water abstractions >	0	0	0	2	15
68	5.8	Potable abstractions	0	0	0	0	0
69	5.9	Source Protection Zones	0	0	0	0	-
69	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology >	On site	0-50m	50-250m	250-500m	500-2000m
70 >	6.1 >	Water Network (OS MasterMap) >	0	0	25	-	-



73 >	6.2 >	Surface water features >	0	0	7	-	-
73 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
73 >	6.4 >	WFD Surface water bodies >	0	0	0	-	-
74 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
75 >	7.1 >	Risk of flooding from rivers and the sea >	Medium (within 50m)				
76 >	7.2 >	Historical Flood Events >	0	1	2	-	-
76	7.3	Flood Defences	0	0	0	-	-
77 >	7.4 >	Areas Benefiting from Flood Defences >	1	0	3	-	-
77	7.5	Flood Storage Areas	0	0	0	-	-
78	7.6	Flood Zone 2	None (within 50m)				
79 >	7.7 >	Flood Zone 3 >	Identified (within 50m)				
Page	Section	Surface water flooding >					
80 >	8.1 >	Surface water flooding >	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
82 >	9.1 >	Groundwater flooding >	Moderate (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
83 >	10.1 >	Sites of Special Scientific Interest (SSSI) >	0	0	1	1	4
84	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
84	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
84	10.4	Special Protection Areas (SPA)	0	0	0	0	0
85	10.5	National Nature Reserves (NNR)	0	0	0	0	0
85	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
85 >	10.7 >	Designated Ancient Woodland >	0	0	0	0	3
85	10.8	Biosphere Reserves	0	0	0	0	0
86	10.9	Forest Parks	0	0	0	0	0
86	10.10	Marine Conservation Zones	0	0	0	0	0
86 >	10.11 >	Green Belt >	0	1	0	0	3
86	10.12	Proposed Ramsar sites	0	0	0	0	0



87	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
87	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
87	10.15	Nitrate Sensitive Areas	0	0	0	0	0
87 >	10.16 >	Nitrate Vulnerable Zones >	2	0	0	0	2
89 >	10.17 >	SSSI Impact Risk Zones >	2	-	-	-	-
91 >	10.18 >	SSSI Units >	0	0	1	2	12
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
97	11.1	World Heritage Sites	0	0	0	-	-
97	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
97	11.3	National Parks	0	0	0	-	-
97	11.4	Listed Buildings	0	0	0	-	-
98	11.5	Conservation Areas	0	0	0	-	-
98	11.6	Scheduled Ancient Monuments	0	0	0	-	-
98	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
99 >	12.1 >	Agricultural Land Classification >	Grade 3 (within 250m)				
100	12.2	Open Access Land	0	0	0	-	-
100	12.3	Tree Felling Licences	0	0	0	-	-
100 >	12.4 >	Environmental Stewardship Schemes >	0	0	3	-	-
101	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
102 >	13.1 >	Priority Habitat Inventory >	0	0	22	-	-
103 >	13.2 >	Habitat Networks >	1	0	6	-	-
104	13.3	Open Mosaic Habitat	0	0	0	-	-
104	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
105 >	14.1 >	10k Availability >	Identified (within 500m)				
107 >	14.2 >	Artificial and made ground (10k) >	1	0	6	10	-
109 >	14.3 >	Superficial geology (10k) >	1	1	4	4	-

110	14.4	Landslip (10k)	0	0	0	0	-
111 >	14.5 >	Bedrock geology (10k) >	1	0	1	9	-
112	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
113 >	15.1 >	50k Availability >	Identified (within 500m)				
114 >	15.2 >	Artificial and made ground (50k) >	1	0	4	8	-
115 >	15.3 >	Artificial ground permeability (50k) >	1	0	-	-	-
116 >	15.4 >	Superficial geology (50k) >	1	1	2	5	-
117 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
117	15.6	Landslip (50k)	0	0	0	0	-
118	15.7	Landslip permeability (50k)	None (within 50m)				
119 >	15.8 >	Bedrock geology (50k) >	1	0	0	6	-
120 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
120	15.10	Bedrock faults and other linear features (50k)	0	0	0	0	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
121 >	16.1 >	BGS Boreholes >	10	5	40	-	-
Page	Section	Natural ground subsidence >					
125 >	17.1 >	Shrink swell clays >	Low (within 50m)				
126 >	17.2 >	Running sands >	Very low (within 50m)				
127 >	17.3 >	Compressible deposits >	Very low (within 50m)				
129 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
130 >	17.5 >	Landslides >	Very low (within 50m)				
131 >	17.6 >	Ground dissolution of soluble rocks >	Negligible (within 50m)				
Page	Section	Mining and ground workings >	On site	0-50m	50-250m	250-500m	500-2000m
133 >	18.1 >	BritPits >	0	0	1	5	-
135 >	18.2 >	Surface ground workings >	1	0	22	-	-
136 >	18.3 >	Underground workings >	0	0	0	1	0
136	18.4	Underground mining extents	0	0	0	0	-
136 >	18.5 >	Historical Mineral Planning Areas >	0	0	1	0	-



137 >	18.6 >	Non-coal mining >	0	2	2	6	5
138	18.7	JPB mining areas	None (within 0m)				
139	18.8	The Coal Authority non-coal mining	0	0	0	0	-
139 >	18.9 >	Researched mining >	0	0	1	1	-
139	18.10	Mining record office plans	0	0	0	0	-
139	18.11	BGS mine plans	0	0	0	0	-
140	18.12	Coal mining	None (within 0m)				
140	18.13	Brine areas	None (within 0m)				
140	18.14	Gypsum areas	None (within 0m)				
140	18.15	Tin mining	None (within 0m)				
140	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes >	On site	0-50m	50-250m	250-500m	500-2000m
141	19.1	Natural cavities	0	0	0	0	-
142 >	19.2 >	Mining cavities >	0	0	0	0	2
142	19.3	Reported recent incidents	0	0	0	0	-
142	19.4	Historical incidents	0	0	0	0	-
Page	Section	Radon >					
143 >	20.1 >	Radon >	Less than 1% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
145 >	21.1 >	BGS Estimated Background Soil Chemistry >	2	1	-	-	-
145 >	21.2 >	BGS Estimated Urban Soil Chemistry >	6	4	-	-	-
146	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects >	On site	0-50m	50-250m	250-500m	500-2000m
147	22.1	Underground railways (London)	0	0	0	-	-
147	22.2	Underground railways (Non-London)	0	0	0	-	-
148	22.3	Railway tunnels	0	0	0	-	-
148 >	22.4 >	Historical railway and tunnel features >	0	0	12	-	-
149	22.5	Royal Mail tunnels	0	0	0	-	-
149	22.6	Historical railways	0	0	0	-	-

149 >	22.7 >	Railways >	0	0	12	-	-
150	22.8	Crossrail 2	0	0	0	0	-
150	22.9	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 31/05/2021

Site Area: 1.24ha



Recent site history - 2018 aerial photograph



Capture Date: 01/09/2018

Site Area: 1.24ha



Recent site history - 2013 aerial photograph



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Capture Date: 20/04/2013

Site Area: 1.24ha



Recent site history - 2010 aerial photograph



Capture Date: 24/04/2010

Site Area: 1.24ha



Recent site history - 1999 aerial photograph

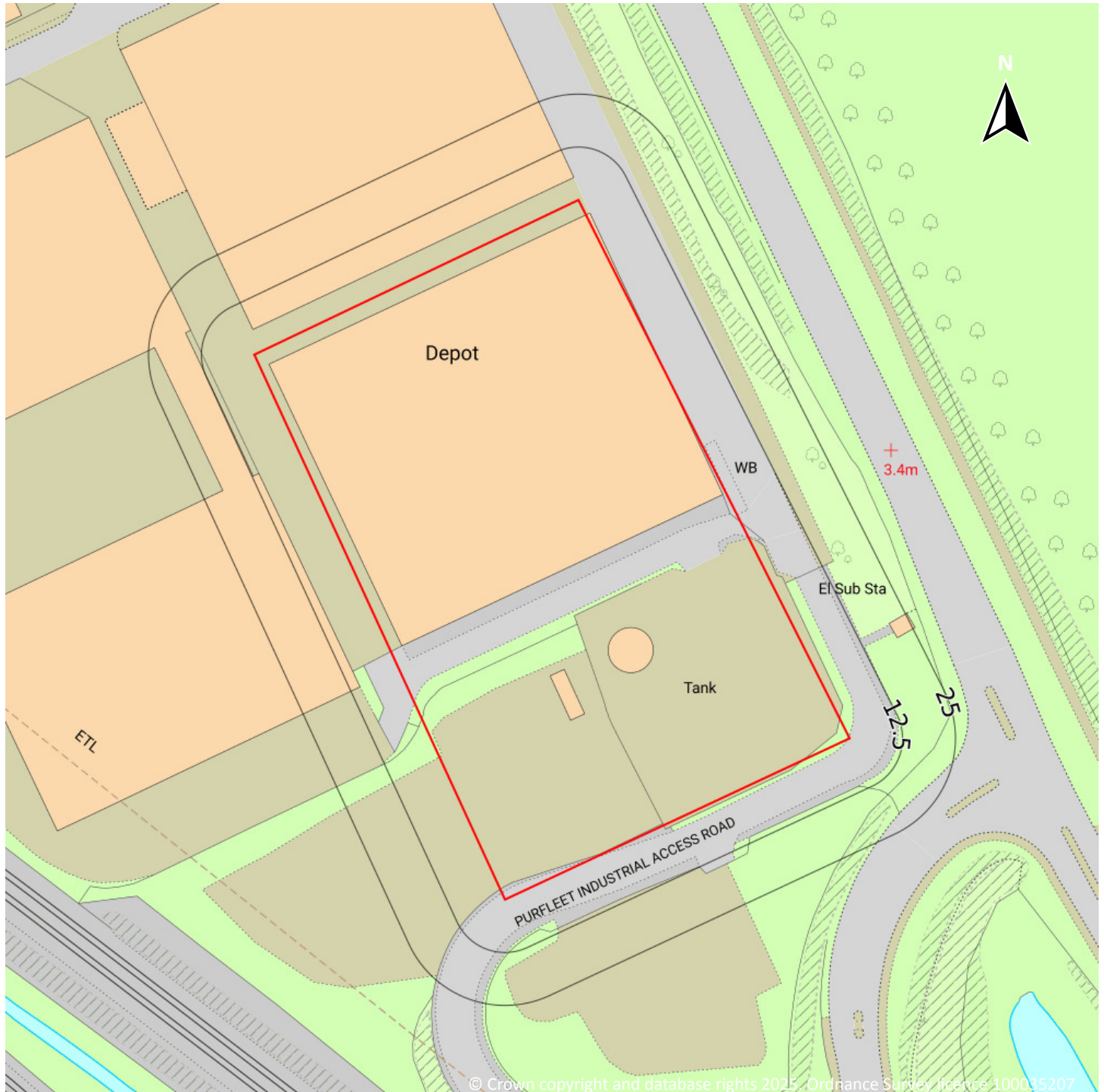


Capture Date: 03/09/1999

Site Area: 1.24ha



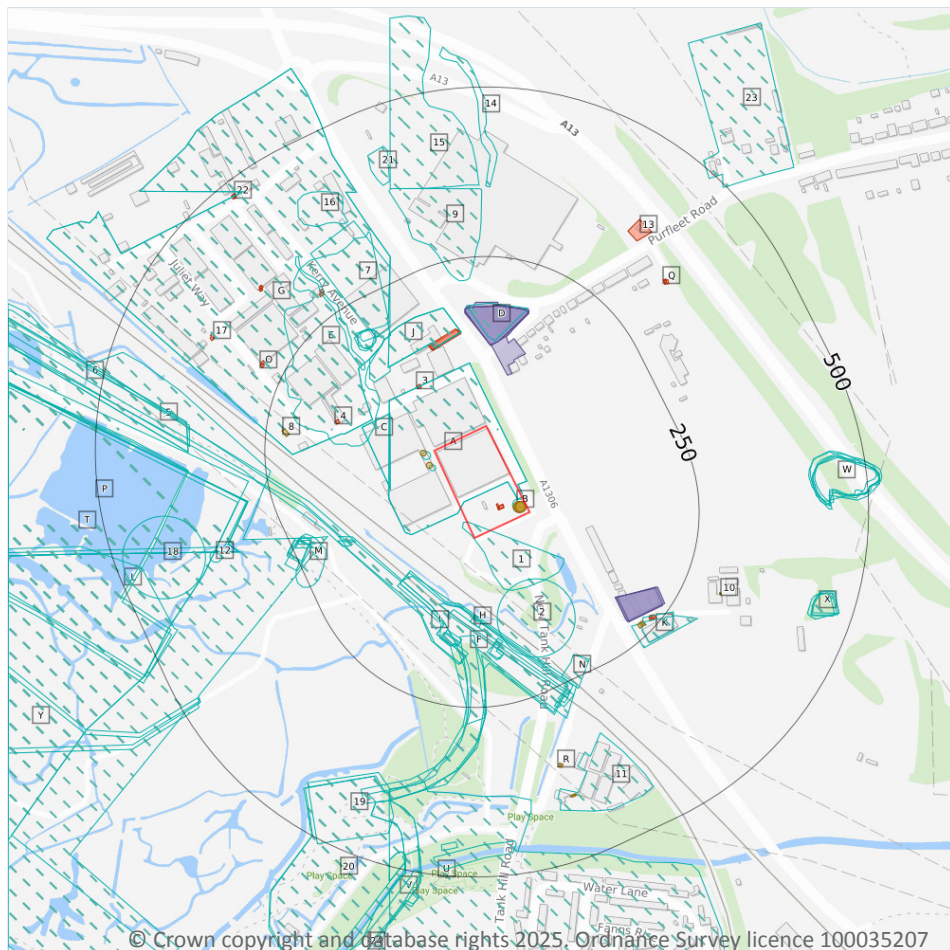
OS MasterMap site plan



Site Area: 1.24ha



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

95

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 15 >](#)

ID	Location	Land use	Dates present	Group ID
1	On site	Unspecified Heap	1986	2186839



ID	Location	Land use	Dates present	Group ID
A	On site	Unspecified Depot	1974 - 1995	2216320
A	On site	Unspecified Depot	1966	2240349
B	On site	Unspecified Tank	1966 - 1995	2300722
A	8m NW	Unspecified Tank	1993 - 1995	2277610
A	8m W	Unspecified Tank	1993 - 1995	2206949
C	65m W	Unspecified Warehouse	1973	2189557
C	65m W	Unspecified Depot	1985	2267726
2	88m S	Rifle Range	1955	2169523
E	95m NW	Old Gravel Pit	1958	2184685
F	97m S	Railway Sidings	1955	2276973
F	99m SW	Railway Sidings	1938	2282993
F	102m SW	Railway Sidings	1921	2259049
G	102m NW	Industrial Park	1995	2202374
G	102m NW	Industrial Park	1992	2202375
F	104m S	Railway Sidings	1895	2256011
F	110m S	Railway Sidings	1898	2276918
H	114m S	Railway Building	1966 - 1995	2315202
I	117m SW	Tramway Sidings	1938	2224730
I	122m SW	Tramway Sidings	1921	2246476
D	126m N	Garage	1966 - 1995	2250195
J	133m NW	Nursery	1985 - 1995	2202827
J	136m N	Nursery	1974	2323968
J	136m N	Nursery	1966	2324642
H	141m S	Railway Building	1938	2223677
F	144m S	Railway Sidings	1966	2246844
H	145m S	Railway Building	1921	2264089
H	146m S	Railway Building	1955	2210651
F	152m S	Railway Station	1938 - 1955	2238087



ID	Location	Land use	Dates present	Group ID
F	156m S	Railway Station	1921	2265670
E	158m NW	Unspecified Ground Workings	1967	2163453
5	162m SW	Tramway Sidings	1921	2307837
6	170m SW	Tramway Sidings	1921	2296650
E	178m NW	Gravel Pit	1921 - 1938	2235407
E	179m NW	Gravel Pit	1921	2278365
E	181m NW	Refuse Heap	1938	2159568
7	188m NW	Unspecified Warehouses	1973 - 1985	2317013
L	196m W	Rifle Ranges	1931 - 1940	2317936
M	206m SW	Unspecified Pit	1967 - 1973	2231570
M	217m W	Gravel Pit	1921	2193946
9	217m N	Gravel Pit	1955	2193961
N	217m SE	Gas Valve Compound	1986 - 1995	2281291
M	218m W	Refuse Heap	1938	2233358
M	220m W	Refuse Heap	1921	2224710
M	221m W	Unspecified Ground Workings	1921	2163452
M	224m W	Sand Pit	1958	2174127
K	226m SE	Telephone Exchange	1986 - 1995	2238895
K	228m SE	Telephone Exchange	1966 - 1974	2322315
N	263m S	Railway Building	1895	2195979
N	264m SE	Railway Buildings	1921	2160479
N	270m S	Railway Building	1865	2195981
L	278m W	Rifle Ranges	1985 - 1995	2256030
P	285m W	Rifle Ranges	1921	2202367
P	285m W	Rifle Ranges	1921	2202368
P	285m W	Rifle Ranges	1921	2202369
P	285m W	Rifle Ranges	1921	2202370
P	287m W	Rifle Ranges	1938	2218860



ID	Location	Land use	Dates present	Group ID
L	300m W	Rifle Ranges	1958 - 1973	2220252
11	339m SE	Unspecified Depot	1974 - 1995	2207585
12	349m W	Unspecified Level	1921	2194609
14	352m N	Unspecified Ground Workings	1967	2165269
15	355m N	Sand and Gravel Pit	1954	2183840
16	360m NW	Unspecified Pit	1958	2178843
S	361m W	Tramway Sidings	1938	2314224
S	363m W	Tramway Sidings	1931	2235939
S	363m W	Tramway Sidings	1938 - 1951	2288070
T	364m W	Rifle Ranges	1931	2203793
T	365m W	Rifle Ranges	1951	2294911
U	367m S	Barracks	1946	2212329
18	368m W	Unspecified Level	1931	2194604
19	374m S	Unspecified Commercial/Industrial	1921 - 1938	2253433
20	380m S	Unspecified Commercial/Industrial	1958 - 1973	2263007
21	386m N	Gravel Pit	1955	2194474
V	407m S	Tramway Sidings	1921	2265521
V	407m S	Tramway Sidings	1938	2310706
W	415m E	Unspecified Pit	1955 - 1986	2226404
W	417m E	Old Gravel Pit	1895 - 1898	2287109
W	419m E	Unspecified Pit	1921	2328460
W	420m E	Unspecified Pit	1938	2287850
W	421m E	Unspecified Pit	1938	2258275
W	424m E	Gravel Pit	1921	2194314
X	435m E	Unspecified Pit	1955	2272905
X	439m E	Old Sand Pit	1895 - 1898	2215535
X	439m E	Unspecified Pit	1921	2282795
X	441m E	Unspecified Pit	1938	2262615



ID	Location	Land use	Dates present	Group ID
U	449m S	Railway Building	1955	2195980
U	451m S	Cuttings	1955	2157058
L	454m SW	Rifle Ranges	1921	2304464
V	467m S	Railway Sidings	1955	2200406
Y	471m SW	Rifle Range	1951	2205676
Y	475m SW	Rifle Range	1931	2209883
V	475m S	Unspecified Heap	1955	2258240
V	475m S	Unspecified Heap	1966	2281783
23	491m NE	Unspecified Works	1954	2183105
24	497m S	Unspecified Commercial/Industrial	1938	2171275

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

14

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

Features are displayed on the Past land use map on [page 15 >](#)

ID	Location	Land use	Dates present	Group ID
B	On site	Unspecified Tank	1963	405560
B	On site	Unspecified Tank	1977	407280
B	On site	Unspecified Tank	1992 - 1999	418032
B	On site	Unspecified Tank	1981	427752
A	11m W	Unspecified Tank	1992 - 1999	415885
A	12m NW	Unspecified Tank	1992 - 1999	430476
8	215m W	Unspecified Tank	1990 - 1992	418164
K	230m SE	Unspecified Tank	1981	411830



ID	Location	Land use	Dates present	Group ID
K	230m SE	Unspecified Tank	1992 - 1999	399468
10	304m SE	Tank or Trough	1867	381603
R	355m S	Unspecified Tank	1992 - 1999	431660
R	357m S	Unspecified Tank	1981	402367
R	405m S	Unspecified Tank	1992 - 1999	414895
R	406m S	Unspecified Tank	1981	416104

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	26
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Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 15 >](#)

ID	Location	Land use	Dates present	Group ID
B	On site	Electricity Substation	1981	284371
B	On site	Electricity Substation	1977	285718
B	On site	Electricity Substation	1992 - 1999	310365
3	93m NW	Electricity Substation	1992 - 1999	280650
J	134m N	Electricity Substation	1981	293298
J	135m N	Electricity Substation	1992	297017
J	136m N	Electricity Substation	1977	317595
J	136m N	Electricity Substation	1999	284266
4	146m NW	Electricity Substation	1999	266930
K	234m SE	Electricity Substation	1977	285388
K	234m SE	Electricity Substation	1992 - 1999	292696
K	235m SE	Electricity Substation	1981	319084

ID	Location	Land use	Dates present	Group ID
O	280m NW	Electricity Substation	1990	301187
O	282m NW	Electricity Substation	1992 - 1999	286407
E	282m NW	Electricity Substation	1990	288704
E	286m NW	Electricity Substation	1992 - 1999	308481
Q	336m NE	Electricity Substation	1992 - 1999	290752
Q	337m NE	Electricity Substation	1977	303613
Q	339m NE	Electricity Substation	1981	289700
G	347m NW	Electricity Substation	1990	285866
G	347m NW	Electricity Substation	1990	303326
G	349m NW	Electricity Substation	1999	284461
G	349m NW	Electricity Substation	1992	309739
13	352m NE	Electricity Substation	1999	266931
17	364m NW	Electricity Substation	1990 - 1999	300850
22	474m NW	Electricity Substation	1990 - 1999	287405

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

7

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 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 15](#) >

ID	Location	Land use	Dates present	Group ID
D	81m N	Garage	1981	88224
D	119m N	Garage	1992 - 1999	83914
D	120m N	Garage	1977	84056
D	120m N	Garage	1963	89842
K	178m SE	Garage	1977	85867
K	179m SE	Garage	1992 - 1999	92825
K	180m SE	Garage	1981	88647

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

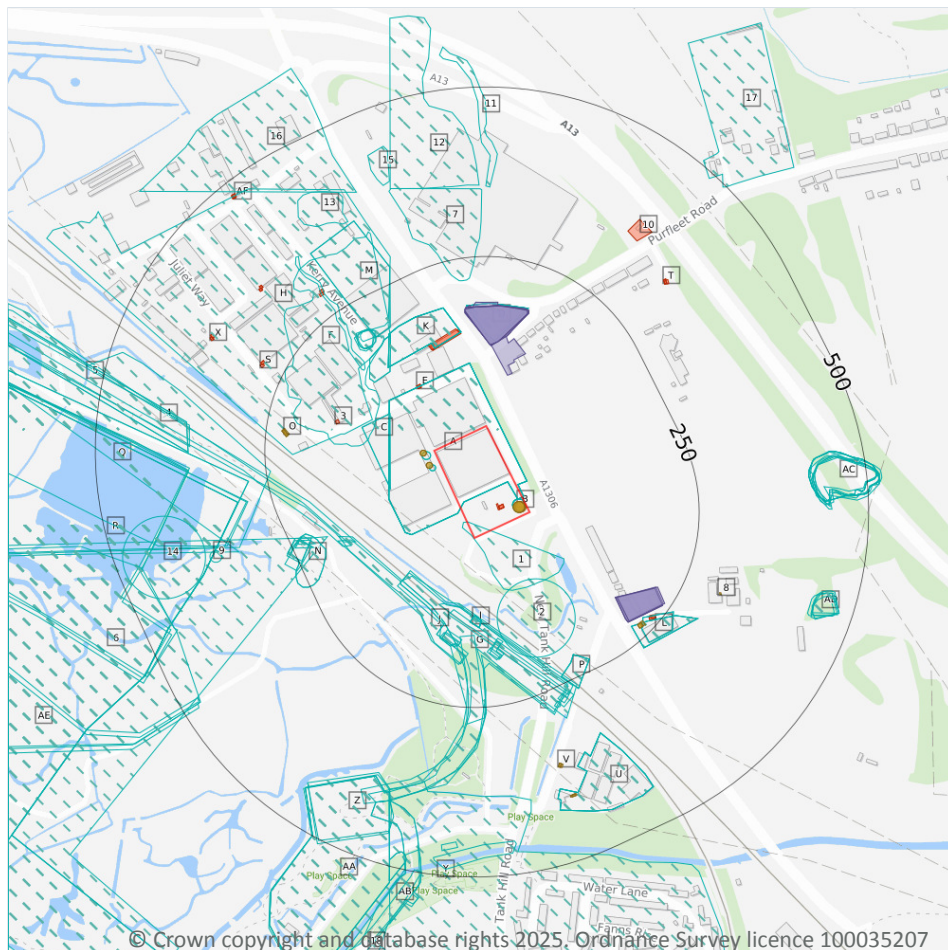
0

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

140

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

Features are displayed on the Past land use - un-grouped map on [page 23](#) >

ID	Location	Land Use	Date	Group ID
1	On site	Unspecified Heap	1986	2186839
A	On site	Unspecified Depot	1993	2216320
A	On site	Unspecified Depot	1986	2216320



ID	Location	Land Use	Date	Group ID
A	On site	Unspecified Depot	1974	2216320
A	On site	Unspecified Depot	1966	2240349
A	On site	Unspecified Depot	1995	2216320
B	On site	Unspecified Tank	1993	2300722
B	On site	Unspecified Tank	1986	2300722
B	On site	Unspecified Tank	1974	2300722
B	On site	Unspecified Tank	1966	2300722
B	On site	Unspecified Tank	1995	2300722
A	8m NW	Unspecified Tank	1993	2277610
A	8m NW	Unspecified Tank	1995	2277610
A	8m W	Unspecified Tank	1993	2206949
A	8m W	Unspecified Tank	1995	2206949
C	65m W	Unspecified Warehouse	1973	2189557
C	65m W	Unspecified Depot	1985	2267726
2	88m S	Rifle Range	1955	2169523
F	95m NW	Old Gravel Pit	1958	2184685
G	97m S	Railway Sidings	1955	2276973
G	99m SW	Railway Sidings	1938	2282993
G	102m SW	Railway Sidings	1921	2259049
H	102m NW	Industrial Park	1995	2202374
G	104m S	Railway Sidings	1895	2256011
G	110m S	Railway Sidings	1898	2276918
I	114m S	Railway Building	1993	2315202
I	114m S	Railway Building	1986	2315202
I	114m S	Railway Building	1974	2315202
I	114m S	Railway Building	1966	2315202
I	114m S	Railway Building	1995	2315202
J	117m SW	Tramway Sidings	1938	2224730



