APPENDIX II

GROUNDSURE REPORT

Groundsure LOCATION INTELLIGENCE

Enviro+Geo Insight

unspecified

Order Details

Date: 22/08/2023

Your ref: EMS_889538_1100951

Our Ref: EMS-889538_1136672

Site Details

Location: 636327 165528

Area: 3.83 ha

Authority: Thanet District Council ↗

Contact us with any questions at:
info@groundsure.com ↗
01273 257 755

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
15 >	1.1 >	Historical industrial land uses >	16	11	14	44	-
19 >	1.2 >	Historical tanks >	0	7	1	4	-
19 >	1.3 >	Historical energy features >	0	0	7	9	-
20 >	1.4 >	Historical petrol stations >	0	0	0	1	-
21 >	1.5 >	Historical garages >	0	0	0	5	-
21	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
22 >	2.1 >	Historical industrial land uses >	21	13	17	60	-
27 >	2.2 >	Historical tanks >	0	11	1	5	-
28 >	2.3 >	Historical energy features >	0	0	13	17	-
29 >	2.4 >	Historical petrol stations >	0	0	0	1	-
29 >	2.5 >	Historical garages >	0	0	0	8	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
31	3.1	Active or recent landfill	0	0	0	0	-
31	3.2	Historical landfill (BGS records)	0	0	0	0	-
32	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
32	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
32	3.5	Historical waste sites	0	0	0	0	-
32	3.6	Licensed waste sites	0	0	0	0	-
32 >	3.7 >	Waste exemptions >	0	0	3	4	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
34 >	4.1 >	Recent industrial land uses >	1	3	9	-	-
35 >	4.2 >	Current or recent petrol stations >	0	1	0	1	-
36	4.3	Electricity cables	0	0	0	0	-
36	4.4	Gas pipelines	0	0	0	0	-
36	4.5	Sites determined as Contaminated Land	0	0	0	0	-

36	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
36	4.7	Regulated explosive sites	0	0	0	0	-
37	4.8	Hazardous substance storage/usage	0	0	0	0	-
37	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
37	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
37 >	4.11 >	Licensed pollutant release (Part A(2)/B) >	1	1	0	2	-
38 >	4.12 >	Radioactive Substance Authorisations >	0	1	0	0	-
38	4.13	Licensed Discharges to controlled waters	0	0	0	0	-
38	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
39	4.15	Pollutant release to public sewer	0	0	0	0	-
39	4.16	List 1 Dangerous Substances	0	0	0	0	-
39	4.17	List 2 Dangerous Substances	0	0	0	0	-
39 >	4.18 >	Pollution Incidents (EA/NRW) >	0	0	0	1	-
40	4.19	Pollution inventory substances	0	0	0	0	-
40	4.20	Pollution inventory waste transfers	0	0	0	0	-
40	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Hydrogeology >	On site	0-50m	50-250m	250-500m	500-2000m
41 >	5.1 >	Superficial aquifer >	Identified (within 500m)				
43 >	5.2 >	Bedrock aquifer >	Identified (within 500m)				
45 >	5.3 >	Groundwater vulnerability >	Identified (within 50m)				
46 >	5.4 >	Groundwater vulnerability- soluble rock risk >	Identified (within 0m)				
46	5.5	Groundwater vulnerability- local information	None (within 0m)				
48 >	5.6 >	Groundwater abstractions >	0	0	0	0	8
50	5.7	Surface water abstractions	0	0	0	0	0
51 >	5.8 >	Potable abstractions >	0	0	0	0	4
52 >	5.9 >	Source Protection Zones >	2	0	1	1	-
52	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	Hydrology >	On site	0-50m	50-250m	250-500m	500-2000m
53	6.1	Water Network (OS MasterMap)	0	0	0	-	-

53	6.2	Surface water features	0	0	0	-	-
54 >	6.3 >	WFD Surface water body catchments >	2	-	-	-	-
54 >	6.4 >	WFD Surface water bodies >	0	0	0	-	-
55 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
56	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
56	7.2	Historical Flood Events	0	0	0	-	-
56	7.3	Flood Defences	0	0	0	-	-
57	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
57	7.5	Flood Storage Areas	0	0	0	-	-
58	7.6	Flood Zone 2	None (within 50m)				
58	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding >					
59 >	8.1 >	Surface water flooding >	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
61 >	9.1 >	Groundwater flooding >	Low (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
62 >	10.1 >	Sites of Special Scientific Interest (SSSI) >	0	0	0	0	2
63 >	10.2 >	Conserved wetland sites (Ramsar sites) >	0	0	0	0	3
64 >	10.3 >	Special Areas of Conservation (SAC) >	0	0	0	0	2
65 >	10.4 >	Special Protection Areas (SPA) >	0	0	0	0	6
66 >	10.5 >	National Nature Reserves (NNR) >	0	0	0	0	2
66	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
66	10.7	Designated Ancient Woodland	0	0	0	0	0
66	10.8	Biosphere Reserves	0	0	0	0	0
67	10.9	Forest Parks	0	0	0	0	0
67	10.10	Marine Conservation Zones	0	0	0	0	0
67	10.11	Green Belt	0	0	0	0	0
67	10.12	Proposed Ramsar sites	0	0	0	0	0

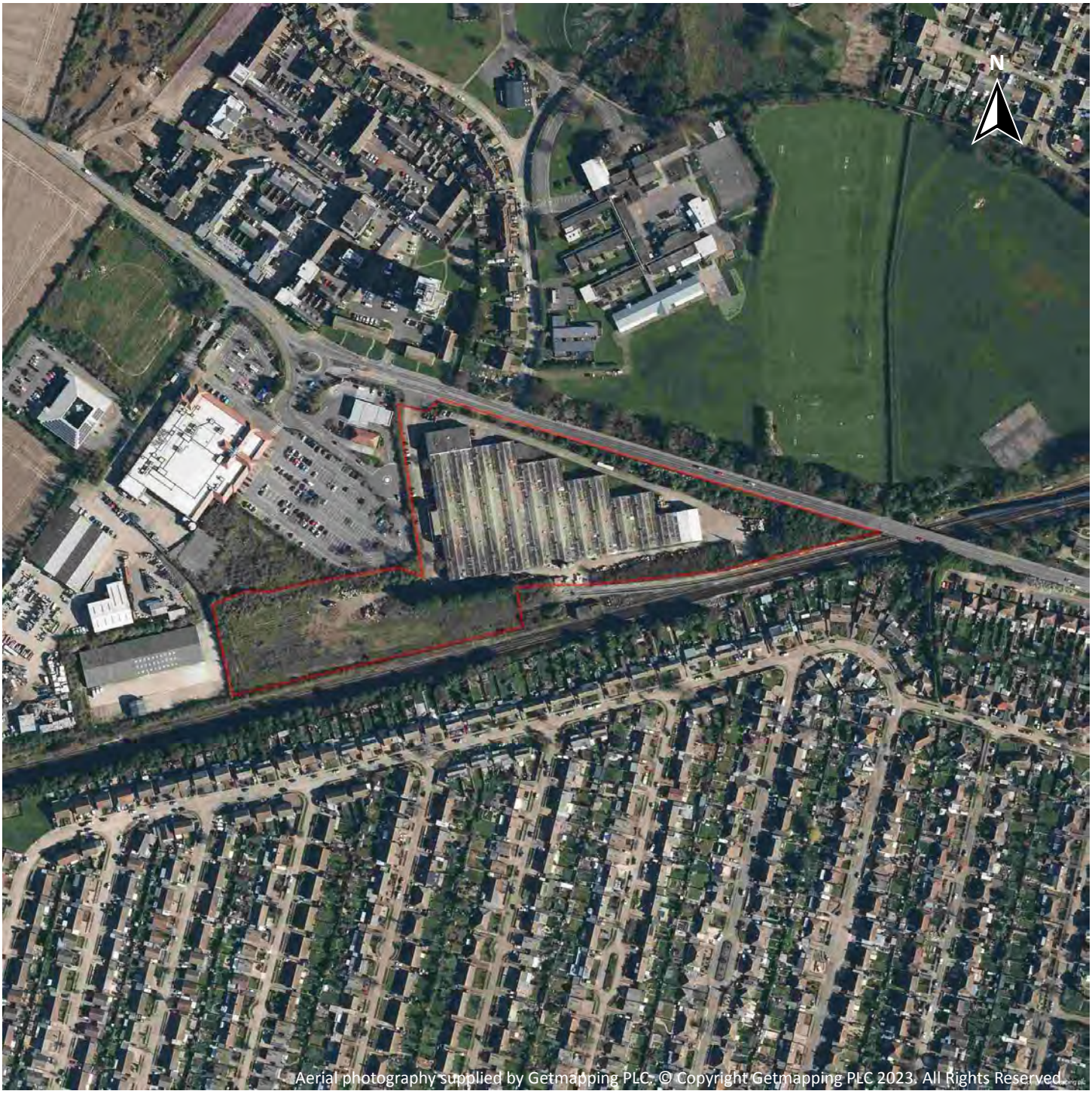
67	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
68	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
68	10.15	Nitrate Sensitive Areas	0	0	0	0	0
68 >	10.16 >	Nitrate Vulnerable Zones >	1	0	0	1	0
69 >	10.17 >	SSSI Impact Risk Zones >	1	-	-	-	-
70 >	10.18 >	SSSI Units >	0	0	0	0	5
Page	Section	Visual and cultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
73	11.1	World Heritage Sites	0	0	0	-	-
74	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
74	11.3	National Parks	0	0	0	-	-
74	11.4	Listed Buildings	0	0	0	-	-
74 >	11.5 >	Conservation Areas >	1	0	0	-	-
75	11.6	Scheduled Ancient Monuments	0	0	0	-	-
75	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
76 >	12.1 >	Agricultural Land Classification >	Grade 3a (within 250m)				
77	12.2	Open Access Land	0	0	0	-	-
77	12.3	Tree Felling Licences	0	0	0	-	-
78	12.4	Environmental Stewardship Schemes	0	0	0	-	-
78	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
79	13.1	Priority Habitat Inventory	0	0	0	-	-
79	13.2	Habitat Networks	0	0	0	-	-
80 >	13.3 >	Open Mosaic Habitat >	1	0	1	-	-
80	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
81 >	14.1 >	10k Availability >	Identified (within 500m)				
82	14.2	Artificial and made ground (10k)	0	0	0	0	-
83	14.3	Superficial geology (10k)	0	0	0	0	-

83	14.4	Landslip (10k)	0	0	0	0	-
84	14.5	Bedrock geology (10k)	0	0	0	0	-
84	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
85 >	15.1 >	**50k Availability >**	Identified (within 500m)				
86	15.2	Artificial and made ground (50k)	0	0	0	0	-
86	15.3	Artificial ground permeability (50k)	0	0	-	-	-
87 >	15.4 >	**Superficial geology (50k) >**	1	1	0	1	-
88 >	15.5 >	**Superficial permeability (50k) >**	Identified (within 50m)				
88	15.6	Landslip (50k)	0	0	0	0	-
88	15.7	Landslip permeability (50k)	None (within 50m)				
89 >	15.8 >	**Bedrock geology (50k) >**	1	0	1	1	-
90 >	15.9 >	**Bedrock permeability (50k) >**	Identified (within 50m)				
90	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
91 >	16.1 >	**BGS Boreholes >**	0	1	2	-	-
Page	Section	**Natural ground subsidence >**					
93 >	17.1 >	**Shrink swell clays >**	Low (within 50m)				
94 >	17.2 >	**Running sands >**	Negligible (within 50m)				
95 >	17.3 >	**Compressible deposits >**	Negligible (within 50m)				
96 >	17.4 >	**Collapsible deposits >**	Moderate (within 50m)				
97 >	17.5 >	**Landslides >**	Very low (within 50m)				
99 >	17.6 >	**Ground dissolution of soluble rocks >**	High (within 50m)				
Page	Section	**Mining and ground workings >**	On site	0-50m	50-250m	250-500m	500-2000m
101 >	18.1 >	**BritPits >**	0	0	0	1	-
102 >	18.2 >	**Surface ground workings >**	11	6	15	-	-
103	18.3	Underground workings	0	0	0	0	0
103	18.4	Underground mining extents	0	0	0	0	-
104 >	18.5 >	**Historical Mineral Planning Areas >**	1	0	0	1	-

104 >	18.6 >	Non-coal mining >	2	0	1	2	8
106	18.7	JPB mining areas	None (within 0m)				
106	18.8	The Coal Authority non-coal mining	0	0	0	0	-
106 >	18.9 >	Researched mining >	0	0	0	2	-
107	18.10	Mining record office plans	0	0	0	0	-
107	18.11	BGS mine plans	0	0	0	0	-
107	18.12	Coal mining	None (within 0m)				
107	18.13	Brine areas	None (within 0m)				
107	18.14	Gypsum areas	None (within 0m)				
108	18.15	Tin mining	None (within 0m)				
108	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes >	On site	0-50m	50-250m	250-500m	500-2000m
109	19.1	Natural cavities	0	0	0	0	-
110 >	19.2 >	Mining cavities >	0	0	0	0	5
110	19.3	Reported recent incidents	0	0	0	0	-
110	19.4	Historical incidents	0	0	0	0	-
111	19.5	National karst database	0	0	0	0	-
Page	Section	Radon >					
112 >	20.1 >	Radon >	Less than 1% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
114 >	21.1 >	BGS Estimated Background Soil Chemistry >	7	4	-	-	-
114	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
115	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects >	On site	0-50m	50-250m	250-500m	500-2000m
116	22.1	Underground railways (London)	0	0	0	-	-
116	22.2	Underground railways (Non-London)	0	0	0	-	-
117	22.3	Railway tunnels	0	0	0	-	-
117 >	22.4 >	Historical railway and tunnel features >	5	13	4	-	-
118	22.5	Royal Mail tunnels	0	0	0	-	-

118	22.6	Historical railways	0	0	0	-	-
118 >	**22.7 >**	**Railways >**	0	10	3	-	-
119	22.8	Crossrail 1	0	0	0	0	-
119	22.9	Crossrail 2	0	0	0	0	-
119	22.10	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 07/04/2021

Site Area: 3.83ha

Recent site history - 2018 aerial photograph

Capture Date: 05/05/2018

Site Area: 3.83ha

Recent site history - 2012 aerial photograph

Capture Date: 25/05/2012

Site Area: 3.83ha

Recent site history - 2008 aerial photograph

Capture Date: 09/10/2008

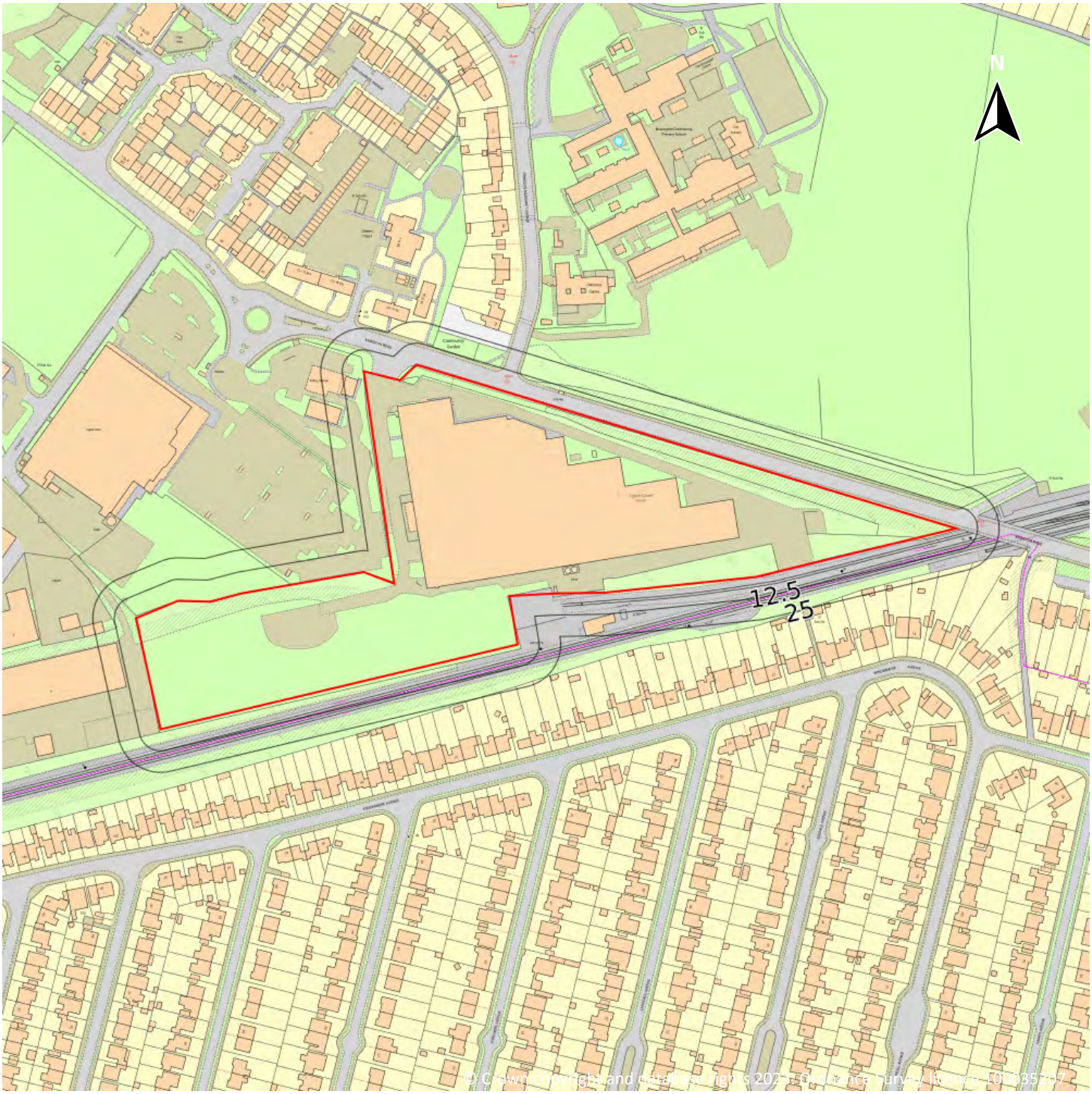
Site Area: 3.83ha

Recent site history - 1999 aerial photograph

Capture Date: 29/08/1999

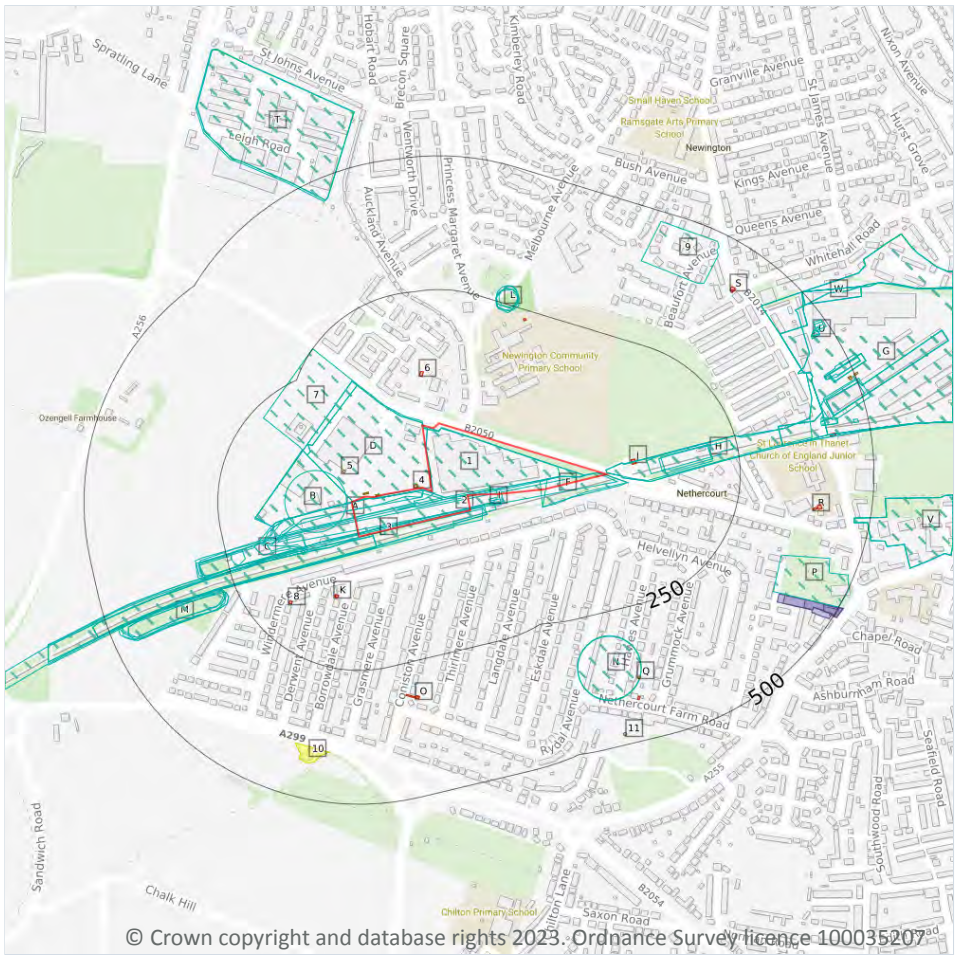
Site Area: 3.83ha

OS MasterMap site plan



Site Area: 3.83ha

1 Past land use



1.1 Historical industrial land uses

Records within 500m	85

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

Features are displayed on the Past land use map on **page 15 >**

ID	Location	Land use	Dates present	Group ID
1	**On site**	**Unspecified Factory**	**1994**	**2348941**

