APPENDIX 2 – GROUNDSURE REPORTS

Groundsure
LOCATION INTELLIGENCE

Enviro+Geo Insight

Elleray Hall & North Lane Depot/East Car Park, Teddington, TW11, TW11,

Order Details

Date: 09/11/2020

Your ref: P3152JJ2114-1

Our Ref: HMD-377-7235247

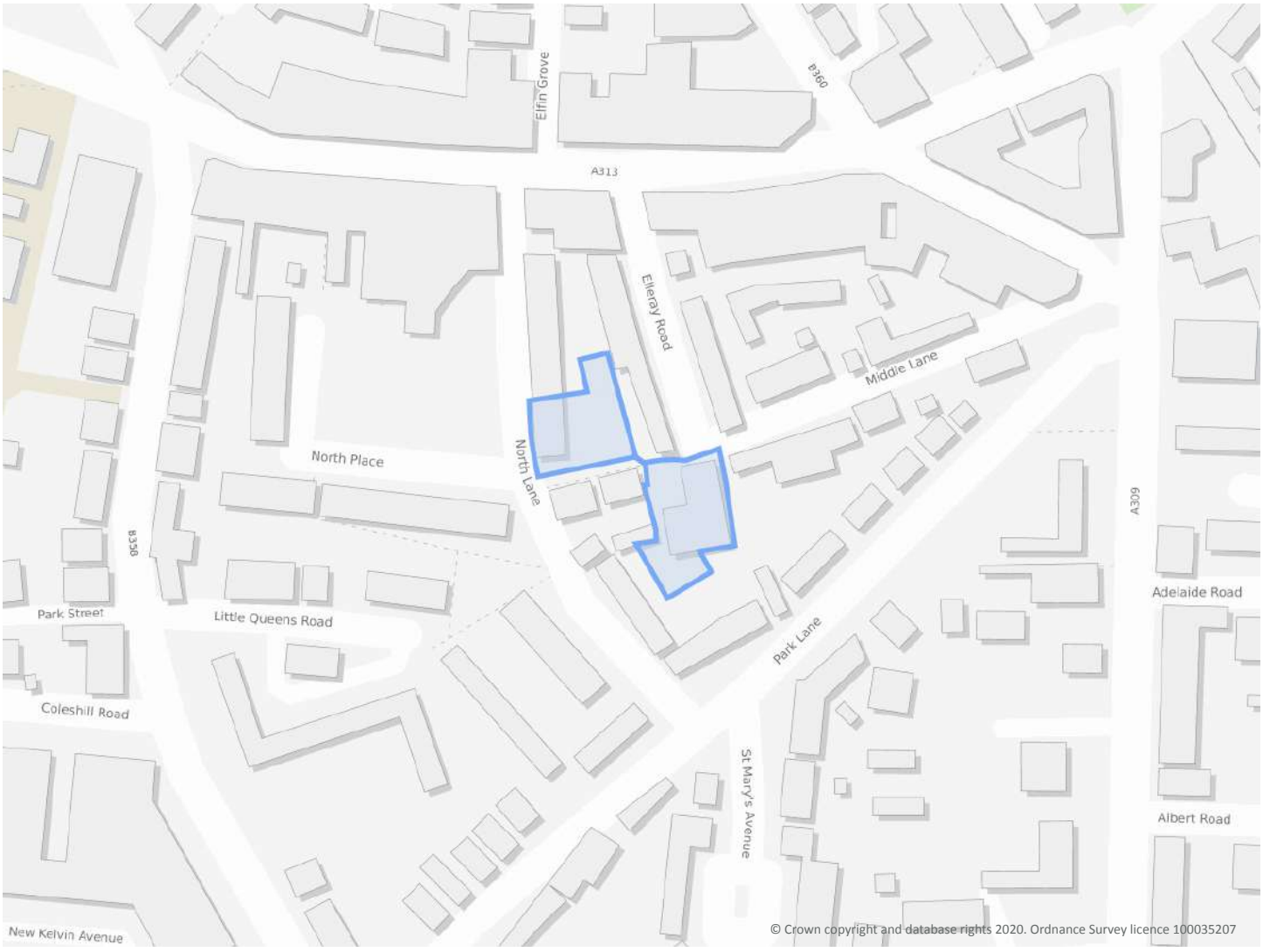
Client: Jomas Associates Ltd

Site Details

Location: 515688 170873

Area: 0.24 ha

Authority: London Borough of Richmond upon Thames



Contact us with any questions at:
info@groundsure.com
08444 159 000

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
14	1.1	Historical industrial land uses	0	0	48	59	-
18	1.2	Historical tanks	0	1	4	12	-
19	1.3	Historical energy features	0	2	7	29	-
21	1.4	Historical petrol stations	0	0	0	0	-
21	1.5	Historical garages	0	3	3	3	-
22	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped	On site	0-50m	50-250m	250-500m	500-2000m
23	2.1	Historical industrial land uses	0	0	65	87	-
29	2.2	Historical tanks	0	1	4	12	-
30	2.3	Historical energy features	0	12	29	49	-
33	2.4	Historical petrol stations	0	0	0	0	-
34	2.5	Historical garages	0	7	6	4	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
35	3.1	Active or recent landfill	0	0	0	0	-
35	3.2	Historical landfill (BGS records)	0	0	0	0	-
36	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
36	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
36	3.5	Historical waste sites	0	0	0	0	-
36	3.6	Licensed waste sites	0	0	0	0	-
36	3.7	Waste exemptions	0	0	10	10	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
39	4.1	Recent industrial land uses	0	2	29	-	-
41	4.2	Current or recent petrol stations	0	0	0	1	-
42	4.3	Electricity cables	0	0	0	0	-
42	4.4	Gas pipelines	0	0	0	0	-
42	4.5	Sites determined as Contaminated Land	0	0	0	0	-

42	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
42	4.7	Regulated explosive sites	0	0	0	0	-
43	4.8	Hazardous substance storage/usage	0	0	0	0	-
43	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
43	**4.10**	**Licensed industrial activities (Part A(1))**	0	0	0	1	-
43	**4.11**	**Licensed pollutant release (Part A(2)/B)**	0	0	3	2	-
44	**4.12**	**Radioactive Substance Authorisations**	0	0	14	5	-
47	4.13	Licensed Discharges to controlled waters	0	0	0	0	-
47	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
47	**4.15**	**Pollutant release to public sewer**	0	0	1	0	-
47	4.16	List 1 Dangerous Substances	0	0	0	0	-
48	4.17	List 2 Dangerous Substances	0	0	0	0	-
48	4.18	Pollution Incidents (EA/NRW)	0	0	0	0	-
48	4.19	Pollution inventory substances	0	0	0	0	-
48	4.20	Pollution inventory waste transfers	0	0	0	0	-
48	**4.21**	**Pollution inventory radioactive waste**	0	0	1	0	-

Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
50	**5.1**	**Superficial aquifer**	Identified (within 500m)				
51	**5.2**	**Bedrock aquifer**	Identified (within 500m)				
52	**5.3**	**Groundwater vulnerability**	Identified (within 50m)				
53	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
53	5.5	Groundwater vulnerability- local information	None (within 0m)				
54	**5.6**	**Groundwater abstractions**	0	0	0	0	8
56	5.7	Surface water abstractions	0	0	0	0	0
57	5.8	Potable abstractions	0	0	0	0	0
57	5.9	Source Protection Zones	0	0	0	0	-
57	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
58	6.1	Water Network (OS MasterMap)	0	0	0	-	-

58	6.2	Surface water features	0	0	0	-	-
59	**6.3**	**WFD Surface water body catchments**	1	-	-	-	-
59	6.4	WFD Surface water bodies	0	0	0	-	-
59	**6.5**	**WFD Groundwater bodies**	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
61	7.1	Risk of Flooding from Rivers and Sea (RoFRaS)	None (within 50m)				
61	7.2	Historical Flood Events	0	0	0	-	-
61	7.3	Flood Defences	0	0	0	-	-
61	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
62	7.5	Flood Storage Areas	0	0	0	-	-
63	7.6	Flood Zone 2	None (within 50m)				
63	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
64	**8.1**	**Surface water flooding**	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding					
66	**9.1**	**Groundwater flooding**	High (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
67	**10.1**	**Sites of Special Scientific Interest (SSSI)**	0	0	0	2	1
68	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
68	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
68	10.4	Special Protection Areas (SPA)	0	0	0	0	0
68	10.5	National Nature Reserves (NNR)	0	0	0	0	0
69	**10.6**	**Local Nature Reserves (LNR)**	0	0	0	0	2
69	10.7	Designated Ancient Woodland	0	0	0	0	0
69	10.8	Biosphere Reserves	0	0	0	0	0
70	10.9	Forest Parks	0	0	0	0	0
70	10.10	Marine Conservation Zones	0	0	0	0	0
70	10.11	Green Belt	0	0	0	0	0
70	10.12	Proposed Ramsar sites	0	0	0	0	0

70	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
71	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
71	10.15	Nitrate Sensitive Areas	0	0	0	0	0
71	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
72	**10.17**	**SSSI Impact Risk Zones**	1	-	-	-	-
73	**10.18**	**SSSI Units**	0	0	0	3	3
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
76	11.1	World Heritage Sites	0	0	0	-	-
77	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
77	11.3	National Parks	0	0	0	-	-
77	**11.4**	**Listed Buildings**	0	0	8	-	-
78	**11.5**	**Conservation Areas**	0	1	1	-	-
78	11.6	Scheduled Ancient Monuments	0	0	0	-	-
79	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
80	**12.1**	**Agricultural Land Classification**	Urban (within 250m)				
81	12.2	Open Access Land	0	0	0	-	-
81	12.3	Tree Felling Licences	0	0	0	-	-
81	12.4	Environmental Stewardship Schemes	0	0	0	-	-
81	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
82	13.1	Priority Habitat Inventory	0	0	0	-	-
82	13.2	Habitat Networks	0	0	0	-	-
82	13.3	Open Mosaic Habitat	0	0	0	-	-
82	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
83	**14.1**	**10k Availability**	Identified (within 500m)				
84	**14.2**	**Artificial and made ground (10k)**	0	0	2	1	-
85	**14.3**	**Superficial geology (10k)**	1	0	0	0	-

86	14.4	Landslip (10k)	0	0	0	0	-
87	14.5	Bedrock geology (10k)	1	0	0	0	-
88	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
89	15.1	50k Availability	Identified (within 500m)				
90	15.2	Artificial and made ground (50k)	0	0	1	1	-
91	15.3	Artificial ground permeability (50k)	0	0	-	-	-
92	15.4	Superficial geology (50k)	1	0	0	0	-
93	15.5	Superficial permeability (50k)	Identified (within 50m)				
93	15.6	Landslip (50k)	0	0	0	0	-
93	15.7	Landslip permeability (50k)	None (within 50m)				
94	15.8	Bedrock geology (50k)	1	0	0	0	-
95	15.9	Bedrock permeability (50k)	Identified (within 50m)				
95	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
96	16.1	BGS Boreholes	0	0	9	-	-
Page	Section	Natural ground subsidence					
98	17.1	Shrink swell clays	Moderate (within 50m)				
99	17.2	Running sands	Very low (within 50m)				
100	17.3	Compressible deposits	Negligible (within 50m)				
101	17.4	Collapsible deposits	Very low (within 50m)				
102	17.5	Landslides	Very low (within 50m)				
103	17.6	Ground dissolution of soluble rocks	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
105	18.1	Natural cavities	0	0	0	0	-
106	18.2	BritPits	0	0	0	1	-
106	18.3	Surface ground workings	0	0	2	-	-
106	18.4	Underground workings	0	0	0	0	0
107	18.5	Historical Mineral Planning Areas	0	0	0	0	-

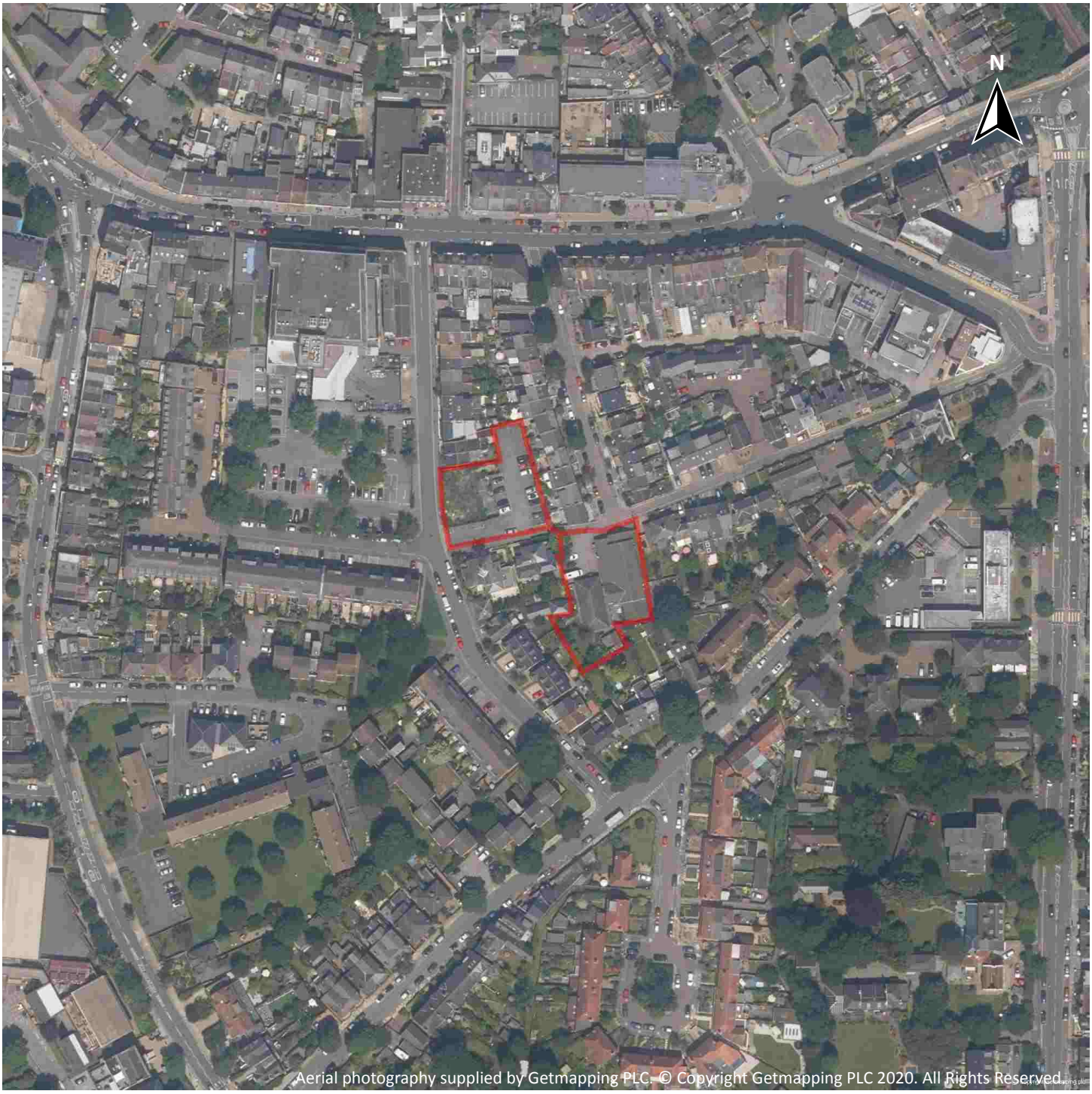
107	18.6	Non-coal mining	0	0	0	0	0
107	18.7	Mining cavities	0	0	0	0	0
107	18.8	JPB mining areas	None (within 0m)				
107	18.9	Coal mining	None (within 0m)				
108	18.10	Brine areas	None (within 0m)				
108	18.11	Gypsum areas	None (within 0m)				
108	18.12	Tin mining	None (within 0m)				
108	18.13	Clay mining	None (within 0m)				

Page	Section	Radon	
109	**19.1**	**Radon**	Less than 1% (within 0m)

Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
110	**20.1**	**BGS Estimated Background Soil Chemistry**	1	0	-	-	-
110	**20.2**	**BGS Estimated Urban Soil Chemistry**	3	3	-	-	-
111	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-

Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
112	21.1	Underground railways (London)	0	0	0	-	-
112	21.2	Underground railways (Non-London)	0	0	0	-	-
113	21.3	Railway tunnels	0	0	0	-	-
113	**21.4**	**Historical railway and tunnel features**	0	0	36	-	-
114	21.5	Royal Mail tunnels	0	0	0	-	-
115	21.6	Historical railways	0	0	0	-	-
115	**21.7**	**Railways**	0	0	6	-	-
115	21.8	Crossrail 1	0	0	0	0	-
115	**21.9**	**Crossrail 2**	0	0	2	2	-
116	21.10	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 29/06/2019

Site Area: 0.24ha

Recent site history - 2015 aerial photograph

Capture Date: 30/06/2015

Site Area: 0.24ha

Recent site history - 2011 aerial photograph

Capture Date: 30/09/2011

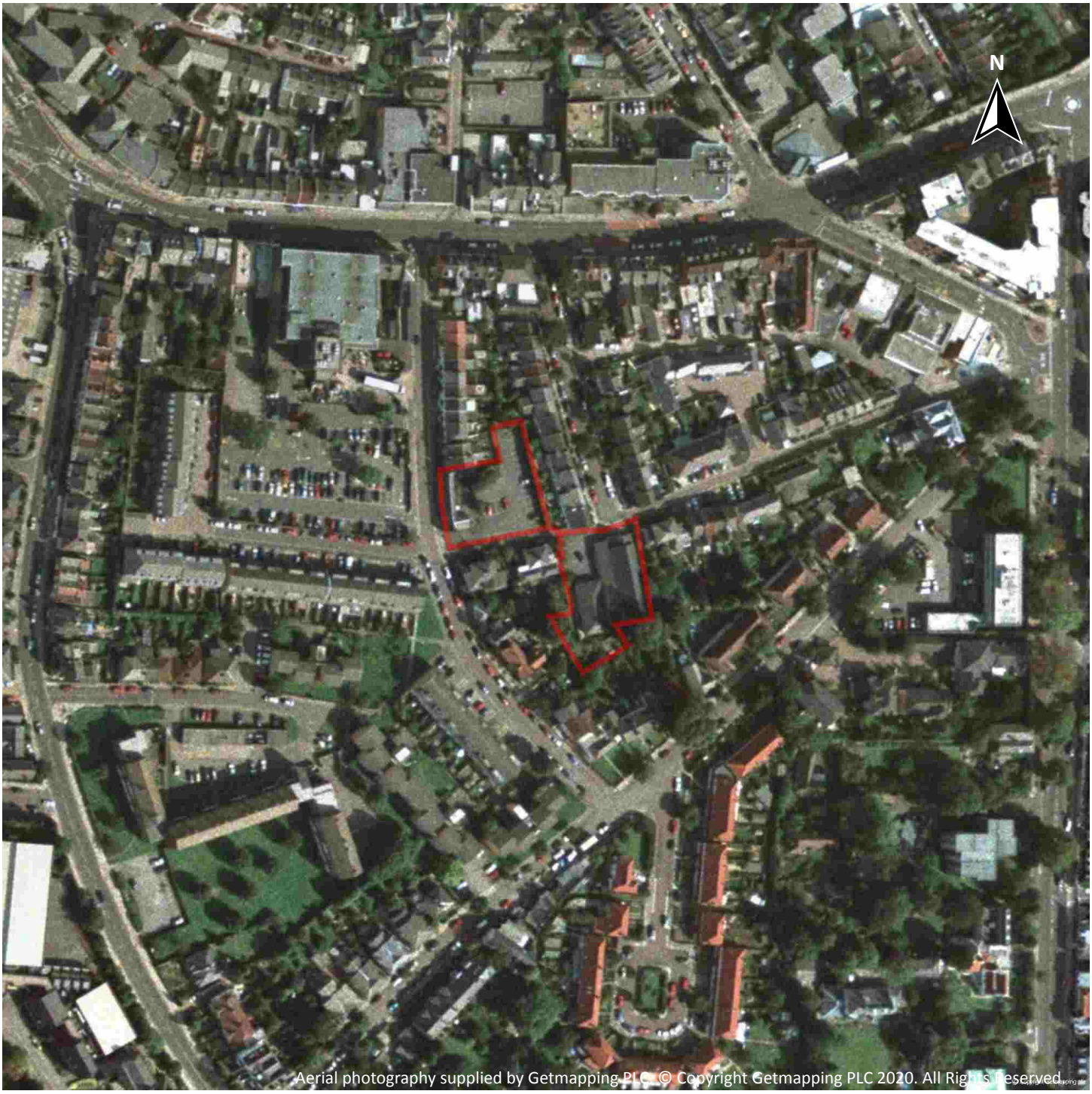
Site Area: 0.24ha

Recent site history - 2008 aerial photograph

Capture Date: 21/09/2008

Site Area: 0.24ha

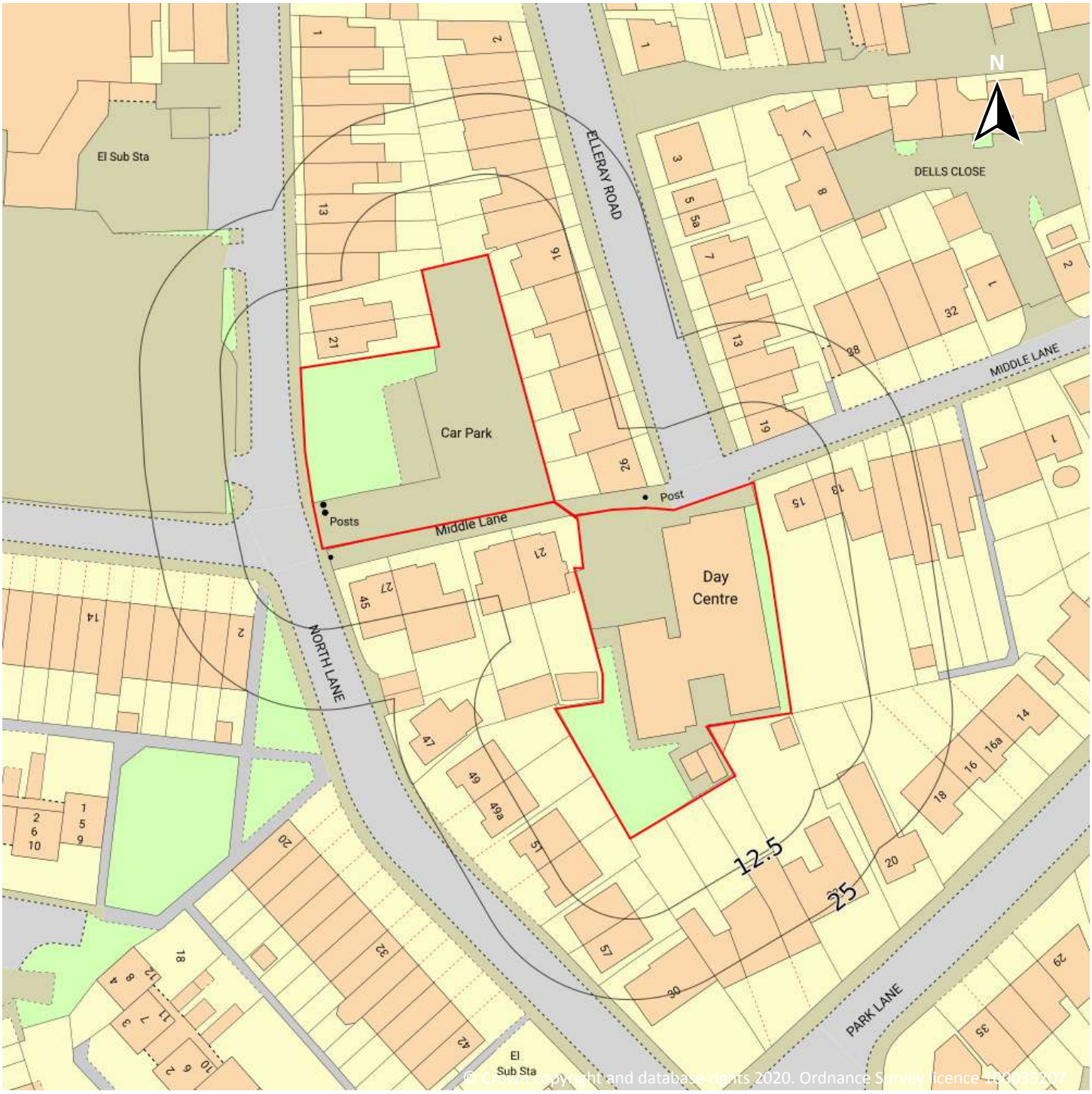
Recent site history - 1999 aerial photograph



