

PORT OF TILBURY, TILBURY FREEPORT, TILBURY, RM18 7HA

Order Details

Date: 04/07/2023
Your ref: C5441-4339-SD
Our Ref: BRO-SQF-W2P-N9C-2NF

Site Details

Location: 563067 175910
Area: 5.64 ha
Authority: [Thurrock Council](#) ↗



[Summary of findings](#)

[p. 2 >](#)

[Aerial image](#)

[p. 9 >](#)

[OS MasterMap site plan](#)

[p.14 >](#)

groundsure.com/insightuserguide ↗

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 >	29	7	24	44	-
19 >	1.2 >	Historical tanks >	0	0	0	7	-
20 >	1.3 >	Historical energy features >	0	0	1	2	-
20	1.4	Historical petrol stations	0	0	0	0	-
21	1.5	Historical garages	0	0	0	0	-
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 >	53	12	48	79	-
29 >	2.2 >	Historical tanks >	0	0	0	10	-
30 >	2.3 >	Historical energy features >	0	0	3	3	-
31	2.4	Historical petrol stations	0	0	0	0	-
31	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
32	3.1	Active or recent landfill	0	0	0	0	-
32	3.2	Historical landfill (BGS records)	0	0	0	0	-
33	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
33	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
33 >	3.5 >	Historical waste sites >	0	0	2	2	-
34 >	3.6 >	Licensed waste sites >	0	1	9	19	-
43 >	3.7 >	Waste exemptions >	0	1	3	16	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
46 >	4.1 >	Recent industrial land uses >	0	4	21	-	-
48 >	4.2 >	Current or recent petrol stations >	0	0	0	1	-
48	4.3	Electricity cables	0	0	0	0	-
49	4.4	Gas pipelines	0	0	0	0	-
49	4.5	Sites determined as Contaminated Land	0	0	0	0	-



49 >	4.6 >	<u>Control of Major Accident Hazards (COMAH) ></u>	2	0	0	0	-
49	4.7	Regulated explosive sites	0	0	0	0	-
50 >	4.8 >	<u>Hazardous substance storage/usage ></u>	0	0	1	0	-
50	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
50 >	4.10 >	<u>Licensed industrial activities (Part A(1)) ></u>	3	0	0	4	-
52	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
52 >	4.12 >	<u>Radioactive Substance Authorisations ></u>	0	0	0	1	-
52	4.13	Licensed Discharges to controlled waters	0	0	0	0	-
53	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
53	4.15	Pollutant release to public sewer	0	0	0	0	-
53	4.16	List 1 Dangerous Substances	0	0	0	0	-
53	4.17	List 2 Dangerous Substances	0	0	0	0	-
53 >	4.18 >	<u>Pollution Incidents (EA/NRW) ></u>	0	0	2	1	-
54	4.19	Pollution inventory substances	0	0	0	0	-
54	4.20	Pollution inventory waste transfers	0	0	0	0	-
54	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	<u>Hydrogeology ></u>	On site	0-50m	50-250m	250-500m	500-2000m
55 >	5.1 >	<u>Superficial aquifer ></u>	Identified (within 500m)				
56 >	5.2 >	<u>Bedrock aquifer ></u>	Identified (within 500m)				
57 >	5.3 >	<u>Groundwater vulnerability ></u>	Identified (within 50m)				
58 >	5.4 >	<u>Groundwater vulnerability- soluble rock risk ></u>	Identified (within 0m)				
59 >	5.5 >	<u>Groundwater vulnerability- local information ></u>	Identified (within 0m)				
60 >	5.6 >	<u>Groundwater abstractions ></u>	0	0	0	0	9
63 >	5.7 >	<u>Surface water abstractions ></u>	0	0	0	0	1
63	5.8	Potable abstractions	0	0	0	0	0
63	5.9	Source Protection Zones	0	0	0	0	-
64	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	<u>Hydrology ></u>	On site	0-50m	50-250m	250-500m	500-2000m
65 >	6.1 >	<u>Water Network (OS MasterMap) ></u>	0	0	1	-	-

66 >	6.2 >	Surface water features >	1	1	0	-	-
66 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
66 >	6.4 >	WFD Surface water bodies >	1	0	0	-	-
67 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
68 >	7.1 >	Risk of flooding from rivers and the sea >	Very Low (within 50m)				
69	7.2	Historical Flood Events	0	0	0	-	-
69	7.3	Flood Defences	0	0	0	-	-
69 >	7.4 >	Areas Benefiting from Flood Defences >	2	0	0	-	-
70	7.5	Flood Storage Areas	0	0	0	-	-
71 >	7.6 >	Flood Zone 2 >	Identified (within 50m)				
72 >	7.7 >	Flood Zone 3 >	Identified (within 50m)				
Page	Section	Surface water flooding >					
73 >	8.1 >	Surface water flooding >	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
75 >	9.1 >	Groundwater flooding >	High (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
76 >	10.1 >	Sites of Special Scientific Interest (SSSI) >	0	0	0	0	1
77	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
77	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
77	10.4	Special Protection Areas (SPA)	0	0	0	0	0
77	10.5	National Nature Reserves (NNR)	0	0	0	0	0
78	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
78	10.7	Designated Ancient Woodland	0	0	0	0	0
78	10.8	Biosphere Reserves	0	0	0	0	0
78	10.9	Forest Parks	0	0	0	0	0
79	10.10	Marine Conservation Zones	0	0	0	0	0
79 >	10.11 >	Green Belt >	0	0	0	0	1
79	10.12	Proposed Ramsar sites	0	0	0	0	0



79	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
80	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
80	10.15	Nitrate Sensitive Areas	0	0	0	0	0
80 >	10.16 >	Nitrate Vulnerable Zones >	0	0	0	0	1
81 >	10.17 >	SSSI Impact Risk Zones >	1	-	-	-	-
82 >	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
86	11.1	World Heritage Sites	0	0	0	-	-
86	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
86	11.3	National Parks	0	0	0	-	-
86	11.4	Listed Buildings	0	0	0	-	-
87	11.5	Conservation Areas	0	0	0	-	-
87	11.6	Scheduled Ancient Monuments	0	0	0	-	-
87	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
88 >	12.1 >	Agricultural Land Classification >	Non Agricultural (within 250m)				
89	12.2	Open Access Land	0	0	0	-	-
89	12.3	Tree Felling Licences	0	0	0	-	-
89	12.4	Environmental Stewardship Schemes	0	0	0	-	-
89	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
90	13.1	Priority Habitat Inventory	0	0	0	-	-
90 >	13.2 >	Habitat Networks >	0	0	1	-	-
91	13.3	Open Mosaic Habitat	0	0	0	-	-
91	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
92 >	14.1 >	10k Availability >	Identified (within 500m)				
93 >	14.2 >	Artificial and made ground (10k) >	1	0	0	0	-
94 >	14.3 >	Superficial geology (10k) >	1	0	0	1	-



95	14.4	Landslip (10k)	0	0	0	0	-
96 >	14.5 >	Bedrock geology (10k) >	1	0	0	0	-
97	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
98 >	15.1 >	50k Availability >	Identified (within 500m)				
99 >	15.2 >	Artificial and made ground (50k) >	1	0	0	0	-
100 >	15.3 >	Artificial ground permeability (50k) >	1	0	-	-	-
101 >	15.4 >	Superficial geology (50k) >	1	0	0	1	-
102 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
102	15.6	Landslip (50k)	0	0	0	0	-
102	15.7	Landslip permeability (50k)	None (within 50m)				
103 >	15.8 >	Bedrock geology (50k) >	1	0	0	0	-
104 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
104	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
105 >	16.1 >	BGS Boreholes >	1	3	24	-	-
Page	Section	Natural ground subsidence >					
107 >	17.1 >	Shrink swell clays >	Low (within 50m)				
108 >	17.2 >	Running sands >	Low (within 50m)				
110 >	17.3 >	Compressible deposits >	High (within 50m)				
112 >	17.4 >	Collapsible deposits >	Negligible (within 50m)				
113 >	17.5 >	Landslides >	Very low (within 50m)				
114 >	17.6 >	Ground dissolution of soluble rocks >	Negligible (within 50m)				
Page	Section	Mining and ground workings >	On site	0-50m	50-250m	250-500m	500-2000m
116 >	18.1 >	BritPits >	0	0	1	0	-
117 >	18.2 >	Surface ground workings >	32	23	36	-	-
120	18.3	Underground workings	0	0	0	0	0
120	18.4	Underground mining extents	0	0	0	0	-
121	18.5	Historical Mineral Planning Areas	0	0	0	0	-

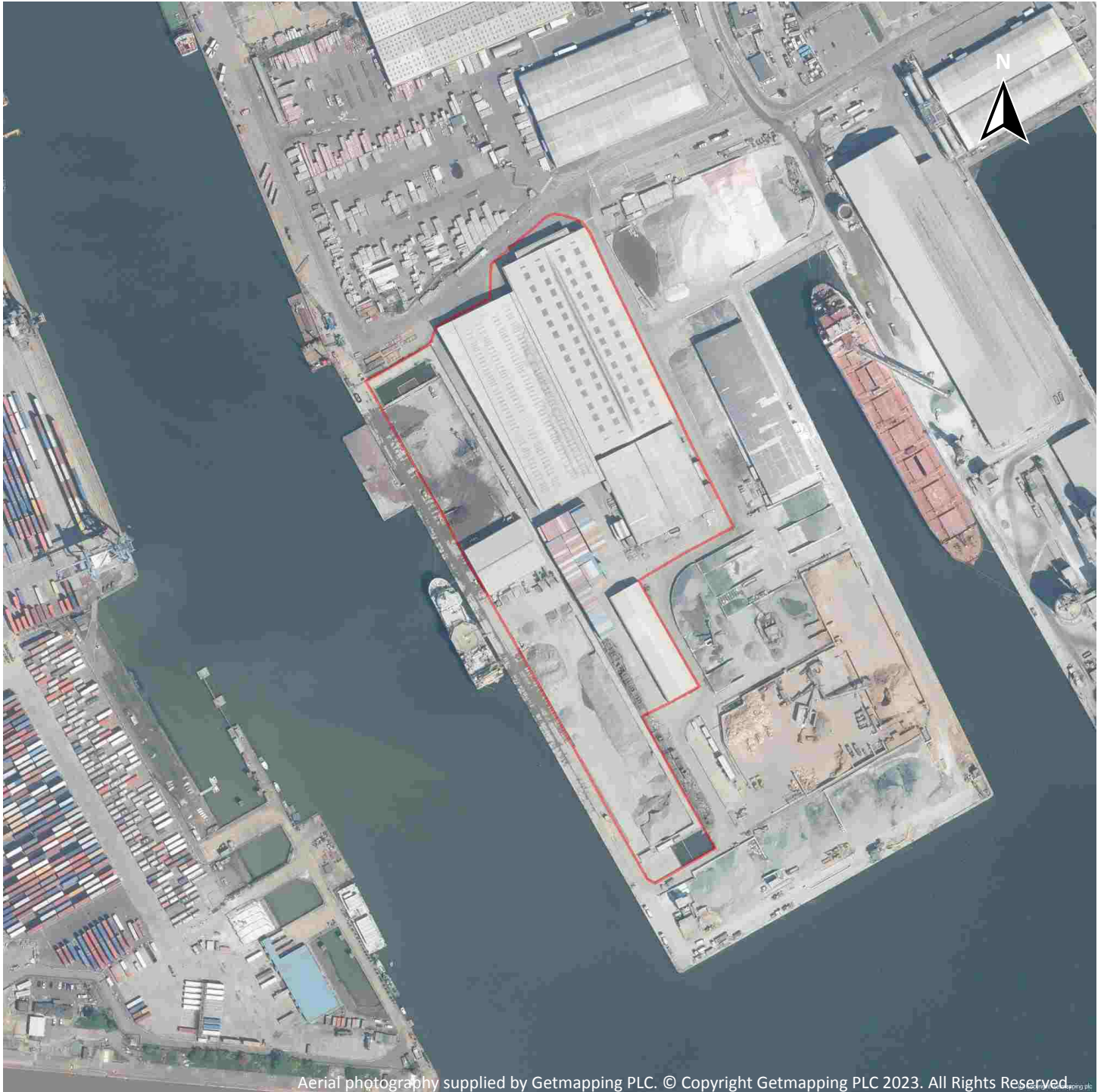


121	18.6	Non-coal mining	0	0	0	0	0
121	18.7	JPB mining areas	None (within 0m)				
121	18.8	The Coal Authority non-coal mining	0	0	0	0	-
122	18.9	Researched mining	0	0	0	0	-
122	18.10	Mining record office plans	0	0	0	0	-
122	18.11	BGS mine plans	0	0	0	0	-
122	18.12	Coal mining	None (within 0m)				
122	18.13	Brine areas	None (within 0m)				
123	18.14	Gypsum areas	None (within 0m)				
123	18.15	Tin mining	None (within 0m)				
123	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
124	19.1	Natural cavities	0	0	0	0	-
124	19.2	Mining cavities	0	0	0	0	0
124	19.3	Reported recent incidents	0	0	0	0	-
124	19.4	Historical incidents	0	0	0	0	-
125	19.5	National karst database	0	0	0	0	-
Page	Section	Radon >					
126 >	20.1 >	Radon >	Less than 1% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
128 >	21.1 >	BGS Estimated Background Soil Chemistry >	6	0	-	-	-
128	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
129	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
130	22.1	Underground railways (London)	0	0	0	-	-
130	22.2	Underground railways (Non-London)	0	0	0	-	-
131	22.3	Railway tunnels	0	0	0	-	-
131 >	22.4 >	Historical railway and tunnel features >	18	10	25	-	-
133	22.5	Royal Mail tunnels	0	0	0	-	-



133	22.6	Historical railways	0	0	0	-	-
133	22.7	Railways	0	0	0	-	-
134	22.8	Crossrail 1	0	0	0	0	-
134	22.9	Crossrail 2	0	0	0	0	-
134	22.10	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 31/05/2021