ID	Location	Land use	Dates present	Group ID
2	**On site**	**Railway Sidings**	**1971**	**2352773**
A	**On site**	**Unspecified Pit**	**1962**	**2346107**
A	**On site**	**Unspecified Heap**	**1872**	**2351394**
A	**On site**	**Ground Workings**	**1905 - 1931**	**2361731**
B	**On site**	**Unspecified Factory**	**1994**	**2348936**
C	**On site**	**Unspecified Ground Workings**	**1971**	**2352589**
C	**On site**	**Unspecified Ground Workings**	**1977**	**2355081**
D	**On site**	**Unspecified Depot**	**1977**	**2353393**
D	**On site**	**Unspecified Depot**	**1971**	**2358513**
D	**On site**	**Unspecified Depot**	**1994**	**2365460**
E	**On site**	**Cuttings**	**1948**	**2359646**
E	**On site**	**Cuttings**	**1905 - 1931**	**2360632**
E	**On site**	**Cuttings**	**1872 - 1897**	**2361509**
F	**On site**	**Railway Sidings**	**1977**	**2363880**
F	**On site**	**Railway Sidings**	**1994**	**2363952**
3	1m SW	Railway Building	1938	2349644
E	1m SW	Cuttings	1938	2361466
G	3m E	Railway Sidings	1931 - 1938	2354584
G	3m E	Railway Sidings	1948	2357540
H	3m E	Railway Sidings	1931	2361844
E	5m SW	Cuttings	1971	2354592
E	5m SW	Cuttings	1962	2354817
E	5m SW	Cuttings	1977 - 1994	2359959
I	5m SE	Railway Building	1994	2352693
I	9m SE	Railway Building	1977	2359817
B	9m W	Site of Cemetery	1897	2351517
H	79m E	Cuttings	1872	2365439
E	100m SW	Unspecified Ground Workings	1994	2362734

ID	Location	Land use	Dates present	Group ID
H	102m E	Cuttings	1897 - 1905	2363764
E	106m SW	Unspecified Ground Workings	1962	2360116
H	106m E	Cuttings	1905	2354191
C	114m W	Unspecified Ground Workings	1994	2355761
7	121m W	Unspecified Depot	1994	2364932
E	217m W	Unspecified Ground Workings	1938	2359624
L	235m N	Unspecified Quarry	1938	2346784
L	239m N	Old Chalk Pit	1897	2350258
L	239m N	Unspecified Pit	1948	2352444
L	239m N	Unspecified Pit	1905 - 1931	2362759
L	244m N	Quarry	1931	2351607
L	245m N	Unspecified Pit	1872	2363280
M	269m SW	Unspecified Heap	1962 - 1971	2358224
M	269m SW	Unspecified Heap	1977 - 1994	2364292
M	271m SW	Unspecified Heap	1872	2365000
M	272m SW	Unspecified Heap	1897	2359991
M	274m SW	Unspecified Heap	1938	2354498
M	274m SW	Unspecified Heap	1905 - 1931	2362865
N	293m SE	Burial Ground	1971	2352903
N	294m SE	Burial Ground	1977	2360853
G	333m E	Railway Sidings	1962 - 1971	2352219
G	333m E	Railway Sidings	1994	2360122
G	333m E	Railway Sidings	1977	2360591
P	360m E	Grave Yard	1872	2346636
9	395m NE	Nursery	1962	2348512
G	412m E	Railway Station	1897 - 1905	2357612
G	413m E	Goods Yard	1977	2357451
G	413m E	Goods Yard	1994	2359522

ID	Location	Land use	Dates present	Group ID
G	413m E	Goods Yard	1962 - 1971	2361653
G	413m E	Railway Station	1872	2355158
G	415m E	Railway Station	1905	2355782
G	420m E	Railway Building	1931 - 1948	2355402
G	429m E	Railway Building	1962	2360210
G	433m E	Railway Building	1994	2355097
G	433m E	Railway Building	1971	2358056
G	433m E	Railway Building	1977	2359847
G	446m E	Railway Building	1938	2362316
G	447m E	Railway Building	1948 - 1971	2362099
G	447m E	Railway Building	1931	2362846
T	457m NW	Unspecified Works	1962 - 1971	2364900
G	457m E	Railway Building	1994	2355177
G	457m E	Railway Building	1977	2359932
T	459m NW	Industrial Estate	1994	2349442
T	459m NW	Unspecified Factories	1977	2351543
U	460m E	Railway Building	1938	2361656
U	462m E	Railway Building	1931	2356530
U	462m E	Railway Building	1948	2364259
V	470m E	Nurseries	1962 - 1971	2357726
V	470m E	Nursery	1977	2361208
V	470m E	Nursery	1994	2364638
G	472m E	Railway Building	1897	2349656
U	474m NE	Railway Building	1977	2354713
U	477m NE	Railway Building	1994	2357631
W	488m NE	Railway Building	1971	2355852
W	488m NE	Railway Building	1977	2358559
W	488m NE	Railway Building	1994	2360855

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	12

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

Features are displayed on the Past land use map on **page 15 >**

ID	Location	Land use	Dates present	Group ID
A	0m W	Unspecified Tank	1969 - 1982	425306
A	1m W	Unspecified Tank	1993	423721
A	2m W	Unspecified Tank	1966	425318
4	2m W	Unspecified Tank	1966 - 1969	425916
A	4m W	Tanks	1969	425670
A	4m W	Tanks	1966	425503
A	5m W	Tanks	1969	423409
5	56m W	Unspecified Tank	1999	422659
Q	381m SE	Unspecified Tank	1955	425512
11	477m SE	Unspecified Tank	1907	422684
G	486m E	Unspecified Tank	1955	422658
G	499m E	Unspecified Tank	1955	422657

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	16

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 15 >**

ID	Location	Land use	Dates present	Group ID
J	51m E	Electricity Substation	1955 - 1981	301437
J	52m E	Electricity Substation	1955 - 1969	302153
6	91m N	Electricity Substation	1999	300624
K	116m SW	Electricity Substation	1993	300897
K	117m SW	Electricity Substation	1976 - 1982	302627
8	174m SW	Electricity Substation	1982 - 1993	301397
L	230m N	Electricity Substation	1955	302189
O	307m S	Electricity Substation	1993	302022
O	314m S	Electricity Substation	1969	302814
O	314m S	Electricity Substation	1969 - 1982	302244
R	391m E	Electricity Substation	1955	301631
R	399m E	Electricity Substation	1968 - 1969	302408
S	412m NE	Electricity Substation	1981	301183
S	414m NE	Electricity Substation	1969	301959
Q	417m SE	Electricity Substation	1968 - 1969	301689
G	425m E	Electricity Substation	1969 - 1995	300893

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m	**1**

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

Features are displayed on the Past land use map on **page 15 >**

ID	Location	Land use	Dates present	Group ID
10	403m SW	Filling Station	1976	4623

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m	5

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

Features are displayed on the Past land use map on **page 15 >**

ID	Location	Land use	Dates present	Group ID
P	392m E	Garage	1969	89051
P	403m E	Garage	1955 - 1968	89382
P	439m E	Garage	1955	89432
P	474m E	Garage	1969	89169
P	474m E	Garage	1987	88786

This data is sourced from Ordnance Survey / Groundsure.

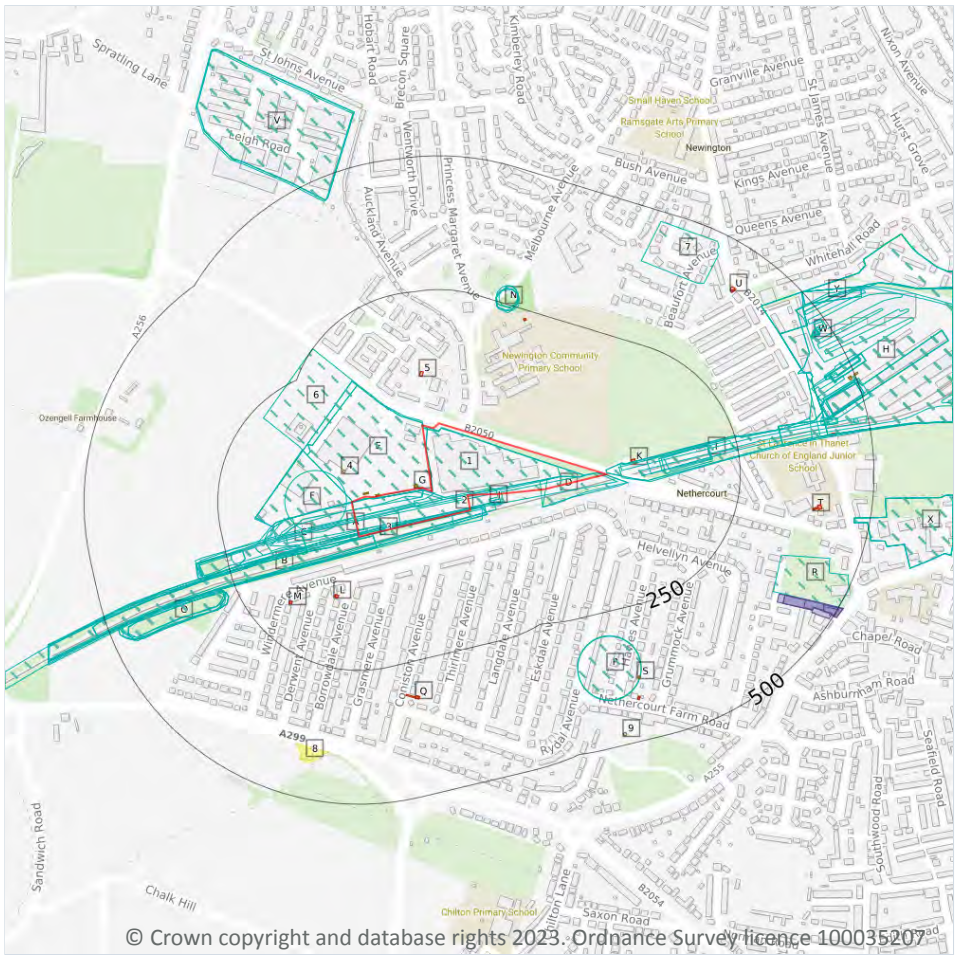
1.6 Historical military land

Records within 500m	0

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

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

2 Past land use - un-grouped



2.1 Historical industrial land uses

Records within 500m	111

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 22 >**

ID	Location	Land Use	Date	Group ID
1	**On site**	**Unspecified Factory**	**1994**	**2348941**
2	**On site**	**Railway Sidings**	**1971**	**2352773**
A	**On site**	**Unspecified Heap**	**1872**	**2351394**

ID	Location	Land Use	Date	Group ID
A	**On site**	**Ground Workings**	**1905**	**2361731**
A	**On site**	**Unspecified Pit**	**1962**	**2346107**
B	**On site**	**Cuttings**	**1897**	**2361509**
B	**On site**	**Cuttings**	**1931**	**2360632**
B	**On site**	**Cuttings**	**1905**	**2360632**
B	**On site**	**Cuttings**	**1948**	**2359646**
B	**On site**	**Cuttings**	**1931**	**2360632**
B	**On site**	**Cuttings**	**1905**	**2360632**
B	**On site**	**Cuttings**	**1872**	**2361509**
C	**On site**	**Ground Workings**	**1931**	**2361731**
C	**On site**	**Unspecified Ground Workings**	**1971**	**2352589**
C	**On site**	**Unspecified Ground Workings**	**1977**	**2355081**
D	**On site**	**Railway Sidings**	**1994**	**2363952**
D	**On site**	**Railway Sidings**	**1977**	**2363880**
E	**On site**	**Unspecified Depot**	**1994**	**2365460**
E	**On site**	**Unspecified Depot**	**1971**	**2358513**
E	**On site**	**Unspecified Depot**	**1977**	**2353393**
F	**On site**	**Unspecified Factory**	**1994**	**2348936**
3	1m SW	Railway Building	1938	2349644
B	1m SW	Cuttings	1938	2361466
H	3m E	Railway Sidings	1948	2357540
I	3m E	Railway Sidings	1931	2361844
B	5m SW	Cuttings	1962	2354817
B	5m SW	Cuttings	1994	2359959
B	5m SW	Cuttings	1971	2354592
B	5m SW	Cuttings	1977	2359959
J	5m SE	Railway Building	1994	2352693
J	9m SE	Railway Building	1977	2359817

ID	Location	Land Use	Date	Group ID
F	9m W	Site of Cemetery	1897	2351517
H	26m E	Railway Sidings	1938	2354584
H	30m E	Railway Sidings	1931	2354584
I	79m E	Cuttings	1872	2365439
B	100m SW	Unspecified Ground Workings	1994	2362734
I	102m E	Cuttings	1897	2363764
B	106m SW	Unspecified Ground Workings	1962	2360116
I	106m E	Cuttings	1905	2354191
I	111m E	Cuttings	1905	2363764
C	114m W	Unspecified Ground Workings	1994	2355761
6	121m W	Unspecified Depot	1994	2364932
B	217m W	Unspecified Ground Workings	1938	2359624
B	217m W	Unspecified Ground Workings	1938	2359624
N	235m N	Unspecified Quarry	1938	2346784
N	239m N	Unspecified Pit	1948	2352444
N	239m N	Unspecified Pit	1931	2362759
N	239m N	Unspecified Pit	1905	2362759
N	239m N	Old Chalk Pit	1897	2350258
N	244m N	Quarry	1931	2351607
N	245m N	Unspecified Pit	1872	2363280
O	269m SW	Unspecified Heap	1962	2358224
O	269m SW	Unspecified Heap	1994	2364292
O	269m SW	Unspecified Heap	1971	2358224
O	269m SW	Unspecified Heap	1977	2364292
O	271m SW	Unspecified Heap	1872	2365000
O	272m SW	Unspecified Heap	1897	2359991
O	274m SW	Unspecified Heap	1938	2354498
O	274m SW	Unspecified Heap	1938	2354498

ID	Location	Land Use	Date	Group ID
O	274m SW	Unspecified Heap	1931	2362865
O	274m SW	Unspecified Heap	1905	2362865
P	293m SE	Burial Ground	1971	2352903
P	294m SE	Burial Ground	1977	2360853
H	333m E	Railway Sidings	1962	2352219
H	333m E	Railway Sidings	1994	2360122
H	333m E	Railway Sidings	1971	2352219
H	333m E	Railway Sidings	1977	2360591
R	360m E	Grave Yard	1872	2346636
7	395m NE	Nursery	1962	2348512
H	404m E	Railway Sidings	1931	2354584
H	412m E	Railway Station	1897	2357612
H	413m E	Goods Yard	1962	2361653
H	413m E	Goods Yard	1994	2359522
H	413m E	Goods Yard	1971	2361653
H	413m E	Goods Yard	1977	2357451
H	413m E	Railway Station	1872	2355158
H	415m E	Railway Station	1905	2355782
H	418m E	Railway Station	1905	2357612
H	420m E	Railway Building	1938	2355402
H	421m E	Railway Building	1948	2355402
H	421m E	Railway Building	1931	2355402
H	423m E	Railway Building	1931	2355402
H	429m E	Railway Building	1962	2360210
H	433m E	Railway Building	1994	2355097
H	433m E	Railway Building	1971	2358056
H	433m E	Railway Building	1977	2359847
H	446m E	Railway Building	1938	2362316

ID	Location	Land Use	Date	Group ID
H	447m E	Railway Building	1948	2362099
H	447m E	Railway Building	1931	2362846
V	457m NW	Unspecified Works	1962	2364900
H	457m E	Railway Building	1962	2362099
H	457m E	Railway Building	1994	2355177
H	457m E	Railway Building	1971	2362099
H	457m E	Railway Building	1977	2359932
V	459m NW	Industrial Estate	1994	2349442
V	459m NW	Unspecified Works	1971	2364900
V	459m NW	Unspecified Factories	1977	2351543
W	460m E	Railway Building	1938	2361656
W	462m E	Railway Building	1948	2364259
W	462m E	Railway Building	1931	2356530
W	466m E	Railway Building	1931	2356530
X	470m E	Nurseries	1962	2357726
X	470m E	Nursery	1994	2364638
X	470m E	Nurseries	1971	2357726
X	470m E	Nursery	1977	2361208
H	472m E	Railway Building	1897	2349656
W	474m NE	Railway Building	1977	2354713
W	477m NE	Railway Building	1994	2357631
Y	488m NE	Railway Building	1994	2360855
Y	488m NE	Railway Building	1971	2355852
Y	488m NE	Railway Building	1977	2358559

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 22 >**

ID	Location	Land Use	Date	Group ID
A	0m W	Unspecified Tank	1976	425306
A	0m W	Unspecified Tank	1982	425306
A	0m W	Unspecified Tank	1969	425306
A	1m W	Unspecified Tank	1969	425306
A	1m W	Unspecified Tank	1993	423721
A	2m W	Unspecified Tank	1966	425318
G	2m W	Unspecified Tank	1966	425916
G	3m W	Unspecified Tank	1969	425916
A	4m W	Tanks	1969	425670
A	4m W	Tanks	1966	425503
A	5m W	Tanks	1969	423409
4	56m W	Unspecified Tank	1999	422659
S	381m SE	Unspecified Tank	1955	425512
S	381m SE	Unspecified Tank	1955	425512
9	477m SE	Unspecified Tank	1907	422684
H	486m E	Unspecified Tank	1955	422658
H	499m E	Unspecified Tank	1955	422657

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	30

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 22 >**

ID	Location	Land Use	Date	Group ID
K	51m E	Electricity Substation	1981	301437
K	52m E	Electricity Substation	1955	301437
K	52m E	Electricity Substation	1969	301437
K	52m E	Electricity Substation	1969	302153
K	52m E	Electricity Substation	1955	302153
5	91m N	Electricity Substation	1999	300624
L	116m SW	Electricity Substation	1993	300897
L	117m SW	Electricity Substation	1976	302627
L	117m SW	Electricity Substation	1982	302627
M	174m SW	Electricity Substation	1993	301397
M	174m SW	Electricity Substation	1982	301397
N	230m N	Electricity Substation	1955	302189
N	230m N	Electricity Substation	1955	302189
Q	307m S	Electricity Substation	1993	302022
Q	314m S	Electricity Substation	1969	302814
Q	314m S	Electricity Substation	1976	302244
Q	314m S	Electricity Substation	1982	302244
Q	314m S	Electricity Substation	1969	302244
T	391m E	Electricity Substation	1955	301631
T	392m E	Electricity Substation	1955	301631
T	399m E	Electricity Substation	1968	302408
T	399m E	Electricity Substation	1969	302408
U	412m NE	Electricity Substation	1981	301183

ID	Location	Land Use	Date	Group ID
U	414m NE	Electricity Substation	1969	301959
U	414m NE	Electricity Substation	1969	301959
S	417m SE	Electricity Substation	1969	301689
S	417m SE	Electricity Substation	1968	301689
H	425m E	Electricity Substation	1983	300893
H	425m E	Electricity Substation	1995	300893
H	426m E	Electricity Substation	1969	300893

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m	**1**

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. 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 22 >**

ID	Location	Land Use	Date	Group ID
8	403m SW	Filling Station	1976	4623

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m	**8**

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'.

