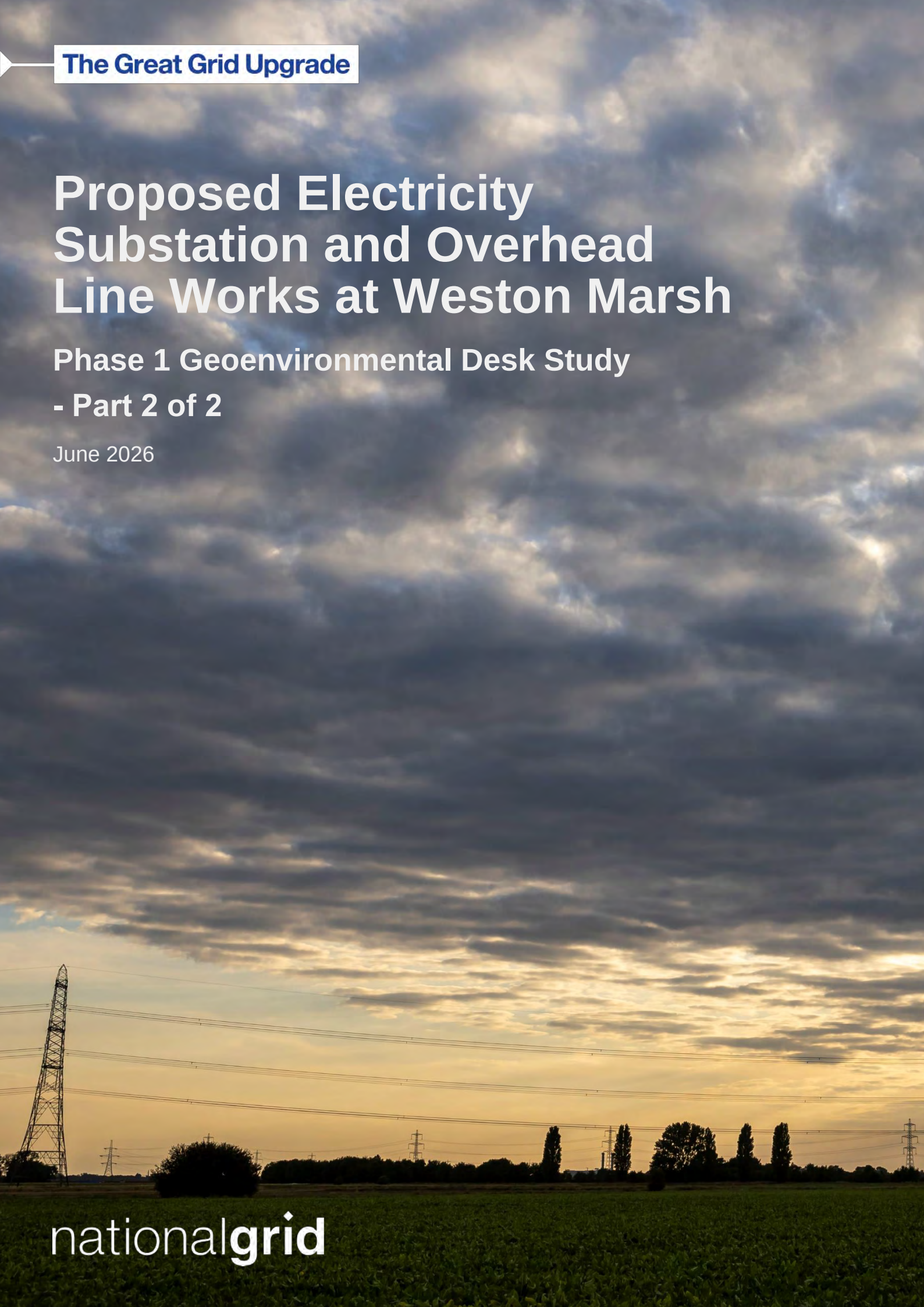
The Great Grid Upgrade

Proposed Electricity Substation and Overhead Line Works at Weston Marsh

Phase 1 Geoenvironmental Desk Study

- Part 2 of 2

June 2026



nationalgrid

Proposed Electricity Substation and Overhead Line Works at Weston Marsh
Document control

Document Properties	
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Document	Version	Status	Description / Changes
May 2026	1.0	Final	First Issue
June 2026	2.0	Final	Second Issue – minor update to cross references

Contents

Appendices

Appendix A Groundsure Report

Groundsure
LOCATION INTELLIGENCE

Enviro
Insight

WESTON MARSH SUBSTATION, PE13 5LF

Order Details

Date: 06/02/2026

Your ref: 440.V12844.00WA1 PO MF-23935

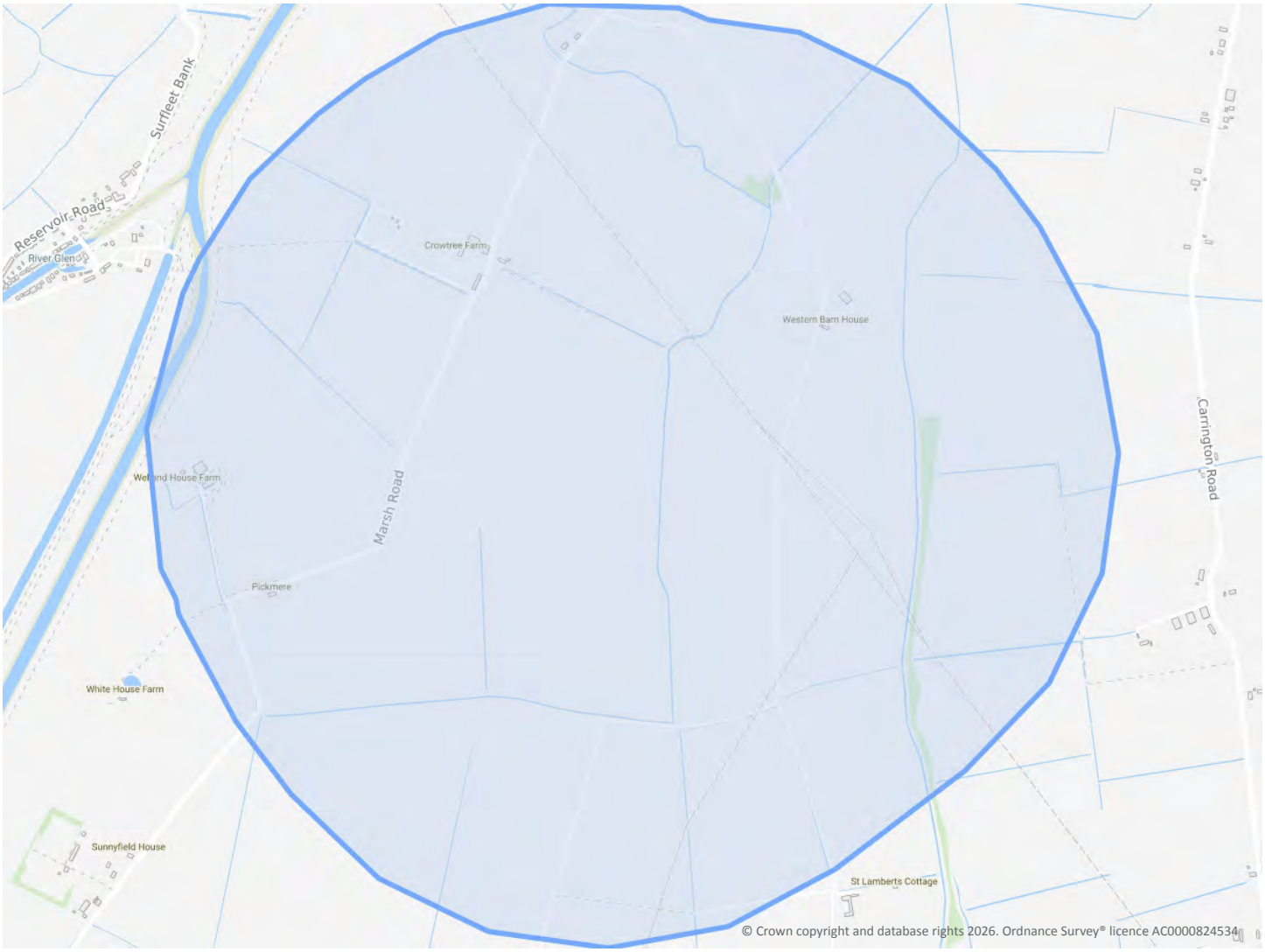
Our Ref: GS-EFR-FOE-CIC-U9V

Site Details

Location: 529378 328697

Area: 462.15 ha

Authority: South Holland District Council ↗



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

Certified B Corporation

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
11 >	1.1 >	Historical industrial land uses >	10	0	7	8	-
13 >	1.2 >	Historical tanks >	0	1	0	1	-
13	1.3	Historical energy features	0	0	0	0	-
13	1.4	Historical petrol stations	0	0	0	0	-
14	1.5	Historical garages	0	0	0	0	-
14	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
15 >	2.1 >	Historical industrial land uses >	10	0	8	8	-
17 >	2.2 >	Historical tanks >	0	1	0	1	-
17	2.3	Historical energy features	0	0	0	0	-
17	2.4	Historical petrol stations	0	0	0	0	-
17	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
18	3.1	Active or recent landfill	0	0	0	0	-
18	3.2	Historical landfill (BGS records)	0	0	0	0	-
19	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
19	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
19	3.5	Historical waste sites	0	0	0	0	-
19	3.6	Licensed waste sites	0	0	0	0	-
19 >	3.7 >	Waste exemptions >	99	0	3	40	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
31 >	4.1 >	Recent industrial land uses >	10	1	4	-	-
32	4.2	National Geographic Database (NGD) - Current or recent tanks	0	0	0	-	-
33	4.3	Current or recent petrol stations	0	0	0	0	-
33	4.4	Electricity cables	0	0	0	0	-
33	4.5	Gas pipelines	0	0	0	0	-

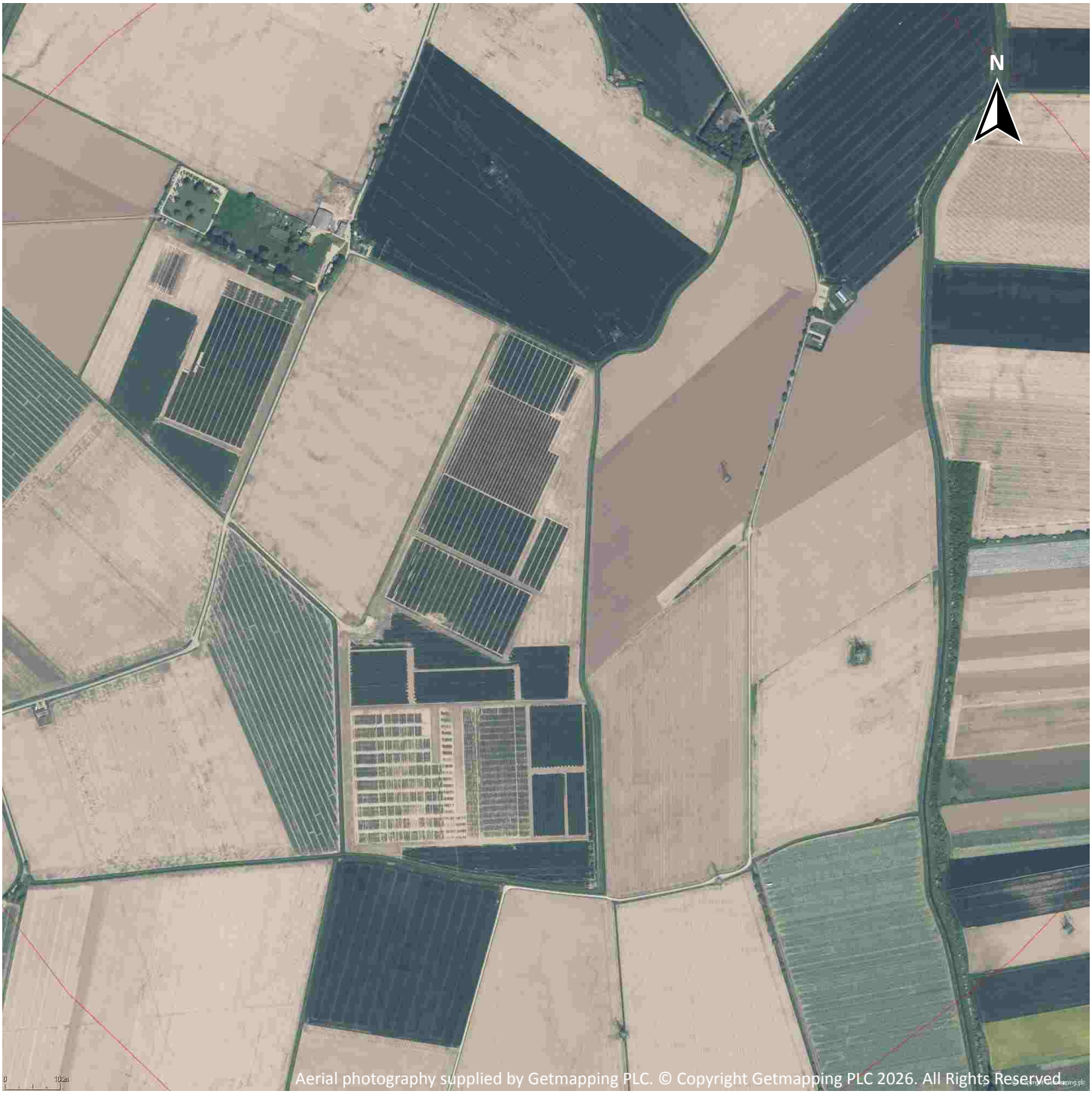
33	4.6	Sites determined as Contaminated Land	0	0	0	0	-
33	4.7	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
34	4.8	Regulated explosive sites	0	0	0	0	-
34	4.9	Hazardous substance storage/usage	0	0	0	0	-
34	4.10	Historical licensed industrial activities (IPC)	0	0	0	0	-
34	4.11	Licensed industrial activities (Part A(1))	0	0	0	0	-
34	4.12	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
35	4.13	Radioactive Substance Authorisations	0	0	0	0	-
35 >	**4.14 >**	**Licensed Discharges to controlled waters >**	0	0	1	8	-
36	4.15	Pollutant release to surface waters (Red List)	0	0	0	0	-
37	4.16	Pollutant release to public sewer	0	0	0	0	-
37	4.17	List 1 Dangerous Substances	0	0	0	0	-
37	4.18	List 2 Dangerous Substances	0	0	0	0	-
37	4.19	Pollution Incidents (EA/NRW)	0	0	0	0	-
37	4.20	Pollution inventory substances	0	0	0	0	-
38	4.21	Pollution inventory waste transfers	0	0	0	0	-
38	4.22	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	**Geology (basic) >**					
39 >	**5.1 >**	**Superficial geology (625k) >**	Identified (within 500m)				
39 >	**5.2 >**	**Bedrock geology (625k) >**	Identified (within 500m)				
Page	Section	**Hydrogeology >**	On site	0-50m	50-250m	250-500m	500-2000m
40 >	**6.1 >**	**Superficial aquifer >**	Identified (within 500m)				
42 >	**6.2 >**	**Bedrock aquifer >**	Identified (within 500m)				
44 >	**6.3 >**	**Groundwater vulnerability >**	Identified (within 50m)				
46	6.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
47	6.5	Groundwater vulnerability- local information	None (within 0m)				
48	6.6	Groundwater abstractions	0	0	0	0	0
49 >	**6.7 >**	**Surface water abstractions >**	0	0	0	4	18
53	6.8	Potable abstractions	0	0	0	0	0