Site Area: 5.64ha



Recent site history - 2015 aerial photograph



Capture Date: 30/06/2015

Site Area: 5.64ha



Recent site history - 2012 aerial photograph



Capture Date: 25/05/2012

Site Area: 5.64ha



Recent site history - 2009 aerial photograph

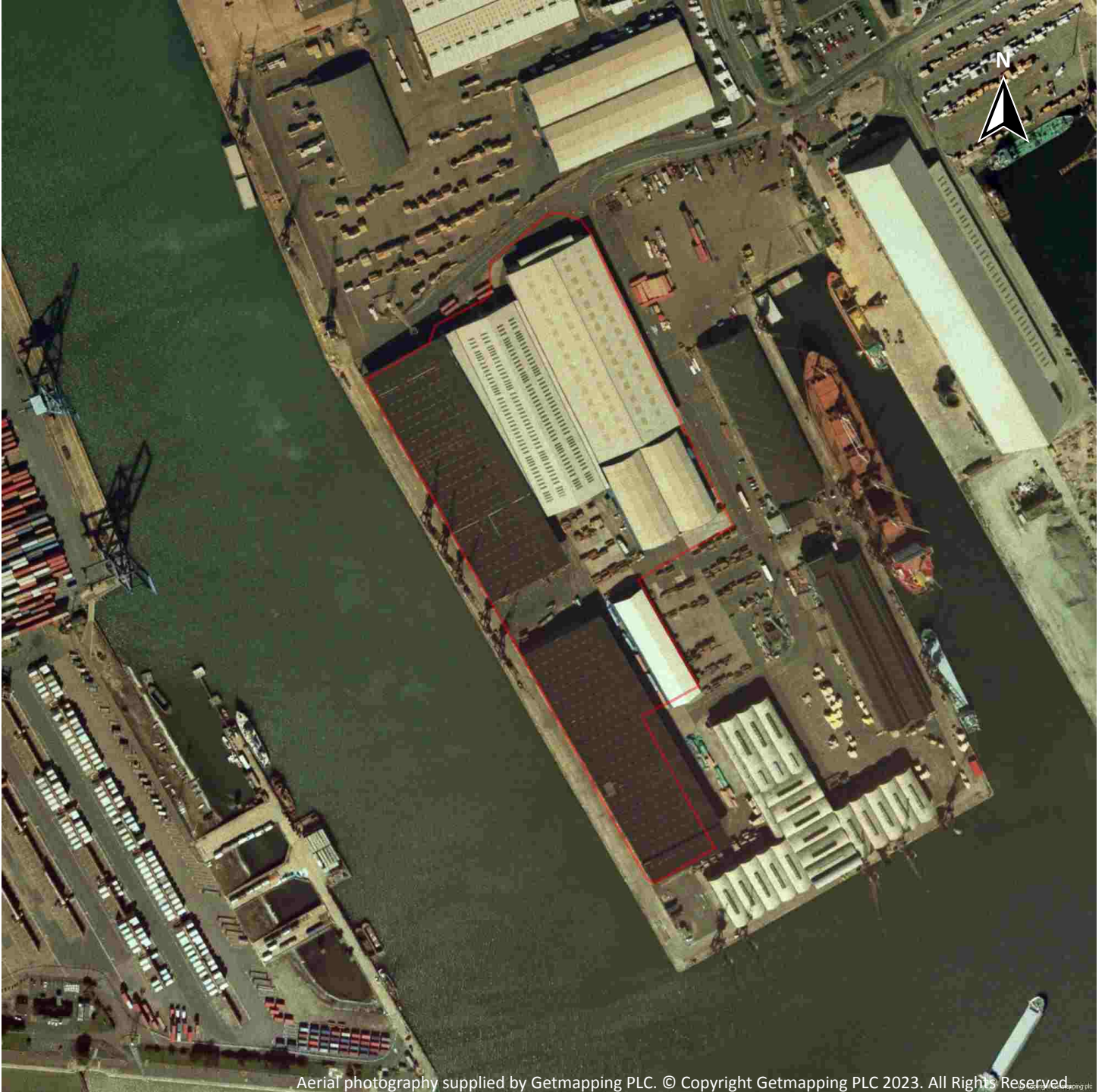


Capture Date: 27/09/2009

Site Area: 5.64ha



Recent site history - 1999 aerial photograph

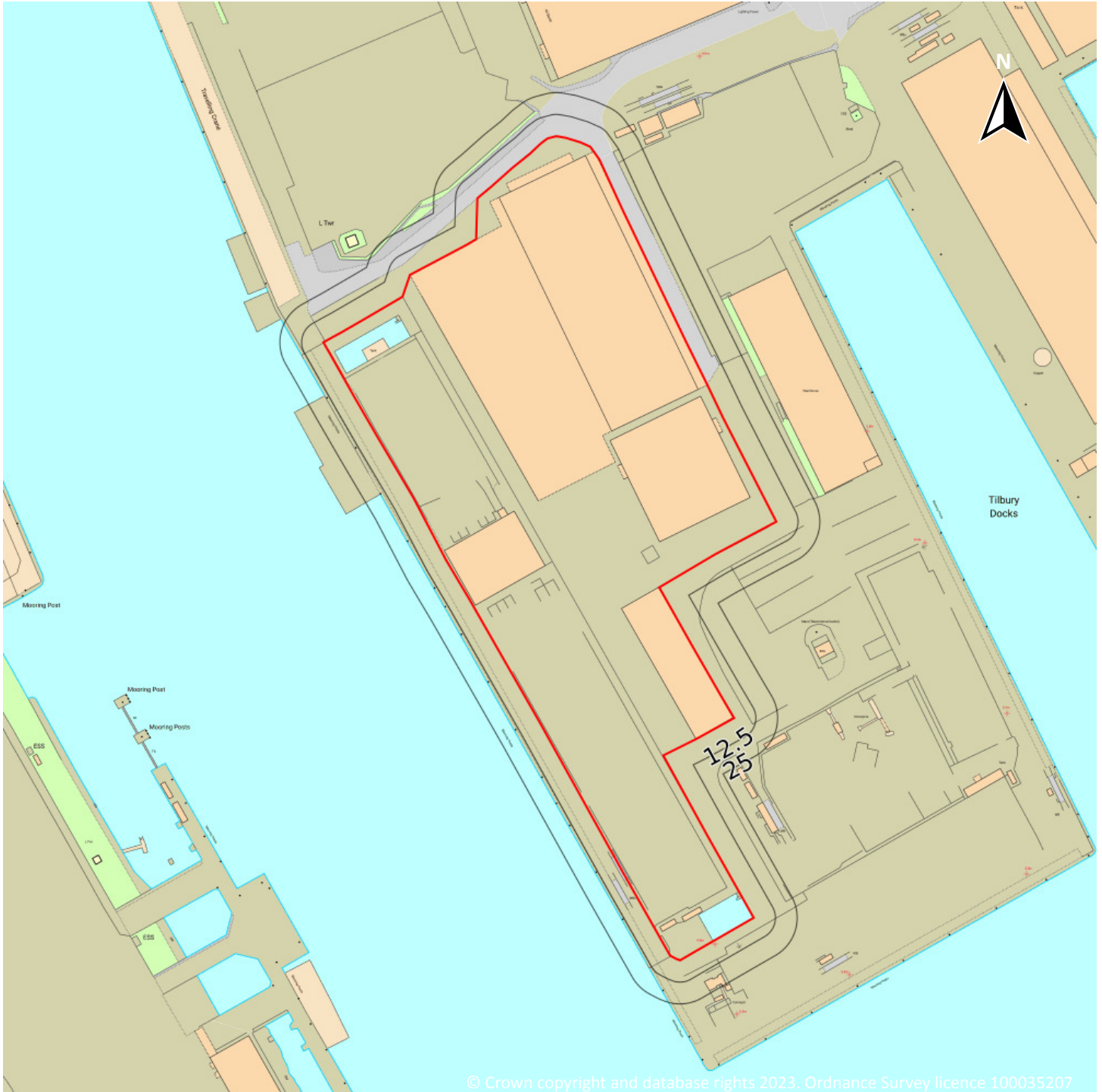


Capture Date: 03/09/1999

Site Area: 5.64ha



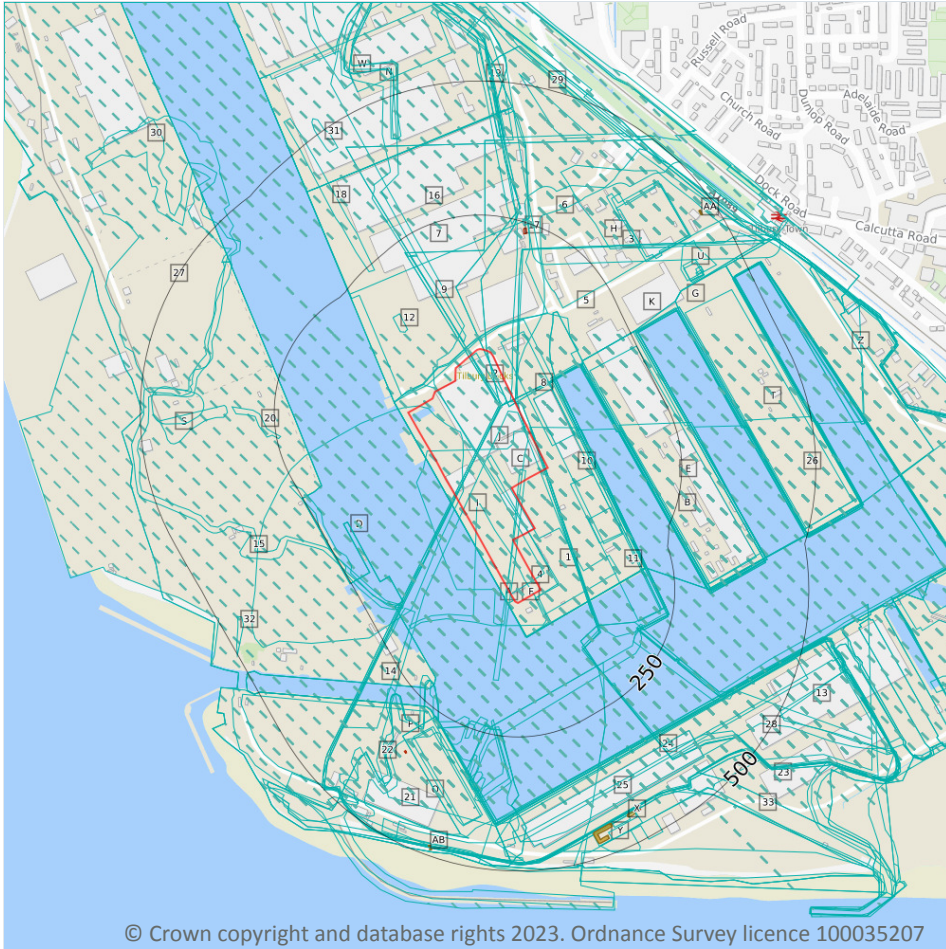
OS MasterMap site plan






Site Area: 5.64ha



1 Past land use



- Site Outline
- Search buffers in metres (m)
-  Historical industrial land uses
-  Historical tanks
-  Historical energy features

© Crown copyright and database rights 2023. Ordnance Survey licence 100035207

1.1 Historical industrial land uses

Records within 500m

104

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 Warehouse	1966	2138637



ID	Location	Land use	Dates present	Group ID
2	On site	Refuse Heap	1946	2158922
3	On site	Unspecified Dock	1898	2171221
4	On site	Docks	1932 - 1946	2190380
5	On site	Docks	1895	2193641
6	On site	Railway Sidings	1966	2232404
A	On site	Unspecified Pits	1955	2141811
A	On site	Unspecified Heap	1938	2231720
B	On site	Docks	1916	2168808
B	On site	Docks	1907	2168809
B	On site	Railway Sidings	1863 - 1947	2209400
B	On site	Dock	1895	2211551
C	On site	Unspecified Warehouses	1993	2169442
C	On site	Unspecified Warehouses	1973	2235237
D	On site	Unspecified Pit	1955 - 1966	2173834
E	On site	Unspecified Docks	1888	2175886
E	On site	Unspecified Docks	1898	2284513
F	On site	Dock	1923	2189799
F	On site	Railway Sidings	1923	2285273
G	On site	Railway Sidings	1955	2201696
G	On site	Docks	1955	2216389
H	On site	Unspecified Commercial/Industrial	1923	2204401
H	On site	Railway Sidings	1923	2223001
I	On site	Unspecified Docks	1898	2205981
I	On site	Unspecified Warehouses	1982 - 1992	2254706
J	On site	Unspecified Disused Wharf	1973 - 1982	2225872
J	On site	Dock	1993	2236786
J	On site	Docks	1982	2275598
K	On site	Railway Sidings	1888 - 1898	2270828



ID	Location	Land use	Dates present	Group ID
C	13m SW	Docks	1992	2225006
C	13m SW	Dock	1993	2252368
C	13m SW	Dock	1973	2279361
7	14m N	Unspecified Warehouse	1993	2295266
8	24m N	Unspecified Warehouses	1955 - 1966	2223057
9	27m N	Refuse Heap	1946	2158921
10	33m E	Unspecified Warehouses	1982 - 1992	2177095
B	52m E	Unspecified Warehouses	1966	2274668
B	78m E	Railway Sidings	1898	2214185
B	78m E	Railway Sidings	1898	2271034
11	102m SE	Unspecified Warehouses	1955	2249537
12	115m NW	Cuttings	1955 - 1966	2175778
13	121m SE	Dock	1895	2268647
L	143m NE	Dock	1923	2232038
L	143m NE	Railway Sidings	1923	2293683
L	151m NE	Unspecified Warehouses	1955 - 1993	2249080
K	156m E	Dock	1895	2225420
M	158m NE	Unspecified Works	1973 - 1993	2272101
14	172m SW	Cuttings	1938	2129958
15	186m SW	Refuse Heap	1946	2158920
D	186m SW	Unspecified Ground Workings	1966	2134382
16	187m N	Unspecified Warehouse	1973 - 1992	2170154
M	190m N	Unspecified Commercial/Industrial	1947	2286784
N	207m N	Refuse	1947	2135497
O	215m S	Unspecified Ground Workings	1895	2251248
P	215m S	Unspecified Ground Workings and Heaps	1888	2142704
O	216m S	Unspecified Ground Workings	1907	2187502
O	216m S	Unspecified Ground Workings	1895	2293121



ID	Location	Land use	Dates present	Group ID
18	238m NW	Cuttings	1955 - 1966	2224104
19	240m N	Refuse	1947	2135498
20	242m W	Unspecified Pit	1955 - 1966	2197532
21	255m S	Railway Sidings	1955 - 1966	2267789
Q	260m S	Dock	1938 - 1946	2231073
Q	260m S	Railway Sidings	1946	2249066
22	262m S	Unspecified Warehouses	1982 - 1993	2219206
O	279m S	Unspecified Warehouses	1973	2190254
O	284m S	Unspecified Warehouse	1955 - 1966	2196625
M	295m NE	Unspecified Commercial/Industrial	1888 - 1895	2184377
23	335m S	Docks	1938	2216390
M	336m NE	Engineer's Shops	1916	2141477
R	337m S	Docks	1938	2241910
S	337m W	Unspecified Pit	1955 - 1966	2259209
M	338m NE	Unspecified Commercial/Industrial	1907	2241131
M	341m NE	Unspecified Commercial/Industrial	1895	2284105
R	344m S	Dock	1923	2240684
R	344m S	Railway Sidings	1923	2292550
24	347m S	Unspecified Warehouses	1955 - 1966	2210892
T	350m NE	Railway Sidings	1923	2215454
T	350m NE	Dock	1923	2286147
T	358m NE	Unspecified Warehouses	1955 - 1993	2178873
25	365m SE	Unspecified Warehouse	1982 - 1993	2218094
26	378m E	Dock	1895	2272957
S	382m W	Unspecified Wharf	1865	2157331
27	383m W	Unspecified Ground Workings	1955 - 1966	2256111
28	384m S	Railway Sidings	1938	2169619
U	386m NE	Police Station	1955 - 1966	2170027



ID	Location	Land use	Dates present	Group ID
U	391m NE	Police Station	1932 - 1946	2253416
U	392m NE	Police Station	1916	2228307
N	393m N	Unspecified Warehouse	1973 - 1982	2196234
N	393m N	Unspecified Warehouse	1992 - 1993	2238781
U	395m NE	Police Station	1923	2216373
V	396m N	Gravel Pit	1938	2139089
29	397m N	Railway Sidings	1923 - 1938	2243805
V	398m N	Refuse Heap	1938	2158924
U	411m NE	Police Station	1938	2169872
W	419m N	Refuse Heap	1938	2258270
W	421m N	Gravel Pit	1938	2139088
30	434m NW	Refuse	1947	2135494
Y	442m SE	Unspecified Depot	1982 - 1992	2222304
Y	442m SE	Unspecified Tanks	1982 - 1992	2255043
31	458m NW	Cuttings	1955 - 1966	2236235
32	458m SW	Unspecified Ground Workings	1966	2134379
Z	465m NE	Railway Sidings	1923	2172605
Z	465m NE	Dock	1923	2213936
33	472m SE	Unspecified Depot	1973	2261272

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

7

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

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



ID	Location	Land use	Dates present	Group ID
X	444m S	Tanks	1966 - 1974	407284
Y	446m S	Unspecified Tank	1970	368821
Y	446m S	Tanks	1966 - 1974	394599
AA	469m NE	Unspecified Tank	1971 - 1984	406741
AA	469m NE	Unspecified Tank	1971	393261
AB	481m S	Unspecified Tank	1898	368819
AB	486m S	Tank or Trough	1898	379963

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	3
----------------------------	----------

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

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

ID	Location	Land use	Dates present	Group ID
17	229m N	Electricity Substation	1984 - 1998	270726
P	345m S	Electricity Substation	1950 - 1951	277830
X	441m SE	Electricity Substation	1974	248057

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

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

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

This data is sourced from Ordnance Survey / Groundsure.



1.5 Historical garages

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

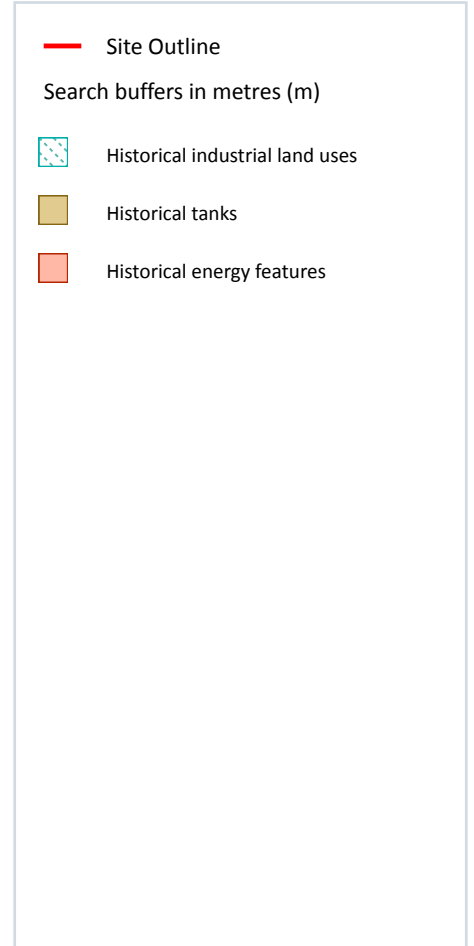
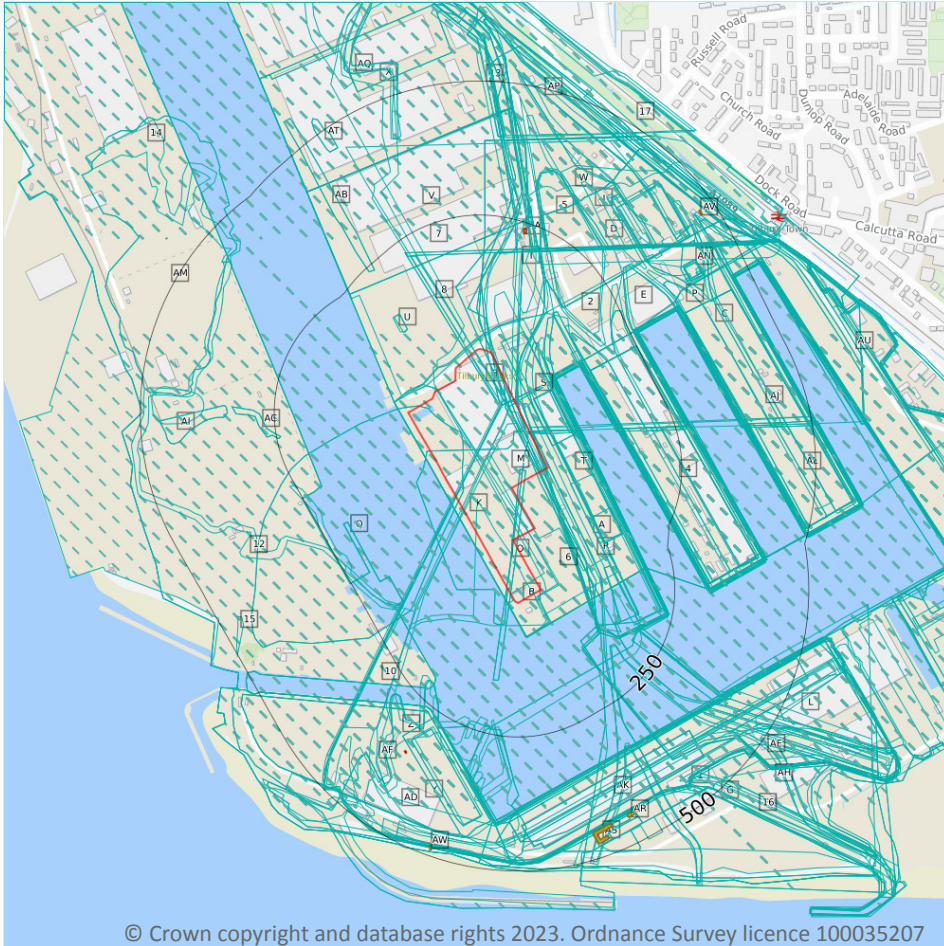
0

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	192
----------------------------	------------

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	Railway Sidings	1895	2270828
2	On site	Railway Sidings	1946	2209400
3	On site	Refuse Heap	1946	2158922

ID	Location	Land Use	Date	Group ID
4	On site	Unspecified Docks	1888	2175886
5	On site	Railway Sidings	1966	2232404
6	On site	Unspecified Warehouse	1966	2138637
A	On site	Dock	1895	2211551
A	On site	Railway Sidings	1932	2209400
A	On site	Docks	1932	2190380
A	On site	Docks	1916	2168808
A	On site	Railway Sidings	1938	2209400
B	On site	Dock	1923	2189799
B	On site	Railway Sidings	1923	2285273
C	On site	Docks	1895	2193641
C	On site	Docks	1938	2190380
C	On site	Railway Sidings	1938	2209400
C	On site	Railway Sidings	1938	2209400
C	On site	Docks	1938	2190380
C	On site	Docks	1938	2190380
D	On site	Railway Sidings	1923	2223001
D	On site	Unspecified Commercial/Industrial	1923	2204401
E	On site	Railway Sidings	1895	2270828
E	On site	Unspecified Dock	1898	2171221
E	On site	Unspecified Dock	1898	2171221
F	On site	Docks	1946	2190380
F	On site	Docks	1938	2190380
F	On site	Docks	1938	2190380
G	On site	Railway Sidings	1907	2209400
G	On site	Railway Sidings	1895	2270828
H	On site	Docks	1907	2168809
H	On site	Docks	1895	2193641



ID	Location	Land Use	Date	Group ID
I	On site	Railway Sidings	1916	2209400
J	On site	Railway Sidings	1898	2270828
J	On site	Railway Sidings	1898	2270828
K	On site	Unspecified Docks	1898	2205981
K	On site	Unspecified Docks	1898	2205981
K	On site	Unspecified Warehouses	1982	2254706
K	On site	Unspecified Warehouses	1992	2254706
L	On site	Unspecified Dock	1898	2171221
L	On site	Unspecified Dock	1898	2171221
M	On site	Unspecified Warehouses	1993	2169442
M	On site	Unspecified Warehouses	1973	2235237
N	On site	Dock	1993	2236786
N	On site	Docks	1982	2275598
N	On site	Unspecified Disused Wharf	1982	2225872
N	On site	Unspecified Disused Wharf	1973	2225872
O	On site	Unspecified Heap	1938	2231720
O	On site	Unspecified Pits	1955	2141811
O	On site	Unspecified Heap	1938	2231720
P	On site	Railway Sidings	1955	2201696
P	On site	Docks	1955	2216389
Q	On site	Unspecified Pit	1955	2173834
Q	On site	Unspecified Pit	1966	2173834
I	3m E	Railway Sidings	1888	2270828
R	3m E	Railway Sidings	1898	2270828
R	3m E	Railway Sidings	1898	2270828
M	13m SW	Dock	1993	2252368
M	13m SW	Dock	1973	2279361
M	13m SW	Docks	1992	2225006



ID	Location	Land Use	Date	Group ID
7	14m N	Unspecified Warehouse	1993	2295266
S	24m N	Unspecified Warehouses	1955	2223057
S	24m N	Unspecified Warehouses	1966	2223057
8	27m N	Refuse Heap	1946	2158921
T	33m E	Unspecified Warehouses	1992	2177095
T	33m E	Unspecified Warehouses	1982	2177095
A	52m E	Unspecified Warehouses	1966	2274668
A	78m E	Railway Sidings	1898	2214185
A	78m E	Railway Sidings	1898	2271034
A	102m SE	Unspecified Warehouses	1955	2249537
U	115m NW	Cuttings	1966	2175778
U	116m NW	Cuttings	1955	2175778
9	121m SE	Dock	1895	2268647
I	143m NE	Dock	1923	2232038
I	143m NE	Railway Sidings	1923	2293683
I	151m NE	Unspecified Warehouses	1993	2249080
I	151m NE	Unspecified Warehouses	1982	2249080
I	151m NE	Unspecified Warehouses	1973	2249080
I	151m NE	Unspecified Warehouses	1992	2249080
I	151m NE	Unspecified Warehouses	1955	2249080
I	151m NE	Unspecified Warehouses	1966	2249080
I	155m E	Unspecified Dock	1898	2171221
I	155m E	Railway Sidings	1898	2270828
I	155m E	Unspecified Dock	1898	2171221
I	155m E	Railway Sidings	1898	2270828
I	156m E	Dock	1895	2225420
J	158m NE	Unspecified Works	1993	2272101
J	158m NE	Unspecified Works	1982	2272101



ID	Location	Land Use	Date	Group ID
J	158m NE	Unspecified Works	1973	2272101
J	158m NE	Unspecified Works	1992	2272101
10	172m SW	Cuttings	1938	2129958
11	181m N	Railway Sidings	1947	2209400
12	186m SW	Refuse Heap	1946	2158920
Q	186m SW	Unspecified Ground Workings	1966	2134382
V	187m N	Unspecified Warehouse	1982	2170154
V	187m N	Unspecified Warehouse	1973	2170154
V	187m N	Unspecified Warehouse	1992	2170154
J	190m N	Unspecified Commercial/Industrial	1947	2286784
W	192m N	Docks	1938	2190380
W	192m N	Docks	1938	2190380
W	203m N	Railway Sidings	1907	2209400
W	203m N	Railway Sidings	1895	2270828
W	204m N	Railway Sidings	1938	2209400
X	207m N	Refuse	1947	2135497
W	208m N	Railway Sidings	1888	2270828
Y	215m S	Unspecified Ground Workings	1895	2251248
Z	215m S	Unspecified Ground Workings and Heaps	1888	2142704
Y	216m S	Unspecified Ground Workings	1907	2187502
Y	216m S	Unspecified Ground Workings	1895	2293121
AB	238m NW	Cuttings	1955	2224104
AB	238m NW	Cuttings	1966	2224104
13	240m N	Refuse	1947	2135498
AC	242m W	Unspecified Pit	1955	2197532
AC	242m W	Unspecified Pit	1966	2197532
AD	255m S	Railway Sidings	1955	2267789
AD	255m S	Railway Sidings	1966	2267789



ID	Location	Land Use	Date	Group ID
AE	260m S	Railway Sidings	1946	2249066
AE	260m S	Dock	1946	2231073
AF	262m S	Unspecified Warehouses	1993	2219206
AF	262m S	Unspecified Warehouses	1982	2219206
AF	262m S	Unspecified Warehouses	1992	2219206
Y	279m S	Unspecified Warehouses	1973	2190254
Y	284m S	Unspecified Warehouse	1955	2196625
Y	284m S	Unspecified Warehouse	1966	2196625
J	295m NE	Unspecified Commercial/Industrial	1888	2184377
AG	335m S	Dock	1938	2231073
AH	335m S	Docks	1938	2216390
AH	335m S	Docks	1938	2216390
J	336m NE	Engineer's Shops	1916	2141477
AG	337m S	Docks	1938	2241910
AG	337m S	Docks	1938	2241910
AI	337m W	Unspecified Pit	1955	2259209
AI	337m W	Unspecified Pit	1966	2259209
J	338m NE	Unspecified Commercial/Industrial	1907	2241131
J	338m NE	Unspecified Commercial/Industrial	1895	2184377
J	341m NE	Unspecified Commercial/Industrial	1895	2284105
AG	344m S	Dock	1923	2240684
AG	344m S	Railway Sidings	1923	2292550
AE	347m S	Unspecified Warehouses	1955	2210892
AE	347m S	Unspecified Warehouses	1966	2210892
AJ	350m NE	Dock	1923	2286147
AJ	350m NE	Railway Sidings	1923	2215454
AJ	358m NE	Unspecified Warehouses	1993	2178873
AJ	358m NE	Unspecified Warehouses	1982	2178873