Capture Date: 29/08/1999

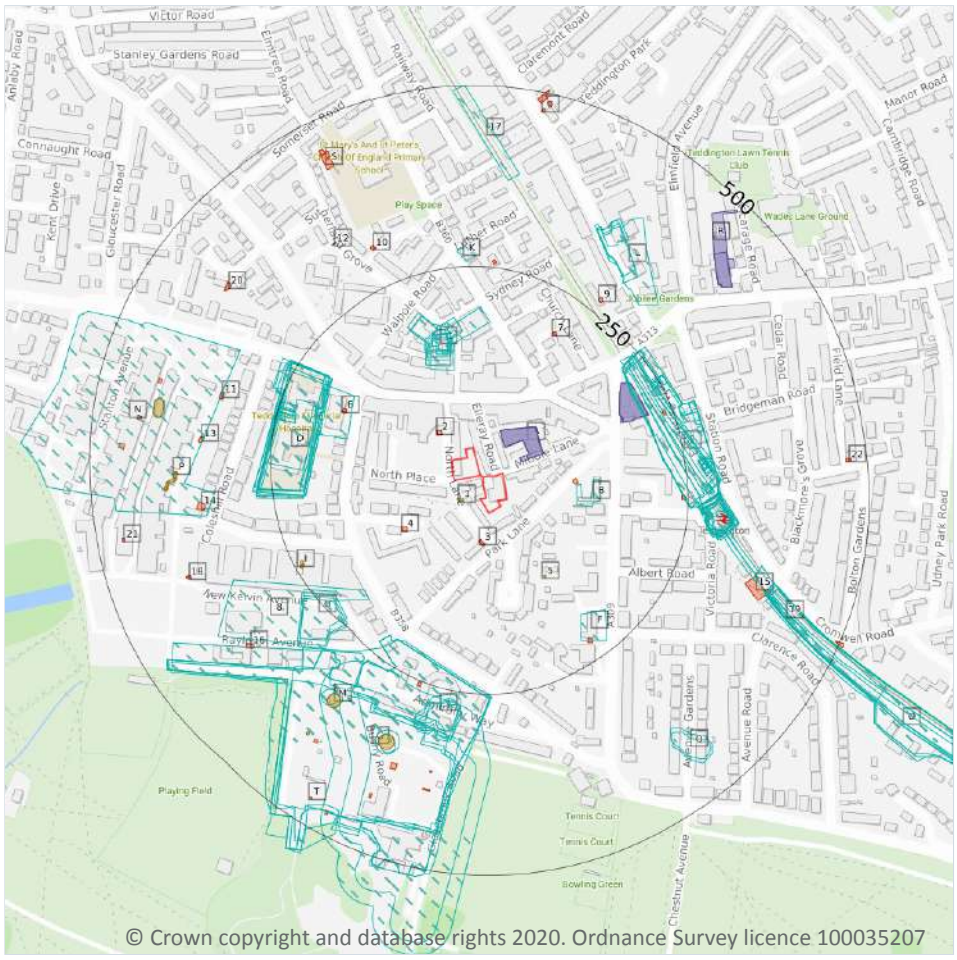
Site Area: 0.24ha

OS MasterMap site plan



Site Area: 0.24ha

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	107

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

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

ID	Location	Land use	Dates present	Group ID
B	96m E	Police Station	1973 - 1991	2191678

ID	Location	Land use	Dates present	Group ID
C	110m N	Hospital	1899	2226554
C	117m N	Hospital	1894	2252156
C	126m N	Hospital	1913	2205209
C	129m N	Hospital	1913	2282490
C	133m N	Hospital	1912	2272000
C	135m N	Hospital	1894 - 1895	2197176
C	137m N	Hospital	1933	2203747
C	138m N	Hospital	1938	2258650
C	139m N	Hospital	1938	2266600
D	147m W	Nursery	1913	2174643
D	186m W	Nursery	1899 - 1912	2249990
D	186m W	Nursery	1894 - 1895	2269333
F	186m SE	Ambulance Station	1991	2158242
D	188m W	Hospital	1934 - 1966	2213514
D	190m W	Nursery	1913	2273175
D	191m W	Nursery	1933	2219738
D	193m W	Hospital	1973 - 1991	2256621
D	194m W	Hospital	1938	2203855
D	194m W	Nursery	1894	2171724
8	196m SW	Nursery	1913	2287634
D	198m W	Hospital	1938	2216587
E	208m NE	Railway Sidings	1913	2264806
E	210m NE	Railway Sidings	1948 - 1973	2224382
E	210m NE	Railway Sidings	1938	2181746
E	210m NE	Railway Sidings	1912	2232563
E	211m NE	Railway Sidings	1913	2186044
E	211m NE	Railway Sidings	1934 - 1938	2283160
G	212m SW	Physical Laboratory	1938	2260227

ID	Location	Land use	Dates present	Group ID
G	215m SW	Unspecified Works	1966	2159555
G	215m SW	Physical Laboratory	1948	2221027
G	215m SW	Physical Laboratory	1973 - 1991	2282478
E	220m NE	Railway Sidings	1933	2284921
E	220m NE	Railway Sidings	1865	2286212
D	223m W	Smithy	1913	2218517
E	224m NE	Railway Sidings	1913	2193451
D	225m W	Smithy	1913	2176364
H	226m SW	Nursery	1933	2289958
D	226m W	Smithy	1933	2266909
D	228m W	Smithy	1912	2251884
E	229m NE	Railway Sidings	1933	2179112
H	231m SW	Nursery	1912 - 1913	2187075
E	235m NE	Railway Building	1913	2201047
H	236m SW	Nursery	1913	2204695
E	238m NE	Railway Building	1912	2176872
E	238m NE	Railway Building	1938	2264940
E	243m NE	Railway Building	1933	2193107
E	244m NE	Railway Building	1913	2148374
E	252m NE	Railway Building	1938	2169690
E	252m NE	Railway Building	1912	2280351
J	256m S	Gravel Pit	1933	2178427
G	256m SW	Physical Laboratory	1913	2184087
K	258m N	Police Station	1966 - 1973	2292540
E	259m E	Railway Building	1912	2185913
E	259m E	Railway Building	1938	2260641
G	261m SW	Physical Laboratory	1934 - 1938	2284672
J	261m S	Gravel Pit	1912 - 1913	2241979

ID	Location	Land use	Dates present	Group ID
E	264m E	Railway Station	1938 - 1991	2216916
J	265m S	Gravel Pit	1913	2181993
E	266m E	Railway Station	1899 - 1913	2267095
E	266m E	Railway Station	1938	2202873
E	268m E	Railway Station	1938	2258344
E	268m E	Railway Station	1913	2246753
J	268m S	Gravel Pit	1913	2195065
E	269m E	Railway Building	1938	2172057
E	269m E	Railway Building	1938 - 1948	2190389
E	269m E	Railway Building	1912	2203191
E	269m E	Railway Building	1938 - 1973	2207960
E	269m E	Railway Station	1894	2220286
E	269m E	Railway Station	1913	2207352
E	269m E	Railway Station	1933	2172088
E	270m E	Railway Station	1934	2172939
E	272m E	Railway Building	1913	2191213
E	272m E	Railway Building	1934 - 1938	2255311
E	272m E	Railway Building	1913	2293148
E	273m E	Railway Building	1934	2268842
E	274m E	Railway Building	1933	2176138
E	274m E	Railway Building	1948	2148377
E	276m E	Railway Building	1913	2148378
E	277m E	Railway Station	1895	2174951
E	283m E	Railway Station	1865	2175867
G	289m SW	Physical Laboratory	1913	2217774
L	299m NE	Wax Candle Factory	1913	2251094
G	299m SW	Unspecified Laboratory	1938	2279772
G	300m SW	Physical Laboratory	1933	2178934

ID	Location	Land use	Dates present	Group ID
G	306m SW	Unspecified Laboratory	1912	2196884
L	307m NE	Candle Factory	1913	2129012
L	312m NE	Wax Candle Factory	1912 - 1913	2246284
M	323m SW	Unspecified Tank	1934	2234256
M	325m SW	Unspecified Tank	1938 - 1948	2181265
N	328m NW	Unspecified Works	1966 - 1991	2204241
G	329m SW	Unspecified Heap	1913	2136234
G	335m SW	Unspecified Tank	1913	2222852
L	335m NE	Wax Candle Factory	1933	2267195
O	358m E	Railway Sidings	1948	2261606
17	372m N	Cuttings	1865	2129535
O	379m E	Railway Sidings	1894 - 1895	2266658
O	380m E	Railway Sidings	1938	2217261
O	380m E	Railway Sidings	1912 - 1913	2268693
O	380m E	Railway Sidings	1894	2181396
O	383m E	Railway Sidings	1933 - 1938	2256409
O	384m E	Railway Sidings	1913	2254994
O	386m E	Railway Sidings	1934	2179474
Q	387m SE	Unspecified Ground Workings	1912 - 1913	2243893
19	387m E	Railway Sidings	1913	2256144
Q	393m SE	Unspecified Ground Workings	1913	2287791
N	402m W	Unspecified Tanks	1973	2143796

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	**17**

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 un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

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

ID	Location	Land use	Dates present	Group ID
1	24m W	Unspecified Tank	1865	362136
5	113m SE	Unspecified Tank	1896	362137
I	237m SW	Tanks	1934	375824
I	237m SW	Unspecified Tank	1963	404292
I	238m SW	Unspecified Tank	1979	385313
M	326m SW	Unspecified Tank	1934	362135
G	335m SW	Unspecified Tank	1915	362134
12	336m NW	Unspecified Tank	1934	362113
P	379m W	Unspecified Tank	1994	362124
P	380m W	Tanks	1990	375822
P	380m W	Unspecified Tank	1994	362125
P	391m W	Unspecified Tank	1994	362127
G	391m SW	Unspecified Tank	1994	362130
P	394m W	Unspecified Tank	1994	362126
N	404m W	Tanks	1979	375815
R	437m NE	Unspecified Tank	1978	362112
T	462m SW	Unspecified Tank	1898	362133

This data is sourced from Ordnance Survey / Groundsure.

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

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

ID	Location	Land use	Dates present	Group ID
2	38m N	Electricity Substation	1983 - 1994	260898
3	38m S	Electricity Substation	1983 - 1994	290369
4	92m SW	Electricity Substation	1987 - 1994	264931
B	93m E	Electricity Substation	1983 - 1994	284077
6	160m NW	Electricity Substation	1987 - 1994	274290
7	191m NE	Electricity Substation	1989 - 1996	260040
F	219m SE	Electricity Substation	1983 - 1994	276810
E	236m E	Electricity Substation	1987 - 1994	261986
E	241m E	Electricity Substation	1983 - 1994	283856
J	251m S	Electricity Substation	1992	243015
K	255m N	Electricity Substation	1996	243001
9	267m NE	Electricity Substation	1979	243000
10	302m NW	Electricity Substation	1979 - 1989	280722
M	319m SW	Electricity Substation	1990 - 1994	267322
11	327m W	Electricity Substation	1990 - 1994	256968
13	344m W	Electricity Substation	1990 - 1994	287052
14	344m W	Electricity Substation	1990 - 1994	259201
15	349m E	Electricity Substation	1971 - 1994	292044
16	357m SW	Electricity Substation	1990 - 1994	266842
G	364m S	Electricity Substation	1996	243013
G	368m S	Electricity Substation	1996	243014
18	387m W	Electricity Substation	1990 - 1994	269664
20	388m NW	Electricity Substation	1973 - 1996	266883
G	390m S	Electricity Substation	1996	243012
G	392m SW	Electricity Substation	1979 - 1994	259538
N	415m W	Electricity Substation	1996	243007
G	420m SW	Electricity Substation	1996	243011
S	431m NW	Electricity Substation	1988	289629

ID	Location	Land use	Dates present	Group ID
N	432m W	Electricity Substation	1990 - 1994	283450
S	451m NW	Electricity Substation	1973 - 1996	266657
N	452m W	Electricity Substation	1979 - 1990	285625
21	461m W	Electricity Substation	1979 - 1994	290570
T	467m SW	Electricity Substation	1991	243010
22	471m E	Electricity Substation	1971 - 1994	277049
U	473m N	Electricity Substation	1996	242956
U	483m N	Electricity Substation	1979	242955
U	484m N	Electricity Substation	1989	242954
O	494m SE	Electricity Substation	1971 - 1994	271460

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 un-grouped 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	9

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 14**

ID	Location	Land use	Dates present	Group ID
A	31m NE	Garage	1992 - 1994	83957

ID	Location	Land use	Dates present	Group ID
A	36m N	Garage	1963 - 1987	85476
A	36m N	Garage	1983 - 1986	83611
E	177m NE	Garage	1960	76193
E	180m NE	Garage	1983	79747
E	180m NE	Garage	1959 - 1986	82429
R	395m NE	Garage	1978	76238
R	396m NE	Garage	1958	76292
R	396m NE	Garage	1959	85308

This data is sourced from Ordnance Survey / Groundsure.

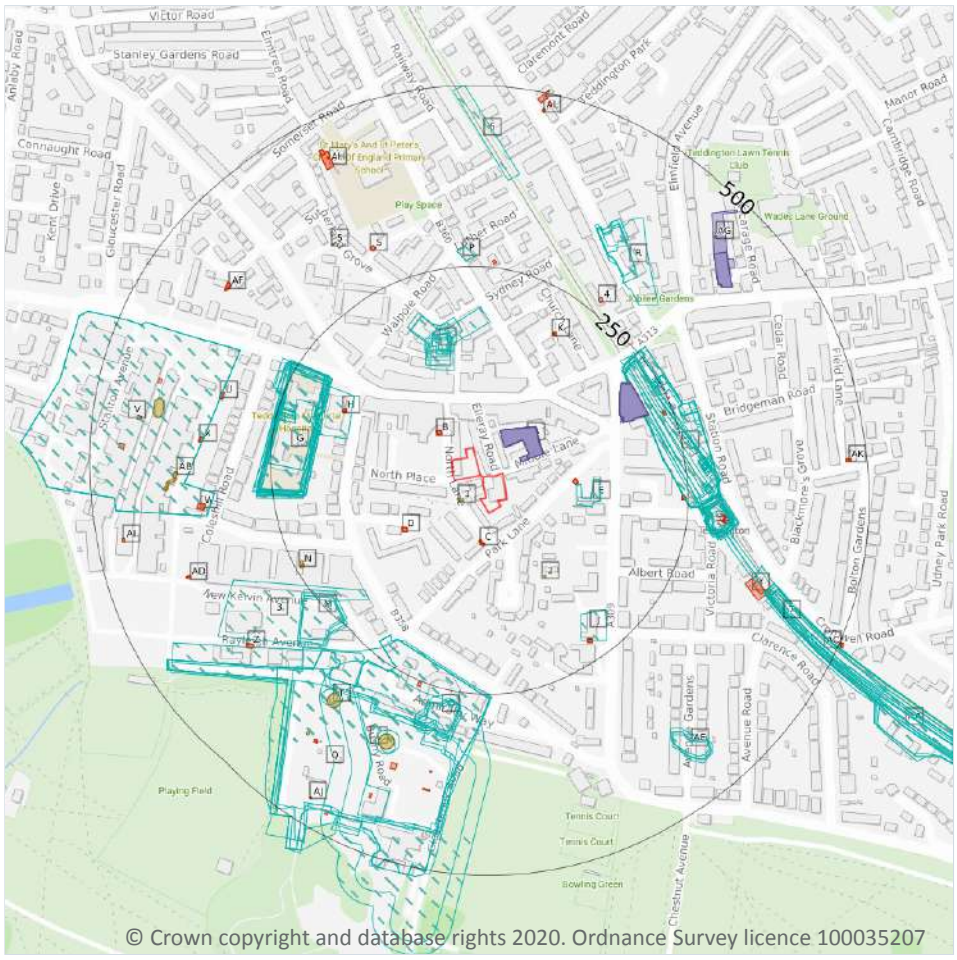
1.6 Historical military land

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	152

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
E	96m E	Police Station	1991	2191678
E	96m E	Police Station	1973	2191678
F	110m N	Hospital	1899	2226554

ID	Location	Land Use	Date	Group ID
F	117m N	Hospital	1894	2252156
F	126m N	Hospital	1913	2205209
F	129m N	Hospital	1913	2282490
F	133m N	Hospital	1912	2272000
F	135m N	Hospital	1895	2197176
F	137m N	Hospital	1933	2203747
F	138m N	Hospital	1938	2258650
F	139m N	Hospital	1938	2266600
F	139m N	Hospital	1894	2197176
G	147m W	Nursery	1913	2174643
G	186m W	Nursery	1912	2249990
G	186m W	Nursery	1895	2269333
J	186m SE	Ambulance Station	1991	2158242
G	187m W	Nursery	1899	2249990
G	188m W	Hospital	1934	2213514
G	190m W	Nursery	1913	2273175
G	190m W	Hospital	1938	2213514
G	190m W	Nursery	1913	2273175
G	191m W	Nursery	1933	2219738
G	191m W	Hospital	1966	2213514
G	193m W	Nursery	1894	2269333
G	193m W	Hospital	1991	2256621
G	193m W	Hospital	1973	2256621
G	194m W	Hospital	1938	2203855
G	194m W	Nursery	1894	2171724
G	196m W	Hospital	1948	2213514
3	196m SW	Nursery	1913	2287634
G	198m W	Hospital	1938	2216587

ID	Location	Land Use	Date	Group ID
I	208m NE	Railway Sidings	1913	2264806
I	210m NE	Railway Sidings	1973	2224382
I	210m NE	Railway Sidings	1966	2224382
I	210m NE	Railway Sidings	1948	2224382
I	210m NE	Railway Sidings	1938	2181746
I	210m NE	Railway Sidings	1912	2232563
I	211m NE	Railway Sidings	1938	2283160
I	211m NE	Railway Sidings	1913	2186044
L	212m SW	Physical Laboratory	1938	2260227
I	213m NE	Railway Sidings	1934	2283160
L	215m SW	Physical Laboratory	1991	2282478
L	215m SW	Physical Laboratory	1973	2282478
L	215m SW	Unspecified Works	1966	2159555
L	215m SW	Physical Laboratory	1948	2221027
I	215m NE	Railway Sidings	1938	2283160
I	220m NE	Railway Sidings	1933	2284921
I	220m NE	Railway Sidings	1865	2286212
G	223m W	Smithy	1913	2218517
I	224m NE	Railway Sidings	1913	2193451
G	225m W	Smithy	1913	2176364
G	225m W	Smithy	1913	2176364
M	226m SW	Nursery	1933	2289958
G	226m W	Smithy	1933	2266909
G	228m W	Smithy	1912	2251884
I	229m NE	Railway Sidings	1933	2179112
M	231m SW	Nursery	1912	2187075
M	232m SW	Nursery	1913	2187075
I	235m NE	Railway Building	1913	2201047

ID	Location	Land Use	Date	Group ID
M	236m SW	Nursery	1913	2204695
I	238m NE	Railway Building	1938	2264940
I	238m NE	Railway Building	1912	2176872
I	241m NE	Railway Building	1938	2264940
I	243m NE	Railway Building	1933	2193107
I	244m NE	Railway Building	1913	2148374
I	252m NE	Railway Building	1938	2169690
I	252m NE	Railway Building	1912	2280351
O	256m S	Gravel Pit	1933	2178427
L	256m SW	Physical Laboratory	1913	2184087
P	258m N	Police Station	1973	2292540
P	258m N	Police Station	1966	2292540
I	259m E	Railway Building	1938	2260641
I	259m E	Railway Building	1912	2185913
Q	261m SW	Physical Laboratory	1934	2284672
O	261m S	Gravel Pit	1912	2241979
I	264m E	Railway Station	1991	2216916
I	264m E	Railway Station	1973	2216916
I	264m E	Railway Station	1966	2216916
I	264m E	Railway Station	1948	2216916
O	264m S	Gravel Pit	1913	2241979
O	265m S	Gravel Pit	1913	2181993
I	266m E	Railway Station	1938	2216916
I	266m E	Railway Station	1912	2267095
I	266m E	Railway Station	1938	2202873
I	268m E	Railway Station	1938	2258344
I	268m E	Railway Station	1913	2246753
O	268m S	Gravel Pit	1913	2195065

ID	Location	Land Use	Date	Group ID
I	269m E	Railway Building	1938	2207960
I	269m E	Railway Building	1912	2203191
I	269m E	Railway Station	1894	2220286
I	269m E	Railway Building	1948	2190389
I	269m E	Railway Building	1938	2172057
I	269m E	Railway Station	1913	2207352
I	269m E	Railway Station	1933	2172088
I	269m E	Railway Station	1913	2267095
I	270m E	Railway Building	1973	2207960
I	270m E	Railway Building	1966	2207960
I	270m E	Railway Building	1948	2207960
I	270m E	Railway Station	1934	2172939
I	270m E	Railway Station	1894	2220286
I	272m E	Railway Building	1913	2191213
I	272m E	Railway Building	1938	2255311
I	272m E	Railway Building	1913	2293148
I	272m E	Railway Building	1913	2293148
I	272m E	Railway Building	1938	2190389
I	273m E	Railway Building	1934	2268842
I	274m E	Railway Building	1933	2176138
I	274m E	Railway Building	1948	2148377
I	274m E	Railway Building	1934	2255311
I	276m E	Railway Building	1913	2148378
I	277m E	Railway Station	1899	2267095
I	277m E	Railway Station	1895	2174951
I	283m E	Railway Station	1865	2175867
L	289m SW	Physical Laboratory	1913	2217774
R	299m NE	Wax Candle Factory	1913	2251094