ID	Location	Land Use	Date	Group ID
J	122m SW	Tramway Sidings	1921	2246476
D	126m N	Garage	1993	2250195
D	126m N	Garage	1986	2250195
D	126m N	Garage	1974	2250195
D	126m N	Garage	1966	2250195
D	126m N	Garage	1995	2250195
F	133m NW	Nursery	1995	2202827
F	133m NW	Nursery	1985	2202827
K	136m N	Nursery	1993	2202827
K	136m N	Nursery	1986	2202827
K	136m N	Nursery	1974	2323968
K	136m N	Nursery	1966	2324642
K	136m N	Nursery	1995	2202827
I	141m S	Railway Building	1938	2223677
G	144m S	Railway Sidings	1966	2246844
I	145m S	Railway Building	1921	2264089
I	146m S	Railway Building	1955	2210651
G	152m S	Railway Station	1938	2238087
G	156m S	Railway Station	1921	2265670
F	158m NW	Unspecified Ground Workings	1967	2163453
4	162m SW	Tramway Sidings	1921	2307837
G	163m S	Railway Station	1955	2238087
5	170m SW	Tramway Sidings	1921	2296650
F	178m NW	Gravel Pit	1921	2235407
F	179m NW	Gravel Pit	1921	2278365
F	180m NW	Gravel Pit	1938	2235407
F	181m NW	Refuse Heap	1938	2159568
M	188m NW	Unspecified Warehouses	1973	2317013



ID	Location	Land Use	Date	Group ID
M	188m NW	Unspecified Warehouses	1985	2317013
6	196m W	Rifle Ranges	1938	2317936
N	206m SW	Unspecified Pit	1973	2231570
N	206m SW	Unspecified Pit	1967	2231570
N	217m W	Gravel Pit	1921	2193946
7	217m N	Gravel Pit	1955	2193961
P	217m SE	Gas Valve Compound	1993	2281291
P	217m SE	Gas Valve Compound	1986	2281291
P	217m SE	Gas Valve Compound	1995	2281291
N	218m W	Refuse Heap	1938	2233358
N	220m W	Refuse Heap	1921	2224710
N	221m W	Unspecified Ground Workings	1921	2163452
N	224m W	Sand Pit	1958	2174127
L	226m SE	Telephone Exchange	1993	2238895
L	226m SE	Telephone Exchange	1986	2238895
L	226m SE	Telephone Exchange	1995	2238895
L	228m SE	Telephone Exchange	1974	2322315
L	228m SE	Telephone Exchange	1966	2322315
Q	243m W	Rifle Ranges	1938	2317936
P	263m S	Railway Building	1895	2195979
P	264m SE	Railway Buildings	1921	2160479
P	270m S	Railway Building	1865	2195981
R	278m W	Rifle Ranges	1995	2256030
R	278m W	Rifle Ranges	1985	2256030
Q	285m W	Rifle Ranges	1921	2202368
Q	287m W	Rifle Ranges	1938	2218860
R	300m W	Rifle Ranges	1973	2220252
R	300m W	Rifle Ranges	1967	2220252



ID	Location	Land Use	Date	Group ID
R	300m W	Rifle Ranges	1958	2220252
Q	324m W	Rifle Ranges	1921	2202367
U	339m SE	Unspecified Depot	1993	2207585
U	339m SE	Unspecified Depot	1986	2207585
U	339m SE	Unspecified Depot	1974	2207585
U	339m SE	Unspecified Depot	1995	2207585
9	349m W	Unspecified Level	1921	2194609
11	352m N	Unspecified Ground Workings	1967	2165269
12	355m N	Sand and Gravel Pit	1954	2183840
13	360m NW	Unspecified Pit	1958	2178843
W	361m W	Tramway Sidings	1938	2314224
R	362m W	Rifle Ranges	1938	2317936
W	363m W	Tramway Sidings	1951	2288070
W	363m W	Tramway Sidings	1931	2235939
Q	364m W	Rifle Ranges	1931	2203793
Q	365m W	Rifle Ranges	1951	2294911
Y	367m S	Barracks	1946	2212329
14	368m W	Unspecified Level	1931	2194604
Z	374m S	Unspecified Commercial/Industrial	1938	2253433
Z	377m S	Unspecified Commercial/Industrial	1921	2253433
AA	380m S	Unspecified Commercial/Industrial	1973	2263007
AA	380m S	Unspecified Commercial/Industrial	1967	2263007
AA	380m S	Unspecified Commercial/Industrial	1958	2263007
15	386m N	Gravel Pit	1955	2194474
16	394m NW	Industrial Park	1992	2202375
AB	407m S	Tramway Sidings	1938	2310706
AB	407m S	Tramway Sidings	1921	2265521
AC	415m E	Unspecified Pit	1986	2226404



ID	Location	Land Use	Date	Group ID
AC	415m E	Unspecified Pit	1974	2226404
AC	415m E	Unspecified Pit	1966	2226404
AC	415m E	Unspecified Pit	1955	2226404
AC	417m E	Old Gravel Pit	1898	2287109
AC	418m E	Old Gravel Pit	1895	2287109
AC	419m E	Unspecified Pit	1921	2328460
AC	420m E	Unspecified Pit	1938	2287850
AC	421m E	Unspecified Pit	1938	2258275
AC	421m E	Unspecified Pit	1938	2258275
AC	424m E	Gravel Pit	1921	2194314
AD	435m E	Unspecified Pit	1955	2272905
AD	439m E	Old Sand Pit	1895	2215535
AD	439m E	Unspecified Pit	1921	2282795
AD	441m E	Old Sand Pit	1898	2215535
AD	441m E	Unspecified Pit	1938	2262615
Y	449m S	Railway Building	1955	2195980
Y	451m S	Cuttings	1955	2157058
R	454m SW	Rifle Ranges	1921	2304464
AB	467m S	Railway Sidings	1955	2200406
AE	471m SW	Rifle Range	1951	2205676
AE	475m SW	Rifle Range	1931	2209883
AB	475m S	Unspecified Heap	1966	2281783
AB	475m S	Unspecified Heap	1955	2258240
17	491m NE	Unspecified Works	1954	2183105
18	497m S	Unspecified Commercial/Industrial	1938	2171275

This data is sourced from Ordnance Survey / Groundsure.



2.2 Historical tanks

Records within 500m

22

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
B	On site	Unspecified Tank	1963	405560
B	On site	Unspecified Tank	1977	407280
B	On site	Unspecified Tank	1981	427752
B	On site	Unspecified Tank	1992	418032
B	On site	Unspecified Tank	1999	418032
A	11m W	Unspecified Tank	1992	415885
A	11m W	Unspecified Tank	1999	415885
A	12m NW	Unspecified Tank	1992	430476
A	12m NW	Unspecified Tank	1999	430476
O	215m W	Unspecified Tank	1992	418164
O	217m W	Unspecified Tank	1990	418164
O	217m W	Unspecified Tank	1990	418164
L	230m SE	Unspecified Tank	1981	411830
L	230m SE	Unspecified Tank	1992	399468
L	230m SE	Unspecified Tank	1999	399468
8	304m SE	Tank or Trough	1867	381603
V	355m S	Unspecified Tank	1992	431660
V	355m S	Unspecified Tank	1999	431660
V	357m S	Unspecified Tank	1981	402367
V	405m S	Unspecified Tank	1992	414895
V	405m S	Unspecified Tank	1999	414895
V	406m S	Unspecified Tank	1981	416104

This data is sourced from Ordnance Survey / Groundsure.



2.3 Historical energy features

Records within 500m

38

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
B	On site	Electricity Substation	1977	285718
B	On site	Electricity Substation	1981	284371
B	On site	Electricity Substation	1992	310365
B	On site	Electricity Substation	1999	310365
E	93m NW	Electricity Substation	1992	280650
E	93m NW	Electricity Substation	1999	280650
K	134m N	Electricity Substation	1981	293298
K	135m N	Electricity Substation	1992	297017
K	136m N	Electricity Substation	1977	317595
K	136m N	Electricity Substation	1999	284266
3	146m NW	Electricity Substation	1999	266930
L	234m SE	Electricity Substation	1977	285388
L	234m SE	Electricity Substation	1992	292696
L	234m SE	Electricity Substation	1999	292696
L	235m SE	Electricity Substation	1981	319084
S	280m NW	Electricity Substation	1990	301187
S	282m NW	Electricity Substation	1999	286407
S	282m NW	Electricity Substation	1992	286407
F	282m NW	Electricity Substation	1990	288704
F	286m NW	Electricity Substation	1999	308481
F	286m NW	Electricity Substation	1992	308481
T	336m NE	Electricity Substation	1992	290752
T	336m NE	Electricity Substation	1999	290752



ID	Location	Land Use	Date	Group ID
T	337m NE	Electricity Substation	1977	303613
T	339m NE	Electricity Substation	1981	289700
H	347m NW	Electricity Substation	1990	285866
H	347m NW	Electricity Substation	1990	303326
H	349m NW	Electricity Substation	1999	284461
H	349m NW	Electricity Substation	1992	309739
10	352m NE	Electricity Substation	1999	266931
X	364m NW	Electricity Substation	1990	300850
X	364m NW	Electricity Substation	1990	300850
X	365m NW	Electricity Substation	1999	300850
X	365m NW	Electricity Substation	1992	300850
AF	474m NW	Electricity Substation	1990	287405
AF	474m NW	Electricity Substation	1990	287405
AF	475m NW	Electricity Substation	1999	287405
AF	475m NW	Electricity Substation	1992	287405

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

9

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](#) >

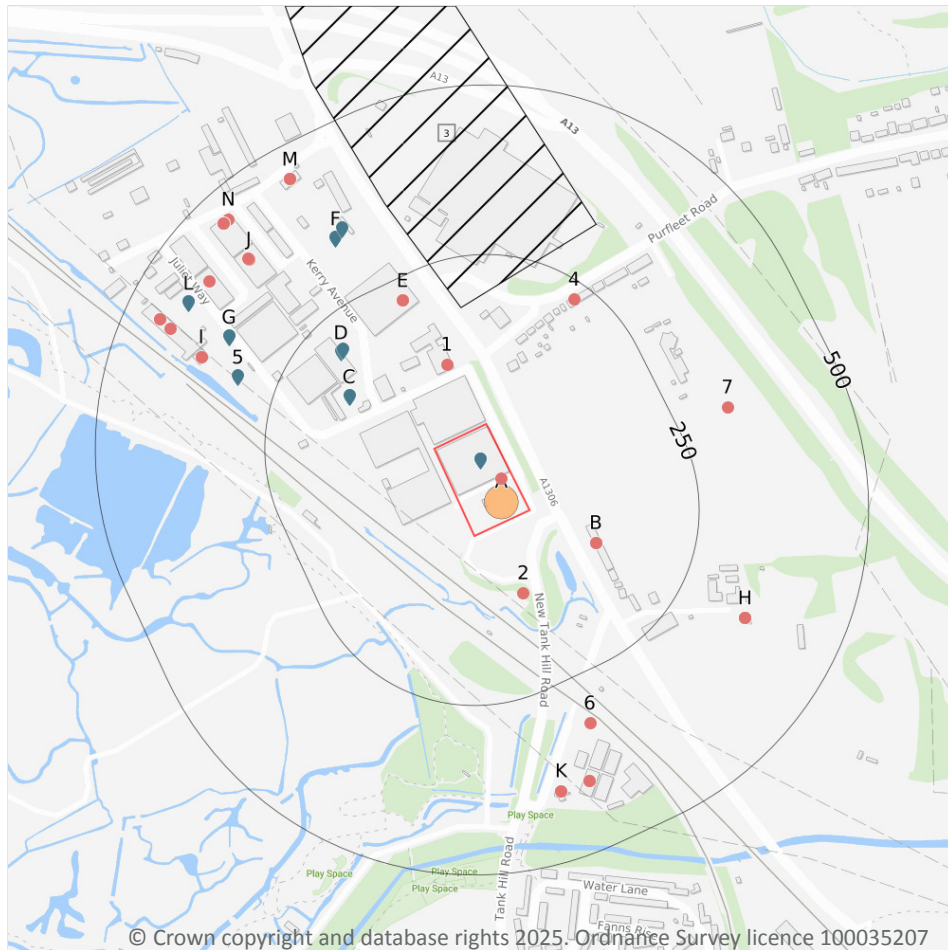


ID	Location	Land Use	Date	Group ID
D	81m N	Garage	1981	88224
D	119m N	Garage	1992	83914
D	119m N	Garage	1999	83914
D	120m N	Garage	1963	89842
D	120m N	Garage	1977	84056
L	178m SE	Garage	1977	85867
L	179m SE	Garage	1992	92825
L	179m SE	Garage	1999	92825
L	180m SE	Garage	1981	88647

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 33 >](#)

ID	Location	Details		
3	176m N	Site Address: Sandy Lane, Aveley, South Ockendon, Essex Licence Holder Address: -	Waste Licence: - Site Reference: THU074 Waste Type: Commercial, Household Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: Greater London Council Licence Holder: - First Recorded - Last Recorded: -

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

3.5 Historical waste sites

Records within 500m

1

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 33 >](#)

ID	Location	Address	Further Details	Date
A	On site	Site Address: London Road, Porfleet Industrial Park, SOUTH OCKENDON, Essex, RM15 4YB	Type of Site: Recycling Operations Planning application reference: 04/01340/FUL Description: Scheme comprises construction of steel frame, steel clad building to enclose recycling operations. An application (ref: 04/01340/FUL) for Detailed Planning permission was refused by Thurrock B.C. on 24th February 2005. 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	16
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Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

Features are displayed on the Waste and landfill map on [page 33 >](#)

ID	Location	Details		
A	On site	Site Name: Juliette Way Materials Recycling & WEEE ATF Site Address: Units 38-39, Juliette Way, Purfleet Ind Park, Purfleet, Essex, RM15 4YA Correspondence Address: -	Type of Site: 75kte Materials Recycling Facility Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 631434 EPR reference: EA/EPR/EB3135AD Operator: Recorra Limited Waste Management licence No: 103737 Annual Tonnage: 149998	Issue Date: 28/12/2011 Effective Date: 28/12/2011 Modified: 28/12/2011 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
A	On site	Site Name: Juliette Way Materials Recycling & W E E E A T F Site Address: Units 38-39, Juliette Way, Purfleet Ind Park, Purfleet, Essex, RM15 4YA Correspondence Address: -	Type of Site: 75kte Materials Recycling Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BPR006 EPR reference: EA/EPR/EB3135AD/A001 Operator: B P R Group Europe Ltd Waste Management licence No: 103737 Annual Tonnage: 149998	Issue Date: 28/12/2011 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued



ID	Location	Details		
A	On site	Site Name: Juliette Way Materials Recycling & WEEE ATF Site Address: Units 38-39, Juliette Way, Purfleet Ind Park, Purfleet, Essex, RM15 4YA Correspondence Address: -	Type of Site: 75kte Materials Recycling Facility Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BPR006 EPR reference: EA/EPR/EB3135AD/A001 Operator: BPR Group Europe Ltd Waste Management licence No: 103737 Annual Tonnage: 149998	Issue Date: 28/12/2011 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
A	On site	Site Name: Juliette Way Materials Recycling & WEEE ATF Site Address: Units 38-39, Juliette Way, Purfleet Ind Park, Purfleet, Essex, RM15 4YA Correspondence Address: -	Type of Site: 75kte Materials Recycling Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BPR006 EPR reference: EA/EPR/EB3135AD/A001 Operator: BPR Group Europe Ltd Waste Management licence No: 103737 Annual Tonnage: 149998	Issue Date: 28/12/2011 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
C	147m NW	Site Name: Shields Environmental Ltd, Purfleet Site Address: Shields Environmental Ltd, Units 32a, 33 & 34, Kerry Avenue, Aveley, South Ockendon, Essex, RM15 4YA Correspondence Address: -	Type of Site: Metal Recycling Site (mixed MRS's) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SHI002 EPR reference: EA/EPR/UP3197NE/A001 Operator: Shields Environmental Ltd Waste Management licence No: 80484 Annual Tonnage: 25000	Issue Date: 01/07/1998 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued



ID	Location	Details		
C	147m NW	Site Name: Shields Environmental Ltd, Purfleet Site Address: Units 32a, Kerry Avenue, Aveley, South Ockendon, Essex, RM15 4YA Correspondence Address: -	Type of Site: Metal Recycling Site (mixed MRS's) Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 658869 EPR reference: EA/EPR/UP3197NE Operator: Shields Environmental Limited Waste Management licence No: 80484 Annual Tonnage: 25000	Issue Date: 01/07/1998 Effective Date: 01/07/1998 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
D	197m NW	Site Name: Shields Environmental, Purfleet Site Address: Unit 32 Purfleet Industrial Park, Kerry Avenue, South Ockendon, Essex, RM15 4YE Correspondence Address: -	Type of Site: Metal Recycling Site (mixed MRS's) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 640495 EPR reference: EA/EPR/BP3297NJ Operator: Shields Environmental Limited Waste Management licence No: 80435 Annual Tonnage: 24999	Issue Date: 20/12/1991 Effective Date: 20/12/1991 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
D	198m NW	Site Name: Shield Environmental Ltd Purfleet Site Address: Shield Environmental Ltd, Unit 32 Purfleet Industrial Park, Kerry Avenue, Purfleet, Essex, RM15 4YE Correspondence Address: Shield Special Metals Ltd, 32-34, Kerry Avenue, Purfleet Industrial Park, Purfleet, Essex, RM15 4YA	Type of Site: Metal Recycling Site (mixed MRS's) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SHI001 EPR reference: - Operator: Shields Environmental Ltd Waste Management licence No: 80435 Annual Tonnage: 0	Issue Date: 20/12/1991 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
5	308m NW	Site Name: Seales Road Haulage Ltd Site Address: 20 Juliette Way, Juliette Way, Purfleet Ind Park, South Ockendon, Essex, RM15 4YD Correspondence Address: -	Type of Site: Physical Treatment Facility Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 651228 EPR reference: EA/EPR/AB3408HK Operator: Seales Road Haulage Limited Waste Management licence No: 400635 Annual Tonnage: 250000	Issue Date: 30/10/2013 Effective Date: 30/10/2013 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued



ID	Location	Details		
F	341m NW	Site Name: N18 Metals Limited Site Address: Kerry Avenue, Purfleet Industrial Park, Purfleet, Essex, RM15 4YE Correspondence Address: -	Type of Site: 75kte Vehicle Depollution Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: N18001 EPR reference: EA/EPR/HB3008HG/A001 Operator: N18 Metals Limited Waste Management licence No: 405970 Annual Tonnage: 74999	Issue Date: 19/03/2019 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
F	341m NW	Site Name: N18 Metals Limited Site Address: Kerry Avenue, Purfleet Industrial Park, Purfleet, Essex, RM15 4YE Correspondence Address: -	Type of Site: 75kte Vehicle Depollution Facility Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: N18001 EPR reference: EA/EPR/HB3008HG/A001 Operator: N18 Metals Limited Waste Management licence No: 405970 Annual Tonnage: 74999	Issue Date: 19/03/2019 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
G	344m NW	Site Name: Gordon Recycling Site Address: 19, Juliette Way, South Ockendon, Purfleet, Essex, RM15 4YD Correspondence Address: -	Type of Site: Physical Treatment Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: GFG002 EPR reference: EA/EPR/FB3302XE/A001 Operator: G F Gordon (Plant Hire) Ltd Waste Management licence No: 404147 Annual Tonnage: 74999	Issue Date: 02/10/2017 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued



ID	Location	Details		
G	344m NW	Site Name: Gordon Recycling Site Address: 19 Juliette Way, Juliette Way, South Ockendon, Purfleet, Essex, RM15 4YD Correspondence Address: -	Type of Site: Physical Treatment Facility Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 640480 EPR reference: EA/EPR/FB3302XE Operator: G F Gordon (Plant Hire) Limited Waste Management licence No: 404147 Annual Tonnage: 74999	Issue Date: 02/10/2017 Effective Date: 02/10/2017 Modified: 26/07/2023 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
F	350m NW	Site Name: Redcorn Limited Site Address: Kerry Avenue, Purfleet Industrial Park, Purfleet, Essex, RM15 4YE Correspondence Address: -	Type of Site: Metal Recycling Site (Vehicle Dismantler) Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 662869 EPR reference: EA/EPR/KB3300TC Operator: Redcorn Limited Waste Management licence No: 405970 Annual Tonnage: 74999	Issue Date: 19/03/2019 Effective Date: 19/03/2019 Modified: 14/02/2023 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
L	421m NW	Site Name: Modern Skips, Purfleet Site Address: Tony Passey, Unit 17- 18, Juliet Way, Aveley, South Ockendon, Essex, RM15 4YD Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: PAS001 EPR reference: EA/EPR/PP3397NN/A001 Operator: Passey Tony Waste Management licence No: 80418 Annual Tonnage: 5000	Issue Date: 07/03/1996 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued



ID	Location	Details		
L	421m NW	Site Name: Modern Skips, Purfleet Site Address: Unit 17-18, Juliet Way, Aveley, South Ockendon, Essex, RM15 4YD Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 642658 EPR reference: EA/EPR/KB3001SG Operator: Modern Skips 2014 Limited Waste Management licence No: 80418 Annual Tonnage: 5000	Issue Date: 07/03/1996 Effective Date: 07/03/1996 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued

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

3.7 Waste exemptions

Records within 500m	44
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Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on [page 33](#) >

ID	Location	Site	Reference	Category	Sub-Category	Description
A	On site	-	WEX351573	Storing waste exemption	Not on a farm	Storage of waste in a secure place
1	104m N	Unit 4, Romeo Business Centre, Purfleet Industrial Park, London Road, South Ockendon, Rm15 4yd	EA/EPR/VP385 OZP/A001	Treating waste exemption	Not on a farm	Repair or refurbishment of WEEE
2	107m S	-	WEX351579	Storing waste exemption	Not on a farm	Storage of waste in a secure place
B	109m SE	Fanns Farm London Road South Ockendon Essex Rm15 4xu	EPR/MH0471L S/A001	Disposing of waste exemption	Agricultural waste only	Burning waste in the open
B	109m SE	Fanns Farm London Road South Ockendon Essex Rm15 4xu	EPR/MH0471L S/A001	Disposing of waste exemption	Agricultural waste only	Deposit of waste from dredging of inland waters
B	109m SE	Fanns Farm London Road South Ockendon Essex Rm15 4xu	EPR/MH0471L S/A001	Treating waste exemption	Agricultural waste only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising



ID	Location	Site	Reference	Category	Sub-Category	Description
B	109m SE	Fanns Farm London Road South Ockendon Essex Rm15 4xu	EPR/MH0471L S/A001	Using waste exemption	Agricultural waste only	Use of waste in construction
B	109m SE	Fanns Farm London Road South Ockendon Essex Rm15 4xu	EPR/MH0471L S/A001	Using waste exemption	Agricultural waste only	Spreading of plant matter to confer benefit
E	217m NW	Unit 1a, Thurrock Commercial Centre, Purfleet Industrial Park, Aveley, South Ockendon, Rm15 4ya	WEX160815	Storing waste exemption	Not on a farm	Storage of waste in a secure place
E	217m NW	Unit 1a, Thurrock Commercial Centre, Purfleet Industrial Park, Aveley, South Ockendon, Rm15 4ya	WEX160815	Treating waste exemption	Not on a farm	Recovery of scrap metal
4	224m NE	Npa - Sports Ground At Rosina Cafe, London Road. Rm15 4dt	EPR/NH0018R T/A001	Using waste exemption	Non- agricultural waste only	Spreading waste on non- agricultural land to confer benefit
6	323m SE	1 Tank Hill Road Purfleet Rm19 1sx	EPR/XE5546CC /A001	Storing waste exemption	Both agricultural and non- agricultural waste	Storage of waste in secure containers
7	328m E	Old Fireman's Ground Purfleet Road South Ockendon Thurrock Rm15 4dt	EPR/DE5044N Z/A001	Using waste exemption	Both agricultural and non- agricultural waste	Use of waste in construction
H	355m SE	Fanns Farm, London Road, Aveley, South Ockendon, Rm15 4xu	WEX014405	Disposing of waste exemption	On a farm	Burning waste in the open
H	355m SE	Fanns Farm, London Road, Aveley, South Ockendon, Rm15 4xu	WEX173715	Using waste exemption	On a farm	Use of waste in construction
H	355m SE	Fanns Farm, London Road, Aveley, South Ockendon, Rm15 4xu	WEX014405	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
H	355m SE	Fanns Farm, London Road, Aveley, South Ockendon, Rm15 4xu	WEX014405	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising



ID	Location	Site	Reference	Category	Sub-Category	Description
H	355m SE	Fanns Farm, London Road, Aveley, South Ockendon, Rm15 4xu	WEX014405	Using waste exemption	On a farm	Use of waste in construction
H	355m SE	Fanns Farm, London Road, Aveley, South Ockendon, Rm15 4xu	WEX014405	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
H	355m SE	Fanns Farm, London Road, Aveley, South Ockendon, Rm15 4xu	WEX305924	Using waste exemption	On a farm	Use of waste in construction
I	369m NW	Unit 19, Juliet Way, Aveley, South Ockendon, Rm15 4yd	WEX034450	Using waste exemption	Not on a farm	Use of waste in construction
I	369m NW	Audit House, 151, High Street, Billericay, Cm12 9ab	WEX094855	Storing waste exemption	Not on a farm	Storage of waste in a secure place
J	391m NW	Unit 14, Juliet Way, Aveley, South Ockendon, Rm15 4yd	WEX146664	Storing waste exemption	Not on a farm	Storage of waste in a secure place
J	391m NW	Unit 14, Juliet Way, Aveley, South Ockendon, Rm15 4yd	WEX146664	Using waste exemption	Not on a farm	Use of waste in construction
J	392m NW	Juliette Way Purfleet Industrial Park Purfleet Essex Rm15 4yd	EPR/DF0733D F/A001	Treating waste exemption	Non-agricultural waste only	Recovery of scrap metal
K	398m S	Spp Pumps Limited, 1 Tank Hill Road, Purfleet, Rm19 1sx	WEX128166	Storing waste exemption	Not on a farm	Storage of waste in secure containers
K	398m S	-	WEX307184	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
K	400m S	-	WEX268765	Storing waste exemption	Not on a farm	Storage of waste in secure containers
K	400m S	-	WEX284321	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
L	414m NW	Accoil Recycling Limited, Unit 4 Romeo Business Centre, Purfleet Industrial Park, London Road, South Ockendon, Essex, Rm15 4yd	WEX071037	Storing waste exemption	Not on a farm	Storage of waste in a secure place
L	428m NW	17 Juliet Way Purfleet Industrial Estate South Ockendon Rm15 4yd	EPR/BE5459Q T/A001	Using waste exemption	Non-agricultural waste only	Use of waste for a specified purpose