ID	Location	Land Use	Date	Group ID
AJ	358m NE	Unspecified Warehouses	1973	2178873
AJ	358m NE	Unspecified Warehouses	1992	2178873
AJ	358m NE	Unspecified Warehouses	1955	2178873
AJ	358m NE	Unspecified Warehouses	1966	2178873
AK	365m SE	Unspecified Warehouse	1993	2218094
AK	365m SE	Unspecified Warehouse	1982	2218094
AK	365m SE	Unspecified Warehouse	1992	2218094
AL	378m E	Dock	1895	2272957
AL	380m E	Unspecified Dock	1898	2171221
AL	380m E	Railway Sidings	1898	2270828
AL	380m E	Unspecified Dock	1898	2171221
AL	380m E	Railway Sidings	1898	2270828
AI	382m W	Unspecified Wharf	1865	2157331
AM	383m W	Unspecified Ground Workings	1955	2256111
AM	383m W	Unspecified Ground Workings	1966	2256111
AG	384m S	Railway Sidings	1938	2169619
AG	384m SE	Railway Sidings	1938	2169619
AN	386m NE	Police Station	1955	2170027
AN	386m NE	Police Station	1966	2170027
AN	391m NE	Police Station	1938	2253416
AN	391m NE	Police Station	1946	2253416
AN	392m NE	Police Station	1938	2253416
AN	392m NE	Police Station	1916	2228307
AN	393m NE	Police Station	1932	2253416
X	393m N	Unspecified Warehouse	1993	2238781
X	393m N	Unspecified Warehouse	1982	2196234
X	393m N	Unspecified Warehouse	1973	2196234
X	393m N	Unspecified Warehouse	1992	2238781



ID	Location	Land Use	Date	Group ID
AN	395m NE	Police Station	1923	2216373
AO	396m N	Gravel Pit	1938	2139089
AP	397m N	Railway Sidings	1923	2243805
AO	398m N	Refuse Heap	1938	2158924
AP	401m N	Railway Sidings	1938	2243805
AP	403m N	Railway Sidings	1938	2243805
AN	411m NE	Police Station	1938	2169872
AQ	419m N	Refuse Heap	1938	2258270
AQ	421m N	Gravel Pit	1938	2139088
14	434m NW	Refuse	1947	2135494
AS	442m SE	Unspecified Tanks	1982	2255043
AS	442m SE	Unspecified Depot	1982	2222304
AS	442m SE	Unspecified Tanks	1992	2255043
AS	442m SE	Unspecified Depot	1992	2222304
AT	458m NW	Cuttings	1955	2236235
AT	458m NW	Cuttings	1966	2236235
15	458m SW	Unspecified Ground Workings	1966	2134379
AU	465m NE	Dock	1923	2213936
AU	465m NE	Railway Sidings	1923	2172605
16	472m SE	Unspecified Depot	1973	2261272
17	476m NE	Railway Sidings	1923	2243805

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

10

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
AR	444m S	Tanks	1974	407284
AR	444m S	Tanks	1966	407284
AS	446m S	Unspecified Tank	1970	368821
AS	446m S	Tanks	1974	394599
AS	446m S	Tanks	1966	394599
AV	469m NE	Unspecified Tank	1984	406741
AV	469m NE	Unspecified Tank	1971	393261
AV	470m NE	Unspecified Tank	1971	406741
AW	481m S	Unspecified Tank	1898	368819
AW	486m S	Tank or Trough	1898	379963

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

6

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
AA	229m N	Electricity Substation	1998	270726
AA	229m N	Electricity Substation	1993	270726
AA	230m N	Electricity Substation	1984	270726
Z	345m S	Electricity Substation	1951	277830
Z	345m S	Electricity Substation	1950	277830
AR	441m SE	Electricity Substation	1974	248057

This data is sourced from Ordnance Survey / Groundsure.



2.4 Historical petrol stations

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m

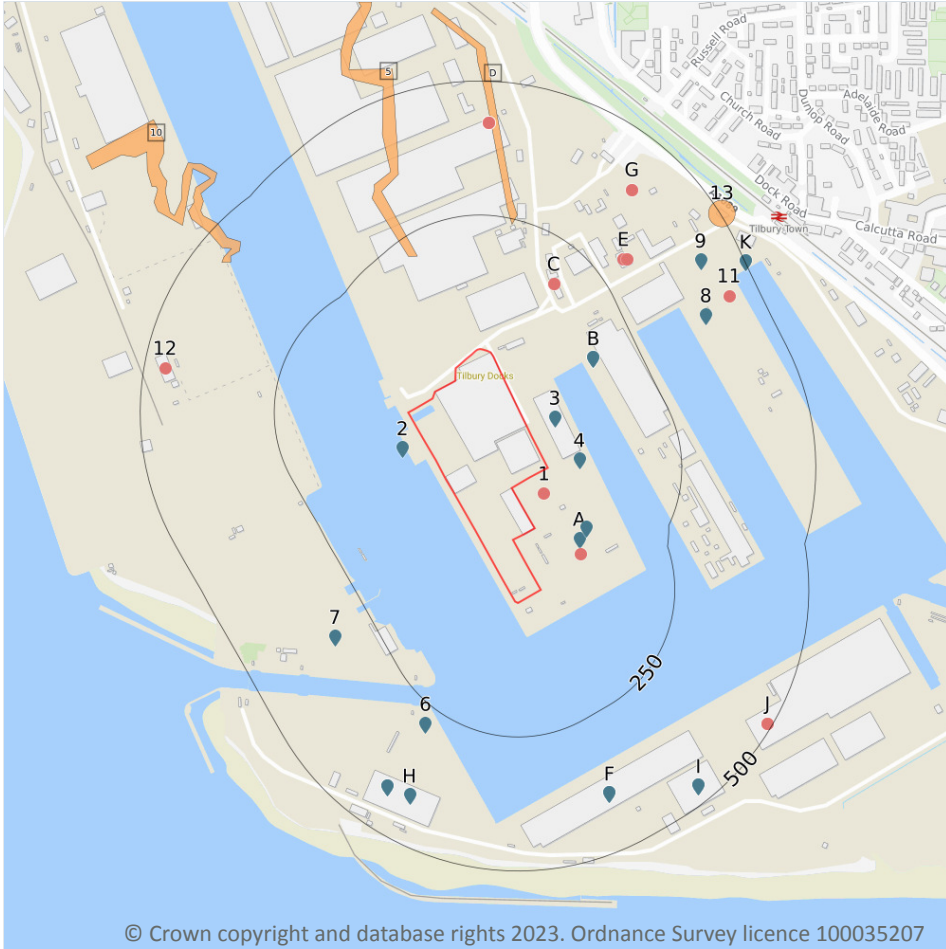
0

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'.

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



© Crown copyright and database rights 2023. Ordnance Survey licence 100035207

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

4

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

Features are displayed on the Waste and landfill map on [page 32 >](#)

ID	Location	Address	Further Details	Date
5	207m N	Site Address: N/A	Type of Site: Refuse Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1864
D	239m N	Site Address: N/A	Type of Site: Refuse Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1864
10	434m NW	Site Address: N/A	Type of Site: Refuse Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1864

ID	Location	Address	Further Details	Date
13	477m NE	Site Address: Thames House, St Andrews Road, Tilbury, Essex, RM18 7EH	Type of Site: Waste Transfer Station Planning application reference: 18/01430/FUL Description: Scheme comprises change of use from light industrial to sui-generis transfer station and temporary storage of asbestos waste. Data source: Historic Planning Application Data Type: Point	01/10/2018

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

3.6 Licensed waste sites

Records within 500m	29
----------------------------	-----------

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

Features are displayed on the Waste and landfill map on [page 32 >](#)

ID	Location	Details		
2	43m W	Site Name: Tilbury I B A Facility Site Address: Port Of Tilbury, Berth 36-38, Tilbury, Essex, RM18 7EH Correspondence Address: -	Type of Site: Material Recycling Treatment Facility Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BAL144 EPR reference: EA/EPR/BB3239RD/V003 Operator: Ballast Phoenix Ltd Waste Management licence No: 103206 Annual Tonnage: 275000	Issue Date: 25/06/2012 Effective Date: - Modified: 21/07/2016 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: To PPC
3	52m NE	Site Name: Port Of Tilbury London Ltd Site Address: Leslie Ford House, Tilbury Freeport, Tilbury, Essex, RM18 7EH Correspondence Address: -	Type of Site: Transfer Station taking Non-Biodegradable Wastes Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: POR001 EPR reference: EA/EPR/FB3805KA/A001 Operator: Port Of Tilbury London Ltd Waste Management licence No: 404528 Annual Tonnage: 250000	Issue Date: 29/05/2018 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued



ID	Location	Details		
4	60m E	Site Name: Port Of Tilbury London Ltd Site Address: Leslie Ford House, Tilbury Freeport, Tilbury, Essex, RM18 7EH Correspondence Address: -	Type of Site: Transfer Station taking Non-Biodegradable Wastes Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: POR001 EPR reference: EA/EPR/FB3805KA/A001 Operator: Port Of Tilbury London Ltd Waste Management licence No: 404528 Annual Tonnage: 250000	Issue Date: 29/05/2018 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
A	85m SE	Site Name: Tilbury New Site Site Address: Tilbury Docks, Tilbury, Essex, RM18 7HB Correspondence Address: -	Type of Site: Treatment of waste wood 75000 tps Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: HWR001 EPR reference: EA/EPR/BB3332AE/A001 Operator: Hadfield Wood Recyclers Ltd Waste Management licence No: 103209 Annual Tonnage: 74999	Issue Date: 18/01/2012 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
A	95m SE	Site Name: Tilbury New Site Site Address: Tilbury Docks, Tilbury, Essex, RM18 7HB Correspondence Address: -	Type of Site: Treatment of waste wood 75000 tps Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: HWR001 EPR reference: EA/EPR/BB3332AE/V002 Operator: Enva Wood Recycling Manchester Limited Waste Management licence No: 103209 Annual Tonnage: 199999	Issue Date: 18/01/2012 Effective Date: - Modified: 04/09/2020 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified



ID	Location	Details		
B	166m NE	Site Name: Berth 5, Port Of Tilbury London Site Address: Port Of Tilbury London Limited, Leslie Ford House, Tilbury Freeport, Tilbury, Essex, RM18 7EH Correspondence Address: -	Type of Site: Inert & Excavation WTS Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WAL165 EPR reference: EA/EPR/PB3933DJ/V003 Operator: S Walsh & Son Limited Waste Management licence No: 400251 Annual Tonnage: 249999	Issue Date: 11/04/2013 Effective Date: - Modified: 25/01/2018 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
B	166m NE	Site Name: Berth 5, Port Of Tilbury London Site Address: Leslie Ford House, Tilbury Freeport, Tilbury, Essex, RM18 7EH Correspondence Address: -	Type of Site: Inert & Excavation WTS Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WAL165 EPR reference: EA/EPR/PB3933DJ/A001 Operator: S Walsh And Sons Limited Waste Management licence No: 400251 Annual Tonnage: 0	Issue Date: 11/04/2013 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
B	166m NE	Site Name: Berth 5, Port Of Tilbury London Site Address: Port Of Tilbury London Ltd, Leslie Ford House, Tilbury Freeport, Tilbury, Essex, RM18 7EH Correspondence Address: -	Type of Site: Inert & Excavation WTS Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WAL165 EPR reference: EA/EPR/PB3933DJ/V002 Operator: S Walsh And Son Limited Waste Management licence No: 400251 Annual Tonnage: 249999	Issue Date: 11/04/2013 Effective Date: - Modified: 08/11/2013 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
B	166m NE	Site Name: Berth 5, Port Of Tilbury London Site Address: Port Of Tilbury London Limited, Leslie Ford House, Tilbury Freeport, Tilbury, Essex, RM18 7EH Correspondence Address: -	Type of Site: Inert & Excavation WTS Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WAL165 EPR reference: EA/EPR/PB3933DJ/V003 Operator: S Walsh & Son Limited Waste Management licence No: 400251 Annual Tonnage: 249999	Issue Date: 11/04/2013 Effective Date: - Modified: 25/01/2018 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified



ID	Location	Details		
B	166m NE	Site Name: Berth 5, Port Of Tilbury London Site Address: Port Of Tilbury London Limited, Leslie Ford House, Tilbury Freeport, Tilbury, Essex, RM18 7EH Correspondence Address: -	Type of Site: Inert & Excavation WTS Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WAL165 EPR reference: EA/EPR/PB3933DJ/V003 Operator: S. Walsh & Son Limited Waste Management licence No: 400251 Annual Tonnage: 249999	Issue Date: 11/04/2013 Effective Date: - Modified: 25/01/2018 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
6	284m S	Site Name: Berth 34 Site Address: Port Of Tilbury London, Tilbury Freeport, RM18 7EH Correspondence Address: -	Type of Site: Physical Treatment Facility Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SWA001 EPR reference: EA/EPR/KB3209CF/A001 Operator: S Walsh & Son Limited Waste Management licence No: 407606 Annual Tonnage: 250000	Issue Date: 08/03/2022 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
7	326m SW	Site Name: Tilbury Point Site Address: Dock Road, Tilbury Point, Tilbury, Essex, RM17 6UR Correspondence Address: -	Type of Site: Deposit of waste to land as a recovery operation Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BSG003 EPR reference: EA/EPR/DB3809KP/A001 Operator: Bournemouth Sand & Gravel Limited Waste Management licence No: 403095 Annual Tonnage: 370	Issue Date: 06/10/2016 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued



ID	Location	Details		
8	389m NE	Site Name: European Metal Recycling Site Address: 13-20 Berth, Tilbury Dock, Tilbury, Essex, RM18 7EH Correspondence Address: -	Type of Site: Metal Recycling Site (mixed MRS's) Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: EUR001 EPR reference: EA/EPR/VP3094NK/V002 Operator: European Metal Recycling Ltd Waste Management licence No: 71484 Annual Tonnage: 300000	Issue Date: 01/04/2008 Effective Date: - Modified: 01/06/2012 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
F	395m S	Site Name: Tilbury Dock Alternative Fuel Storage Facility Site Address: Dockside North Of Sheds 32 And 33, Port Tilbury, Tilbury, Essex, RM18 7NS Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: STU041 EPR reference: EA/EPR/CB3503MG/S002 Operator: Suez Recycling And Recovery U K Ltd Waste Management licence No: 402099 Annual Tonnage: 0	Issue Date: 21/12/2017 Effective Date: - Modified: - Surrendered Date: 05/12/2018 Expiry Date: - Cancelled Date: - Status: Surrendered
F	395m S	Site Name: Tilbury Dock Alternative Fuel Storage Facility Site Address: Sheds 32 And 33, Port Of Tilbury, Tilbury, Essex, RM18 7NS Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SIT806 EPR reference: EA/EPR/ZP3434EU/S004 Operator: Suez Recycling And Recovery Uk Ltd Waste Management licence No: 402083 Annual Tonnage: 0	Issue Date: 30/01/2015 Effective Date: - Modified: - Surrendered Date: 22/11/2018 Expiry Date: - Cancelled Date: - Status: Surrendered



ID	Location	Details		
F	395m S	Site Name: Tilbury Dock Alternative Fuel Storage Facility Site Address: Sheds 32 And 33, Port Of Tilbury, Tilbury, Essex, RM18 7NS Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SIT806 EPR reference: EA/EPR/ZP3434EU/V002 Operator: Sita U K Limited Waste Management licence No: 402083 Annual Tonnage: 179999	Issue Date: 30/01/2015 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
F	395m S	Site Name: Tilbury Dock Alternative Fuel Storage Facility Site Address: Dockside North Of Sheds 32 And 33, Port Tilbury, Tilbury, Essex, RM18 7NS Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: STU041 EPR reference: EA/EPR/CB3503MG/S002 Operator: Suez Recycling And Recovery Uk Ltd Waste Management licence No: 402099 Annual Tonnage: 0	Issue Date: 21/12/2017 Effective Date: - Modified: - Surrendered Date: Dec 5 2018 12:00AM Expiry Date: - Cancelled Date: - Status: Surrendered
F	395m S	Site Name: Tilbury Dock Alternative Fuel Storage Facility Site Address: Dockside North Of Sheds 32 And 33, Port Tilbury, Tilbury, Essex, RM18 7NS Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: STU041 EPR reference: EA/EPR/CB3503MG/S002 Operator: Suez Recycling And Recovery Uk Ltd Waste Management licence No: 402099 Annual Tonnage: 0	Issue Date: 21/12/2017 Effective Date: - Modified: - Surrendered Date: Dec 5 2018 12:00AM Expiry Date: - Cancelled Date: - Status: Surrendered



ID	Location	Details		
H	414m S	Site Name: Tilbury Docks Waste Transfer Station Site Address: Tilbury Docks Waste Transfer Station, Tilbury Freeport, Tilbury, Essex, RM18 7DP Correspondence Address: -	Type of Site: 75kte HCI Waste TS + treatment Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: RRR001 EPR reference: EA/EPR/DB3803LZ/S002 Operator: Riverside Resource Recovery Limited Waste Management licence No: 403050 Annual Tonnage: 0	Issue Date: 15/09/2016 Effective Date: - Modified: - Surrendered Date: 10/10/2019 Expiry Date: - Cancelled Date: - Status: Surrendered
H	421m S	Site Name: 34/34 A Tilbury Docks Site Address: Tilbury Freeport, Tilbury, Essex, RM18 7DP Correspondence Address: -	Type of Site: Material Recycling Treatment Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: NOR066 EPR reference: EA/EPR/TP3995EW/S003 Operator: Nordic Recycling Limited Waste Management licence No: 100024 Annual Tonnage: 0	Issue Date: 07/11/2007 Effective Date: - Modified: 14/10/2014 Surrendered Date: 06/03/2017 Expiry Date: - Cancelled Date: - Status: Surrendered
H	421m S	Site Name: Nordic Recycling Limited Site Address: 34/34 A, Tilbury Docks, Tilbury Freeport, Tilbury, Essex, RM18 7EH Correspondence Address: -	Type of Site: Material Recycling Treatment Facility Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: NOR066 EPR reference: EA/EPR/TP3995EW/A001 Operator: Nordic Recycling Ltd Waste Management licence No: 100024 Annual Tonnage: 200000	Issue Date: 07/11/2007 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
H	421m S	Site Name: Nordic Recyclling Limited Site Address: 34/34 A, Tilbury Docks, Tilbury Freeport, Tilbury, Essex, RM18 7EH Correspondence Address: Berth 6, Basin 3, Chatham Docks, Gillingham, Kent, ME4 2SR	Type of Site: Physical Treatment Facility Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: NOR066 EPR reference: - Operator: Nordic Recycling Ltd Waste Management licence No: 100024 Annual Tonnage: 0	Issue Date: 07/11/2007 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued



ID	Location	Details		
H	421m S	Site Name: 34/34 A Tilbury Docks Site Address: Tilbury Freeport, Tilbury, Essex, RM18 7DP Correspondence Address: -	Type of Site: Material Recycling Treatment Facility Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: NOR066 EPR reference: EA/EPR/TP3995EW/S003 Operator: Nordic Recycling Limited Waste Management licence No: 100024 Annual Tonnage: 0	Issue Date: 07/11/2007 Effective Date: - Modified: 14/10/2014 Surrendered Date: Mar 6 2017 12:00AM Expiry Date: - Cancelled Date: - Status: Surrendered
9	424m NE	Site Name: Bulks Terminal Site Address: Leslie Ford House, Tilbury Freeport, Tilbury, Essex, RM18 7EH Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: POT025 EPR reference: EA/EPR/EP3501UC/A001 Operator: Port Of Tilbury London Limited Waste Management licence No: 402819 Annual Tonnage: 249999	Issue Date: 31/01/2018 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
I	470m SE	Site Name: Tilbury Dock Shed 32a Site Address: Tilbury Dock Shed 32a, Port Of Tilbury, Tilbury, Essex, RM18 7NS Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SUE001 EPR reference: EA/EPR/FB3108LF/S002 Operator: Suez Recycling And Recovery U K Ltd Waste Management licence No: 404041 Annual Tonnage: 0	Issue Date: 02/08/2017 Effective Date: - Modified: - Surrendered Date: 14/11/2018 Expiry Date: - Cancelled Date: - Status: Surrendered