ID	Location	Land Use	Date	Group ID
L	299m SW	Unspecified Laboratory	1938	2279772
L	300m SW	Physical Laboratory	1933	2178934
L	304m SW	Physical Laboratory	1938	2284672
L	306m SW	Unspecified Laboratory	1912	2196884
R	307m NE	Candle Factory	1913	2129012
R	312m NE	Wax Candle Factory	1912	2246284
T	323m SW	Unspecified Tank	1934	2234256
T	325m SW	Unspecified Tank	1948	2181265
T	325m SW	Unspecified Tank	1938	2181265
R	327m NE	Wax Candle Factory	1913	2246284
V	328m NW	Unspecified Works	1991	2204241
V	328m NW	Unspecified Works	1973	2204241
V	328m NW	Unspecified Works	1966	2204241
L	329m SW	Unspecified Heap	1913	2136234
L	335m SW	Unspecified Tank	1913	2222852
R	335m NE	Wax Candle Factory	1933	2267195
L	339m SW	Unspecified Tank	1913	2222852
AA	358m E	Railway Sidings	1948	2261606
6	372m N	Cuttings	1865	2129535
AA	379m E	Railway Sidings	1894	2266658
AA	380m E	Railway Sidings	1938	2217261
AA	380m E	Railway Sidings	1912	2268693
AC	380m E	Railway Sidings	1894	2181396
AA	383m E	Railway Sidings	1938	2256409
AA	384m E	Railway Sidings	1913	2254994
AA	384m E	Railway Sidings	1913	2268693
AA	386m E	Railway Sidings	1934	2179474
AE	387m SE	Unspecified Ground Workings	1912	2243893

ID	Location	Land Use	Date	Group ID
AA	387m E	Railway Sidings	1938	2256409
7	387m E	Railway Sidings	1913	2256144
AA	387m E	Railway Sidings	1895	2266658
AE	391m SE	Unspecified Ground Workings	1913	2243893
AE	393m SE	Unspecified Ground Workings	1913	2287791
AE	394m SE	Unspecified Ground Workings	1913	2287791
V	402m W	Unspecified Tanks	1973	2143796
AA	458m SE	Railway Sidings	1913	2254994
AA	460m SE	Railway Sidings	1933	2256409

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	**17**

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
1	24m W	Unspecified Tank	1865	362136
2	113m SE	Unspecified Tank	1896	362137
N	237m SW	Tanks	1934	375824
N	237m SW	Unspecified Tank	1963	404292
N	238m SW	Unspecified Tank	1979	385313
T	326m SW	Unspecified Tank	1934	362135
L	335m SW	Unspecified Tank	1915	362134
5	336m NW	Unspecified Tank	1934	362113
AB	379m W	Unspecified Tank	1994	362124
AB	380m W	Tanks	1990	375822
AB	380m W	Unspecified Tank	1994	362125

ID	Location	Land Use	Date	Group ID
AB	391m W	Unspecified Tank	1994	362127
Q	391m SW	Unspecified Tank	1994	362130
AB	394m W	Unspecified Tank	1994	362126
V	404m W	Tanks	1979	375815
AG	437m NE	Unspecified Tank	1978	362112
AJ	462m SW	Unspecified Tank	1898	362133

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	**90**

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	38m N	Electricity Substation	1987	260898
B	38m N	Electricity Substation	1994	260898
B	38m N	Electricity Substation	1992	260898
B	38m N	Electricity Substation	1983	260898
B	38m N	Electricity Substation	1983	260898
B	38m N	Electricity Substation	1986	260898
C	38m S	Electricity Substation	1987	290369
C	39m S	Electricity Substation	1983	290369
C	39m S	Electricity Substation	1983	290369
C	39m S	Electricity Substation	1986	290369
C	40m S	Electricity Substation	1994	290369
C	40m S	Electricity Substation	1992	290369
D	92m SW	Electricity Substation	1987	264931
D	93m SW	Electricity Substation	1994	264931

ID	Location	Land Use	Date	Group ID
D	93m SW	Electricity Substation	1992	264931
E	93m E	Electricity Substation	1987	284077
E	93m E	Electricity Substation	1983	284077
E	93m E	Electricity Substation	1983	284077
E	93m E	Electricity Substation	1986	284077
E	94m E	Electricity Substation	1994	284077
E	94m E	Electricity Substation	1992	284077
H	160m NW	Electricity Substation	1994	274290
H	160m NW	Electricity Substation	1992	274290
H	161m NW	Electricity Substation	1987	274290
K	191m NE	Electricity Substation	1989	260040
K	191m NE	Electricity Substation	1996	260040
J	219m SE	Electricity Substation	1987	276810
J	219m SE	Electricity Substation	1983	276810
J	219m SE	Electricity Substation	1983	276810
J	219m SE	Electricity Substation	1986	276810
J	219m SE	Electricity Substation	1994	276810
J	219m SE	Electricity Substation	1992	276810
I	236m E	Electricity Substation	1994	261986
I	236m E	Electricity Substation	1992	261986
I	236m E	Electricity Substation	1987	261986
I	241m E	Electricity Substation	1983	283856
I	241m E	Electricity Substation	1983	283856
I	241m E	Electricity Substation	1986	283856
I	242m E	Electricity Substation	1994	283856
I	242m E	Electricity Substation	1992	283856
I	242m E	Electricity Substation	1987	283856
O	251m S	Electricity Substation	1992	243015

ID	Location	Land Use	Date	Group ID
P	255m N	Electricity Substation	1996	243001
4	267m NE	Electricity Substation	1979	243000
S	302m NW	Electricity Substation	1989	280722
S	302m NW	Electricity Substation	1979	280722
T	319m SW	Electricity Substation	1990	267322
T	319m SW	Electricity Substation	1994	267322
U	327m W	Electricity Substation	1994	256968
U	328m W	Electricity Substation	1990	256968
W	344m W	Electricity Substation	1994	259201
X	344m W	Electricity Substation	1994	287052
W	345m W	Electricity Substation	1990	259201
X	345m W	Electricity Substation	1990	287052
Y	349m E	Electricity Substation	1971	292044
Z	357m SW	Electricity Substation	1994	266842
Z	358m SW	Electricity Substation	1990	266842
Y	359m E	Electricity Substation	1994	292044
L	364m S	Electricity Substation	1996	243013
L	368m S	Electricity Substation	1996	243014
AD	387m W	Electricity Substation	1994	269664
AD	388m W	Electricity Substation	1990	269664
AF	388m NW	Electricity Substation	1973	266883
AF	390m NW	Electricity Substation	1996	266883
AF	390m NW	Electricity Substation	1988	266883
L	390m S	Electricity Substation	1996	243012
Q	392m SW	Electricity Substation	1979	259538
Q	392m SW	Electricity Substation	1990	259538
Q	393m SW	Electricity Substation	1994	259538
V	415m W	Electricity Substation	1996	243007

ID	Location	Land Use	Date	Group ID
L	420m SW	Electricity Substation	1996	243011
AH	431m NW	Electricity Substation	1988	289629
AH	431m NW	Electricity Substation	1988	289629
V	432m W	Electricity Substation	1994	283450
V	433m W	Electricity Substation	1990	283450
AH	451m NW	Electricity Substation	1973	266657
AH	451m NW	Electricity Substation	1996	266657
V	452m W	Electricity Substation	1979	285625
V	452m W	Electricity Substation	1990	285625
AI	461m W	Electricity Substation	1994	290570
AI	462m W	Electricity Substation	1979	290570
AI	462m W	Electricity Substation	1990	290570
AJ	467m SW	Electricity Substation	1991	243010
AK	471m E	Electricity Substation	1994	277049
AK	471m E	Electricity Substation	1971	277049
AL	473m N	Electricity Substation	1996	242956
AL	483m N	Electricity Substation	1979	242955
AL	484m N	Electricity Substation	1989	242954
AC	494m SE	Electricity Substation	1971	271460
AC	496m SE	Electricity Substation	1994	271460

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	**17**

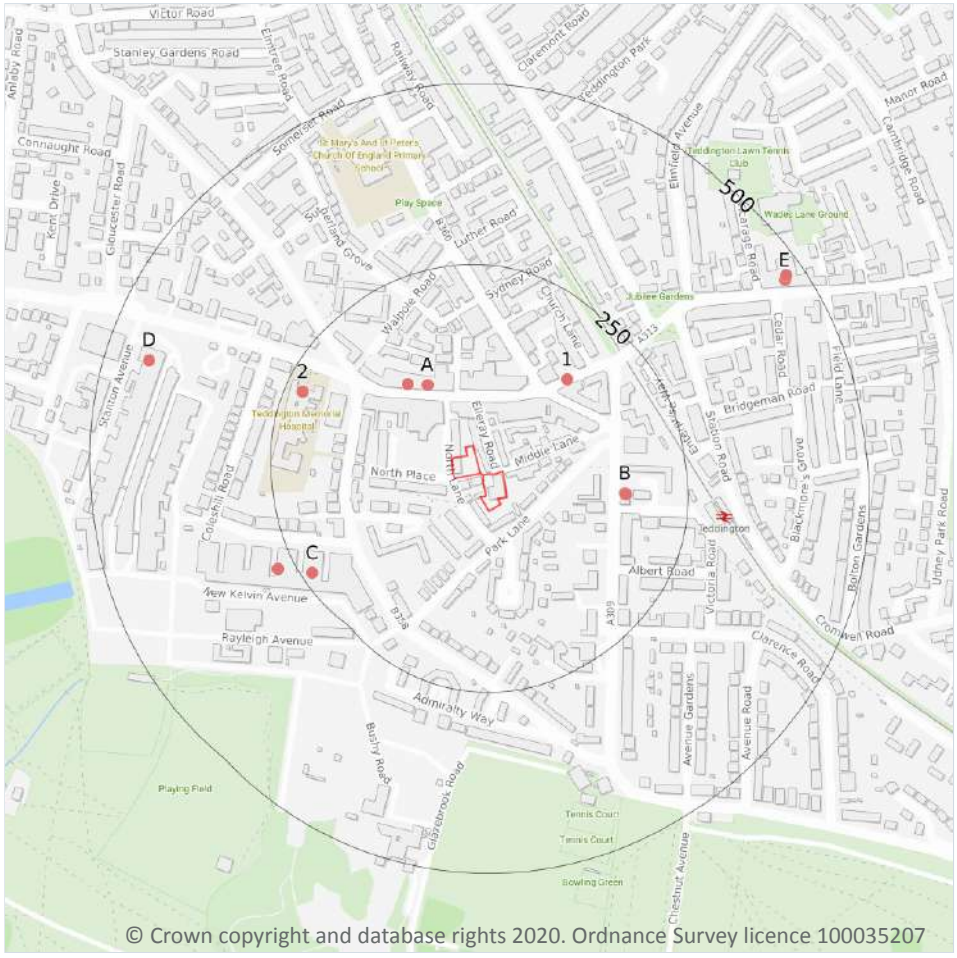
Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

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

ID	Location	Land Use	Date	Group ID
A	31m NE	Garage	1994	83957
A	31m NE	Garage	1992	83957
A	36m N	Garage	1963	85476
A	36m N	Garage	1987	85476
A	36m N	Garage	1983	83611
A	36m N	Garage	1983	83611
A	36m N	Garage	1986	83611
I	177m NE	Garage	1960	76193
I	180m NE	Garage	1983	79747
I	180m NE	Garage	1983	82429
I	180m NE	Garage	1986	82429
I	181m NE	Garage	1963	82429
I	181m NE	Garage	1959	82429
AG	395m NE	Garage	1978	76238
AG	396m NE	Garage	1958	76292
AG	396m NE	Garage	1959	85308
AG	396m NE	Garage	1959	85308

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



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Site Outline

Search buffers in metres (m)

Waste exemptions

3.1 Active or recent landfill

Records within 500m	0

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

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

3.2 Historical landfill (BGS records)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m	0

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

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

3.5 Historical waste sites

Records within 500m	0

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

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

3.6 Licensed waste sites

Records within 500m	0

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

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

3.7 Waste exemptions

Records within 500m	20

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

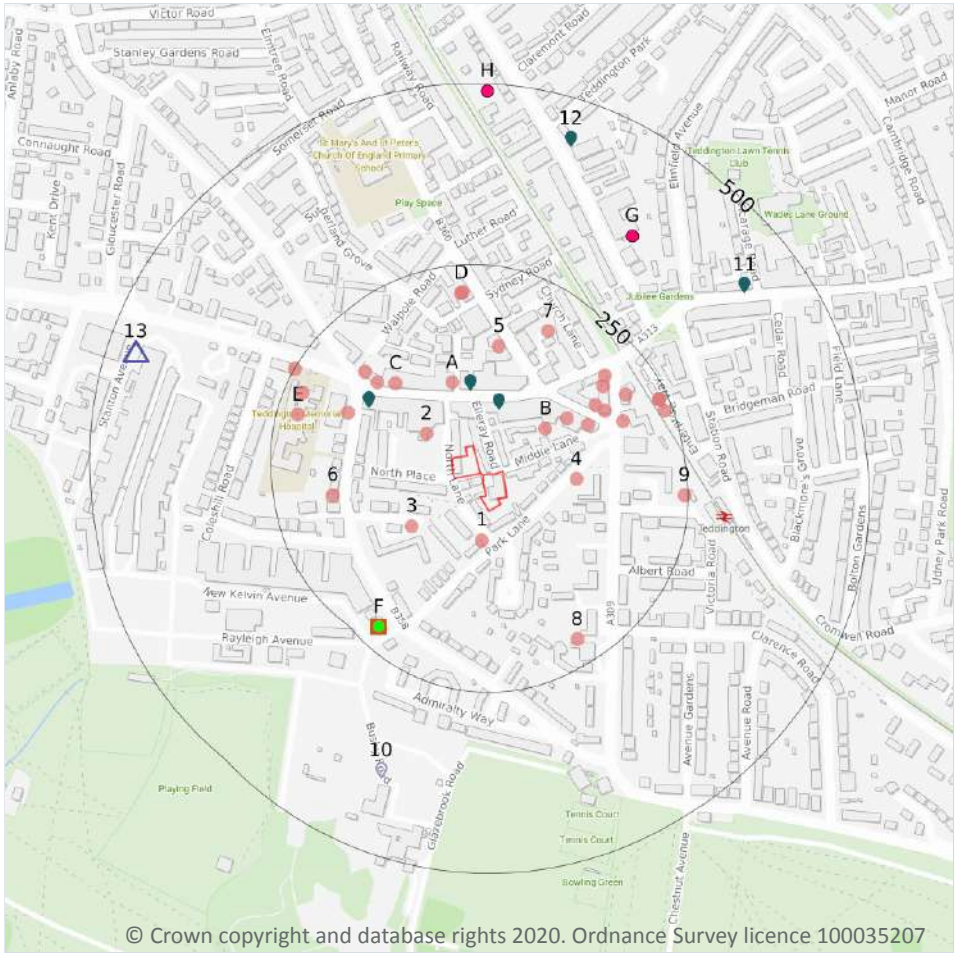
Features are displayed on the Waste and landfill map on **page 35**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	101m NW	23 Broad Street TEDDINGTON Middlesex TW11 8QZ	EPR/SF0108WV/A001	Treating waste exemption	Non-Agricultural Waste Only	Sorting and de-naturing of controlled drugs for disposal
A	118m NW	23, BROAD STREET, TEDDINGTON, TW11 8QZ	WEX158250	Storing waste exemption	Not on a Farm	Storage of waste in secure containers
A	118m NW	23, BROAD STREET, TEDDINGTON, TW11 8QZ	WEX158250	Storing waste exemption	Not on a Farm	Storage of waste in a secure place
A	118m NW	23, BROAD STREET, TEDDINGTON, TW11 8QZ	WEX158250	Treating waste exemption	Not on a Farm	Sorting and de-naturing of controlled drugs for disposal
A	118m NW	23, BROAD STREET, TEDDINGTON, TW11 8QZ	WEX238242	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
1	154m NE	23 Broad Street TEDDINGTON Middlesex TW11 8QZ	EPR/VH0215DB/A001	Treating waste exemption	Non-Agricultural Waste Only	Sorting and de-naturing of controlled drugs for disposal
B	163m E	Medco Pharmacy 31-33 Park Rd Teddington TW11 0AB	EPR/LF0001MG/A001	Treating waste exemption	Non-Agricultural Waste Only	Sorting and de-naturing of controlled drugs for disposal
B	164m E	Medco Pharmacy, 31-33 Park Road, Teddington, TW11 0AB	WEX120916	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
2	226m NW	Cedars at Grace Anderson Unit, Teddington Memorial Hospital, Hampton Road, Teddington, TW11 0JL	WEX130446	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
C	236m SW	HAMPTON ROAD, TEDDINGTON, TW11 0LW	WEX225393	Disposing of waste exemption	Not on a farm	Depositing samples of waste for the purposes of testing or analysing them
C	274m SW	QUEENS ROAD, TEDDINGTON, TW11 0LY	WEX155985	Treating waste exemption	Not on a Farm	Aerobic composting and associated prior treatment
C	274m SW	QUEENS ROAD, TEDDINGTON, TW11 0LY	WEX155985	Using waste exemption	Not on a Farm	Use of mulch
C	274m SW	QUEENS ROAD, TEDDINGTON, TW11 0LY	WEX155985	Storing waste exemption	Not on a Farm	Storage of waste in a secure place
C	274m SW	QUEENS ROAD, TEDDINGTON, TW11 0LY	WEX155985	Using waste exemption	Not on a Farm	Spreading waste on non-agricultural land to confer benefit

ID	Location	Site	Reference	Category	Sub-Category	Description
C	274m SW	QUEENS ROAD, TEDDINGTON, TW11 0LY	WEX075217	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
C	274m SW	QUEENS ROAD, TEDDINGTON, TW11 0LY	WEX075217	Using waste exemption	Not on a farm	Use of mulch
D	440m W	National Physical Laboratory Hampton Road Teddington Middlesex TW11 0LW	EPR/SF0632FP/A001	Disposing of waste exemption	Non-Agricultural Waste Only	Burning waste in the open
D	440m W	National Physical Laboratory Hampton Road Teddington Middlesex TW11 0LW	EPR/PF0933EM/A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste for a specified purpose
E	469m NE	53, HIGH STREET, TEDDINGTON, TW11 8HA	WEX124684	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
E	475m NE	53 High Street TEDDINGTON Middlesex TW11 8HD	EPR/ZE5186DF/A001	Treating waste exemption	Non-Agricultural Waste Only	Sorting and de-naturing of controlled drugs for disposal

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

4 Current industrial land use



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Site Outline

Search buffers in metres (m)

- Recent industrial land uses
- Current or recent petrol stations
- Part A(1) industrial activities
- Licensed pollutant release (Part A(2)/B)
- Radioactive Substance Authorisations
- Pollutant release to public sewer
- Pollution inventory radioactive waste

4.1 Recent industrial land uses

Records within 250m	31

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 39**

ID	Location	Company	Address	Activity	Category
1	41m S	Electricity Sub Station	Greater London, TW11	Electrical Features	Infrastructure and Facilities
2	49m NW	Electricity Sub Station	Greater London, TW11	Electrical Features	Infrastructure and Facilities
B	83m NE	Rims Engineering	Rear of 8, The Causeway, Teddington, Greater London, TW11 0HE	Vehicle Components	Industrial Products

ID	Location	Company	Address	Activity	Category
3	88m SW	Electricity Sub Station	Greater London, TW11	Electrical Features	Infrastructure and Facilities
A	91m N	Brammer Plc	43-45, Broad Street, Teddington, Greater London, TW11 8QZ	Distribution and Haulage	Transport, Storage and Delivery
4	98m E	Electricity Sub Station	Greater London, TW11	Electrical Features	Infrastructure and Facilities
B	115m NE	The Fun Factory	14, The Causeway, Teddington, Greater London, TW11 0HE	Giftware	Consumer Products
C	130m NW	Teddington Photographic	17, Broad Street, Teddington, Greater London, TW11 8QZ	Photographic and Optical Equipment	Household, Office, Leisure and Garden
B	134m NE	Action Graphics	24, The Causeway, Teddington, Greater London, TW11 0HE	Published Goods	Industrial Products
5	142m N	Fusion Fireplaces	9, Church Road, Teddington, Greater London, TW11 8PF	Fireplaces and Mantelpieces	Consumer Products
C	147m NW	Lifetime	9, Broad Street, Teddington, Greater London, TW11 8QZ	Curtains and Blinds	Consumer Products
C	156m NW	Electricity Sub Station	Greater London, TW11	Electrical Features	Infrastructure and Facilities
B	156m NE	Opt4mobility Ltd	9-11, The Causeway, Teddington, Greater London, TW11 0HA	Disability and Mobility Equipment	Consumer Products
B	164m NE	S F L Mobile Road Ltd	Causeway House, 13 The Causeway, Teddington, Greater London, TW11 0JR	Radar and Telecommunications Equipment	Industrial Products
6	169m W	Fillingham Associates	32, Queens Road, Teddington, Greater London, TW11 0LR	Office and Shop Equipment	Industrial Products
C	169m NW	Neatsmith	3, Broad Street, Teddington, Greater London, TW11 8QZ	Furniture	Consumer Products
B	179m NE	Electricity Sub Station	Greater London, TW11	Electrical Features	Infrastructure and Facilities
B	182m NE	Communicate Mobile Ltd	6, Park Road, Teddington, Greater London, TW11 0AA	Radar and Telecommunications Equipment	Industrial Products
7	189m NE	Electricity Sub Station	Greater London, TW11	Electrical Features	Infrastructure and Facilities
B	193m NE	The Repair Station	86, Broad Street, Teddington, Greater London, TW11 8QT	Electrical Equipment Repair and Servicing	Repair and Servicing

ID	Location	Company	Address	Activity	Category
B	201m NE	B M T Group Ltd	1, Park Road, Teddington, Greater London, TW11 0AP	Civil Engineers	Engineering Services
D	211m N	Bright Q A Systems Ltd	Water Solutions Centre, 25 Church Road, Teddington, Greater London, TW11 8PF	Bathroom Fixtures, Fittings and Sanitary Equipment	Consumer Products
D	212m N	Stevens Tyres	25, Church Road, Teddington, Greater London, TW11 8PF	Vehicle Parts and Accessories	Motoring
8	214m SE	Electricity Sub Station	Greater London, TW11	Electrical Features	Infrastructure and Facilities
E	221m W	Hounslow & Richmond Community Healthcare	Hampton Road, Teddington, Greater London, TW11 0JL	Medical Equipment, Supplies and Pharmaceuticals	Industrial Products
E	225m NW	Teddington Memorial Hospital	Hampton Road, Teddington, Greater London, TW11 0JL	Hospitals	Health Practitioners and Establishments
B	238m NE	Alfresco Floors	Unit 6 Teddington Business Park, Station Road, Teddington, Greater London, TW11 9BQ	Construction Completion Services	Construction Services
B	238m NE	The Outdoor Deck Co	Unit 6 Teddington Business Park, Station Road, Teddington, Greater London, TW11 9BQ	Garden Goods	Consumer Products
B	239m E	Electricity Sub Station	Greater London, TW11	Electrical Features	Infrastructure and Facilities
9	245m E	Electricity Sub Station	Greater London, TW11	Electrical Features	Infrastructure and Facilities
E	249m NW	Electricity Sub Station	Greater London, TW11	Electrical Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m **1**

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on **page 39**

ID	Location	Company	Address	LPG	Status
13	461m W	UNBRANDED	Hampton Road, Teddington, Outer London, TW11 0LW	No	Non-Retail