54	6.9	Source Protection Zones	0	0	0	0	-
54	6.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	**Hydrology >**	On site	0-50m	50-250m	250-500m	500-2000m
55 >	7.1 >	Water Network (OS MasterMap) >	51	3	30	-	-
62 >	7.2 >	Surface water features >	1	1	16	-	-
62 >	7.3 >	WFD Surface water body catchments >	2	-	-	-	-
63 >	7.4 >	WFD Surface water bodies >	2	0	0	-	-
63	7.5	WFD Groundwater bodies	0	-	-	-	-
Page	Section	**River and coastal flooding >**	On site	0-50m	50-250m	250-500m	500-2000m
64 >	8.1 >	Risk of flooding from rivers and the sea >	High (within 50m)				
65 >	8.2 >	Historical Flood Events >	0	0	1	-	-
65 >	8.3 >	Flood Defences >	2	2	14	-	-
66	8.4	Areas Benefiting from Flood Defences	0	0	0	-	-
66 >	8.5 >	Flood Storage Areas >	0	0	1	-	-
68 >	8.6 >	Flood Zone 2 >	Identified (within 50m)				
69 >	8.7 >	Flood Zone 3 >	Identified (within 50m)				
Page	Section	**Surface water flooding >**					
70 >	9.1 >	Surface water flooding >	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	**Groundwater flooding >**					
72 >	10.1 >	Groundwater flooding >	Negligible (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
73	11.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
73	11.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
73	11.3	Special Areas of Conservation (SAC)	0	0	0	0	0
73	11.4	Special Protection Areas (SPA)	0	0	0	0	0
74	11.5	National Nature Reserves (NNR)	0	0	0	0	0
74	11.6	Local Nature Reserves (LNR)	0	0	0	0	0
74	11.7	Designated Ancient Woodland	0	0	0	0	0
74	11.8	Biosphere Reserves	0	0	0	0	0

75	11.9	Forest Parks	0	0	0	0	0
75	11.10	Marine Conservation Zones	0	0	0	0	0
75	11.11	Green Belt	0	0	0	0	0
75	11.12	Proposed Ramsar sites	0	0	0	0	0
75	11.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
76	11.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
76	11.15	Nitrate Sensitive Areas	0	0	0	0	0
76 >	**11.16 >**	**Nitrate Vulnerable Zones >**	0	0	3	1	0
77 >	**11.17 >**	**SSSI Impact Risk Zones >**	3	-	-	-	-
78	11.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
79	12.1	World Heritage Sites	0	0	0	-	-
79	12.2	Area of Outstanding Natural Beauty	0	0	0	-	-
79	12.3	National Parks	0	0	0	-	-
79	12.4	Listed Buildings	0	0	0	-	-
80	12.5	Conservation Areas	0	0	0	-	-
80	12.6	Scheduled Ancient Monuments	0	0	0	-	-
80	12.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	**Agricultural designations >**	On site	0-50m	50-250m	250-500m	500-2000m
81 >	**13.1 >**	**Agricultural Land Classification >**	Grade 1 (within 250m)				
82	13.2	Open Access Land	0	0	0	-	-
82	13.3	Tree Felling Licences	0	0	0	-	-
82	13.4	Environmental Stewardship Schemes	0	0	0	-	-
82 >	**13.5 >**	**Countryside Stewardship Schemes >**	1	0	0	-	-
Page	Section	**Habitat designations >**	On site	0-50m	50-250m	250-500m	500-2000m
83 >	**14.1 >**	**Priority Habitat Inventory >**	8	3	8	-	-
84 >	**14.2 >**	**Habitat Networks >**	4	1	17	-	-
85	14.3	Open Mosaic Habitat	0	0	0	-	-
86	14.4	Limestone Pavement Orders	0	0	0	-	-

Recent aerial photograph



Capture Date: 29/05/2021

Site Area: 462.15ha

Recent site history - 2018 aerial photograph

Capture Date: 20/04/2018

Site Area: 462.15ha

Recent site history - 2015 aerial photograph

Capture Date: 18/07/2015

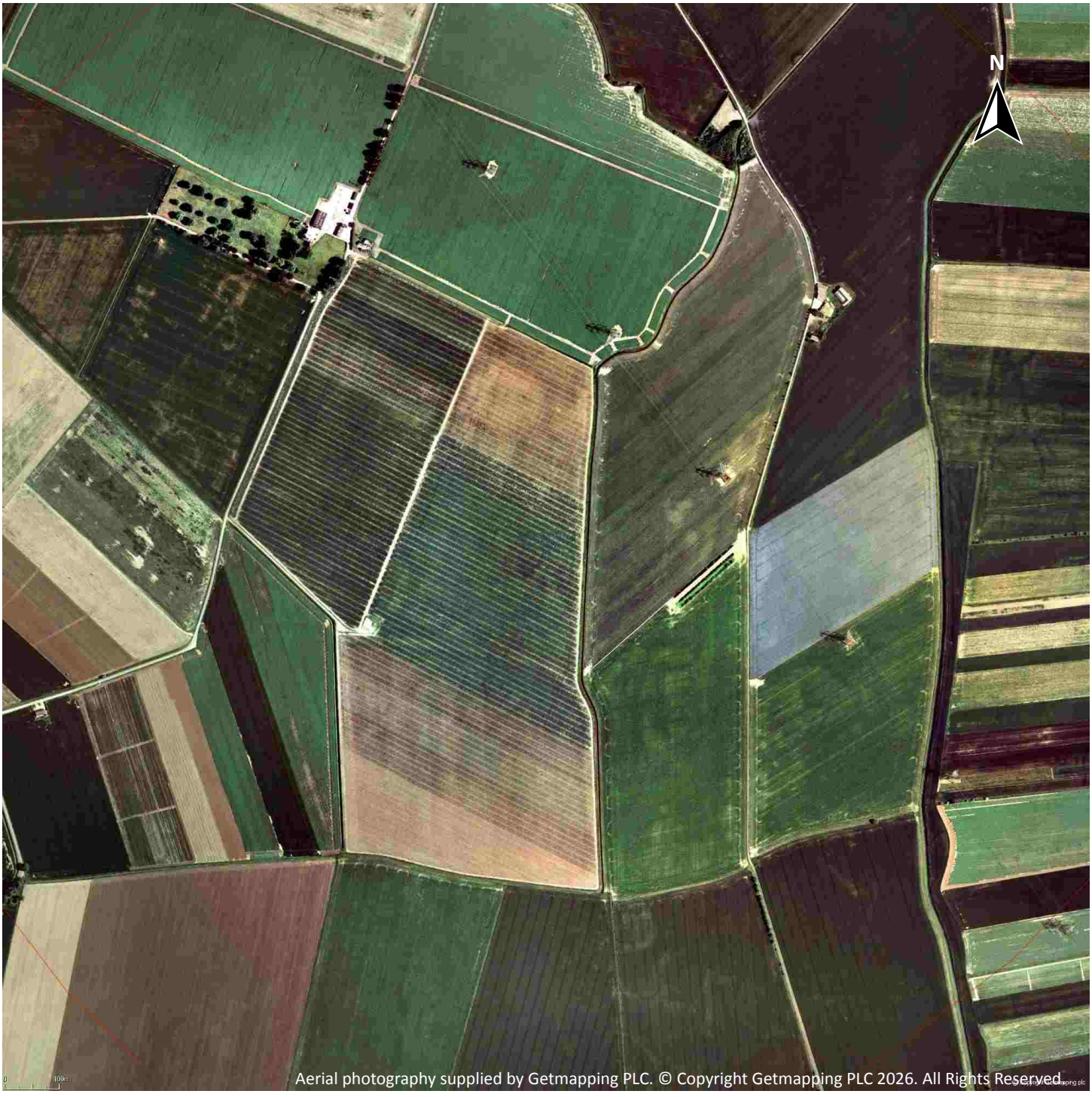
Site Area: 462.15ha

Recent site history - 2007 aerial photograph

Capture Date: 12/09/2007

Site Area: 462.15ha

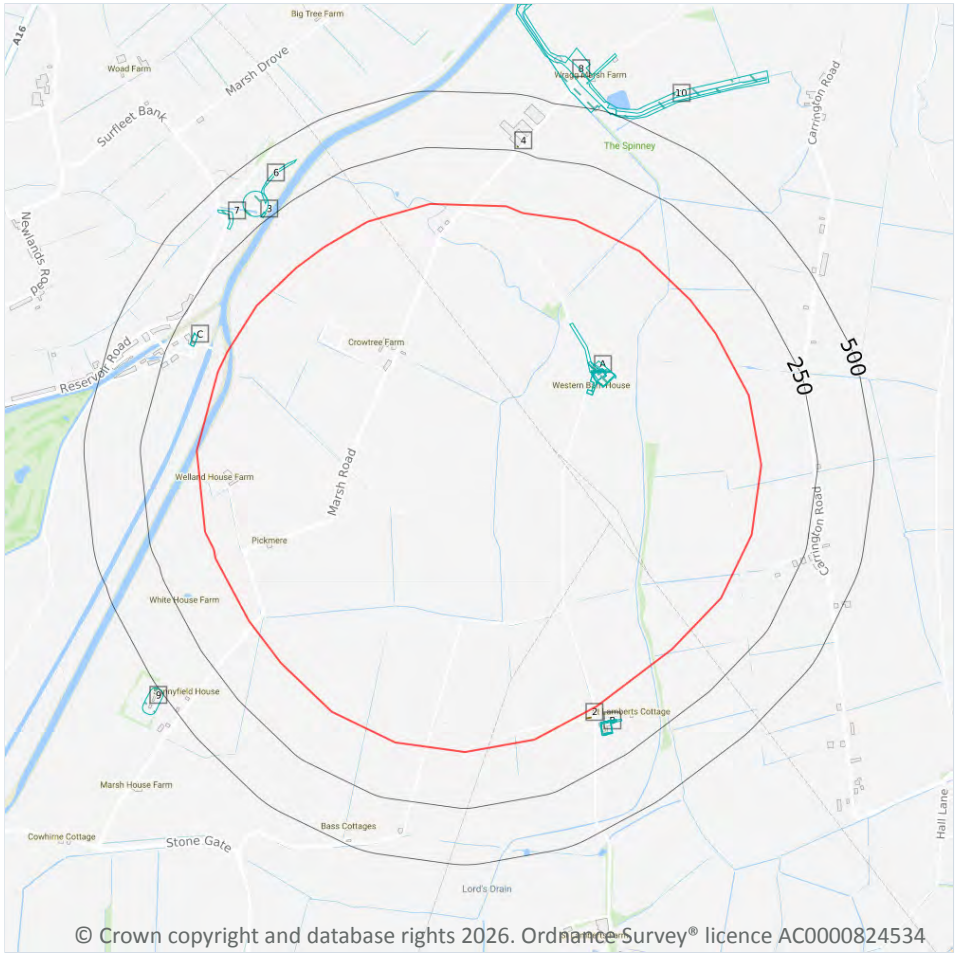
Recent site history - 1999 aerial photograph



Capture Date: 18/06/1999

Site Area: 462.15ha

1 Past land use



Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

1.1 Historical industrial land uses

Records within 500m	25

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 11 >**

ID	Location	Land use	Dates present	Group ID
1	**On site**	**Tramway Sidings**	**1932**	**2055894**

ID	Location	Land use	Dates present	Group ID
A	**On site**	**Railway Building**	**1947**	**2042241**
A	**On site**	**Unspecified Yard**	**1886**	**2043787**
A	**On site**	**Unspecified Yard**	**1950**	**2045684**
A	**On site**	**Unspecified Yard**	**1956**	**2051122**
A	**On site**	**Unspecified Yard**	**1906**	**2057938**
A	**On site**	**Unspecified Yard**	**1975**	**2060445**
A	**On site**	**Tramway Sidings**	**1947**	**2060653**
A	**On site**	**Unspecified Yard**	**1989**	**2060971**
A	**On site**	**Unspecified Yard**	**1887**	**2064175**
B	72m SE	Unspecified Yard	1975	2051063
B	72m SE	Unspecified Yard	1989	2052299
B	72m SE	Unspecified Yard	1956	2065017
B	73m SE	Unspecified Yard	1906 - 1950	2069209
B	79m SE	Unspecified Yard	1887	2056424
C	145m NW	Unspecified Ground Workings	1947	2059497
C	145m NW	Unspecified Ground Workings	1903	2064696
3	266m NW	Pumping Station	1989	2069855
5	279m NW	Pumping Station	1975	2061917
6	311m NW	Unspecified Heap	1886	2037854
7	327m NW	Unspecified Heap	1886	2037852
8	483m N	Railway Sidings	1950	2035386
9	496m SW	Nursery	1975	2060210
10	496m N	Tramway Sidings	1932	2071393
11	498m N	Tramway Sidings	1955	2057693

This data is sourced from Ordnance Survey® / Groundsure.

1.2 Historical tanks

Records within 500m	2

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

Features are displayed on the Past land use map on **page 11 >**

ID	Location	Land use	Dates present	Group ID
2	25m SE	Unspecified Tank	1973	356108
4	267m N	Unspecified Tank	1973	356106

This data is sourced from Ordnance Survey® / Groundsure.

1.3 Historical energy features

Records within 500m	0

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

This data is sourced from Ordnance Survey® / Groundsure.

1.4 Historical petrol stations

Records within 500m	0

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

This data is sourced from Ordnance Survey® / Groundsure.

1.5 Historical garages

Records within 500m	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 un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey® / Groundsure.

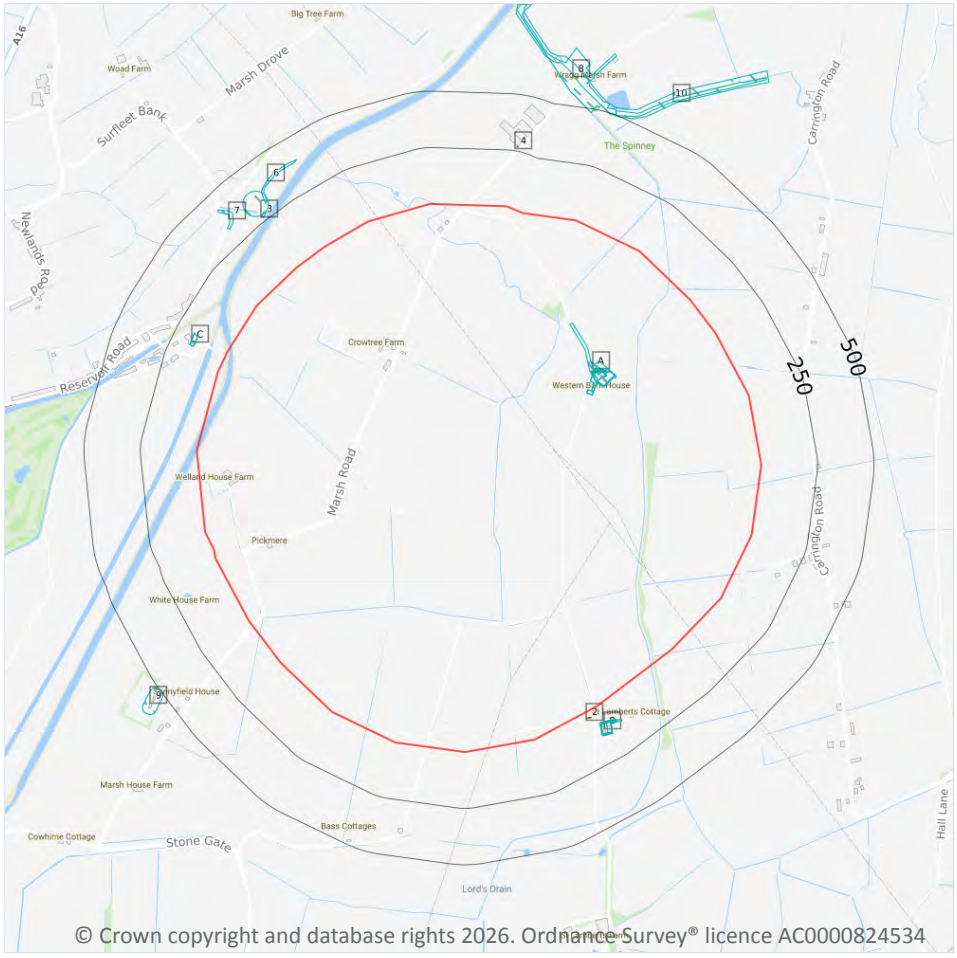
1.6 Historical military land

Records within 500m	0

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

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

2 Past land use - un-grouped



Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

2.1 Historical industrial land uses

Records within 500m	26

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 15 >**

ID	Location	Land Use	Date	Group ID
1	**On site**	**Tramway Sidings**	**1932**	**2055894**
A	**On site**	**Tramway Sidings**	**1947**	**2060653**
A	**On site**	**Railway Building**	**1947**	**2042241**

ID	Location	Land Use	Date	Group ID
A	**On site**	**Unspecified Yard**	**1906**	**2057938**
A	**On site**	**Unspecified Yard**	**1886**	**2043787**
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A	**On site**	**Unspecified Yard**	**1887**	**2064175**
A	**On site**	**Unspecified Yard**	**1989**	**2060971**
A	**On site**	**Unspecified Yard**	**1975**	**2060445**
A	**On site**	**Unspecified Yard**	**1956**	**2051122**
B	72m SE	Unspecified Yard	1989	2052299
B	72m SE	Unspecified Yard	1975	2051063
B	72m SE	Unspecified Yard	1956	2065017
B	73m SE	Unspecified Yard	1950	2069209
B	79m SE	Unspecified Yard	1906	2069209
B	79m SE	Unspecified Yard	1887	2056424
C	145m NW	Unspecified Ground Workings	1947	2059497
C	145m NW	Unspecified Ground Workings	1903	2064696
3	266m NW	Pumping Station	1989	2069855
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8	483m N	Railway Sidings	1950	2035386
9	496m SW	Nursery	1975	2060210
10	496m N	Tramway Sidings	1932	2071393
11	498m N	Tramway Sidings	1955	2057693

This data is sourced from Ordnance Survey® / Groundsure.