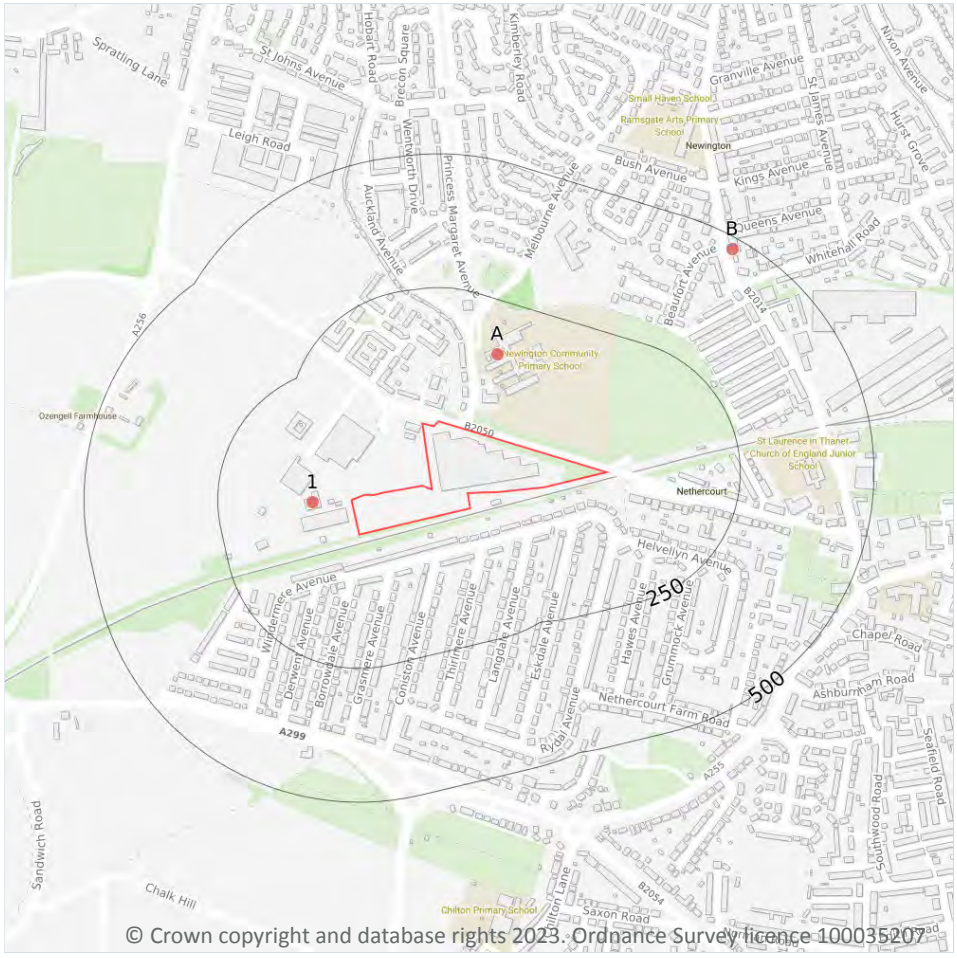
Features are displayed on the Past land use - un-grouped map on **page 22 >**

ID	Location	Land Use	Date	Group ID
R	392m E	Garage	1969	89051
R	403m E	Garage	1955	89382
R	403m E	Garage	1968	89382

ID	Location	Land Use	Date	Group ID
R	439m E	Garage	1955	89432
R	474m E	Garage	1955	89432
R	474m E	Garage	1969	89169
R	474m E	Garage	1955	89432
R	474m E	Garage	1987	88786

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



Site Outline

Search buffers in metres (m)

Waste exemptions

3.1 Active or recent landfill

Records within 500m	0

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

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

3.2 Historical landfill (BGS records)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m	0

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

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

3.5 Historical waste sites

Records within 500m	0

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

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

3.6 Licensed waste sites

Records within 500m	0

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

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

3.7 Waste exemptions

Records within 500m	7

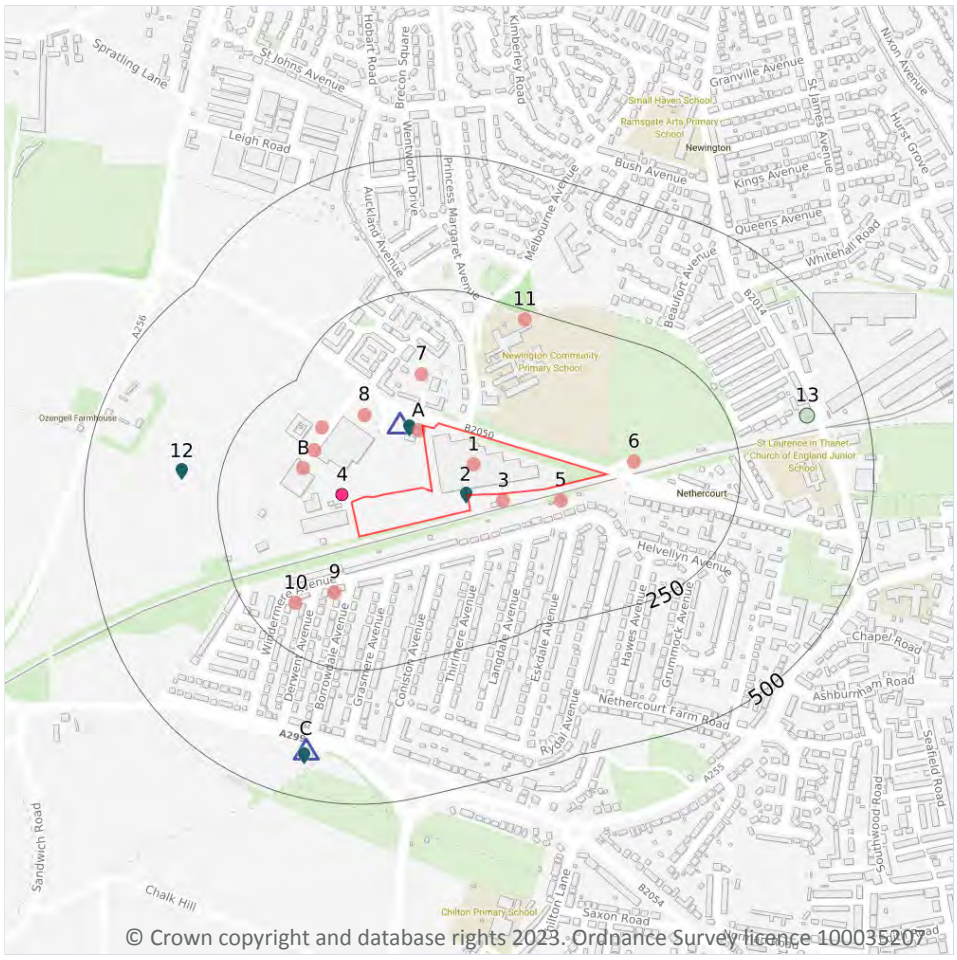
Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on **page 31 >**

ID	Location	Site	Reference	Category	Sub-Category	Description
1	74m W	UNIT 4, OLD TIMBER YARD INDUSTRIAL ESTATE, MANSTON ROAD, RAMSGATE, CT12 6HJ	WEX274485	Storing waste exemption	Not on a farm	Storage of waste in secure containers
A	152m N	55 Princess Margaret Ave Ramsgate CT12 6HX	EPR/EF0434JN /A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
A	152m N	55 Princess Margaret Ave Ramsgate CT12 6HX	EPR/EF0434JN /A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste in construction
B	478m NE	47-49, NEWINGTON ROAD, RAMSGATE, CT12 6EW	WEX144742	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
B	478m NE	47-49, NEWINGTON ROAD, RAMSGATE, CT12 6EW	WEX144742	Storing waste exemption	Not on a farm	Storage of waste in secure containers
B	478m NE	47-49, NEWINGTON ROAD, RAMSGATE, CT12 6EW	WEX284558	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
B	478m NE	47-49, NEWINGTON ROAD, RAMSGATE, CT12 6EW	WEX284558	Storing waste exemption	Not on a farm	Storage of waste in secure containers

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

4 Current industrial land use



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Site Outline

Search buffers in metres (m)

- Recent industrial land uses
- Current or recent petrol stations
- Licensed pollutant release (Part A(2)/B)
- Radioactive Substance Authorisations
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m	13

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 34 >**

ID	Location	Company	Address	Activity	Category
1	**On site**	**Flambeau**	**-, Manston Road, Ramsgate, Kent, CT12 6HW**	**Rubber, Silicones and Plastics**	**Industrial Products**
A	9m NW	Tesco Petrol Station	Manston Road, -, Ramsgate, Kent, CT12 6NT	Petrol and Fuel Stations	Road and Rail
3	13m SE	Electricity Sub Station	Kent, CT12	Electrical Features	Infrastructure and Facilities

ID	Location	Company	Address	Activity	Category
5	27m E	Electricity Sub Station	Kent, CT11	Electrical Features	Infrastructure and Facilities
6	56m E	Electricity Sub Station	Kent, CT12	Electrical Features	Infrastructure and Facilities
7	96m N	Electricity Sub Station	Kent, CT12	Electrical Features	Infrastructure and Facilities
B	110m W	Industrial Estate	Kent, CT12	Business Parks and Industrial Estates	Industrial Features
8	111m NW	Waves Hand Car Wash Ramsgate Manston	Manston Road, Car Park of Tesco Store, Ramsgate, Kent, CT12 6NT	Vehicle Cleaning Services	Personal, Consumer and Other Services
9	114m SW	Electricity Sub Station	Kent, CT11	Electrical Features	Infrastructure and Facilities
B	120m W	Electricity Sub Station	Kent, CT12	Electrical Features	Infrastructure and Facilities
B	150m W	Electricity Sub Station	Kent, CT12	Electrical Features	Infrastructure and Facilities
10	172m SW	Electricity Sub Station	Kent, CT11	Electrical Features	Infrastructure and Facilities
11	233m N	Electricity Sub Station	Kent, CT12	Electrical Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m **2**

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on **page 34 >**

ID	Location	Company	Address	LPG	Status
A	44m NW	TESCO	Manston Road, Ramsgate, Kent, CT12 6NT	No	Open
C	409m SW	SHELL	Canterbury Road East, Ramsgate, Kent, CT11 0LB	No	Open

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0

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

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m	0

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

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m	0

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m	0

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

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m	0

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

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m	0

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

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

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

Records within 500m	4

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 34 >**

ID	Location	Address	Details	
2	**On site**	**Kent Timber Rafters, Manston Rd, Ramsgate, CT12 6HP**	**Process: Combustion & Incineration** **Status: Historical Permit** **Permit Type: Part B**	**Enforcement: No Enforcement Notified.** **Date of enforcement: No Enforcement Notified.** **Comment: No Enforcement Notified.**
A	25m NW	Tesco Manston, Manston Road, Ramsgate, Kent, CT12 6NT	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified. Date of enforcement: No Enforcement Notified. Comment: No Enforcement Notified.

ID	Location	Address	Details	
12	322m W	Kerrs Garage, Northdown Rd, Cliftonville, CT9 2RN	Process: Petrol Vapour Recovery Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified. Date of enforcement: No Enforcement Notified. Comment: No Enforcement Notified.
C	423m SW	Shell Royal Oak, Canterbury Road East, Ramsgate, Kent, CT11 0LB	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified. Date of enforcement: No Enforcement Notified. Comment: No Enforcement Notified.

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m	**1**

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 34 >**

ID	Location	Address	Details	
4	22m W	Air Atlanta Uk Ltd, The Warehouse, The Old Woodyard, Manston Road, Ramsgate, Kent, CT12 6HN	Operator: Air Atlanta Uk Ltd Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: BH8748 Date of approval: 17/01/2001	Effective from: 08/02/2001 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	0

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m	0

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

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

4.17 List 2 Dangerous Substances

Records within 500m	0

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m	1

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

Features are displayed on the Current industrial land use map on **page 34 >**

ID	Location	Details	
13	390m E	Incident Date: 16/01/2003 Incident Identification: 131400 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Other General Biodegradable Material or Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)

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

4.19 Pollution inventory substances

Records within 500m	0

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

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

4.20 Pollution inventory waste transfers

Records within 500m	0

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

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

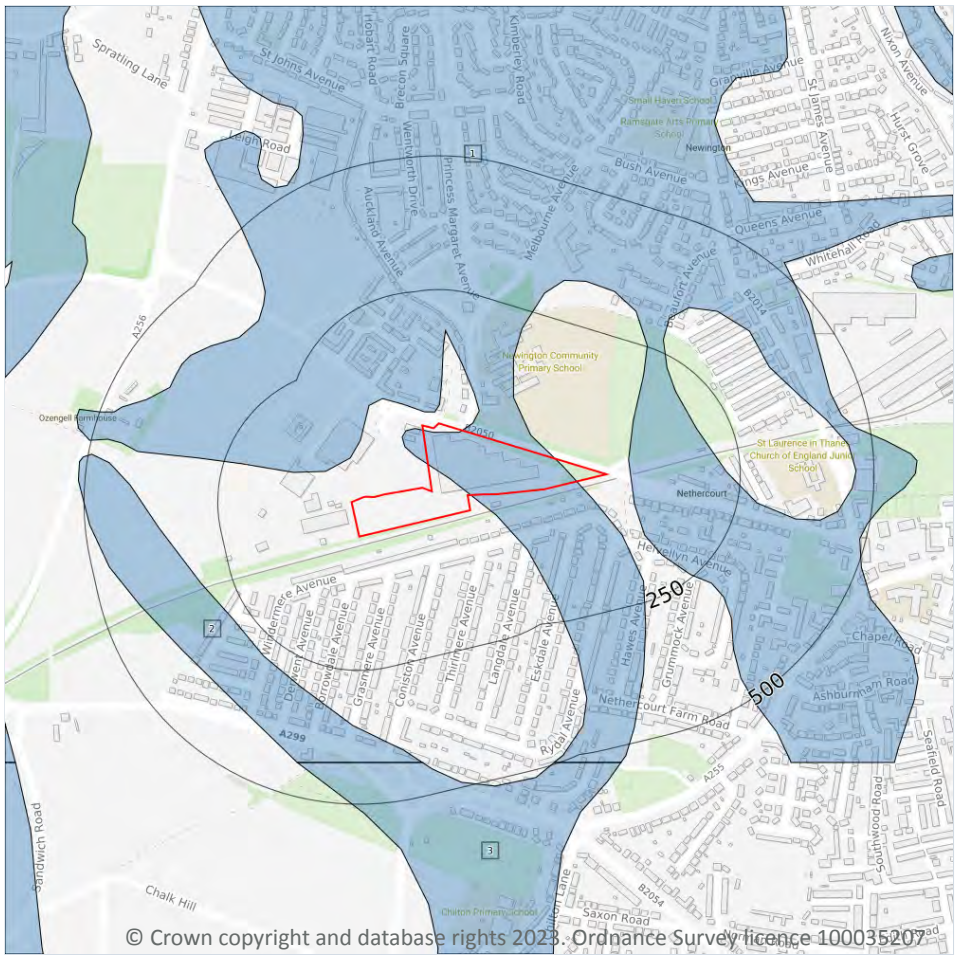
4.21 Pollution inventory radioactive waste

Records within 500m	0

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

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

5 Hydrogeology - Superficial aquifer



5.1 Superficial aquifer

Records within 500m	3

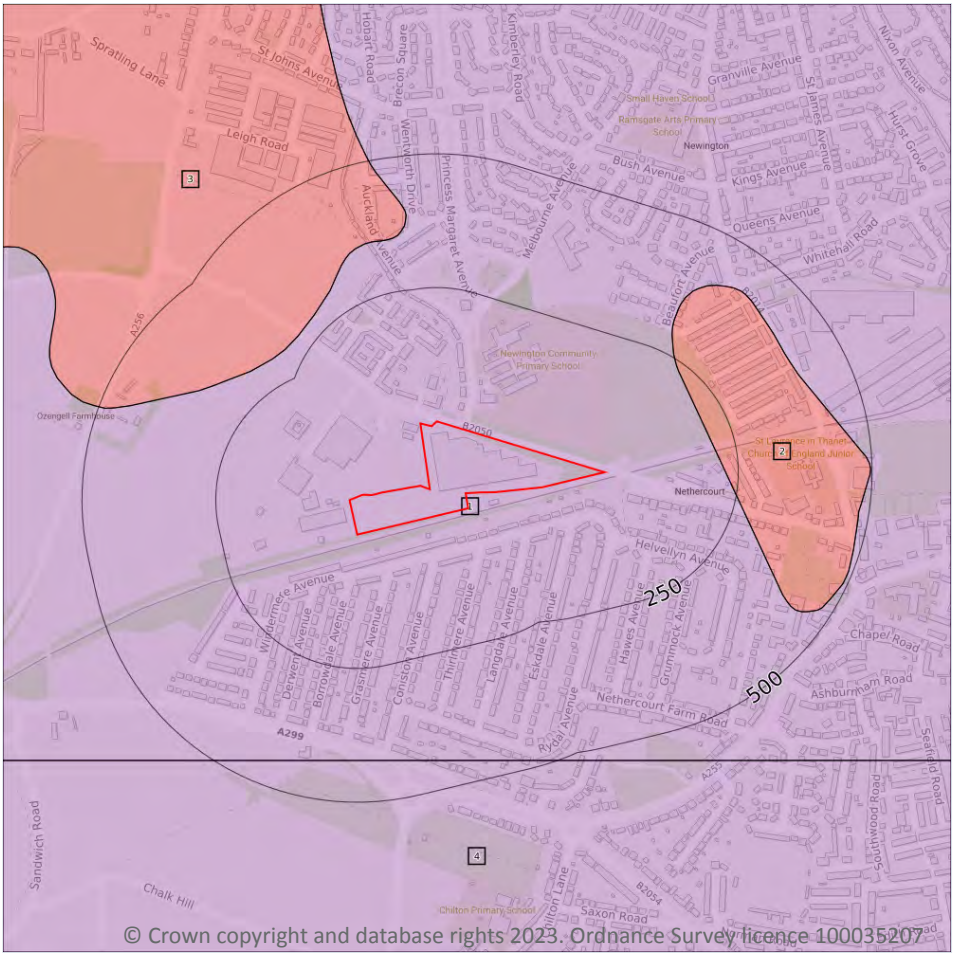
Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 41 >**

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**
2	280m SW	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
3	422m S	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.