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	1

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

Features are displayed on the Current industrial land use map on **page 39**

ID	Location	Details	
10	387m SW	Operator: ITM POWER (TRADING) LIMITED Installation Name: HYDROGEN REFUELLING STATION, TEDDINGTON SR2009 NO2 EPR/XP3936DV Process: INORGANIC CHEMICALS; GASES EG AMMONIA Permit Number: XP3936DV Original Permit Number: XP3936DV	EPR Reference: - Issue Date: 12/12/2016 Effective Date: 12/12/2016 Last date noted as effective: 28/09/2020 Status: EFFECTIVE

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

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

Records within 500m	5

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 39**

ID	Location	Address	Details	
A	69m NE	Silks Dry Cleaners, 54 Broad Street, Teddington, TW11 8QY	Process: Dry Cleaning Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
A	86m N	Johnson Cleaners UK Ltd, 51 Broad Street, Teddington, TW11 8QZ	Process: Dry Cleaning Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
C	140m NW	Mr Dryclean, 2 Broad Street, Teddington, TW11 8RF	Process: Dry Cleaning Status: Revoked Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
11	421m NE	Pristine Laundries, 37 High Street, Teddington, TW11 8ET	Process: Dry Cleaning Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
12	444m N	Jacksons Ford, 50 Waldegrave Road, Teddington, TW11 8NY	Process: Waste Oil Burner 0.4 MW Status: Historical 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 **19**

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

Features are displayed on the Current industrial land use map on **page 39**

ID	Location	Address	Details	
F	220m SW	National Physical Laboratory, Hampton Road, Teddington, TW11 0LW	Operator: NPL Management Limited Type: Keeping And Use Of Radioactive Materials (was Rsa60 Section 1). Permission number: BV0732 Date of approval: 16/10/2003	Effective from: - Last date of update: 01/01/2020 Status: Replaced
F	220m SW	National Physical Laboratory, Hampton Road, Teddington, TW11 0LW	Operator: NPL Management Limited Type: - Permission number: WB3098DL Date of approval: -	Effective from: 20/01/2016 Last date of update: 01/01/2020 Status: Issued

ID	Location	Address	Details	
F	220m SW	National Physical Laboratory, Hampton Road, Teddington, TW11 0LW	Operator: NPL Management Limited Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: BZ6350 Date of approval: 16/01/2007	Effective from: - Last date of update: 01/01/2020 Status: Replaced
F	220m SW	Queens Road, Teddington, TW11 0LY	Operator: LGC Limited Type: - Permission number: SB3991DL Date of approval: -	Effective from: - Last date of update: 01/01/2020 Status: Surrendered
F	220m SW	Queens Road, Teddington, TW11 0LY	Operator: LGC Limited Type: Keeping And Use Of Radioactive Materials (was Rsa60 Section 1). Permission number: BG6839 Date of approval: 12/02/2001	Effective from: - Last date of update: 01/01/2020 Status: Replaced
F	220m SW	Queens Road, Teddington, TW11 0LY	Operator: LGC Limited Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: BZ9880 Date of approval: 05/01/2006	Effective from: - Last date of update: 01/01/2020 Status: Replaced
F	220m SW	Lgc (holdings) Ltd, Queens Road, Teddington, Middlesex, TW11 0LY	Operator: Lgc (holdings) Ltd Type: Keeping And Use Of Radioactive Materials (was Rsa60 Section 1). Permission number: AG7385 Date of approval: 10/03/1992	Effective from: 10/03/1992 Last date of update: 06/01/2005 Status: Superseded By Variation
F	220m SW	Lgc Ltd, Queens Road, Teddington, Middlesex, TW11 0LY	Operator: Lgc Ltd Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: AG7377 Date of approval: 12/02/2001	Effective from: 31/03/2001 Last date of update: 01/01/2015 Status: Superseded By Variation
F	220m SW	Lgc Ltd, Queens Road, Teddington, Middlesex, TW11 0LY	Operator: Lgc Ltd Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: AG7377 Date of approval: 01/12/2003	Effective from: 01/01/2004 Last date of update: 01/01/2015 Status: Superseded By Variation
F	220m SW	National Physical Laboratory, National Physical Laboratory, Teddington, Middlesex, TW11 0LW	Operator: National Physical Laboratory Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: AF6766 Date of approval: 10/02/1993	Effective from: 09/03/1993 Last date of update: 01/01/2015 Status: Revoked/cancelled
F	220m SW	National Physical Laboratory, National Physical Laboratory, Teddington, Middlesex, TW11 0LW	Operator: National Physical Laboratory Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: AR9575 Date of approval: 01/12/2003	Effective from: 01/01/2004 Last date of update: 01/01/2015 Status: Superseded By Variation

ID	Location	Address	Details	
F	220m SW	Npl Management Ltd, National Physical Laboratory, Teddington, Middlesex, TW11 0LW	Operator: Npl Management Ltd Type: Keeping And Use Of Radioactive Materials (was Rsa60 Section 1). Permission number: AR9958 Date of approval: 25/07/2002	Effective from: 25/07/2002 Last date of update: 01/01/2015 Status: Superseded By Variation
F	220m SW	National Physical Laboratory, National Physical Laboratory, Teddington, Middlesex, TW11 0LW	Operator: National Physical Laboratory Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: AR9575 Date of approval: 19/08/1995	Effective from: 13/09/1995 Last date of update: 01/01/2015 Status: Superseded By Variation
F	220m SW	National Physical Laboratory, National Physical Laboratory, Teddington, Middlesex, TW11 0LW	Operator: National Physical Laboratory Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: AR9575 Date of approval: 26/07/2002	Effective from: 26/08/2002 Last date of update: 01/01/2015 Status: Superseded By Variation
G	363m NE	Paint Research Association, 8 Waldegrave Road, Teddington, Middlesex, TW11 8LD	Operator: Paint Research Association Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: AD2344 Date of approval: 31/03/1991	Effective from: 31/03/1991 Last date of update: 01/01/2015 Status: Revoked/cancelled
G	363m NE	Paint Research Association, 8 Waldegrave Road, Teddington, Middlesex, TW11 8LD	Operator: Paint Research Association Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: AY2257 Date of approval: 03/06/1997	Effective from: 17/06/1997 Last date of update: 01/01/2015 Status: Superseded By Variation
G	363m NE	Paint Research Association, 8 Waldegrave Road, Teddington, Middlesex, TW11 8LD	Operator: Paint Research Association Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: AY2257 Date of approval: 05/12/1997	Effective from: 09/12/1997 Last date of update: 01/01/2015 Status: Revoked/cancelled
H	489m N	Laboratory Impex Systems Ltd, 111-113 Waldegrave Road, Teddington, Middlesex, TW11 8LL	Operator: Laboratory Impex Systems Ltd Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: AC4180 Date of approval: 31/03/1991	Effective from: 31/03/1991 Last date of update: 01/01/2015 Status: Revoked/cancelled
H	489m N	Hybaid Ltd, 111-113 Waldegrave Road, Teddington, Middlesex, TW11 8LL	Operator: Hybaid Ltd Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: AY7500 Date of approval: 28/07/1997	Effective from: 01/08/1997 Last date of update: 01/01/2015 Status: Revoked/cancelled

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

4.13 Licensed Discharges to controlled waters

Records within 500m	0

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

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m	0

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

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

4.15 Pollutant release to public sewer

Records within 500m	1

Discharges of Special Category Effluents to the public sewer.

Features are displayed on the Current industrial land use map on **page 39**

ID	Location	Address	Details	
F	220m SW	LGC LTD, QUEENS ROAD, QUEENS ROAD, TEDDINGTON, MIDDLESEX, TW11 0LY	Permission reference: BB6980 Local Authority: LONDON BOROUGH OF RICHMOND UPON THAMES First received date: 01/06/2001	Last received date: 01/01/2018 Status: RECEIVED

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

4.16 List 1 Dangerous Substances

Records within 500m	0

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

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

4.17 List 2 Dangerous Substances

Records within 500m	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	0

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

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

4.19 Pollution inventory substances

Records within 500m	0

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

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

4.20 Pollution inventory waste transfers

Records within 500m	0

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

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

4.21 Pollution inventory radioactive waste

Records within 500m	1

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.

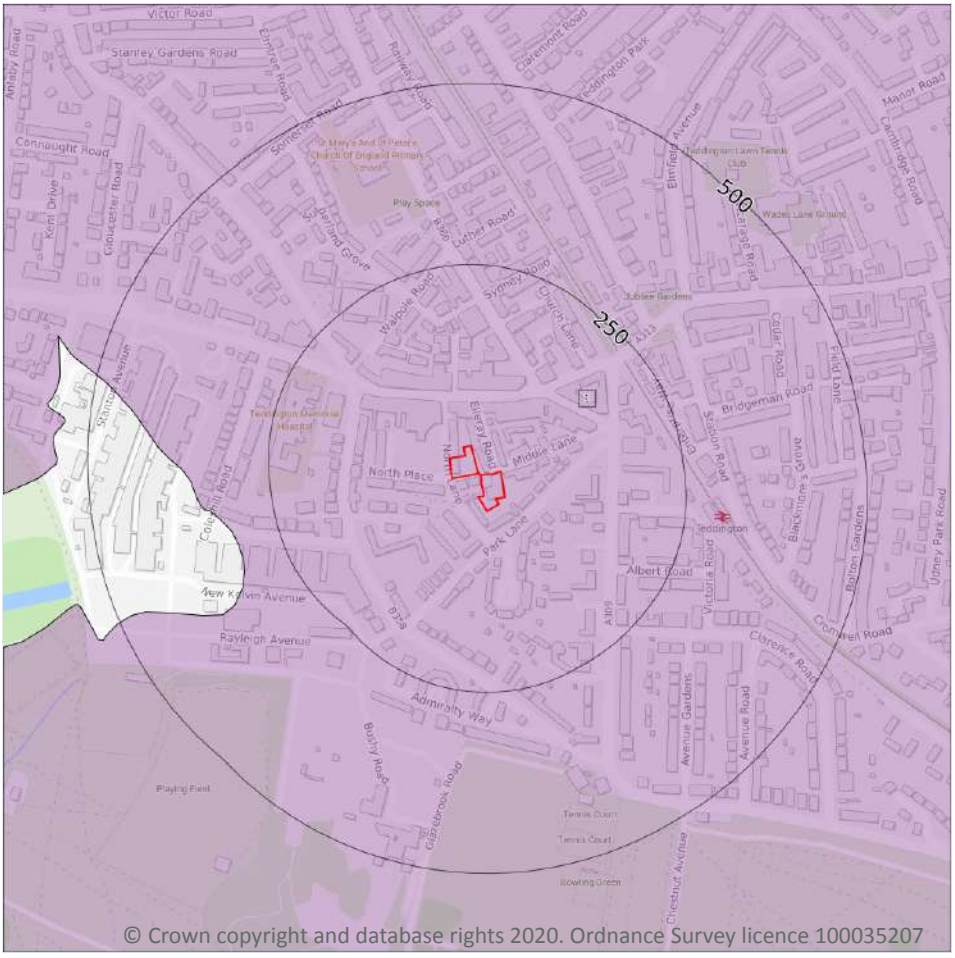
Features are displayed on the Current industrial land use map on **page 39**

ID: F, Location: 221m SW, Permit: AG7377
Operator: LGC LTD
Address: QUEENS ROAD TEDDINGTON MIDDLESEX TW11 0LY
Releases:

Route	Substance	Quantity released
Wastewater	Tritium	Below Reporting Threshold -
Wastewater	Carbon 14	Below Reporting Threshold -
Air	Tritium	Below Reporting Threshold -
Air	Carbon 14	Below Reporting Threshold -
Air	Iodine 129	Below Reporting Threshold -
Wastewater	Cobalt 60	Below Reporting Threshold -
Wastewater	Caesium 134	Below Reporting Threshold -
Wastewater	Caesium 137	Below Reporting Threshold -
Wastewater	Total Alpha	Below Reporting Threshold -
Wastewater	Total Beta/Gamma (Excl Tritium)	11.14MBq -

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	1

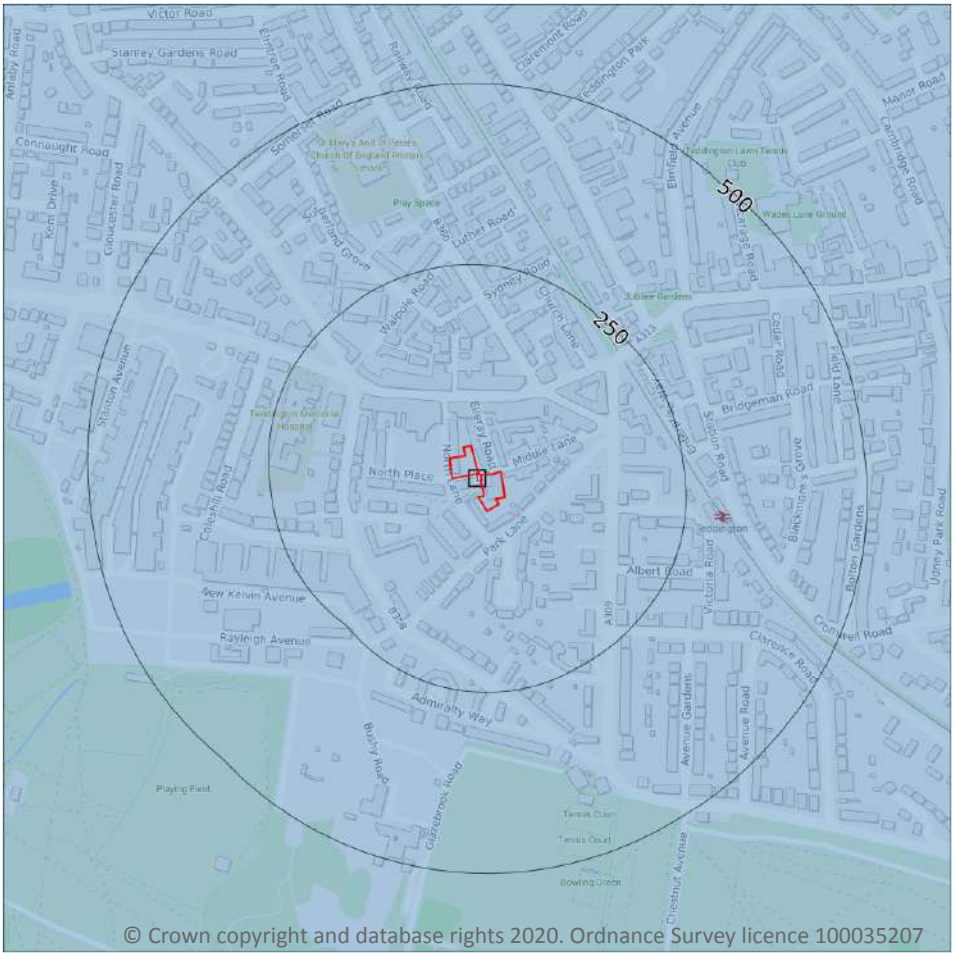
Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 50**

ID	Location	Designation	Description
1	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

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	1

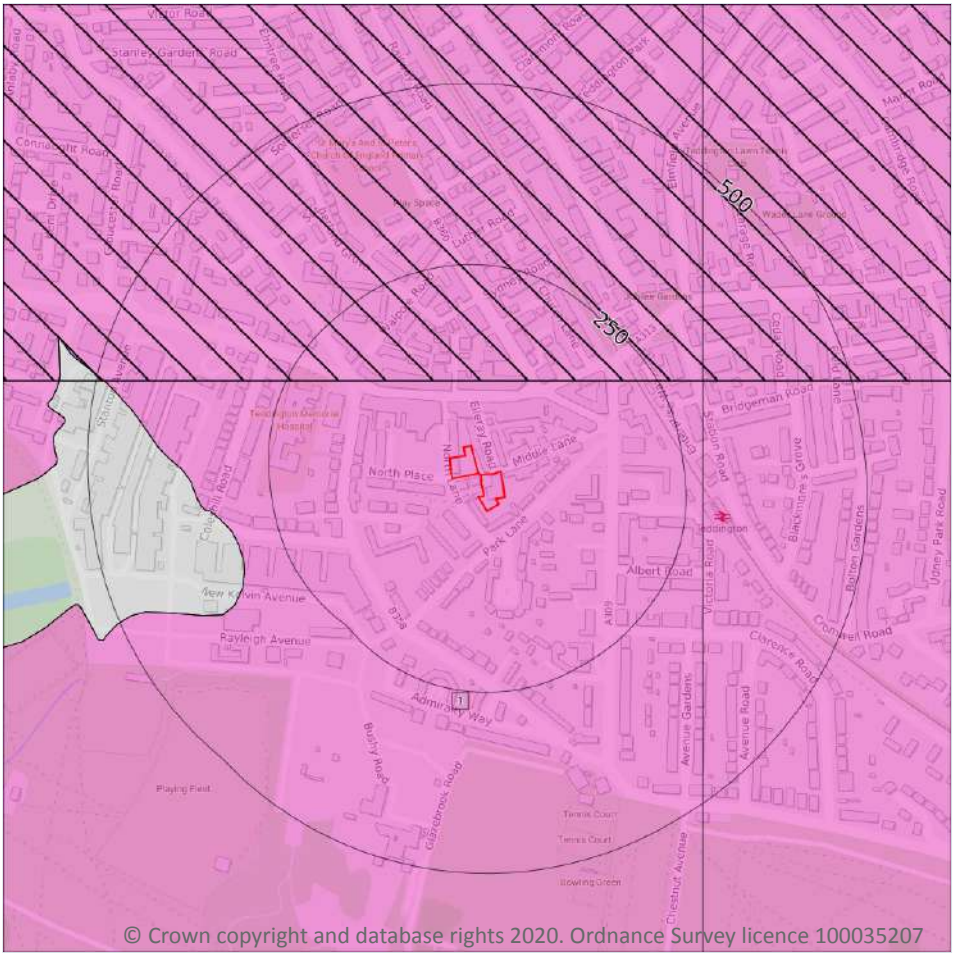
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 51**

ID	Location	Designation	Description
1	On site	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



Site Outline

Search buffers in metres (m)

Superficial vulnerability

- Principal superficial aquifer, high vulnerability
- Secondary superficial aquifer, high vulnerability
- Principal superficial aquifer, medium vulnerability
- Secondary superficial aquifer, medium vulnerability
- Principal superficial aquifer, low vulnerability
- Secondary superficial aquifer, low vulnerability

Bedrock vulnerability

- Principal bedrock aquifer, high vulnerability
- Secondary bedrock aquifer, high vulnerability
- Principal bedrock aquifer, medium vulnerability
- Secondary bedrock aquifer, medium vulnerability
- Principal bedrock aquifer, low vulnerability
- Secondary bedrock aquifer, low vulnerability

Other information

- Unproductive aquifer
- Soluble rock risk
- Local information

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 52**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	**Summary Classification: Principal superficial aquifer - Medium Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer**	**Leaching class: Intermediate Infiltration value: >70% Dilution value: 300-550mm/year**	**Vulnerability: Medium Aquifer type: Principal Thickness: 3-10m Patchiness value: <90% Recharge potential: High**	**Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Mixed**

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site	0

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

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

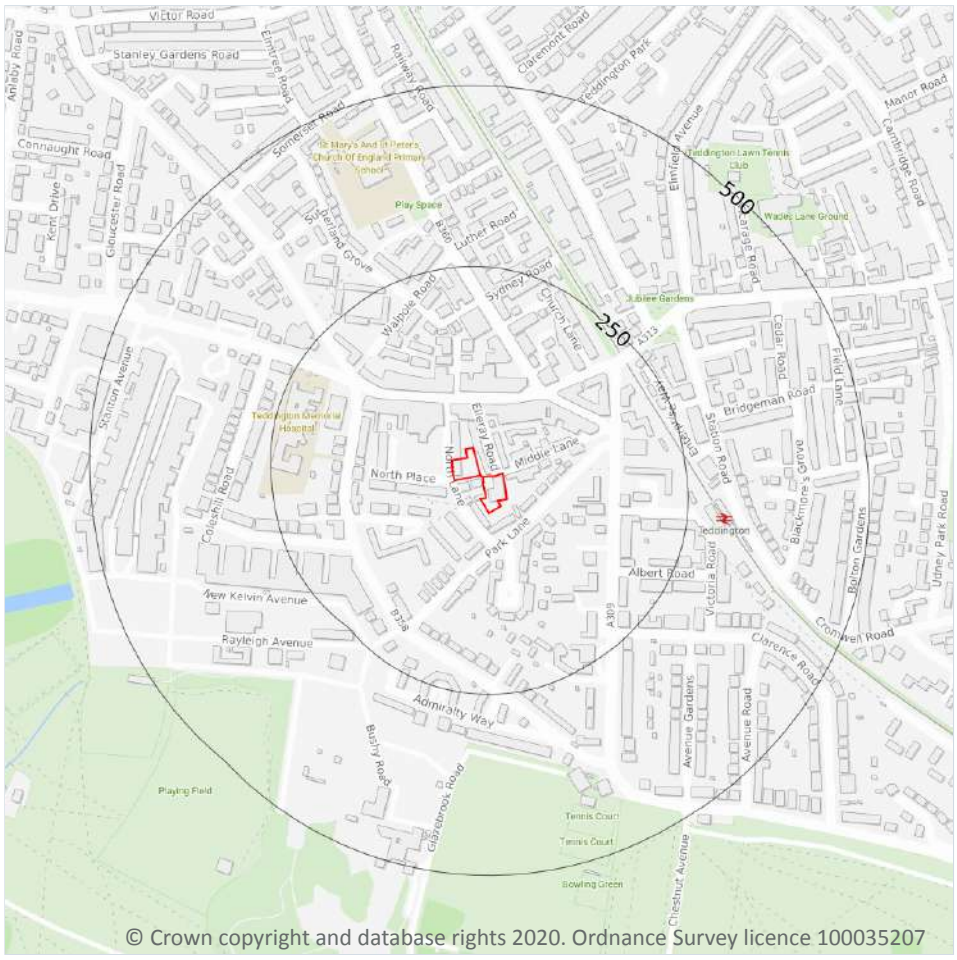
5.5 Groundwater vulnerability- local information

Records on site	0

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

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

Abstractions and Source Protection Zones



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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
- 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	8

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 54**

ID	Location	Details	
-	1025m E	Status: Active Licence No: 28/39/34/0010 Details: Spray Irrigation - Direct Direct Source: THAMES GROUNDWATER Point: BOREHOLE 'A' AT LENSBURY CLUB, TEDDINGTON Data Type: Point Name: THE CATHOLIC EDUCATION SERVICE Easting: 516680 Northing: 171240	Annual Volume (m^3): 3,000 Max Daily Volume (m^3): 45.45 Original Application No: - Original Start Date: 22/12/2000 Expiry Date: - Issue No: 1 Version Start Date: 01/04/2008 Version End Date: -
-	1025m E	Status: Active Licence No: 28/39/34/0010 Details: Spray Irrigation - Direct Direct Source: THAMES GROUNDWATER Point: BOREHOLE 'A' AT LENSBURY CLUB, TEDDINGTON Data Type: Point Name: THE CATHOLIC EDUCATION SERVICE Easting: 516680 Northing: 171240	Annual Volume (m^3): 3,000 Max Daily Volume (m^3): 45.45 Original Application No: - Original Start Date: 22/12/2000 Expiry Date: - Issue No: 1 Version Start Date: 01/04/2008 Version End Date: -
-	1354m E	Status: Historical Licence No: 28/39/34/0007 Details: Spray Irrigation - Direct Direct Source: THAMES GROUNDWATER Point: BOREHOLE 'B' AT LENSBURY CLUB, TEDDINGTON Data Type: Point Name: LENSBURY LIMITED Easting: 517020 Northing: 171260	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/11/1986 Expiry Date: - Issue No: 101 Version Start Date: 22/12/2000 Version End Date: -
-	1354m E	Status: Historical Licence No: 28/39/34/0007 Details: Spray Irrigation - Direct Direct Source: THAMES GROUNDWATER Point: BOREHOLE 'B' AT LENSBURY CLUB, TEDDINGTON Data Type: Point Name: LENSBURY LIMITED Easting: 517020 Northing: 171260	Annual Volume (m^3): 7000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 28/11/1986 Expiry Date: - Issue No: 102 Version Start Date: 23/11/2001 Version End Date: -

ID	Location	Details	
-	1357m E	Status: Historical Licence No: 28/39/34/0007 Details: Spray Irrigation - Direct Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT LENSBURY CLUB, TEDDINGTON Data Type: Point Name: LENSBURY LIMITED Easting: 517024 Northing: 171257	Annual Volume (m^3): 7000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 28/11/1986 Expiry Date: - Issue No: 104 Version Start Date: 29/02/2016 Version End Date: -
-	1357m E	Status: Active Licence No: 28/39/34/0007 Details: Spray Irrigation - Direct Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT LENSBURY CLUB, TEDDINGTON Data Type: Point Name: LENSBURY LIMITED Easting: 517024 Northing: 171257	Annual Volume (m^3): 12,000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 28/11/1986 Expiry Date: - Issue No: 105 Version Start Date: 15/02/2019 Version End Date: -
-	1357m E	Status: Active Licence No: 28/39/34/0007 Details: Spray Irrigation - Storage Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT LENSBURY CLUB, TEDDINGTON Data Type: Point Name: LENSBURY LIMITED Easting: 517024 Northing: 171257	Annual Volume (m^3): 12,000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 28/11/1986 Expiry Date: - Issue No: 105 Version Start Date: 15/02/2019 Version End Date: -
-	1545m SW	Status: Active Licence No: 28/39/31/0172 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: THAMES GROUNDWATER Point: HAMPTON POOL BOREHOLE Data Type: Point Name: HAMPTON POOL LIMITED Easting: 514300 Northing: 170120	Annual Volume (m^3): 15,000 Max Daily Volume (m^3): 200 Original Application No: - Original Start Date: 02/04/1997 Expiry Date: - Issue No: 100 Version Start Date: 02/04/1997 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m	**0**

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.