2.2 Historical tanks

Records within 500m	2

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 15 >**

ID	Location	Land Use	Date	Group ID
2	25m SE	Unspecified Tank	1973	356108
4	267m N	Unspecified Tank	1973	356106

This data is sourced from Ordnance Survey® / Groundsure.

2.3 Historical energy features

Records within 500m	0

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'.

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.

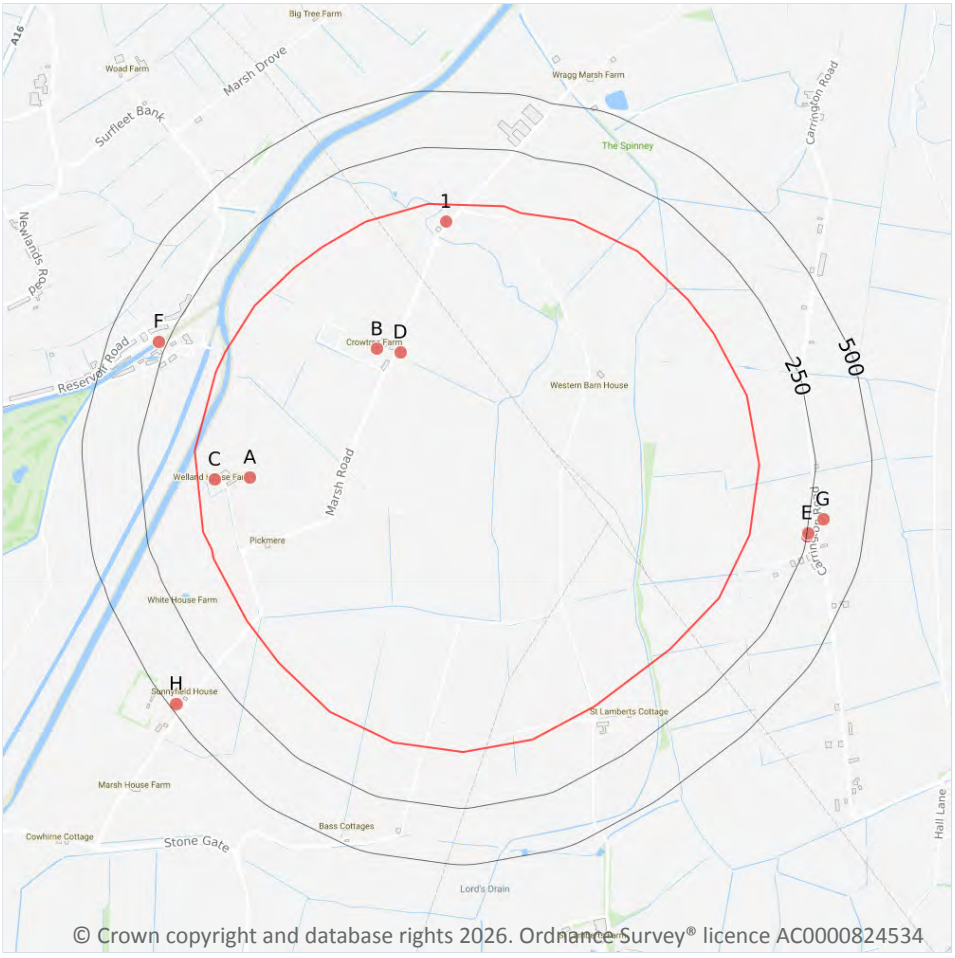
2.5 Historical garages

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



Site Outline

Search buffers in metres (m)

Waste exemptions

3.1 Active or recent landfill

Records within 500m	0

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

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

3.2 Historical landfill (BGS records)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m	0

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

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

3.5 Historical waste sites

Records within 500m	0

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

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

3.6 Licensed waste sites

Records within 500m	0

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

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

3.7 Waste exemptions

Records within 500m	142

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 18 >**

ID	Location	Site	Reference	Category	Sub-Category	Description
1	**On site**	**Wragg Marsh Farm, Marsh Road, Spalding Marsh, Spalding, Pe12 6hq**	**WEX450492**	**Disposing of waste exemption**	**On a farm**	**Burning waste in the open**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	On site	Welland House Farm Spalding Lincolnshire Pe12 6hf	EPR/CF0438GW/A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Deposit of waste from dredging of inland waters
A	On site	Welland House Farm Spalding Lincolnshire Pe12 6hf	EPR/CF0438GW/A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Deposit of waste from a portable sanitary convenience
A	On site	Welland House Farm Spalding Lincolnshire Pe12 6hf	EPR/CF0438GW/A001	Storing waste exemption	Both agricultural and non-agricultural waste	Storage of waste in secure containers
A	On site	Welland House Farm Spalding Lincolnshire Pe12 6hf	EPR/CF0438GW/A001	Storing waste exemption	Both agricultural and non-agricultural waste	Storage of waste in a secure place
A	On site	Welland House Farm Spalding Lincolnshire Pe12 6hf	EPR/CF0438GW/A001	Treating waste exemption	Both agricultural and non-agricultural waste	Cleaning, washing, spraying or coating relevant waste
A	On site	Welland House Farm Spalding Lincolnshire Pe12 6hf	EPR/CF0438GW/A001	Treating waste exemption	Both agricultural and non-agricultural waste	Aerobic composting and associated prior treatment
A	On site	Welland House Farm Spalding Lincolnshire Pe12 6hf	EPR/CF0438GW/A001	Treating waste exemption	Both agricultural and non-agricultural waste	Preparatory treatments (baling, sorting, shredding etc)
A	On site	Welland House Farm Spalding Lincolnshire Pe12 6hf	EPR/CF0438GW/A001	Treating waste exemption	Both agricultural and non-agricultural waste	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
A	On site	Welland House Farm Spalding Lincolnshire Pe12 6hf	EPR/CF0438GW/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste in construction

ID	Location	Site	Reference	Category	Sub-Category	Description
A	On site	Welland House Farm Spalding Lincolnshire Pe12 6hf	EPR/CF0438GW/A001	Using waste exemption	Both agricultural and non-agricultural waste	Burning of waste as a fuel in a small appliance
A	On site	Welland House Farm Spalding Lincolnshire Pe12 6hf	EPR/CF0438GW/A001	Storing waste exemption	Non-agricultural waste only	Storage of sludge
A	On site	Welland House Farm Spalding Lincolnshire Pe12 6hf	EPR/CF0438GW/A001	Disposing of waste exemption	Agricultural waste only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
A	On site	Welland House Farm Spalding Lincolnshire Pe12 6hf	EPR/CF0438GW/A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Disposal by incineration
A	On site	Welland House Farm Spalding Lincolnshire Pe12 6hf	EPR/CF0438GW/A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Burning waste in the open
A	On site	Welland House Farm Spalding Lincolnshire Pe12 6hf	EPR/CF0438GW/A001	Using waste exemption	Both agricultural and non-agricultural waste	Spreading waste on agricultural land to confer benefit
B	On site	Crowtree Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX055445	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
B	On site	Crowtree Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX055445	Disposing of waste exemption	On a farm	Disposal by incineration
B	On site	Crowtree Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX055445	Disposing of waste exemption	On a farm	Burning waste in the open
B	On site	Crowtree Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX055445	Treating waste exemption	On a farm	Screening and blending of waste
B	On site	Crowtree Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX055445	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit

ID	Location	Site	Reference	Category	Sub-Category	Description
B	On site	Crowtree Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX055445	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
B	On site	Crowtree Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX055445	Treating waste exemption	On a farm	Cleaning, washing, spraying or coating relevant waste
B	On site	Crowtree Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX055445	Treating waste exemption	On a farm	Preparatory treatments (baling, sorting, shredding etc)
B	On site	Crowtree Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX055445	Using waste exemption	On a farm	Use of waste in construction
B	On site	Crowtree Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX055445	Using waste exemption	On a farm	Use of waste for a specified purpose
B	On site	Crowtree Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX055445	Storing waste exemption	On a farm	Storage of waste in secure containers
B	On site	Crowtree Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX055445	Storing waste exemption	On a farm	Storage of waste in a secure place
C	On site	Welland House Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX231405	Storing waste exemption	On a farm	Storage of waste in a secure place
C	On site	Welland House Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX231405	Using waste exemption	On a farm	Use of waste in construction
C	On site	Welland House Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX231405	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
C	On site	Welland House Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX231405	Treating waste exemption	On a farm	Cleaning, washing, spraying or coating relevant waste
C	On site	Welland House Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX231405	Treating waste exemption	On a farm	Preparatory treatments (baling, sorting, shredding etc)
C	On site	Welland House Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX231405	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
C	On site	Welland House Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX231405	Treating waste exemption	On a farm	Aerobic composting and associated prior treatment

ID	Location	Site	Reference	Category	Sub-Category	Description
C	On site	Welland House Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX231405	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
C	On site	Welland House Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX231405	Disposing of waste exemption	On a farm	Deposit of waste from a portable sanitary convenience
C	On site	Welland House Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX231405	Storing waste exemption	On a farm	Storage of waste in secure containers
C	On site	Welland House Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX085039	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
C	On site	Welland House Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX085039	Disposing of waste exemption	On a farm	Disposal by incineration
C	On site	Welland House Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX085039	Disposing of waste exemption	On a farm	Burning waste in the open
C	On site	Welland House Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX085019	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
C	On site	Welland House Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX085039	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
C	On site	Welland House Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX231405	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
C	On site	Welland House Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX231405	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
C	On site	Welland House Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX231405	Disposing of waste exemption	On a farm	Disposal by incineration
C	On site	Welland House Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX231405	Disposing of waste exemption	On a farm	Burning waste in the open
C	On site	Welland House Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX358529	Disposing of waste exemption	On a farm	Burning waste in the open

ID	Location	Site	Reference	Category	Sub-Category	Description
C	On site	Welland House Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX358529	Disposing of waste exemption	On a farm	Disposal by incineration
C	On site	Welland House Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX358529	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
C	On site	Welland House Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX358529	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
C	On site	Welland House Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX358529	Storing waste exemption	On a farm	Storage of waste in a secure place
C	On site	Welland House Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX358529	Storing waste exemption	On a farm	Storage of waste in secure containers
C	On site	Welland House Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX358529	Disposing of waste exemption	On a farm	Deposit of waste from a portable sanitary convenience
C	On site	Welland House Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX358529	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
C	On site	Welland House Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX358529	Treating waste exemption	On a farm	Aerobic composting and associated prior treatment
C	On site	Welland House Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX358529	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
C	On site	Welland House Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX358529	Treating waste exemption	On a farm	Preparatory treatments (baling, sorting, shredding etc)
C	On site	Welland House Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX358529	Treating waste exemption	On a farm	Cleaning, washing, spraying or coating relevant waste
C	On site	Welland House Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX358529	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
C	On site	Welland House Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX358529	Using waste exemption	On a farm	Use of waste in construction

ID	Location	Site	Reference	Category	Sub-Category	Description
C	On site	Welland House Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX085039	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
C	On site	Welland House Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX085039	Disposing of waste exemption	On a farm	Deposit of waste from a portable sanitary convenience
C	On site	Welland House Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX085039	Storing waste exemption	On a farm	Storage of waste in secure containers
C	On site	Welland House Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX085039	Storing waste exemption	On a farm	Storage of waste in a secure place
C	On site	Welland House Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX085039	Treating waste exemption	On a farm	Cleaning, washing, spraying or coating relevant waste
C	On site	Welland House Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX085039	Treating waste exemption	On a farm	Aerobic composting and associated prior treatment
C	On site	Welland House Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX085039	Treating waste exemption	On a farm	Preparatory treatments (baling, sorting, shredding etc)
C	On site	Welland House Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX085039	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
C	On site	Welland House Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX085019	Using waste exemption	On a farm	Use of waste in construction
C	On site	Welland House Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX085039	Using waste exemption	On a farm	Use of waste in construction
C	On site	Welland House Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX085019	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
C	On site	Welland House Farm, Spalding Marsh, Spalding, Pe12 6hf	WEX085039	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
D	On site	Crowtree Farm, Spalding Marsh, Spalding, Lincs, Pe12 6hf	WEX208813	Using waste exemption	On a farm	Use of waste in construction

ID	Location	Site	Reference	Category	Sub-Category	Description
D	On site	Crowtree Farm, Spalding Marsh, Spalding, Lincs, Pe12 6hf	WEX208813	Storing waste exemption	On a farm	Storage of waste in a secure place
D	On site	Crowtree Farm, Spalding Marsh, Spalding, Lincs, Pe12 6hf	WEX208813	Storing waste exemption	On a farm	Storage of waste in secure containers
D	On site	Crowtree Farm, Spalding Marsh, Spalding, Lincs, Pe12 6hf	WEX208813	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
D	On site	Crowtree Farm, Spalding Marsh, Spalding, Lincs, Pe12 6hf	WEX208813	Treating waste exemption	On a farm	Preparatory treatments (baling, sorting, shredding etc)
D	On site	Crowtree Farm, Spalding Marsh, Spalding, Lincs, Pe12 6hf	WEX208813	Treating waste exemption	On a farm	Cleaning, washing, spraying or coating relevant waste
D	On site	Crowtree Farm, Spalding Marsh, Spalding, Lincs, Pe12 6hf	WEX208813	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
D	On site	Crowtree Farm, Spalding Marsh, Spalding, Lincs, Pe12 6hf	WEX208813	Using waste exemption	On a farm	Use of waste for a specified purpose
D	On site	Crowtree Farm, Spalding Marsh, Spalding, Lincs, Pe12 6hf	WEX208813	Disposing of waste exemption	On a farm	Disposal by incineration
D	On site	Crowtree Farm, Spalding Marsh, Spalding, Lincs, Pe12 6hf	WEX208813	Disposing of waste exemption	On a farm	Burning waste in the open
D	On site	Crowtree Farm, Spalding Marsh, Spalding, Lincs, Pe12 6hf	WEX208813	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
D	On site	Crowtree Farm, Spalding Marsh, Spalding, Lincs, Pe12 6hf	WEX208813	Treating waste exemption	On a farm	Screening and blending of waste
D	On site	Crowtree Farm, Spalding Marsh, Spalding, Lincs, Pe12 6hf	WEX208813	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
D	On site	Crowtree Farm, Spalding Marsh, Spalding, Lincs, Pe12 6hf	WEX333130	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit

ID	Location	Site	Reference	Category	Sub-Category	Description
D	**On site**	**Crowtree Farm, Spalding Marsh, Spalding, Lincs, Pe12 6hf**	**WEX333130**	**Treating waste exemption**	**On a farm**	**Screening and blending of waste**
D	**On site**	**Crowtree Farm, Spalding Marsh, Spalding, Lincs, Pe12 6hf**	**WEX333130**	**Disposing of waste exemption**	**On a farm**	**Deposit of agricultural waste consisting of plant tissue under a Plant Health notice**
D	**On site**	**Crowtree Farm, Spalding Marsh, Spalding, Lincs, Pe12 6hf**	**WEX333130**	**Disposing of waste exemption**	**On a farm**	**Disposal by incineration**
D	**On site**	**Crowtree Farm, Spalding Marsh, Spalding, Lincs, Pe12 6hf**	**WEX333130**	**Disposing of waste exemption**	**On a farm**	**Burning waste in the open**
D	**On site**	**Crowtree Farm, Spalding Marsh, Spalding, Lincs, Pe12 6hf**	**WEX333130**	**Using waste exemption**	**On a farm**	**Spreading of plant matter to confer benefit**
D	**On site**	**Crowtree Farm, Spalding Marsh, Spalding, Lincs, Pe12 6hf**	**WEX333130**	**Treating waste exemption**	**On a farm**	**Cleaning, washing, spraying or coating relevant waste**
D	**On site**	**Crowtree Farm, Spalding Marsh, Spalding, Lincs, Pe12 6hf**	**WEX333130**	**Treating waste exemption**	**On a farm**	**Preparatory treatments (baling, sorting, shredding etc)**
D	**On site**	**Crowtree Farm, Spalding Marsh, Spalding, Lincs, Pe12 6hf**	**WEX333130**	**Disposing of waste exemption**	**On a farm**	**Deposit of waste from dredging of inland waters**
D	**On site**	**Crowtree Farm, Spalding Marsh, Spalding, Lincs, Pe12 6hf**	**WEX333130**	**Storing waste exemption**	**On a farm**	**Storage of waste in secure containers**
D	**On site**	**Crowtree Farm, Spalding Marsh, Spalding, Lincs, Pe12 6hf**	**WEX333130**	**Storing waste exemption**	**On a farm**	**Storage of waste in a secure place**
D	**On site**	**Crowtree Farm, Spalding Marsh, Spalding, Lincs, Pe12 6hf**	**WEX333130**	**Using waste exemption**	**On a farm**	**Use of waste in construction**
D	**On site**	**Crowtree Farm, Spalding Marsh, Spalding, Lincs, Pe12 6hf**	**WEX333130**	**Using waste exemption**	**On a farm**	**Use of waste for a specified purpose**
E	250m E	-	WEX363951	Disposing of waste exemption	On a farm	Burning waste in the open

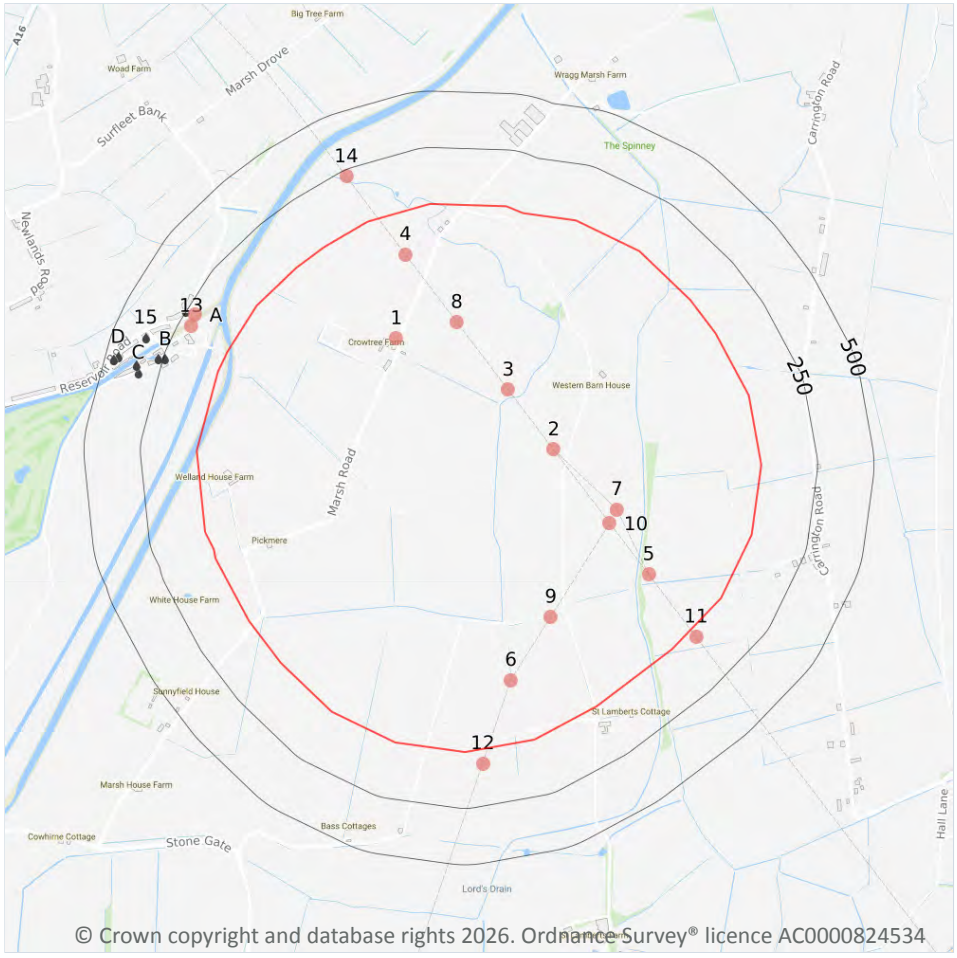
ID	Location	Site	Reference	Category	Sub-Category	Description
E	250m E	-	WEX363951	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
E	250m E	-	WEX363951	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
E	252m E	55 Carrington Road Spalding Lincolnshire Pe12 6ls	EPR/PE5653YQ/A001	Disposing of waste exemption	Agricultural waste only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
E	252m E	55 Carrington Road Spalding Lincolnshire Pe12 6ls	EPR/PE5653YQ/A001	Disposing of waste exemption	Agricultural waste only	Burning waste in the open
E	252m E	55 Carrington Road Spalding Lincolnshire Pe12 6ls	EPR/PE5653YQ/A001	Disposing of waste exemption	Agricultural waste only	Deposit of waste from dredging of inland waters
E	252m E	55 Carrington Road, 55 Carrington Road, Moulton Seas End, Spalding, Pe12 6ls	WEX008996	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
E	252m E	55 Carrington Road, 55 Carrington Road, Moulton Seas End, Spalding, Pe12 6ls	WEX008996	Disposing of waste exemption	On a farm	Burning waste in the open
E	252m E	55 Carrington Road, 55 Carrington Road, Moulton Seas End, Spalding, Pe12 6ls	WEX008996	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
E	252m E	57, Carrington Road, Moulton Seas End, Spalding, Pe12 6ls	WEX011450	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
E	252m E	57, Carrington Road, Moulton Seas End, Spalding, Pe12 6ls	WEX011450	Disposing of waste exemption	On a farm	Burning waste in the open
E	254m E	55, Carrington Road, Moulton Seas End, Spalding, Pe12 6ls	WEX169364	Disposing of waste exemption	On a farm	Burning waste in the open
E	254m E	55, Carrington Road, Moulton Seas End, Spalding, Pe12 6ls	WEX169364	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
E	254m E	55, Carrington Road, Moulton Seas End, Spalding, Pe12 6ls	WEX169364	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters

ID	Location	Site	Reference	Category	Sub-Category	Description
E	254m E	55, Carrington Road, Moulton Seas End, Spalding, Pe12 6ls	WEX302756	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
E	254m E	55, Carrington Road, Moulton Seas End, Spalding, Pe12 6ls	WEX302756	Disposing of waste exemption	On a farm	Burning waste in the open
E	254m E	55, Carrington Road, Moulton Seas End, Spalding, Pe12 6ls	WEX302756	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
E	254m E	55, Carrington Road, Moulton Seas End, Spalding, Pe12 6ls	WEX432253	Disposing of waste exemption	On a farm	Burning waste in the open
E	254m E	55, Carrington Road, Moulton Seas End, Spalding, Pe12 6ls	WEX432253	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
E	254m E	55, Carrington Road, Moulton Seas End, Spalding, Pe12 6ls	WEX432253	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
E	254m E	57, Carrington Road, Moulton Seas End, Spalding, Pe12 6ls	WEX440338	Disposing of waste exemption	On a farm	Burning waste in the open
E	254m E	57, Carrington Road, Moulton Seas End, Spalding, Pe12 6ls	WEX171284	Disposing of waste exemption	On a farm	Burning waste in the open
E	254m E	57, Carrington Road, Moulton Seas End, Spalding, Pe12 6ls	WEX171284	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
E	254m E	57, Carrington Road, Moulton Seas End, Spalding, Pe12 6ls	WEX304229	Disposing of waste exemption	On a farm	Burning waste in the open
E	254m E	57, Carrington Road, Moulton Seas End, Spalding, Pe12 6ls	WEX304229	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
F	286m NW	-	WEX289245	Using waste exemption	Not on a farm	Use of waste for a specified purpose
F	286m NW	-	WEX289245	Using waste exemption	Not on a farm	Use of waste in construction
F	286m NW	-	WEX289245	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising

ID	Location	Site	Reference	Category	Sub-Category	Description
F	286m NW	-	WEX289245	Using waste exemption	Not on a farm	Spreading of plant matter to confer benefit
F	286m NW	-	WEX289245	Treating waste exemption	Not on a farm	Treatment of waste aerosol cans
F	286m NW	-	WEX289245	Using waste exemption	Not on a farm	Use of mulch
F	286m NW	-	WEX388891	Treating waste exemption	Not on a farm	Treatment of waste aerosol cans
F	286m NW	-	WEX388891	Using waste exemption	Not on a farm	Use of waste in construction
F	286m NW	-	WEX388891	Using waste exemption	Not on a farm	Use of waste for a specified purpose
F	286m NW	-	WEX388891	Using waste exemption	Not on a farm	Use of mulch
F	286m NW	-	WEX388891	Using waste exemption	Not on a farm	Spreading of plant matter to confer benefit
F	286m NW	-	WEX388891	Treating waste exemption	Not on a farm	Screening and blending of waste
F	286m NW	-	WEX388891	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
G	312m E	57 Carrington Road Spalding Lincolnshire Pe12 6ls	EPR/LH0574BQ/A001	Disposing of waste exemption	Agricultural waste only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
G	312m E	57 Carrington Road Spalding Lincolnshire Pe12 6ls	EPR/LH0574BQ/A001	Disposing of waste exemption	Agricultural waste only	Burning waste in the open
H	474m SW	Wragg Marsh Farm, Marsh Road, Spalding Marsh, Spalding, Pe12 6hq	WEX188692	Disposing of waste exemption	On a farm	Burning waste in the open
H	474m SW	Wragg Marsh Farm, Marsh Road, Spalding Marsh, Spalding, Pe12 6hq	WEX319377	Disposing of waste exemption	On a farm	Burning waste in the open
H	476m SW	Wragg Marsh Farm, Marsh Road, Spalding Marsh, Spalding, Pe12 6hq	WEX022898	Disposing of waste exemption	On a farm	Burning waste in the open

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

4 Current industrial land use



Site Outline

Search buffers in metres (m)

Recent industrial land uses

Licensed Discharges to controlled waters

4.1 Recent industrial land uses

Records within 250m	15

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 31 >**

ID	Location	Company	Address	Activity	Category
1	**On site**	**Silo**	**Lincolnshire, PE12**	**Hoppers and Silos**	**Farming**
2	**On site**	**Pylon**	**Lincolnshire, PE12**	**Electrical Features**	**Infrastructure and Facilities**
3	**On site**	**Pylon**	**Lincolnshire, PE12**	**Electrical Features**	**Infrastructure and Facilities**

ID	Location	Company	Address	Activity	Category
4	**On site**	**Pylon**	**Lincolnshire, PE12**	**Electrical Features**	**Infrastructure and Facilities**
5	**On site**	**Pylon**	**Lincolnshire, PE12**	**Electrical Features**	**Infrastructure and Facilities**
6	**On site**	**Pylon**	**Lincolnshire, PE12**	**Electrical Features**	**Infrastructure and Facilities**
7	**On site**	**Pylon**	**Lincolnshire, PE12**	**Electrical Features**	**Infrastructure and Facilities**
8	**On site**	**Pylon**	**Lincolnshire, PE12**	**Electrical Features**	**Infrastructure and Facilities**
9	**On site**	**Pylon**	**Lincolnshire, PE12**	**Electrical Features**	**Infrastructure and Facilities**
10	**On site**	**Pylon**	**Lincolnshire, PE12**	**Electrical Features**	**Infrastructure and Facilities**
11	38m SE	Pylon	Lincolnshire, PE12	Electrical Features	Infrastructure and Facilities
12	63m S	Pylon	Lincolnshire, PE12	Electrical Features	Infrastructure and Facilities
13	197m NW	Slipway	Lincolnshire, PE11	Moorings and Unloading Facilities	Water
A	209m NW	Slipway	Lincolnshire, PE11	Moorings and Unloading Facilities	Water
14	222m NW	Pylon	Lincolnshire, PE12	Electrical Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey®.

4.2 National Geographic Database (NGD) - Current or recent tanks

Records within 250m	**0**

Current or recent tanks identified from the Ordnance Survey® NGD.

This data is sourced from Ordnance Survey®.

4.3 Current or recent petrol stations

Records within 500m	0

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.4 Electricity cables

Records within 500m	0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.5 Gas pipelines

Records within 500m	0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.6 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.

4.7 Control of Major Accident Hazards (COMAH)

Records within 500m	0

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

This data is sourced from the Health and Safety Executive.

4.8 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.

4.9 Hazardous substance storage/usage

Records within 500m	0

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

This data is sourced from Local Authority records.

4.10 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.

4.11 Licensed industrial activities (Part A(1))

Records within 500m	0

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

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

4.12 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.