ID	Location	Details		
I	470m SE	Site Name: Tilbury Dock Shed 32a Site Address: Tilbury Dock Shed 32a, Port Of Tilbury, Tilbury, Essex, RM18 7NS Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SUE001 EPR reference: EA/EPR/FB3108LF/S002 Operator: Suez Recycling And Recovery Uk Ltd Waste Management licence No: 404041 Annual Tonnage: 0	Issue Date: 02/08/2017 Effective Date: - Modified: - Surrendered Date: Nov 14 2018 12:00AM Expiry Date: - Cancelled Date: - Status: Surrendered
I	470m SE	Site Name: Tilbury Dock Shed 32a Site Address: Tilbury Dock Shed 32a, Port Of Tilbury, Tilbury, Essex, RM18 7NS Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SUE001 EPR reference: EA/EPR/FB3108LF/S002 Operator: Suez Recycling And Recovery Uk Ltd Waste Management licence No: 404041 Annual Tonnage: 0	Issue Date: 02/08/2017 Effective Date: - Modified: - Surrendered Date: Nov 14 2018 12:00AM Expiry Date: - Cancelled Date: - Status: Surrendered
K	499m NE	Site Name: - Site Address: 21, Berth, Tilbury Docks, Tilbury, Essex, RM18 7JT Correspondence Address: -	Type of Site: Transfer Station taking Non-Biodegradable Wastes Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: POW001 EPR reference: EA/EPR/GP3699NE/S002 Operator: Powell Duffryn Shipping Ltd Waste Management licence No: 70356 Annual Tonnage: 30000	Issue Date: 30/03/1994 Effective Date: - Modified: - Surrendered Date: 23/09/2004 Expiry Date: - Cancelled Date: - Status: Surrendered



ID	Location	Details		
K	499m NE	Site Name: - Site Address: 21, Berth, Tilbury Docks, Tilbury, Essex, RM18 7JT Correspondence Address: -	Type of Site: Transfer Station taking Non-Biodegradable Wastes Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: POW001 EPR reference: EA/EPR/GP3699NE/S002 Operator: Powell Duffryn Shipping Ltd Waste Management licence No: 70356 Annual Tonnage: 30000	Issue Date: 30/03/1994 Effective Date: - Modified: - Surrendered Date: Sep 23 2004 12:00AM Expiry Date: - Cancelled Date: - Status: Surrendered

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

3.7 Waste exemptions

Records within 500m	20
----------------------------	-----------

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

Features are displayed on the Waste and landfill map on [page 32 >](#)

ID	Location	Site	Reference	Category	Sub-Category	Description
1	40m SE	LESLIE FORD HOUSE TILBURY FREEPORT TILBURY ESSEX RM18 7EH	EPR/NF0405X C/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
A	97m SE	Tilbury Dock TILBURY Essex RM18 7EH	EPR/XH0470S A/A001	Treating waste exemption	Non-Agricultural Waste Only	Screening and blending of waste
C	172m N	npa - Tenants Row Tilbury Thurrock RM18 7JJ	EPR/FF0708CR /A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in secure containers
C	172m N	npa - Tenants Row Tilbury Thurrock RM18 7JJ	EPR/FF0708CR /A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
E	301m NE	LESLIE FORD HOUSE, TILBURY, RM18 7EH	WEX124012	Storing waste exemption	Not on a farm	Storage of waste in a secure place
E	301m NE	-	WEX263592	Storing waste exemption	Not on a farm	Storage of waste in a secure place



ID	Location	Site	Reference	Category	Sub-Category	Description
E	308m NE	LESLIE FORD HOUSE TILBURY FREEPORT TILBURY ESSEX RM18 7EH	EPR/SF0107Z W/A001	Storing waste exemption	Non- Agricultural Waste Only	Storage of waste in a secure place
G	401m NE	Shed 46, Tilbury Docks, Tilbury, RM18 7EH	WEX083128	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
G	401m NE	External Land Adjacent to Shed 46, Tilbury Docks, Tilbury, RM18 7EH	WEX061924	Storing waste exemption	Not on a farm	Storage of waste in a secure place
D	421m N	Tilbury Docksc/o 26 Berth Workshop, Enterprise Distribtuion Centre, Tilbury Dock, Tilbury, RM18 7EH	WEX130263	Storing waste exemption	Not on a farm	Storage of waste in secure containers
D	421m N	Tilbury Docksc/o 42 Berth Workshop, Conventional Operations, Tilbury Dock, Tilbury, RM18 7EH	WEX130267	Storing waste exemption	Not on a farm	Storage of waste in secure containers
D	422m N	Port of Tilbury London Port Engineering Tilbury RM18 7EH	EPR/ZF0334VY /A001	Treating waste exemption	Non- Agricultural Waste Only	Crushing waste fluorescent tubes
D	422m N	Port Of Tilbury 47 Berth Tilbury Dock RM18 7EH	EPR/CF0604M V/A001	Storing waste exemption	Non- Agricultural Waste Only	Storage of waste in secure containers
D	422m N	Conventional Operations Berth 42, Tilbury Dock Essex RM18 7EH	EPR/CF0804M D/A001	Storing waste exemption	Non- Agricultural Waste Only	Storage of waste in secure containers
D	422m N	Enterprise Distribution Centre Berth 26 Tilbury Dock Essex RM18 7EH	EPR/CF0904M J/A001	Storing waste exemption	Non- Agricultural Waste Only	Storage of waste in secure containers
11	445m NE	-	WEX300683	Using waste exemption	Not on a Farm	Use of waste in construction
12	461m W	SITE 41, NORTHFLEET HOPE HOUSE, TILBURY DOCKS, TILBURY, RM18 7HX	WEX148319	Using waste exemption	Not on a farm	Use of waste in construction
J	492m SE	Tilbury Port, Tilbury Docks, Tilbury, RM18 7EH	WEX241177	Storing waste exemption	Not on a farm	Storage of waste in a secure place
J	492m SE	Tilbury Docksc/o 42 Berth Workshop, Conventional Operations, Tilbury Dock, Tilbury, RM18 7EH	WEX272296	Storing waste exemption	Not on a farm	Storage of waste in secure containers

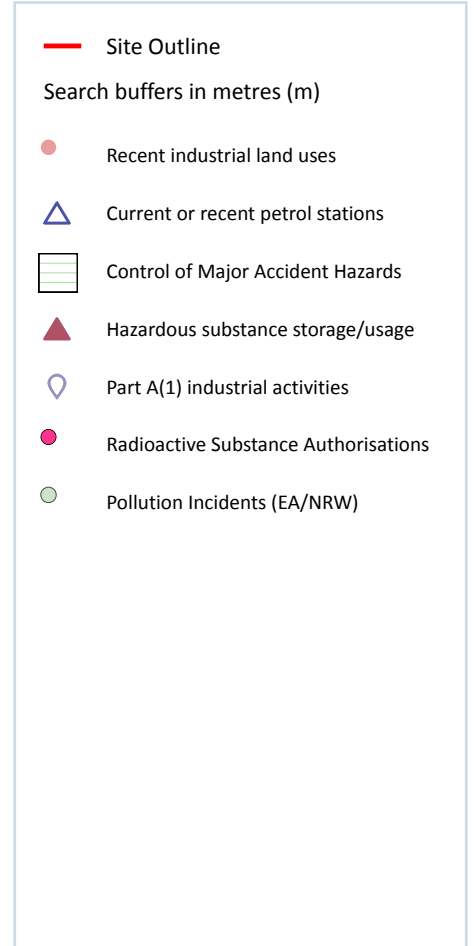
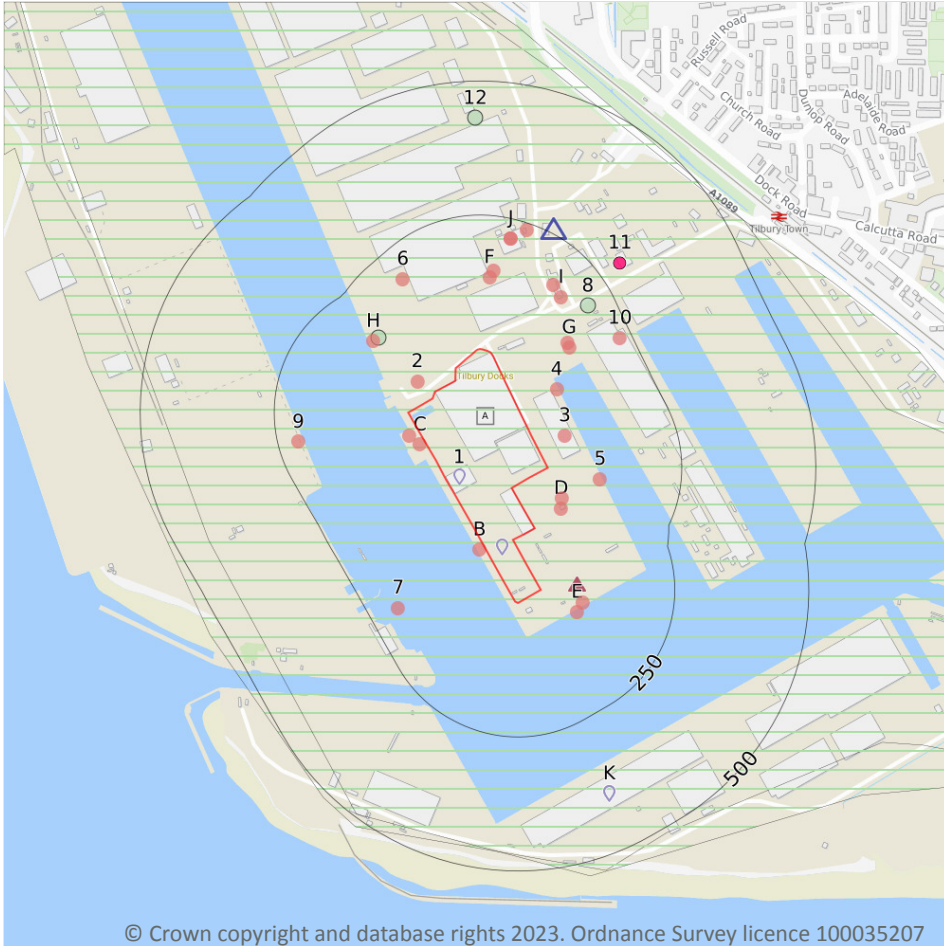


ID	Location	Site	Reference	Category	Sub-Category	Description
J	492m SE	Tilbury Docksc/o 26 Berth Workshop, Enterprise Distribtuion Centre, Tilbury Dock, Tilbury, RM18 7EH	WEX272297	Storing waste exemption	Not on a farm	Storage of waste in secure containers

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



4 Current industrial land use



© Crown copyright and database rights 2023. Ordnance Survey licence 100035207

4.1 Recent industrial land uses

Records within 250m

25

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 46](#) >

ID	Location	Company	Address	Activity	Category
B	11m S	Travelling Crane	Essex, RM18	Travelling Cranes and Gantries	Industrial Features
C	11m W	Travelling Crane	Essex, RM18	Travelling Cranes and Gantries	Industrial Features
C	19m W	Mooring Posts	Essex, RM18	Moorings and Unloading Facilities	Water



ID	Location	Company	Address	Activity	Category
2	38m NW	Pylon	Essex, RM18	Electrical Features	Infrastructure and Facilities
3	56m E	Fielding Transport	43, Berth Tilbury Freeport, Tilbury, Essex, RM18 7HB	Distribution and Haulage	Transport, Storage and Delivery
D	61m SE	Electricity Sub Station	Essex, RM18	Electrical Features	Infrastructure and Facilities
D	63m SE	Mast (Telecommunication)	Essex, RM18	Telecommunications Features	Infrastructure and Facilities
E	80m SE	Mooring Posts	Essex, RM18	Moorings and Unloading Facilities	Water
4	80m NE	Travelling Crane	Essex, RM18	Travelling Cranes and Gantries	Industrial Features
E	82m SE	Travelling Crane	Essex, RM18	Travelling Cranes and Gantries	Industrial Features
5	100m E	Travelling Crane	Essex, RM18	Travelling Cranes and Gantries	Industrial Features
F	135m N	Electricity Sub Station	Essex, RM18	Electrical Features	Infrastructure and Facilities
G	135m NE	Mast	Essex, RM18	Telecommunications Features	Infrastructure and Facilities
G	137m NE	Electricity Sub Station	Essex, RM18	Electrical Features	Infrastructure and Facilities
H	148m NW	Travelling Crane	Essex, RM18	Travelling Cranes and Gantries	Industrial Features
F	149m N	Pylon	Essex, RM18	Electrical Features	Infrastructure and Facilities
I	167m NE	World Freight Consultants	15, Tennants Row, Tilbury, Essex, RM18 7EH	Distribution and Haulage	Transport, Storage and Delivery
I	172m N	Total Forwarding Ltd	11, Tenants Row, Tilbury Freeport, Tilbury, Essex, RM18 7JD	Distribution and Haulage	Transport, Storage and Delivery
6	191m NW	Pylon	Essex, RM18	Electrical Features	Infrastructure and Facilities
7	196m SW	Mooring Posts	Essex, RM18	Moorings and Unloading Facilities	Water



ID	Location	Company	Address	Activity	Category
9	212m W	Travelling Crane	Essex, RM18	Travelling Cranes and Gantries	Industrial Features
J	214m N	P T G Treatments Ltd	Berth 40 Workshop, -, Tilbury, Essex, RM18 7HP	Special Purpose Machinery and Equipment	Industrial Products
J	214m N	Hughes Associates F M	Berth 40 Workshop, -, Tilbury, Essex, RM18 7HP	Container and Storage	Transport, Storage and Delivery
10	228m NE	Tilbury Green Power - Biomass (dedicated) (BEIS)	Tilbury Docks, Essex, -, Essex, RM18 7NU	Energy Production	Industrial Features
J	237m N	Electricity Sub Station	Essex, RM18	Electrical Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m

1

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on [page 46 >](#)

ID	Location	Company	Address	LPG	Status
J	258m N	CERTAS ENERGY	Port Of Tilbury, Tilbury, Thurrock, RM18 7EH	No	Non-Retail

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m

0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.



4.4 Gas pipelines

Records within 500m **0**

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m **0**

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

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m **2**

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

Features are displayed on the Current industrial land use map on [page 46 >](#)

ID	Location	Company	Address	Operational status	Tier
A	On site	Laing National Ltd	Laing National Ltd, Tilbury Starch Works, Tilbury Docks	Historical NIHHS Site	-
A	On site	Port Of Tilbury London Ltd	Port Of Tilbury London Ltd, Tilbury Freeport, Tilbury, RM18 7EH	Historical NIHHS Site	-

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m **0**

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m

1

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

Features are displayed on the Current industrial land use map on [page 46 >](#)

ID	Location	Details	
E	67m SE	Application reference number: 97/00732/HSC Application status: Approved Application date: 09/10/1997 Address: Port of Tilbury London Ltd, Leslie Ford house, Tilbury Freeport, Tilbury, Essex, England, RM18 7JB	Details: Hazardous Substances consent for the handling of ammonium nitrate products Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m

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

7

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

Features are displayed on the Current industrial land use map on [page 46 >](#)

ID	Location	Details	
1	On site	Operator: Ballast Phoenix Ltd Installation Name: Tilbury IBA Facility - EPR/CP3732WS Process: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING TREATMENT OF SLAGS AND ASHES Permit Number: CP3732WS Original Permit Number: CP3732WS	EPR Reference: - Issue Date: 21/07/2016 Effective Date: 21/07/2016 Last date noted as effective: 21/03/2023 Status: Superseded

ID	Location	Details	
B	On site	Operator: Blue Phoenix Limited Installation Name: Tilbury IBA Facility - EPR/CP3732WS Process: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING TREATMENT OF SLAGS AND ASHES Permit Number: TP3906BG Original Permit Number: CP3732WS	EPR Reference: - Issue Date: 06/02/2020 Effective Date: 06/02/2020 Last date noted as effective: 21/03/2023 Status: Effective
B	On site	Operator: BLUE PHOENIX LIMITED Installation Name: Tilbury IBA Facility - EPR/CP3732WS Process: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING TREATMENT OF SLAGS AND ASHES Permit Number: BB3239RD Original Permit Number: CP3732WS	EPR Reference: EPR/BB3239RD Issue Date: 06/02/2020 Effective Date: 06/02/2020 Last date noted as effective: 25/05/2023 Status: Effective
K	394m S	Operator: SUEZ RECYCLING AND RECOVERY UK LTD Installation Name: Tilbury Dock Alternative Fuel Facility Process: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PRE-TREATMENT OF WASTE FOR INCINERATION OR CO-INCINERATION Permit Number: ZP3434EU Original Permit Number: ZP3434EU	EPR Reference: EPR/ZP3434EU Issue Date: 22/11/2018 Effective Date: 22/11/2018 Last date noted as effective: 25/05/2023 Status: Surrendered
K	394m S	Operator: SUEZ RECYCLING AND RECOVERY UK LTD Installation Name: TILBURY DOCK ALTERNATIVE FUEL FACILITY Process: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PRE-TREATMENT OF WASTE FOR INCINERATION OR CO-INCINERATION Permit Number: KP3436RG Original Permit Number: ZP3434EU	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 01/04/2017 Status: DETERMINATION
K	394m S	Operator: SITA UK Limited Installation Name: Tilbury Dock Alternative Fuel Facility Process: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PRE-TREATMENT OF WASTE FOR INCINERATION OR CO-INCINERATION Permit Number: TP3136WE Original Permit Number: ZP3434EU	EPR Reference: - Issue Date: 30/01/2015 Effective Date: 30/01/2015 Last date noted as effective: 21/03/2023 Status: Superseded



ID	Location	Details	
K	394m S	Operator: SUEZ Recycling and Recovery UK Ltd Installation Name: Tilbury Dock Alternative Fuel Facility Process: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PRE-TREATMENT OF WASTE FOR INCINERATION OR CO-INCINERATION Permit Number: YP3135QC Original Permit Number: ZP3434EU	EPR Reference: - Issue Date: - Effective Date: 22/11/2018 Last date noted as effective: 21/03/2023 Status: Surrender Effective

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

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

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

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.

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 46 >](#)

ID	Location	Address	Details	
11	293m NE	Leslie Ford House, Tilbury Freeport, Tilbury, RM18 7EH	Operator: Secretary of State for Home Affairs Type: - Permission number: CE4775 Date of approval: -	Effective from: - Last date of update: 01/01/2020 Status: Surrendered

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

3

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

Features are displayed on the Current industrial land use map on [page 46 >](#)

ID	Location	Details	
H	145m NW	Incident Date: 14/11/2003 Incident Identification: 201717 Pollutant: Contaminated Water Pollutant Description: Firefighting Run-Off	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
8	200m NE	Incident Date: 21/12/2001 Incident Identification: 49216 Pollutant: Oils and Fuel Pollutant Description: Gas and Fuel Oils	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
12	430m N	Incident Date: 05/09/2002 Incident Identification: 105752 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

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

4.19 Pollution inventory substances

Records within 500m

0

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

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

4.20 Pollution inventory waste transfers

Records within 500m

0

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

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

4.21 Pollution inventory radioactive waste

Records within 500m

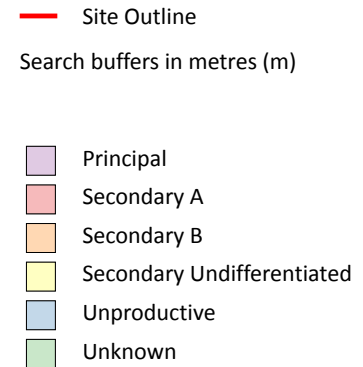
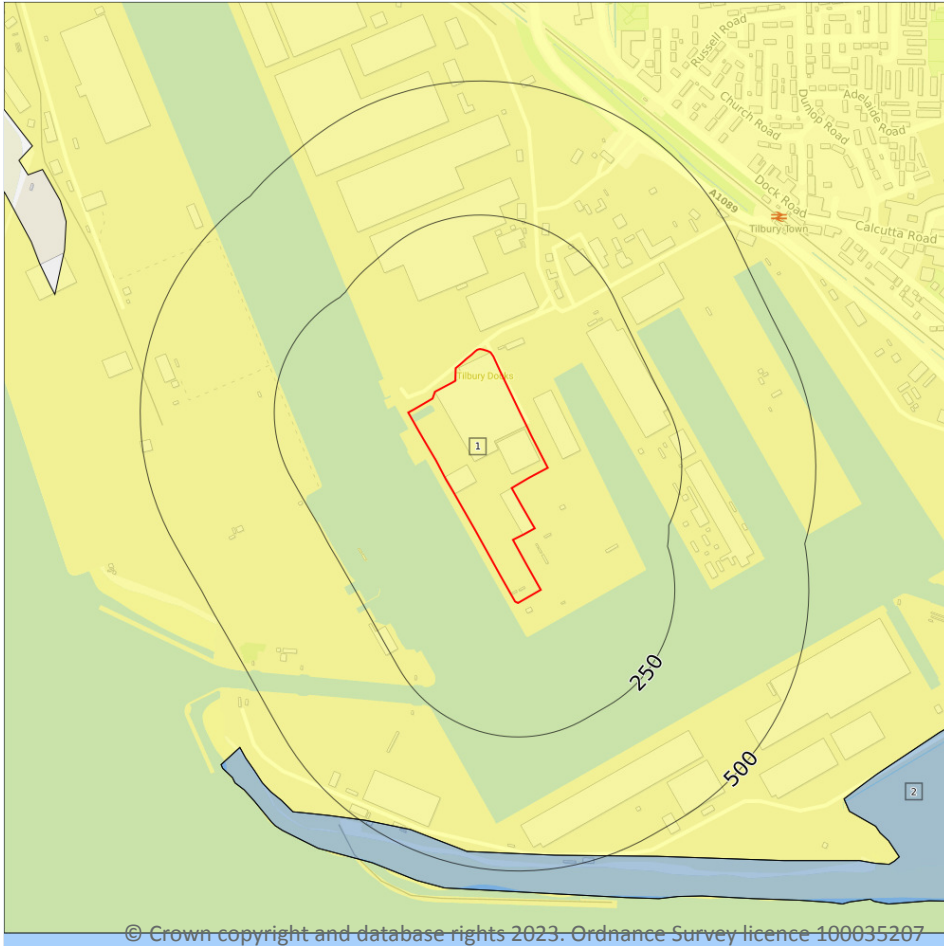
0

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

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



5 Hydrogeology - Superficial aquifer



5.1 Superficial aquifer

Records within 500m

2

Aquifer status of groundwater held within superficial geology.