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

5.8 Potable abstractions

Records within 2000m	0

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

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

5.9 Source Protection Zones

Records within 500m	0

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

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

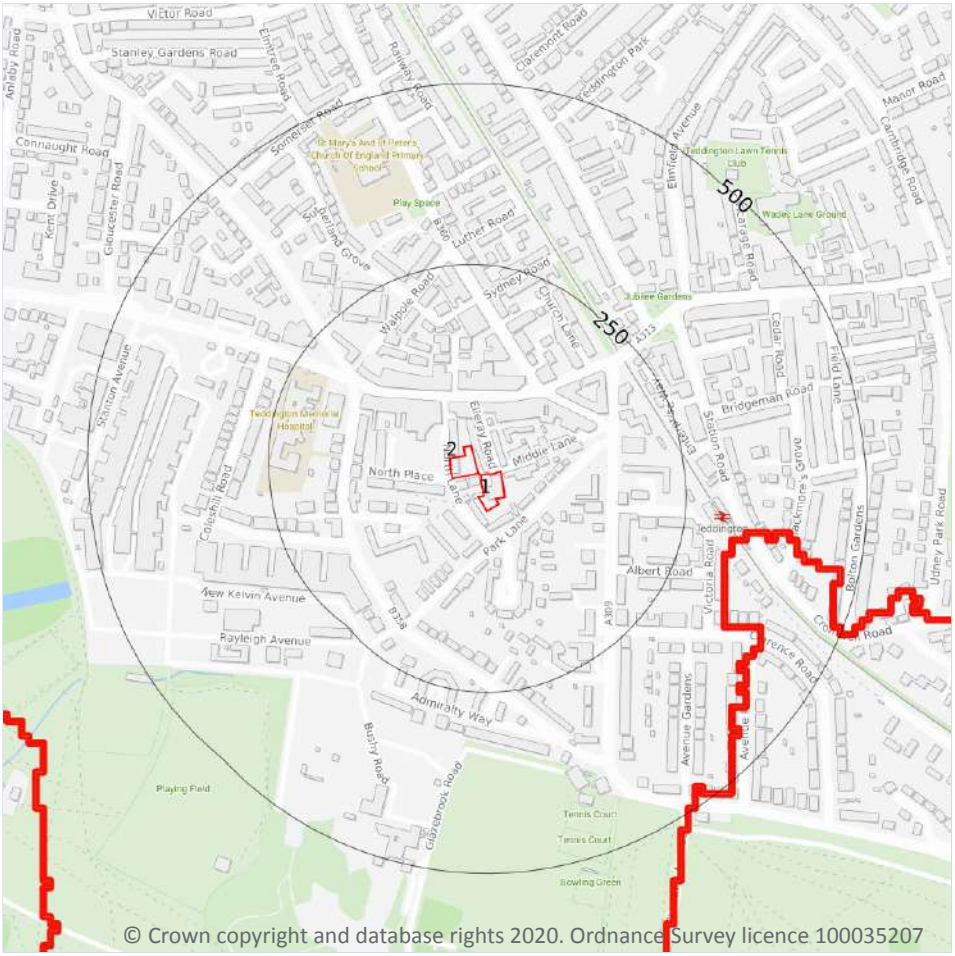
5.10 Source Protection Zones (confined aquifer)

Records within 500m	0

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

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

6 Hydrology



Site Outline

Search buffers in metres (m)

Water Network (OS MasterMap)

Surface water features (wider than 5m)

Surface water features (narrower than 5m)

WFD River, canal and surface water transfer water bodies

WFD Lake water bodies

WFD Transitional and coastal water bodies

WFD Surface water body catchments boundaries

WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m	0

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

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	0

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.

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 58**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
2	**On site**	**Coastal Catchment**	**Not part of a river WB catchment**	**131**	**Land area part of London Management Catchment draining to the Tidal Thames**	**London**

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

6.4 WFD Surface water bodies

Records identified	0

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

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

6.5 WFD Groundwater bodies

Records on site	1

Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. 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 58**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
1	**On site**	**Lower Thames Gravels**	**GB40603G000300**	**Good**	**Good**	**Good**	**2015**

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

7 River and coastal flooding

7.1 Risk of Flooding from Rivers and Sea (RoFRaS)

Records within 50m	0

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 100 chance) or High (greater than or equal to 1 in 30 chance).

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

7.2 Historical Flood Events

Records within 250m	0

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

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

7.3 Flood Defences

Records within 250m	0

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

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

7.4 Areas Benefiting from Flood Defences

Records within 250m	0

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

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

7.5 Flood Storage Areas

Records within 250m	0

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

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

River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m	0

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

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

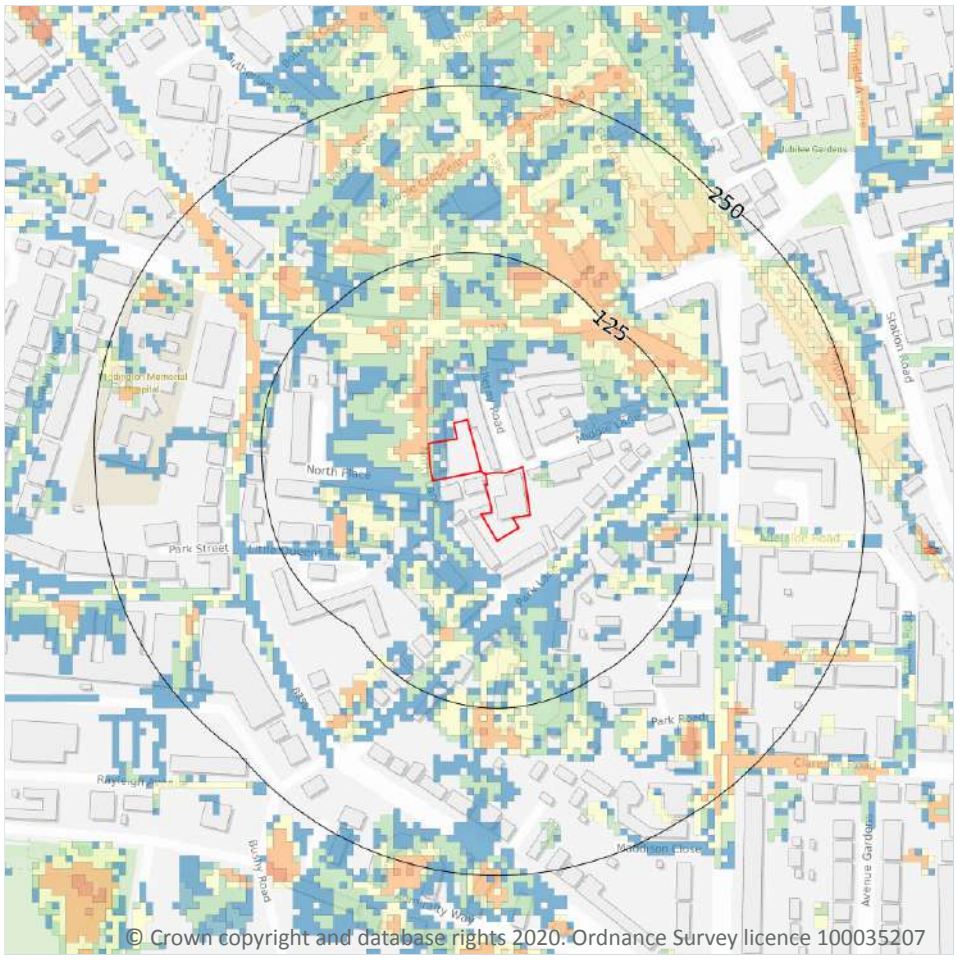
7.7 Flood Zone 3

Records within 50m	0

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

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

8 Surface water flooding



Site Outline

Search buffers in metres (m)

1 in 1000 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 250 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 100 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 30 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

8.1 Surface water flooding

Highest risk on site	**1 in 250 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 64**

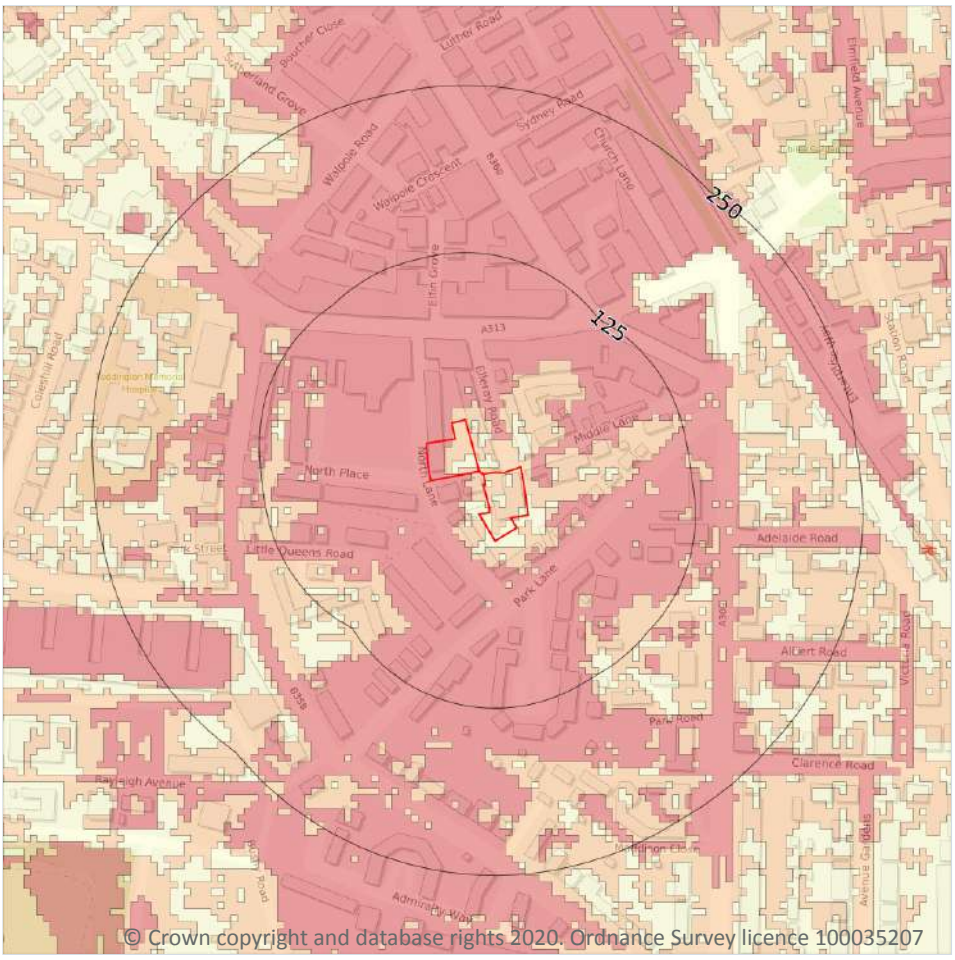
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

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 0.05m and 0.1m
1 in 30 year	Negligible

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding



9.1 Groundwater flooding

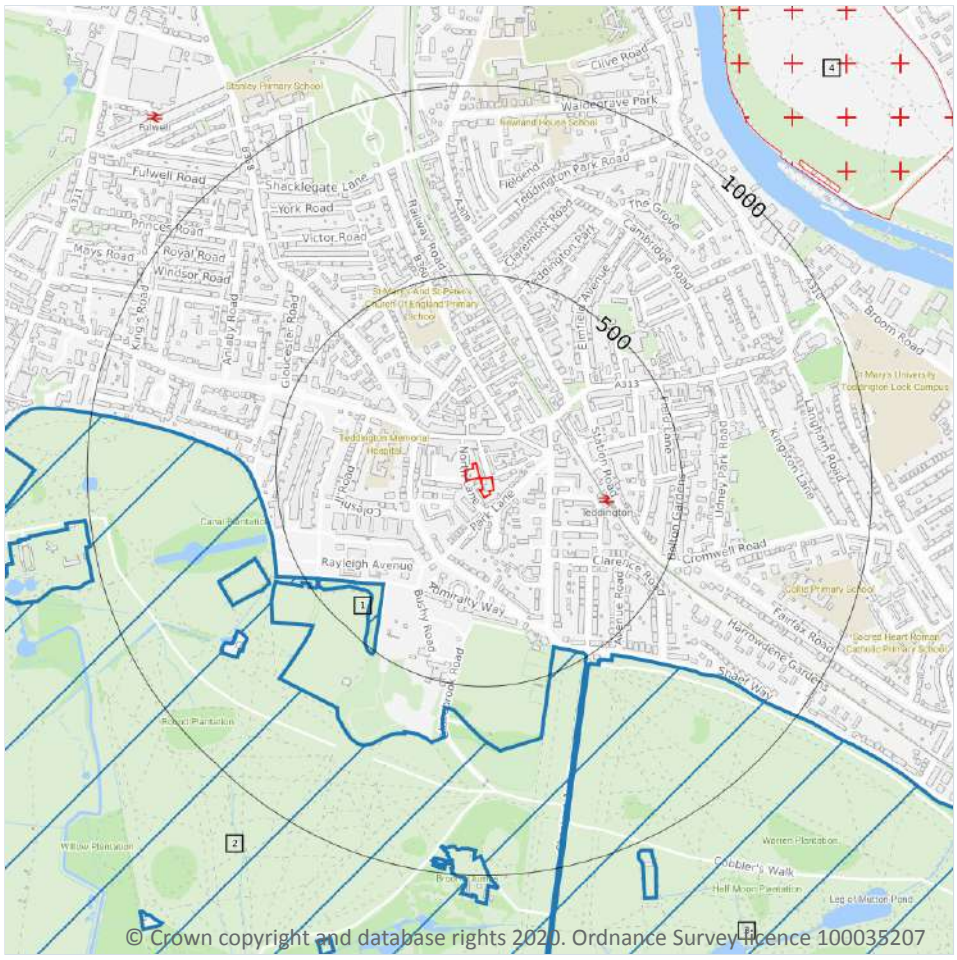
Highest risk on site	**High**
Highest risk within 50m	**High**

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

Features are displayed on the Groundwater flooding map on **page 66**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



Site Outline

Search buffers in metres (m)

Sites of Special Scientific Interest (SSSI)

Local Nature Reserves (LNR)

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	3

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 67**

ID	Location	Name	Data source
1	351m SW	Bushy Park and Home Park	Natural England

ID	Location	Name	Data source
2	436m SE	Bushy Park and Home Park	Natural England
3	520m SE	Bushy Park and Home Park	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	2

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

Features are displayed on the Environmental designations map on **page 67**

ID	Location	Name	Data source
4	1140m NE	Ham Lands	Natural England
-	1536m N	Ham Lands	Natural England

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

10.7 Designated Ancient Woodland

Records within 2000m	0

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.

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

10.8 Biosphere Reserves

Records within 2000m	0

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

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

10.9 Forest Parks

Records within 2000m	0

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

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m	0

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

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

10.11 Green Belt

Records within 2000m	0

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

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

10.12 Proposed Ramsar sites

Records within 2000m	0

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

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m	0

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

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

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m	0

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

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m	0

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

This data is sourced from Natural England.

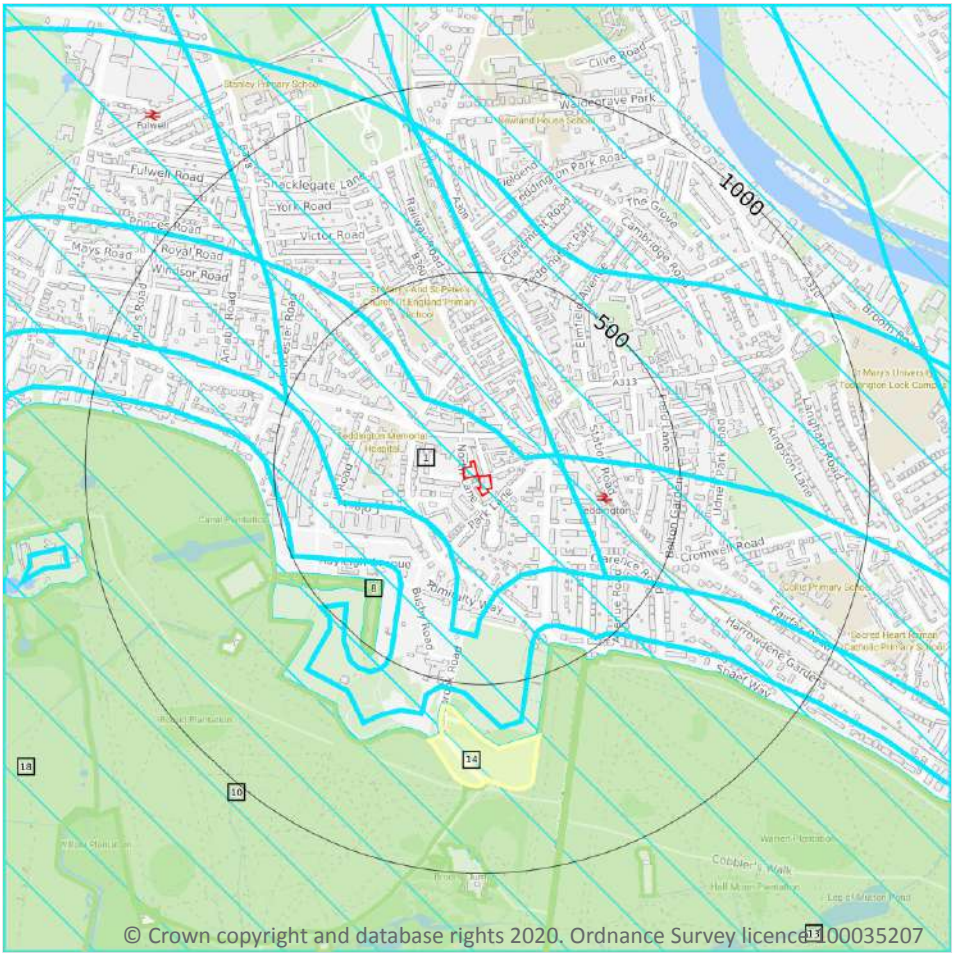
10.16 Nitrate Vulnerable Zones

Records within 2000m	0

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

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

SSSI Impact Zones and Units



Site Outline

Search buffers in metres (m)

SSSI Impact Risk Zones

SSSI Units

Not recorded

Favourable

Unfavourable - Recovering

Unfavourable - No change

Unfavourable - Declining

Partially destroyed

Destroyed

10.17 SSSI Impact Risk Zones

Records on site	1

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

Features are displayed on the SSSI Impact Zones and Units map on **page 72**

ID	Location	Type of developments requiring consultation
1	**On site**	**Infrastructure - Airports, helipads and other aviation proposals.** **Minerals, Oil and Gas - Oil & gas exploration/extraction.** **Air pollution - Any development that could cause AIR POLLUTION (incl: industrial/commercial processes, livestock & poultry units, slurry lagoons/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 of more than 20m³/day to ground (ie to seep away) or to surface water, such as a beck or stream (NB This does not include discharges to mains sewer which are unlikely to pose a risk at this location)**

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	**6**

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 72**

ID: 8
Location: 351m SW
SSSI name: Bushy Park and Home Park
Unit name: North Bushy Park
Broad habitat: Acid Grassland - Lowland
Condition: Favourable
Reportable features:

Feature name	Feature condition	Date of assessment
Invert. assemblage A2 wood decay	Favourable	16/06/2014
Lowland dry acid grassland (U4)	Favourable	16/06/2014
Population of veteran trees	Favourable	28/03/2017

ID: 9
Location: 436m SE
SSSI name: Bushy Park and Home Park
Unit name: Woodland Gardens & Court Field
Broad habitat: Acid Grassland - Lowland
Condition: Favourable
Reportable features:

Feature name	Feature condition	Date of assessment
Invert. assemblage A2 wood decay	Favourable	16/06/2014
Lowland dry acid grassland (U4)	Favourable	16/06/2014
Population of veteran trees	Favourable	28/03/2017

ID: 10
Location: 471m SW
SSSI name: Bushy Park and Home Park
Unit name: North Bushy Park
Broad habitat: Acid Grassland - Lowland
Condition: Favourable
Reportable features:

Feature name	Feature condition	Date of assessment
Invert. assemblage A2 wood decay	Favourable	16/06/2014
Lowland dry acid grassland (U4)	Favourable	16/06/2014
Population of veteran trees	Favourable	28/03/2017

ID: 13
Location: 520m SE
SSSI name: Bushy Park and Home Park
Unit name: East Bushy Park
Broad habitat: Acid Grassland - Lowland
Condition: Favourable
Reportable features:

Feature name	Feature condition	Date of assessment
Invert. assemblage A2 wood decay	Favourable	16/06/2014
Lowland dry acid grassland (U1b,c,d,f)	Favourable	16/06/2014
Lowland dry acid grassland (U4)	Favourable	16/06/2014

Feature name	Feature condition	Date of assessment
Population of veteran trees	Favourable	28/03/2017

ID: 14
Location: 565m S
SSSI name: Bushy Park and Home Park
Unit name: N.p.l Woodland
Broad habitat: Broadleaved, Mixed And Yew Woodland - Lowland
Condition: Unfavourable - Recovering
Reportable features:

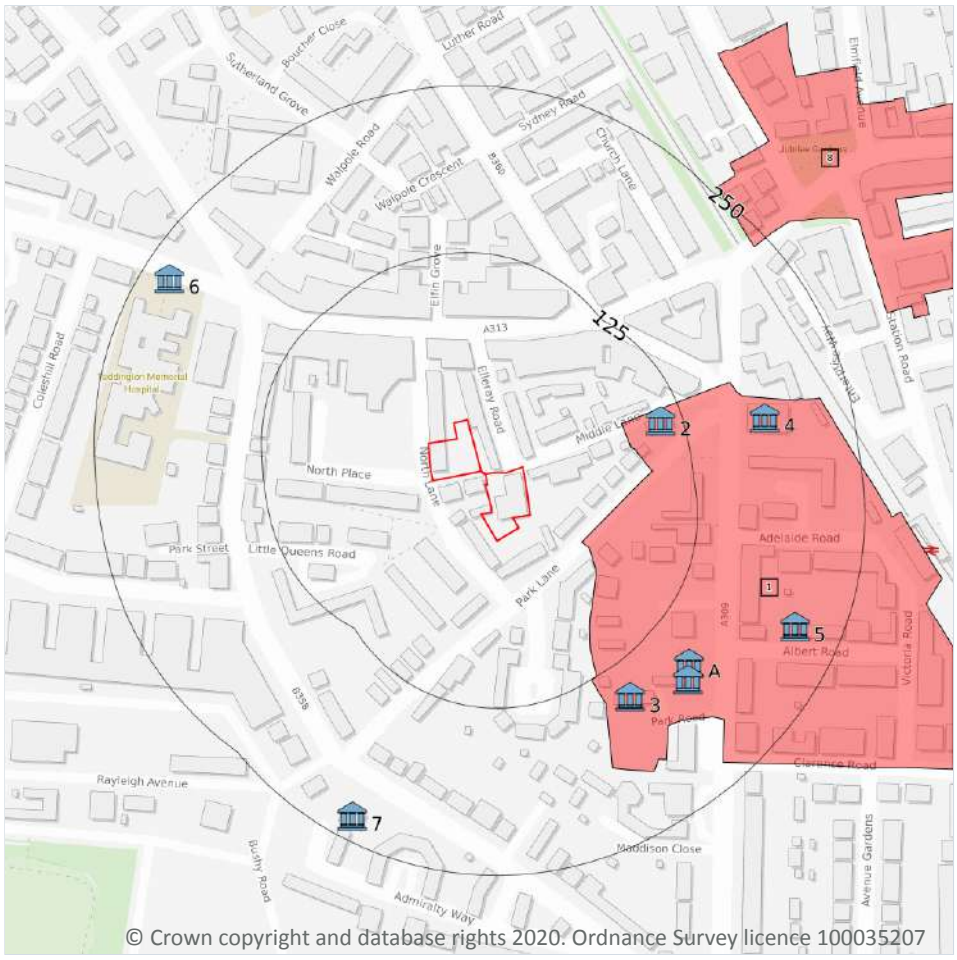
Feature name	Feature condition	Date of assessment
Invert. assemblage A2 wood decay	Favourable	28/02/2014
Population of veteran trees	Unfavourable - Recovering	28/02/2014

ID: 18
Location: 1111m W
SSSI name: Bushy Park and Home Park
Unit name: West Bushy Park
Broad habitat: Acid Grassland - Lowland
Condition: Favourable
Reportable features:

Feature name	Feature condition	Date of assessment
Invert. assemblage A2 wood decay	Favourable	16/06/2014
Lowland dry acid grassland (U4)	Favourable	16/06/2014
Population of veteran trees	Favourable	28/03/2017

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

11 Visual and cultural designations



Site Outline

Search buffers in metres (m)

Listed buildings

Conservation areas

Conservation areas - no data

National Parks

Areas of Outstanding Natural Beauty

Registered parks and gardens

Scheduled Monuments

World Heritage Sites

11.1 World Heritage Sites

Records within 250m	0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m	0

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

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

11.3 National Parks

Records within 250m	0

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

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

11.4 Listed Buildings

Records within 250m	8

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

Features are displayed on the Visual and cultural designations map on **page 76**

ID	Location	Name	Grade	Reference Number	Listed date
2	109m E	Adelaide House Clarence House, Richmond Upon Thames, London,ADELAIDE HOUSE	II	1391771	22/09/2006
3	151m SE	Norfolk Lodge And Stable Block To North East, Richmond Upon Thames, London, TW11	II	1180645	22/02/1982
A	163m SE	The Elms, Richmond Upon Thames, London, TW11	II	1357754	02/09/1952
A	170m SE	Old Manor Cottage, Richmond Upon Thames, London, TW11	II	1065366	25/06/1983

ID	Location	Name	Grade	Reference Number	Listed date
4	185m E	Clarence Hotel, Richmond Upon Thames, London, TW11	II	1357755	25/06/1983
5	214m SE	Alma Cottage, Richmond Upon Thames, London, TW11	II	1358053	09/07/1973
6	230m NW	Teddington War Memorial, Richmond Upon Thames, London, TW11	II	1444660	18/05/2017
7	232m SW	North Lodge To The National Physical Laboratory, Richmond Upon Thames, London, TW11	II	1080874	25/06/1983

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

11.5 Conservation Areas

Records within 250m	**2**

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.

Features are displayed on the Visual and cultural designations map on **page 76**

ID	Location	Name	District	Date of designation
1	43m SE	Park Road (Teddington)	Richmond upon Thames	10/12/1974
8	239m NE	High Street (Teddington)	Richmond upon Thames	07/09/1982

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

11.6 Scheduled Ancient Monuments

Records within 250m	**0**

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

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

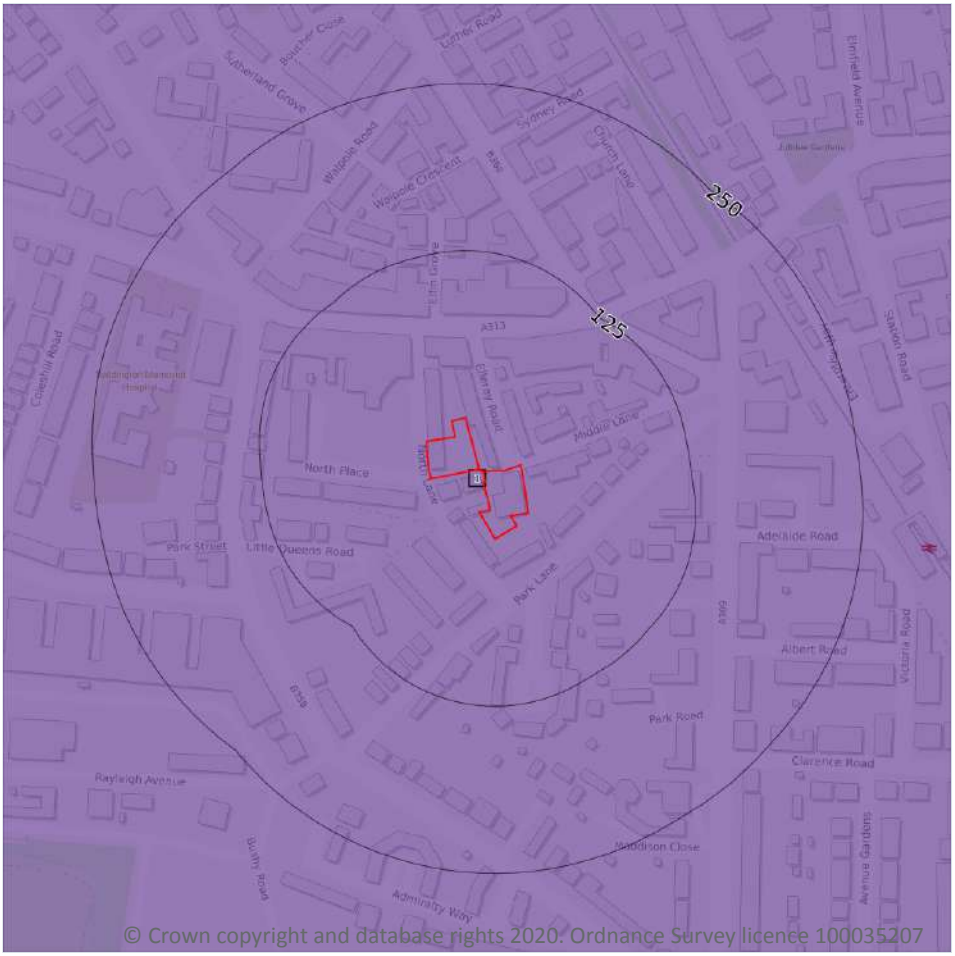
11.7 Registered Parks and Gardens

Records within 250m	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 English Heritage, Cadw and Historic Environment Scotland.

12 Agricultural designations



Site Outline

Search buffers in metres (m)

- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3 - good to moderate quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Non-agricultural land
- Urban land
- Exclusion land
- Tree felling licences
- Open Access land

12.1 Agricultural Land Classification

Records within 250m	1

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 80**

ID	Location	Classification	Description
1	**On site**	**Urban**	-

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	0

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment.

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m	0

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

This data is sourced from Natural England.

13 Habitat designations

13.1 Priority Habitat Inventory

Records within 250m	0

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

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m	0

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

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m	0

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

This data is sourced from Natural England.

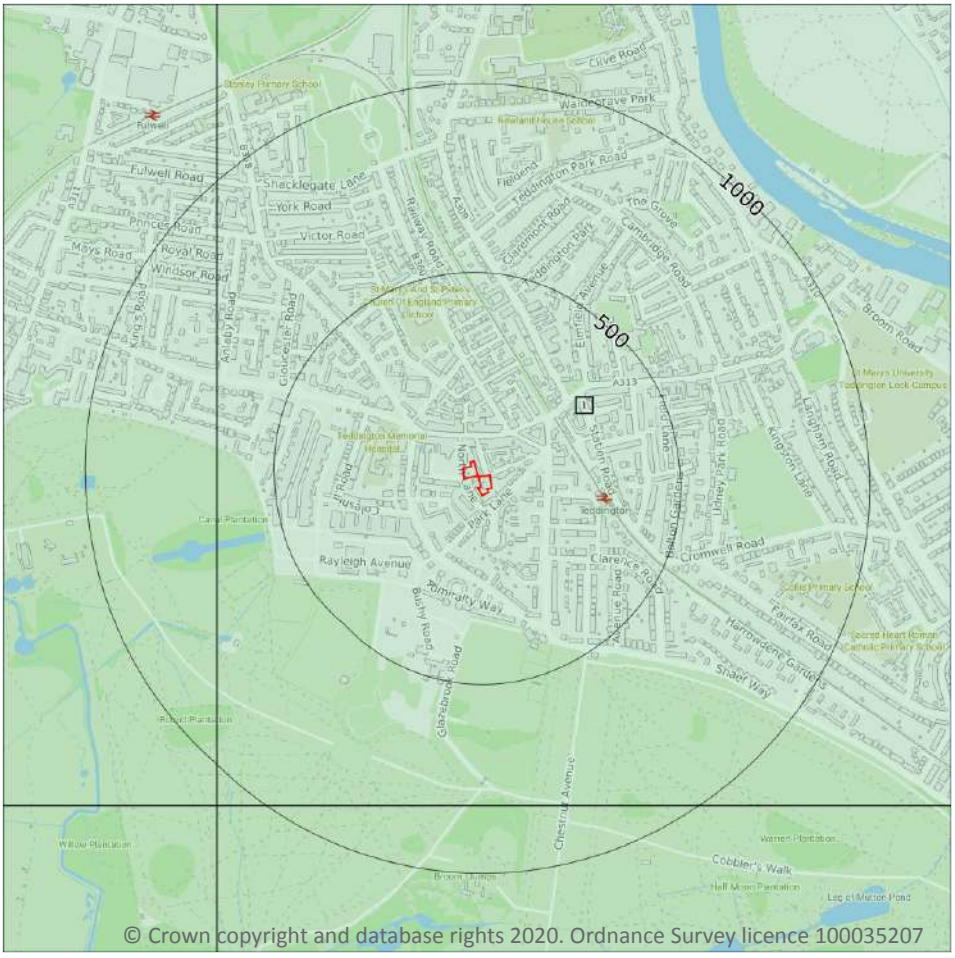
13.4 Limestone Pavement Orders

Records within 250m	0

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

This data is sourced from Natural England.

14 Geology 1:10,000 scale - Availability



Site Outline

Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m	1

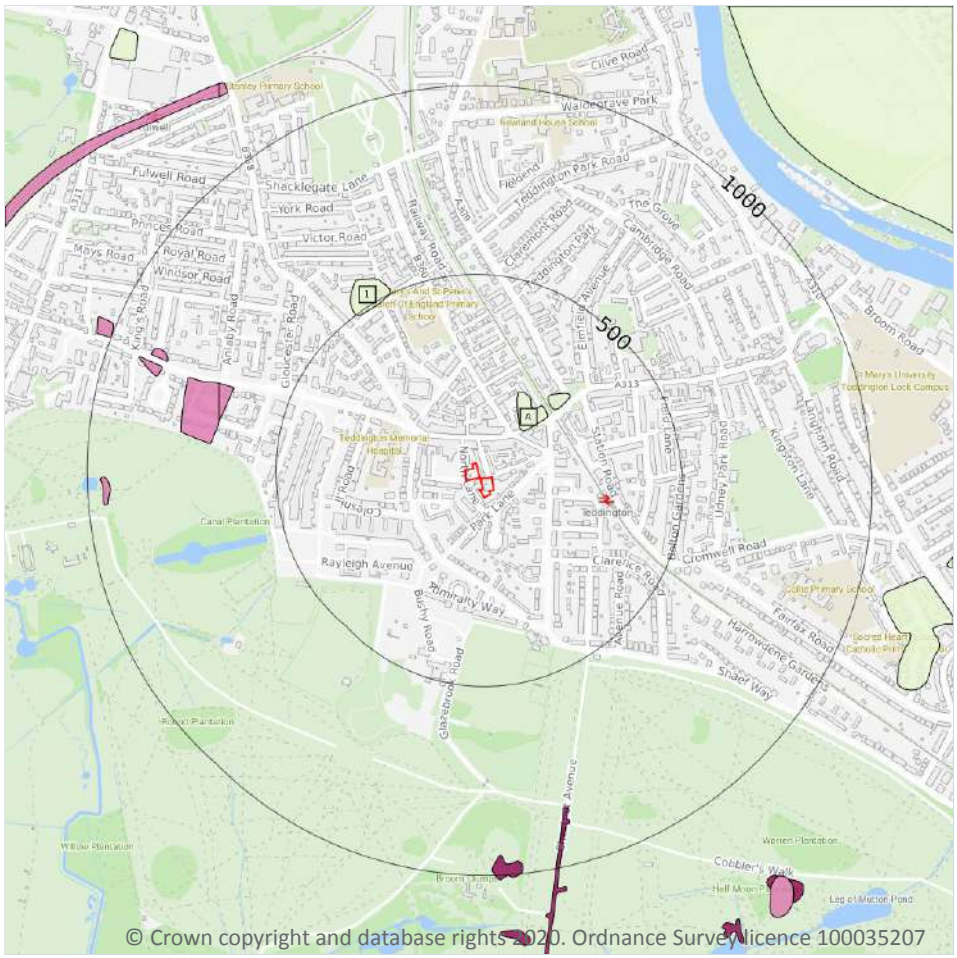
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 83**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**Full**	**TQ17SE**

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	3

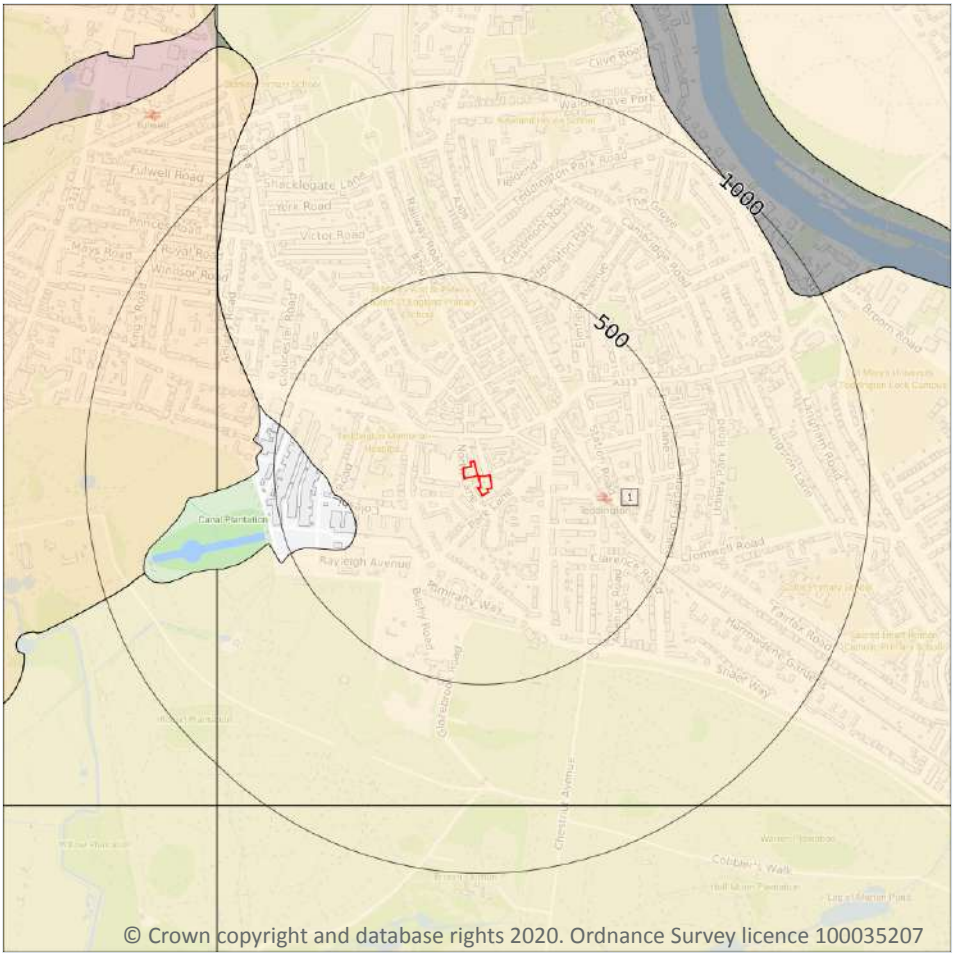
Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 84**

ID	Location	LEX Code	Description	Rock description
A	146m NE	WMGR-UKNOWN	Infilled Ground	Unknown/unclassified Entry
A	243m NE	WMGR-UKNOWN	Infilled Ground	Unknown/unclassified Entry
1	491m NW	WMGR-UKNOWN	Infilled Ground	Unknown/unclassified Entry

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (10k)

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

14.3 Superficial geology (10k)

Records within 500m	1

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 85**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**KPGR-XSV**	**Kempton Park Gravel Formation - Sand And Gravel**	**Sand And Gravel**

This data is sourced from the British Geological Survey.

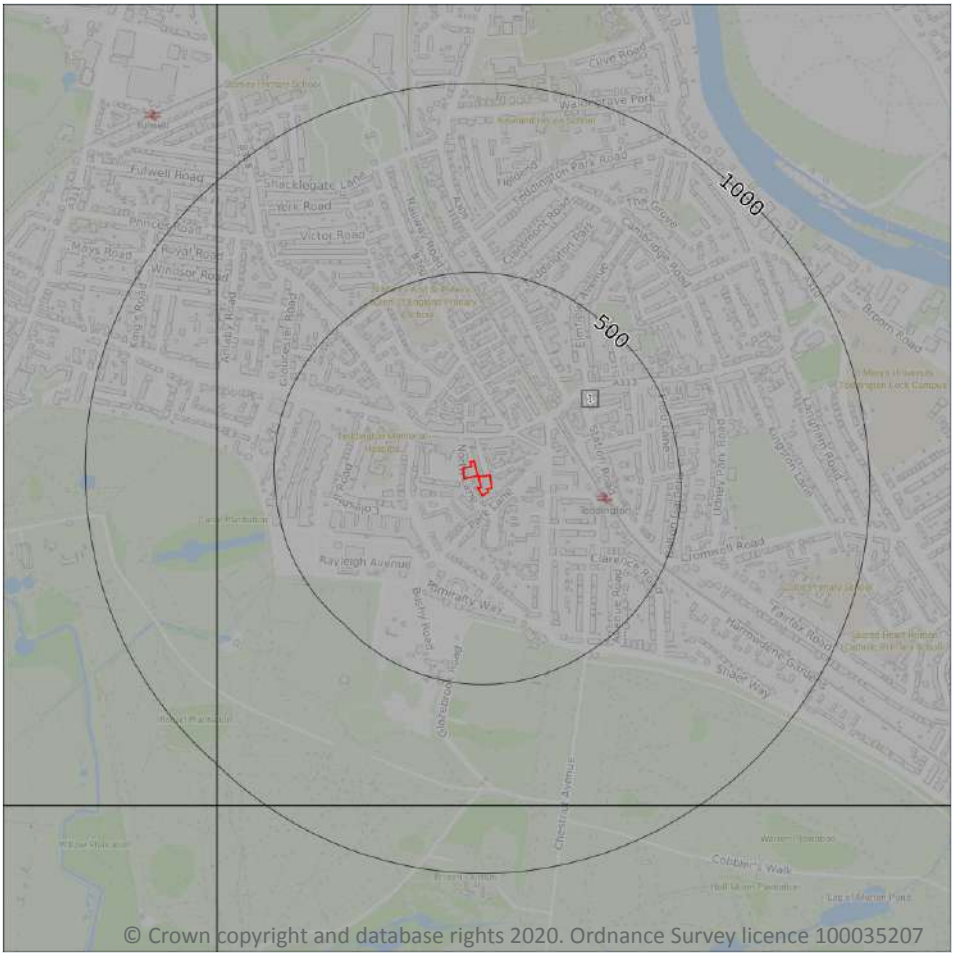
14.4 Landslip (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (10k)

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

14.5 Bedrock geology (10k)

Records within 500m	1

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 87**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**LC-CLAY**	**London Clay Formation - Clay**	**Eocene Epoch**

This data is sourced from the British Geological Survey.