4.13 Radioactive Substance Authorisations

Records within 500m	0

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

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

4.14 Licensed Discharges to controlled waters

Records within 500m	9

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

Features are displayed on the Current industrial land use map on **page 31 >**

ID	Location	Address	Details	
B	240m W	SURFLEET RESERVOIR NO.41, SPALDING, LINCS, PE11 4DJ	Effluent Type: UNSPECIFIED Permit Number: PR5LF3192 Permit Version: 1 Receiving Water: Land	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 06/06/1973 Effective Date: 06/06/1973 Revocation Date: 05/08/1997
A	252m NW	SHIP INN, RESERVOIR ROAD, SURFLEET SEAS END, LINCOLNSHIRE, PE11 4DJ	Effluent Type: SEWAGE & TRADE COMBINED - UNSPECIFIED Permit Number: PRNNF12916 Permit Version: 1 Receiving Water: TRIB OF RIVER WELLAND	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 24/03/2003 Effective Date: 19/03/2003 Revocation Date: -
B	269m W	41 THE RESERVOIR, SURFLEET, SPALDING, LINCS, PE11 4DJ	Effluent Type: UNSPECIFIED Permit Number: PR5LF5056 Permit Version: 1 Receiving Water: land	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 05/07/1985 Effective Date: 05/07/1985 Revocation Date: 01/10/1996
C	340m W	SURFLEET RESERVOIR NO.36, SURFLEET SEAS END, SPALDING, LINCS, PE11 4DJ	Effluent Type: UNSPECIFIED Permit Number: PR5LF3183 Permit Version: 1 Receiving Water: Land	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 14/12/1972 Effective Date: 14/12/1972 Revocation Date: 05/08/1997

ID	Location	Address	Details	
15	355m NW	51 RESERVOIR ROAD STP, 51 RESERVOIR ROAD, SURFLEET, SPALDING, LINCOLNSHIRE, PE11 4DH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: EPRGB3392EX Permit Version: 1 Receiving Water: TRIB OF RIVER GLEN	Status: NEW ISSUED UNDER EPR 2010 Issue date: 21/07/2017 Effective Date: 21/07/2017 Revocation Date: -
C	358m W	HOUSE AT SURFLEET RESERVOIR, SURFLEET, SPALDING, LINCS	Effluent Type: UNSPECIFIED Permit Number: PR5LF3185 Permit Version: 1 Receiving Water: Land	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 30/01/1973 Effective Date: 30/01/1973 Revocation Date: 01/10/1996
D	446m W	RES HOME ADJ RESERVOIR RD, SURFLEET RESERVOIR, SPALDING, LINC	Effluent Type: UNSPECIFIED Permit Number: PR5LF5331 Permit Version: 1 Receiving Water: -	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 10/04/1987 Effective Date: 10/04/1987 Revocation Date: 01/10/1996
D	463m W	RESERVOIR ROAD NO.29, SURFLEET RESERVOIR, SPALDING, LINCS, PE11 4DH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: PR5LF5330 Permit Version: 1 Receiving Water: LAND	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 10/04/1987 Effective Date: 10/04/1987 Revocation Date: 13/12/2011
D	463m W	RESERVOIR ROAD NO.29, SURFLEET RESERVOIR, SPALDING, LINCS, PE11 4DH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: PR5LF5330 Permit Version: 2 Receiving Water: LAND	Status: VARIED UNDER EPR 2010 Issue date: 14/12/2011 Effective Date: 14/12/2011 Revocation Date: -

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

4.15 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.

4.16 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.

4.17 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.

4.18 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.

4.19 Pollution Incidents (EA/NRW)

Records within 500m	0

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

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

4.20 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.

4.21 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.

4.22 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 Geology (basic)

5.1 Superficial geology (625k)

Records within 500m	1

Generalised geology data based on BGS's published poster maps of the UK (North and South). Superficial related themes digitised from 1977 first edition Quaternary map (North and South).

Location	Lex code	Description	Rock type
On site	**ALV-CLSS**	**ALLUVIUM**	**CLAY, SILT AND SAND**

This data is sourced from the British Geological Survey.

5.2 Bedrock geology (625k)

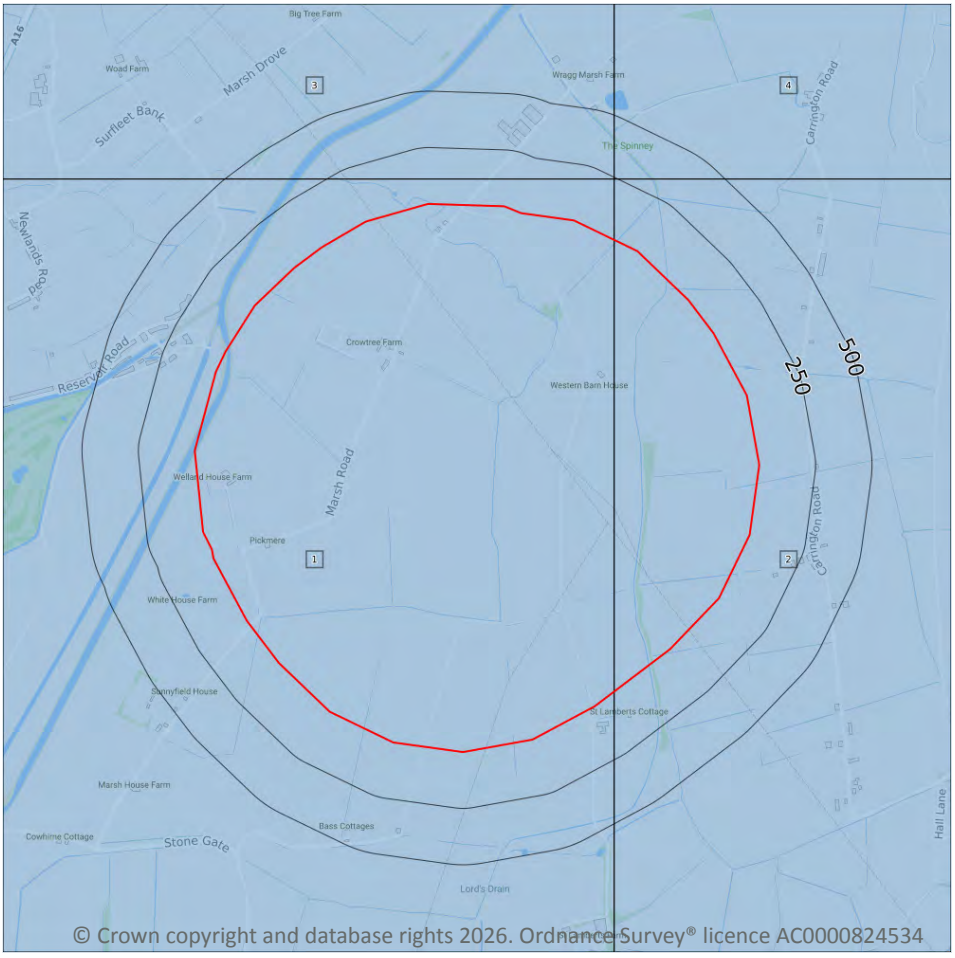
Records within 500m	1

Generalised geology data based on BGS's published poster maps of the UK (North and South). Bedrock related themes created through generalisation of 1:50,000 data.

Location	Lex code	Description	Rock type
On site	**KLOX-MDSS**	**KELLAWAYS FORMATION AND OXFORD CLAY FORMATION (UNDIFFERENTIATED)**	**MUDSTONE, SILTSTONE AND SANDSTONE**

This data is sourced from the British Geological Survey.

6 Hydrogeology - Superficial aquifer



Site Outline

Search buffers in metres (m)

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

6.1 Superficial aquifer

Records within 500m	4

Aquifer status of groundwater held within superficial geology.

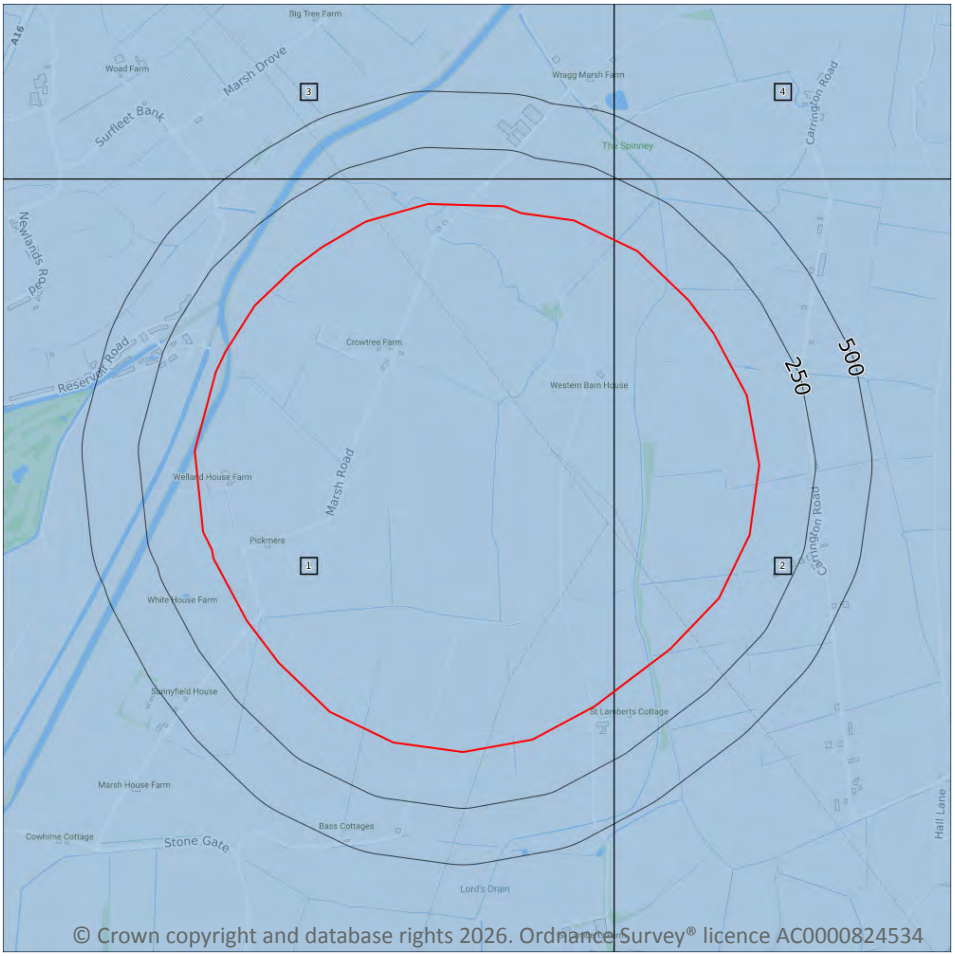
Features are displayed on the Hydrogeology map on **page 40 >**

ID	Location	Designation	Description
1	**On site**	**Unproductive**	**These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow**
2	**On site**	**Unproductive**	**These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow**
3	111m N	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

ID	Location	Designation	Description
4	243m NE	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

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

Bedrock aquifer



Site Outline

Search buffers in metres (m)

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

6.2 Bedrock aquifer

Records within 500m	4

Aquifer status of groundwater held within bedrock geology.

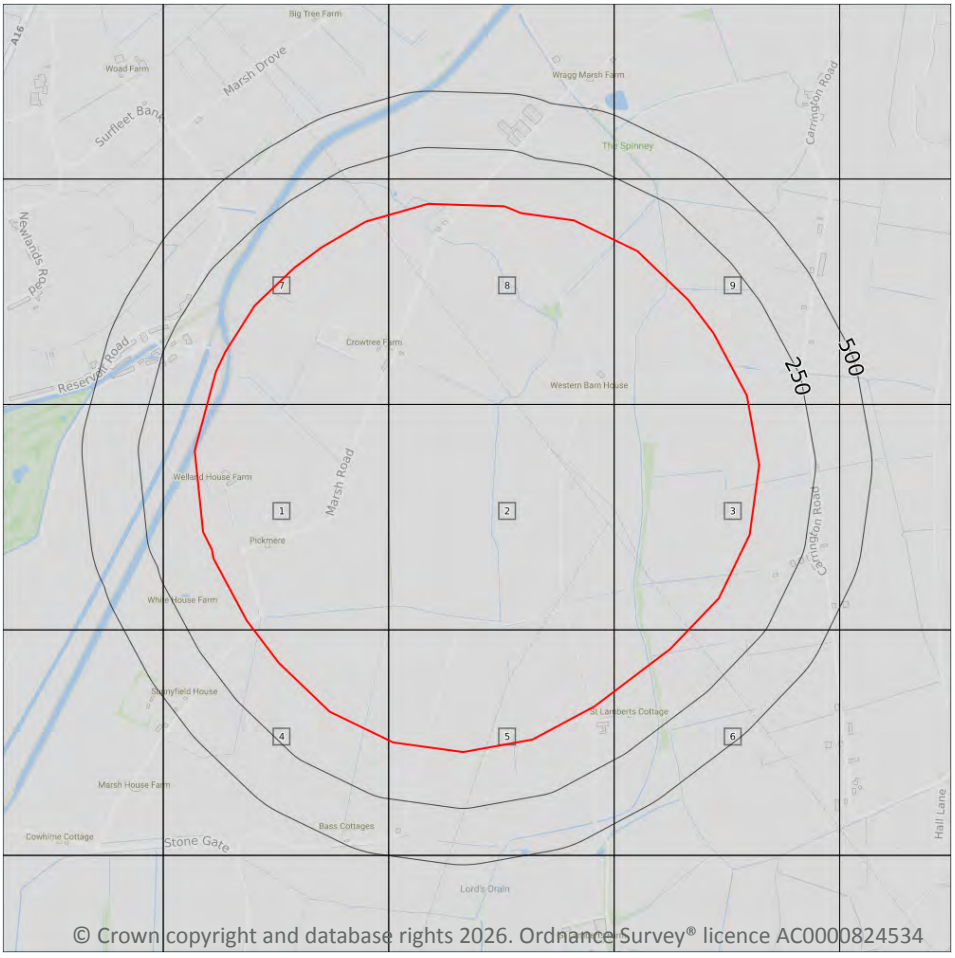
Features are displayed on the Bedrock aquifer map on **page 42 >**

ID	Location	Designation	Description
1	**On site**	**Unproductive**	**These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow**
2	**On site**	**Unproductive**	**These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow**
3	111m N	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

ID	Location	Designation	Description
4	243m NE	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

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

Groundwater vulnerability



Site Outline

Search buffers in metres (m)

Superficial vulnerability

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

Bedrock vulnerability

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

Other information

- Unproductive aquifer
- Soluble rock risk
- Local information

6.3 Groundwater vulnerability

Records within 50m	9

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 44 >**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
2	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
3	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
4	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
5	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
6	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
7	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
8	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
9	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures

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

6.4 Groundwater vulnerability- soluble rock risk

Records on site	0

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

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

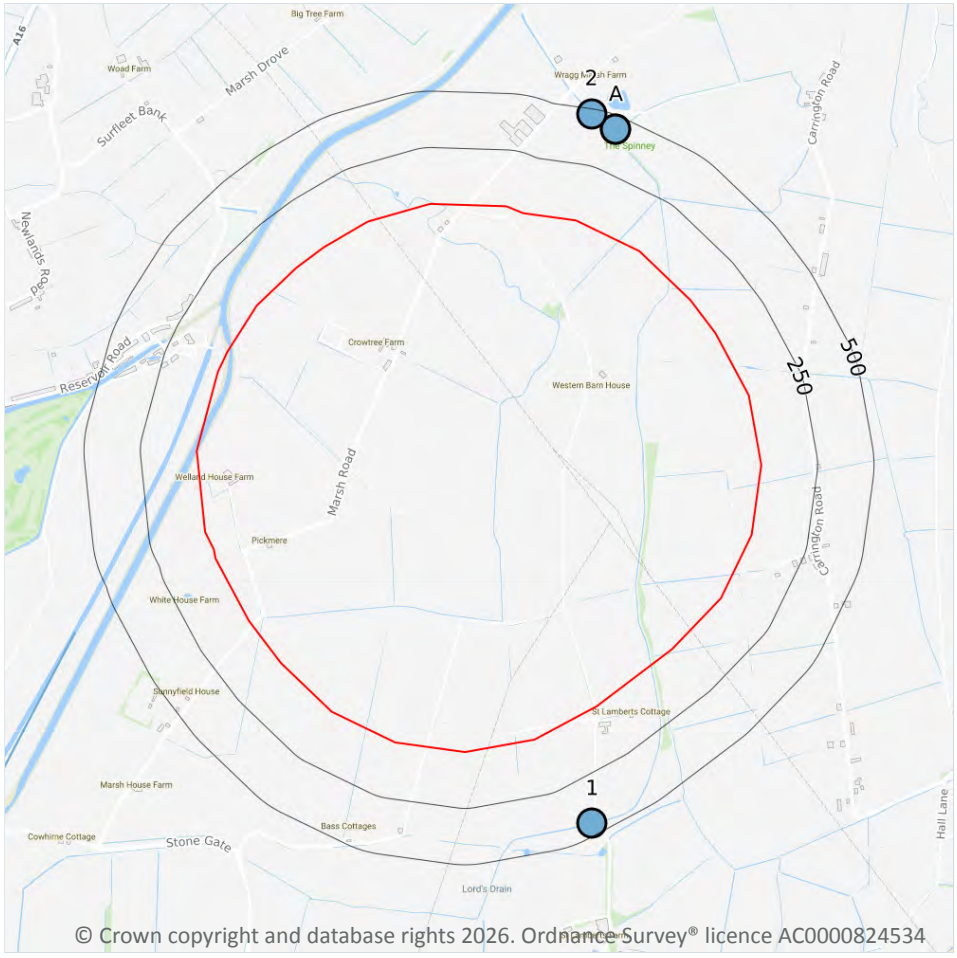
6.5 Groundwater vulnerability- local information

Records on site	0

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

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

Abstractions and Source Protection Zones



Site Outline

Search buffers in metres (m)

- Source Protection Zone 1 — Inner catchment
- Source Protection Zone 2 — Outer catchment
- Source Protection Zone 3 — Total catchment
- Source Protection Zone 4 — Zone of Special Interest
- Source Protection Zone 1c — Inner catchment - confined aquifer
- Source Protection Zone 2c — Outer catchment - confined aquifer
- Source Protection Zone 3c — Total catchment - confined aquifer
- Drinking water abstraction licences
- Drinking water abstraction licences — Polygon features
- Drinking water abstraction licences — Linear features
- Groundwater abstraction licence (point)
- Groundwater abstraction licence (area)
- Groundwater abstraction licence (linear)
- Surface Water Abstractions (point)
- Surface Water Abstractions (area)
- Surface Water Abstractions (linear)

6.6 Groundwater abstractions

Records within 2000m	0

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.