ID	Location	Site	Reference	Category	Sub-Category	Description
L	447m NW	Unit 4, Juliet Way, Aveley, South Ockendon, Rm15 4yd	WEX339306	Storing waste exemption	Not on a farm	Storage of waste in a secure place
L	447m NW	Unit 4, Juliet Way, Aveley, South Ockendon, Rm15 4yd	WEX215534	Storing waste exemption	Not on a farm	Storage of waste in a secure place
M	450m NW	Unit 38-39 Juliette Way, Purfleet Industrial Park, Purfleet, Rm15 4ya	WEX344041	Storing waste exemption	Not on a farm	Storage of waste in a secure place
M	450m NW	Plot 40, Purfleet Industrial Access Road, Juliette Way, Purfleet, Essex, Rm15 4ya	WEX344042	Storing waste exemption	Not on a farm	Storage of waste in a secure place
M	450m NW	Unit 38-39 Juliette Way, Purfleet Industrial Park, Purfleet, Rm15 4ya	WEX218861	Storing waste exemption	Not on a farm	Storage of waste in a secure place
M	450m NW	Plot 40, Purfleet Industrial Access Road, Juliette Way, Purfleet, Essex, Rm15 4ya	WEX220445	Storing waste exemption	Not on a farm	Storage of waste in a secure place
N	454m NW	Thurrock Commercial Centre Unit 20-24 Purfleet Industrial Park South Ockendon Essex Rm15 4yg	EPR/AF0603TR /A001	Storing waste exemption	Non-agricultural waste only	Storage of waste in secure containers
N	455m NW	Unit 20-24, Thurrock Commercial Centre, Purfleet Industrial Park, Aveley, South Ockendon, Rm15 4yg	WEX131879	Storing waste exemption	Not on a farm	Storage of waste in secure containers
N	455m NW	Unit 20-24, Thurrock Commercial Centre, Purfleet Industrial Park, Aveley, South Ockendon, Rm15 4yg	WEX131879	Storing waste exemption	Not on a farm	Storage of waste in a secure place
N	455m NW	Unit 20-24, Thurrock Commercial Centre, Purfleet Industrial Park, Aveley, South Ockendon, Rm15 4yg	WEX134020	Storing waste exemption	Not on a farm	Storage of waste in secure containers
N	455m NW	Unit 20-24, Thurrock Commercial Centre, Purfleet Industrial Park, Aveley, South Ockendon, Rm15 4yg	WEX134020	Storing waste exemption	Not on a farm	Storage of waste in a secure place

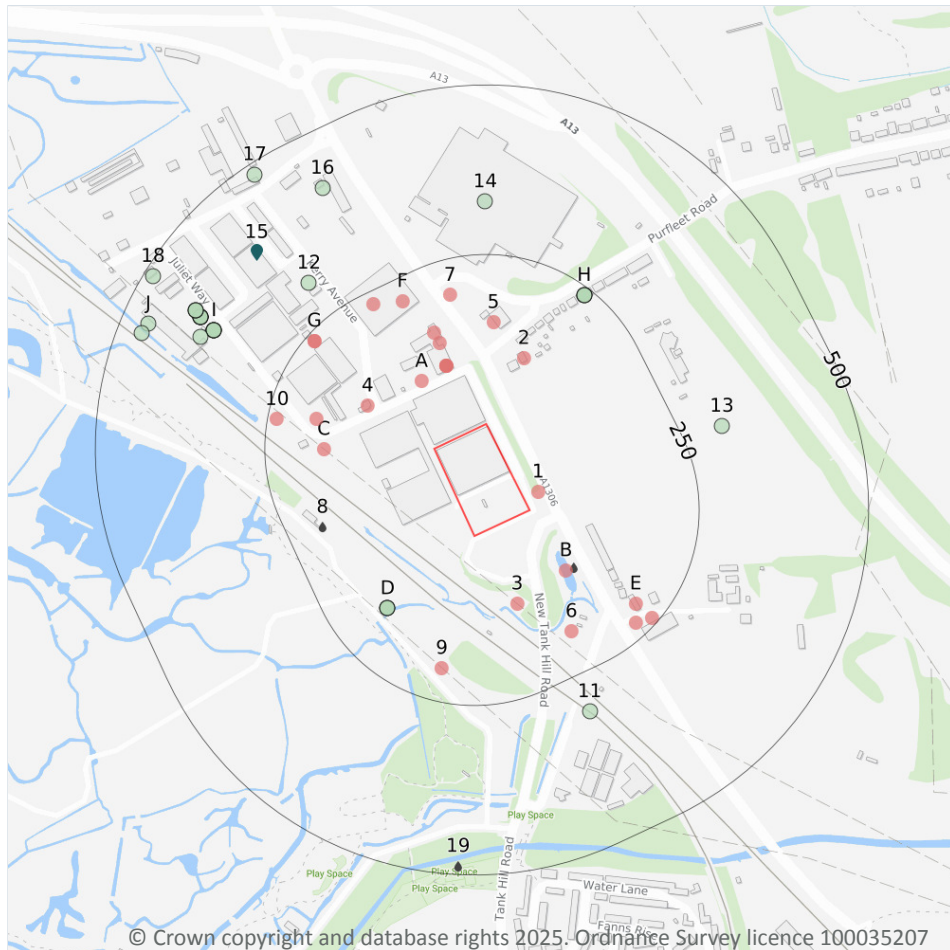


ID	Location	Site	Reference	Category	Sub-Category	Description
N	455m NW	Unit 20-24, Thurrock Commercial Centre, Purfleet Industrial Park, Aveley, South Ockendon, Rm15 4yg	WEX275702	Storing waste exemption	Not on a farm	Storage of waste in a secure place
N	455m NW	Unit 20-24, Thurrock Commercial Centre, Purfleet Industrial Park, Aveley, South Ockendon, Rm15 4yg	WEX275702	Storing waste exemption	Not on a farm	Storage of waste in secure containers

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
- Licensed pollutant release (Part A(2)/B)
- Licensed Discharges to controlled waters
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m

25

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 45 >](#)

ID	Location	Company	Address	Activity	Category
1	23m E	Electricity Sub Station	Essex, RM15	Electrical Features	Infrastructure and Facilities
A	98m NW	Electricity Sub Station	Essex, RM15	Electrical Features	Infrastructure and Facilities



ID	Location	Company	Address	Activity	Category
A	103m N	Pallet Trucks Co	Ellisam House Unit 35d Purfleet Industrial Park, Juliet Way, Purfleet-on-Thames, Essex, RM15 4YD	Lifting and Handling Equipment	Industrial Products
A	103m N	Stairclimbers UK	Ellisam House Unit 35d Purfleet Industrial Park, Juliet Way, Purfleet-on-Thames, Essex, RM15 4YD	Lifting and Handling Equipment	Industrial Products
A	103m N	Liftruck UK	Ellisam House Unit 35d Purfleet Industrial Park, Juliet Way, Purfleet-on-Thames, Essex, RM15 4YD	Lifting and Handling Equipment	Industrial Products
B	104m SE	Balancing Pond	Essex, RM15	Settling, Balancing and Silt Ponds	Bodies of Water
2	112m N	Rosina MOT Centre	Purfleet Road, Aveley, Essex, RM15 4DT	Vehicle Repair, Testing and Servicing	Repair and Servicing
3	117m S	Pylon	Essex, RM15	Electrical Features	Infrastructure and Facilities
4	117m NW	Shields Environmental Plc	Unit 34 Purfleet Industrial Park, Kerry Avenue, Purfleet-on-Thames, Essex, RM15 4YE	Recycling, Reclamation and Disposal	Recycling Services
A	137m N	Electricity Sub Station	Essex, RM15	Electrical Features	Infrastructure and Facilities
5	151m N	Rykel Van Hire	Former Tunnel Garage, London Road, Aveley, Essex, RM15 4DT	Vehicle Hire and Rental	Hire Services
A	155m N	German Auto Mobiles	London Road, Aveley, Essex, RM15 4XS	Vehicle Repair, Testing and Servicing	Repair and Servicing
C	163m W	Pylon	Essex, RM15	Electrical Features	Infrastructure and Facilities
C	180m W	Electricity Sub Station	Essex, RM15	Electrical Features	Infrastructure and Facilities
6	188m SE	Gas Governor	Essex, RM15	Gas Features	Infrastructure and Facilities
7	198m N	Gas Governor Station	Essex, RM15	Gas Features	Infrastructure and Facilities
9	201m S	Pylon	Essex, RM19	Electrical Features	Infrastructure and Facilities
E	208m SE	Top Tyres Car Service Centre	1a, London Road, Aveley, Essex, RM15 4XU	Vehicle Parts and Accessories	Motoring



ID	Location	Company	Address	Activity	Category
F	217m NW	Inline Automotive Solutions	Unit 1a Purfleet Industrial Park, Kerry Avenue, Purfleet-on-Thames, Essex, RM15 4YA	Vehicle Repair, Testing and Servicing	Repair and Servicing
E	228m SE	Tank	Essex, RM15	Tanks (Generic)	Industrial Features
F	231m NW	Ensignbus	Unit 1a Purfleet Industrial Park, Kerry Avenue, Purfleet-on-Thames, Essex, RM15 4YA	Vehicle Hire and Rental	Hire Services
10	236m W	Shorten Environmental	Unit 21, Juliet Way, Aveley, South Ockendon, Essex, RM15 4YD	Distribution and Haulage	Transport, Storage and Delivery
G	238m NW	Imix Concrete	Unit 31 Purfleet Industrial Park, Kerry Avenue, Purfleet-on-Thames, Essex, RM15 4YE	Concrete Products	Industrial Products
G	238m NW	Empire Concrete Pumping	Unit 31 Purfleet Industrial Park, Kerry Avenue, Purfleet-on-Thames, Essex, RM15 4YE	Construction Completion Services	Construction Services
E	240m SE	Electricity Sub Station	Essex, RM15	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**0**

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

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m**0**

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

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



4.10 Licensed industrial activities (Part A(1))

Records within 500m

0

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

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

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

Records within 500m

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 45 >](#)

ID	Location	Address	Details	
15	391m NW	West Thurrock Coach Works, Unit 39, Thurrock Commercial Centre, Purfleet Industrial Park, Aveley, Essex, RM15 4YG	Process: Respraying of Road Vehicles 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

3

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 45 >](#)

ID	Location	Address	Details	
B	107m SE	TRANSCOGASPRESSUREREDUCTI ONSTN,TANKHILLROAD,PURFLEET ,ESSEX	Effluent Type: TRADE DISCHARGES - BOILER BLOWDOWN EFFLUENT Permit Number: CANM.0259 Permit Version: 1 Receiving Water: (DIVERTED) AVELEY HALL SEWER	Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 11/05/2001 Effective Date: 23/04/2001 Revocation Date: 19/08/2008
8	198m W	RIFLERANGEWAREHOUSES,LOND ONROAD,RIFLERANGEWAREHOU SES,LONDONR,OAD,PURFLEET,ES SEX	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: CNTW.0526 Permit Version: 1 Receiving Water: TRIBUTARY OFAVELEY HALLSEWER	Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 25/05/1990 Effective Date: 25/05/1990 Revocation Date: 05/09/2000
19	487m S	PURFLEETRIFLERANGES,LAGOON AVELYHALLSEWER	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: PR2NFE03155 Permit Version: 1 Receiving Water: -	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 24/06/1955 Effective Date: 24/06/1955 Revocation Date: 25/03/1992

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m

0

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

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

4.15 Pollutant release to public sewer

Records within 500m

0

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m

0

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

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



4.17 List 2 Dangerous Substances

Records within 500m

0

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

30

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 45 >](#)

ID	Location	Details	
D	167m SW	Incident Date: 18/03/2002 Incident Identification: 64843 Pollutant: Oils and Fuel:Oils and Fuel Pollutant Description: Diesel:Lubricating Oils	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
D	167m SW	Incident Date: 18/03/2002 Incident Identification: 64843 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
D	167m SW	Incident Date: 18/03/2002 Incident Identification: 64843 Pollutant: Oils and Fuel Pollutant Description: Lubricating Oils	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
H	239m NE	Incident Date: 28/05/2002 Incident Identification: 81718 Pollutant: Inert Materials and Wastes:Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes:Soils and Clay	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
H	239m NE	Incident Date: 28/05/2002 Incident Identification: 81718 Pollutant: Inert Materials and Wastes Pollutant Description: Soils and Clay	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
H	239m NE	Incident Date: 28/05/2002 Incident Identification: 81718 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)

ID	Location	Details	
11	306m SE	Incident Date: 28/04/2002 Incident Identification: 75220 Pollutant: Oils and Fuel Pollutant Description: Hydraulic Oils	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
12	307m NW	Incident Date: 15/07/2003 Incident Identification: 173922 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
13	310m E	Incident Date: 22/05/2003 Incident Identification: 160034 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
14	328m N	Incident Date: 11/09/2002 Incident Identification: 107149 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
I	369m NW	Incident Date: 17/12/2002 Incident Identification: 126592 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 3 (Minor)
I	369m NW	Incident Date: 17/12/2002 Incident Identification: 126592 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 3 (Minor)
I	369m NW	Incident Date: 17/12/2002 Incident Identification: 126592 Pollutant: Atmospheric Pollutants and Effects:Inert Materials and Wastes Pollutant Description: Smoke:Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 3 (Minor)
I	369m NW	Incident Date: 17/12/2002 Incident Identification: 126592 Pollutant: Inert Materials and Wastes Pollutant Description: Smoke Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 3 (Minor)
I	369m NW	Incident Date: 17/12/2002 Incident Identification: 126592 Pollutant: Atmospheric Pollutants and Effects : Inert Materials and Wastes Pollutant Description: Smoke :Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 3 (Minor)



ID	Location	Details	
I	382m NW	Incident Date: 18/12/2002 Incident Identification: 126866 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 3 (Minor)
I	396m NW	Incident Date: 19/12/2002 Incident Identification: 126870 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 3 (Minor)
I	396m NW	Incident Date: 19/12/2002 Incident Identification: 126870 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 3 (Minor)
I	396m NW	Incident Date: 19/12/2002 Incident Identification: 126870 Pollutant: Inert Materials and Wastes Pollutant Description: Other Inert Material or Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 3 (Minor)
I	396m NW	Incident Date: 19/12/2002 Incident Identification: 126870 Pollutant: Atmospheric Pollutants and Effects:Inert Materials and Wastes:Inert Materials and Wastes Pollutant Description: Smoke:Construction and Demolition Materials and Wastes:Other Inert Material or Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 3 (Minor)
I	396m NW	Incident Date: 19/12/2002 Incident Identification: 126870 Pollutant: Inert Materials and Wastes Inert Materials and Wastes Pollutant Description: Smoke Construction and Demolition Materials and Wastes Other Inert Material or Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 3 (Minor)
I	396m NW	Incident Date: 19/12/2002 Incident Identification: 126870 Pollutant: Atmospheric Pollutants and Effects : Inert Materials and Wastes Pollutant Description: Smoke :Construction and Demolition Materials and Wastes :Other Inert Material or Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 3 (Minor)
I	407m NW	Incident Date: 04/04/2003 Incident Identification: 148425 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)



ID	Location	Details	
I	407m NW	Incident Date: 20/06/2003 Incident Identification: 167382 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
I	407m NW	Incident Date: 07/08/2003 Incident Identification: 181276 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
16	418m NW	Incident Date: 11/07/2001 Incident Identification: 15666 Pollutant: Contaminated Water Pollutant Description: Firefighting Run-Off	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
J	461m NW	Incident Date: 18/11/2002 Incident Identification: 122043 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
J	464m NW	Incident Date: 12/05/2003 Incident Identification: 157774 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
17	484m NW	Incident Date: 18/07/2003 Incident Identification: 174761 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
18	487m NW	Incident Date: 30/08/2002 Incident Identification: 104274 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)

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

4.19 Pollution inventory substances

Records within 500m	0
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The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

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



4.20 Pollution inventory waste transfers

Records within 500m

0

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

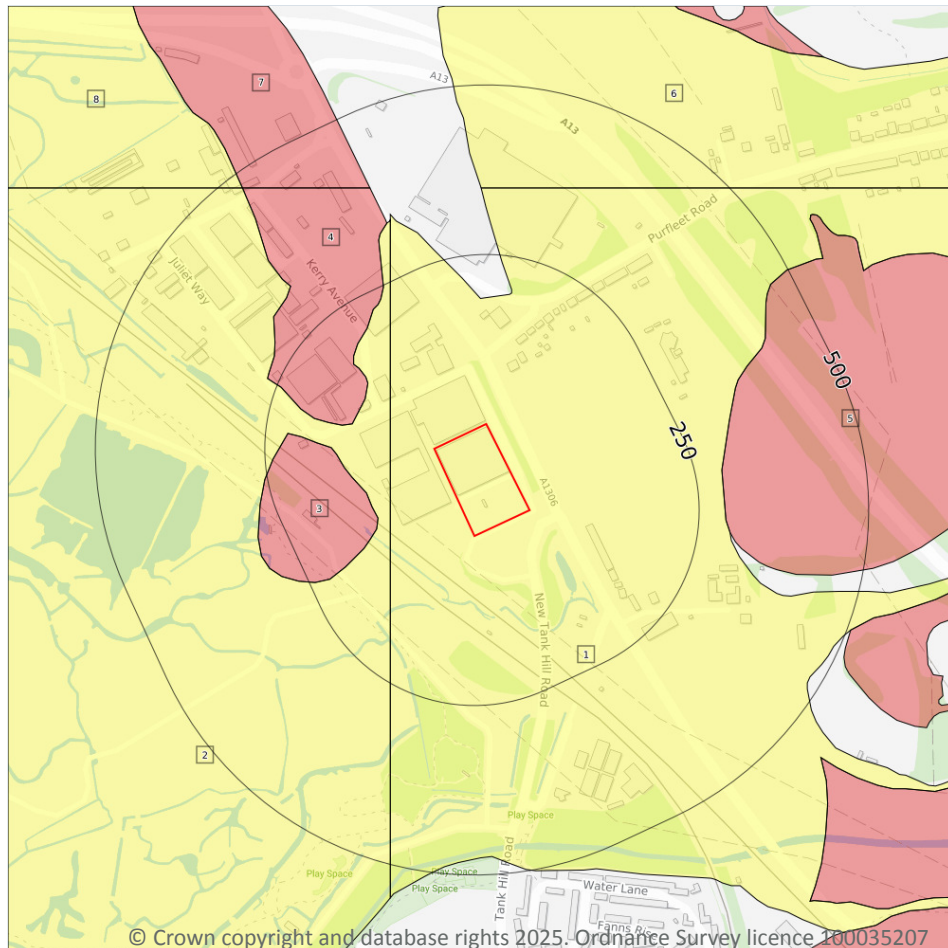
0

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

8

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on [page 56 >](#)

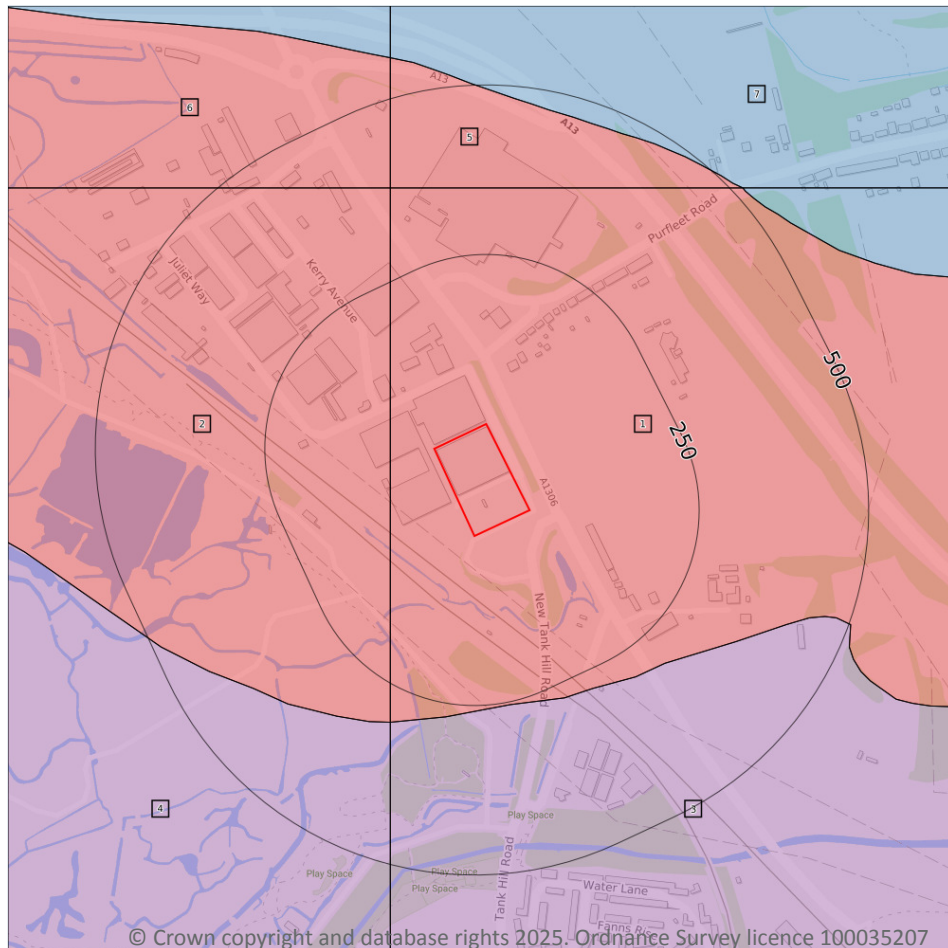
ID	Location	Designation	Description
1	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
2	65m W	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type



ID	Location	Designation	Description
3	118m W	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
4	124m NW	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
5	287m E	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
6	348m 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
7	388m 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
8	478m NW	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

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

7

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on [page 58](#) >

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	65m W	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

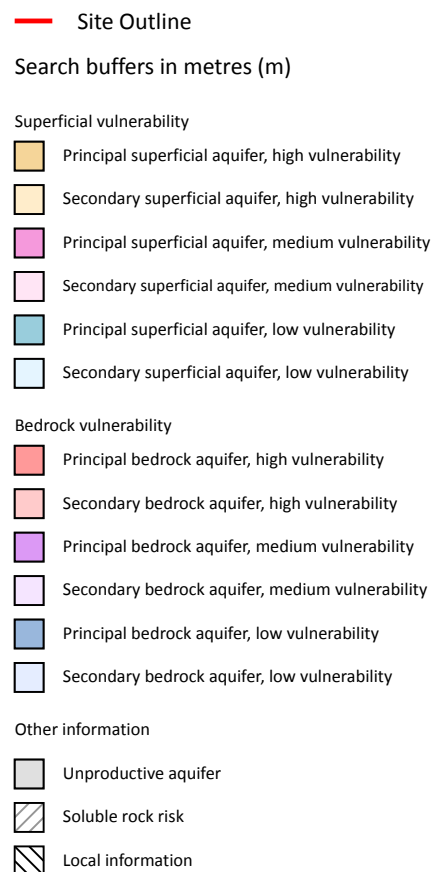
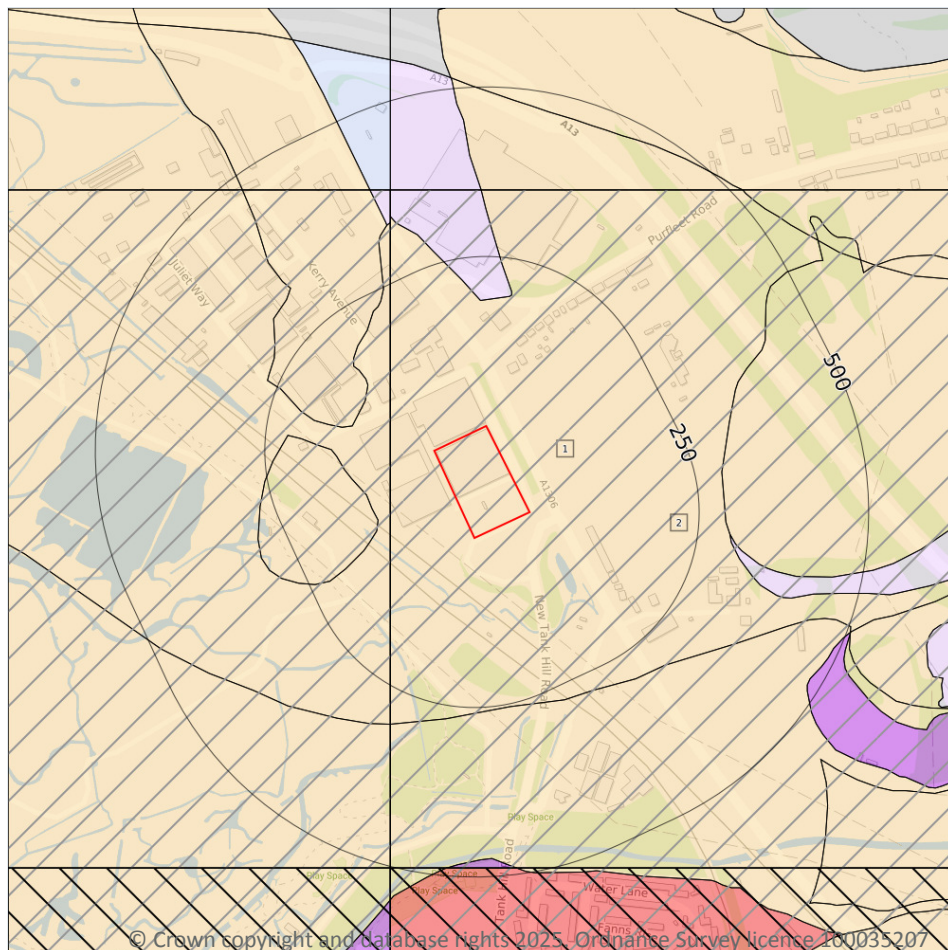


ID	Location	Designation	Description
3	254m S	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
4	301m S	Principal	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
5	348m 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
6	376m 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
7	470m N	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

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

1

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 60](#) >

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

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

5.4 Groundwater vulnerability- soluble rock risk

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

ID	Maximum soluble risk category	Percentage of grid square covered by maximum risk
2	Very significant soluble rocks are likely to be present with a moderate possibility of localised natural subsidence or dissolution-related degradation of bedrock, especially in adverse conditions such as concentrated surface or subsurface water flow.	2.0%