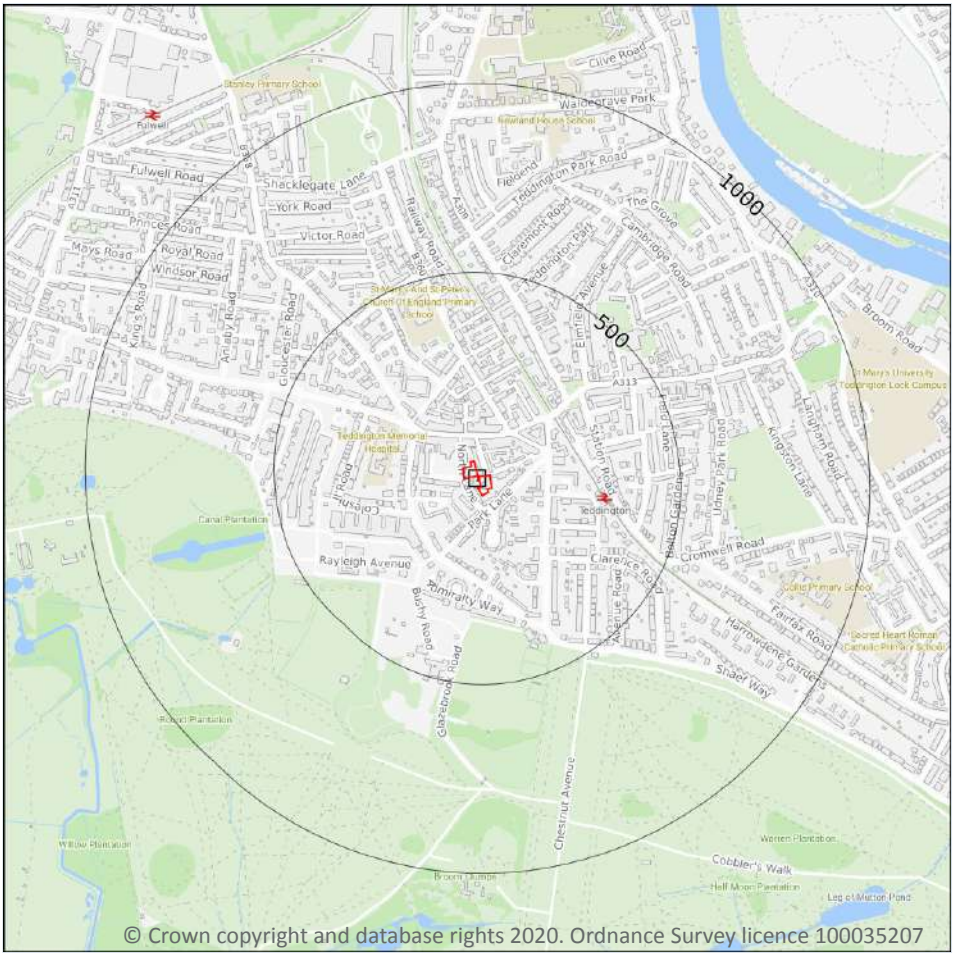
14.6 Bedrock faults and other linear features (10k)

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	1

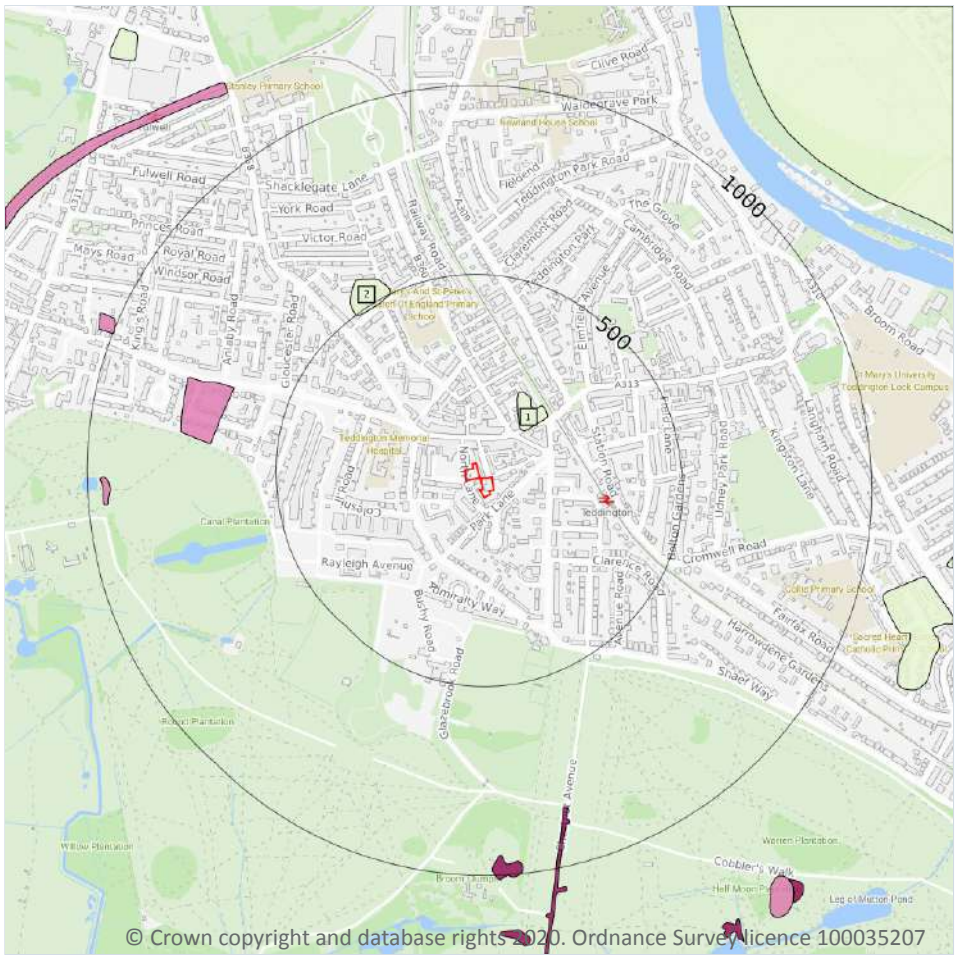
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 89**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**Full**	**EW270_south_london_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	2

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 90**

ID	Location	LEX Code	Description	Rock description
1	147m NE	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
2	491m NW	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

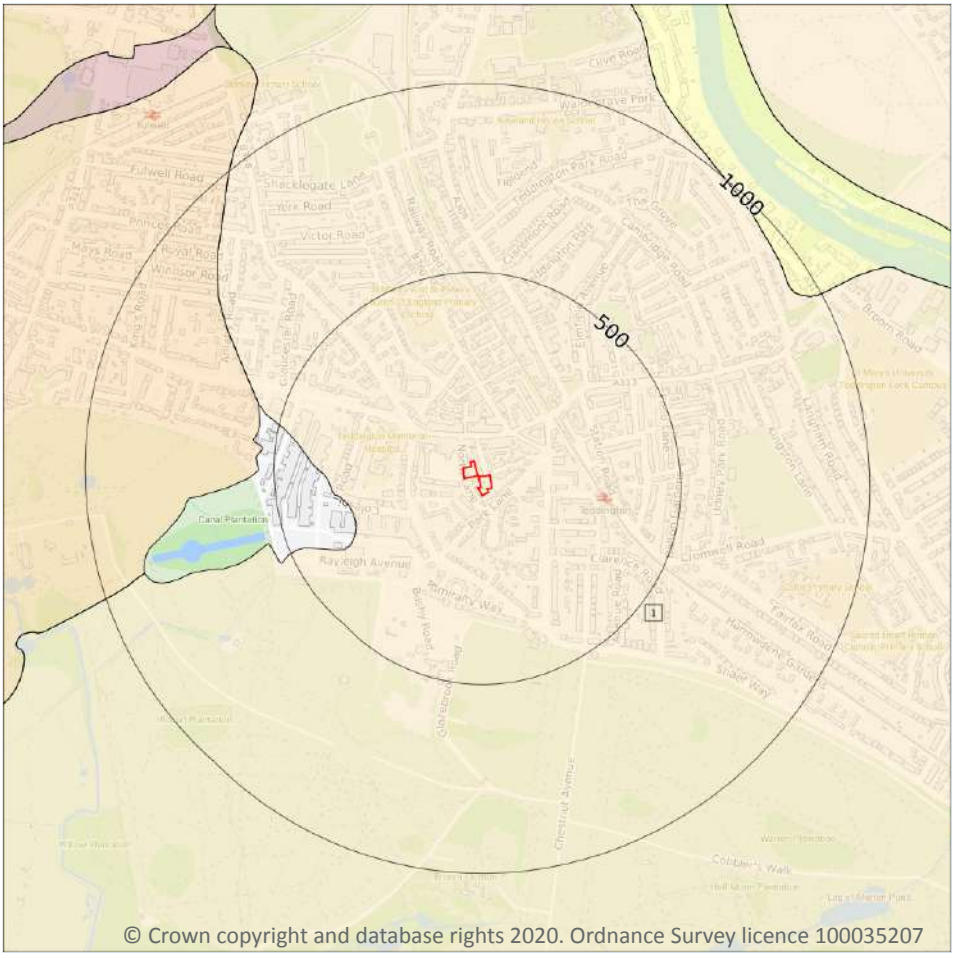
15.3 Artificial ground permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

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

15.4 Superficial geology (50k)

Records within 500m	1

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 92**

ID	Location	LEX Code	Description	Rock description
1	On site	KPGR-XSV	KEMPTON PARK GRAVEL MEMBER	SAND AND GRAVEL

This data is sourced from the British Geological Survey.

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

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

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.

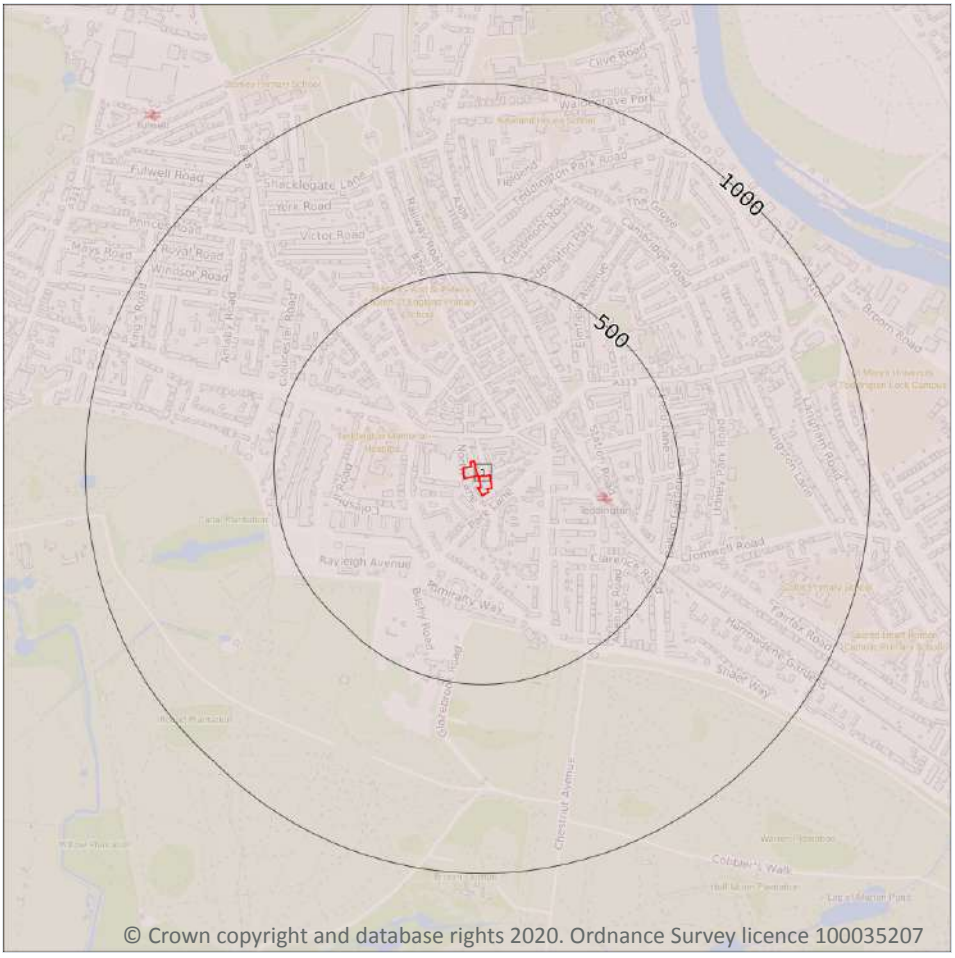
15.7 Landslip permeability (50k)

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	1

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 94**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**LC-XCZ**	**LONDON CLAY FORMATION - CLAY AND SILT**	**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	**Mixed**	**Low**	**Very Low**

This data is sourced from the British Geological Survey.

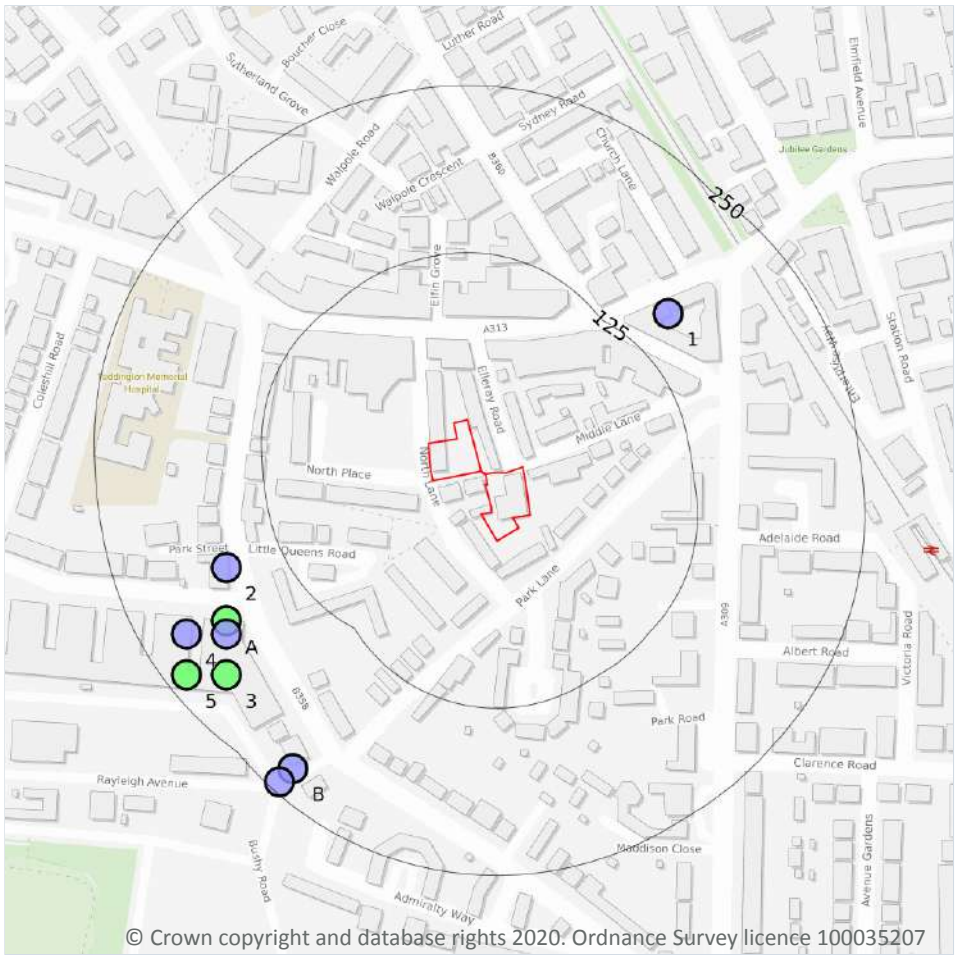
15.10 Bedrock faults and other linear features (50k)

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	9

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.

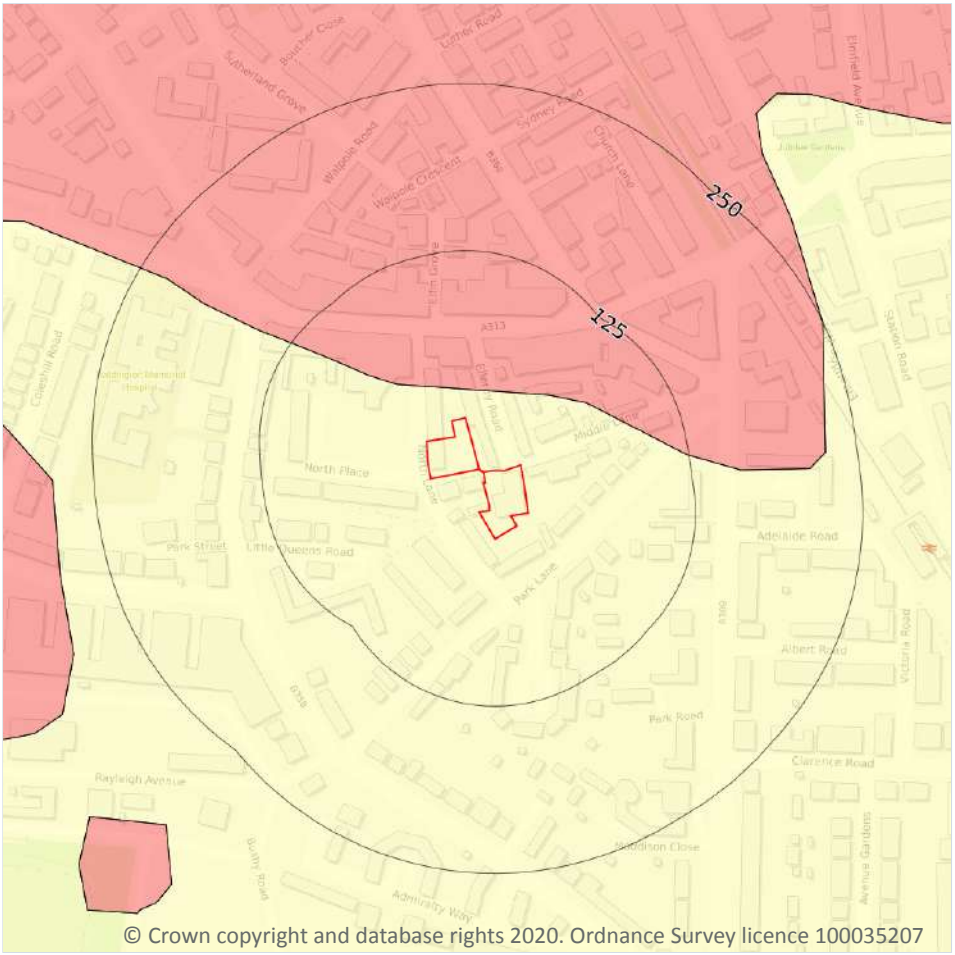
Features are displayed on the Boreholes map on **page 96**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	158m NE	515830 170990	THE CAUSEWAY TEDDINGTON 1	10.0	N	581618
2	168m SW	515500 170800	LITTLE QUEENS ROAD TWICKENHAM	9.6	N	581402
A	187m SW	515500 170760	GOVERNMENT CHEMIST LAB NPPL 13	10.6	N	581491

ID	Location	Grid reference	Name	Length	Confidential	Web link
A	193m SW	515500 170750	N.P.L.TEDDINGTON LAB OF THE GOV CHEMIST	10.0	N	581492
3	212m SW	515500 170720	GOVERNMENT CHEMIST LAB NPPL 12	20.0	N	581490
4	217m SW	515470 170750	GOVERNMENT CHEMIST LAB NPPL 11	10.0	N	581488
B	228m SW	515550 170650	NPL TEDDINGTON 6	1.91	N	581559
5	235m SW	515470 170720	GOVERNMENT CHEMIST LAB NPPL 10	10.3	N	581487
B	242m SW	515540 170640	NPL TEDDINGTON 5	1.83	N	581558

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



17.1 Shrink swell clays

Records within 50m	2

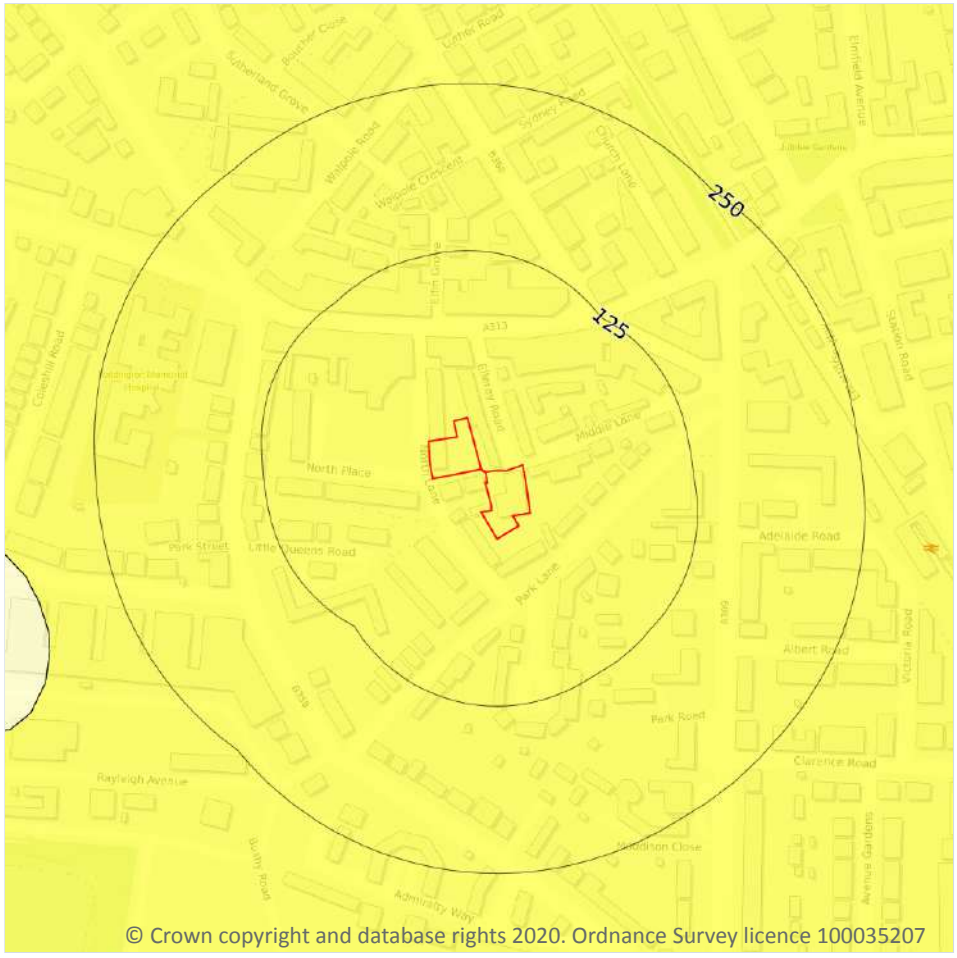
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 98**

Location	Hazard rating	Details
On site	**Negligible**	**Ground conditions predominantly non-plastic.**
21m N	Moderate	Ground conditions predominantly high 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