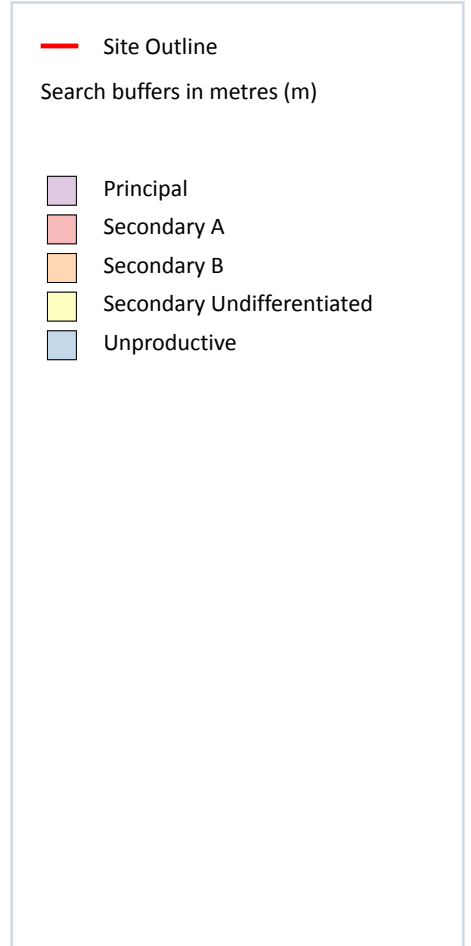
Features are displayed on the Hydrogeology map on [page 55 >](#)

ID	Location	Designation	Description
1	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
2	467m 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



5.2 Bedrock aquifer

Records within 500m

1

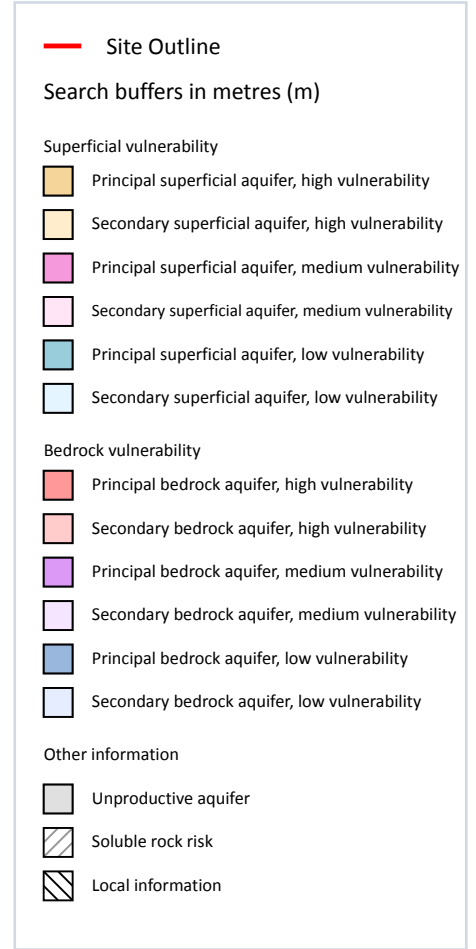
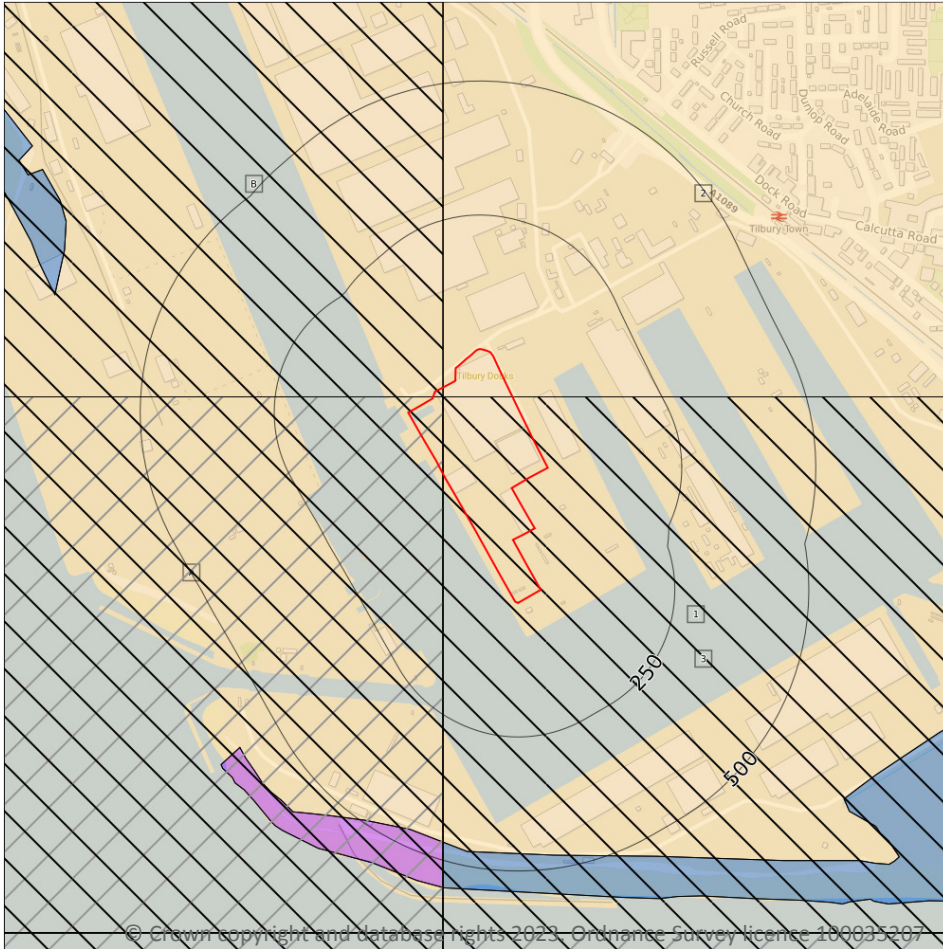
Aquifer status of groundwater held within bedrock geology.

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

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

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

Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

4

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 57 >](#)

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Well connected fractures
2	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Well connected fractures
A	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Principal Flow mechanism: Well connected fractures
B	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: 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
A	Significant soluble rocks are likely to be present. Problems unlikely except with considerable surface or subsurface water flow.	2.0%

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



5.5 Groundwater vulnerability- local information

Records on site

3

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

ID	Summary	Additional information
3	Potentially increased vulnerability of the bedrock aquifer due to limited cover by superficial deposits	Removal of, or limited cover of, superficial deposits within the River Thames
A	Potentially increased vulnerability of the bedrock aquifer due to limited cover by superficial deposits	Removal of, or limited cover of, superficial deposits within the River Thames
B	Potentially increased vulnerability of the bedrock aquifer due to limited cover by superficial deposits	Removal of, or limited cover of, superficial deposits within the River Thames

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



Abstractions and Source Protection Zones



5.6 Groundwater abstractions

Records within 2000m

9

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 60 >](#)

ID	Location	Details	
-	1085m S	Status: Active Licence No: 9/40/01/0092/A/GR/R1 Details: Boiler Feed Direct Source: Southern Region Groundwater Point: POINT A, BOREHOLE AT KIMBERLY CLARK, NORTHFLEET Data Type: Point Name: Kimberly-Clark Limited Easting: 562759 Northing: 174599	Annual Volume (m ³): 320000 Max Daily Volume (m ³): 1309 Original Application No: NPS/WR/024286 Original Start Date: 01/04/2018 Expiry Date: 31/03/2030 Issue No: 1 Version Start Date: 01/04/2018 Version End Date: -
-	1092m S	Status: Historical Licence No: 9/40/01/0092/A/GR Details: Boiler Feed Direct Source: Southern Region Groundwater Point: POINT 1, GREENSAND BOREHOLE, NORTHFLEET. Data Type: Point Name: Kimberly-Clark Limited Easting: 562860 Northing: 174560	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 27/05/1966 Version End Date: -
-	1093m S	Status: Historical Licence No: 9/40/01/0092/A/GR Details: Boiler Feed Direct Source: Southern Region Groundwater Point: POINT A, BOREHOLE AT KIMBERLY CLARK, NORTHFLEET Data Type: Point Name: Kimberly-Clark Limited Easting: 562760 Northing: 174590	Annual Volume (m ³): 400000 Max Daily Volume (m ³): 1309 Original Application No: - Original Start Date: 27/05/1966 Expiry Date: 31/03/2018 Issue No: 101 Version Start Date: 24/04/2002 Version End Date: -
-	1365m S	Status: Active Licence No: 9/40/01/0092/B/GR Details: Process Water Direct Source: Southern Region Groundwater Point: BOREHOLE 4, CRETE HALL ROAD, NORTHFLEET. Data Type: Point Name: Kimberly-Clark Limited Easting: 562980 Northing: 174260	Annual Volume (m ³): 4710000 Max Daily Volume (m ³): 19656 Original Application No: WR.1969D Original Start Date: 27/05/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/07/1996 Version End Date: -
-	1527m S	Status: Historical Licence No: 9/40/01/0092/A/GR Details: Boiler Feed Direct Source: Southern Region Groundwater Point: POINT 2, GREENSAND BOREHOLE, NORTHFLEET. Data Type: Point Name: Kimberly-Clark Limited Easting: 562830 Northing: 174120	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 27/05/1966 Version End Date: -



ID	Location	Details	
-	1540m S	Status: Historical Licence No: 9/40/01/0092/A/GR Details: Boiler Feed Direct Source: Southern Region Groundwater Point: POINT B, BOREHOLE AT KIMBERLY CLARK, NORTHFLEET Data Type: Point Name: Kimberly-Clark Limited Easting: 562770 Northing: 174120	Annual Volume (m ³): 400000 Max Daily Volume (m ³): 1309 Original Application No: - Original Start Date: 27/05/1966 Expiry Date: 31/03/2018 Issue No: 101 Version Start Date: 24/04/2002 Version End Date: -
-	1546m S	Status: Active Licence No: 9/40/01/0092/A/GR/R1 Details: Boiler Feed Direct Source: Southern Region Groundwater Point: POINT B, BOREHOLE AT KIMBERLY CLARK, NORTHFLEET Data Type: Point Name: Kimberly-Clark Limited Easting: 562772 Northing: 174114	Annual Volume (m ³): 320000 Max Daily Volume (m ³): 1309 Original Application No: NPS/WR/024286 Original Start Date: 01/04/2018 Expiry Date: 31/03/2030 Issue No: 1 Version Start Date: 01/04/2018 Version End Date: -
-	1959m W	Status: Active Licence No: 01/158/R01 Details: Mineral Washing Direct Source: Southern Region Groundwater Point: BOREHOLE AT SWANSCOMBE MARSHES Data Type: Point Name: Cemex UK Materials Ltd Easting: 560976 Northing: 175941	Annual Volume (m ³): 26300 Max Daily Volume (m ³): 105 Original Application No: NPS/WR/030687 Original Start Date: 01/04/2014 Expiry Date: 31/03/2026 Issue No: 2 Version Start Date: 21/12/2018 Version End Date: -
-	1965m W	Status: Historical Licence No: 01/158 Details: Mineral Washing Direct Source: Southern Region Groundwater Point: A BOREHOLE AT SWANSCOMBE MARSHES Data Type: Point Name: Cemex UK Materials Ltd Easting: 560970 Northing: 175920	Annual Volume (m ³): 26300 Max Daily Volume (m ³): 105 Original Application No: - Original Start Date: 01/12/2005 Expiry Date: 31/03/2014 Issue No: 1 Version Start Date: 18/10/2006 Version End Date: -

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



5.7 Surface water abstractions

Records within 2000m

1

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

Features are displayed on the Abstractions and Source Protection Zones map on [page 60 >](#)

ID	Location	Details	
-	1356m SW	Status: Active Licence No: 9/40/01/0522/S Details: Mineral Washing Direct Source: Southern Region Surface Waters Point: POINT A, TIDAL RIVER THAMES AT SWANSCOMBE. Data Type: Point Name: Robert Brett & Sons Ltd Easting: 561870 Northing: 175100	Annual Volume (m ³): 45500 Max Daily Volume (m ³): 375 Original Application No: 169/872 Original Start Date: 06/02/1990 Expiry Date: - Issue No: 101 Version Start Date: 01/01/2002 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m

0

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

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

5.9 Source Protection Zones

Records within 500m

0

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

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



5.10 Source Protection Zones (confined aquifer)

Records within 500m

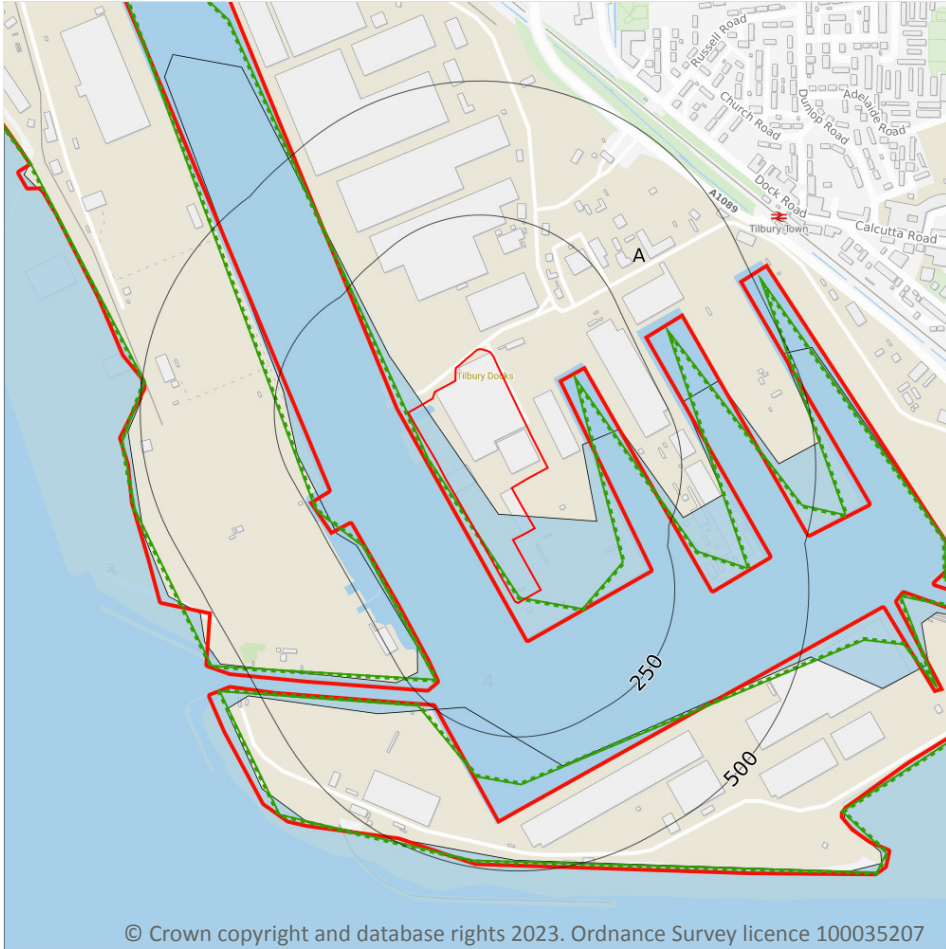
0

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

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



6 Hydrology



© Crown copyright and database rights 2023. Ordnance Survey licence 100035207

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

6.1 Water Network (OS MasterMap)

Records within 250m

1

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

Features are displayed on the Hydrology map on [page 65 >](#)

ID	Location	Type of water feature	Ground level	Permanence	Name
4	101m S	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.



6.2 Surface water features

Records within 250m

2

Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.

Features are displayed on the Hydrology map on [page 65 >](#)

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site

1

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

Features are displayed on the Hydrology map on [page 65 >](#)

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	On site	Coastal Catchment	Not part of a river WB catchment	126	Mardyke	South Essex

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 65 >](#)

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
2	On site	Transi	THAMES MIDDLE	GB530603911402 ↗	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 65 >](#)

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	On site	South Essex Thurrock Chalk	GB40601G401100 ↗	Poor	Poor	Poor	2019

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



7 River and coastal flooding



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

7.1 Risk of flooding from rivers and the sea

Records within 50m

1

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

Features are displayed on the River and coastal flooding map on [page 68](#) >

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

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	2
----------------------------	----------

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

Features are displayed on the River and coastal flooding map on [page 68](#) >

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

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



7.5 Flood Storage Areas

Records within 250m

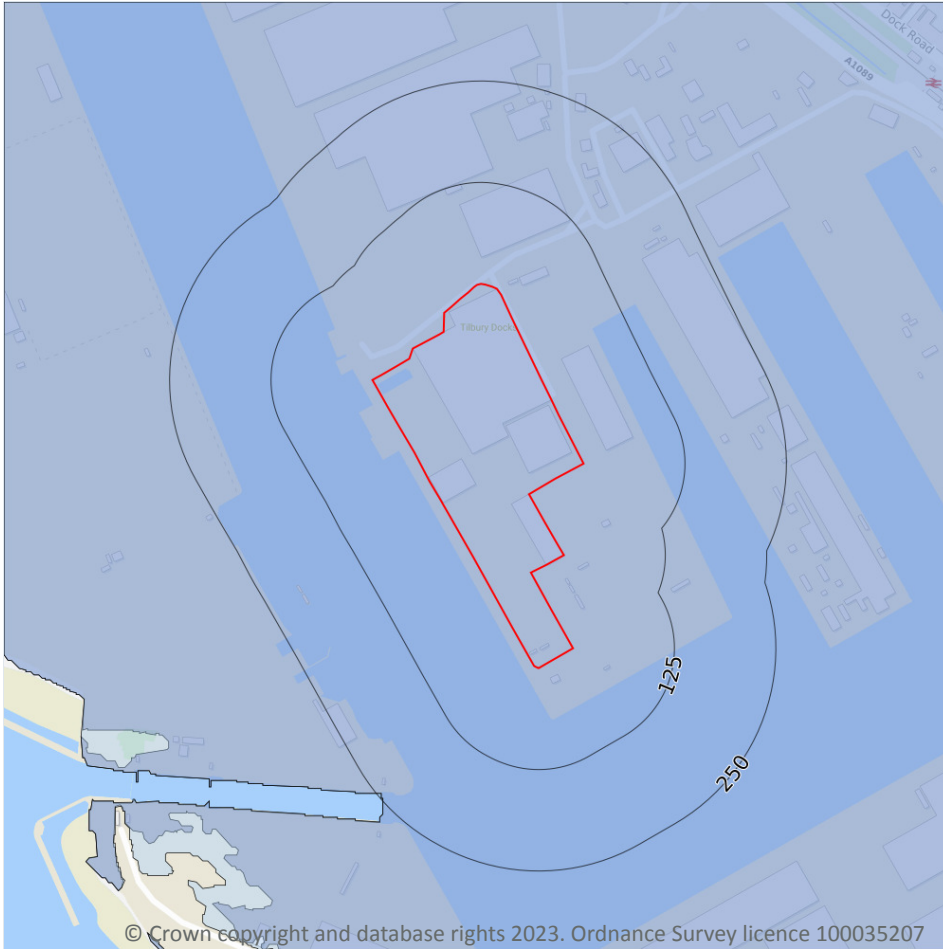
0

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

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



River and coastal flooding - Flood Zones



- Site Outline
- Search buffers in metres (m)
- Flood zone 2
- Flood zone 3

© Crown copyright and database rights 2023. Ordnance Survey licence 100035207

7.6 Flood Zone 2

Records within 50m

1

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

Features are displayed on the River and coastal flooding map on [page 68](#) >

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

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



7.7 Flood Zone 3

Records within 50m

1

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

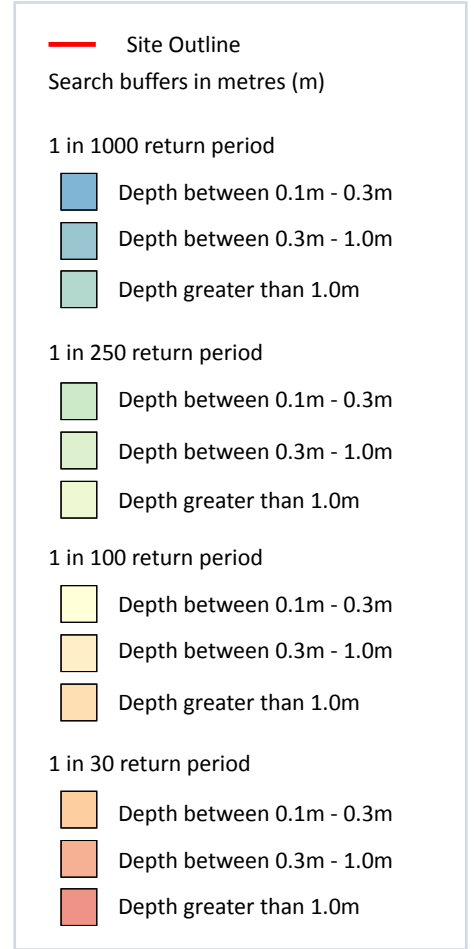
Features are displayed on the River and coastal flooding map on [page 68](#) >

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

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



8 Surface water flooding



8.1 Surface water flooding

Highest risk on site

1 in 30 year, 0.1m - 0.3m

Highest risk within 50m

1 in 30 year, 0.3m - 1.0m

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

Features are displayed on the Surface water flooding map on [page 73 >](#)

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.