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

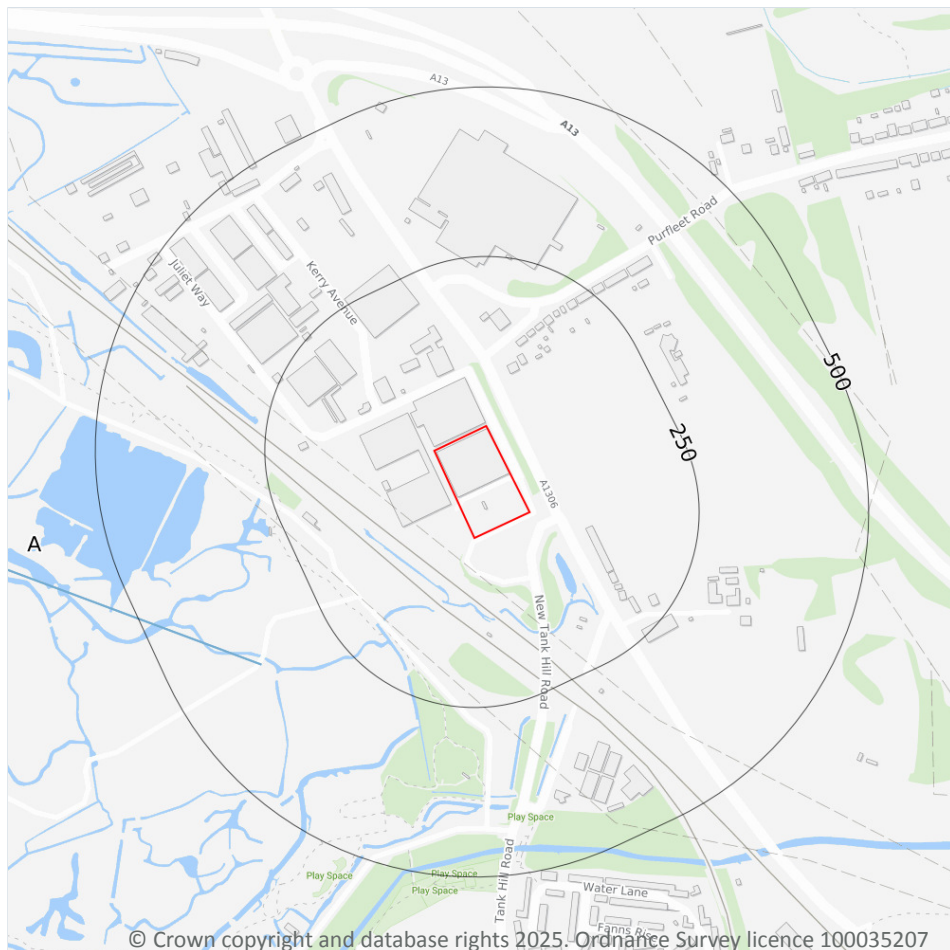
5.5 Groundwater vulnerability- local information

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

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

Abstractions and Source Protection Zones



- Site Outline
- Search buffers in metres (m)**
- Source Protection Zone 1
Inner catchment
- Source Protection Zone 2
Outer catchment
- Source Protection Zone 3
Total catchment
- Source Protection Zone 4
Zone of Special Interest
- Source Protection Zone 1c
Inner catchment - confined aquifer
- Source Protection Zone 2c
Outer catchment - confined aquifer
- Source Protection Zone 3c
Total catchment - confined aquifer
- Drinking water abstraction licences
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

6

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 62 >](#)

ID	Location	Details	
-	1456m NW	Status: Active Licence No: TH/037/0055/017 Details: Mineral Washing Direct Source: THAMES GROUNDWATER Point: WENNINGTON QUARRY Data Type: Poly4 Name: Ingrebourne Valley Limited Easting: 553811 Northing: 181530	Annual Volume (m ³): 51085 Max Daily Volume (m ³): 407 Original Application No: NPS/WR/029645 Original Start Date: 26/07/2019 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 26/07/2019 Version End Date: -
-	1456m NW	Status: Active Licence No: TH/037/0055/017 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: THAMES GROUNDWATER Point: WENNINGTON QUARRY Data Type: Poly4 Name: Ingrebourne Valley Limited Easting: 553811 Northing: 181530	Annual Volume (m ³): 51085 Max Daily Volume (m ³): 407 Original Application No: NPS/WR/029645 Original Start Date: 26/07/2019 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 26/07/2019 Version End Date: -
-	1456m NW	Status: Active Licence No: TH/037/0055/017 Details: Dust Suppression Direct Source: THAMES GROUNDWATER Point: WENNINGTON QUARRY Data Type: Poly4 Name: Ingrebourne Valley Limited Easting: 553811 Northing: 181530	Annual Volume (m ³): 51085 Max Daily Volume (m ³): 407 Original Application No: NPS/WR/029645 Original Start Date: 26/07/2019 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 26/07/2019 Version End Date: -
-	1456m NW	Status: Active Licence No: TH/037/0055/018 Details: Dewatering Direct Source: THAMES GROUNDWATER Point: WENNINGTON QUARRY SUMPS Data Type: Poly4 Name: Ingrebourne Valley Limited Easting: 553811 Northing: 181530	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: NPS/WR/030164 Original Start Date: 26/07/2019 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 26/07/2019 Version End Date: -
-	1839m N	Status: Active Licence No: TH/037/0055/020 Details: Transfer Between Sources (Post Water Act 2003) Direct Source: THAMES GROUNDWATER Point: TAPLOW GRAVELS AT EAST HALL FARM, WENNINGTON Data Type: Poly4 Name: BRETT AGGREGATES LIMITED Easting: 553389 Northing: 181284	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: NPS/NA/000978 Original Start Date: 30/11/2021 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 30/11/2021 Version End Date: -



ID	Location	Details	
-	1839m N	Status: Historical Licence No: TH/037/0055/020 Details: Transfer Between Sources (Post Water Act 2003) Direct Source: THAMES GROUNDWATER Point: TAPLOW GRAVELS AT EAST HALL FARM, WENNINGTON Data Type: Poly4 Name: BRETT AGGREGATES LIMITED Easting: 553389 Northing: 181284	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 30/11/2021 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 30/11/2021 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m

17

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 62 >](#)

ID	Location	Details	
A	365m SW	Status: Historical Licence No: 08/37/55/0103/R01 Details: General Use Relating To Secondary Category (Low Loss) Direct Source: THAMES SURFACE WATER - NON TIDAL Point: AVELEY HALL SEWER AT RAINHAM Data Type: Line Name: THE ROYAL SOCIETY FOR THE PROTECTION OF BIRDS Easting: 554140 Northing: 179550	Annual Volume (m ³): 45486 Max Daily Volume (m ³): 1565 Original Application No: - Original Start Date: 01/04/2016 Expiry Date: 31/03/2028 Issue No: 2 Version Start Date: 01/04/2016 Version End Date: -
A	365m SW	Status: Historical Licence No: 08/37/55/0103/R01 Details: General Use Relating To Secondary Category (Low Loss) Direct Source: THAMES SURFACE WATER - NON TIDAL Point: AVELEY HALL SEWER AT RAINHAM (E & F) Data Type: Line Name: THE ROYAL SOCIETY FOR THE PROTECTION OF BIRDS Easting: 554140 Northing: 179550	Annual Volume (m ³): 111000 Max Daily Volume (m ³): 2766 Original Application No: NPS/WR/028399 Original Start Date: 01/04/2016 Expiry Date: 31/03/2028 Issue No: 4 Version Start Date: 27/07/2018 Version End Date: -



ID	Location	Details	
-	713m W	Status: Historical Licence No: 08/37/55/0103/R01 Details: General Use Relating To Secondary Category (Low Loss) Direct Source: THAMES SURFACE WATER - NON TIDAL Point: AVELEY HALL SEWER AT RAINHAM Data Type: Line Name: THE ROYAL SOCIETY FOR THE PROTECTION OF BIRDS Easting: 554130 Northing: 179080	Annual Volume (m ³): 45486 Max Daily Volume (m ³): 1565 Original Application No: - Original Start Date: 01/04/2016 Expiry Date: 31/03/2028 Issue No: 2 Version Start Date: 01/04/2016 Version End Date: -
-	713m W	Status: Historical Licence No: 08/37/55/0103/R01 Details: General Use Relating To Secondary Category (Low Loss) Direct Source: THAMES SURFACE WATER - NON TIDAL Point: AVELEY HALL SEWER AT RAINHAM (A & G) Data Type: Line Name: THE ROYAL SOCIETY FOR THE PROTECTION OF BIRDS Easting: 554130 Northing: 179080	Annual Volume (m ³): 111000 Max Daily Volume (m ³): 2766 Original Application No: NPS/WR/028399 Original Start Date: 01/04/2016 Expiry Date: 31/03/2028 Issue No: 4 Version Start Date: 27/07/2018 Version End Date: -
-	1037m SE	Status: Historical Licence No: 8/37/56/*S/0049 Details: General use relating to Secondary Category (Medium Loss) Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: MARDYKE AT PURFLEET MILL Data Type: Point Name: B P B PAPERBOARD PLC Easting: 556100 Northing: 179000	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 01/01/1967 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1998 Version End Date: -
-	1061m W	Status: Historical Licence No: 08/37/55/0103/R01 Details: General Use Relating To Secondary Category (Low Loss) Direct Source: THAMES SURFACE WATER - NON TIDAL Point: WENNINGTON BRANCH SEWER AT RAINHAM (B) Data Type: Point Name: THE ROYAL SOCIETY FOR THE PROTECTION OF BIRDS Easting: 554005 Northing: 179570	Annual Volume (m ³): 111000 Max Daily Volume (m ³): 2766 Original Application No: NPS/WR/028399 Original Start Date: 01/04/2016 Expiry Date: 31/03/2028 Issue No: 4 Version Start Date: 27/07/2018 Version End Date: -



ID	Location	Details	
-	1113m SW	Status: Historical Licence No: 08/37/55/0103 Details: General Use Relating To Secondary Category (Low Loss) Direct Source: THAMES SURFACE WATER - NON TIDAL Point: RAINHAM, WENNINGTON & AVELEY MARSHES-WENNINGTON BRANCH SEWER Data Type: Point Name: THE ROYAL SOCIETY FOR THE PROTECTION OF BIRDS Easting: 554100 Northing: 179050	Annual Volume (m ³): 224140 Max Daily Volume (m ³): 1231.5 Original Application No: - Original Start Date: 10/05/2004 Expiry Date: 31/03/2016 Issue No: 2 Version Start Date: 05/07/2006 Version End Date: -
-	1135m W	Status: Historical Licence No: 08/37/55/0103/R01 Details: General Use Relating To Secondary Category (Low Loss) Direct Source: THAMES SURFACE WATER - NON TIDAL Point: WENNINGTON BRANCH SEWER AT RAINHAM Data Type: Point Name: THE ROYAL SOCIETY FOR THE PROTECTION OF BIRDS Easting: 553930 Northing: 179610	Annual Volume (m ³): 45486 Max Daily Volume (m ³): 1565 Original Application No: - Original Start Date: 01/04/2016 Expiry Date: 31/03/2028 Issue No: 2 Version Start Date: 01/04/2016 Version End Date: -
-	1174m E	Status: Active Licence No: 8/37/56/*S/0078 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: MARDYKE -BROOMHILL,PURFLEET Data Type: Line Name: D F COOPER & I P AGATES Easting: 556300 Northing: 179100	Annual Volume (m ³): 4434 Max Daily Volume (m ³): 977.4 Original Application No: - Original Start Date: 01/09/1988 Expiry Date: - Issue No: 100 Version Start Date: 01/12/1989 Version End Date: -
-	1413m W	Status: Historical Licence No: 08/37/55/0103/R01 Details: General Use Relating To Secondary Category (Low Loss) Direct Source: THAMES SURFACE WATER - NON TIDAL Point: WENNINGTON BRANCH SEWER (D) Data Type: Point Name: THE ROYAL SOCIETY FOR THE PROTECTION OF BIRDS Easting: 553745 Northing: 180120	Annual Volume (m ³): 45486 Max Daily Volume (m ³): 1565 Original Application No: - Original Start Date: 01/04/2016 Expiry Date: 31/03/2028 Issue No: 3 Version Start Date: 01/04/2016 Version End Date: -

ID	Location	Details	
-	1413m W	Status: Historical Licence No: 08/37/55/0103/R01 Details: General Use Relating To Secondary Category (Low Loss) Direct Source: THAMES SURFACE WATER - NON TIDAL Point: WENNINGTON BRANCH SEWER AT RAINHAM (D) Data Type: Point Name: THE ROYAL SOCIETY FOR THE PROTECTION OF BIRDS Easting: 553745 Northing: 180120	Annual Volume (m ³): 111000 Max Daily Volume (m ³): 2766 Original Application No: NPS/WR/028399 Original Start Date: 01/04/2016 Expiry Date: 31/03/2028 Issue No: 4 Version Start Date: 27/07/2018 Version End Date: -
-	1414m W	Status: Historical Licence No: 08/37/55/0103/R01 Details: General Use Relating To Secondary Category (Low Loss) Direct Source: THAMES SURFACE WATER - NON TIDAL Point: WENNINGTON BRANCH SEWER Data Type: Point Name: THE ROYAL SOCIETY FOR THE PROTECTION OF BIRDS Easting: 553740 Northing: 180110	Annual Volume (m ³): 45486 Max Daily Volume (m ³): 1565 Original Application No: - Original Start Date: 01/04/2016 Expiry Date: 31/03/2028 Issue No: 2 Version Start Date: 01/04/2016 Version End Date: -
-	1569m W	Status: Historical Licence No: 08/37/55/0103/R01 Details: General Use Relating To Secondary Category (Low Loss) Direct Source: THAMES SURFACE WATER - NON TIDAL Point: WENNINGTON BRANCH SEWER (C) Data Type: Point Name: THE ROYAL SOCIETY FOR THE PROTECTION OF BIRDS Easting: 553530 Northing: 179940	Annual Volume (m ³): 45486 Max Daily Volume (m ³): 1565 Original Application No: - Original Start Date: 01/04/2016 Expiry Date: 31/03/2028 Issue No: 3 Version Start Date: 01/04/2016 Version End Date: -
-	1569m W	Status: Historical Licence No: 08/37/55/0103/R01 Details: General Use Relating To Secondary Category (Low Loss) Direct Source: THAMES SURFACE WATER - NON TIDAL Point: WENNINGTON BRANCH SEWER AT RAINHAM (C) Data Type: Point Name: THE ROYAL SOCIETY FOR THE PROTECTION OF BIRDS Easting: 553530 Northing: 179940	Annual Volume (m ³): 111000 Max Daily Volume (m ³): 2766 Original Application No: NPS/WR/028399 Original Start Date: 01/04/2016 Expiry Date: 31/03/2028 Issue No: 4 Version Start Date: 27/07/2018 Version End Date: -



ID	Location	Details	
-	1584m E	Status: Historical Licence No: 8/37/56/*S/0007 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: AVELEY HALL FARM, ESSEX Data Type: Line Name: W J KNIGHT (FARMS) LTD Easting: 556700 Northing: 179000	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 01/10/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/10/1966 Version End Date: -
-	1683m W	Status: Historical Licence No: 08/37/55/0103/R01 Details: General Use Relating To Secondary Category (Low Loss) Direct Source: THAMES SURFACE WATER - NON TIDAL Point: WENNINGTON BRANCH SEWER Data Type: Point Name: THE ROYAL SOCIETY FOR THE PROTECTION OF BIRDS Easting: 553410 Northing: 179920	Annual Volume (m ³): 45486 Max Daily Volume (m ³): 1565 Original Application No: - Original Start Date: 01/04/2016 Expiry Date: 31/03/2028 Issue No: 2 Version Start Date: 01/04/2016 Version End Date: -
-	1922m E	Status: Historical Licence No: 8/37/56/*S/0071 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: MARDYKE NR.CAUSEWAY BRDG-PURFT Data Type: Line Name: SOUTH CONSTRUCTION LTD Easting: 557100 Northing: 179200	Annual Volume (m ³): 116 Max Daily Volume (m ³): 22.6 Original Application No: - Original Start Date: 01/11/1985 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2008 Version End Date: -

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

5.8 Potable abstractions

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

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

5.9 Source Protection Zones

Records within 500m

0

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

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

5.10 Source Protection Zones (confined aquifer)

Records within 500m

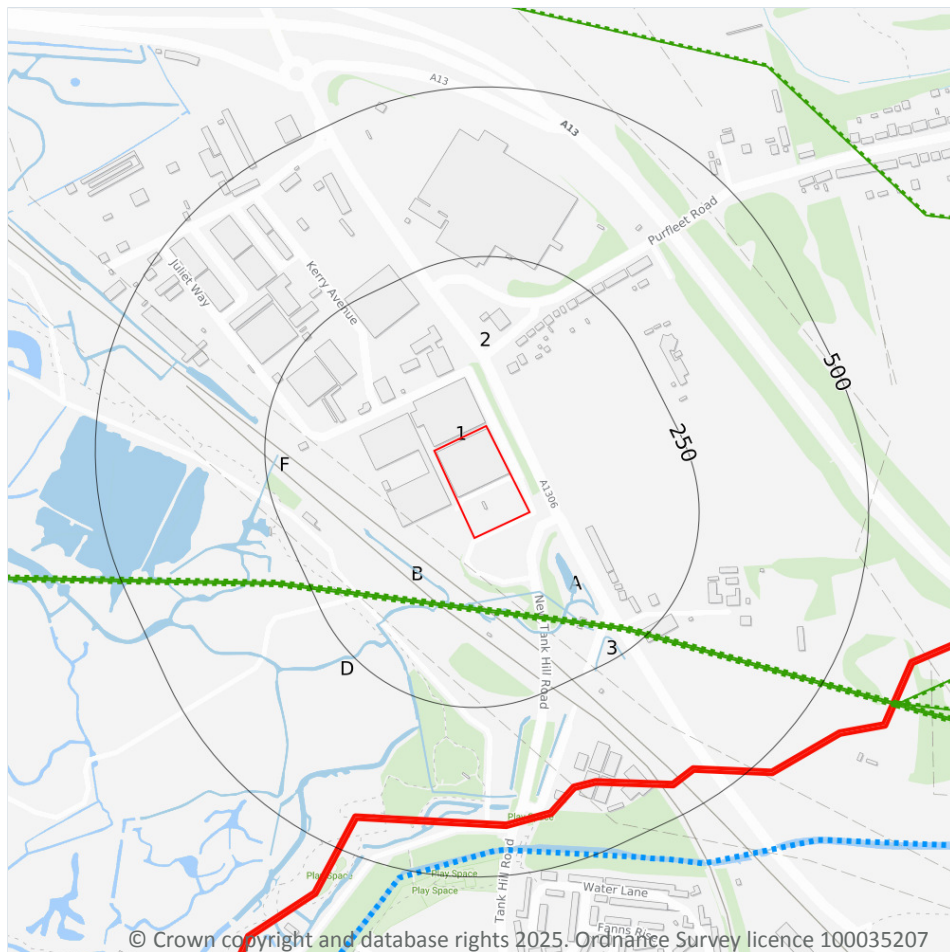
0

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

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



6 Hydrology



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

6.1 Water Network (OS MasterMap)

Records within 250m

25

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 70 >](#)

ID	Location	Type of water feature	Ground level	Permanence	Name
A	73m SE	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
B	89m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	94m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
B	98m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	98m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	103m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	105m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
B	115m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	116m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	122m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	131m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	140m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
A	142m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	147m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
A	169m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	182m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
B	190m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	198m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	198m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
3	216m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	219m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
B	225m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	231m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	233m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
F	244m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.



6.2 Surface water features

Records within 250m

7

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 70 >](#)

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 70 >](#)

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
1	On site	River	Southall Sewer and Runningwater Brook	GB106037028090	Roding Beam and Ingrebourne	Roding Beam and Ingrebourne

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 70 >](#)

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	1543m W	River	Southall Sewer and Runningwater Brook	GB106037028090 ↗	Moderate	Fail	Moderate	2019

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

6.5 WFD Groundwater bodies

Records on site	1
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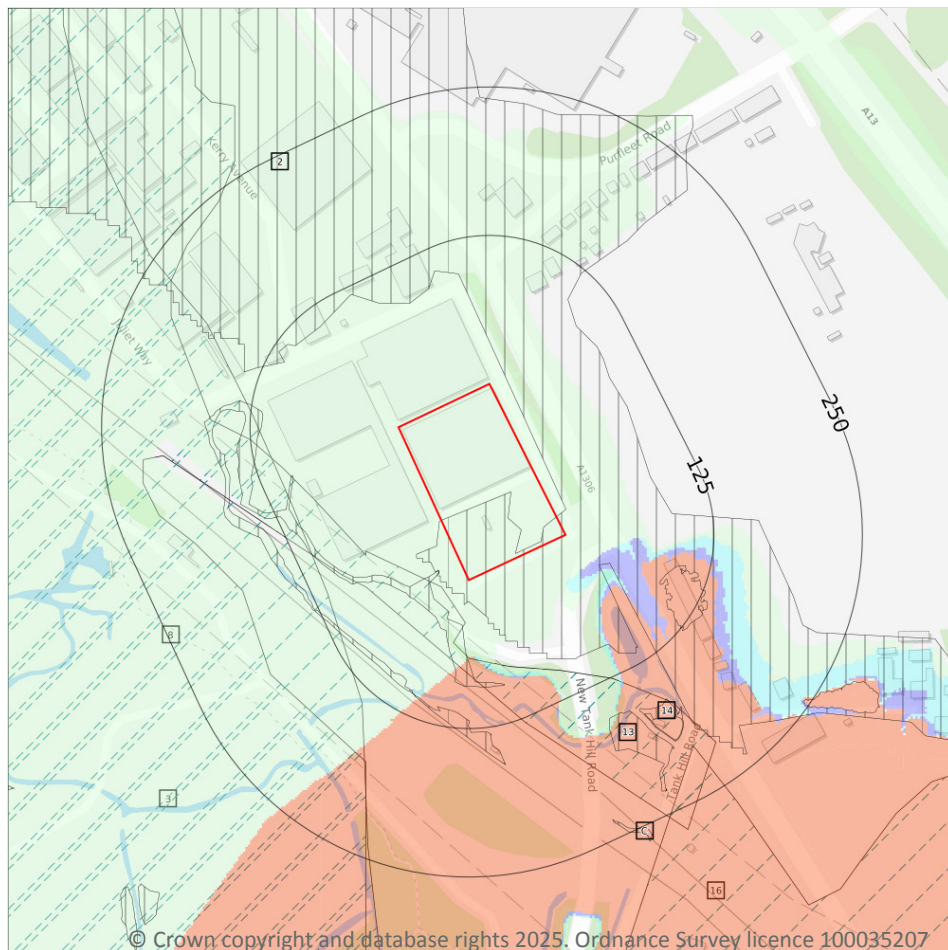
Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on [page 70 >](#)

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
2	On site	South Essex Lower London Tertiaries	GB40602G401000 ↗	Good	Good	Good	2019

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

7 River and coastal flooding



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

7.1 Risk of flooding from rivers and the sea

Records within 50m

6

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

Features are displayed on the River and coastal flooding map on [page 75 >](#)

Distance	Flood risk category
On site	Very Low
0 - 50m	Medium

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

7.2 Historical Flood Events

Records within 250m	3
----------------------------	----------

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

Features are displayed on the River and coastal flooding map on [page 75 >](#)

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
3	22m S	1953 Coast Flood Outline Essex	1953-01-31 1953-02-01	Sea	Other	Tidal
8	108m W	Ttd_Feo_1953	1953-01-01 1953-12-31	Sea	Operational failure/breach of defence	Tidal
16	208m SE	1968 September Flood Outline	1968-01-12 1968-01-15	Main river	Channel capacity exceeded (no raised defences)	Fluvial

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

7.3 Flood Defences

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

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

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

7.4 Areas Benefiting from Flood Defences

Records within 250m**4**

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

Features are displayed on the River and coastal flooding map on [page 75 >](#)

ID	Location	
2	On site	Area benefiting from flood defences
13	155m SE	Area benefiting from flood defences
14	159m SE	Area benefiting from flood defences
C	234m S	Area benefiting from flood defences

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

7.5 Flood Storage Areas

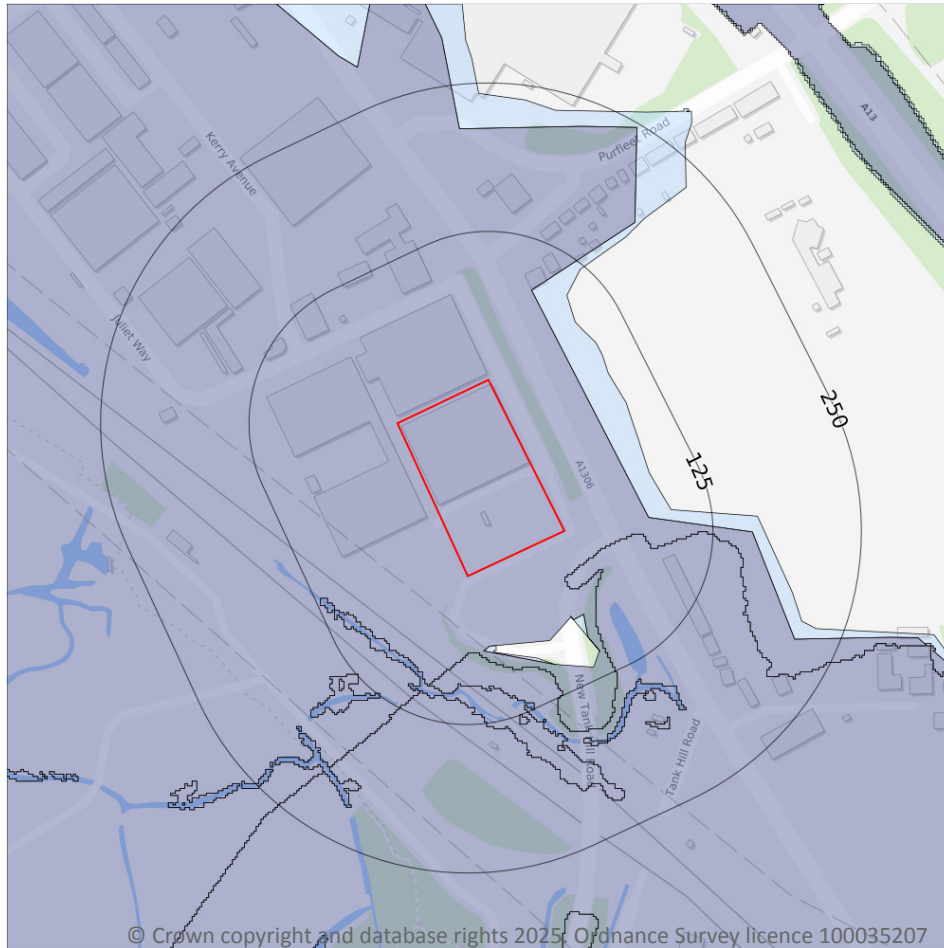
Records within 250m**0**

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

0

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

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

7.7 Flood Zone 3

Records within 50m

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.