Bedrock aquifer



Site Outline

Search buffers in metres (m)

- Principal
- Secondary A
- Secondary B
- Secondary Undifferentiated
- Unproductive

5.2 Bedrock aquifer

Records within 500m	4

Aquifer status of groundwater held within bedrock geology.

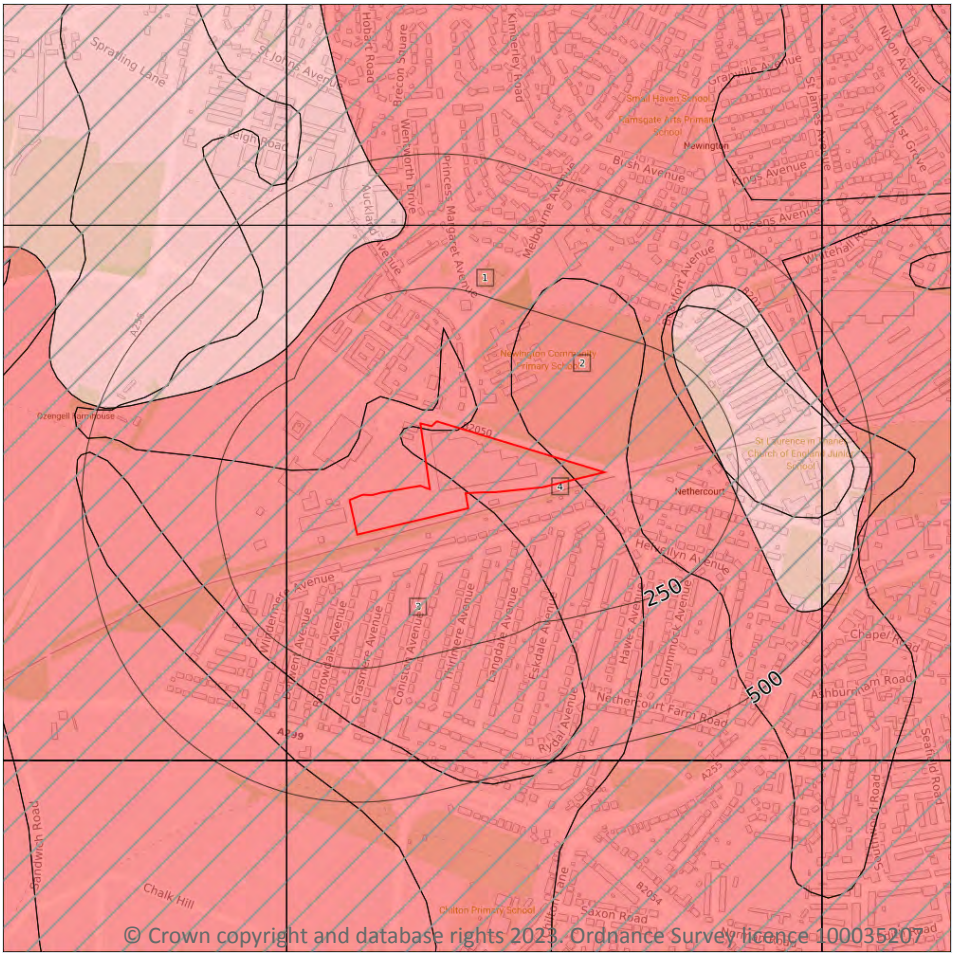
Features are displayed on the Bedrock aquifer map on **page 43 >**

ID	Location	Designation	Description
1	**On site**	**Principal**	**Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers**
2	205m E	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

ID	Location	Designation	Description
3	281m NW	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
4	422m S	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

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	3

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 45 >**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: <3m Patchiness value: <90% Recharge potential: High	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
2	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: High	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
3	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: High	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site	1

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

ID	Maximum soluble risk category	Percentage of grid square covered by maximum risk
4	**Very significant soluble rocks are likely to be present with a high possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, especially in adverse conditions such as concentrated surface or subsurface water flow.**	**35.0%**

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

5.5 Groundwater vulnerability- local information

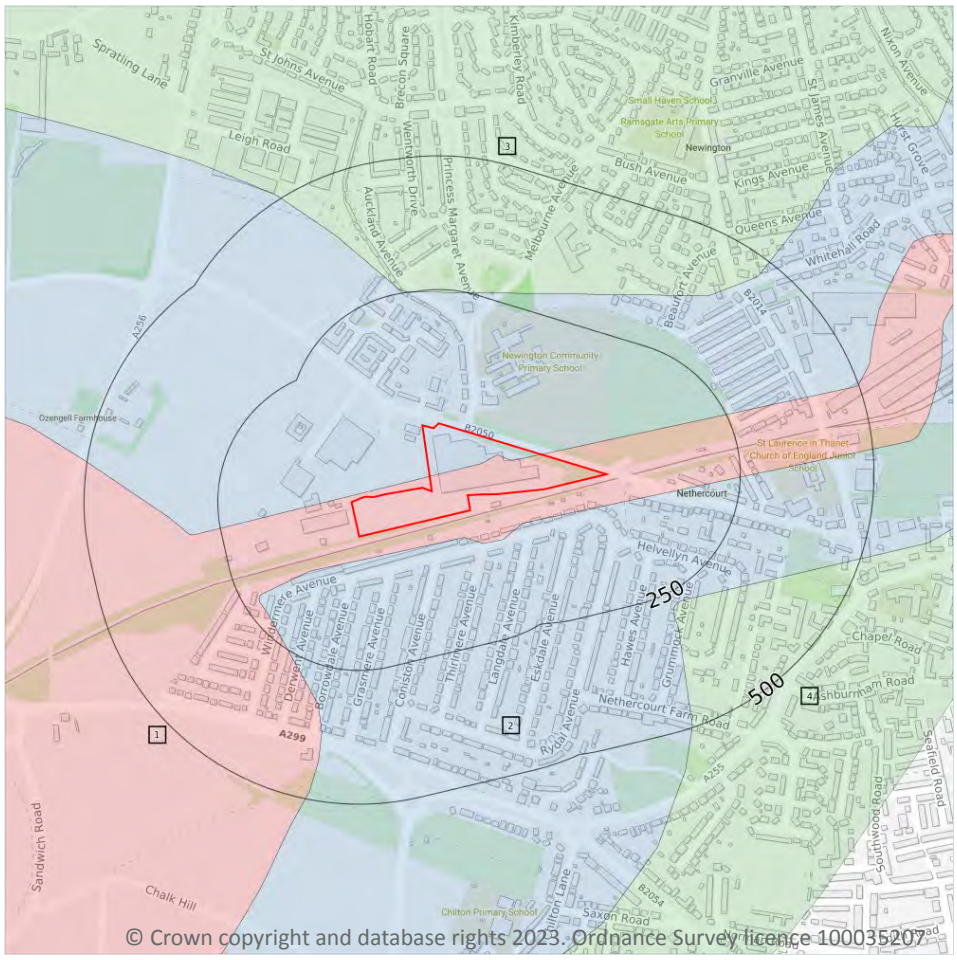
Records on site	0

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 48 >**

ID	Location	Details	
-	845m SW	Status: Active Licence No: 9/40/04/0049/GR Details: Potable Water Supply - Direct Direct Source: Southern Region Groundwater Point: BOREHOLE AT LORD OF THE MANOR PS Data Type: Point Name: Southern Water Services Ltd Easting: 635350 Northing: 165100	Annual Volume (m^3): 7250870 Max Daily Volume (m^3): 26819.8 Original Application No: WR.1037 Original Start Date: 23/11/1966 Expiry Date: - Issue No: 100 Version Start Date: 02/11/2006 Version End Date: -
-	845m SW	Status: Historical Licence No: 9/40/04/0049/GR Details: Potable Water Supply - Direct Direct Source: Southern Region Groundwater Point: BOREHOLE AT WHITEHALL PS Data Type: Point Name: Southern Water Services Plc Easting: 635350 Northing: 165100	Annual Volume (m^3): 6780359 Max Daily Volume (m^3): 26819.8 Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 02/11/2006 Version End Date: -
-	982m NE	Status: Active Licence No: 9/40/04/0049/GR Details: Potable Water Supply - Direct Direct Source: Southern Region Groundwater Point: BOREHOLE AT WHITEHALL PS Data Type: Point Name: Southern Water Services Ltd Easting: 637400 Northing: 166100	Annual Volume (m^3): 7250870 Max Daily Volume (m^3): 26819.8 Original Application No: WR.1037 Original Start Date: 23/11/1966 Expiry Date: - Issue No: 100 Version Start Date: 02/11/2006 Version End Date: -
-	982m NE	Status: Historical Licence No: 9/40/04/0049/GR Details: Potable Water Supply - Direct Direct Source: Southern Region Groundwater Point: BOREHOLE AT LORD OF THE MANOR PS Data Type: Point Name: Southern Water Services Plc Easting: 637400 Northing: 166100	Annual Volume (m^3): 6780359 Max Daily Volume (m^3): 26819.8 Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 02/11/2006 Version End Date: -
-	1612m N	Status: Historical Licence No: SO/040/0013/008 Details: Spray Irrigation - Direct Direct Source: Southern Region Groundwater Point: HAINE FARM, HAINE ROAD, RAMSGATE, KENT Data Type: Point Name: J P Ash and Sons Easting: 635964 Northing: 167217	Annual Volume (m^3): 70548 Max Daily Volume (m^3): 880 Original Application No: - Original Start Date: 02/06/2014 Expiry Date: 02/06/2019 Issue No: 1 Version Start Date: 01/04/2015 Version End Date: -

ID	Location	Details	
-	1612m N	Status: Historical Licence No: SO/040/0013/008/R01 Details: Spray Irrigation - Direct Direct Source: Southern Region Groundwater Point: HAINE FARM, HAINE ROAD, RAMSGATE, KENT Data Type: Point Name: Richard Ash Easting: 635964 Northing: 167217	Annual Volume (m^3): 70548 Max Daily Volume (m^3): 880 Original Application No: - Original Start Date: 03/06/2019 Expiry Date: 31/03/2022 Issue No: 2 Version Start Date: 13/07/2020 Version End Date: -
-	1651m NE	Status: Active Licence No: 9/40/04/0015/GR Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Southern Region Groundwater Point: K LAUNDRY WELL Data Type: Point Name: K Laundry Ltd Easting: 637022 Northing: 167134	Annual Volume (m^3): 25000 Max Daily Volume (m^3): 125 Original Application No: NPS/WR/025310 Original Start Date: 11/01/1966 Expiry Date: - Issue No: 101 Version Start Date: 04/05/2017 Version End Date: -
-	1659m NE	Status: Historical Licence No: 9/40/04/0015/GR Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Southern Region Groundwater Point: K LAUNDRY WELL Data Type: Point Name: K Laundry Ltd Easting: 637030 Northing: 167140	Annual Volume (m^3): 17274.8 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 11/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/01/1966 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	4

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 48 >**

ID	Location	Details	
-	845m SW	Status: Active Licence No: 9/40/04/0049/GR Details: Potable Water Supply - Direct Direct Source: Southern Region Groundwater Point: BOREHOLE AT LORD OF THE MANOR PS Data Type: Point Name: Southern Water Services Ltd Easting: 635350 Northing: 165100	Annual Volume (m^3): 7250870 Max Daily Volume (m^3): 26819.8 Original Application No: WR.1037 Original Start Date: 23/11/1966 Expiry Date: - Issue No: 100 Version Start Date: 02/11/2006 Version End Date: -
-	845m SW	Status: Historical Licence No: 9/40/04/0049/GR Details: Potable Water Supply - Direct Direct Source: Southern Region Groundwater Point: BOREHOLE AT WHITEHALL PS Data Type: Point Name: Southern Water Services Plc Easting: 635350 Northing: 165100	Annual Volume (m^3): 6780359 Max Daily Volume (m^3): 26819.8 Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 02/11/2006 Version End Date: -
-	982m NE	Status: Active Licence No: 9/40/04/0049/GR Details: Potable Water Supply - Direct Direct Source: Southern Region Groundwater Point: BOREHOLE AT WHITEHALL PS Data Type: Point Name: Southern Water Services Ltd Easting: 637400 Northing: 166100	Annual Volume (m^3): 7250870 Max Daily Volume (m^3): 26819.8 Original Application No: WR.1037 Original Start Date: 23/11/1966 Expiry Date: - Issue No: 100 Version Start Date: 02/11/2006 Version End Date: -
-	982m NE	Status: Historical Licence No: 9/40/04/0049/GR Details: Potable Water Supply - Direct Direct Source: Southern Region Groundwater Point: BOREHOLE AT LORD OF THE MANOR PS Data Type: Point Name: Southern Water Services Plc Easting: 637400 Northing: 166100	Annual Volume (m^3): 6780359 Max Daily Volume (m^3): 26819.8 Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 02/11/2006 Version End Date: -

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

5.9 Source Protection Zones

Records within 500m	4

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 48 >**

ID	Location	Type	Description
1	**On site**	**1**	**Inner catchment**
2	**On site**	**2**	**Outer catchment**
3	245m N	3	Total catchment
4	274m SE	3	Total catchment

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

5.10 Source Protection Zones (confined aquifer)

Records within 500m	0

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

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

6 Hydrology

6.1 Water Network (OS MasterMap)

Records within 250m	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	2

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

Features are displayed on the Hydrology map on **page 53 >**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
1	**On site**	**River**	**Monkton and Minster Marshes**	**GB107040019621**	**Stour Marshes**	**Stour**
2	**On site**	**Coastal Catchment**	**Not part of a river WB catchment**	**392**	**Thanet**	**Stour**

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

6.4 WFD Surface water bodies

Records identified	1

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

Features are displayed on the Hydrology map on **page 53 >**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	3852m SW	River	Monkton and Minster Marshes	GB107040019621 ↗	Moderate	Fail	Moderate	2019

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

6.5 WFD Groundwater bodies

Records on site	1

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 53 >**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
3	**On site**	**Kent Isle of Thanet Chalk**	**GB40701G500100** ↗	**Poor**	**Poor**	**Poor**	**2019**

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 the sea

Records within 50m	0

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

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.

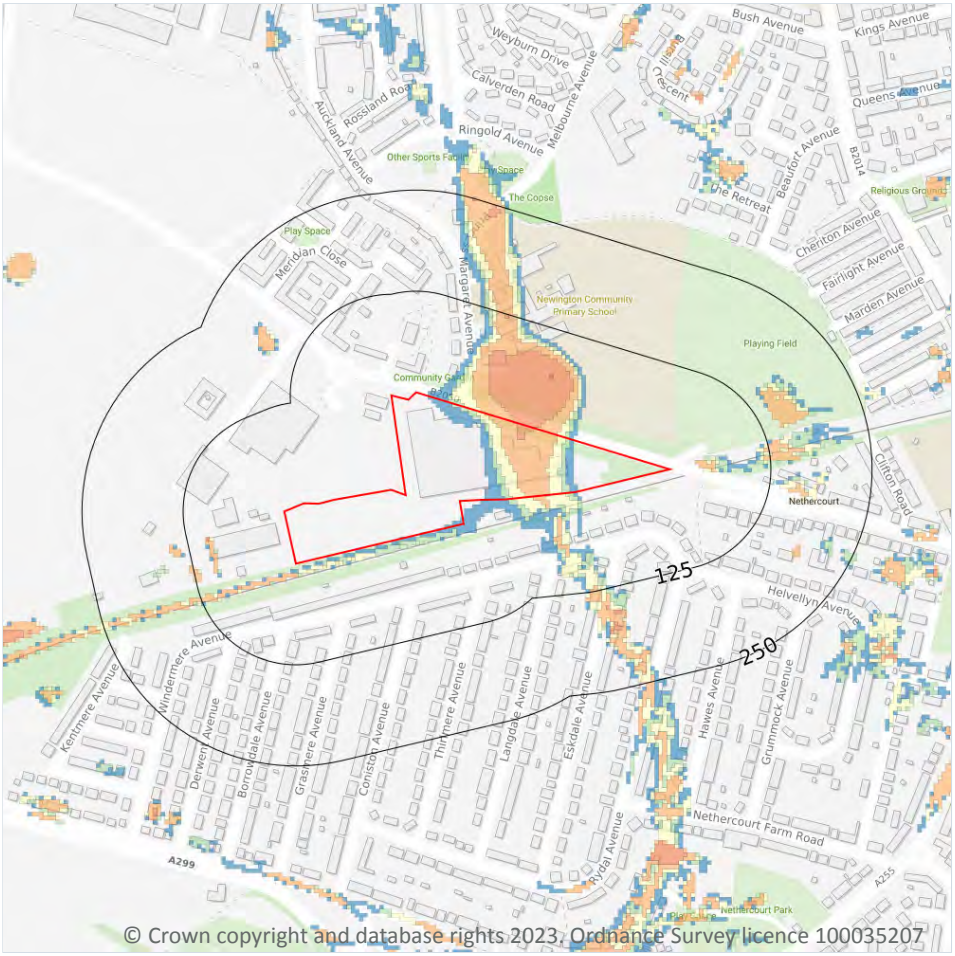
7.7 Flood Zone 3

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



8.1 Surface water flooding

Highest risk on site	**1 in 30 year, 0.3m - 1.0m**
Highest risk within 50m	**1 in 30 year, 0.3m - 1.0m**