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

6.7 Surface water abstractions

Records within 2000m	22

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 48 >**

ID	Location	Details	
A	441m NE	Status: Active Licence No: 5/31/14/*S/0264 Details: Trickle Irrigation - Storage Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: LORDS DRAIN, SPALDING Data Type: Point Name: GEORGE HAY & SONS LTD Easting: 529999 Northing: 330220	Annual Volume (m^3): 22000 Max Daily Volume (m^3): 864 Original Application No: NPS/NA/001334 Original Start Date: 30/05/2006 Expiry Date: 31/03/2026 Issue No: 2 Version Start Date: 22/07/2021 Version End Date: -
A	441m NE	Status: Active Licence No: 5/31/14/*S/0264 Details: Spray Irrigation - Storage Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: LORDS DRAIN, SPALDING Data Type: Point Name: GEORGE HAY & SONS LTD Easting: 529999 Northing: 330220	Annual Volume (m^3): 22000 Max Daily Volume (m^3): 864 Original Application No: NPS/NA/001334 Original Start Date: 30/05/2006 Expiry Date: 31/03/2026 Issue No: 2 Version Start Date: 22/07/2021 Version End Date: -
1	448m SE	Status: Active Licence No: AN/031/0014/062 Details: Spray Irrigation - Storage Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: LORDS DRAIN AT LAMBERTS FARM, SPALDING Data Type: Point Name: Oldershaws of Moulton Limited Easting: 529893 Northing: 327142	Annual Volume (m^3): 45454 Max Daily Volume (m^3): 1296 Original Application No: NPS/WR/037260 Original Start Date: 03/03/2023 Expiry Date: 31/03/2038 Issue No: 1 Version Start Date: 03/03/2023 Version End Date: -
2	479m N	Status: Historical Licence No: 5/31/14/*S/0264 Details: Spray Irrigation - Storage Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: LORDS DRAIN - SPALDING Data Type: Point Name: GEORGE HAY & SONS LTD Easting: 529890 Northing: 330290	Annual Volume (m^3): 22000 Max Daily Volume (m^3): 864 Original Application No: - Original Start Date: 30/05/2006 Expiry Date: 31/03/2026 Issue No: 1 Version Start Date: 30/05/2006 Version End Date: -

ID	Location	Details	
B	704m SW	Status: Active Licence No: 5/31/14/*S/0247 Details: General Farming & Domestic Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: VERNATTS DRAIN "A - B" Data Type: Line Name: LINCOLNSHIRE FIELD PRODUCTS LTD Easting: 526190 Northing: 325300	Annual Volume (m^3): 135000 Max Daily Volume (m^3): 8000 Original Application No: NS761 Original Start Date: 27/11/1998 Expiry Date: - Issue No: 1 Version Start Date: 27/11/1998 Version End Date: -
B	704m SW	Status: Active Licence No: 5/31/14/*S/0247 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: VERNATTS DRAIN "A - B" Data Type: Line Name: LINCOLNSHIRE FIELD PRODUCTS LTD Easting: 526190 Northing: 325300	Annual Volume (m^3): 135000 Max Daily Volume (m^3): 8000 Original Application No: NS761 Original Start Date: 27/11/1998 Expiry Date: - Issue No: 1 Version Start Date: 27/11/1998 Version End Date: -
-	1032m W	Status: Active Licence No: 5/31/14/*S/0247 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: BLUE GOWT "C - D" Data Type: Line Name: LINCOLNSHIRE FIELD PRODUCTS LTD Easting: 525810 Northing: 325600	Annual Volume (m^3): 135000 Max Daily Volume (m^3): 8000 Original Application No: NS761 Original Start Date: 27/11/1998 Expiry Date: - Issue No: 1 Version Start Date: 27/11/1998 Version End Date: -
-	1443m W	Status: Active Licence No: 5/31/14/*S/0123 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: R GLEN AT SURFLEET Data Type: Point Name: SPALDING GOLF CLUB Easting: 526700 Northing: 328700	Annual Volume (m^3): 3410 Max Daily Volume (m^3): 250.03 Original Application No: - Original Start Date: 01/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2004 Version End Date: -
-	1505m W	Status: Historical Licence No: 5/31/14/*S/0249 Details: Spray Irrigation - Storage Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: RIVER GLEN - SURFLEET Data Type: Point Name: SPALDING GOLF CLUB Easting: 526640 Northing: 328670	Annual Volume (m^3): 12800 Max Daily Volume (m^3): 302.40 Original Application No: - Original Start Date: 09/01/2002 Expiry Date: 31/03/2022 Issue No: 1 Version Start Date: 01/04/2004 Version End Date: -

ID	Location	Details	
-	1505m W	Status: Historical Licence No: 5/31/14/*S/0249/L Details: Spray Irrigation - Storage Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: RIVER GLEN - SURFLEET Data Type: Point Name: SPALDING GOLF CLUB Easting: 526640 Northing: 328670	Annual Volume (m^3): 12800 Max Daily Volume (m^3): 302.40 Original Application No: N1224 Original Start Date: 01/04/2022 Expiry Date: - Issue No: 1 Version Start Date: 01/04/2022 Version End Date: -
-	1505m W	Status: Active Licence No: 5/31/14/*S/0249/R01 Details: Spray Irrigation - Storage Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: RIVER GLEN IN SURFLEET Data Type: Point Name: Goude Easting: 526640 Northing: 328668	Annual Volume (m^3): 12800 Max Daily Volume (m^3): 302.4 Original Application No: NPS/WR/038517 Original Start Date: 13/09/2022 Expiry Date: 31/03/2038 Issue No: 2 Version Start Date: 08/03/2023 Version End Date: -
-	1509m N	Status: Active Licence No: 5/31/14/*S/0109 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: BICKER CREEK Data Type: Line Name: Peter C Thorold LTD Easting: 529220 Northing: 331842	Annual Volume (m^3): 45000 Max Daily Volume (m^3): 1900 Original Application No: NPS/WR/037882 Original Start Date: 01/01/1966 Expiry Date: - Issue No: 103 Version Start Date: 15/12/2022 Version End Date: -
-	1609m N	Status: Active Licence No: AN/030/0012/047 Details: Trickle Irrigation - Direct Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: REACH 'A' TO 'B' RISEGATE EAU, SPALDING Data Type: Line Name: R BRATLEY (QUADRING) LTD Easting: 524725 Northing: 331039	Annual Volume (m^3): 79464 Max Daily Volume (m^3): 1290 Original Application No: NPS/NA/001712 Original Start Date: 17/03/2022 Expiry Date: 31/03/2038 Issue No: 1 Version Start Date: 17/03/2022 Version End Date: -
-	1660m SW	Status: Active Licence No: 5/31/14/*S/0247 Details: Spray Irrigation - Storage Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: VERNATTS DRAIN "G - H" Data Type: Line Name: LINCOLNSHIRE FIELD PRODUCTS LTD Easting: 527010 Northing: 327090	Annual Volume (m^3): 135000 Max Daily Volume (m^3): 8000 Original Application No: NS761 Original Start Date: 27/11/1998 Expiry Date: - Issue No: 1 Version Start Date: 27/11/1998 Version End Date: -

ID	Location	Details	
-	1660m SW	Status: Active Licence No: 5/31/14/*S/0247 Details: General Farming & Domestic Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: VERNATTS DRAIN "G - H" Data Type: Line Name: LINCOLNSHIRE FIELD PRODUCTS LTD Easting: 527010 Northing: 327090	Annual Volume (m^3): 135000 Max Daily Volume (m^3): 8000 Original Application No: NS761 Original Start Date: 27/11/1998 Expiry Date: - Issue No: 1 Version Start Date: 27/11/1998 Version End Date: -
-	1660m SW	Status: Active Licence No: 5/31/14/*S/0247 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: VERNATTS DRAIN "G - H" Data Type: Line Name: LINCOLNSHIRE FIELD PRODUCTS LTD Easting: 527010 Northing: 327090	Annual Volume (m^3): 135000 Max Daily Volume (m^3): 8000 Original Application No: NS761 Original Start Date: 27/11/1998 Expiry Date: - Issue No: 1 Version Start Date: 27/11/1998 Version End Date: -
-	1825m E	Status: Active Licence No: AN/031/0014/010 Details: Spray Irrigation - Storage Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: MOULTON COMMON EAST DRAIN, MOULTON COMMON, LINCOLNSHIRE Data Type: Point Name: Jack Buck (Farms) Limited Easting: 532418 Northing: 329176	Annual Volume (m^3): 22500 Max Daily Volume (m^3): 1200 Original Application No: NPS/WR/003780 Original Start Date: 23/12/2011 Expiry Date: 31/03/2026 Issue No: 1 Version Start Date: 23/12/2011 Version End Date: -
-	1911m N	Status: Historical Licence No: 5/31/14/*S/0109 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: RISEGATE EAU,SUTTERTON DOWDYKE Data Type: Line Name: SNEATH Easting: 528400 Northing: 331800	Annual Volume (m^3): 45000 Max Daily Volume (m^3): 1900 Original Application No: - Original Start Date: 01/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1992 Version End Date: -
-	1912m N	Status: Historical Licence No: 5/31/14/*S/0109 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: RISEGATE EAU,SUTTERTON DOWDYKE Data Type: Line Name: E & J SNEATH Easting: 528537 Northing: 331806	Annual Volume (m^3): 45000 Max Daily Volume (m^3): 1900 Original Application No: - Original Start Date: 01/01/1966 Expiry Date: - Issue No: 101 Version Start Date: 03/06/2016 Version End Date: -

ID	Location	Details	
-	1914m N	Status: Historical Licence No: 5/31/14/*S/0221 Details: Spray Irrigation - Storage Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: RISEGATE EAU IN SURFLEET MARSH Data Type: Line Name: John Grant (Donington) Easting: 529300 Northing: 331800	Annual Volume (m^3): 24000 Max Daily Volume (m^3): 4000 Original Application No: - Original Start Date: 01/03/1996 Expiry Date: - Issue No: 101 Version Start Date: 04/02/2009 Version End Date: -
-	1924m N	Status: Historical Licence No: 5/31/14/*S/0109 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: RISGEGATE EAU EXTENSION Data Type: Line Name: E & J SNEATH Easting: 529396 Northing: 331845	Annual Volume (m^3): 45000 Max Daily Volume (m^3): 1900 Original Application No: NPS/WR/022029 Original Start Date: 01/01/1966 Expiry Date: - Issue No: 101 Version Start Date: 03/06/2016 Version End Date: -
-	1944m N	Status: Active Licence No: 5/31/14/*S/0109 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: RISEGATE EAU,SUTTERTON DOWDYKE Data Type: Line Name: Peter C Thorold LTD Easting: 528537 Northing: 331806	Annual Volume (m^3): 45000 Max Daily Volume (m^3): 1900 Original Application No: NPS/WR/037882 Original Start Date: 01/01/1966 Expiry Date: - Issue No: 103 Version Start Date: 15/12/2022 Version End Date: -

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

6.8 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.

6.9 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.

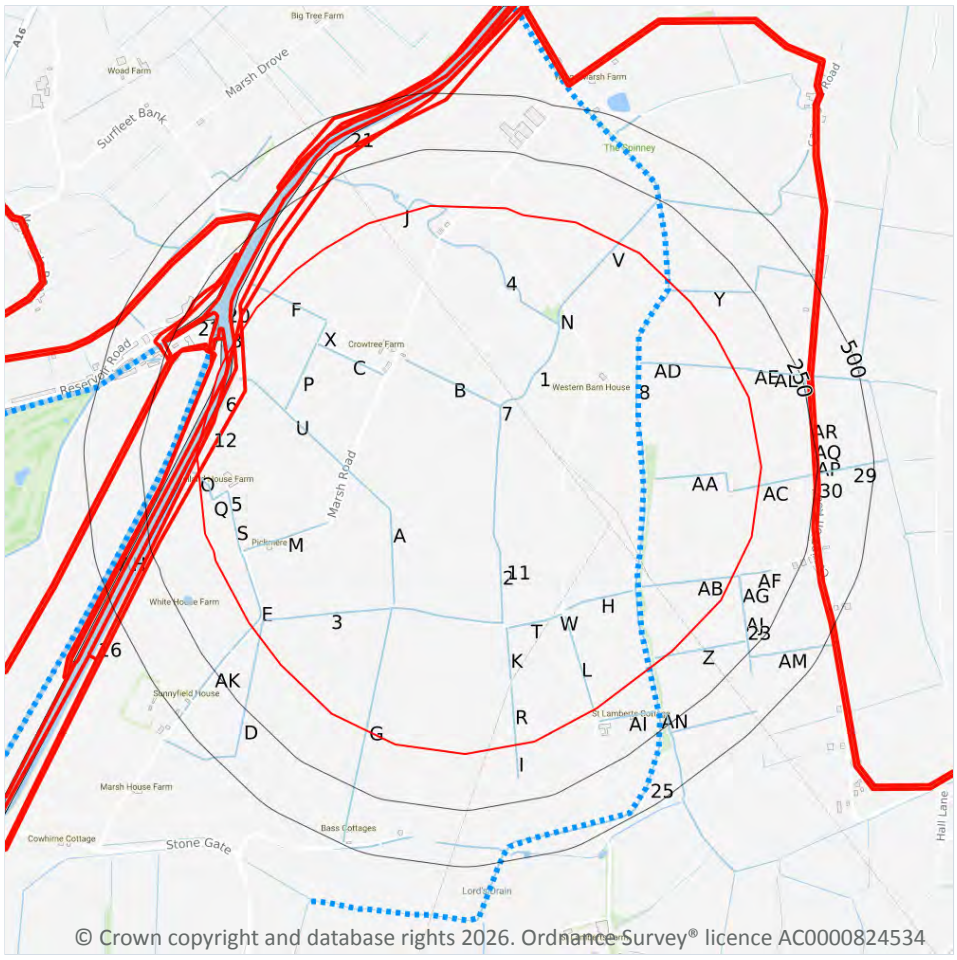
6.10 Source Protection Zones (confined aquifer)

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.