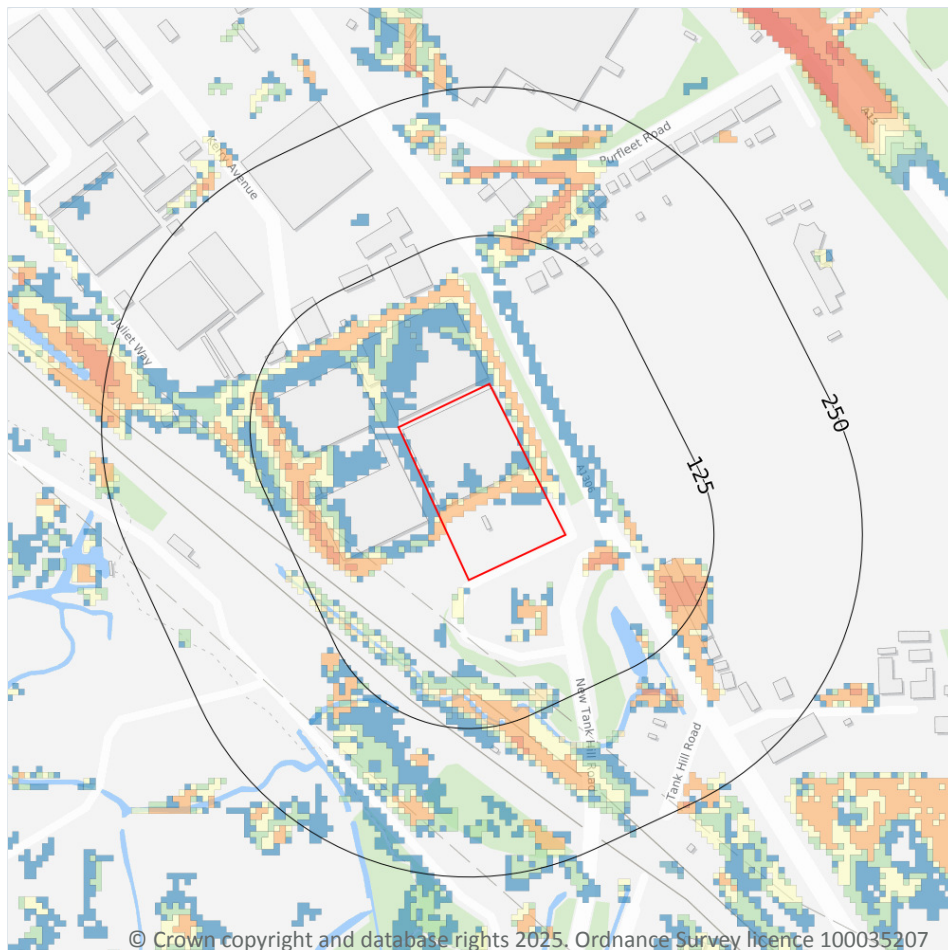
Features are displayed on the River and coastal flooding map on [page 75 >](#)

Location	Type
On site	Zone 3 - (Fluvial /Tidal Models)

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



8 Surface water flooding



— Site Outline

Search buffers in metres (m)

1 in 1000 return period

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

1 in 250 return period

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

1 in 100 return period

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

1 in 30 return period

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

8.1 Surface water flooding

Highest risk on site

1 in 30 year, 0.1m - 0.3m

Highest risk within 50m

1 in 30 year, 0.3m - 1.0m

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

Features are displayed on the Surface water flooding map on [page 80 >](#)

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

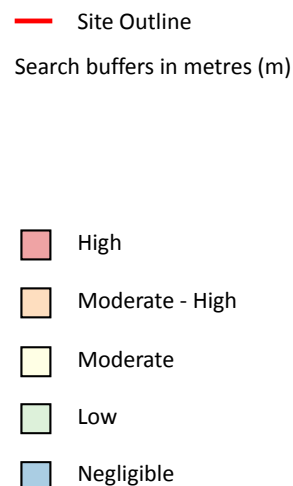
The table below shows the maximum flood depths for a range of return periods for the site.

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

This data is sourced from Ambiantal Risk Analytics.



9 Groundwater flooding



9.1 Groundwater flooding

Highest risk on site

Moderate

Highest risk within 50m

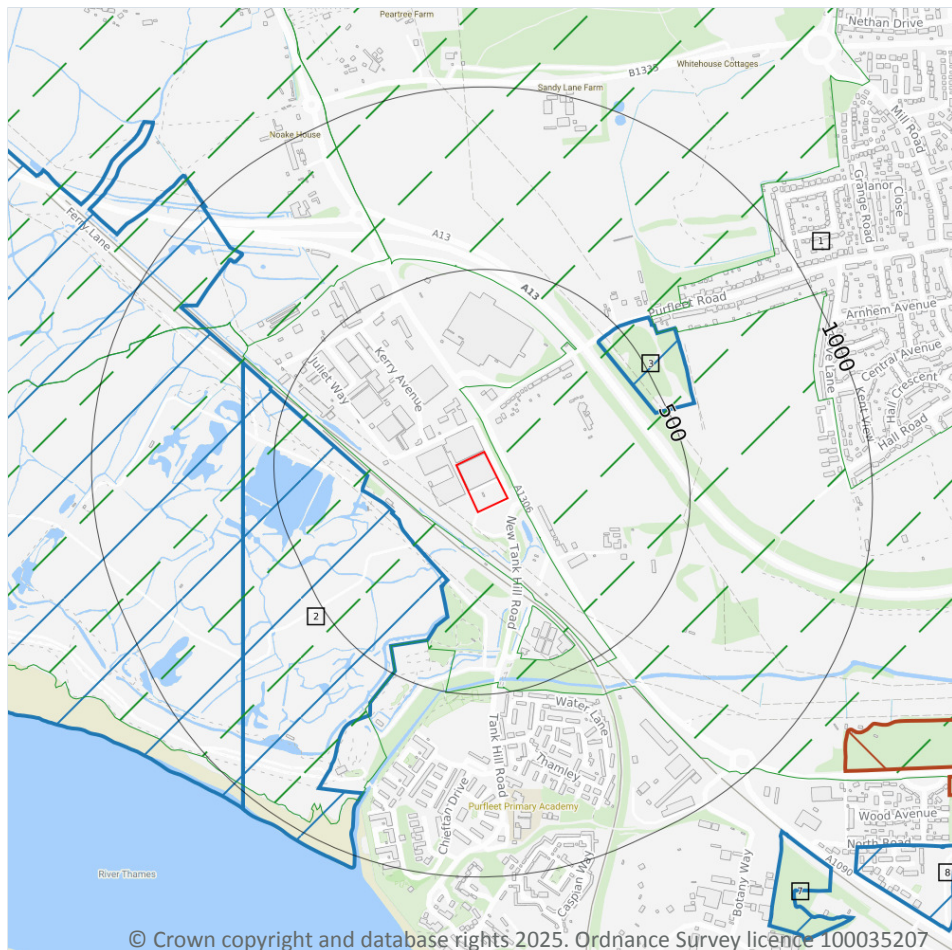
Moderate

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

Features are displayed on the Groundwater flooding map on [page 82 >](#)

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- Sites of Special Scientific Interest (SSSI)
- Designated Ancient Woodland
- Green Belt

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

6

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

Features are displayed on the Environmental designations map on [page 83](#) >

ID	Location	Name	Data source
2	187m SW	Inner Thames Marshes	Natural England



ID	Location	Name	Data source
3	431m NE	Purfleet Road, Aveley	Natural England
4	585m W	Inner Thames Marshes	Natural England
7	1183m SE	Purfleet Chalk Pits	Natural England
8	1354m SE	Purfleet Chalk Pits	Natural England
-	1832m SE	Purfleet Chalk Pits	Natural England

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**3**

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 83 >](#)

ID	Location	Name	Woodland Type
6	1130m SE	Watts Wood	Ancient & Semi-Natural Woodland
9	1432m SE	Watts Wood	Ancient & Semi-Natural Woodland
-	1734m E	Watts 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 83 >](#)

ID	Location	Name	Local Authority name
1	28m E	London Green Belt	Thurrock
5	591m N	London Green Belt	Havering
-	1757m SW	London Green Belt	Dartford
-	1767m SW	London Green Belt	Bexley

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

10.12 Proposed Ramsar sites

Records within 2000m

0

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

This data is sourced from Natural England.



10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m

0

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

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

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m

0

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

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m

0

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

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m

4

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

Location	Name	Type	NVZ ID	Status
On site	Mardyke NVZ	Surface Water	442	Existing

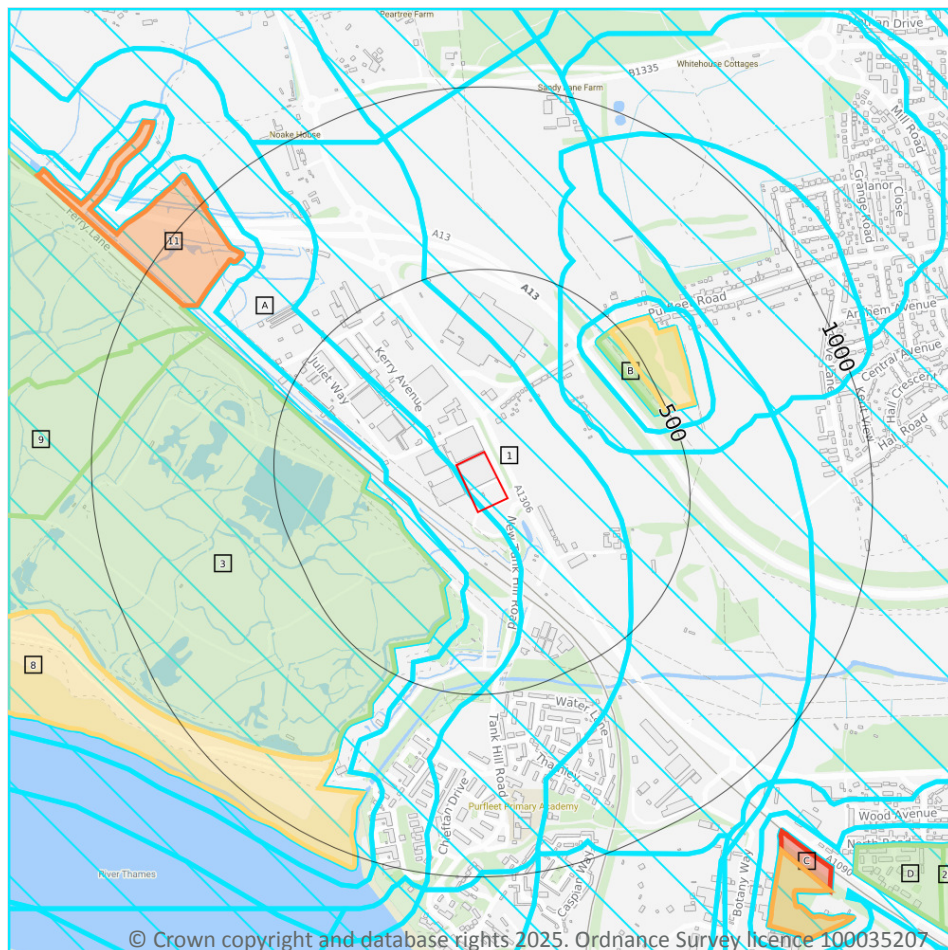


Location	Name	Type	NVZ ID	Status
On site	Southall Sewer and Runningwater Brook NVZ	Surface Water	802	Existing
973m W	Southall Sewer and Runningwater Brook NVZ	Surface Water	802	Existing
1170m SW	Mardyke NVZ	Surface Water	442	Existing

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

2

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

Features are displayed on the SSSI Impact Zones and Units map on [page 89](#) >

ID	Location	Type of developments requiring consultation
1	On site	All applications - All planning applications (except householder) outside or extending outside existing settlements/urban areas affecting greenspace, farmland, semi natural habitats or landscape features such as trees, hedges, streams, rural buildings/structures. Infrastructure - Pipelines and underground cables, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals. Wind and Solar - Solar schemes with footprint > 0.5ha, all wind turbines. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction. Rural non-residential - Large non residential developments outside existing settlements/urban areas where net additional gross internal floorspace is > 1,000m² or footprint exceeds 0.2ha. Residential - Residential development of 10 units or more. Rural residential - Any residential developments outside of existing settlements/urban areas with a total net gain in residential units. Air pollution - Any development that could cause AIR POLLUTION (incl: industrial/commercial processes, livestock & poultry units, slurry lagoons & digestate stores, manure stores). Combustion - All general combustion processes. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Waste - Mechanical and biological waste treatment, inert landfill, non-hazardous landfill, hazardous landfill, household civic amenity recycling facilities construction, demolition and excavation waste, other waste management. Composting - Any composting proposal. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management. Discharges - Any discharge of water or liquid waste that is discharged to ground (ie to seep away) or to surface water, such as a beck or stream. Water supply - Large infrastructure such as warehousing / industry where net additional gross internal floorspace is > 1,000m² or any development needing its own water supply .



ID	Location	Type of developments requiring consultation
A	On site	All applications - All planning applications (except householder) outside or extending outside existing settlements/urban areas affecting greenspace, farmland, semi natural habitats or landscape features such as trees, hedges, streams, rural buildings/structures. Infrastructure - Pipelines and underground cables, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals. Wind and Solar - Solar schemes with footprint > 0.5ha, all wind turbines. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction. Rural non-residential - Large non residential developments outside existing settlements/urban areas where net additional gross internal floorspace is > 1,000m² or footprint exceeds 0.2ha. Residential - Residential development of 10 units or more. Rural residential - Any residential developments outside of existing settlements/urban areas with a total net gain in residential units. Air pollution - Any development that could cause AIR POLLUTION or DUST either in its construction or operation (incl: industrial/commercial processes, livestock & poultry units, slurry lagoons & digestate stores, manure stores). Combustion - All general combustion processes. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Waste - Mechanical and biological waste treatment, inert landfill, non-hazardous landfill, hazardous landfill, household civic amenity recycling facilities construction, demolition and excavation waste, other waste management. Composting - Any composting proposal. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management. Discharges - Any discharge of water or liquid waste that is discharged to ground (ie to seep away) or to surface water, such as a beck or stream. Water supply - Large infrastructure such as warehousing / industry where net additional gross internal floorspace is > 1,000m² or any development needing its own water supply .

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	15
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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.

Features are displayed on the SSSI Impact Zones and Units map on [page 89 >](#)

ID:	3
Location:	187m SW
SSSI name:	Inner Thames Marshes
Unit name:	Aveley Marshes (Was Part Of Unit 3)
Broad habitat:	Neutral Grassland - Lowland
Condition:	Favourable



Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of non-breeding birds - Teal, Anas crecca	Favourable	24/03/2022
Assemblages of breeding birds - Lowland damp grasslands	Favourable	29/06/2010
Invert. assemblage W211 open water on disturbed sediments	Favourable	29/06/2010
Invert. assemblage W314 reed-fen & pools	Favourable	29/06/2010

ID: B
 Location: 431m NE
 SSSI name: Purfleet Road, Aveley
 Unit name: Embankment
 Broad habitat: Earth Heritage
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
ER - Quaternary of the Thames	Favourable	12/02/2009
FB - Quaternary of the Thames	Favourable	12/02/2009

ID: B
 Location: 476m NE
 SSSI name: Purfleet Road, Aveley
 Unit name: Top Field
 Broad habitat: Earth Heritage
 Condition: Unfavourable - No change
 Reportable features:

Feature name	Feature condition	Date of assessment
FB - Quaternary of the Thames	Unfavourable - No change	21/09/2010

ID: 8
 Location: 765m SW
 SSSI name: Inner Thames Marshes
 Unit name: Saltmarsh East - Thurrock
 Broad habitat: Littoral Sediment
 Condition: Unfavourable - No change
 Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of non-breeding birds - Teal, Anas crecca	Favourable	24/03/2022
Assemblages of breeding birds - Lowland damp grasslands	Favourable	14/09/2010
Invert. assemblage W211 open water on disturbed sediments	Favourable	14/09/2010
Vascular plant assemblage	Unfavourable - No change	14/09/2010

ID: 9
 Location: 767m NW
 SSSI name: Inner Thames Marshes
 Unit name: Wennington East - Thurrock
 Broad habitat: Neutral Grassland - Lowland
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of non-breeding birds - Teal, Anas crecca	Favourable	24/03/2022
Assemblages of breeding birds - Lowland damp grasslands	Favourable	01/10/2010
Invert. assemblage W211 open water on disturbed sediments	Favourable	01/10/2010
Invert. assemblage W314 reed-fen & pools	Favourable	01/10/2010
Vascular plant assemblage	Favourable	01/10/2010

ID: 10
 Location: 784m NW
 SSSI name: Inner Thames Marshes
 Unit name: Wennington West - Havering
 Broad habitat: Neutral Grassland - Lowland
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of non-breeding birds - Teal, Anas crecca	Favourable	24/03/2022
Assemblages of breeding birds - Lowland damp grasslands	Favourable	01/10/2010
Invert. assemblage W211 open water on disturbed sediments	Favourable	01/10/2010
Invert. assemblage W314 reed-fen & pools	Favourable	01/10/2010
Vascular plant assemblage	Favourable	01/10/2010



ID: 11
 Location: 822m NW
 SSSI name: Inner Thames Marshes
 Unit name: Wennington North
 Broad habitat: Neutral Grassland - Lowland
 Condition: Partially destroyed
 Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of non-breeding birds - Teal, <i>Anas crecca</i>	Favourable	24/03/2022
Assemblages of breeding birds - Lowland damp grasslands	Favourable	20/09/2010
Invert. assemblage W211 open water on disturbed sediments	Partially destroyed	20/09/2010
Invert. assemblage W314 reed-fen & pools	Partially destroyed	20/09/2010

ID: C
 Location: 1183m SE
 SSSI name: Purfleet Chalk Pits
 Unit name: Railway Cutting
 Broad habitat: Earth Heritage
 Condition: Destroyed
 Reportable features:

Feature name	Feature condition	Date of assessment
FM - Quaternary of the Thames	Destroyed	15/03/2006

ID: C
 Location: 1222m SE
 SSSI name: Purfleet Chalk Pits
 Unit name: West Pit
 Broad habitat: Earth Heritage
 Condition: Unfavourable - Declining
 Reportable features:

Feature name	Feature condition	Date of assessment
FM - Quaternary of the Thames	Unfavourable - Declining	27/03/2013

ID: D
 Location: 1354m SE
 SSSI name: Purfleet Chalk Pits
 Unit name: Undug Reserve
 Broad habitat: Earth Heritage
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
FB - Quaternary of the Thames	Favourable	20/03/2013

ID: -
 Location: 1360m W
 SSSI name: Inner Thames Marshes
 Unit name: Saltmarsh West - Havering
 Broad habitat: Littoral Sediment
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of non-breeding birds - Teal, Anas crecca	Favourable	24/03/2022
Assemblages of breeding birds - Lowland damp grasslands	Favourable	01/10/2010
Invert. assemblage W211 open water on disturbed sediments	Not Recorded	01/01/1900
Invert. assemblage W314 reed-fen & pools	Not Recorded	01/01/1900

ID: 25
 Location: 1529m SE
 SSSI name: Purfleet Chalk Pits
 Unit name: Chalk Pit- Middle West
 Broad habitat: Earth Heritage
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
FM - Quaternary of the Thames	Favourable	20/03/2013

ID: -
 Location: 1677m SE
 SSSI name: Purfleet Chalk Pits
 Unit name: Middle East
 Broad habitat: Earth Heritage
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
FM - Quaternary of the Thames	Favourable	20/03/2013

ID: -
 Location: 1765m NW
 SSSI name: Inner Thames Marshes
 Unit name: Pla Silt Lagoons
 Broad habitat: Littoral Sediment
 Condition: Unfavourable - Declining
 Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of non-breeding birds - Teal, Anas crecca	Favourable	24/03/2022
Assemblages of breeding birds - Lowland damp grasslands	Unfavourable - Declining	27/10/2010

ID: -
 Location: 1832m SE
 SSSI name: Purfleet Chalk Pits
 Unit name: North East
 Broad habitat: Earth Heritage
 Condition: Unfavourable - Declining
 Reportable features:

Feature name	Feature condition	Date of assessment
FM - Quaternary of the Thames	Unfavourable - Declining	20/03/2013

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

11 Visual and cultural designations

11.1 World Heritage Sites

Records within 250m

0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

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

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

11.3 National Parks

Records within 250m

0

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

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

11.4 Listed Buildings

Records within 250m

0

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



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

11.5 Conservation Areas

Records within 250m

0

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

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

11.6 Scheduled Ancient Monuments

Records within 250m

0

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

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

11.7 Registered Parks and Gardens

Records within 250m

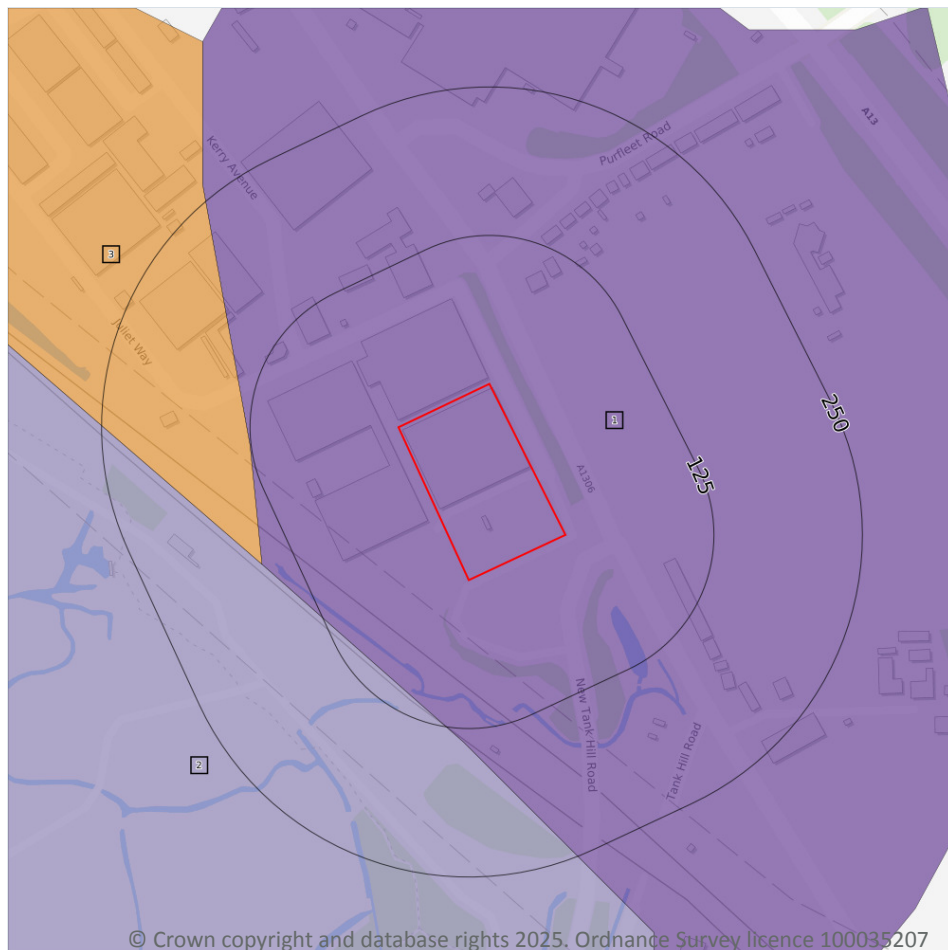
0

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

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



12 Agricultural designations



- Site Outline
- Search buffers in metres (m)
- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 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

3

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 99](#) >

ID	Location	Classification	Description
1	On site	Urban	Non-agricultural/no quality assigned
2	105m SW	Non Agricultural	Non-agricultural/no quality assigned

ID	Location	Classification	Description
3	126m W	Grade 3	Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.

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

0

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m

3

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

Location	Reference	Scheme	Start Date	End date
135m SW	AG00306104	Entry Level plus Higher Level Stewardship	01/03/2010	28/02/2023
189m SW	AG00306104	Entry Level plus Higher Level Stewardship	01/03/2010	28/02/2023
209m W	AG00306104	Entry Level plus Higher Level Stewardship	01/03/2010	28/02/2023

This data is sourced from Natural England.



12.5 Countryside Stewardship Schemes

Records within 250m

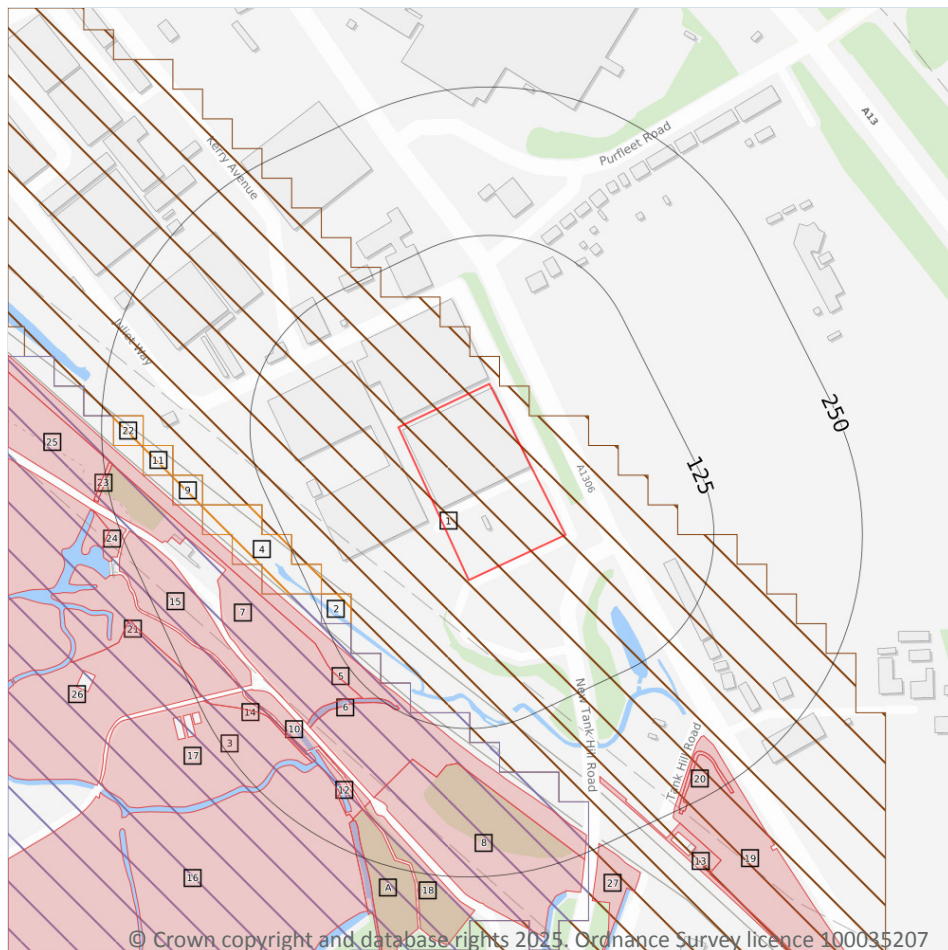
0

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

22

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 102 >](#)

ID	Location	Main Habitat	Other habitats
5	113m SW	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
6	122m S	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
7	134m SW	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
8	155m S	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)



ID	Location	Main Habitat	Other habitats
10	187m SW	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%); RBEDS (INV > 50%)
12	191m SW	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%); RBEDS (INV > 50%)
13	197m S	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
14	197m SW	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%); RBEDS (INV > 50%)
15	199m SW	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%); RBEDS (INV > 50%)
16	201m SW	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%); RBEDS (INV > 50%)
17	202m SW	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%); RBEDS (INV > 50%)
18	204m S	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
19	205m SE	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
A	212m S	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
20	214m SE	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
21	214m SW	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%); RBEDS (INV > 50%)
A	224m S	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%); RBEDS (INV > 50%)
23	243m W	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
24	245m W	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%); RBEDS (INV > 50%)
25	245m W	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%); RBEDS (INV > 50%)
26	246m SW	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%); RBEDS (INV > 50%)
27	247m S	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

7

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.