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

Features are displayed on the Surface water flooding map on **page 59 >**

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

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

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

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding

9.1 Groundwater flooding

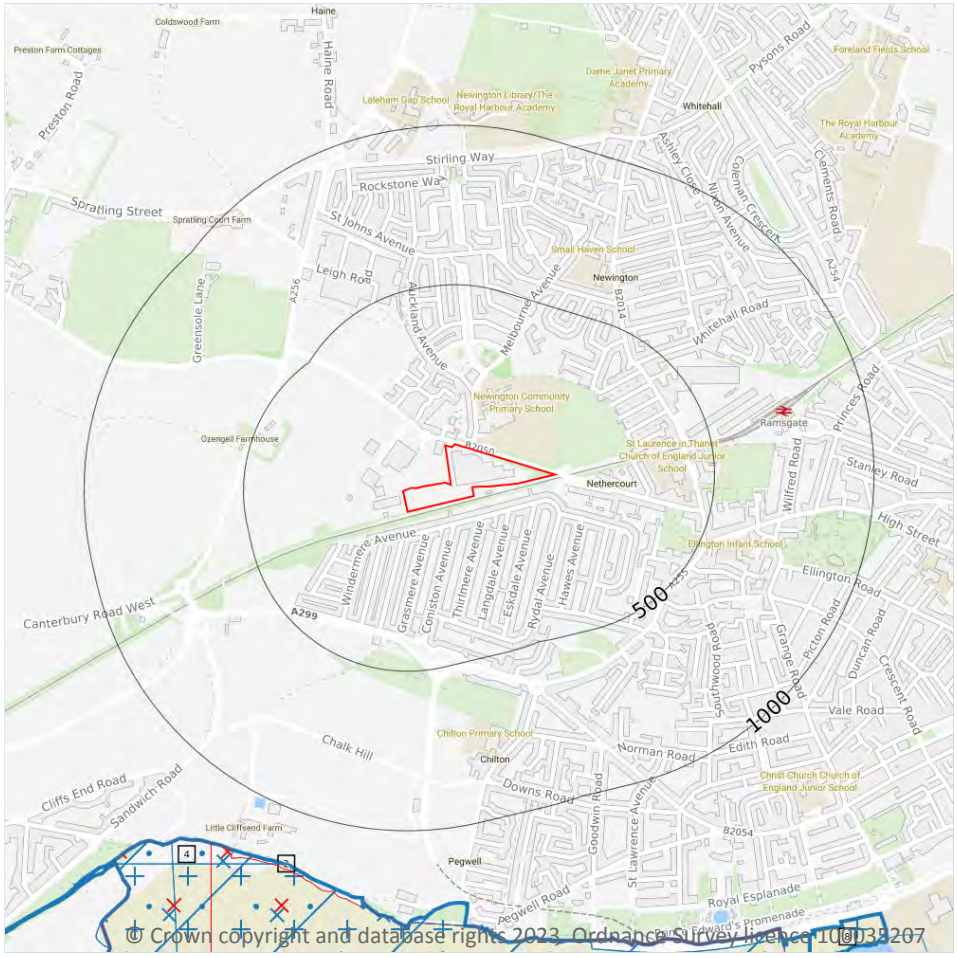
Highest risk on site	**Low**
Highest risk within 50m	**Low**

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

Features are displayed on the Groundwater flooding map on **page 61 >**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



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Site Outline

Search buffers in metres (m)

- Sites of Special Scientific Interest (SSSI)
- Conserved wetland sites (Ramsar sites)
- Special Areas of Conservation (SAC)
- Special Protection Areas (SPA)
- National Nature Reserves (NNR)

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	2

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 62 >**

ID	Location	Name	Data source
A	1166m SW	Sandwich Bay to Hacklinge Marshes	Natural England

ID	Location	Name	Data source
8	1642m SE	Sandwich Bay to Hacklinge Marshes	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	**3**

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

Features are displayed on the Environmental designations map on **page 62 >**

ID	Location	Site	Details
A	1166m SW	Name: Thanet Coast & Sandwich Bay Site status: Listed Data source: Natural England	Overview: A coastal site, consisting of a long stretch of rocky shore, adjoining areas of estuary, sand dune, maritime grassland, saltmarsh and grazing marsh. The wetland habitats support 15 British Red Data Book invertebrates, as well as a large number of nationally scarce species. The site attracts internationally important numbers of turnstone Arenaria interpres, and nationally important numbers of nationally important wintering populations of four wader species: ringed plover, golden plover, grey plover and sanderling, as well as Lapland bunting. The site is used by large numbers of migratory birds. Ramsar criteria: Ramsar criterion 2 Supports 15 British Red Data Book wetland invertebrates.
-	1694m S	Name: Thanet Coast & Sandwich Bay Site status: Listed Data source: Natural England	Overview: A coastal site, consisting of a long stretch of rocky shore, adjoining areas of estuary, sand dune, maritime grassland, saltmarsh and grazing marsh. The wetland habitats support 15 British Red Data Book invertebrates, as well as a large number of nationally scarce species. The site attracts internationally important numbers of turnstone Arenaria interpres, and nationally important numbers of nationally important wintering populations of four wader species: ringed plover, golden plover, grey plover and sanderling, as well as Lapland bunting. The site is used by large numbers of migratory birds. Ramsar criteria: Ramsar criterion 2 Supports 15 British Red Data Book wetland invertebrates.

ID	Location	Site	Details
-	1695m S	Name: Thanet Coast & Sandwich Bay Site status: Listed Data source: Natural England	Overview: A coastal site, consisting of a long stretch of rocky shore, adjoining areas of estuary, sand dune, maritime grassland, saltmarsh and grazing marsh. The wetland habitats support 15 British Red Data Book invertebrates, as well as a large number of nationally scarce species. The site attracts internationally important numbers of turnstone Arenaria interpres, and nationally important numbers of nationally important wintering populations of four wader species: ringed plover, golden plover, grey plover and sanderling, as well as Lapland bunting. The site is used by large numbers of migratory birds. Ramsar criteria: Ramsar criterion 2 Supports 15 British Red Data Book wetland invertebrates.

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m **2**

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

Features are displayed on the Environmental designations map on **page 62 >**

ID	Location	Name	Features of interest	Habitat description	Data source
1	1166m SW	Thanet Coast	Subtidal sandbanks; Intertidal mudflats and sandflats; Reefs; Sea caves.	Shingle, Sea cliffs, Islets; Marine areas, Sea inlets; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins)	Natural England
7	1271m SW	Sandwich Bay	Atlantic salt meadows; Shifting dunes; Shifting dunes with marram; Dune grassland; Dunes with sea-buckthorn; Dunes with creeping willow; Humid dune slacks; Great crested newt.	Coniferous woodland; Bogs, Marshes, Water fringed vegetation, Fens; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Inland water bodies (Standing water, Running water); Coastal sand dunes, Sand beaches, Machair; Improved grassland; Salt marshes, Salt pastures, Salt steppes; Humid grassland, Mesophile grassland	Natural England

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

10.4 Special Protection Areas (SPA)

Records within 2000m	**6**

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

Features are displayed on the Environmental designations map on **page 62 >**

ID	Location	Name	Species of interest	Habitat description	Data source
2	1166m SW	Thanet Coast & Sandwich Bay	European golden plover; Ruddy turnstone; Little tern	Shingle, Sea cliffs, Islets; Humid grassland, Mesophile grassland; Other arable land; Improved grassland; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Coastal sand dunes, Sand beaches, Machair	Natural England
3	1166m SW	Thanet Coast & Sandwich Bay	European golden plover; Ruddy turnstone; Little tern	Shingle, Sea cliffs, Islets; Humid grassland, Mesophile grassland; Other arable land; Improved grassland; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Coastal sand dunes, Sand beaches, Machair	Natural England
4	1170m SW	Thanet Coast & Sandwich Bay	European golden plover; Ruddy turnstone; Little tern	Shingle, Sea cliffs, Islets; Humid grassland, Mesophile grassland; Other arable land; Improved grassland; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Coastal sand dunes, Sand beaches, Machair	Natural England
-	1694m S	Thanet Coast & Sandwich Bay	European golden plover; Ruddy turnstone; Little tern	Shingle, Sea cliffs, Islets; Humid grassland, Mesophile grassland; Other arable land; Improved grassland; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Coastal sand dunes, Sand beaches, Machair	Natural England
-	1696m S	Thanet Coast & Sandwich Bay	European golden plover; Ruddy turnstone; Little tern	Shingle, Sea cliffs, Islets; Humid grassland, Mesophile grassland; Other arable land; Improved grassland; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Coastal sand dunes, Sand beaches, Machair	Natural England
-	1883m SW	Thanet Coast & Sandwich Bay	European golden plover; Ruddy turnstone; Little tern	Shingle, Sea cliffs, Islets; Humid grassland, Mesophile grassland; Other arable land; Improved grassland; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Coastal sand dunes, Sand beaches, Machair	Natural England

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

10.5 National Nature Reserves (NNR)

Records within 2000m	2

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.

Features are displayed on the Environmental designations map on **page 62 >**

ID	Location	Name	Data source
5	1182m SW	Sandwich & Pegwell Bay	Natural England
6	1207m SW	Sandwich & Pegwell Bay	Natural England

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

10.6 Local Nature Reserves (LNR)

Records within 2000m	0

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

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

10.7 Designated Ancient Woodland

Records within 2000m	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

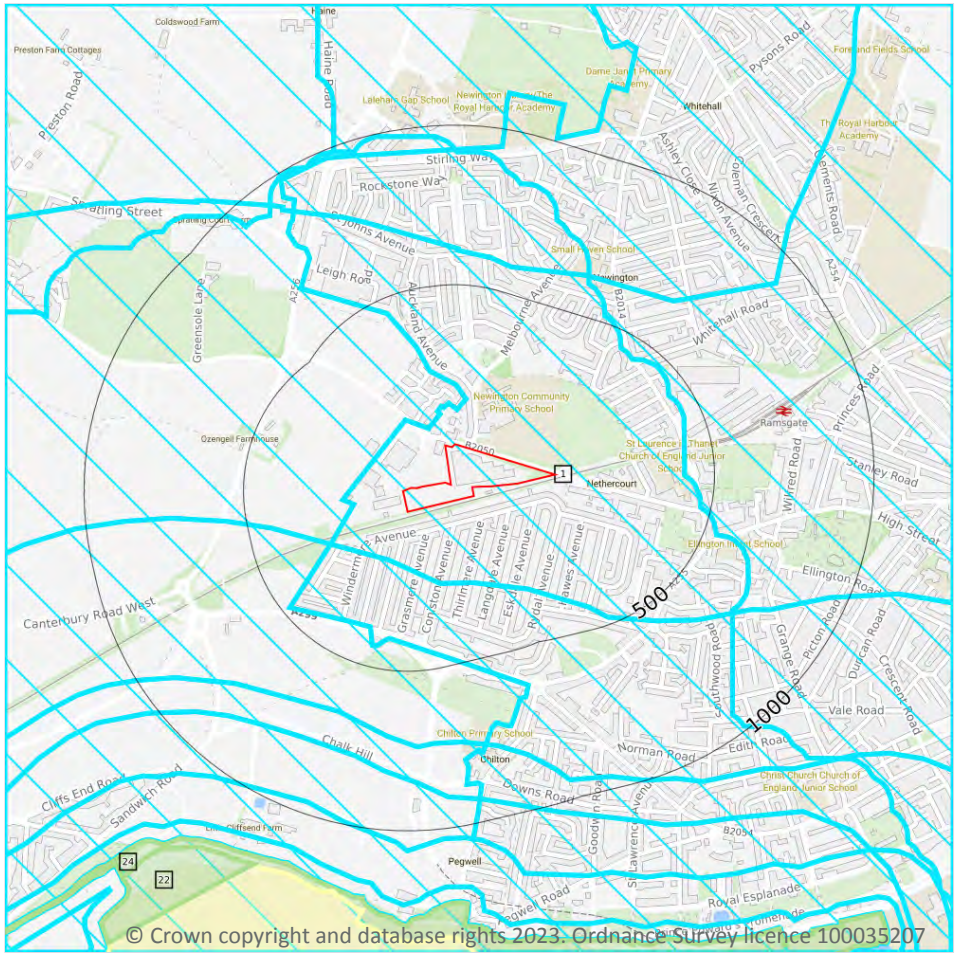
Records within 2000m	2

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

Location	Name	Type	NVZ ID	Status
On site	**Thanet**	**Groundwater**	**66**	**Existing**
348m N	Thanet	Groundwater	66	Existing

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

SSSI Impact Zones and Units



10.17 SSSI Impact Risk Zones

Records on site	1

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

Features are displayed on the SSSI Impact Zones and Units map on **page 69 >**

ID	Location	Type of developments requiring consultation
1	On site	**Infrastructure - Pipelines and underground cables, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction. Rural non-residential - Large non residential developments outside existing settlements/urban areas where footprint exceeds 1ha. Rural residential - Any residential development of 100 or more houses outside existing settlements/urban areas. Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 200m², manure stores > 250t). Combustion - General combustion processes >20MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill. Composting - Any composting proposal with more than 75000 tonnes maximum annual operational throughput. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management. Discharges - Any discharge of water or liquid waste of more than 5m³/day to ground (ie to seep away) or to surface water, such as a beck or stream. Water supply - Large infrastructure such as warehousing / industry where total net additional gross internal floorspace following development is 1,000m² or more. Notes: Strategic solutions for recreational impacts are in place. Please contact your Local Planning Authority as they have the information to advise on specific requirements.**

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	**5**

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 69 >**

ID:	20
Location:	1166m SW
SSSI name:	Sandwich Bay to Hacklinge Marshes
Unit name:	Pegwell Cliffs
Broad habitat:	Supralittoral Rock
Condition:	Favourable
Reportable features:	

Feature name	Feature condition	Date of assessment
H1170 Reefs	Not Recorded	01/01/1900
H8330 Submerged or partially submerged sea caves	Not Recorded	01/01/1900

ID: 21
Location: 1197m SW
SSSI name: Sandwich Bay to Hacklinge Marshes
Unit name: Nnr Pegwell Bay
Broad habitat: Littoral Sediment
Condition: Unfavourable - Recovering
Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of non-breeding birds - Golden plover, Pluvialis apricaria	Unfavourable - Recovering	07/12/2012
Aggregations of non-breeding birds - Grey plover, Pluvialis squatarola	Unfavourable - Recovering	07/12/2012
Aggregations of non-breeding birds - Ringed plover, Charadrius hiaticula	Unfavourable - Recovering	07/12/2012
Aggregations of non-breeding birds - Sanderling, Calidris alba	Unfavourable - Recovering	07/12/2012

ID: 22
Location: 1204m SW
SSSI name: Sandwich Bay to Hacklinge Marshes
Unit name: Nnr Pegwell Saltmarsh North
Broad habitat: Littoral Sediment
Condition: Favourable
Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of non-breeding birds - Golden plover, Pluvialis apricaria	Favourable	21/11/2012
Aggregations of non-breeding birds - Grey plover, Pluvialis squatarola	Favourable	21/11/2012
Aggregations of non-breeding birds - Ringed plover, Charadrius hiaticula	Favourable	21/11/2012
Aggregations of non-breeding birds - Sanderling, Calidris alba	Favourable	21/11/2012
Invert. assemblage M311 saltmarsh and transitional brackish marsh	Favourable	21/11/2012
SM4-28 - Saltmarsh	Favourable	21/11/2012
Vascular plant assemblage	Favourable	21/11/2012

ID: 24
Location: 1290m SW
SSSI name: Sandwich Bay to Hacklinge Marshes
Unit name: Cliffs Behind Pegwell Hoverport
Broad habitat: Earth Heritage
Condition: Favourable
Reportable features:

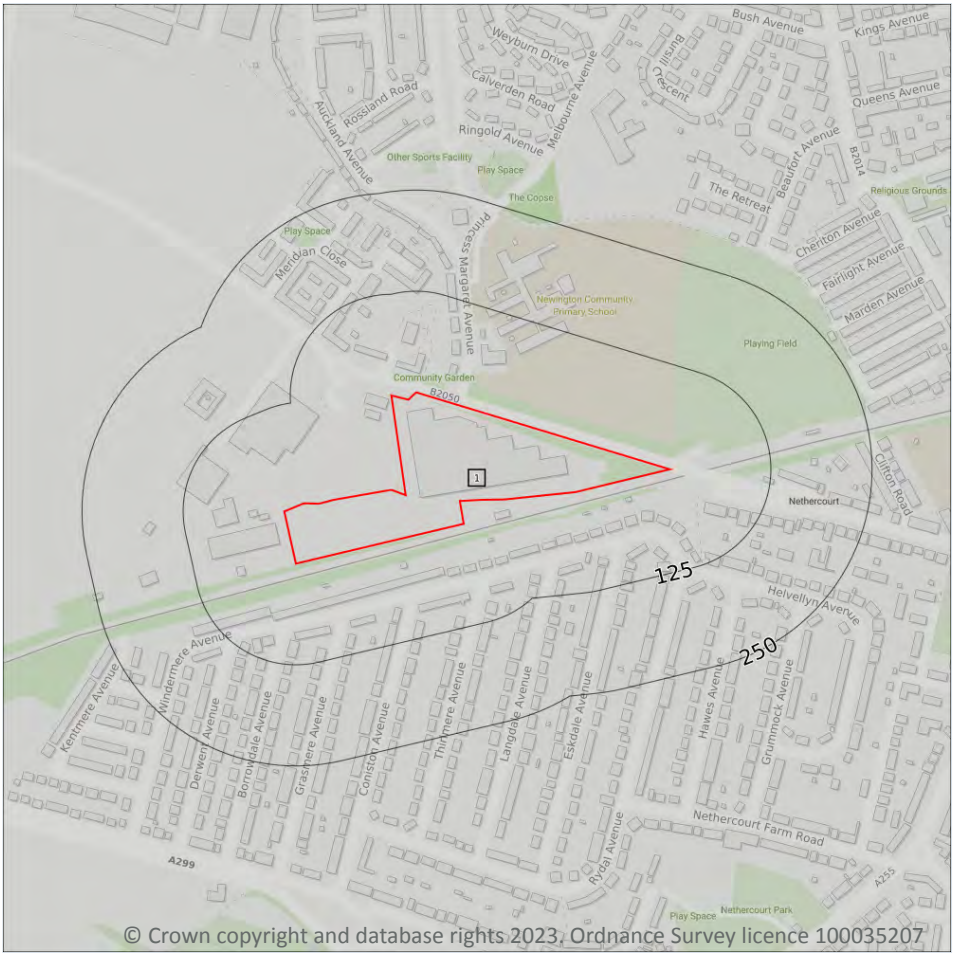
Feature name	Feature condition	Date of assessment
EC - Cenomanian-Maastrichtian	Favourable	21/10/2009
EC - Mesozoic - Tertiary Fish/Amphibia	Favourable	21/10/2009
EC - Palaeogene	Favourable	21/10/2009
EC - Quaternary of South-East England	Favourable	21/10/2009

ID: -
Location: 1902m SW
SSSI name: Sandwich Bay to Hacklinge Marshes
Unit name: Nnr Pegwell Saltmarsh South
Broad habitat: Littoral Sediment
Condition: Favourable
Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of non-breeding birds - Golden plover, Pluvialis apricaria	Favourable	21/11/2012
Aggregations of non-breeding birds - Grey plover, Pluvialis squatarola	Favourable	21/11/2012
Aggregations of non-breeding birds - Ringed plover, Charadrius hiaticula	Favourable	21/11/2012
Aggregations of non-breeding birds - Sanderling, Calidris alba	Favourable	21/11/2012
Invert. assemblage M311 saltmarsh and transitional brackish marsh	Favourable	21/11/2012
SM4-28 - Saltmarsh	Favourable	10/11/2020
Vascular plant assemblage	Favourable	21/11/2012

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	0

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

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

11.5 Conservation Areas

Records within 250m	1

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 73 >**

ID	Location	Name	District	Date of designation
1	**On site**	**The Local Authority for this area have not supplied conservation area data.**		**-**