7 Hydrology



Site Outline

Search buffers in metres (m)

Water Network (OS MasterMap)

Surface water features (wider than 5m)

Surface water features (narrower than 5m)

WFD River, canal and surface water transfer water bodies

WFD Lake water bodies

WFD Transitional and coastal water bodies

WFD Surface water body catchments boundaries

WFD Groundwater body boundaries

7.1 Water Network (OS MasterMap)

Records within 250m	84

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 55 >**

ID	Location	Type of water feature	Ground level	Permanence	Name
1	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	-

ID	Location	Type of water feature	Ground level	Permanence	Name
2	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
3	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
4	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
5	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
6	On site	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Welland
7	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
8	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lord's Drain
A	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
G	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
O	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
O	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
P	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Q	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
R	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
S	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
T	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
U	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
V	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
W	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
W	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
X	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Y	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Z	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AA	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AB	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AC	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
AD	**On site**	**Inland river not influenced by normal tidal action.**	**Underground**	**Watercourse contains water year round (in normal circumstances)**	**-**
AD	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
AD	**On site**	**Inland river not influenced by normal tidal action.**	**Underground**	**Watercourse contains water year round (in normal circumstances)**	**-**
AD	**On site**	**Inland river not influenced by normal tidal action.**	**Underground**	**Watercourse contains water year round (in normal circumstances)**	**-**
AD	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
AD	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
AD	**On site**	**Inland river not influenced by normal tidal action.**	**Underground**	**Watercourse contains water year round (in normal circumstances)**	**-**
AD	**On site**	**Inland river not influenced by normal tidal action.**	**Underground**	**Watercourse contains water year round (in normal circumstances)**	**-**
AD	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
AD	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
AE	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
O	14m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AF	28m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
O	32m W	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AG	52m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AI	56m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
16	56m W	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Welland
AG	56m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AH	66m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Vernatt's Drain
18	76m NW	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	Vernatt's Drain
AG	81m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AJ	89m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
20	105m NW	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Welland
21	136m NW	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Welland
22	136m NW	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Glen
AK	141m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
AL	143m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AL	146m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
23	151m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AM	156m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
25	187m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lord's Drain
AN	187m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AN	189m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AN	201m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Dominorum Drain
AN	203m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AN	205m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Dominorum Drain
AL	216m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AL	219m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AP	237m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
AQ	238m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
29	244m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AR	245m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AR	247m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
30	250m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey®.

7.2 Surface water features

Records within 250m	18

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 55 >**

This data is sourced from the Ordnance Survey®.

7.3 WFD Surface water body catchments

Records on site	2

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

Features are displayed on the Hydrology map on **page 55 >**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
11	**On site**	**River**	**Moulton River**	**GB205031050755**	**Welland Lower**	**Welland**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
12	**On site**	**Coastal Catchment**	**Not part of a river WB catchment**	**108**	**Lower Welland**	**Welland**

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

7.4 WFD Surface water bodies

Records identified	**2**

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 55 >**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
13	**On site**	**River**	**Moulton River**	**GB205031050755** ↗	**Moderate**	**Fail**	**Moderate**	**2019**
14	**On site**	**Transi**	**WELLAND**	**GB530503100400** ↗	**Moderate**	**Fail**	**Moderate**	**2019**

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

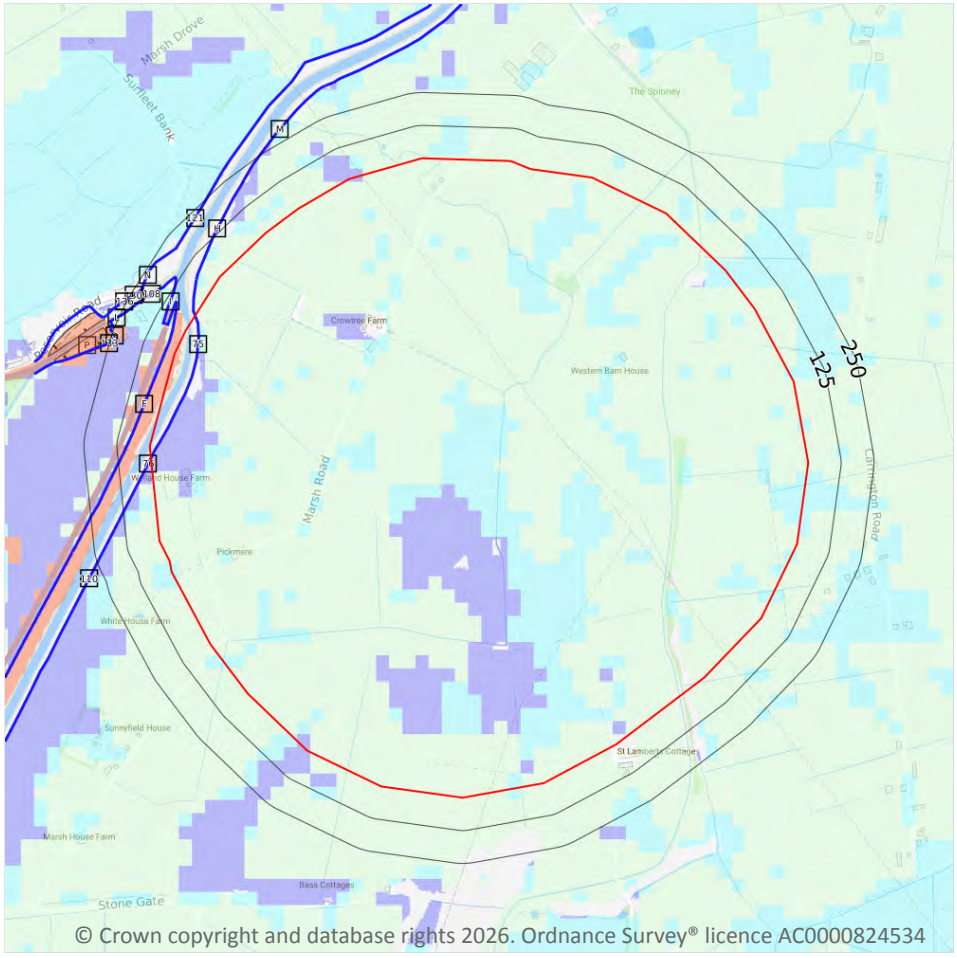
7.5 WFD Groundwater bodies

Records on site	**0**

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

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

8 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

8.1 Risk of flooding from rivers and the sea

Records within 50m	93

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 64 >**

Distance	Flood risk category
On site	**High**
0 - 50m	High

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

8.2 Historical Flood Events

Records within 250m	**1**

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

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

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
P	239m W	Lna_1998_April_River Glen_Surfleet	1998-04-09 1998-04-11	Other	Other	Tidal

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

8.3 Flood Defences

Records within 250m	**18**

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.

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

ID	Location	Update
75	**On site**	**08/11/2022**
76	**On site**	**08/11/2022**
E	36m W	08/11/2022
F	37m W	08/11/2022
H	70m NW	08/11/2022

ID	Location	Update
G	71m NW	08/11/2022
I	79m NW	08/11/2022
B	105m W	08/11/2022
108	142m NW	08/11/2022
110	148m W	08/11/2022
121	199m NW	08/11/2022
M	211m NW	08/11/2022
N	225m NW	08/11/2022
L	230m NW	08/11/2022
O	230m W	08/11/2022
130	233m NW	08/11/2022
133	242m W	08/11/2022
136	247m NW	08/11/2022

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

8.4 Areas Benefiting from Flood Defences

Records within 250m	**0**

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

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

8.5 Flood Storage Areas

Records within 250m	**1**

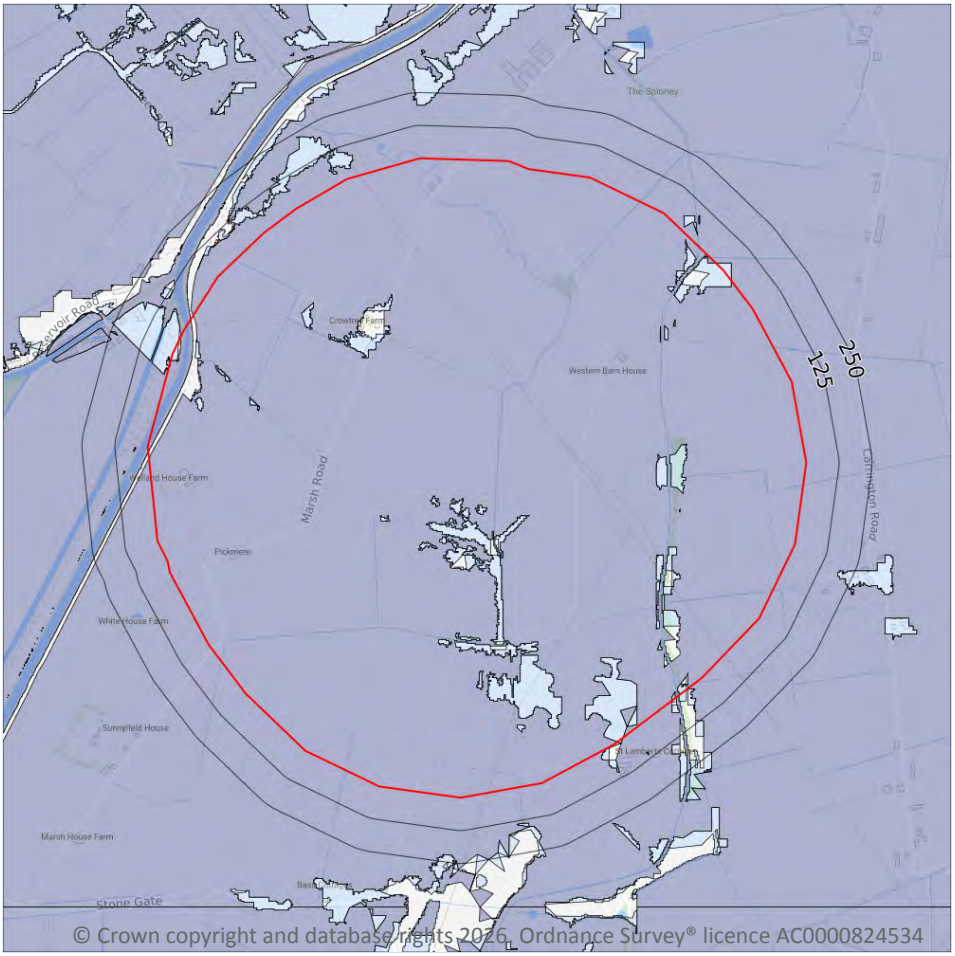
Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.

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

ID	Location	Update
P	240m W	Flood Storage Area

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

8.6 Flood Zone 2

Records within 50m	1

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

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

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

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

8.7 Flood Zone 3

Records within 50m	1

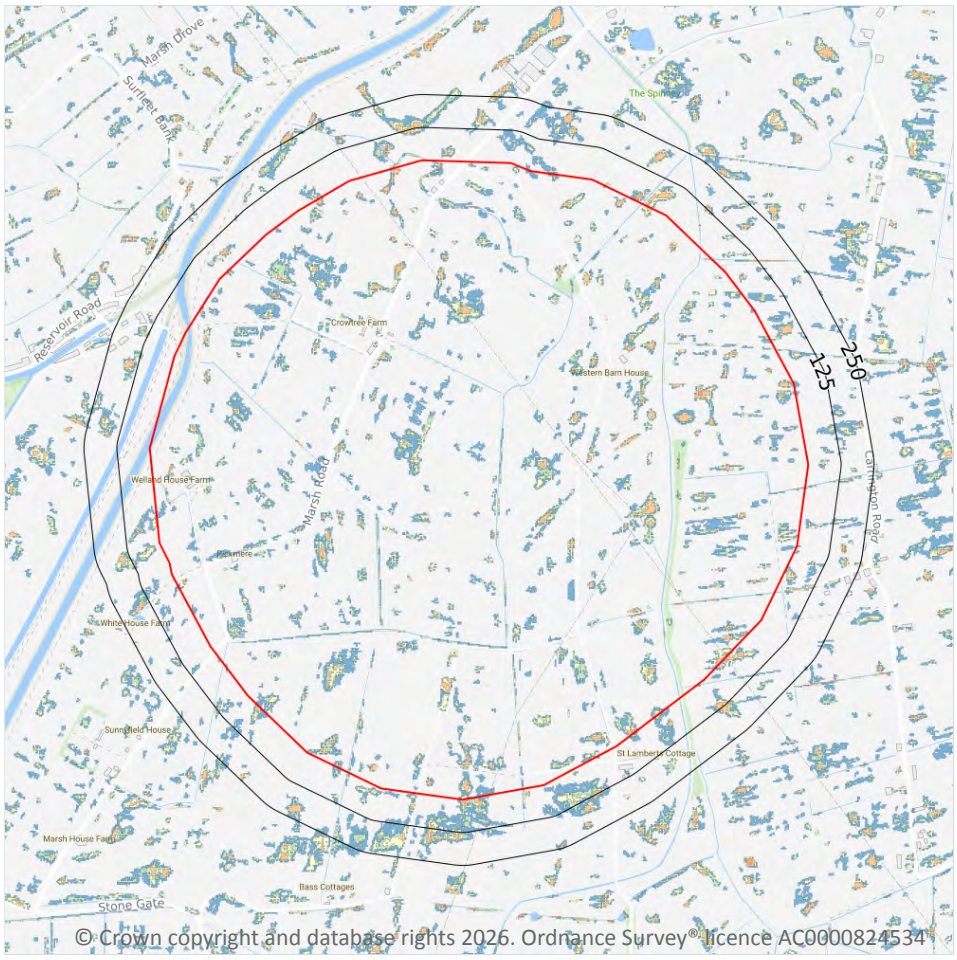
Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

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

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

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

9 Surface water flooding



Site Outline

Search buffers in metres (m)

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

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

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

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

9.1 Surface water flooding

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

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

Features are displayed on the Surface water flooding map on **page 70 >**

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

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

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

This data is sourced from Ambiental Risk Analytics.

10 Groundwater flooding

Site Outline

Search buffers in metres (m)

High

Moderate - High

Moderate

Low

Negligible

10.1 Groundwater flooding

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

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 72 >**

This data is sourced from Ambiental Risk Analytics.

11 Environmental designations

11.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	0

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

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

11.2 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.

11.3 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.

11.4 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.

11.5 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.

11.6 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.

11.7 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.

11.8 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.

11.9 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.

11.10 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.

11.11 Green Belt

Records within 2000m	0

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

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

11.12 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.

11.13 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.

11.14 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.

11.15 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.