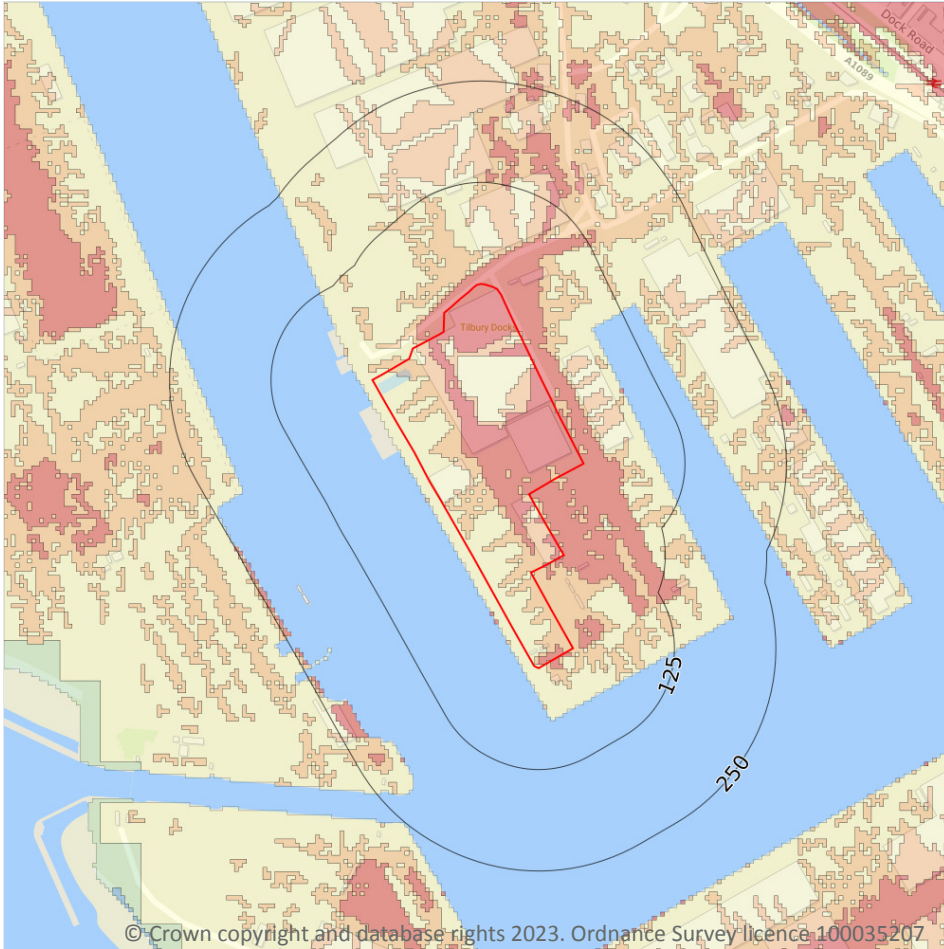
The table below shows the maximum flood depths for a range of return periods for the site.

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 0.1m and 0.3m
1 in 30 year	Between 0.1m and 0.3m

This data is sourced from Ambiental Risk Analytics.



9 Groundwater flooding



— Site Outline
Search buffers in metres (m)

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

9.1 Groundwater flooding

Highest risk on site

High

Highest risk within 50m

High

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

Features are displayed on the Groundwater flooding map on [page 75 >](#)

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

1

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 76 >](#)

ID	Location	Name	Data source
-	1718m W	Swanscombe Peninsula	Natural England

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m

0

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m

0

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m

0

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

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



10.6 Local Nature Reserves (LNR)

Records within 2000m

0

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

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

10.7 Designated Ancient Woodland

Records within 2000m

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

1

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

Features are displayed on the Environmental designations map on [page 76 >](#)

ID	Location	Name	Local Authority name
1	615m N	London	Thurrock

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

1

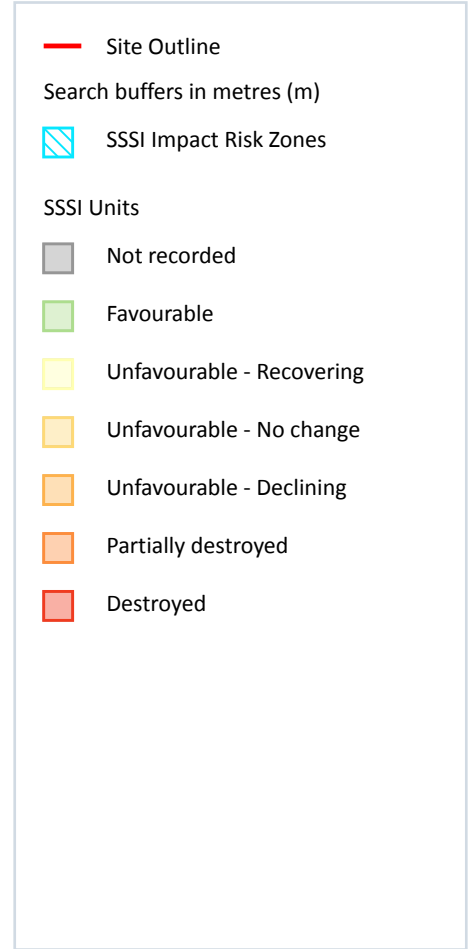
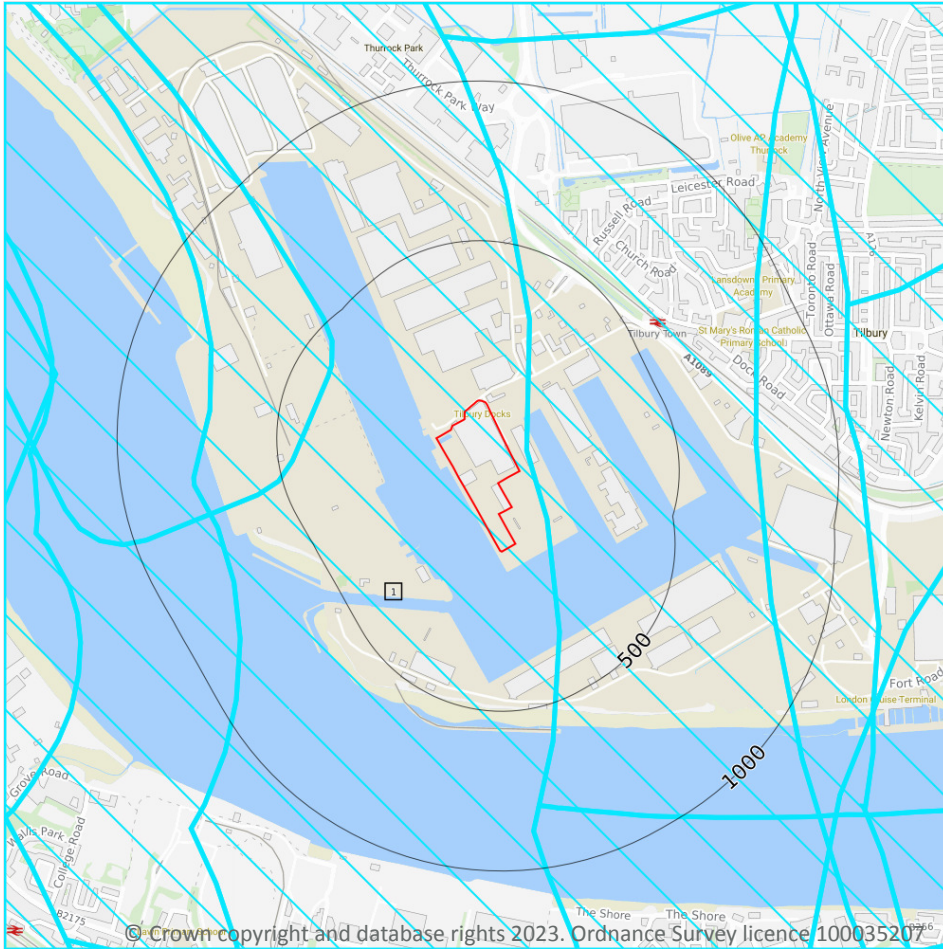
Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
1771m S	North Kent	Groundwater	65	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 81](#) >

ID	Location	Type of developments requiring consultation
1	On site	<p>All applications - All planning applications (except householder) outside or extending outside existing settlements/urban areas affecting greenspace, farmland, semi natural habitats or landscape features such as trees, hedges, streams, rural buildings/structures.</p> <p>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.</p> <p>Wind and Solar - Solar schemes with footprint > 0.5ha, all wind turbines.</p> <p>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.</p> <p>Rural non-residential - Large non residential developments outside existing settlements/urban areas where footprint exceeds 1ha.</p> <p>Residential - Residential development of 50 units or more.</p> <p>Rural residential - Any residential development of 50 or more houses outside existing settlements/urban areas.</p> <p>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).</p> <p>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.</p> <p>Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill.</p> <p>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.</p> <p>Discharges - Any discharge of water or liquid waste of more than 20m³/day to ground (ie to seep away) or to surface water, such as a beck or stream.</p> <p>Water supply - Large infrastructure such as warehousing / industry where total net additional gross internal floorspace following development is 1,000m² or more.</p> <p>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.</p>

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 81](#) >

ID: -
 Location: 1718m W
 SSSI name: Swanscombe Peninsula
 Unit name: Swanscombe Mudflat
 Broad habitat:
 Condition: Favourable



Reportable features:

Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Mixed: Lowland open waters and their margins, Lowland fen and Lowland damp grassland	Favourable	11/03/2021
Invert. assemblage F111 bare sand & chalk	Favourable	11/03/2021
Invert. assemblage F112 open short sward	Favourable	11/03/2021
Invert. assemblage M311 saltmarsh and transitional brackish marsh	Favourable	11/03/2021

ID: -
Location: 1743m W
SSSI name: Swanscombe Peninsula
Unit name: Botany Marsh East
Broad habitat:
Condition: Favourable
Reportable features:

Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Mixed: Lowland open waters and their margins, Lowland fen and Lowland damp grassland	Favourable	11/03/2021
Assemblages of breeding birds - Scrub	Favourable	11/03/2021
Invert. assemblage F111 bare sand & chalk	Favourable	11/03/2021
Invert. assemblage F112 open short sward	Favourable	11/03/2021
Invert. assemblage M311 saltmarsh and transitional brackish marsh	Favourable	11/03/2021
Invert. assemblage W211 open water on disturbed sediments	Favourable	11/03/2021
Vascular Plant Species: Carex divisa, Divided Sedge	Favourable	11/03/2021
Vascular Plant Species: Lathyrus aphaca, Yellow Vetchling	Favourable	11/03/2021

ID: -
Location: 1822m W
SSSI name: Swanscombe Peninsula
Unit name: Swanscombe Sea Wall
Broad habitat:
Condition: Favourable
Reportable features:



Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Mixed: Lowland open waters and their margins, Lowland fen and Lowland damp grassland	Favourable	11/03/2021
Assemblages of breeding birds - Scrub	Favourable	11/03/2021
Invert. assemblage F111 bare sand & chalk	Favourable	11/03/2021
Invert. assemblage F112 open short sward	Favourable	11/03/2021
Invert. assemblage M311 saltmarsh and transitional brackish marsh	Favourable	11/03/2021
Vascular Plant Species: Bupleurum tenuissimum, Slender Hare's-ear	Favourable	11/03/2021
Vascular Plant Species: Carex divisa, Divided Sedge	Favourable	11/03/2021
Vascular Plant Species: Lathyrus aphaca, Yellow Vetchling	Favourable	11/03/2021
Vascular Plant Species: Vicia bithynica, Bithynian Vetch	Favourable	11/03/2021

ID: -
 Location: 1870m W
 SSSI name: Swanscombe Peninsula
 Unit name: Broadness
 Broad habitat:
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Mixed: Lowland open waters and their margins, Lowland fen and Lowland damp grassland	Favourable	11/03/2021
Assemblages of breeding birds - Scrub	Favourable	11/03/2021
Invert. assemblage F111 bare sand & chalk	Favourable	11/03/2021
Invert. assemblage F112 open short sward	Favourable	11/03/2021
Invert. assemblage M311 saltmarsh and transitional brackish marsh	Favourable	11/03/2021
Vascular Plant Species: Bupleurum tenuissimum, Slender Hare's-ear	Favourable	11/03/2021
Vascular Plant Species: Lathyrus aphaca, Yellow Vetchling	Favourable	11/03/2021
Vascular Plant Species: Vicia bithynica, Bithynian Vetch	Favourable	11/03/2021



ID: -
Location: 1986m W
SSSI name: Swanscombe Peninsula
Unit name: Botany Marsh West, North
Broad habitat:
Condition: Favourable
Reportable features:

Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Mixed: Lowland open waters and their margins, Lowland fen and Lowland damp grassland	Favourable	11/03/2021
Invert. assemblage M311 saltmarsh and transitional brackish marsh	Favourable	11/03/2021
Invert. assemblage W211 open water on disturbed sediments	Favourable	11/03/2021
Vascular Plant Species: Bupleurum tenuissimum, Slender Hare's-ear	Favourable	11/03/2021
Vascular Plant Species: Carex divisa, Divided Sedge	Favourable	11/03/2021
Vascular Plant Species: Lathyrus aphaca, Yellow Vetchling	Favourable	11/03/2021

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



11 Visual and cultural designations

11.1 World Heritage Sites

Records within 250m

0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

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

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

11.3 National Parks

Records within 250m

0

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

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

11.4 Listed Buildings

Records within 250m

0

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



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

11.5 Conservation Areas

Records within 250m

0

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

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

11.6 Scheduled Ancient Monuments

Records within 250m

0

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

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

11.7 Registered Parks and Gardens

Records within 250m

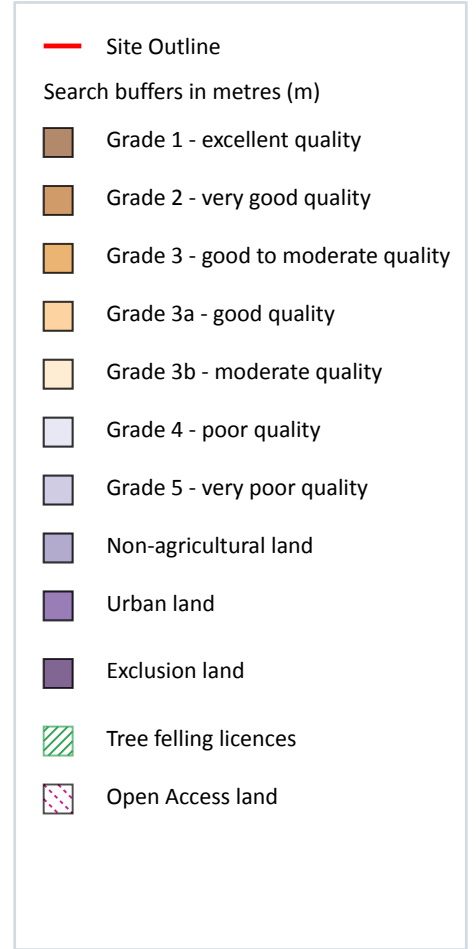
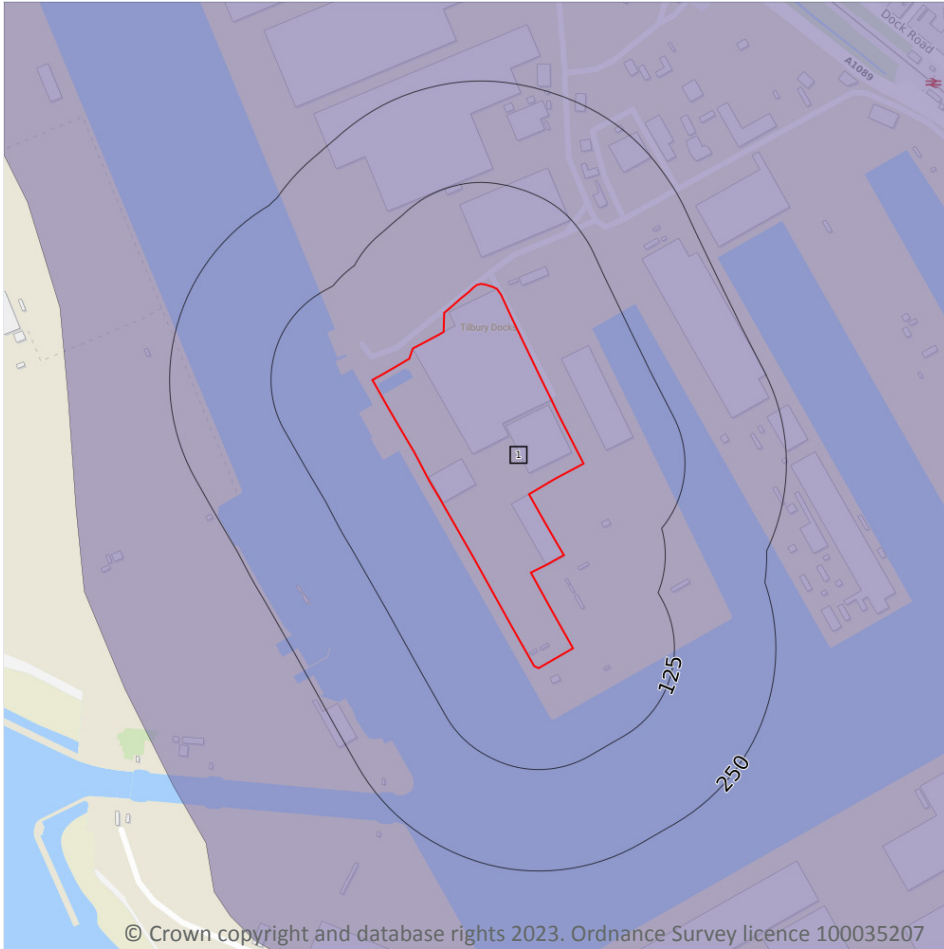
0

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

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



12 Agricultural designations



© Crown copyright and database rights 2023. Ordnance Survey licence 100035207

12.1 Agricultural Land Classification

Records within 250m

1

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

Features are displayed on the Agricultural designations map on [page 88](#) >

ID	Location	Classification	Description
1	On site	Non Agricultural	-

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

1

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

Features are displayed on the Habitat designations map on [page 90](#) >



ID	Location	Type	Habitat
1	216m S	Network Enhancement Zone 2	Not specified

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

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

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

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

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

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

This data is sourced from Natural England.

14 Geology 1:10,000 scale - Availability



— Site Outline
 Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m

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.

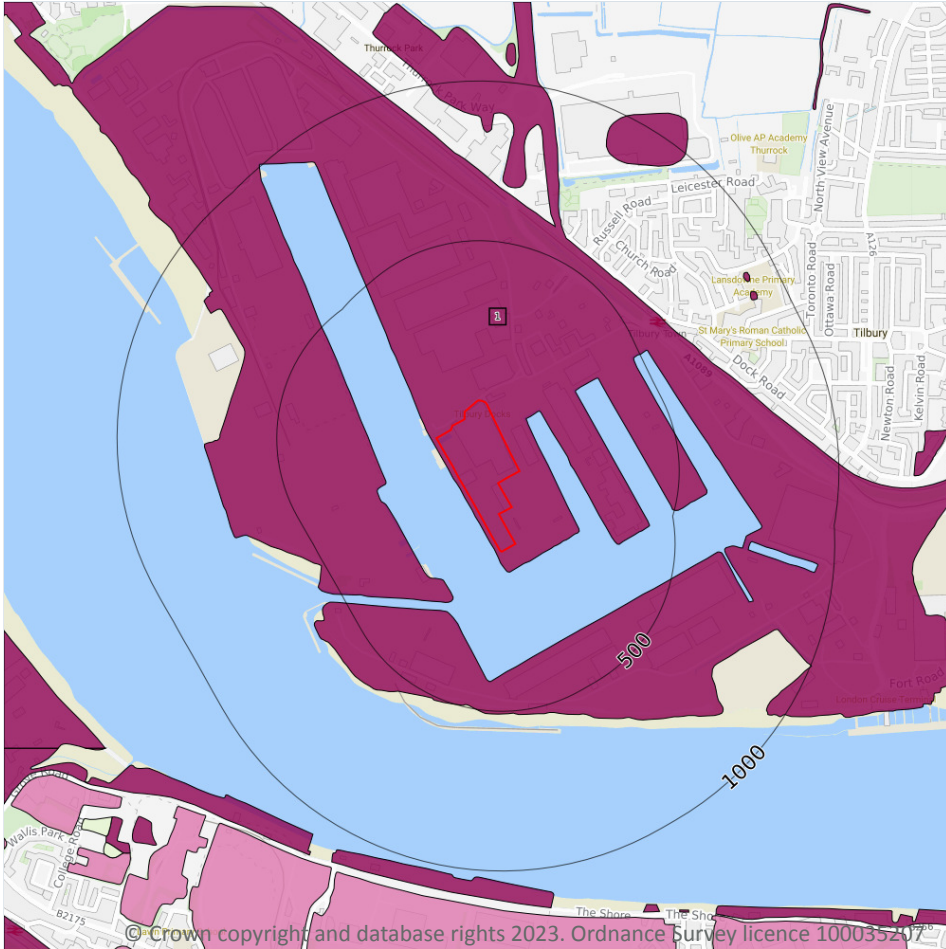
Features are displayed on the Geology 1:10,000 scale - Availability map on [page 92](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	TQ67NW

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 **1**

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

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on [page 93](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	MGR-UKNOWN	Made Ground (Undivided)	Unknown/unclassified Entry

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial



- Site Outline
- Search buffers in metres (m)
- Landslip (10k)
- Superficial geology (10k)
Please see table for more details.