Features are displayed on the Habitat designations map on [page 102 >](#)

ID	Location	Type	Habitat
1	On site	Network Enhancement Zone 2	Not specified
2	95m SW	Network Enhancement Zone 1	Not specified



ID	Location	Type	Habitat
3	96m SW	Restorable Habitat	Not specified
4	107m SW	Network Enhancement Zone 1	Not specified
9	170m W	Network Enhancement Zone 1	Not specified
11	191m W	Network Enhancement Zone 1	Not specified
22	215m W	Network Enhancement Zone 1	Not specified

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

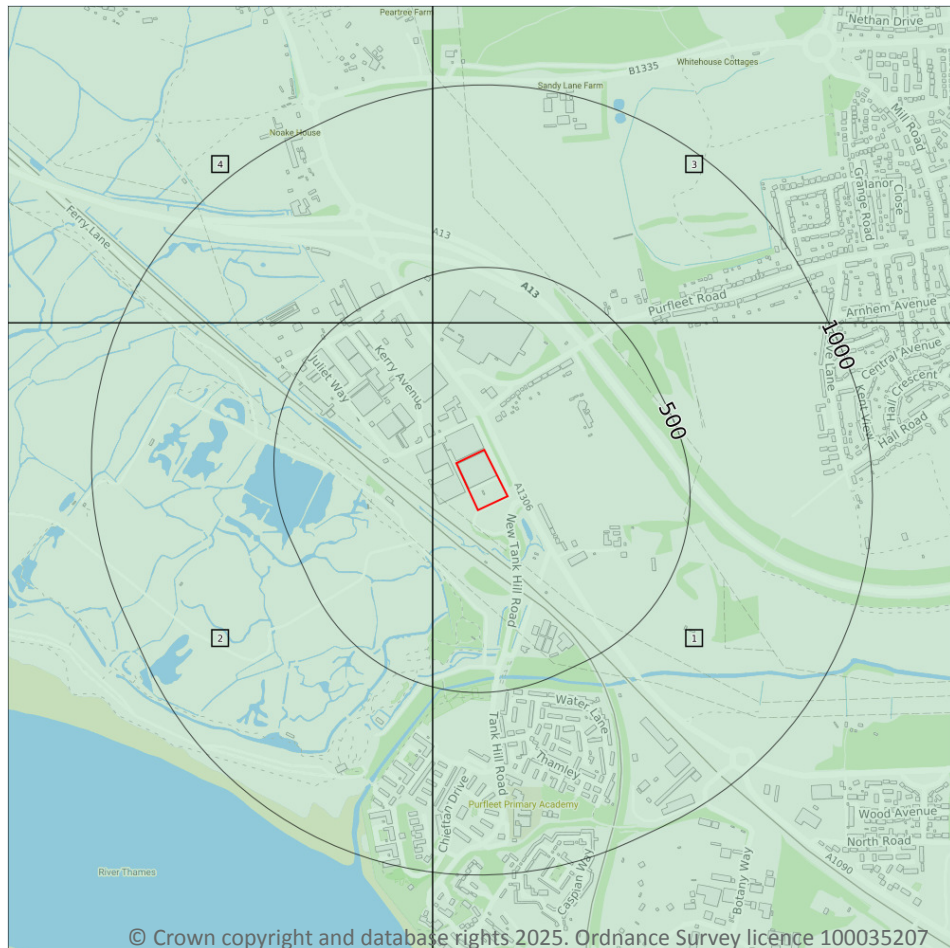
0

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

4

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 105](#) >

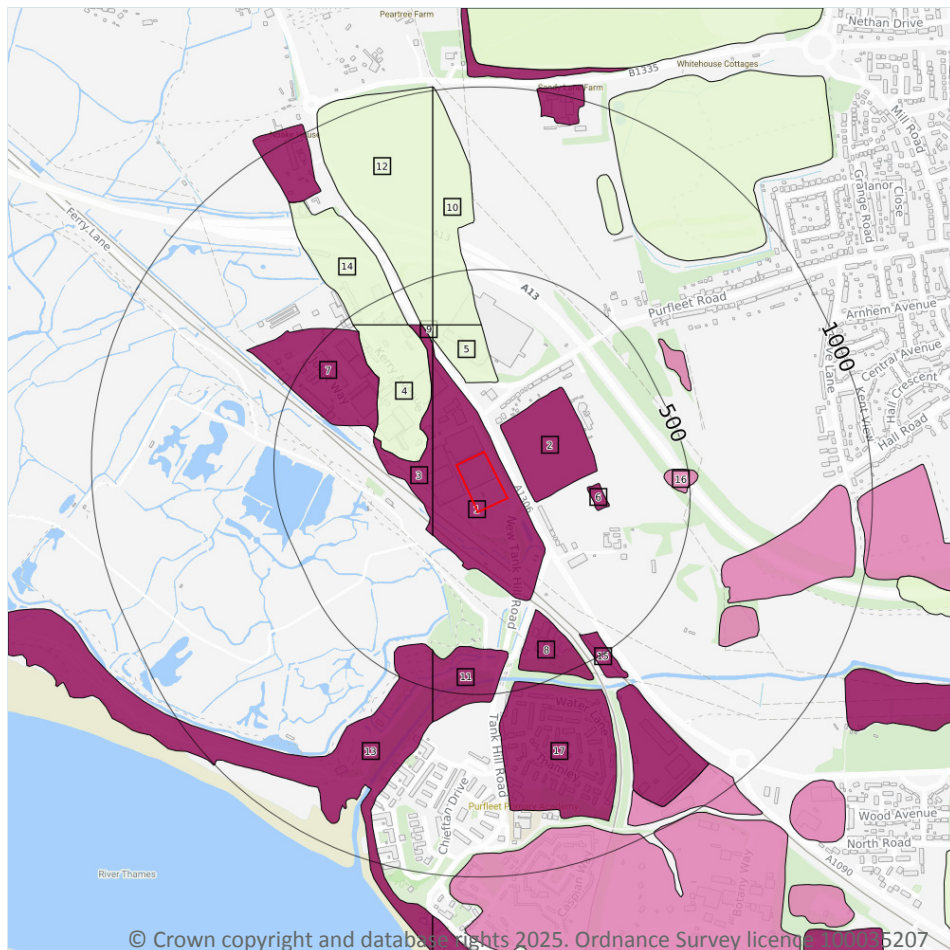
ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	TQ57NE
2	65m W	Full	Full	Full	No coverage	TQ57NW
3	348m N	Full	Full	Full	No coverage	TQ58SE
4	376m N	Full	Full	Full	No coverage	TQ58SW



This data is sourced from the British Geological Survey.



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



— Site Outline
Search buffers in metres (m)

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

14.2 Artificial and made ground (10k)

Records within 500m

17

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

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on [page 107](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	62m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
3	65m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
4	95m NW	WMGR-ARTDP	Infilled Ground	Artificial Deposit

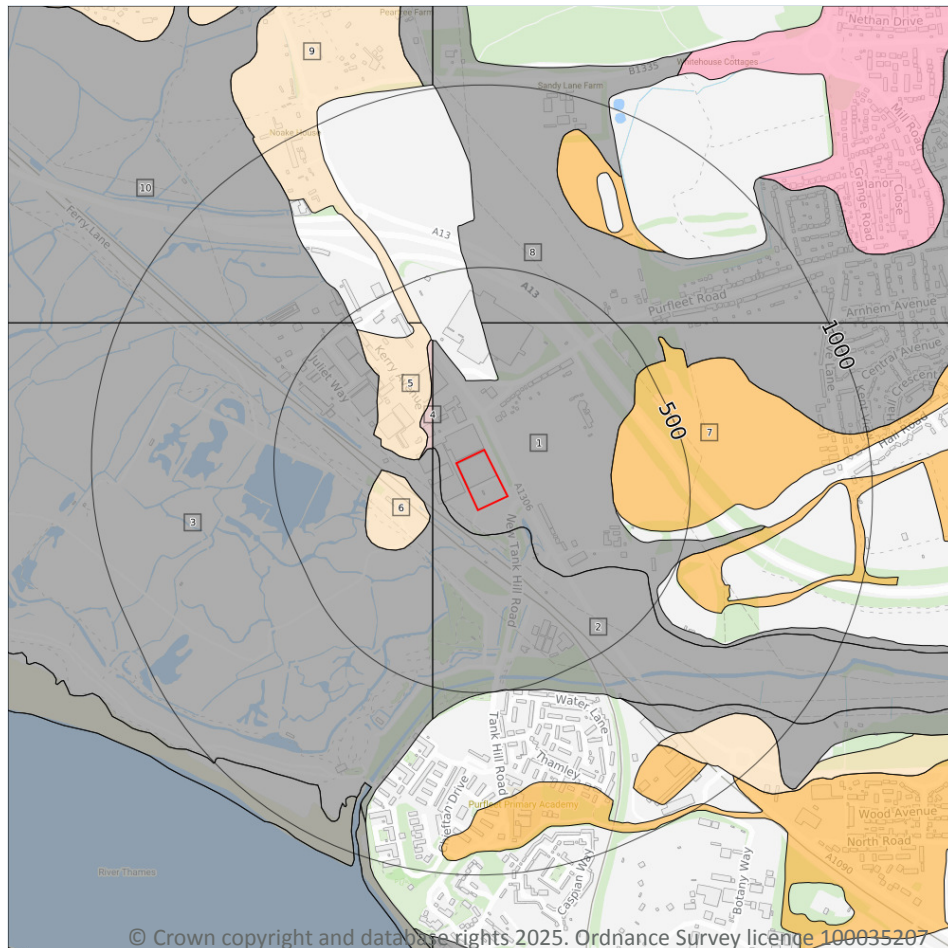


ID	Location	LEX Code	Description	Rock description
5	191m N	WMGR-ARTDP	Infilled Ground	Artificial Deposit
6	220m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
7	241m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
8	309m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
9	331m N	WMGR-ARTDP	Infilled Ground	Artificial Deposit
10	348m N	WMGR-UNKNOWN	Infilled Ground	Unknown/unclassified Entry
11	369m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
12	376m N	WMGR-UNKNOWN	Infilled Ground	Unknown/unclassified Entry
13	390m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
14	404m NW	WMGR-UNKNOWN	Infilled Ground	Unknown/unclassified Entry
15	422m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
16	433m E	WGR-VOID	Worked Ground (Undivided)	Void
17	476m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

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

10

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 109](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	HEAD-C	Head - Clay (unlithified Deposits Coding Scheme)	Clay
2	46m W	ALV-Z	Alluvium - Silt (unlithified Deposits Coding Scheme)	Silt
3	65m W	ALV-Z	Alluvium - Silt (unlithified Deposits Coding Scheme)	Silt
4	76m NW	HEAD-XVSZ	Head - Gravel, Sand And Silt	Gravel, Sand And Silt



ID	Location	LEX Code	Description	Rock description
5	95m NW	TPGR-XSV	Taplow Gravel Formation - Sand And Gravel	Sand And Gravel
6	125m W	TPGR-XSV	Taplow Gravel Formation - Sand And Gravel	Sand And Gravel
7	287m E	LHGR-XSV	Lynch Hill Gravel Member - Sand And Gravel	Sand And Gravel
8	348m N	HEAD-C	Head - Clay (unlithified Deposits Coding Scheme)	Clay
9	388m N	TPGR-XSV	Taplow Gravel Formation - Sand And Gravel	Sand And Gravel
10	478m NW	ALV-Z	Alluvium - Silt (unlithified Deposits Coding Scheme)	Silt

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

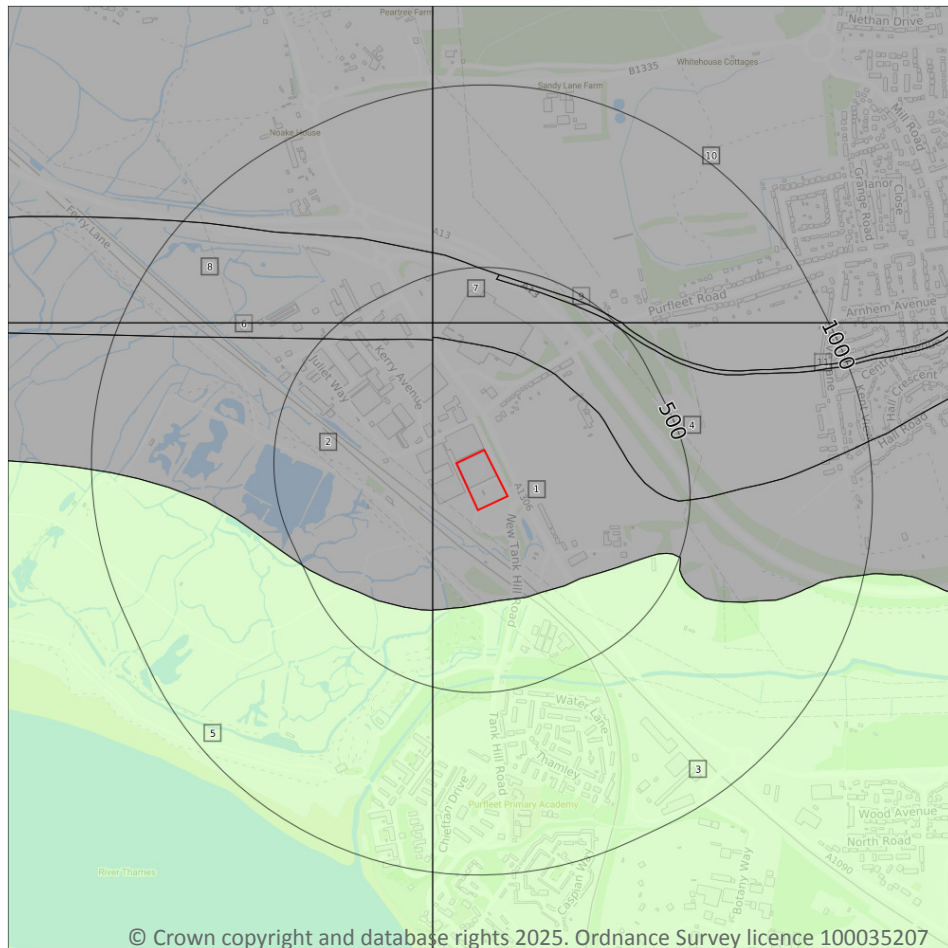
0

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

11

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 111](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	TAB-SANDU	Thanet Sand Formation - Sand	Thanetian Age
2	65m W	TAB-SANDU	Thanet Sand Formation - Sand	Thanetian Age
3	254m S	SECK-CHLK	Seaford Chalk Formation - Chalk	Santonian Age - Coniacian Age



ID	Location	LEX Code	Description	Rock age
4	275m N	LMBE-SANCL	Lambeth Group - Sand And Clay	Paleocene Epoch
5	302m S	SECK-CHLK	Seaford Chalk Formation - Chalk	Santonian Age - Coniacian Age
6	332m N	LMBE-SANCL	Lambeth Group - Sand And Clay	Paleocene Epoch
7	348m N	LMBE-SACL	Lambeth Group - Sandy Clay	Paleocene Epoch
8	376m N	LMBE-SACL	Lambeth Group - Sandy Clay	Paleocene Epoch
9	457m N	HWH-SANDU	Harwich Formation - Sand	Eocene Epoch - Paleocene Epoch
10	470m N	LC-CLAY	London Clay Formation - Clay	Eocene Epoch
11	495m NE	HWH-SANDU	Harwich Formation - Sand	Eocene Epoch - Paleocene Epoch

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

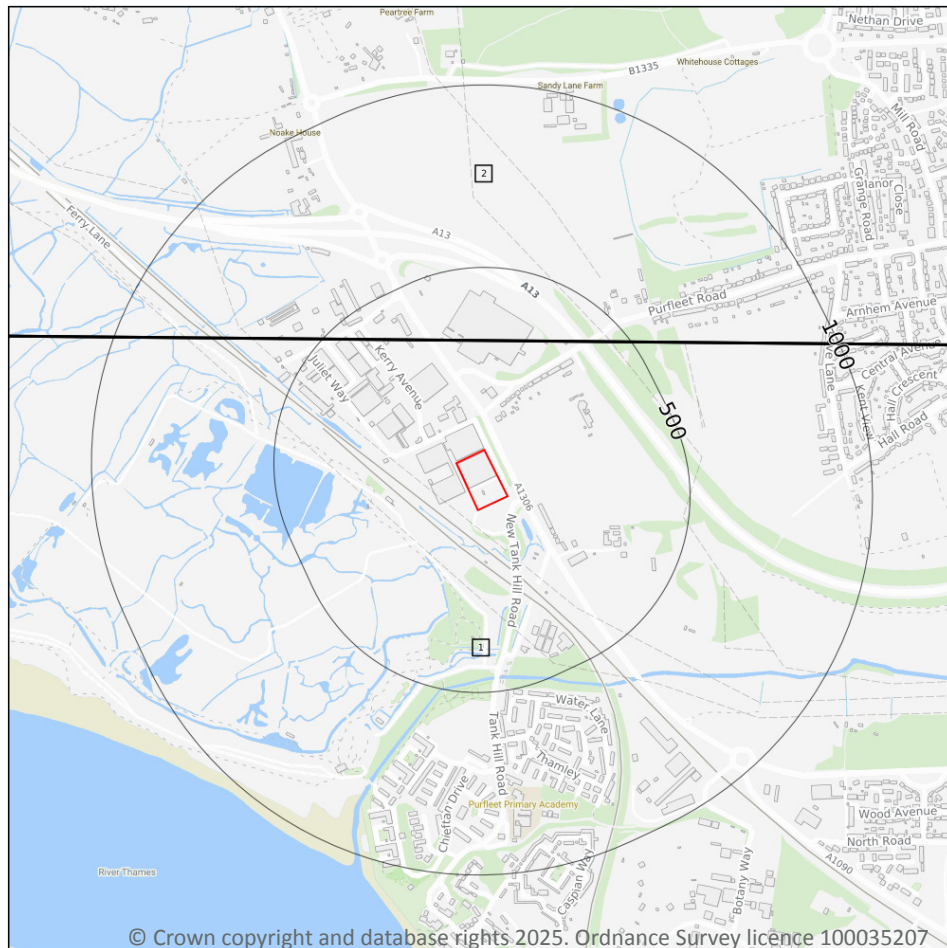
0

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

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



— Site Outline

Search buffers in metres (m)

□ Geological map tile

15.1 50k Availability

Records within 500m

2

An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

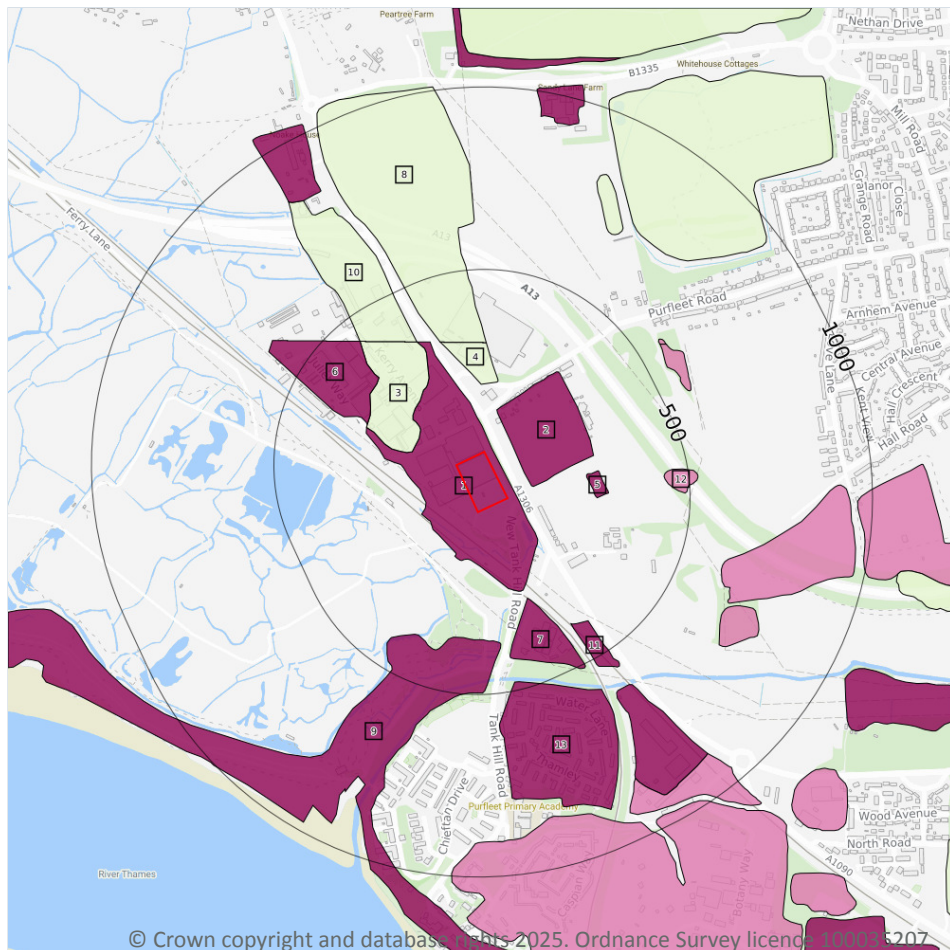
Features are displayed on the Geology 1:50,000 scale - Availability map on [page 113](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW271_dartford_v4
2	300m N	Full	Full	Full	Full	EW257_romford_v4

This data is sourced from the British Geological Survey.