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

11.6 Scheduled Ancient Monuments

Records within 250m	**0**

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

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

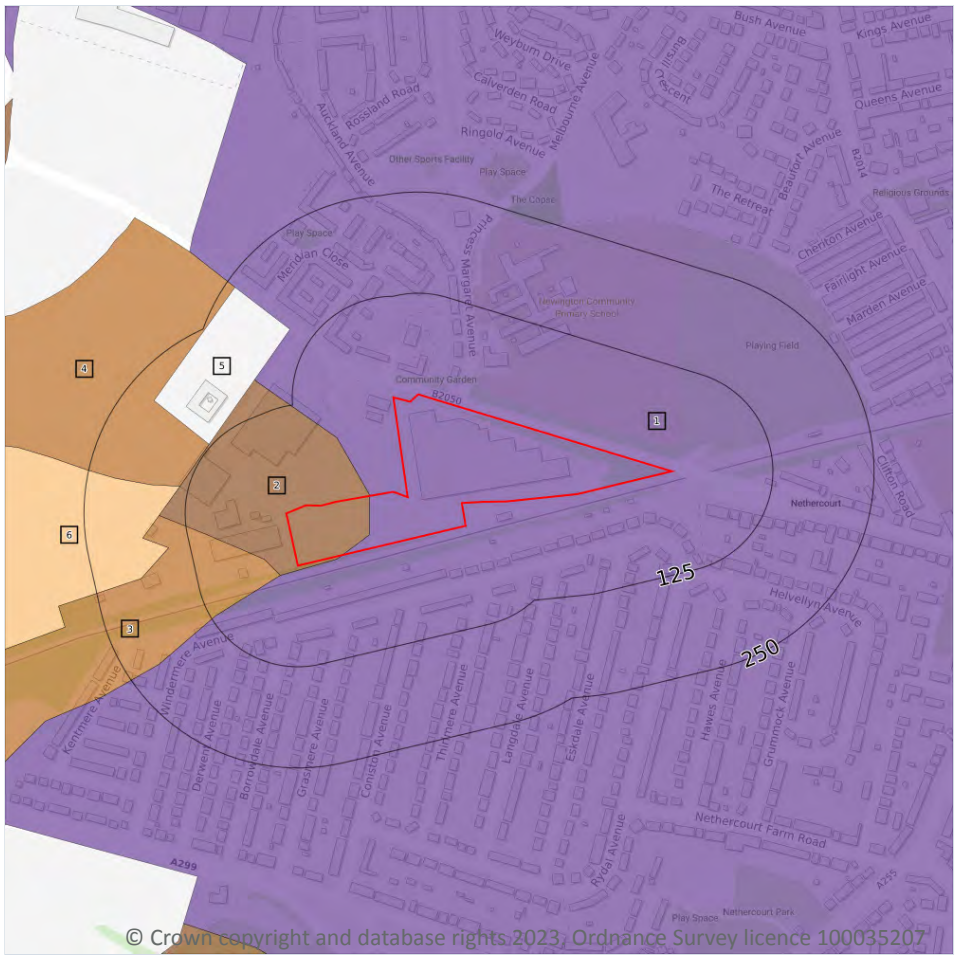
11.7 Registered Parks and Gardens

Records within 250m	**0**

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

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

12 Agricultural designations



Site Outline

Search buffers in metres (m)

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

12.1 Agricultural Land Classification

Records within 250m	6

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

Features are displayed on the Agricultural designations map on **page 76 >**

ID	Location	Classification	Description
1	**On site**	**Urban**	**-**
2	**On site**	**Grade 1**	**Excellent quality agricultural land. Land with no or very minor limitations to agricultural use. A very wide range of agricultural and horticultural crops can be grown and commonly includes top fruit, soft fruit, salad crops and winter harvested vegetables. Yields are high and less variable than on land of lower quality.**

ID	Location	Classification	Description
3	25m SW	Grade 2	Very good quality agricultural land. Land with minor limitations which affect crop yield, cultivations or harvesting. A wide range of agricultural and horticultural crops can usually be grown but on some land in the grade there may be reduced flexibility due to difficulties with the production of the more demanding crops such as winter harvested vegetables and arable root crops. The level of yield is generally high but may be lower or more variable than Grade 1.
4	127m W	Grade 2	Very good quality agricultural land. Land with minor limitations which affect crop yield, cultivations or harvesting. A wide range of agricultural and horticultural crops can usually be grown but on some land in the grade there may be reduced flexibility due to difficulties with the production of the more demanding crops such as winter harvested vegetables and arable root crops. The level of yield is generally high but may be lower or more variable than Grade 1.
5	128m W	Not Surveyed	-
6	136m W	Grade 3a	Good quality agricultural land. Land capable of consistently producing moderate to high yields of a narrow range of arable crops, especially cereals, or moderate yields of a wide range of crops including cereals, grass, oilseed rape, potatoes, sugar beet and the less demanding horticultural crops.

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. The schemes identified may be historical schemes that have now expired, or may still be active.

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m	0

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

This data is sourced from Natural England.

13 Habitat designations

Site Outline

Search buffers in metres (m)

Priority Habitat Inventory
Open Mosaic Habitat
Limestone Pavement Orders

Habitat Networks

Primary Habitat
Restorable Habitat
Associated Habitats
Habitat Restoration-Creation
Network Enhancement Zone 1
Network Enhancement Zone 2

13.1 Priority Habitat Inventory

Records within 250m	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	2

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.

Features are displayed on the Habitat designations map on **page 79 >**

ID	Location	Site reference	Identification confidence	Primary source	Secondary source	Tertiary source
1	**On site**	**NLUD Ref: 226000027**	**Low**	**National Land Use Database - Previously Developed Land**	**UK Perspectives Aerial Photography**	**-**
2	144m NW	NLUD Ref: 226000027	Low	National Land Use Database - Previously Developed Land	UK Perspectives Aerial Photography	-

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

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 81 >**

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

This data is sourced from the British Geological Survey.

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

14.2 Artificial and made ground (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial

14.3 Superficial geology (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Bedrock

14.5 Bedrock geology (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

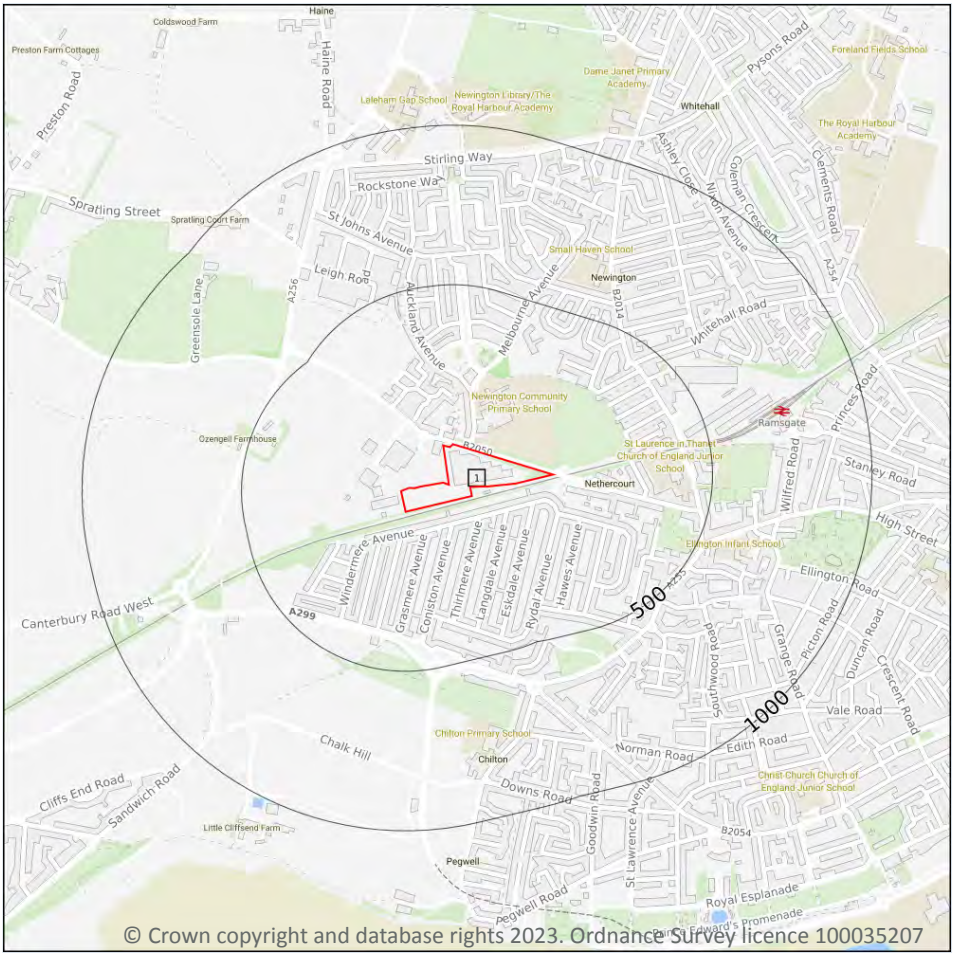
14.6 Bedrock faults and other linear features (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

15 Geology 1:50,000 scale - Availability



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 85 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**No coverage**	**Full**	**Full**	**No coverage**	**EW274_ramsgate_v4**

This data is sourced from the British Geological Survey.

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

15.2 Artificial and made ground (50k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

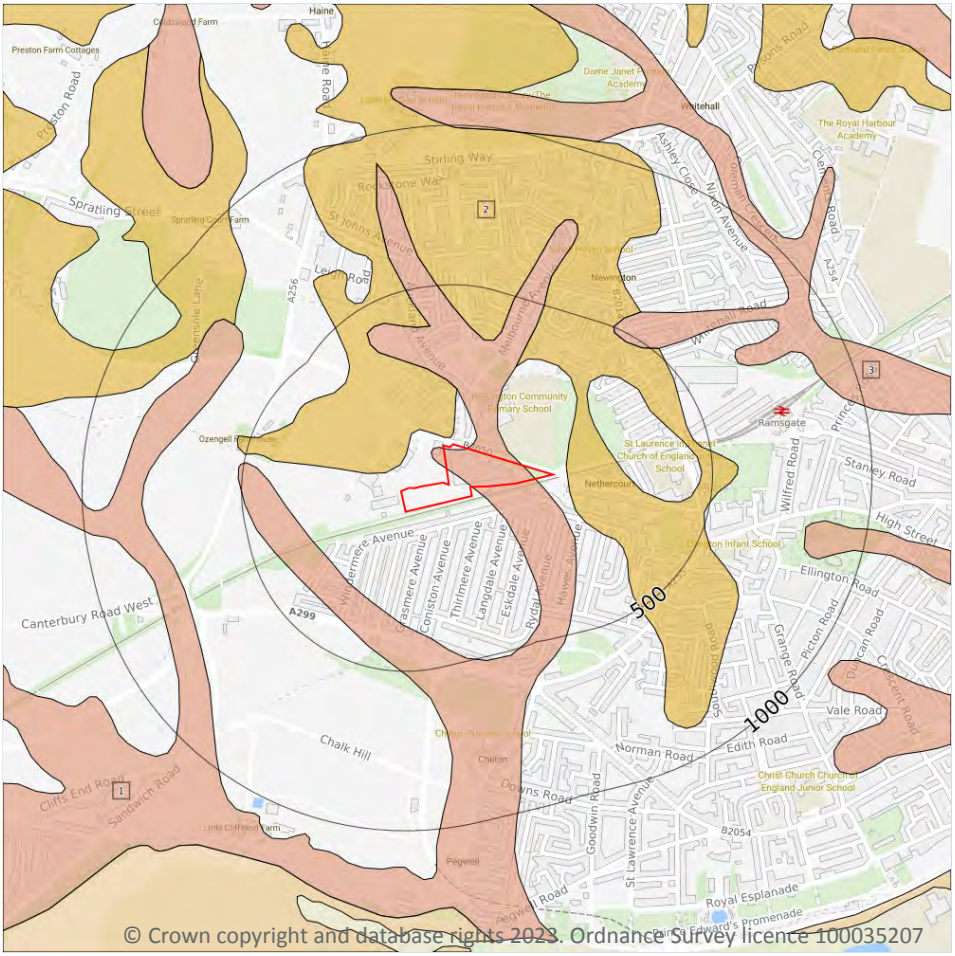
15.3 Artificial ground permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

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

15.4 Superficial geology (50k)

Records within 500m **3**

Superficial geological deposits at 1:50,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 87 >**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**HEAD1-XCZ**	**HEAD, 1**	**CLAY AND SILT**
2	23m NW	HEAD2-XCZ	HEAD, 2	CLAY AND SILT
3	475m NE	HEAD1-XCZ	HEAD, 1	CLAY AND SILT

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	2

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Mixed**	**Low**	**Very Low**
23m NW	Mixed	Low	Very Low

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

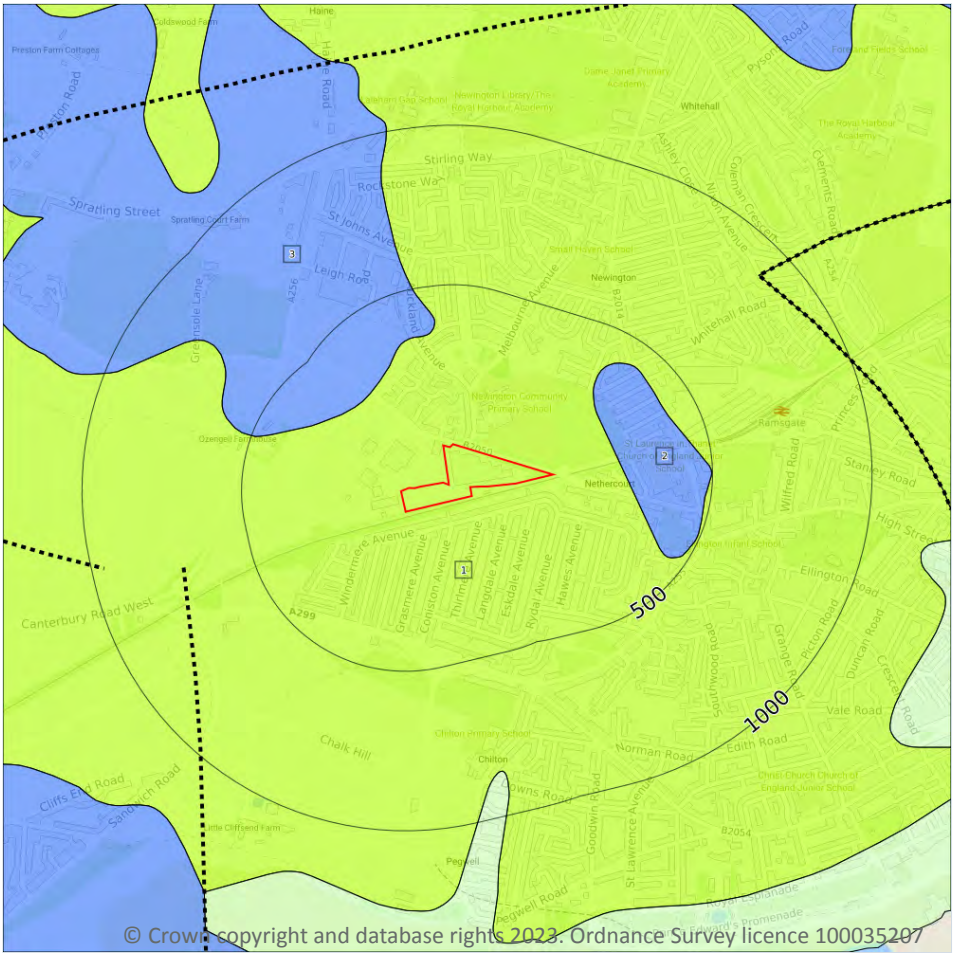
15.7 Landslip permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (50k)

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

15.8 Bedrock geology (50k)

Records within 500m **3**

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 89 >**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**MACK-CHLK**	**MARGATE CHALK MEMBER - CHALK**	**SANTONIAN**
2	205m E	TAB-XSZC	THANET FORMATION - SAND, SILT AND CLAY	THANETIAN
3	281m NW	TAB-XSZC	THANET FORMATION - SAND, SILT AND CLAY	THANETIAN

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	**Fracture**	**Very High**	**Very High**

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	0

Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

This data is sourced from the British Geological Survey.

16 Boreholes

Site Outline

Search buffers in metres (m)

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

16.1 BGS Boreholes

Records within 250m	3

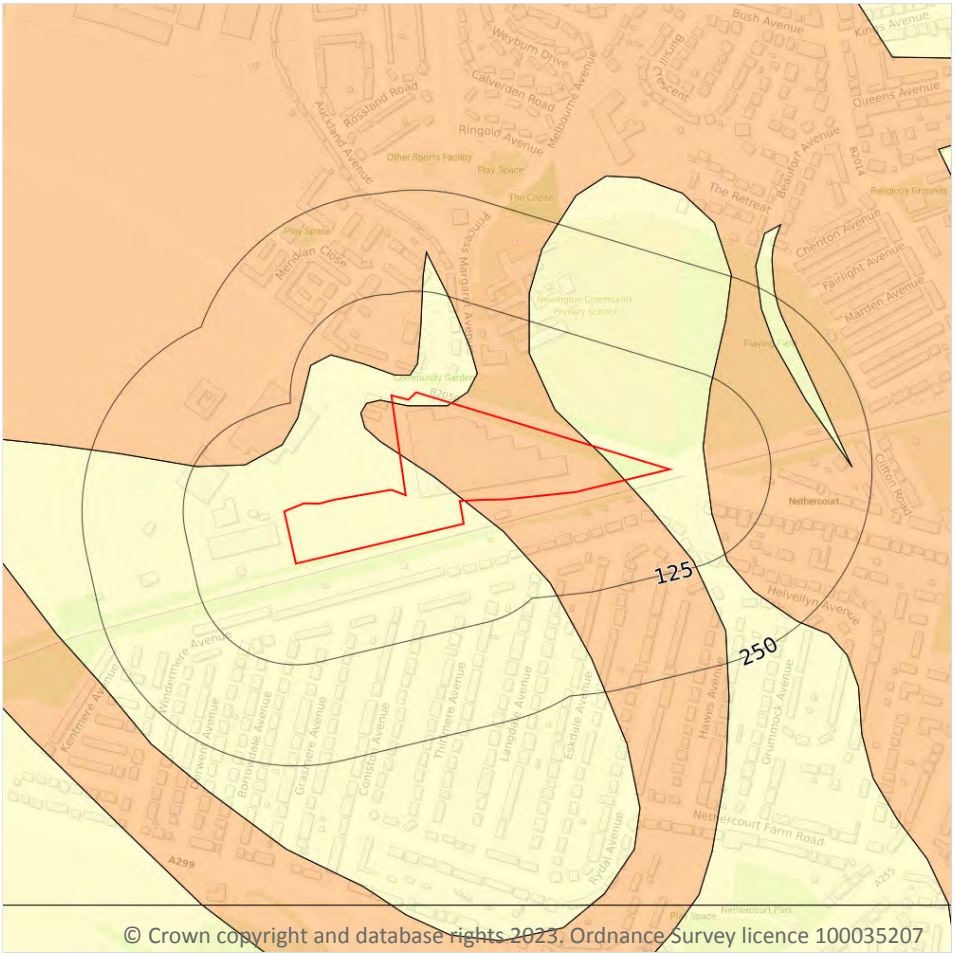
The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several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

Features are displayed on the Boreholes map on **page 91 >**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	3m SW	636130 165420	RAMSGATE PROPOSED S-STN2	4.57	N	630403 ↗
2	53m SW	636080 165410	RAMSGATE PROPOSED S-STN1	4.57	N	630402 ↗
3	191m E	636780 165580	B.T.C RAMSGATE	7.62	N	630401 ↗