14.3 Superficial geology (10k)

Records within 500m

2

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

Features are displayed on the Geology 1:10,000 scale - Superficial map on [page 94](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	ALV-Z	Alluvium - Silt (unlithified Deposits Coding Scheme)	Silt
2	492m S	TRD-Z	Tidal River Or Creek Deposits - Silt	Silt

This data is sourced from the British Geological Survey.



14.4 Landslip (10k)

Records within 500m

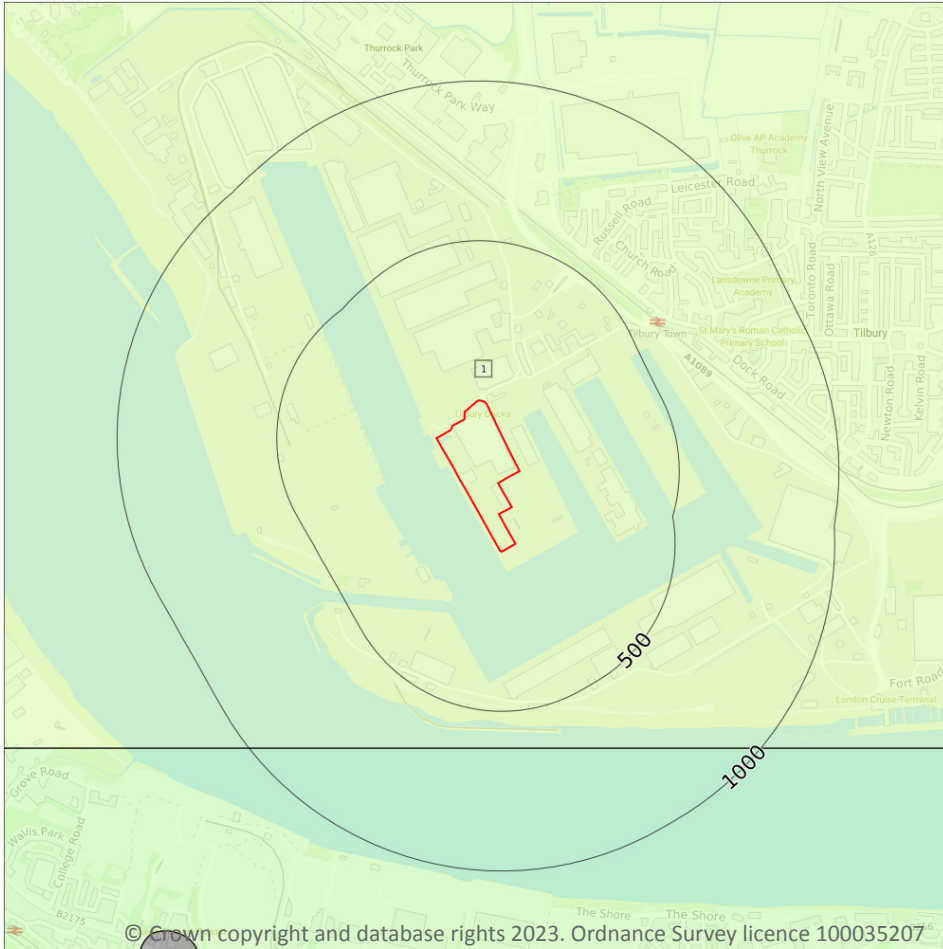
0

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

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock



- Site Outline
- Search buffers in metres (m)
- Bedrock faults and other linear features (10k)
- Bedrock geology (10k)
Please see table for more details.

14.5 Bedrock geology (10k)

Records within 500m

1

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

Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 96](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	CK-CHLK	Chalk Group - Chalk	Maastrichtian Age - Cenomanian Age

This data is sourced from the British Geological Survey.



14.6 Bedrock faults and other linear features (10k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



— Site Outline
 Search buffers in metres (m)

□ Geological map tile

15.1 50k Availability

Records within 500m

1

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

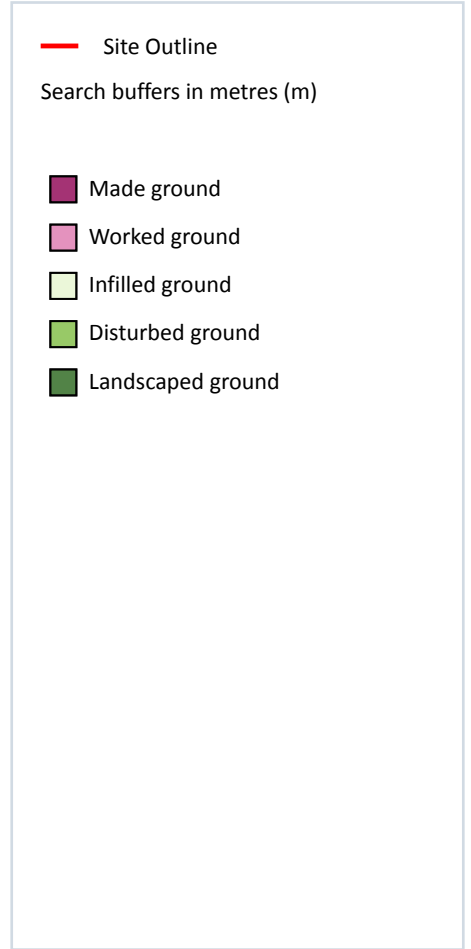
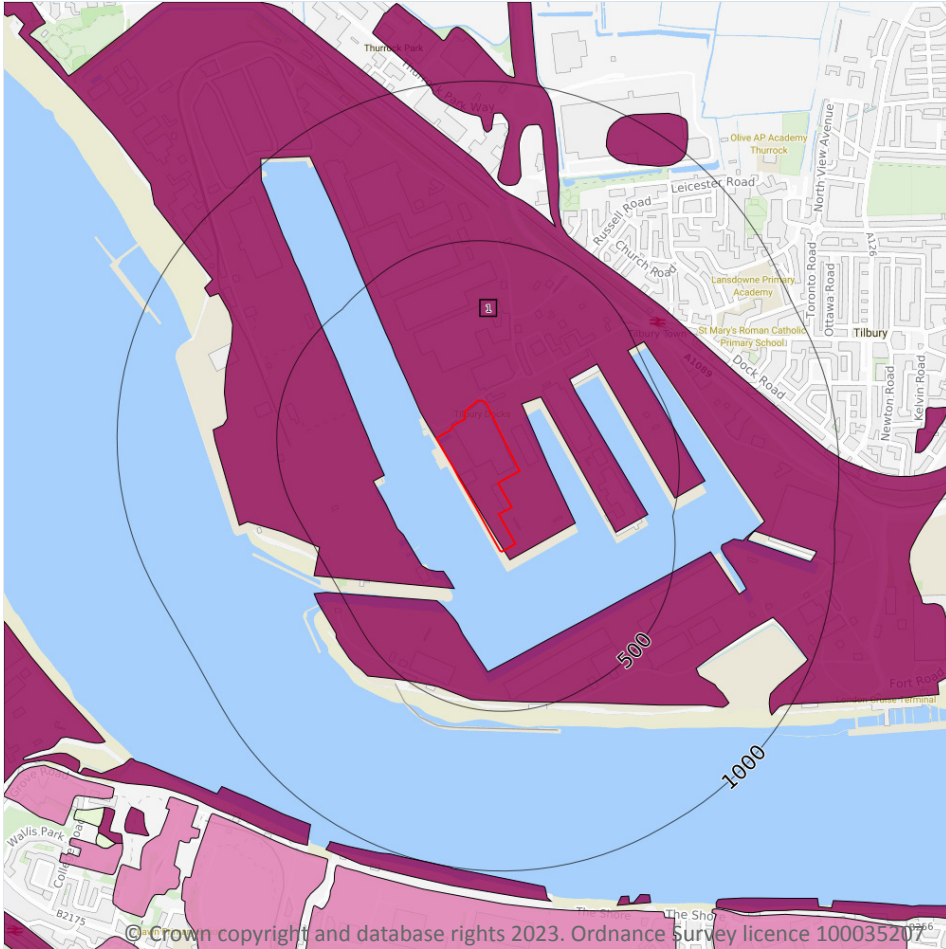
Features are displayed on the Geology 1:50,000 scale - Availability map on [page 98 >](#)

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW271_dartford_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 **1**

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

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on [page 99 >](#)

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

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m**1**

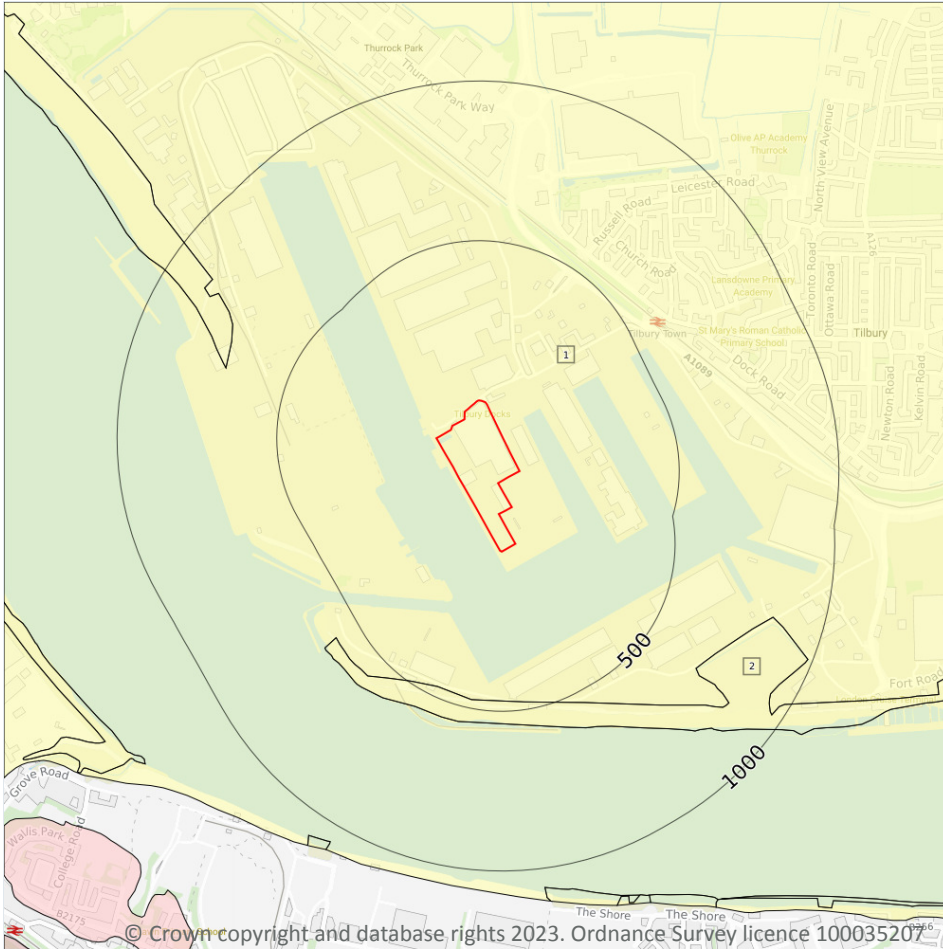
A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



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

15.4 Superficial geology (50k)

Records within 500m

2

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

Features are displayed on the Geology 1:50,000 scale - Superficial map on [page 101](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	ALV-XCZSP	ALLUVIUM	CLAY, SILT, SAND AND PEAT
2	467m S	TRD-XCZ	TIDAL RIVER OR CREEK DEPOSITS	CLAY AND SILT

This data is sourced from the British Geological Survey.



15.5 Superficial permeability (50k)

Records within 50m

1

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Intergranular	Moderate	Very Low

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

Records within 50m

0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Bedrock



- Site Outline
- Search buffers in metres (m)
- Bedrock faults and other linear features (50k)
- Bedrock geology (50k)
Please see table for more details.

15.8 Bedrock geology (50k)

Records within 500m

1

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on [page 103](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	LSNCK-CHLK	LEWES NODULAR CHALK FORMATION, SEAFORD CHALK FORMATION AND NEWHAVEN CHALK FORMATION (UNDIFFERENTIATED) - CHALK	TURONIAN

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.

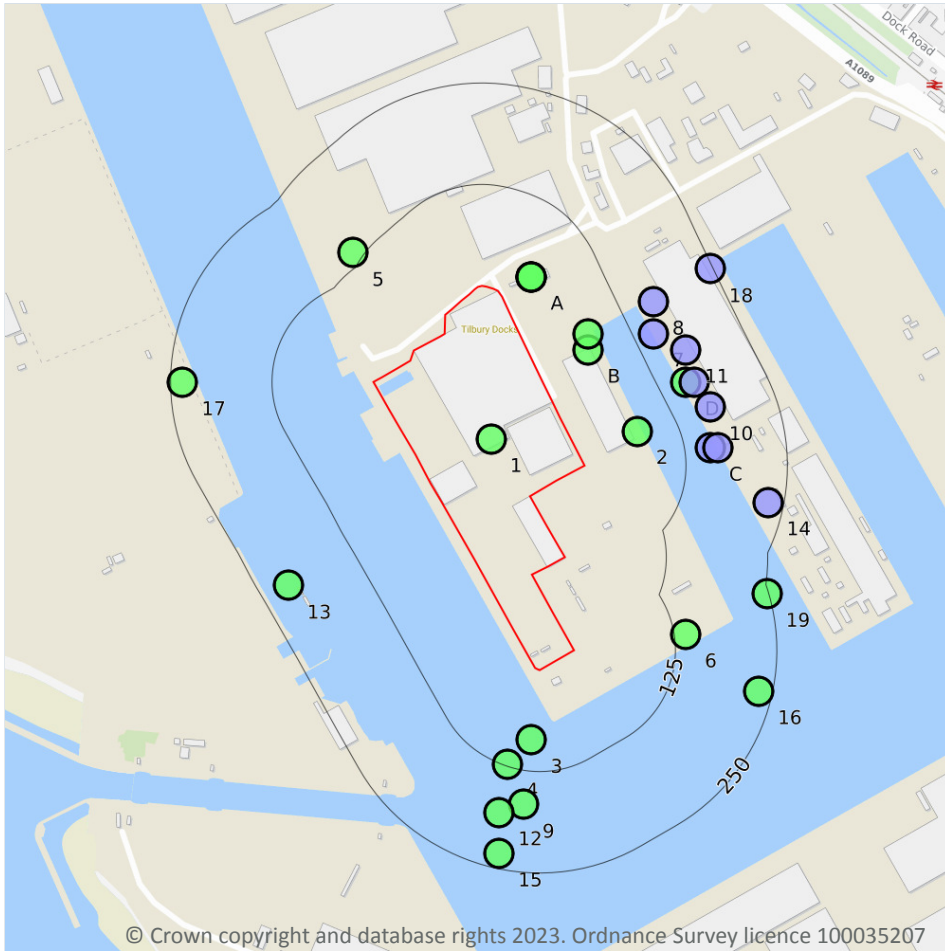
15.10 Bedrock faults and other linear features (50k)

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

28

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 105 >](#)

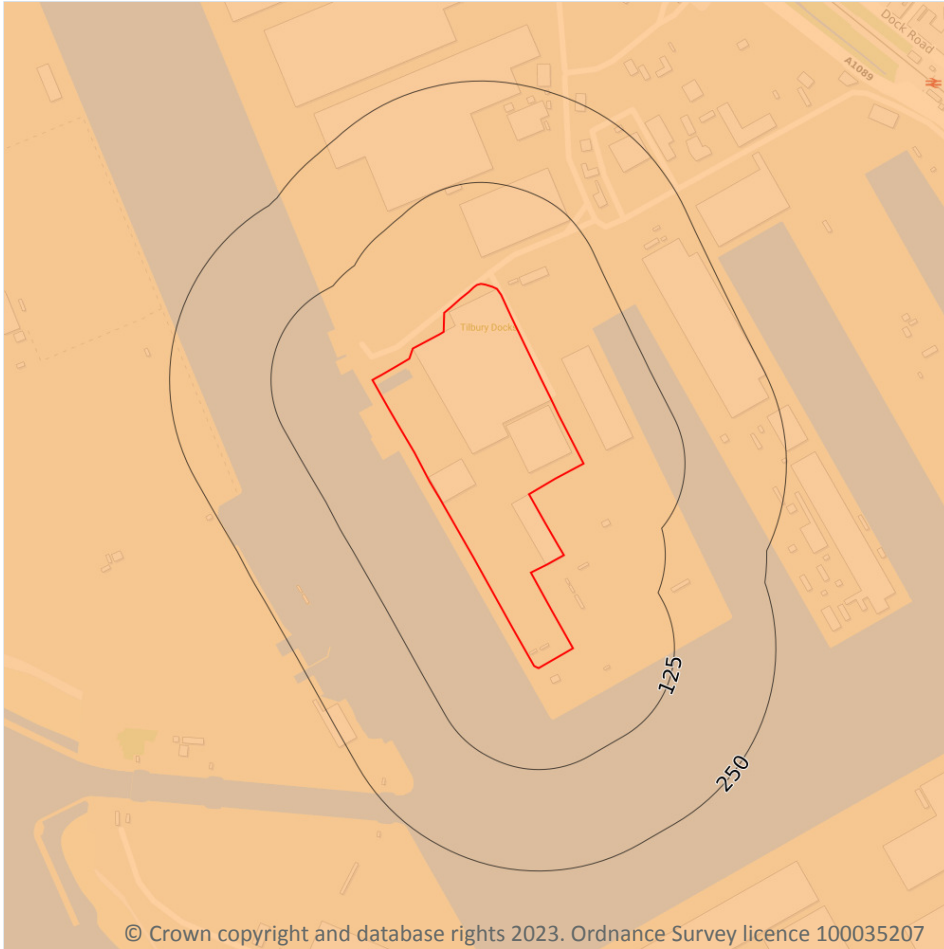
ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	563080 175900	TILBURY DOCKS 3	12.64	N	815130 ↗
A	44m N	563130 176100	TILBURY WESTERN PENINSULA A	30.0	N	15624874 ↗

ID	Location	Grid reference	Name	Length	Confidential	Web link
A	44m N	563130 176100	TILBURY WESTERN PENINSULA B	30.0	N	15624875 ↗
A	44m N	563130 176100	TILBURY WESTERN PENINSULA C	30.0	N	15624876 ↗
B	68m NE	563200 176010	EAST AND WEST INDIA DOCK EXTENSION VI	10.05	N	815245 ↗
B	77m NE	563200 176030	EAST AND WEST INDIA DOCK EXTENSION 30	18.28	N	815205 ↗
2	77m E	563260 175910	EAST AND WEST INDIA DOCK EXTENSION VII	10.36	N	815244 ↗
3	86m S	563130 175530	TILBURY DOCKS 9	24.76	N	815136 ↗
4	122m S	563100 175500	TILBURY DOCKS 10	23.62	N	815137 ↗
5	137m NW	562910 176130	TILBURY DOCKS 4	12.87	N	815131 ↗
6	139m SE	563320 175660	TILBURY DOCKS 2	16.45	N	815129 ↗
7	149m NE	563280 176030	BULK STORAGE FACILITY PORT OF TILBURY TP 02	3.0	N	815326 ↗
C	156m E	563350 175890	BULK STORAGE FACILITY PORT OF TILBURY TP 06	3.0	N	815330 ↗
D	158m E	563320 175970	EAST AND WEST INDIA DOCK EXTENSION V	10.05	N	815246 ↗
8	166m NE	563280 176070	BULK STORAGE FACILITY PORT OF TILBURY TP 01	2.0	N	815325 ↗
C	166m E	563360 175890	EAST AND WEST INDIA DOCK EXTENSION IV	8.22	N	815247 ↗
D	167m E	563330 175970	BULK STORAGE FACILITY PORT OF TILBURY TP 04	3.0	N	815328 ↗
9	167m S	563120 175450	TRILBURY MAIN DOCK EXTENSION	17.67	N	815100 ↗
10	171m E	563350 175940	BULK STORAGE FACILITY PORT OF TILBURY TP 05	3.0	N	815329 ↗
11	176m NE	563320 176010	BULK STORAGE FACILITY PORT OF TILBURY TP 03	2.0	N	815327 ↗
12	183m S	563090 175440	TILBURY DOCKS 11	24.68	N	815138 ↗
13	215m SW	562830 175720	TILBURY DOCKS 8	15.92	N	815135 ↗
14	230m E	563421 175822	CEMENT GRINDING TERMINAL PORT OF TILBURY TP4	3.0	N	18356554 ↗
15	231m S	563090 175390	TRILBURY MAIN DOCK EXTENSION	16.91	N	815099 ↗
16	233m SE	563410 175590	TILBURY DOCKS 1	22.63	N	815128 ↗
17	235m W	562700 175970	TILBURY DOCKS 7	15.84	N	815134 ↗
18	246m NE	563350 176110	EAST AND WEST INDIA DOCK EXTENSION 15A	9.9	N	815227 ↗
19	248m SE	563420 175710	EAST AND WEST INDIA DOCK EXTENSION 5	10.66	N	815180 ↗

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



— Site Outline
Search buffers in metres (m)

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

17.1 Shrink swell clays

Records within 50m

1

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).