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



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

15.2 Artificial and made ground (50k)

Records within 500m

13

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

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on [page 114](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	72m E	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
3	124m NW	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
4	185m N	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT



ID	Location	LEX Code	Description	Rock description
5	224m E	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
6	268m NW	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
7	271m S	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
8	299m N	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
9	346m S	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
10	351m NW	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
11	385m SE	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
12	433m E	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID
13	477m S	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

1

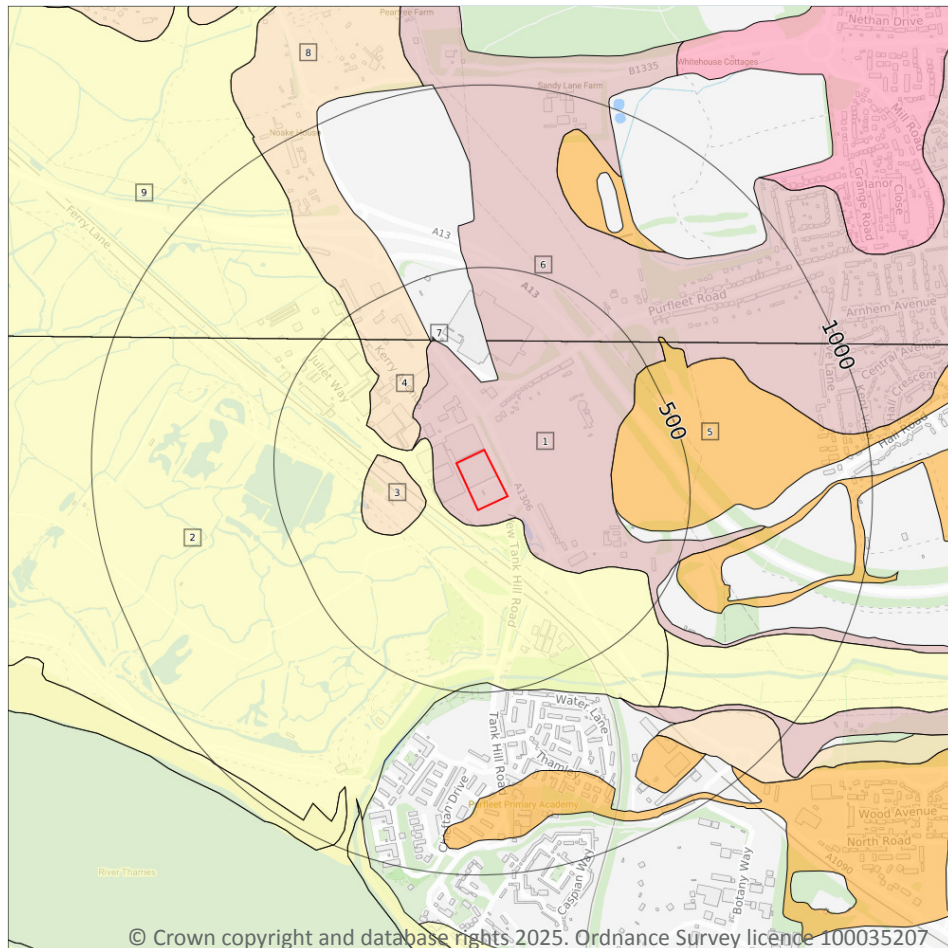
A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

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

15.4 Superficial geology (50k)

Records within 500m

9

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 116 >](#)

ID	Location	LEX Code	Description	Rock description
1	On site	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
2	43m S	ALV-XCZSP	ALLUVIUM	CLAY, SILT, SAND AND PEAT
3	118m W	TPGR-XSV	TAPLOW GRAVEL MEMBER	SAND AND GRAVEL



ID	Location	LEX Code	Description	Rock description
4	124m NW	TPGR-XSV	TAPLOW GRAVEL MEMBER	SAND AND GRAVEL
5	287m E	LHGR-XSV	LYNCH HILL GRAVEL MEMBER	SAND AND GRAVEL
6	299m N	HEAD- XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
7	330m N	HEAD- XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
8	336m N	TPGR-XSV	TAPLOW GRAVEL MEMBER	SAND AND GRAVEL
9	430m NW	ALV-XCZSP	ALLUVIUM	CLAY, SILT, SAND AND PEAT

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	Very Low
43m S	Intergranular	Moderate	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

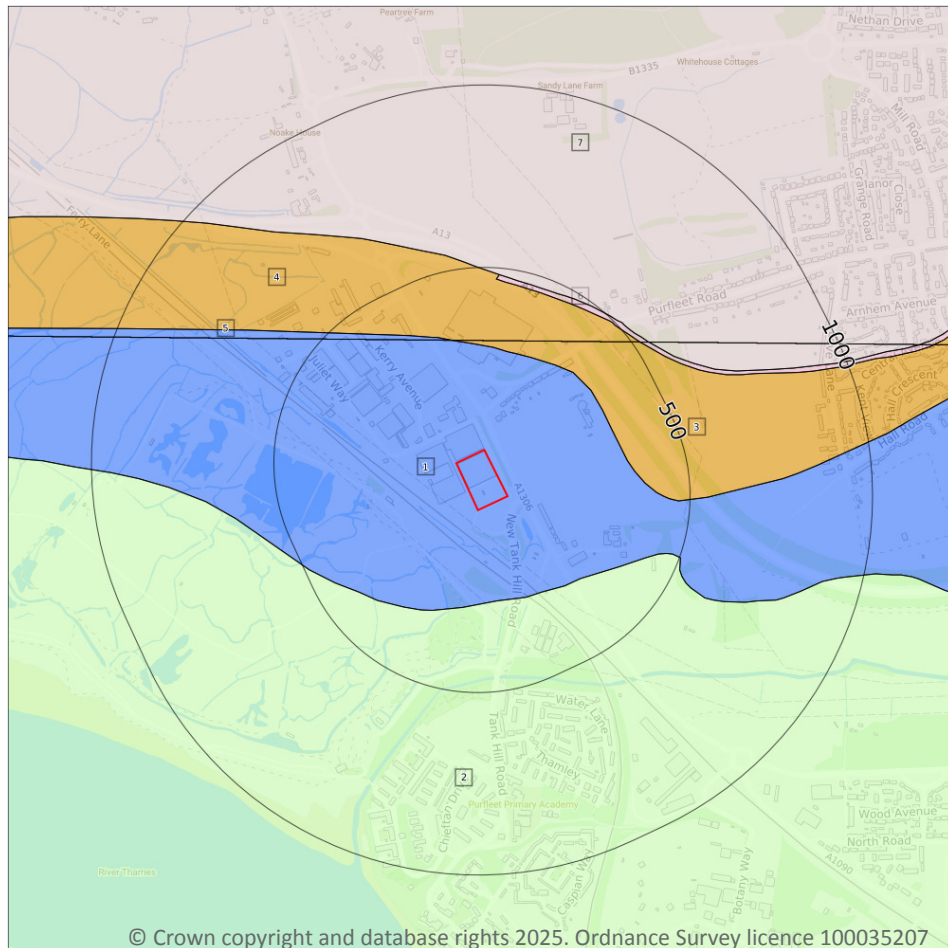
0

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

7

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 119](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	TAB-S	THANET FORMATION - SAND	THANETIAN
2	254m S	LSNCK-CHLK	LEWES NODULAR CHALK FORMATION, SEAFORD CHALK FORMATION AND NEWHAVEN CHALK FORMATION (UNDIFFERENTIATED) - CHALK	TURONIAN
3	277m N	LMBE-XSZC	LAMBETH GROUP - SAND, SILT AND CLAY	THANETIAN



ID	Location	LEX Code	Description	Rock age
4	299m N	LMBE-XCZS	LAMBETH GROUP - CLAY, SILT AND SAND	THANETIAN
5	313m N	TAB-S	THANET FORMATION - SAND	THANETIAN
6	457m N	HWH-XSV	HARWICH FORMATION - SAND AND GRAVEL	YPRESIAN
7	470m N	LC-XCZS	LONDON CLAY FORMATION - CLAY, SILT AND SAND	YPRESIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	1
---------------------------	----------

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Intergranular	High	High

This data is sourced from the British Geological Survey.

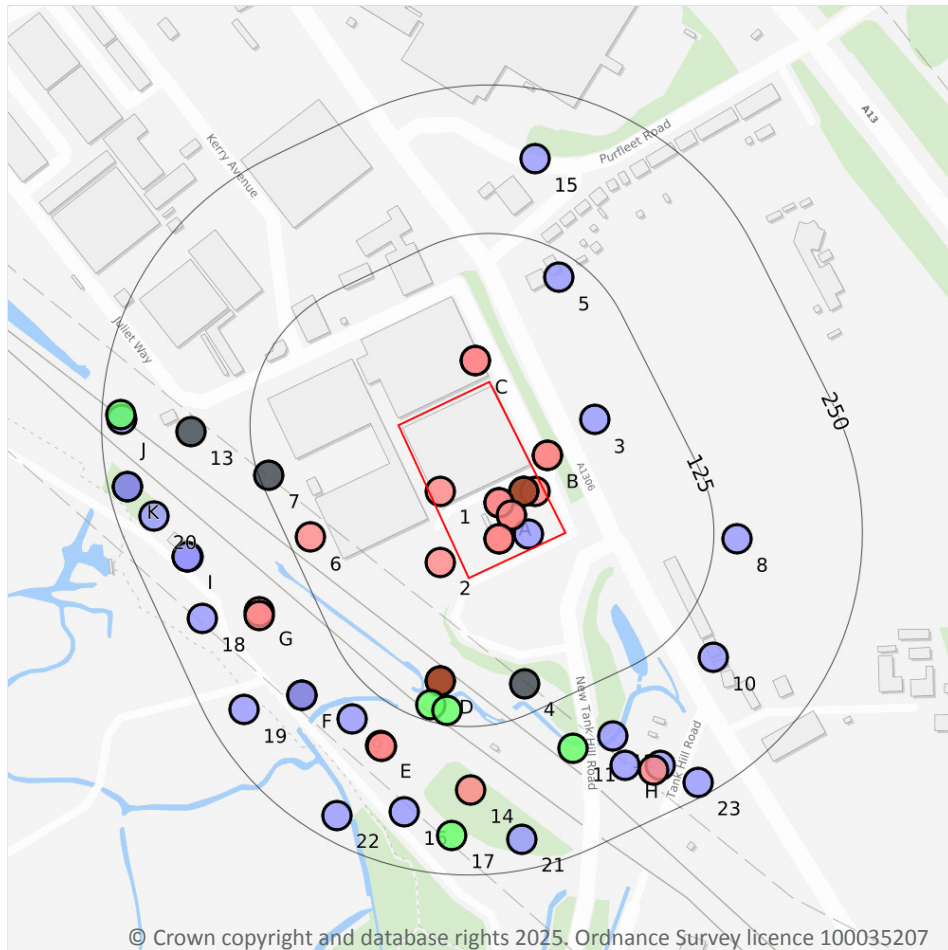
15.10 Bedrock faults and other linear features (50k)

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

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.

This data is sourced from the British Geological Survey.

16 Boreholes



— Site Outline
Search buffers in metres (m)

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

16.1 BGS Boreholes

Records within 250m

55

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

Features are displayed on the Boreholes map on [page 121](#) >

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	555100 179560	CHANNEL TUNNEL RAIL LINK G730089	45.72	N	15620646 ↗
A	On site	555150 179550	RIFLE RANGE PURFLEET 1	45.72	N	909093 ↗



ID	Location	Grid reference	Name	Length	Confidential	Web link
A	On site	555160 179540	RIFLE RANGE PURFLEET 2	45.72	N	909094 ↗
A	On site	555150 179520	RIFLE RANGE PURFLEET	45.72	N	909095 ↗
A	On site	555180 179560	RIFLE RANGE PURFLEET	45.72	N	909096 ↗
A	On site	555170 179560	RIFLE RANGE, PURFLEET	-1.0	N	909990 ↗
A	On site	555174 179524	CHANNEL TUNNEL RAIL LINK TP7659	4.1	N	15615537 ↗
A	On site	555150 179550	CHANNEL TUNNEL RAIL LINK G730085	45.72	N	15620641 ↗
A	On site	555160 179540	CHANNEL TUNNEL RAIL LINK G730086	45.72	N	15620643 ↗
A	On site	555150 179520	CHANNEL TUNNEL RAIL LINK G730087	45.72	N	15620644 ↗
B	16m E	555190 179590	RIFLE RANGE PURFLEET	45.72	N	909097 ↗
B	16m E	555190 179590	CHANNEL TUNNEL RAIL LINK G730088	45.72	N	15620645 ↗
2	16m SW	555100 179500	CHANNEL TUNNEL RAIL LINK G730099	138.68	N	15620678 ↗
C	21m N	555130 179670	RIFLE RANGE PURFLEET	122.83	N	909098 ↗
C	21m N	555130 179670	CHANNEL TUNNEL RAIL LINK G730090	122.84	N	15620648 ↗
3	65m NE	555230 179620	AVELEY-PURFLEET GARRISON OUTFALL BH17	8.0	N	909075 ↗
D	90m S	555100 179400	RIFLE RANGE, PURFLEET	-1.0	N	909991 ↗
4	100m S	555171 179398	UNION RAILWAYS OVERHEAD LINE ZBA20A	-	Y	N/A
5	106m N	555200 179740	AVELEY-PURFLEET GARRISON OUTFALL BH13	8.0	N	909072 ↗
6	107m W	554991 179521	CHANNEL TUNNEL RAIL LINK SA7604	30.1	N	15620372 ↗
D	111m S	555092 179380	PURFLEET RIFLE RANGE 2	15.39	N	909847 ↗
D	113m S	555106 179375	PURFLEET RIFLE RANGE 1	15.39	N	909846 ↗
7	117m W	554956 179573	UNION RAILWAYS OVERHEAD LINE ZBA21	-	Y	N/A
8	145m E	555350 179520	AVELEY-PURFLEET GARRISON OUTFALL BH14	10.0	N	909073 ↗
9	154m SW	555026 179368	CHANNEL TUNNEL RAIL LINK TP8896	2.3	N	15615519 ↗



ID	Location	Grid reference	Name	Length	Confidential	Web link
E	159m S	555050 179346	CHANNEL TUNNEL RAIL LINK RC3500A	35.01	N	15620846 ↗
E	159m S	555051 179345	CHANNEL TUNNEL RAIL LINK SR3500	35.01	N	15620845 ↗
10	163m SE	555330 179420	AVELEY-PURFLEET GARRISON OUTFALL BH16	7.0	N	909074 ↗
11	167m S	555212 179343	CHANNEL TUNNEL RAIL LINK SA7605	25.0	N	15620769 ↗
12	171m SE	555245 179354	CHANNEL TUNNEL RAIL LINK TP8898	4.0	N	15615522 ↗
F	171m SW	554984 179388	UNION R'WAY GND INV PHI TP1215	-	Y	N/A
F	171m SW	554984 179388	CHANNEL TUNNEL RAIL LINK OP1215	2.51	N	15620360 ↗
G	172m SW	554948 179458	CHANNEL TUNNEL RAIL LINK SA3524	35.01	N	15620370 ↗
G	173m SW	554948 179455	CHANNEL TUNNEL RAIL LINK SR3499	34.96	N	15620377 ↗
13	175m W	554890 179610	CTRL DAGENHAM ZBA 21	-	Y	N/A
14	179m S	555126 179308	CHANNEL TUNNEL RAIL LINK SR3501	35.01	N	15620847 ↗
15	192m N	555180 179840	A13 LONDON-TILBURY T.R. 24	3.0	N	908984 ↗
H	199m SE	555256 179329	CHANNEL TUNNEL RAIL LINK TP7663	3.1	N	15615442 ↗
16	204m S	555070 179290	BARKING/WEST THURROCK TA 29	8.38	N	908970 ↗
I	207m W	554888 179505	CHANNEL TUNNEL RAIL LINK CP3498	1.41	N	15615379 ↗
I	208m W	554887 179505	CHANNEL TUNNEL RAIL LINK CP3498A	1.61	N	15620352 ↗
I	208m W	554887 179505	CHANNEL TUNNEL RAIL LINK CP3498B	1.41	N	15620353 ↗
H	211m SE	555285 179329	CHANNEL TUNNEL RAIL LINK CP1217A	8.61	N	15620450 ↗
H	213m SE	555280 179325	CHANNEL TUNNEL RAIL LINK SR1225	30.01	N	15620807 ↗
17	217m S	555110 179270	UNION RAIL PURFLEET ZR35	25.35	N	909941 ↗

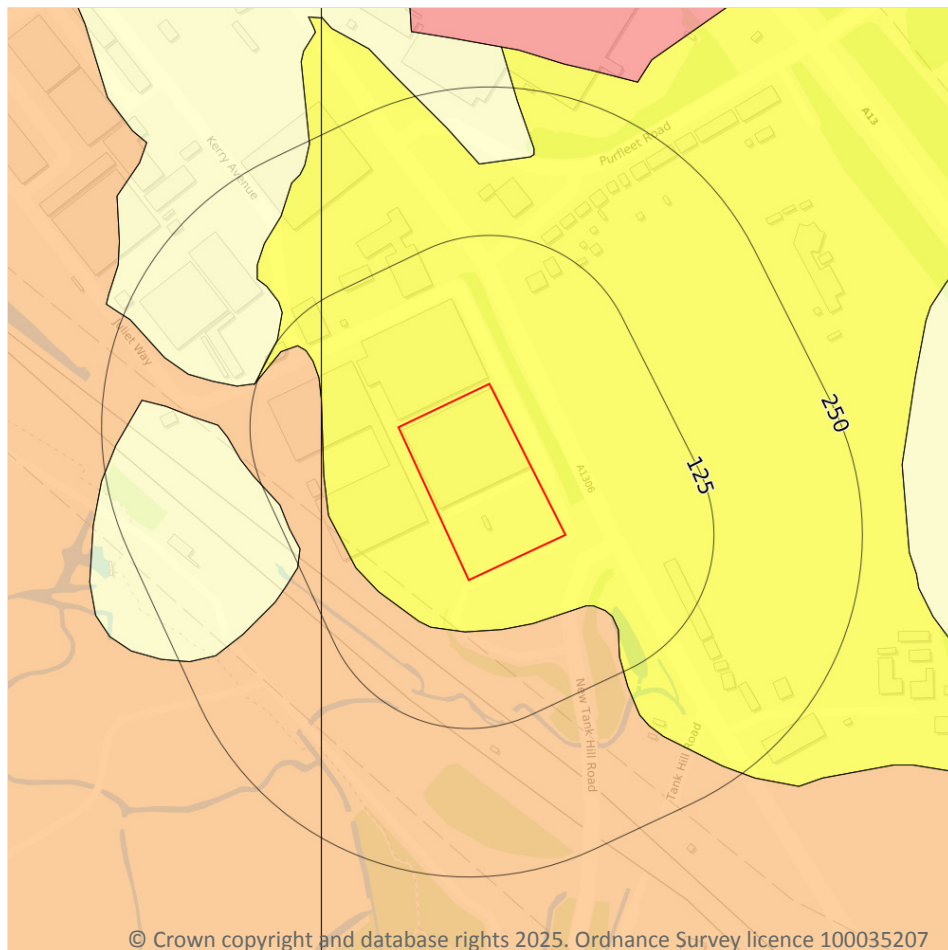


ID	Location	Grid reference	Name	Length	Confidential	Web link
18	218m SW	554900 179453	CHANNEL TUNNEL RAIL LINK TP2820	4.51	N	15615395 ↗
19	219m SW	554935 179376	CHANNEL TUNNEL RAIL LINK TP2821	3.11	N	15615397 ↗
20	220m W	554859 179539	CHANNEL TUNNEL RAIL LINK TP2818	4.21	N	15615390 ↗
21	224m S	555169 179267	CHANNEL TUNNEL RAIL LINK SA8897	10.0	N	15620790 ↗
22	229m SW	555013 179287	CHANNEL TUNNEL RAIL LINK TP2822	4.31	N	15615412 ↗
J	233m W	554832 179620	CHANNEL TUNNEL RAIL LINK TP7662	1.2	N	15615399 ↗
K	234m W	554837 179564	UNION R'WAY GROUND INV PHI TP1214	-	Y	N/A
K	234m W	554837 179564	CHANNEL TUNNEL RAIL LINK OP1214	4.5	N	15620359 ↗
J	234m W	554831 179624	CHANNEL TUNNEL RAIL LINK SA7603	30.0	N	15620371 ↗
23	238m SE	555317 179315	CHANNEL TUNNEL RAIL LINK SA8899	8.3	N	15620792 ↗

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



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

17.1 Shrink swell clays

Records within 50m

2

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

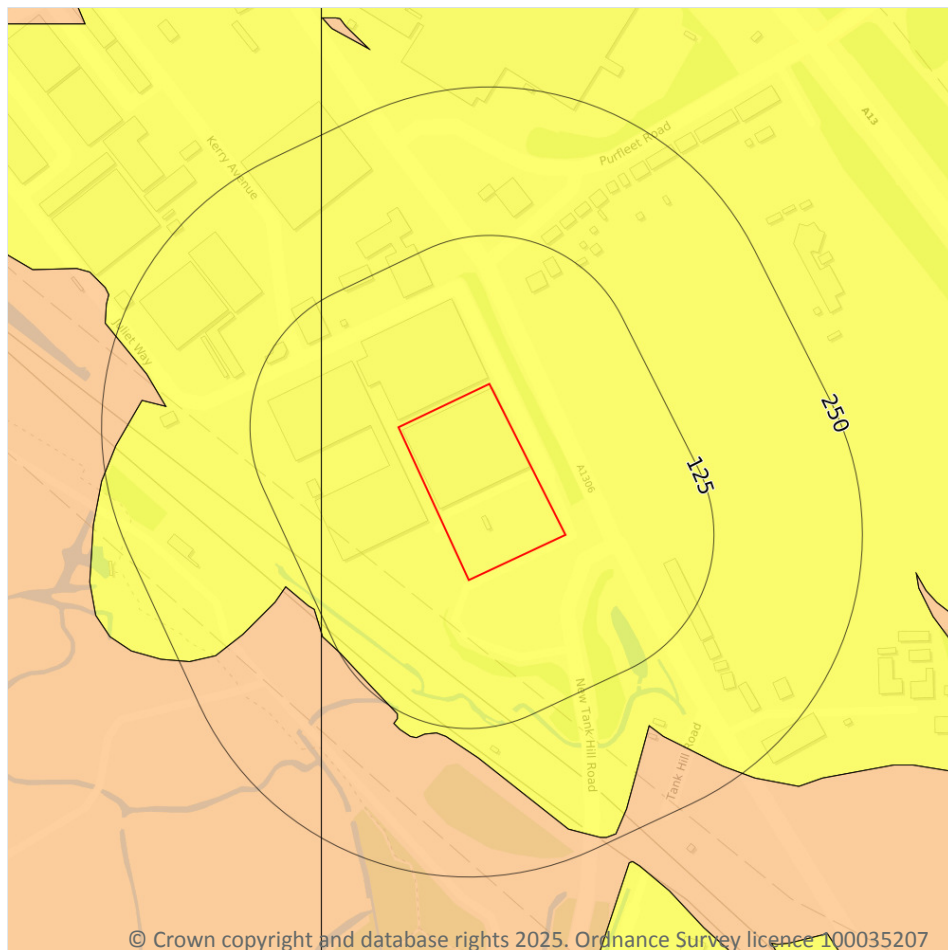
Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 125](#) >

Location	Hazard rating	Details
On site	Very low	Ground conditions predominantly low plasticity.
43m S	Low	Ground conditions predominantly medium plasticity.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



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

17.2 Running sands

Records within 50m

1

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

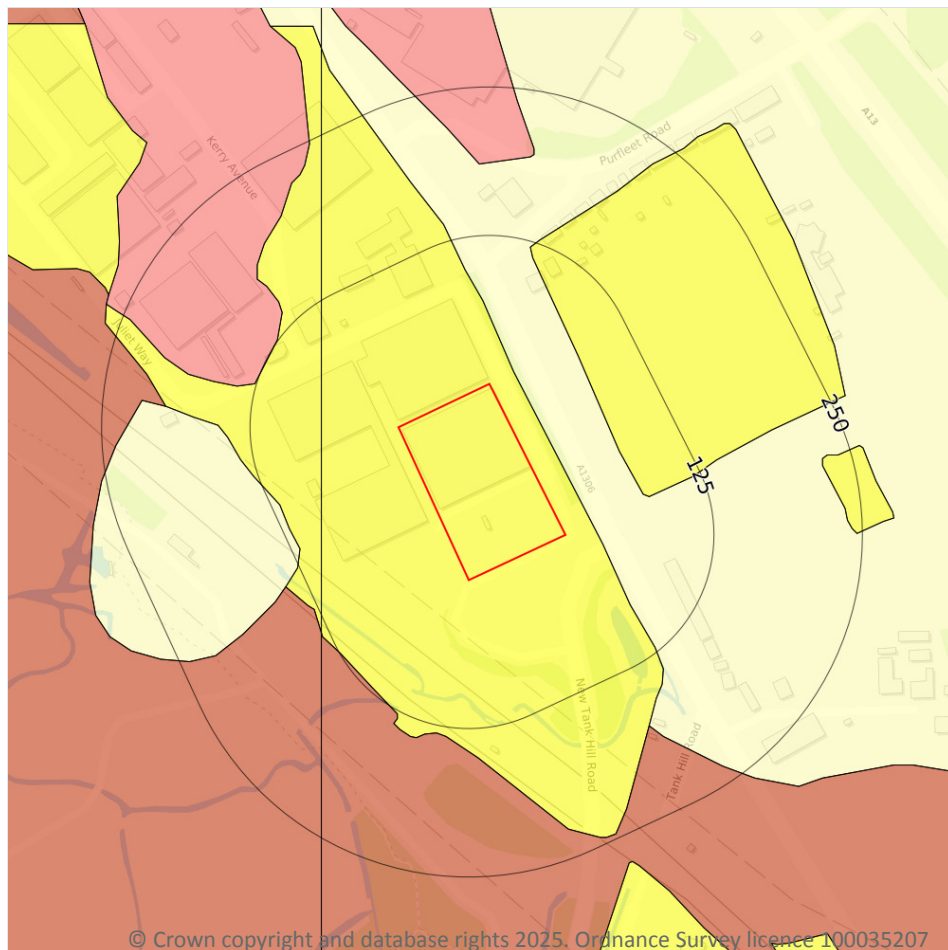
Features are displayed on the Natural ground subsidence - Running sands map on [page 126 >](#)

Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



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

17.3 Compressible deposits

Records within 50m

2

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

Features are displayed on the Natural ground subsidence - Compressible deposits map on [page 127 >](#)

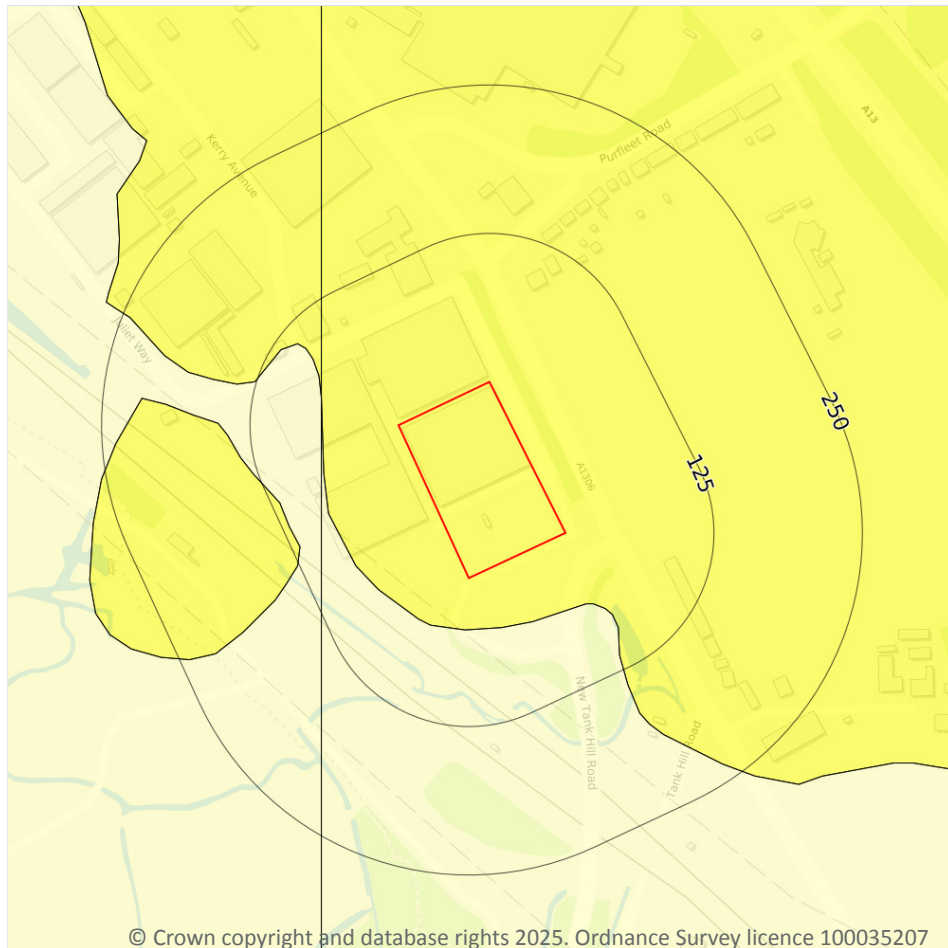
Location	Hazard rating	Details
On site	Very low	Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses.
23m N	Negligible	Compressible strata are not thought to occur.