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

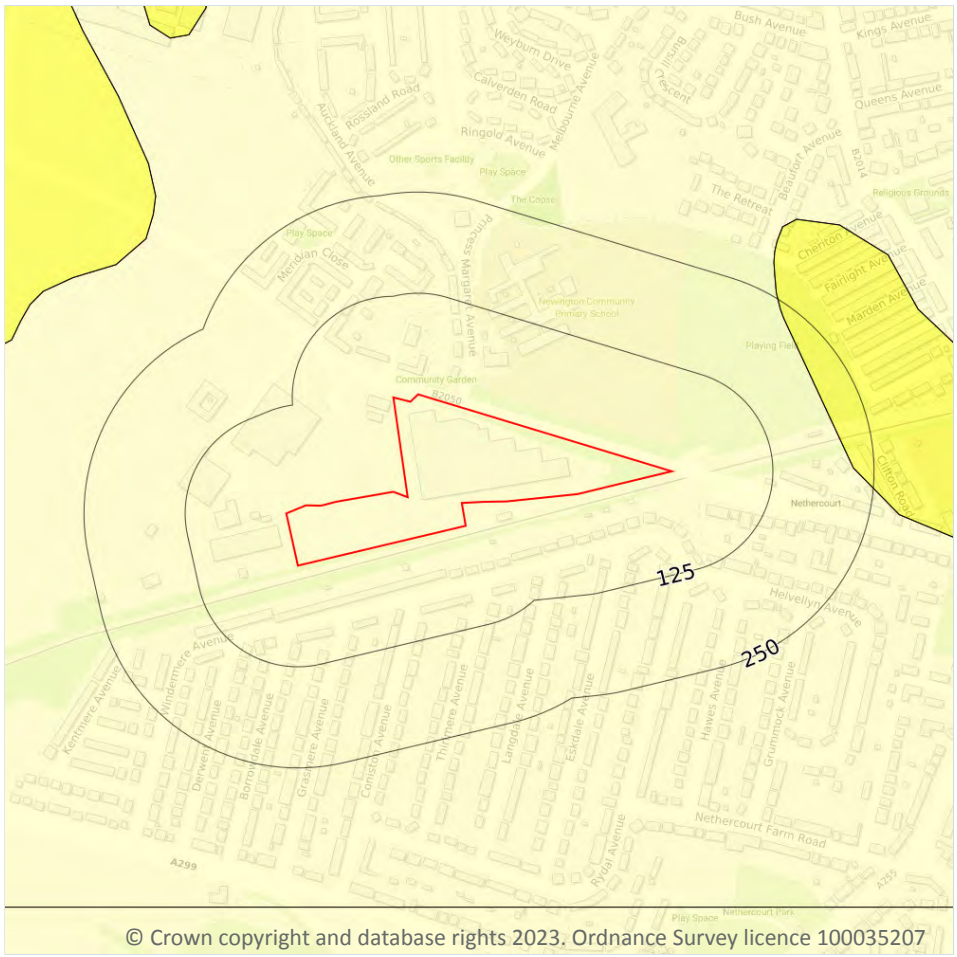
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 93 >**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



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 94 >**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits

17.3 Compressible deposits

Records within 50m	1

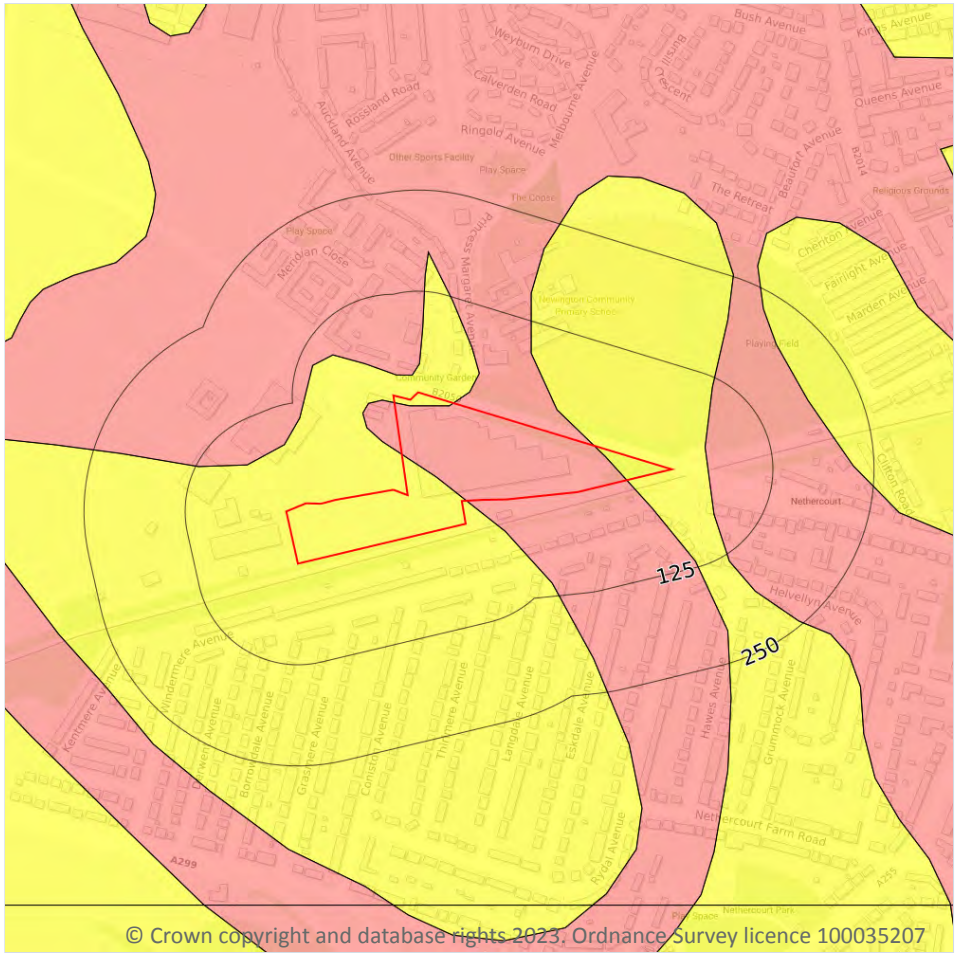
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 95 >**

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



17.4 Collapsible deposits

Records within 50m	2

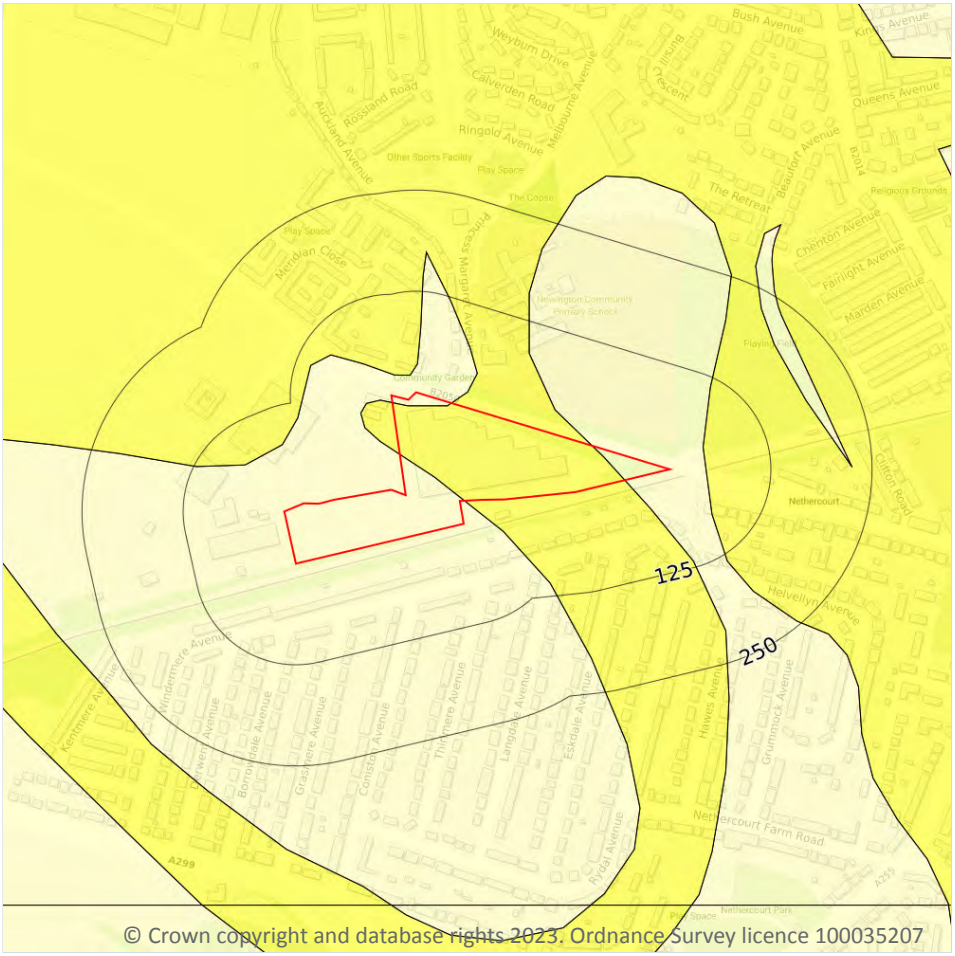
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 96 >**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



Site Outline

Search buffers in metres (m)

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

17.5 Landslides

Records within 50m	2

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

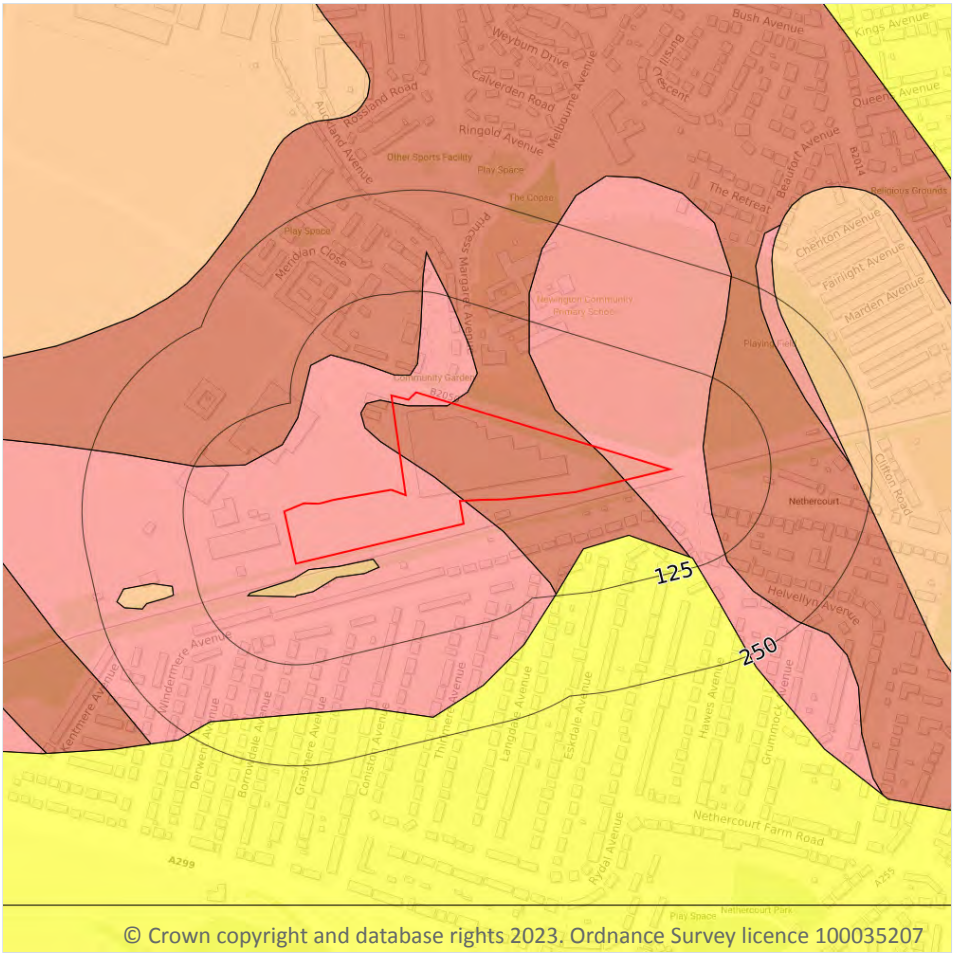
Features are displayed on the Natural ground subsidence - Landslides map on **page 97 >**

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

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	3

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

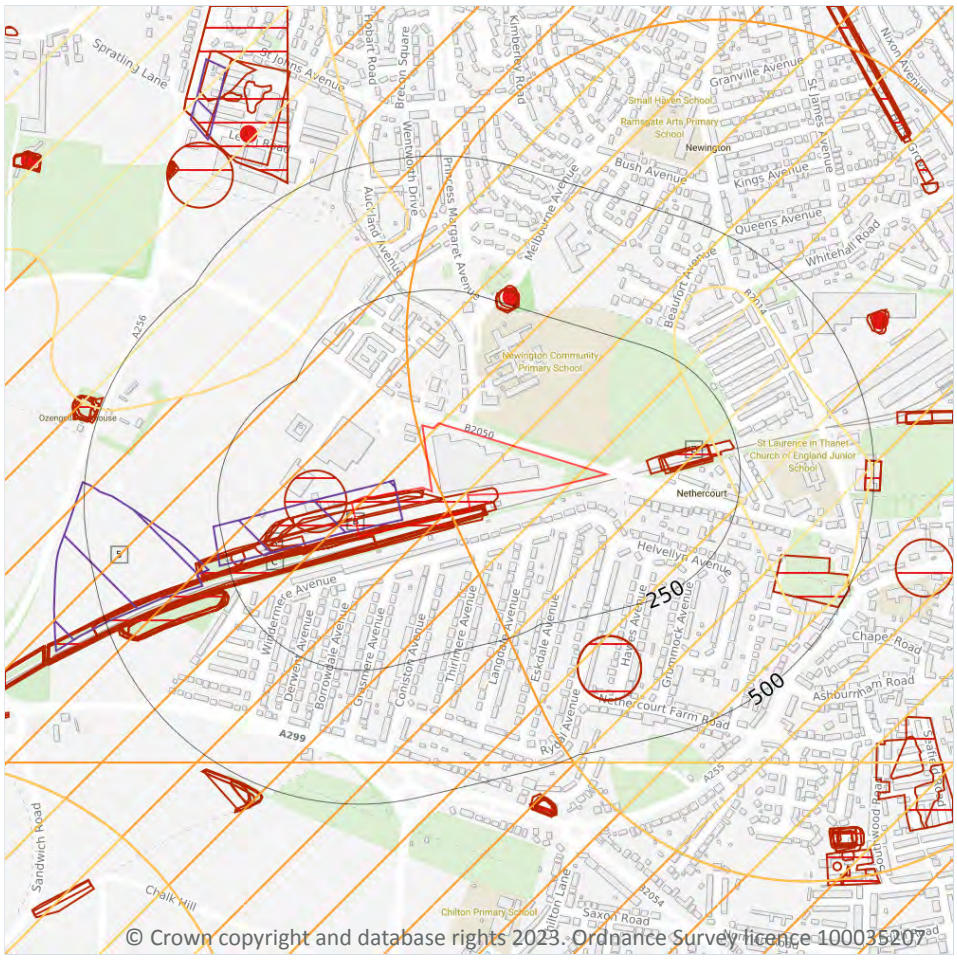
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 99 >**

Location	Hazard rating	Details
On site	**Moderate**	**Soluble rocks are present within the ground. Many dissolution features may be present. Potential for difficult ground conditions are at a level where they should be considered. Potential for subsidence is at a level where it may need to be considered.**

Location	Hazard rating	Details
On site	**High**	**Soluble rocks are present within the ground. Numerous dissolution features may be present. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered.**
11m SW	Low	Soluble rocks are present within the ground. Some dissolution features may be present. Potential for difficult ground conditions are at a level where they may be considered, localised subsidence need not be considered except in exceptional circumstances.

This data is sourced from the British Geological Survey.

18 Mining and ground workings



18.1 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 and ground workings map on **page 101 >**

ID	Location	Details	Description
E	265m N	Name: Newington Chalk Pit Address: Newington, RAMSGATE, Kent Commodity: Chalk Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m	**32**

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

Features are displayed on the Mining and ground workings map on **page 101 >**

ID	Location	Land Use	Year of mapping	Mapping scale
A	**On site**	**Unspecified Ground Workings**	**1977**	**1:10000**
A	**On site**	**Unspecified Ground Workings**	**1971**	**1:10000**
B	**On site**	**Unspecified Heap**	**1872**	**1:10560**
B	**On site**	**Unspecified Pit**	**1962**	**1:10560**
C	**On site**	**Cuttings**	**1948**	**1:10560**
C	**On site**	**Cuttings**	**1931**	**1:10560**
C	**On site**	**Cuttings**	**1905**	**1:10560**
C	**On site**	**Cuttings**	**1872**	**1:10560**
C	**On site**	**Cuttings**	**1897**	**1:10560**
C	**On site**	**Cuttings**	**1931**	**1:10560**
C	**On site**	**Cuttings**	**1905**	**1:10560**
C	1m SW	Cuttings	1938	1:10560
C	5m SW	Cuttings	1977	1:10000
C	5m SW	Cuttings	1962	1:10560
C	5m SW	Cuttings	1994	1:10000
C	5m SW	Cuttings	1971	1:10000

ID	Location	Land Use	Year of mapping	Mapping scale
A	9m W	Site of Cemetery	1897	1:10560
D	79m E	Cuttings	1872	1:10560
C	100m SW	Unspecified Ground Workings	1994	1:10000
D	102m E	Cuttings	1897	1:10560
C	106m SW	Unspecified Ground Workings	1962	1:10560
D	106m E	Cuttings	1905	1:10560
D	111m E	Cuttings	1905	1:10560
A	114m W	Unspecified Ground Workings	1994	1:10000
C	217m W	Unspecified Ground Workings	1938	1:10560
C	217m W	Unspecified Ground Workings	1938	1:10560
E	235m N	Unspecified Quarry	1938	1:10560
E	239m N	Unspecified Pit	1948	1:10560
E	239m N	Unspecified Pit	1931	1:10560
E	239m N	Unspecified Pit	1905	1:10560
E	239m N	Old Chalk Pit	1897	1:10560
E	245m N	Unspecified Pit	1872	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.3 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.

18.4 Underground mining extents

Records within 500m	0

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

This data is sourced from Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m	**2**

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

Features are displayed on the Mining and ground workings map on **page 101 >**

ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
A	**On site**	**Manston Road**	**Chalk**	**Surface mineral working**	**Valid**	**Not available**
5	288m W	Haine Road	Chalk	Surface mineral working	Refused	22/4/76

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m	**13**

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

Features are displayed on the Mining and ground workings map on **page 101 >**

ID	Location	Name	Commodity	Class	Likelihood
1	**On site**	**Not available**	**Chalk**	**B**	**Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.**
2	**On site**	**Not available**	**Chalk**	**C**	**Underground mine workings may have occurred in the past, or current mines may be operating to modern engineering standards. Potential for difficult ground conditions should be considered.**
3	205m E	Not available	Chalk	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.