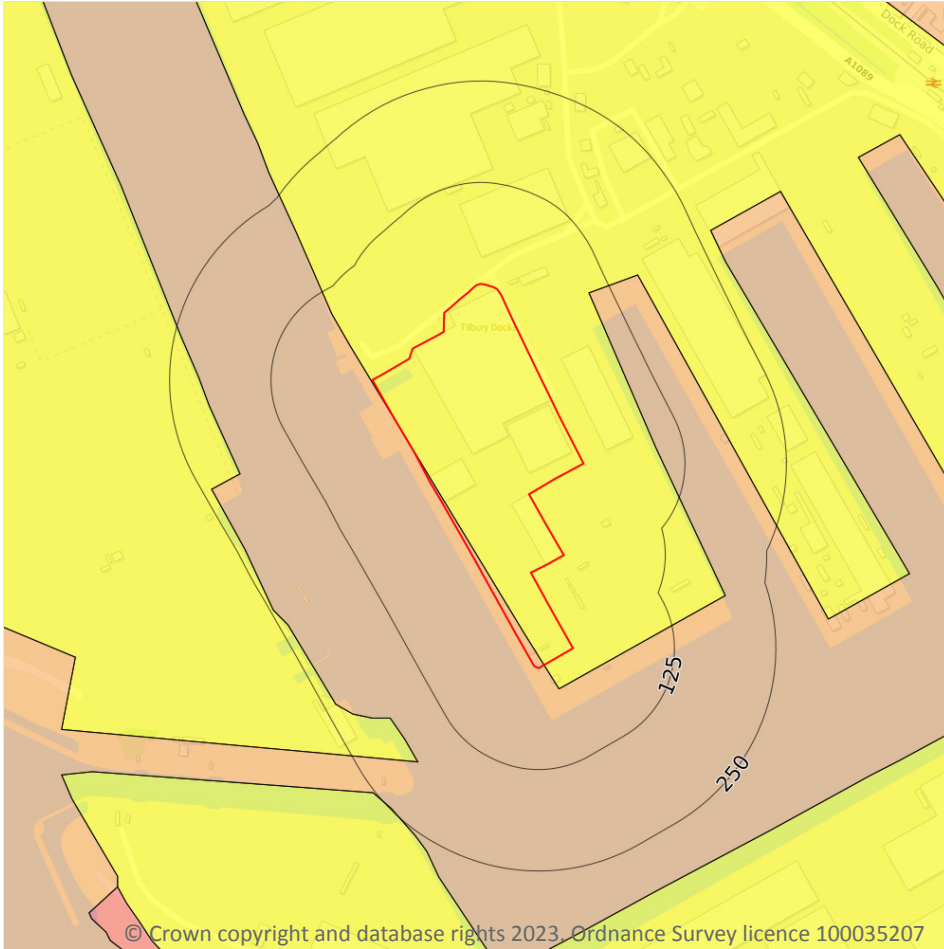
Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 107](#) >

Location	Hazard rating	Details
On site	Low	Ground conditions predominantly medium plasticity.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



— Site Outline
Search buffers in metres (m)

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

17.2 Running sands

Records within 50m

2

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 108](#) >

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

Location	Hazard rating	Details
On site	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



— Site Outline
Search buffers in metres (m)

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

17.3 Compressible deposits

Records within 50m

2

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

Features are displayed on the Natural ground subsidence - Compressible deposits map on [page 110](#) >

Location	Hazard rating	Details
On site	Very low	Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses.
On site	High	Highly compressible strata present. Significant constraint on land use depending on thickness.



This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



— Site Outline
Search buffers in metres (m)

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

17.4 Collapsible deposits

Records within 50m

1

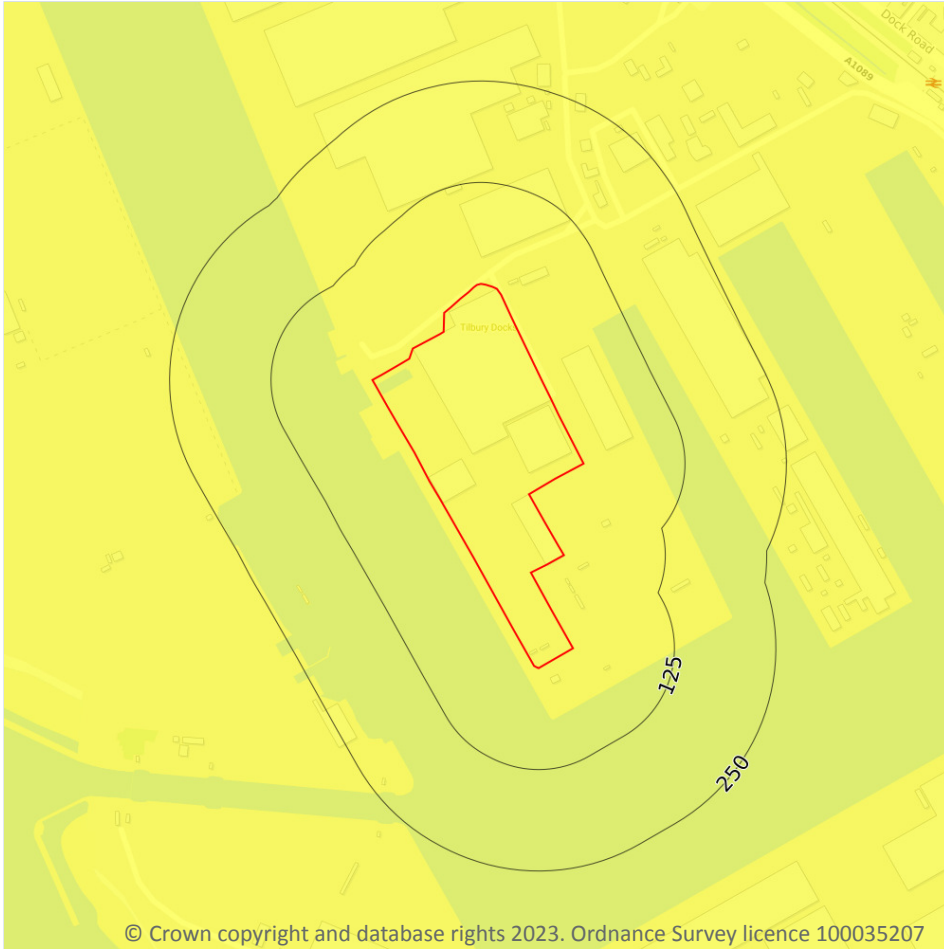
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 112 >](#)

Location	Hazard rating	Details
On site	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



— Site Outline
Search buffers in metres (m)

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

17.5 Landslides

Records within 50m

1

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

Features are displayed on the Natural ground subsidence - Landslides map on [page 113](#) >

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



— Site Outline
Search buffers in metres (m)

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

17.6 Ground dissolution of soluble rocks

Records within 50m

1

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

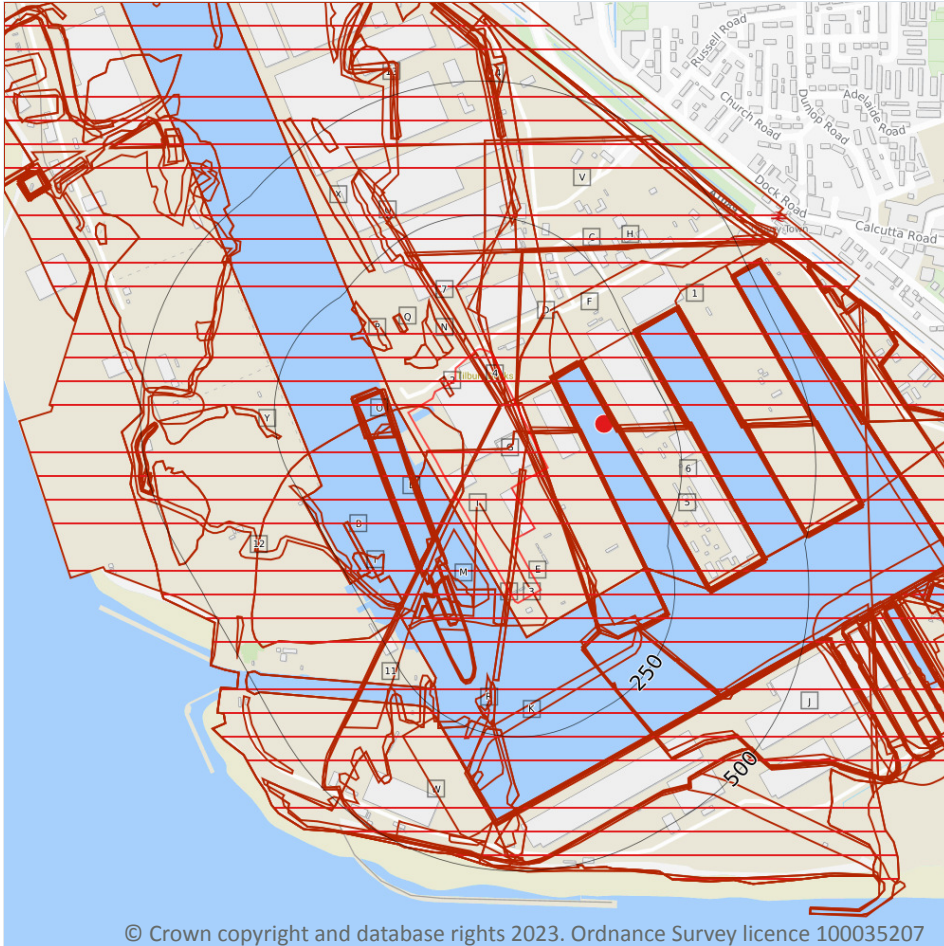
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on [page 114 >](#)

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

This data is sourced from the British Geological Survey.



18 Mining and ground workings



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

18.1 BritPits

Records within 500m

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 116](#) >

ID	Location	Details	Description
9	130m E	Name: Tilbury Docks Address: Tilbury Docks, TILBURY, Essex Commodity: Crushed Rock Status: Active	Type: Sea, river or canal wharf where mineral commodities are unloaded and stored Status description: Site which is actively extracting mineral products, or in the case of wharfs and rail depots, is actively handing minerals



This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m

91

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 116 >](#)

ID	Location	Land Use	Year of mapping	Mapping scale
1	On site	Docks	1955	1:10560
2	On site	Pond	1955	1:10560
3	On site	Dock	1923	1:10560
4	On site	Refuse Heap	1946	1:10560
5	On site	Docks	1916	1:10560
6	On site	Unspecified Docks	1888	1:10560
A	On site	Unspecified Pits	1955	1:10560
A	On site	Unspecified Heap	1938	1:10560
A	On site	Unspecified Heap	1938	1:10560
B	On site	Unspecified Pit	1955	1:10560
B	On site	Unspecified Pit	1966	1:10560
C	On site	Docks	1938	1:10560
C	On site	Docks	1895	1:10560
C	On site	Docks	1938	1:10560
C	On site	Docks	1938	1:10560
D	On site	Docks	1938	1:10560
D	On site	Docks	1938	1:10560
D	On site	Docks	1946	1:10560
E	On site	Docks	1932	1:10560
E	On site	Dock	1895	1:10560
F	On site	Docks	1907	1:10560
F	On site	Docks	1895	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
G	On site	Dock	1993	1:10000
G	On site	Docks	1982	1:10000
G	On site	Unspecified Disused Wharf	1982	1:10000
G	On site	Unspecified Disused Wharf	1973	1:10000
H	On site	Unspecified Dock	1898	1:10560
H	On site	Unspecified Dock	1898	1:10560
I	On site	Unspecified Docks	1898	1:10560
I	On site	Unspecified Docks	1898	1:10560
J	On site	Unspecified Dock	1898	1:10560
J	On site	Unspecified Dock	1898	1:10560
K	13m SW	Docks	1992	1:10000
K	13m SW	Dock	1993	1:10000
K	13m SW	Dock	1973	1:10000
7	27m N	Refuse Heap	1946	1:10560
L	28m NW	Pond	1888	1:10560
L	28m NW	Water Body	1907	1:10560
L	28m NW	Water Body	1895	1:10560
M	29m S	Pond	1966	1:10560
N	30m N	Pond	1955	1:10560
N	30m N	Pond	1966	1:10560
L	32m NW	Water Body	1932	1:10560
L	33m NW	Pond	1923	1:10560
L	34m NW	Pond	1946	1:10560
N	35m NW	Ponds	1955	1:10560
L	35m NW	Pond	1938	1:10560
L	36m W	Pond	1955	1:10560
L	36m W	Pond	1966	1:10560
L	36m W	Water Body	1895	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
L	36m NW	Water Body	1916	1:10560
O	38m NW	Pond	1895	1:10560
L	38m W	Pond	1938	1:10560
O	39m NW	Pond	1898	1:10560
O	39m NW	Pond	1898	1:10560
M	65m S	Pond	1955	1:10560
M	85m S	Water Body	1932	1:10560
M	87m S	Pond	1946	1:10560
M	88m S	Pond	1923	1:10560
M	88m S	Pond	1938	1:10560
M	90m S	Pond	1916	1:10560
P	115m NW	Pond	1966	1:10560
Q	115m NW	Cuttings	1966	1:10560
Q	116m NW	Cuttings	1955	1:10560
P	119m NW	Pond	1955	1:10560
8	121m SE	Dock	1895	1:10560
10	143m NE	Dock	1923	1:10560
R	147m S	Ponds	1895	1:10560
S	155m E	Unspecified Dock	1898	1:10560
S	155m E	Unspecified Dock	1898	1:10560
R	155m S	Ponds	1907	1:10560
R	155m S	Ponds	1895	1:10560
S	156m E	Dock	1895	1:10560
T	171m SW	Pond	1955	1:10560
T	171m SW	Pond	1966	1:10560
11	172m SW	Cuttings	1938	1:10560
U	181m N	Pond	1955	1:10560
U	181m N	Pond	1966	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
12	186m SW	Refuse Heap	1946	1:10560
B	186m SW	Unspecified Ground Workings	1966	1:10560
V	192m N	Docks	1938	1:10560
V	192m N	Docks	1938	1:10560
13	207m N	Refuse	1947	1:10560
W	215m S	Unspecified Ground Workings	1895	1:10560
W	216m S	Unspecified Ground Workings	1907	1:10560
W	216m S	Unspecified Ground Workings	1895	1:10560
X	238m NW	Cuttings	1955	1:10560
X	238m NW	Cuttings	1966	1:10560
14	240m N	Refuse	1947	1:10560
Y	242m W	Unspecified Pit	1955	1:10560
Y	242m W	Unspecified Pit	1966	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

0

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

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

0

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

This data is sourced from the British Geological Survey.

18.7 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

0

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.

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

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

0

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

This data is sourced from Stantec UK Ltd.

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 126 >](#)

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

6

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

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 km²).

This data is sourced from the British Geological Survey.



21.3 BGS Measured Urban Soil Chemistry

Records within 50m

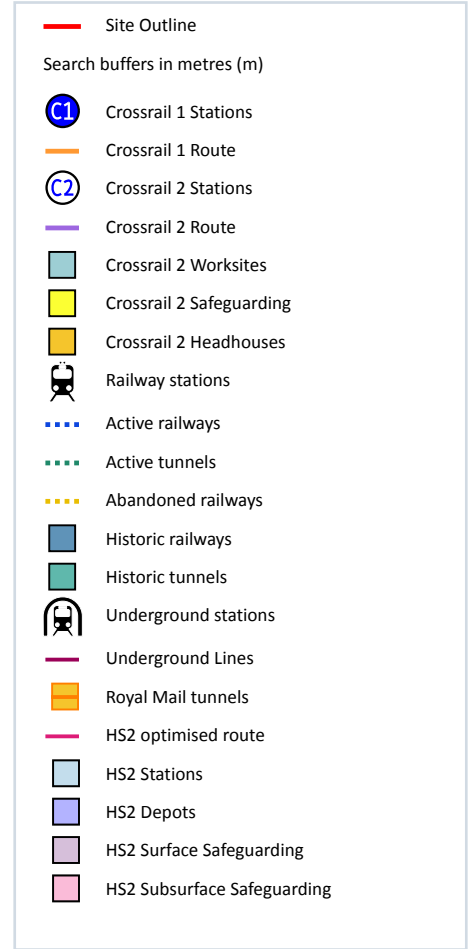
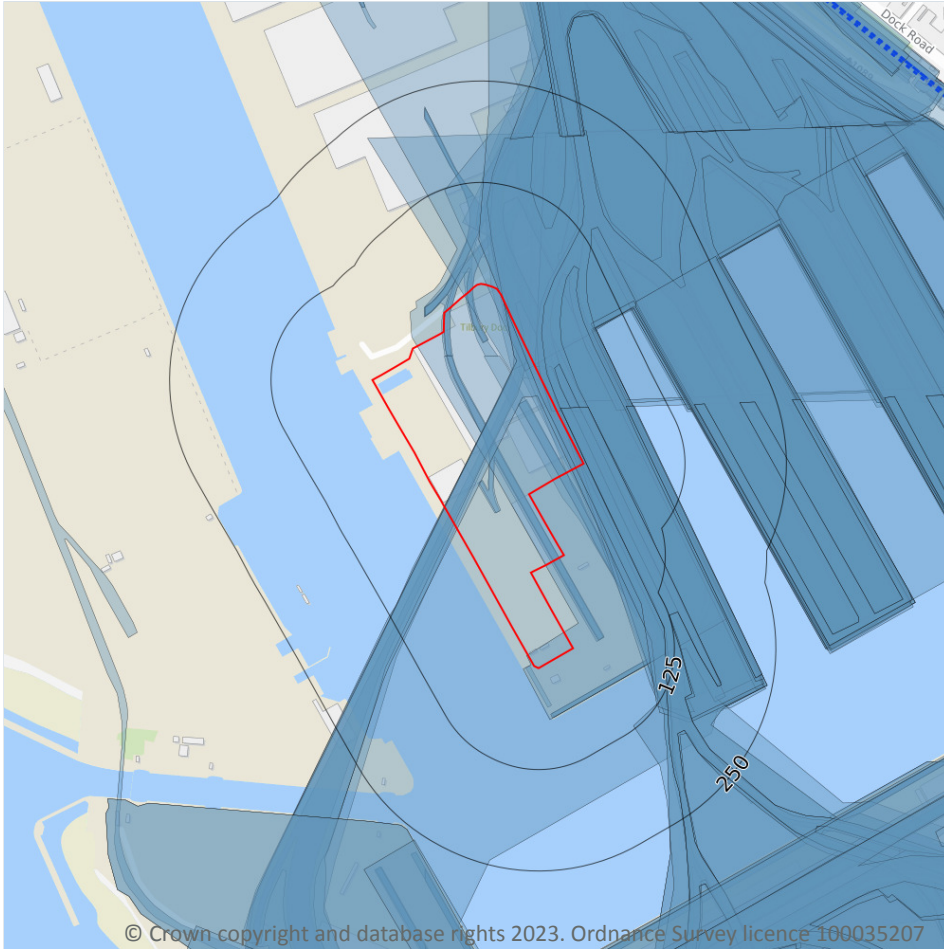
0

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 km².

This data is sourced from the British Geological Survey.



22 Railway infrastructure and projects



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

53

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 130 >](#)

Location	Land Use	Year of mapping	Mapping scale
On site	Railway Sidings	1920	2500
On site	Railway Sidings	1964	1250
On site	Railway Sidings	1970	1250
On site	Railway Sidings	1961	1250
On site	Railway Sidings	1971	1250
On site	Railway Sidings	1971	2500
On site	Railway Sidings	1970	2500
On site	Railway Sidings	1897	2500
On site	Railway Sidings	1938	10560
On site	Railway Sidings	1923	10560
On site	Railway Sidings	1895	10560
On site	Railway Sidings	1946	10560
On site	Railway Sidings	1932	10560
On site	Railway Sidings	1907	10560
On site	Railway Sidings	1916	10560
On site	Railway Sidings	1898	10560
On site	Railway Sidings	1955	10560



Location	Land Use	Year of mapping	Mapping scale
On site	Railway Sidings	1966	10560
0m E	Railway Sidings	1898	2500
3m E	Railway Sidings	1888	10560
3m E	Railway Sidings	1898	10560
5m S	Railway Sidings	1964	1250
12m N	Railway Sidings	1950	1250
13m N	Railway Sidings	1951	2500
20m E	Railway Sidings	1964	1250
20m E	Railway Sidings	1970	1250
21m NE	Railway Sidings	1950	2500
22m NE	Railway Sidings	1950	1250
55m E	Railway Sidings	1970	2500
55m E	Railway Sidings	1970	1250
72m E	Railway Sidings	1950	2500
73m E	Railway Sidings	1950	1250
78m E	Railway Sidings	1898	10560
106m N	Railway Sidings	1961	1250
141m NE	Railway	1897	-
143m NE	Railway Sidings	1923	10560
145m NE	Railway	1920	-
149m NE	Railway Sidings	1970	2500
149m NE	Railway Sidings	1950	2500
149m NE	Railway Sidings	1964	1250
149m NE	Railway Sidings	1970	1250
149m NE	Railway Sidings	1950	1250
155m E	Railway Sidings	1898	10560
159m NE	Railway	1920	-
181m N	Railway Sidings	1947	10560



Location	Land Use	Year of mapping	Mapping scale
200m NE	Railway Sidings	1970	2500
200m NE	Railway Sidings	1950	2500
203m N	Railway Sidings	1907	10560
203m N	Railway Sidings	1895	10560
204m N	Railway Sidings	1938	10560
206m NE	Railway	1897	-
208m N	Railway Sidings	1888	10560
226m E	Railway Sidings	1950	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

0

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways.

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/> ↗.