This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



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

17.4 Collapsible deposits

Records within 50m

2

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

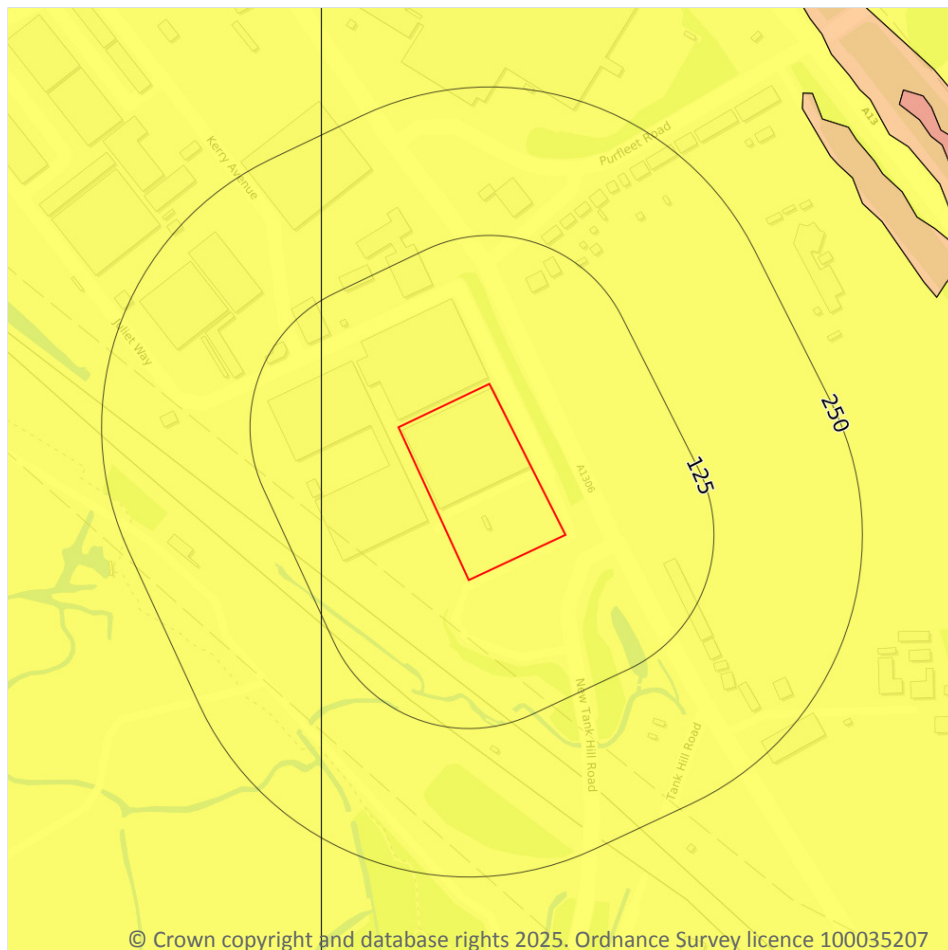
Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 129 >](#)

Location	Hazard rating	Details
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.
43m S	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Landslides



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

17.5 Landslides

Records within 50m

1

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

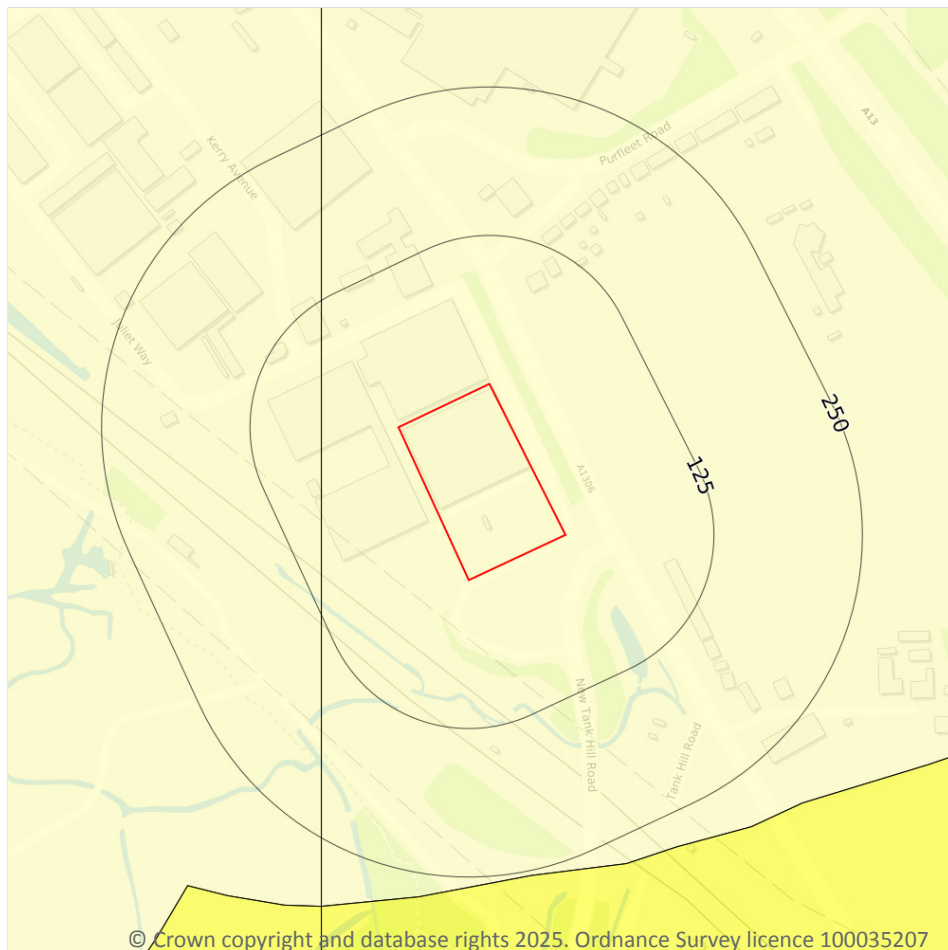
Features are displayed on the Natural ground subsidence - Landslides map on [page 130](#) >

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



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

17.6 Ground dissolution of soluble rocks

Records within 50m

1

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

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on [page 131](#) >

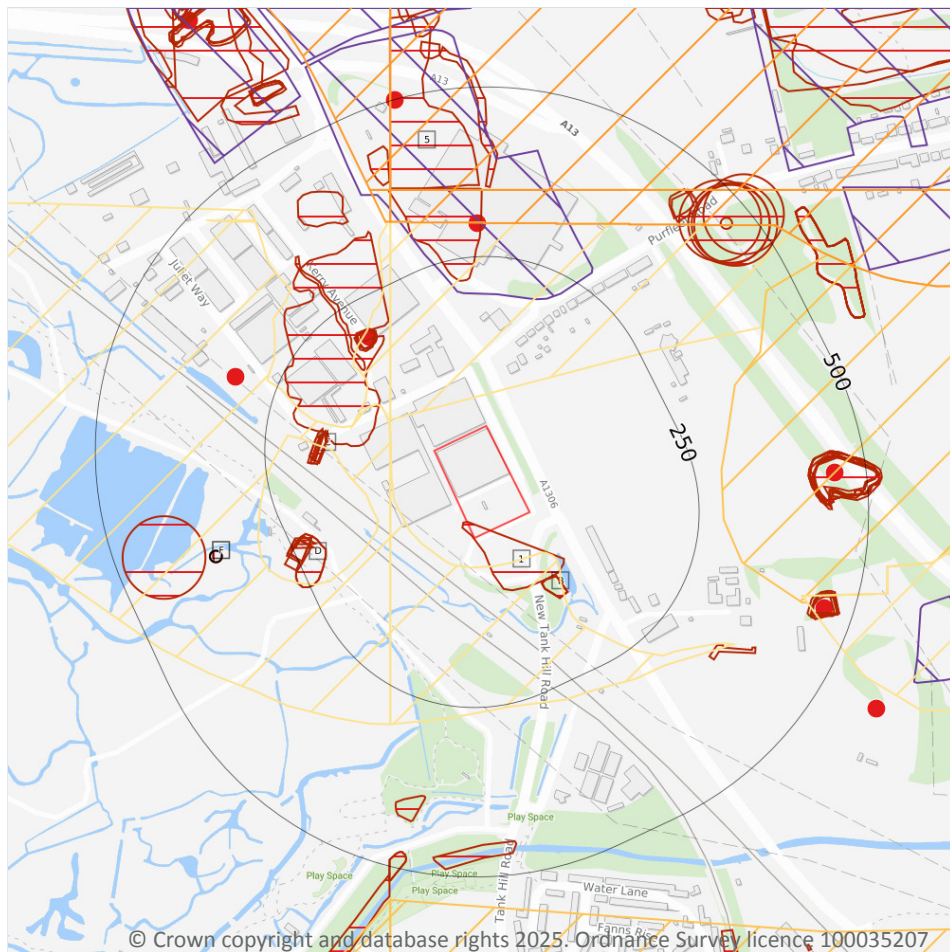
Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.



This data is sourced from the British Geological Survey.



18 Mining and ground workings



- Site Outline
- Search buffers in metres (m)
- BritPits
- ▨ Surface ground workings
- ▨ Underground workings
- ▨ Underground mining extents
- ▨ Historical mineral planning areas
- ▨ TCA non-coal mining
- Non Coal Mining
- ▨ Sporadic underground mining of restricted extent possible
- ▨ Localised small scale underground mining possible
- ▨ Small scale mining possible
- ▨ Underground mining known or likely within or in close proximity
- ▨ Underground mining known within or in very close proximity

18.1 BritPits

Records within 500m

6

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

Features are displayed on the Mining and ground workings map on [page 133](#) >

ID	Location	Details	Description
A	193m NW	Name: Marshfoot House Gravel Pit Address: Aveley, SOUTH OCKENDON, Essex Commodity: Sand & Gravel Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
E	299m N	Name: London Road Gravel Pit Address: Wennington, RAINHAM, Essex Commodity: Sand & Gravel Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
8	312m NW	Name: Seales Recycling Address: Purfleet, GRAYS, Essex Commodity: Secondary Status: Active	Type: Recycled material, construction and demolition materials recovered for use as secondary aggregates Status description: Site which is actively extracting mineral products, or in the case of wharfs and rail depots, is actively handing minerals
J	454m E	Name: Fanns Farm Gravel Pit Address: Aveley, SOUTH OCKENDON, Essex Commodity: Sand & Gravel Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
K	457m E	Name: Fanns Farm Sand Pit Address: Aveley, SOUTH OCKENDON, Essex Commodity: Sand Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
G	499m N	Name: London Road Gravel Pit Address: Wennington, RAINHAM, Essex Commodity: Sand & Gravel Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.



18.2 Surface ground workings

Records within 250m

23

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

Features are displayed on the Mining and ground workings map on [page 133](#) >

ID	Location	Land Use	Year of mapping	Mapping scale
1	On site	Unspecified Heap	1986	1:10000
A	95m NW	Old Gravel Pit	1958	1:10560
B	100m SE	Pond	1993	1:10000
B	100m SE	Pond	1986	1:10000
B	100m SE	Pond	1995	1:10000
C	157m W	Pond	1921	1:10560
A	158m NW	Unspecified Ground Workings	1967	1:10560
C	160m W	Pond	1938	1:10560
C	161m W	Pond	1921	1:10560
C	165m W	Pond	1895	1:10560
C	168m W	Pond	1865	1:10560
A	178m NW	Gravel Pit	1921	1:10560
A	179m NW	Gravel Pit	1921	1:10560
A	180m NW	Gravel Pit	1938	1:10560
A	181m NW	Refuse Heap	1938	1:10560
D	206m SW	Unspecified Pit	1973	1:10000
D	206m SW	Unspecified Pit	1967	1:10560
D	217m W	Gravel Pit	1921	1:10560
E	217m N	Gravel Pit	1955	1:10560
D	218m W	Refuse Heap	1938	1:10560
D	220m W	Refuse Heap	1921	1:10560
D	221m W	Unspecified Ground Workings	1921	1:10560
D	224m W	Sand Pit	1958	1:10560



This is data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records within 1000m

1

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

Features are displayed on the Mining and ground workings map on [page 133 >](#)

ID	Location	Land Use	Year of mapping	Mapping scale
F	349m W	Unspecified Level	1921	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground mining extents

Records within 500m

0

This data identifies underground mine workings that could present a potential risk, including adits and seam workings. These features have been identified from BGS Geological mapping and mine plans sourced from the BGS and various collections and sources.

This data is sourced from Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m

1

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

Features are displayed on the Mining and ground workings map on [page 133 >](#)

ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
5	195m N	London Road	Sand and gravel	Surface mineral working	Valid	Not available

This data is sourced from the British Geological Survey.



18.6 Non-coal mining

Records within 1000m

15

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

Features are displayed on the Mining and ground workings map on [page 133 >](#)

ID	Location	Name	Commodity	Class	Likelihood
2	43m S	Not available	Sand	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
3	45m N	Not available	Chalk	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
4	65m W	Not available	Sand	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
A	69m NW	Not available	Chalk	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
6	285m E	Not available	Chalk	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
7	299m N	Not available	Chalk	C	Underground mine workings may have occurred in the past, or current mines may be operating to modern engineering standards. Potential for difficult ground conditions should be considered.
9	333m N	Not available	Chalk	C	Underground mine workings may have occurred in the past, or current mines may be operating to modern engineering standards. Potential for difficult ground conditions should be considered.
11	348m N	Not available	Chalk	C	Underground mine workings may have occurred in the past, or current mines may be operating to modern engineering standards. Potential for difficult ground conditions should be considered.



ID	Location	Name	Commodity	Class	Likelihood
15	376m N	Not available	Chalk	C	Underground mine workings may have occurred in the past, or current mines may be operating to modern engineering standards. Potential for difficult ground conditions should be considered.
18	421m E	Not available	Chalk	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
21	541m S	Not available	Chalk	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
22	548m S	Not available	Chalk	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	724m SE	Not available	Chalk	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	776m S	Not available	Chalk	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	785m S	Not available	Chalk	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site

0

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

This data is sourced from Johnson Poole and Bloomer.



18.8 The Coal Authority non-coal mining

Records within 500m**0**

This data provides an indication of the potential zone of influence of recorded underground non-coal mining workings. Any and all analysis and interpretation of Coal Authority Data in this report is made by Groundsure, and is in no way supported, endorsed or authorised by the Coal Authority. The use of the data is restricted to the terms and provisions contained in this report. Data reproduced in this report may be the copyright of the Coal Authority and permission should be sought from Groundsure prior to any re-use.

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m**2**

This data indicates areas of potential mining identified from alternative or archival sources, including; BGS Geological paper maps, Lidar data, aerial photographs (from World War II onwards), archaeological data services, websites, Tithe maps, and various text/plans from collected books and reports. Some of this data is approximate and Groundsure have interpreted the resultant risk area and, where possible, specific areas of risk have been captured.

Location	Mineral type
185m N	Stone
356m N	Stone

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m**0**

This dataset is representative of Mining Record Office and/or plan extents held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m**0**

This dataset is representative of BGS mine plans held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.



18.12 Coal mining

Records on site	0
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Areas which could be affected by past, current or future coal mining.

This data is sourced from the Coal Authority.

18.13 Brine areas

Records on site	0
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The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

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

18.14 Gypsum areas

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

This data is sourced from British Gypsum.

18.15 Tin mining

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

This data is sourced from Groundsure.

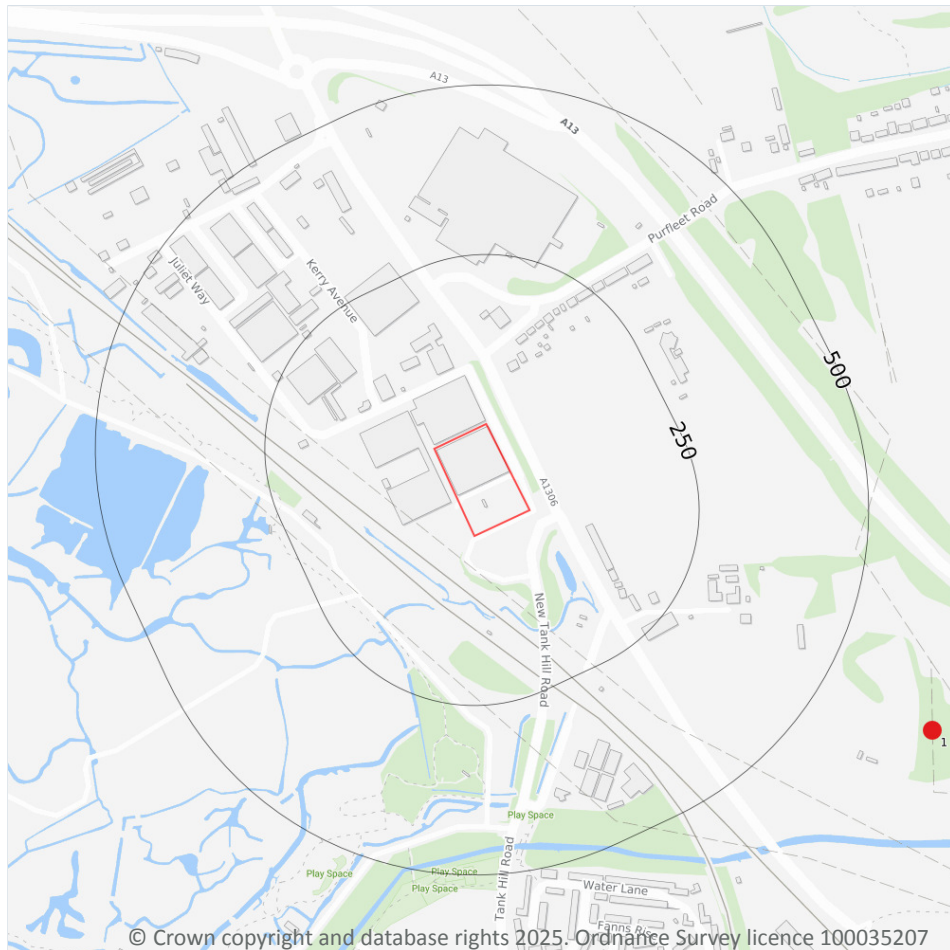
18.16 Clay mining

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

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

19 Ground cavities and sinkholes



- Site Outline
- Search buffers in metres (m)
- Natural cavities (Area)
- Natural cavities (Point)
- Mining cavities
- Reported recent incidents
- Historical incidents

19.1 Natural cavities

Records within 500m

0

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

This data is sourced from Stantec UK Ltd.

19.2 Mining cavities

Records within 1000m

2

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

Features are displayed on the Ground cavities and sinkholes map on [page 141](#) >

ID	Location	Mine Address	Mineral
1	677m SE	Aveley, Essex	Chalk
-	795m E	Aveley, Essex	Chalk

This data is sourced from Stantec UK Ltd.

19.3 Reported recent incidents

Records within 500m

0

This data identifies sinkhole information gathered from media reports and Groundsure's own records. This data goes back to 2014 and includes relative accuracy ratings for each event and links to the original data sources. The data is updated on a regular basis and should not be considered a comprehensive catalogue of all sinkhole events. The absence of data in this database does not mean a sinkhole definitely has not occurred during this time.

This data is sourced from Groundsure.

19.4 Historical incidents

Records within 500m

0

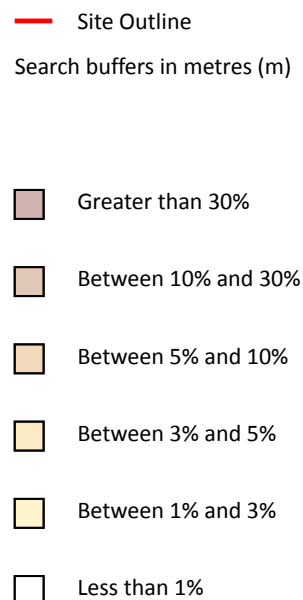
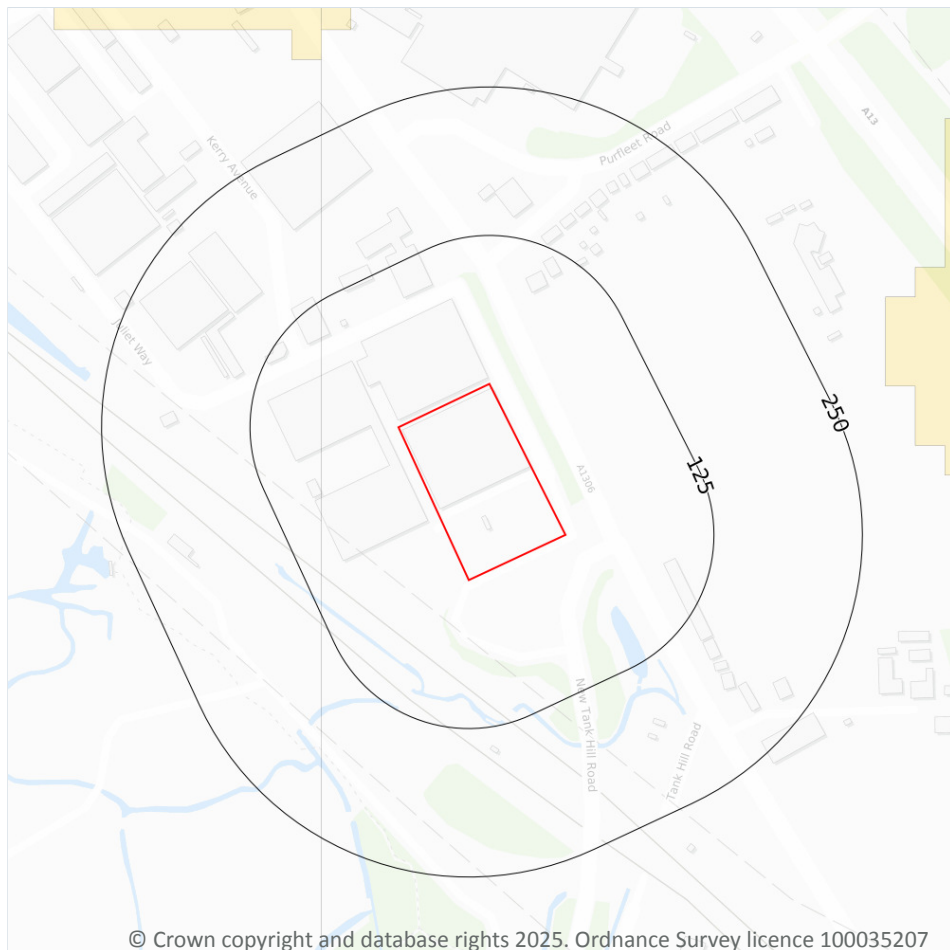
This dataset comprises an extract of 1:10,560, 1:10,000, 1:2,500 and 1:1,250 scale historical Ordnance Survey maps held by Groundsure, dating back to the 1840s. It shows shakeholes, deneholes and other 'holes' as noted on these maps. Dene holes are medieval chalk extraction pits, usually comprising a narrow shaft with a number of chambers at the base of the shaft. Shakeholes are an alternative name for suffusion sinkholes, most commonly found in the limestone landscapes of North Yorkshire but also extensively noted around the Brecon Beacons National Park.

Not all 'holes' noted on Ordnance Survey mapping will necessarily be present within this dataset.

This data is sourced from Groundsure.



20 Radon



20.1 Radon

Records on site

1

The Radon Potential data classifies areas based on their likelihood of a property having a radon level at or above the Action Level in Great Britain. The dataset is intended for use at 1:50,000 scale and was derived from both geological assessments and indoor radon measurements (more than 560,000 records). A minimum 50m buffer should be considered when searching the maps, as the smallest detectable feature at this scale is 50m. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain (1:100,000 scale).

Features are displayed on the Radon map on [page 143 >](#)

Location	Estimated properties affected	Radon Protection Measures required
On site	Less than 1%	None



This data is sourced from the British Geological Survey and UK Health Security Agency.



21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m

3

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
43m S	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m

10

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

Location	Arsenic (mg/kg)	Bioaccessible Arsenic (mg/kg)	Lead (mg/kg)	Bioaccessible Lead (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Nickel (mg/kg)	Tin (mg/kg)
On site	12	2.1	98	67	0.2	48	26	16	9
On site	12	2.1	92	63	0.1	47	24	16	8
On site	13	2.3	102	70	0.2	45	28	17	9
On site	13	2.3	102	70	0.2	43	28	17	10



Location	Arsenic (mg/kg)	Bioaccessible Arsenic (mg/kg)	Lead (mg/kg)	Bioaccessible Lead (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Nickel (mg/kg)	Tin (mg/kg)
On site	13	2.3	101	69	0.2	42	28	17	10
On site	14	2.5	109	75	0.2	40	31	18	11
16m SW	13	2.3	105	72	0.2	43	29	17	10
20m SE	14	2.5	111	76	0.2	40	32	18	12
29m NE	12	2.1	89	61	0.1	48	23	15	7
48m N	12	2.1	89	61	0.1	49	23	15	7

This data is sourced from the British Geological Survey.

21.3 BGS Measured Urban Soil Chemistry

Records within 50m	0
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The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km².

This data is sourced from the British Geological Survey.

22 Railway infrastructure and projects



- Site Outline
- Search buffers in metres (m)
- C2 Crossrail 2 Stations
- Crossrail 2 Route
- Crossrail 2 Worksites
- Crossrail 2 Safeguarding
- Crossrail 2 Headhouses
- Railway stations
- Active railways
- Active tunnels
- Abandoned railways
- Historic railways
- Historic tunnels
- Underground stations
- Underground Lines
- Royal Mail tunnels
- HS2 optimised route
- HS2 Stations
- HS2 Depots
- HS2 Surface Safeguarding
- HS2 Subsurface Safeguarding

22.1 Underground railways (London)

Records within 250m

0

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

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m

0

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



This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m

12

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

Features are displayed on the Railway infrastructure and projects map on [page 147](#) >

Location	Land Use	Year of mapping	Mapping scale
97m S	Railway Sidings	1955	10560
99m SW	Railway Sidings	1938	10560
102m SW	Railway Sidings	1921	10560
104m S	Railway Sidings	1895	10560
107m S	Railway Sidings	1897	2500
110m S	Railway Sidings	1898	10560
117m SW	Tramway Sidings	1938	10560
122m SW	Tramway Sidings	1921	10560
144m S	Railway Sidings	1966	10560
162m SW	Tramway Sidings	1921	10560
170m SW	Tramway Sidings	1921	10560
213m W	Tramway Sidings	1939	2500

This data is sourced from Ordnance Survey/Groundsure.



22.5 Royal Mail tunnels

Records within 250m**0**

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

This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m**0**

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

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m**12**

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways. Features are displayed on the Railway infrastructure and projects map on [page 147 >](#)

Location	Name	Type
67m S	Aveley Viaduct	rail
72m S	Aveley Viaduct	rail
72m S	High Speed 1	rail
72m S	Not given	Multi Track
76m S	High Speed 1	rail
109m SW	Tilbury Loop Line	rail
109m SW	Not given	Multi Track
112m SW	Tilbury Loop Line	rail
209m W	Not given	Multi Track
209m S	Not given	Multi Track
239m W	Not given	Multi Track
246m S	Not given	Multi Track



This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 2

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

22.9 HS2

Records within 500m

0

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

This data is sourced from HS2 Ltd.



Data providers

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

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