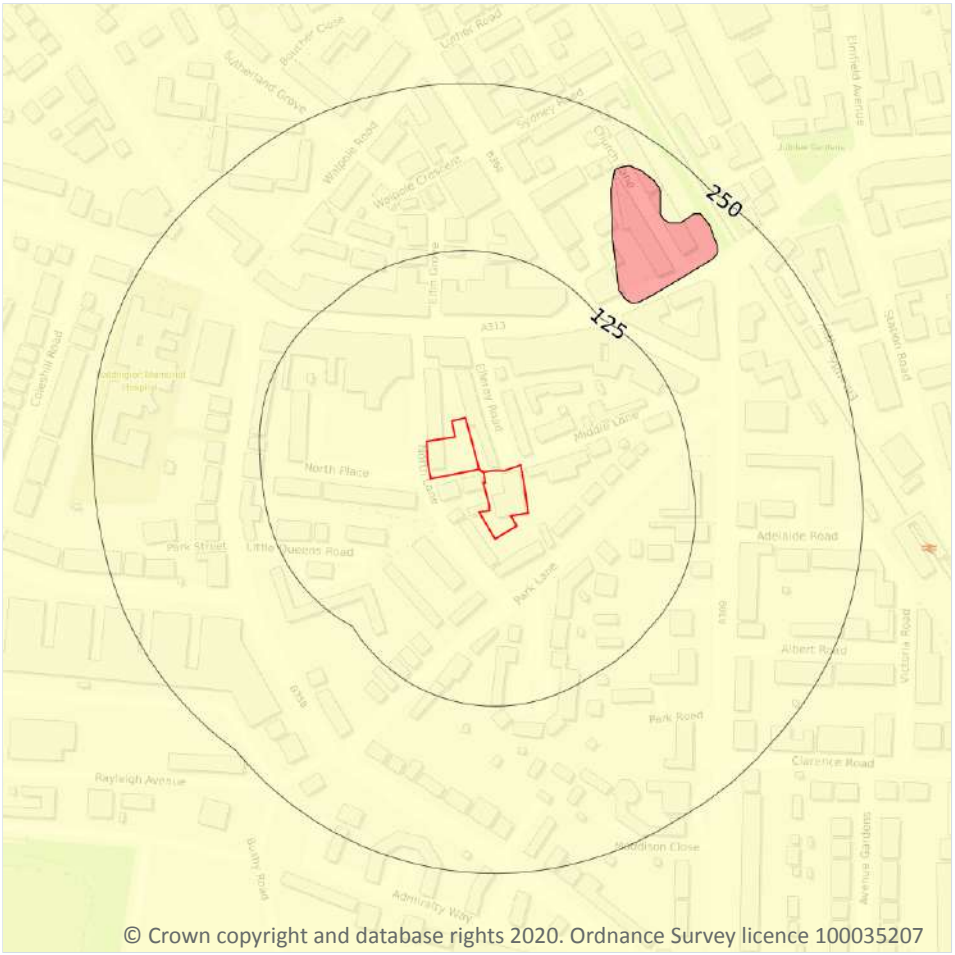
The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on **page 99**

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



17.3 Compressible deposits

Records within 50m	1

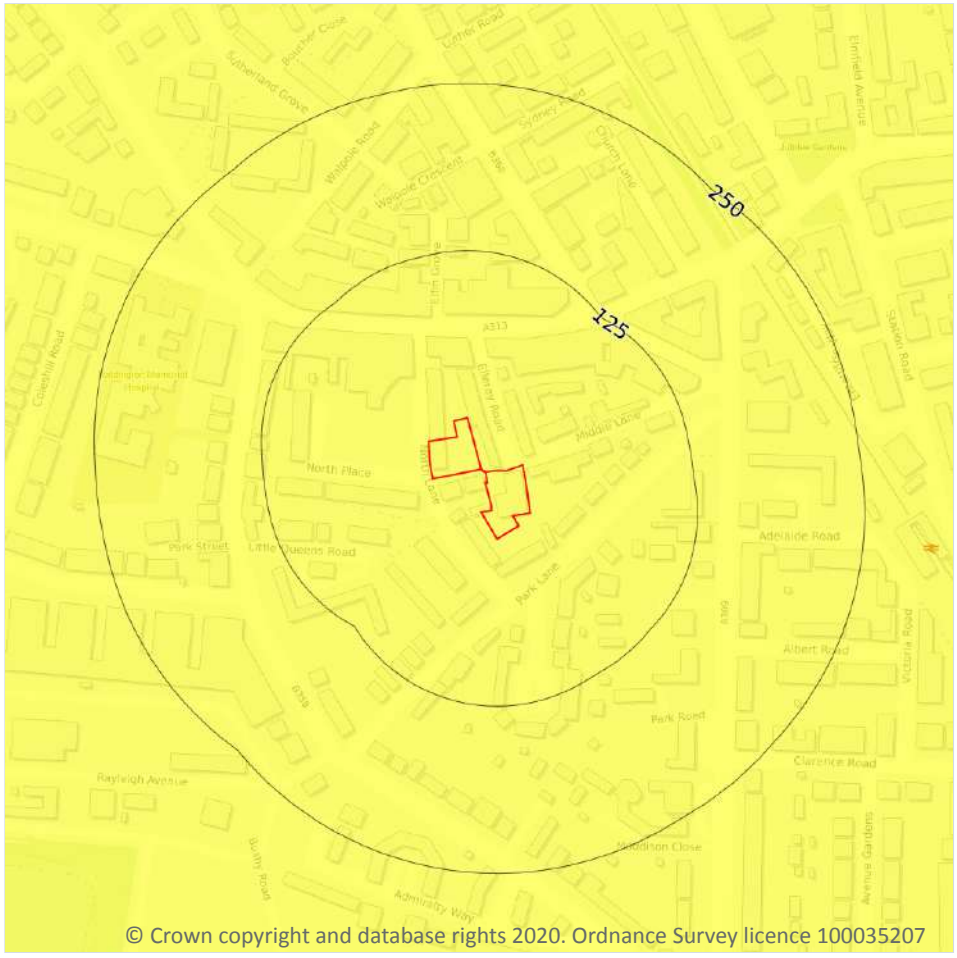
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 100**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



Site Outline

Search buffers in metres (m)

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

17.4 Collapsible deposits

Records within 50m	1

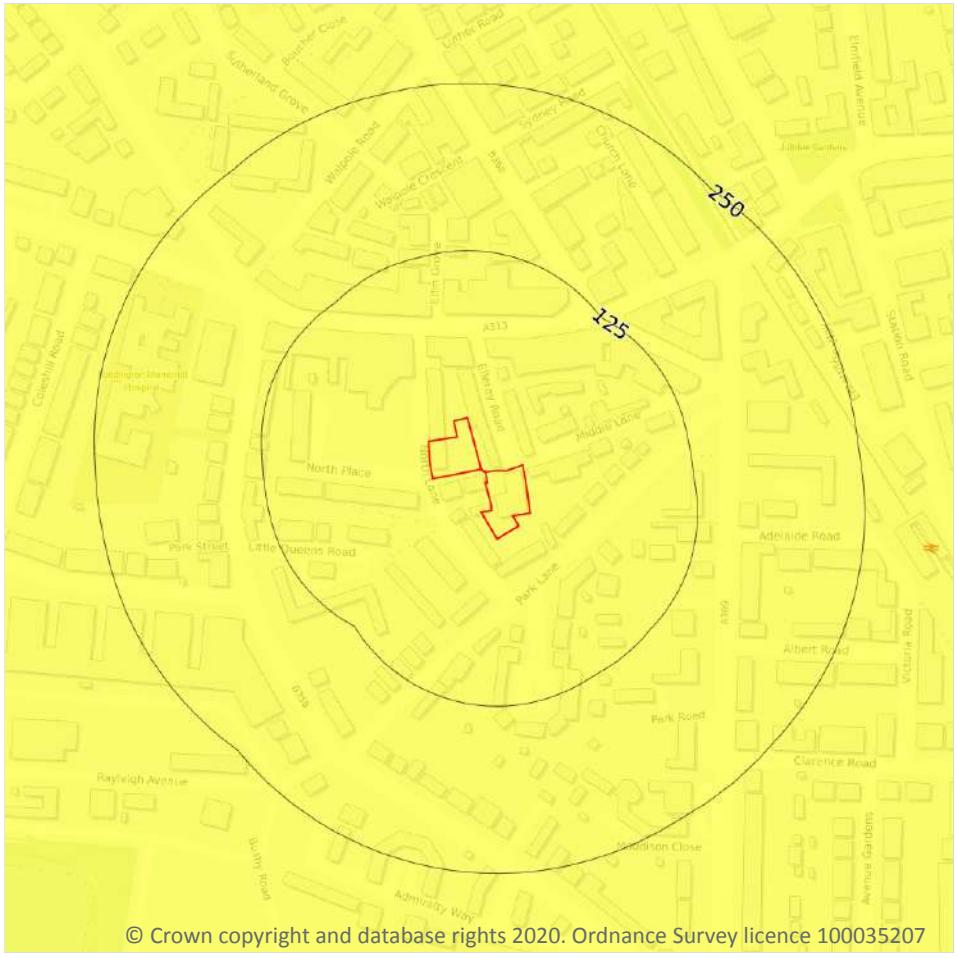
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 101**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



Site Outline

Search buffers in metres (m)

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

17.5 Landslides

Records within 50m	1

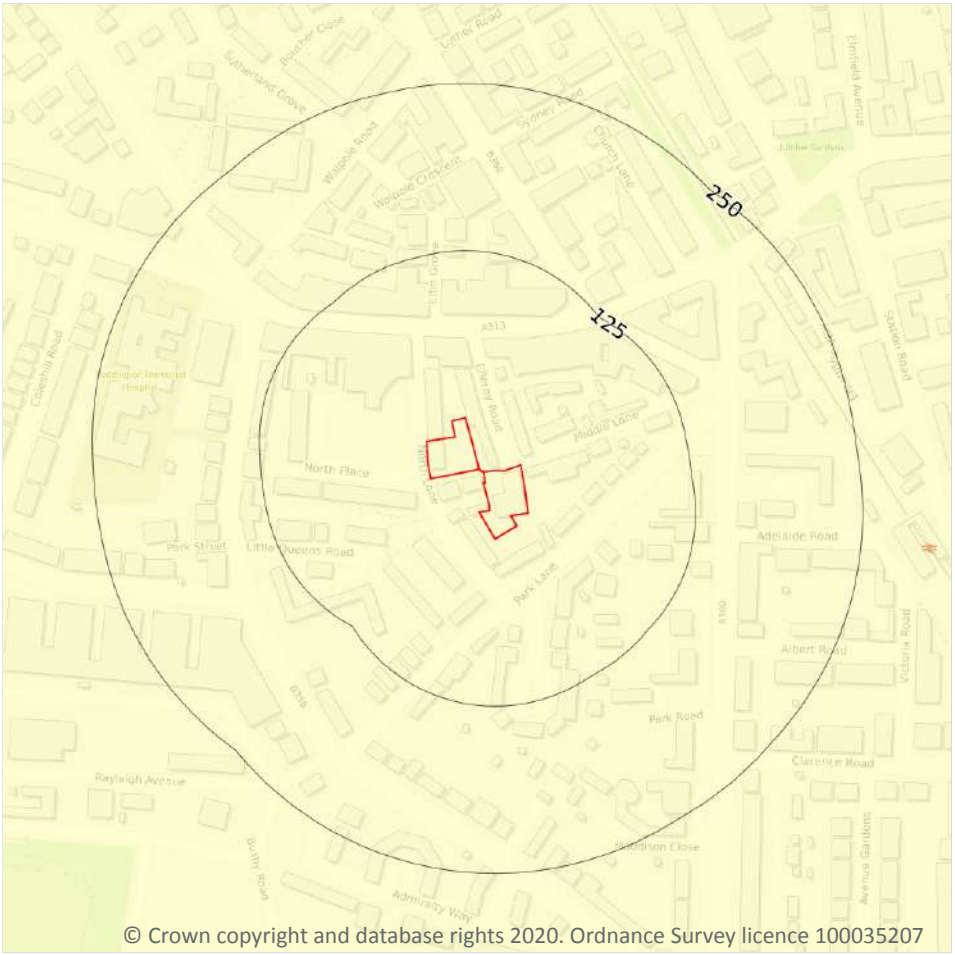
The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on **page 102**

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

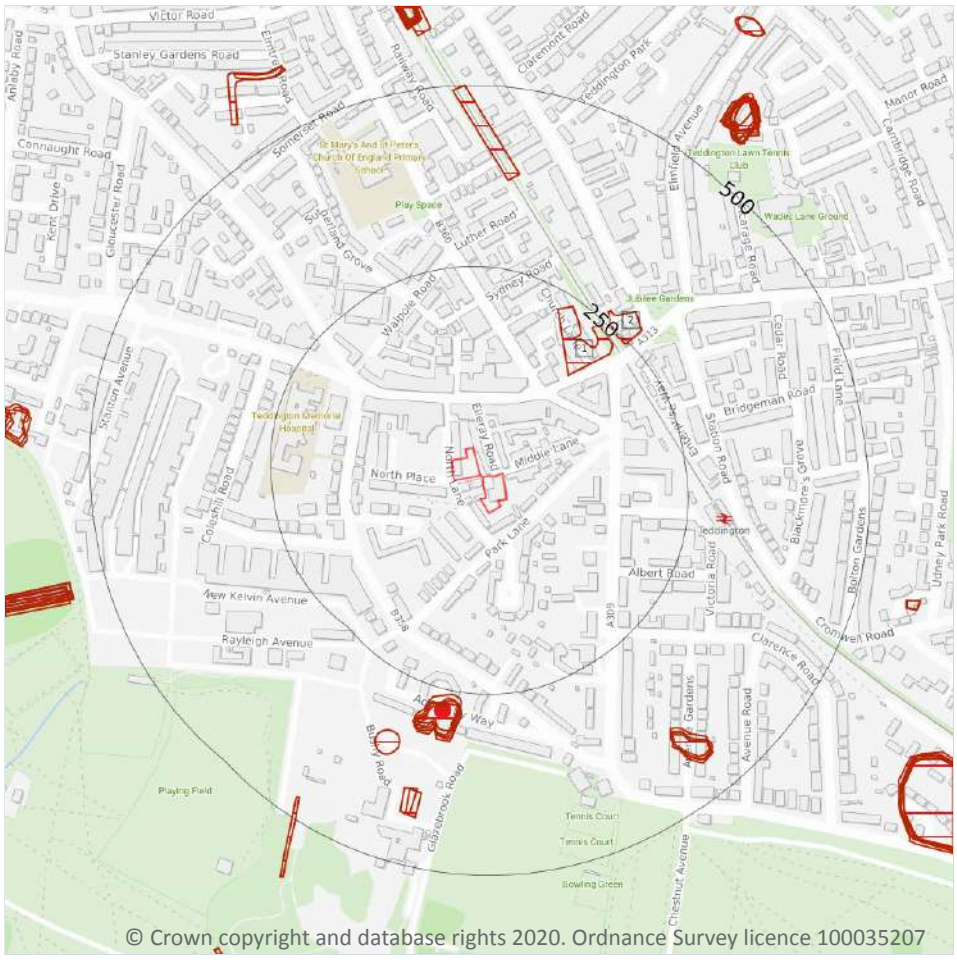
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 103**

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, ground workings and natural cavities



Site Outline

Search buffers in metres (m)

- Natural cavities (Area)
- Natural cavities (Point)
- BritPits
- Surface ground workings
- Underground workings
- Historical Mineral Planning Areas
- Mining Cavities

Non Coal Mining

- Sporadic underground mining of restricted extent possible
- Localised small scale underground mining possible
- Small scale mining possible
- Underground mining known or likely within or in close proximity
- Underground mining known within or in very close proximity

18.1 Natural cavities

Records within 500m	0

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

This data is sourced from Peter Brett Associates (PBA).

18.2 BritPits

Records within 500m	1

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 105**

ID	Location	Details	Description
A	279m S	Name: Bushy House Gravel Pit Address: TEDDINGTON, Surrey Commodity: Sand & Gravel Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Type: Ceased Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m	2

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 105**

ID	Location	Land Use	Year of mapping	Mapping scale
1	163m NE	Pond	1865	1:10560
2	245m NE	Pond	1865	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m	0

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

This is data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m	0

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

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m	0

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).

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m	0

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

This data is sourced from Peter Brett Associates (PBA).

18.8 JPB mining areas

Records on site	0

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

This data is sourced from Johnson Poole and Bloomer.

18.9 Coal mining

Records on site	0

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

This data is sourced from the Coal Authority.

18.10 Brine areas

Records on site	0

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

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

18.11 Gypsum areas

Records on site	0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

Records on site	0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Mining Searches UK.

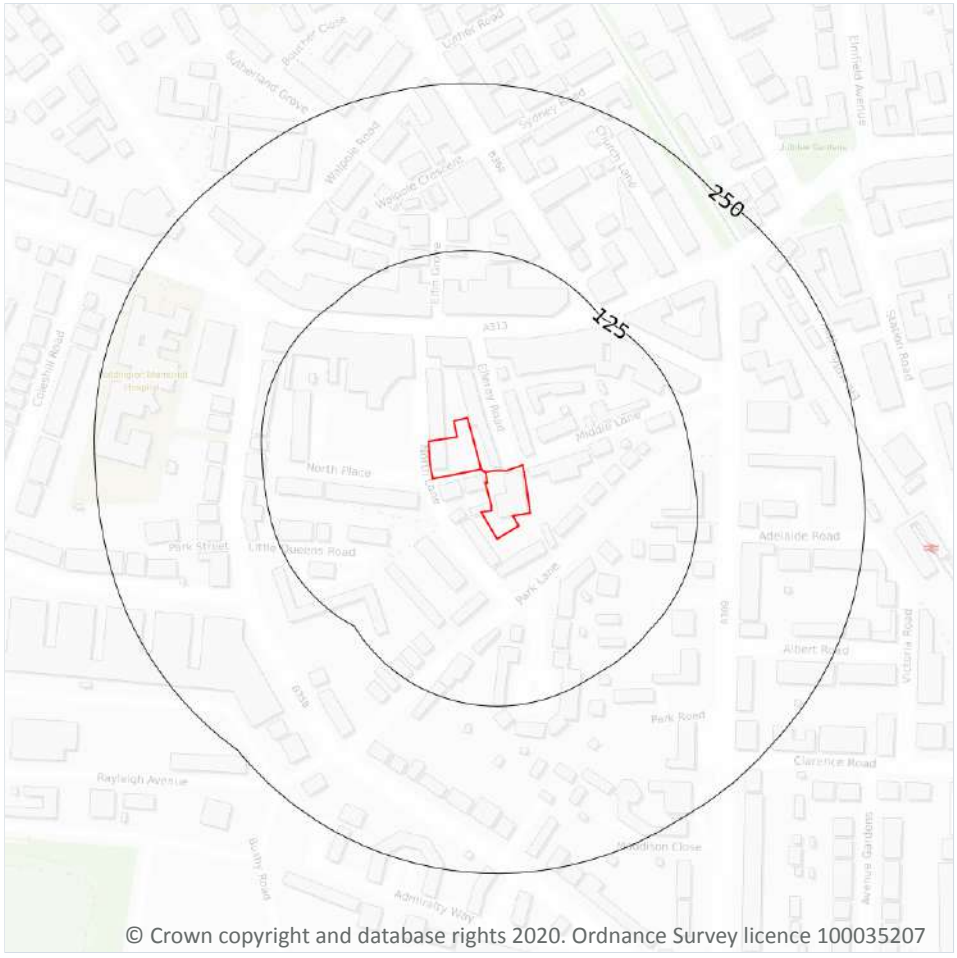
18.13 Clay mining

Records on site	0

Generalised areas that may be affected by kaolin and ball clay extraction.

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

19 Radon



Site Outline

Search buffers in metres (m)

- Greater than 30%
- Between 10% and 30%
- Between 5% and 10%
- Between 3% and 5%
- Between 1% and 3%
- Less than 1%

19.1 Radon

Records on site	1

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

Features are displayed on the Radon map on **page 109**

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

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

20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m	1

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 km^2. 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 km^2; 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	**No data**	**No data**	**100 - 200 mg/kg**	**60 - 120 mg/kg**	**1.8 mg/kg**	**No data**	**No data**

This data is sourced from the British Geological Survey.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m	6

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 km^2).

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	**19**	**3.3**	**560**	**385**	**0.6**	**68**	**61**	**22**	**41**
On site	**19**	**3.3**	**418**	**287**	**0.5**	**68**	**53**	**23**	**24**
On site	**20**	**3.5**	**492**	**338**	**0.5**	**68**	**61**	**24**	**30**
16m NE	19	3.3	449	308	0.6	68	57	23	30
20m SE	19	3.3	570	392	0.6	68	62	22	42
20m S	20	3.5	527	362	0.5	68	65	25	32

This data is sourced from the British Geological Survey.

20.3 BGS Measured Urban Soil Chemistry

Records within 50m	0

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km^2.

This data is sourced from the British Geological Survey.

21 Railway infrastructure and projects

21.1 Underground railways (London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m	0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m	36

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 112**

Location	Land Use	Year of mapping	Mapping scale
208m NE	Railway Sidings	1913	10560
210m NE	Railway Sidings	1973	10000
210m NE	Railway Sidings	1966	10560
210m NE	Railway Sidings	1948	10560
210m NE	Railway Sidings	1938	10560
210m NE	Railway Sidings	1912	10560
211m NE	Railway Sidings	1938	10560
211m NE	Railway Sidings	1913	10560
213m NE	Railway Sidings	1934	10560
214m NE	Railway Sidings	1934	2500
215m NE	Railway Sidings	1864	2500
215m NE	Railway Sidings	1938	10560
215m NE	Railway Sidings	1915	2500
216m NE	Railway Sidings	1898	2500
217m NE	Railway	1936	-
217m NE	Railway	1918	-
217m NE	Railway	1915	-

Location	Land Use	Year of mapping	Mapping scale
217m NE	Railway	1897	-
218m NE	Railway Sidings	1963	1250
218m NE	Railway Sidings	1959	1250
218m NE	Railway Sidings	1973	-
219m NE	Railway	1857	-
220m NE	Railway Sidings	1960	2500
220m NE	Railway Sidings	1933	10560
220m NE	Railway Sidings	1865	10560
224m NE	Railway Sidings	1864	2500
224m NE	Railway Sidings	1913	10560
227m NE	Railway Sidings	1915	2500
227m NE	Railway Sidings	1959	1250
229m NE	Railway Sidings	1963	1250
229m NE	Railway Sidings	1959	1250
229m NE	Railway Sidings	1933	10560
230m NE	Railway Sidings	1960	2500
230m NE	Railway Sidings	1973	-
232m NE	Railway Sidings	1896	2500
235m E	Railway Sidings	1960	2500

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m	0

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

This data is sourced from Groundsure/the Postal Museum.

21.6 Historical railways

Records within 250m	0

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

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m	6

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 112**

Location	Name	Type
223m NE	Kingston Loop Line	rail
225m NE	Not given	Multi Track
225m NE	Not given	Multi Track
227m NE	Kingston Loop Line	rail
232m NE	Not given	Multi Track
232m E	Not given	Multi Track

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 Crossrail 1

Records within 500m	0

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

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m	4

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

Features are displayed on the Railway infrastructure and projects map on **page 112**

Location	Route Type	Name	Under consultation
231m NE	Network Rail Regional Branch	Kingston Loop Line	No
236m NE	Network Rail Regional Branch	Kingston Loop Line	No
300m E	Network Rail Regional Branch	Kingston Loop Line	No
301m E	Network Rail Regional Branch	Kingston Loop Line	No

This data is sourced from publicly available information by Groundsure.

21.10 HS2

Records within 500m	**0**

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

This data is sourced from HS2 ltd.

Data providers

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

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