ID	Location	Name	Commodity	Class	Likelihood
4	281m NW	Not available	Chalk	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
7	422m S	Not available	Chalk	C	Underground mine workings may have occurred in the past, or current mines may be operating to modern engineering standards. Potential for difficult ground conditions should be considered.
8	510m S	Not available	Chalk	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
10	715m SW	Not available	Chalk	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	861m S	Not available	Chalk	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	884m SW	Not available	Chalk	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	903m NE	Not available	Chalk	C	Underground mine workings may have occurred in the past, or current mines may be operating to modern engineering standards. Potential for difficult ground conditions should be considered.
-	910m NE	Not available	Chalk	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	949m W	Manston Road	Chalk	D	Underground mining is considered likely to have occurred within or close to the area. The location, extent and nature of mining should be considered in any site investigation. Potential for difficult ground conditions should be considered.
-	999m W	Manston Road	Chalk	E	Underground mining is known or considered likely within or very close to the area. The location, extent and nature of mining should be considered in any site investigation. Potential for difficult ground conditions should be considered.

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site	0

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

This data is sourced from Johnson Poole and Bloomer.

18.8 The Coal Authority non-coal mining

Records within 500m	0

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

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m	2

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

Location	Mineral type
301m W	Stone
402m SW	Stone

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m	0

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

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m	0

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

This data is sourced from Groundsure.

18.12 Coal mining

Records on site	0

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

This data is sourced from the Coal Authority.

18.13 Brine areas

Records on site	0

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

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

18.14 Gypsum areas

Records on site	0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.15 Tin mining

Records on site	0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

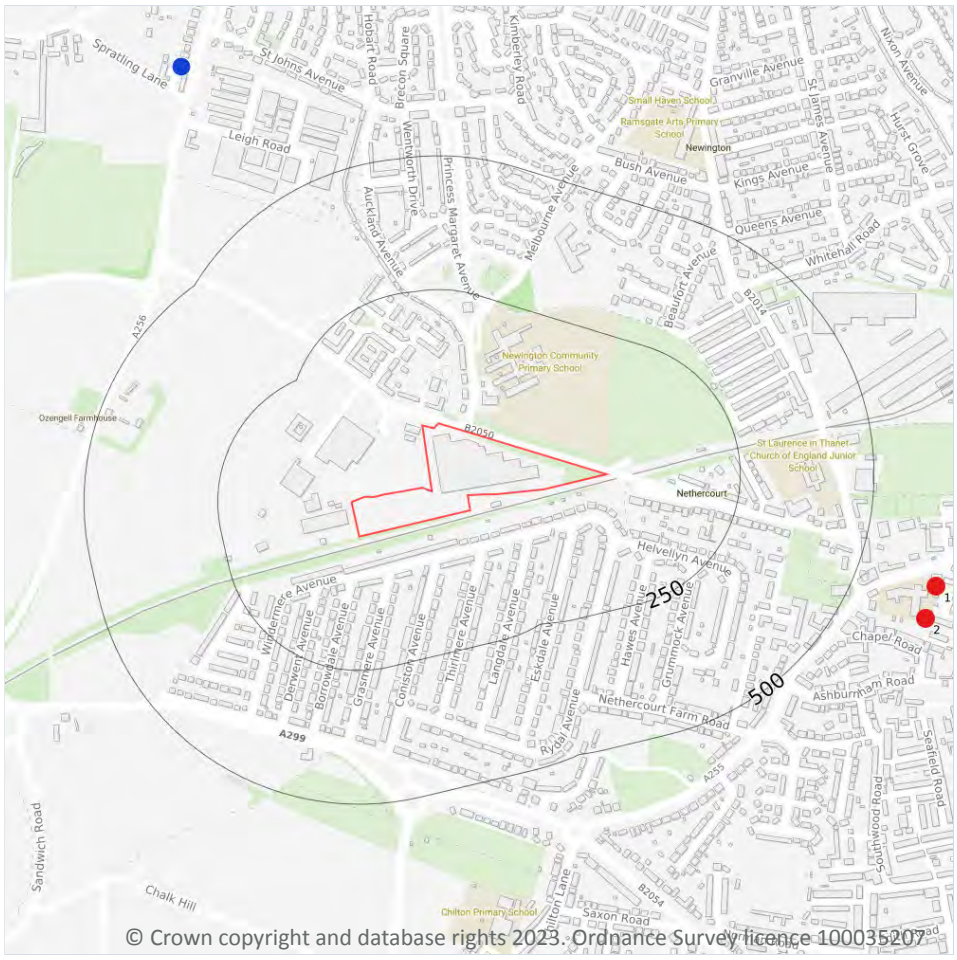
18.16 Clay mining

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 Ground cavities and sinkholes



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- Site Outline

Search buffers in metres (m)

- Natural cavities (Area)
- Natural cavities (Point)
- Mining cavities
- Reported recent incidents
- Historical incidents
- BGS karst database (Point)
- BGS karst database (Line)
- BGS karst database (Area)

19.1 Natural cavities

Records within 500m	0

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

This data is sourced from Stantec UK Ltd.

19.2 Mining cavities

Records within 1000m	5

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

Features are displayed on the Ground cavities and sinkholes map on **page 109 >**

ID	Location	Mine Address	Mineral	Data source	Publisher
1	651m E	Ramsgate, Kent	Chalk	-	Chelsea Speleological Society
2	654m E	Ramsgate, Kent	Chalk	-	Chelsea Speleological Society
-	807m E	(North Eastern Wing), Ramsgate, Kent	Man made i.e. secret tunnels, air raid shelters	-	-
-	841m E	Ramsgate, Kent	Chalk	-	Chelsea Speleological Society
-	968m E	(Western Wing), Ramsgate, Kent	Man made i.e. secret tunnels, air raid shelters	-	-

This data is sourced from Stantec UK Ltd.

19.3 Reported recent incidents

Records within 500m	0

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

This data is sourced from Groundsure.

19.4 Historical incidents

Records within 500m	0

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

commonly found in the limestone landscapes of North Yorkshire but also extensively noted around the Brecon Beacons National Park.

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

This data is sourced from Groundsure.

19.5 National karst database

Records within 500m	**0**

This is a comprehensive database of national karst information gathered from a wide range of sources. BGS have collected data on five main types of karst feature: Sinkholes, stream links, caves, springs, and incidences of associated damage to buildings, roads, bridges and other engineered works.

Since the database was set up in 2002 data covering most of the evaporite karst areas of the UK have now been added, along with data covering about 60% of the Chalk, and 35% of the Carboniferous Limestone outcrops. Many of the classic upland karst areas have yet to be included. Recorded so far are: Over 800 caves, 1300 stream sinks, 5600 springs, 10,000 sinkholes.

The database is not yet complete, and not all records have been verified. The absence of data does not mean that karst features are not present at a site. A reliability rating is included with each record.

This data is sourced from the British Geological Survey.

20 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%

20.1 Radon

Records on site	1

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

Features are displayed on the Radon map on **page 112 >**

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

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

21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m **11**

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	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
15m E	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
23m NW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
30m E	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
45m E	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m **0**

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km^2).

This data is sourced from the British Geological Survey.

21.3 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.

22 Railway infrastructure and projects

Site Outline

Search buffers in metres (m)

- Crossrail 1 Stations
- Crossrail 1 Route
- Crossrail 2 Stations
- Crossrail 2 Route
- Crossrail 2 Worksites
- Crossrail 2 Safeguarding
- Crossrail 2 Headhouses
- Railway stations
- Active railways
- Active tunnels
- Abandoned railways
- Historic railways
- Historic tunnels
- Underground stations
- Underground Lines
- Royal Mail tunnels
- HS2 optimised route
- HS2 Stations
- HS2 Depots
- HS2 Surface Safeguarding
- HS2 Subsurface Safeguarding

22.1 Underground railways (London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m	0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m	22

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 116 >**

Location	Land Use	Year of mapping	Mapping scale
On site	**Railway Sidings**	**1969**	**1250**
On site	**Railway Sidings**	**1969**	**2500**
On site	**Railway Sidings**	**1994**	**10000**
On site	**Railway Sidings**	**1971**	**10000**
On site	**Railway Sidings**	**1977**	**10000**
3m E	Railway Sidings	1948	10560
3m E	Railway Sidings	1931	10560
3m E	Railway Sidings	1999	1250
4m E	Railway Sidings	1966	1250
26m E	Railway Sidings	1938	10560
26m E	Railway Sidings	1969	2500
28m E	Railway Sidings	1981	1250
28m E	Railway Sidings	1955	1250
28m E	Railway Sidings	1969	1250
29m E	Railway Sidings	1955	2500
29m E	Railway Sidings	1931	2500
29m E	Railway Sidings	1938	2500

Location	Land Use	Year of mapping	Mapping scale
30m E	Railway Sidings	1931	10560
65m E	Railway Sidings	1981	1250
67m E	Railway Sidings	1969	2500
69m E	Railway Sidings	1955	1250
69m E	Railway Sidings	1969	1250

This data is sourced from Ordnance Survey/Groundsure.

22.5 Royal Mail tunnels

Records within 250m	0

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

This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m	0

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

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m	13

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 116 >**

Location	Name	Type
4m E	Depot Reception West	rail
8m S	Ashford to Ramsgate	rail
12m S	Not given	Multi Track
12m S	Ashford to Ramsgate	rail

Location	Name	Type
12m E	Not given	Multi Track
14m E	Not given	Multi Track
14m E	Not given	Multi Track
29m SE	Not given	Multi Track
44m E	Up Siding West	rail
49m E	Not given	Multi Track
69m E		rail
128m E		rail
179m E	Not given	Multi Track

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 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.

22.9 Crossrail 2

Records within 500m	**0**

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

This data is sourced from publicly available information by Groundsure.

22.10 HS2

Records within 500m	**0**

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

This data is sourced from HS2 ltd.

Data providers

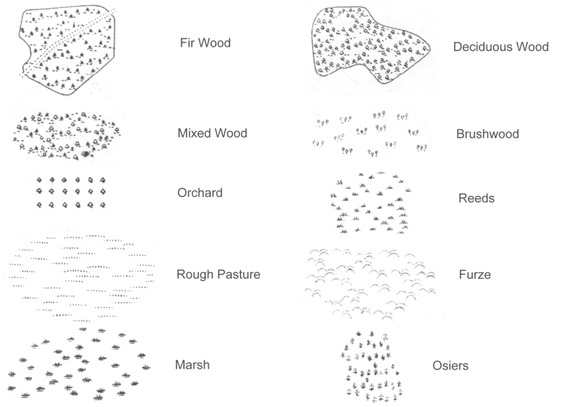
Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see https://www.groundsure.com/sources-reference ↗.

Terms and conditions

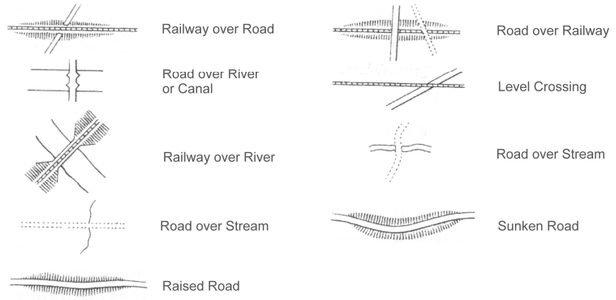
Groundsure's Terms and Conditions can be accessed at this link: https://www.groundsure.com/terms-and-conditions-april-2023/ ↗.

County Series 1:10,560 scale

VEGETATION

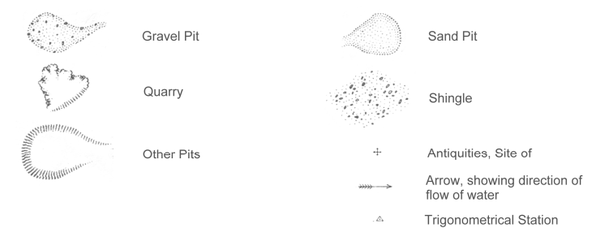


ROADS



RAILWAYS

GENERAL FEATURES



BOUNDARIES

National Grid 1:10,000 scale

HEIGHTS (METRES)

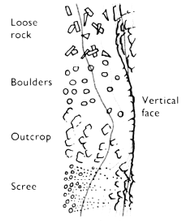
Values are given in metres above mean sea level at Newlyn.

Surface heights determined by: ground survey ▪ 163m; air survey ▪

Bench marks and their values are shown on large scale maps, and bench mark lists containing fuller and possibly later levelling information are obtainable from the Director General, Ordnance Survey.

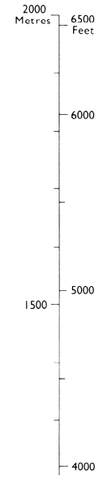
Contours are at 5 metres vertical interval.

ROCK FEATURES



CONVERSION SCALE

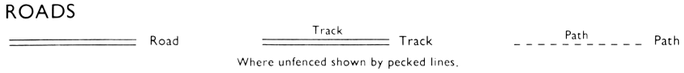
Metres - Feet



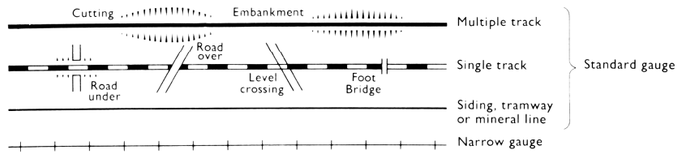
ABBREVIATIONS

BP,BS	Boundary Post or Stone	PO	Post Office
Ch	Church	PC	Public Convenience
CH	Club House	PH	Public House
F Sta	Fire Station	S	Stone
FB	Foot Bridge	Spr	Spring
Fn	Fountain	TCB	Telephone Call Box
GP	Guide Post	TCP	Telephone Call Post
MP,MS	Mile Post or Stone	TH	Town Hall
P	Pole or Post	W	Well
Pol Sta	Police Station	Y	Youth hostel

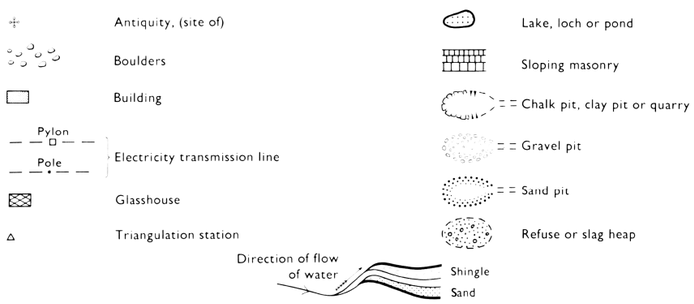
ROADS



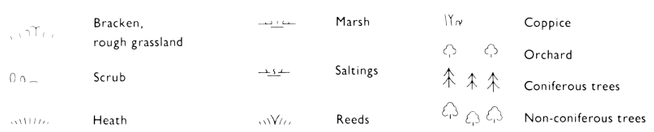
RAILWAYS



GENERAL FEATURES



VEGETATION



In some areas bracken ( ) and rough grassland ( ) are shown separately.

GroundSure

Historical Map Pack Legend

County Series & National Grid

1:10,560 scale

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Technical Helpline

Tel 08444159000

groundsureinsight@groundsure.com
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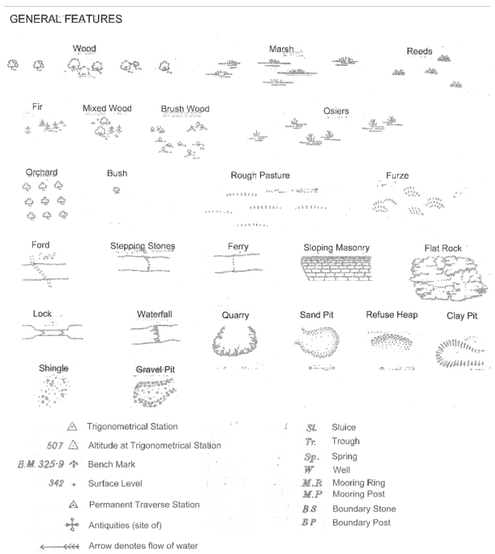
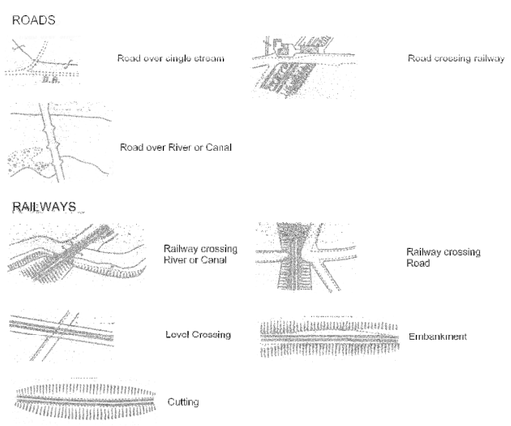
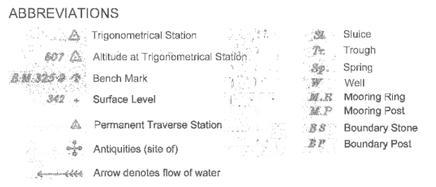
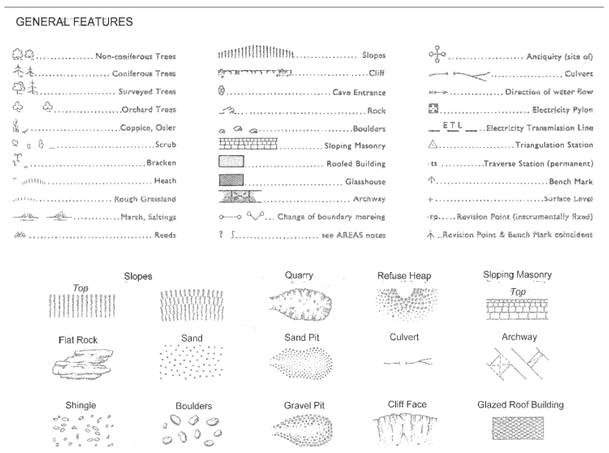
County Series 1:2,500 scale

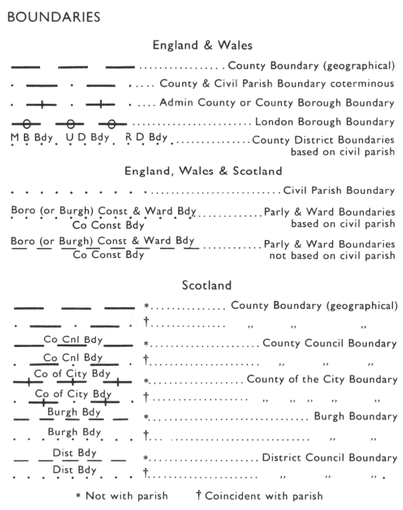


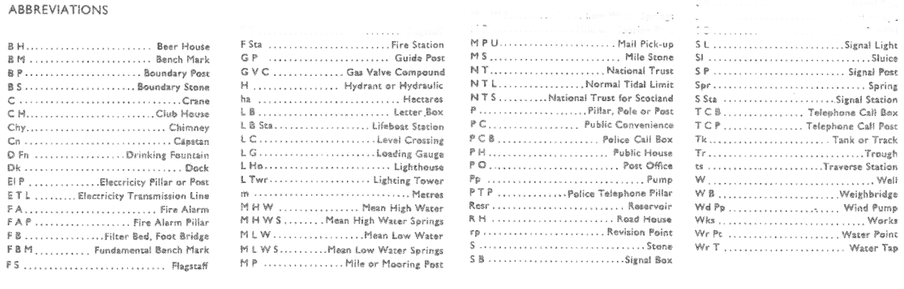




National Grid 1:2,500 / 1:1,250 scale







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Historical Map Pack Legend

County Series

1:1,250 scale

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County Series & National Grid

1:2,500 scale

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