11.16 Nitrate Vulnerable Zones

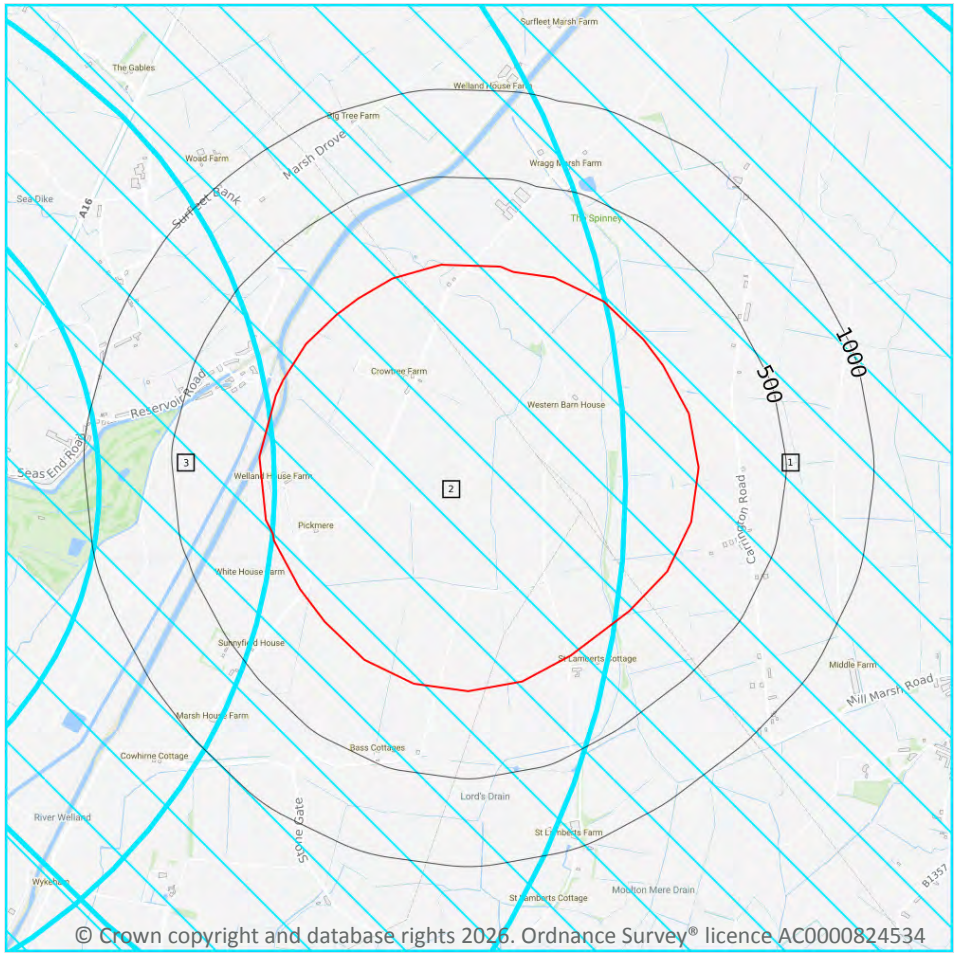
Records within 2000m	4

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

Location	Name	Type	NVZ ID	Status
54m W	Vernatt's Drain NVZ	Surface Water	379	Existing
78m W	Glen NVZ	Surface Water	378	Existing
237m E	Whaplode River NVZ	Surface Water	824	Existing
264m NW	Risegate Eau NVZ	Surface Water	381	Existing

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

SSSI Impact Zones and Units



Site Outline

Search buffers in metres (m)

SSSI Impact Risk Zones

SSSI Units

- Not recorded
- Favourable
- Unfavourable - Recovering
- Unfavourable - No change
- Unfavourable - Declining
- Partially destroyed
- Destroyed

11.17 SSSI Impact Risk Zones

Records on site	3

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 77 >**

ID	Location	Type of developments requiring consultation
1	On site	https://irz.geodata.org.uk/IRZ/step2.html?irzcode=0300000000050&notes=&location=537394,328095%20(IRZ%20polygon%20centre)
2	On site	https://irz.geodata.org.uk/IRZ/step2.html?irzcode=0300000500050&notes=&location=527032,332194%20(IRZ%20polygon%20centre)

ID	Location	Type of developments requiring consultation
3	**On site**	**https://irz.geodata.org.uk/IRZ/step2.html?irzcode=0301000500050&notes=&location=526148,331007%20(IRZ%20polygon%20centre)**

This data is sourced from Natural England.

11.18 SSSI Units

Records within 2000m	**0**

Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

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

12 Visual and cultural designations

12.1 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.

12.2 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.

12.3 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.

12.4 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.

12.5 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.

12.6 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.

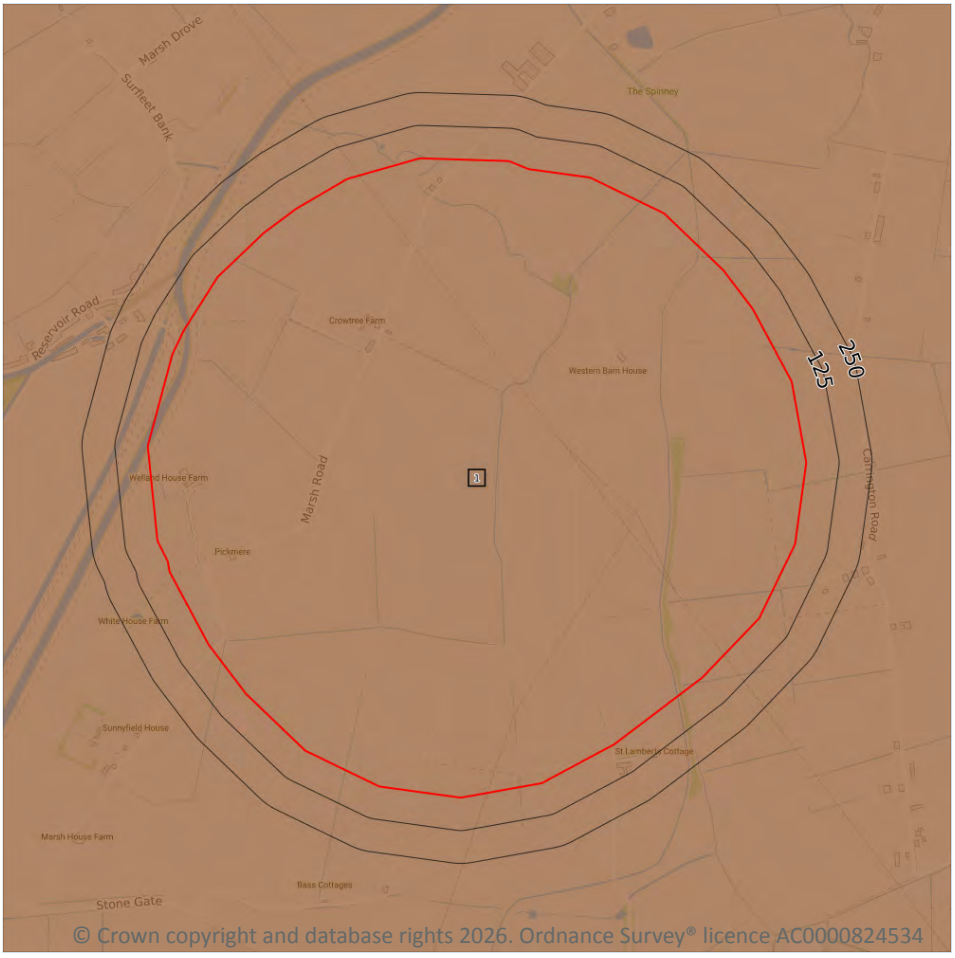
12.7 Registered Parks and Gardens

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.

13 Agricultural designations



Site Outline

Search buffers in metres (m)

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

13.1 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 81 >**

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

This data is sourced from Natural England.

13.2 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.

13.3 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.

13.4 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.

13.5 Countryside Stewardship Schemes

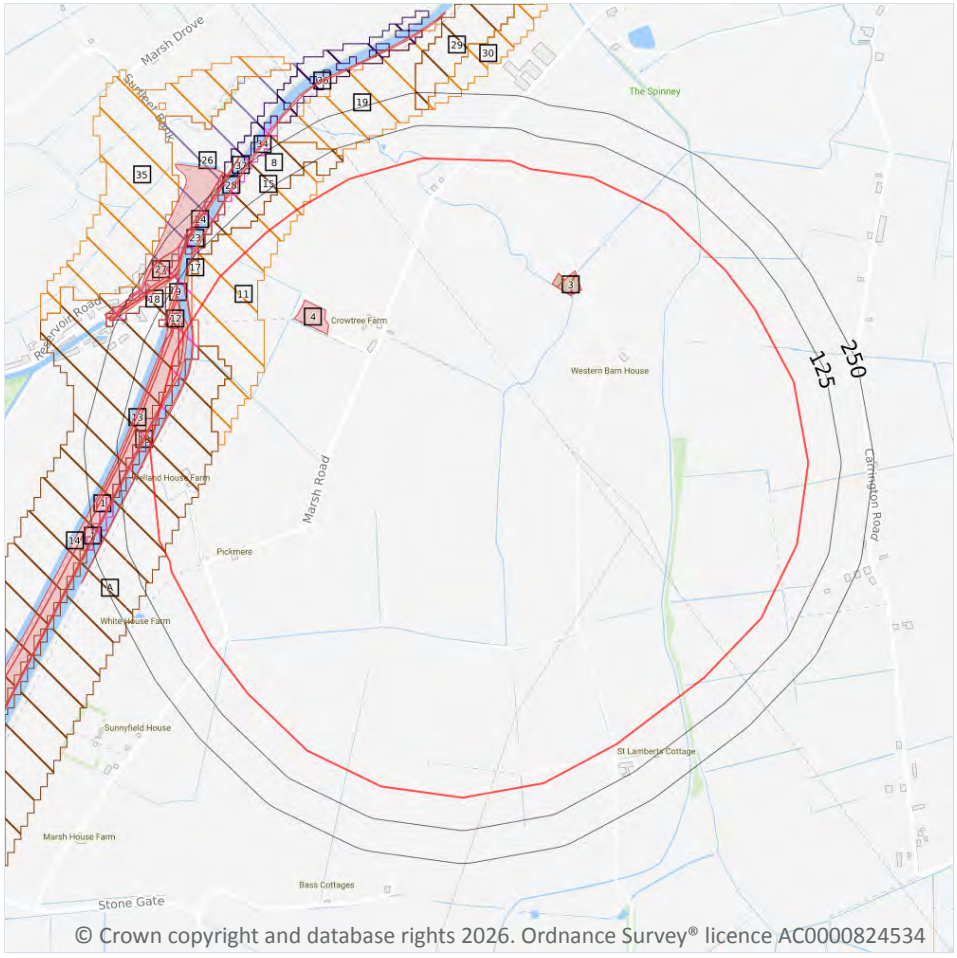
Records within 250m	1

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.

Location	Reference	Scheme	Start Date	End Date
On site	**807146**	**Countryside Stewardship (Middle Tier)**	**01/01/2020**	**31/12/2024**

This data is sourced from Natural England.

14 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

14.1 Priority Habitat Inventory

Records within 250m	19

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

Features are displayed on the Habitat designations map on **page 83 >**

ID	Location	Main Habitat	Other habitats
1	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
2	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%); MUDFL (INV > 50%)
3	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

ID	Location	Main Habitat	Other habitats
5	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
6	**On site**	**Mudflats**	**Main habitat: MUDFL (INV > 50%)**
7	**On site**	**Mudflats**	**Main habitat: MUDFL (INV > 50%)**
8	**On site**	**Mudflats**	**Main habitat: MUDFL (INV > 50%)**
12	13m NW	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
13	36m W	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
14	48m W	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
16	64m NW	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
18	79m NW	Mudflats	Main habitat: MUDFL (INV > 50%)
21	136m NW	Mudflats	Main habitat: MUDFL (INV > 50%)
B	146m NW	Mudflats	Main habitat: MUDFL (INV > 50%)
24	155m NW	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%); MUDFL (INV > 50%)
25	156m NW	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
32	195m NW	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
33	225m NW	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)

This data is sourced from Natural England.

14.2 Habitat Networks

Records within 250m	**22**

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 83 >**

ID	Location	Type	Habitat
9	**On site**	**Associated Habitats**	**Other associated habitats**
10	**On site**	**Associated Habitats**	**Other associated habitats**
11	**On site**	**Network Enhancement Zone 1**	**Not specified**
A	**On site**	**Network Enhancement Zone 2**	**Not specified**
15	49m NW	Network Enhancement Zone 2	Not specified

ID	Location	Type	Habitat
17	75m NW	Network Enhancement Zone 2	Not specified
19	92m N	Network Enhancement Zone 1	Not specified
20	119m NW	Network Enhancement Zone 2	Not specified
22	137m NW	Network Enhancement Zone 2	Not specified
23	155m NW	Network Enhancement Zone 2	Not specified
A	159m W	Associated Habitats	Other associated habitats
B	165m NW	Network Enhancement Zone 2	Not specified
26	172m NW	Restorable Habitat	Not specified
27	172m NW	Network Enhancement Zone 2	Not specified
28	177m NW	Associated Habitats	Other associated habitats
29	186m N	Network Enhancement Zone 2	Not specified
30	186m N	Network Enhancement Zone 1	Not specified
31	194m NW	Network Enhancement Zone 2	Not specified
34	229m NW	Associated Habitats	Other associated habitats
35	238m NW	Network Enhancement Zone 1	Not specified
36	239m NW	Primary Habitat	Saltmarsh
37	244m NW	Network Enhancement Zone 2	Not specified

This data is sourced from Natural England.

14.3 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.

14.4 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.

Data providers

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

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Groundsure LOCATION INTELLIGENCE

Geo Insight

WESTON MARSH SUBSTATION, PE13 5LF

Order Details

Date: 06/02/2026

Your ref: 440.V12844.00WA1 PO MF-23935

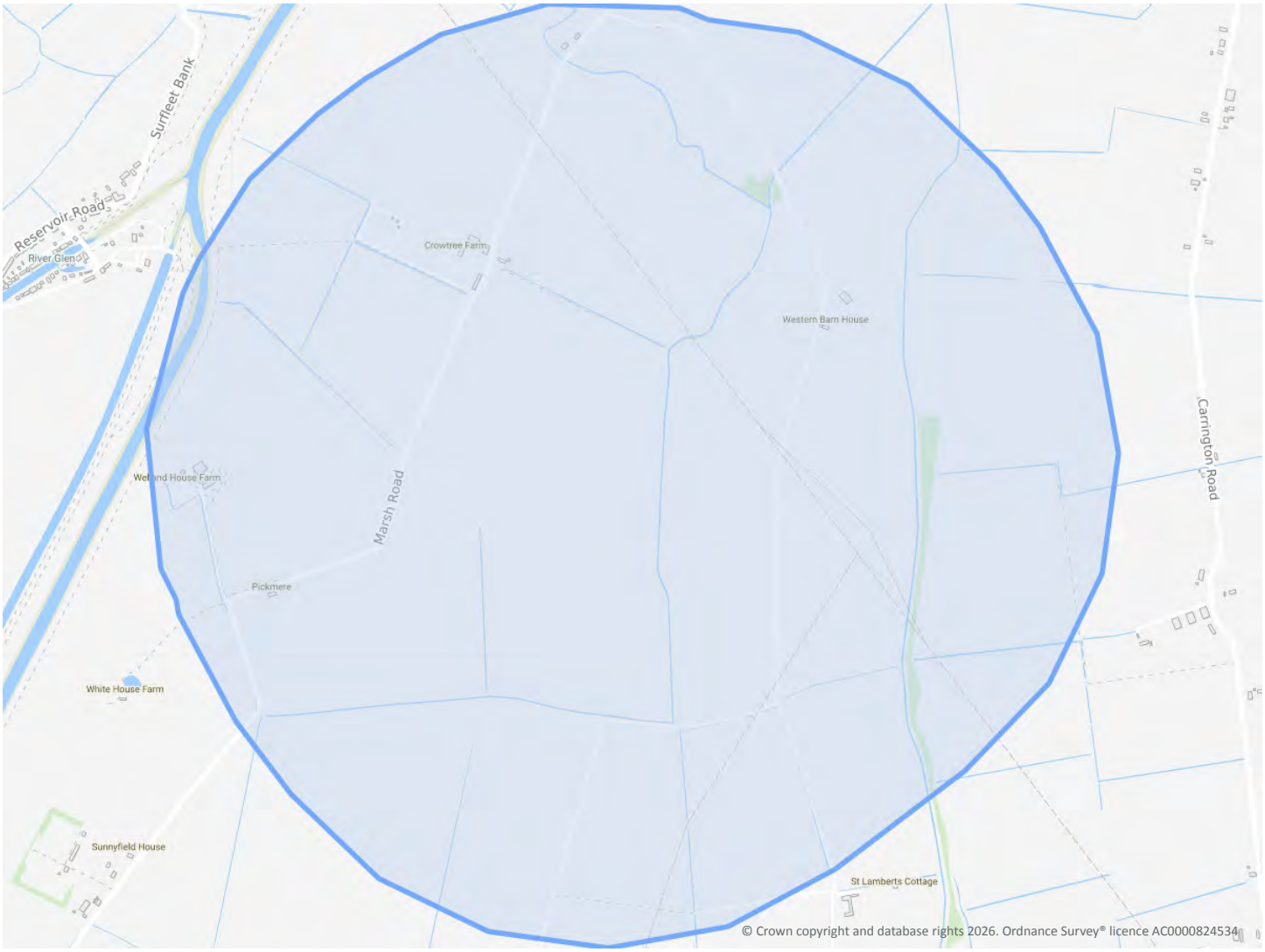
Our Ref: GS-NV6-ZB7-JZM-7H5

Site Details

Location: 529378 328697

Area: 462.15 ha

Authority: South Holland District Council ↗



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

Certified B Corporation

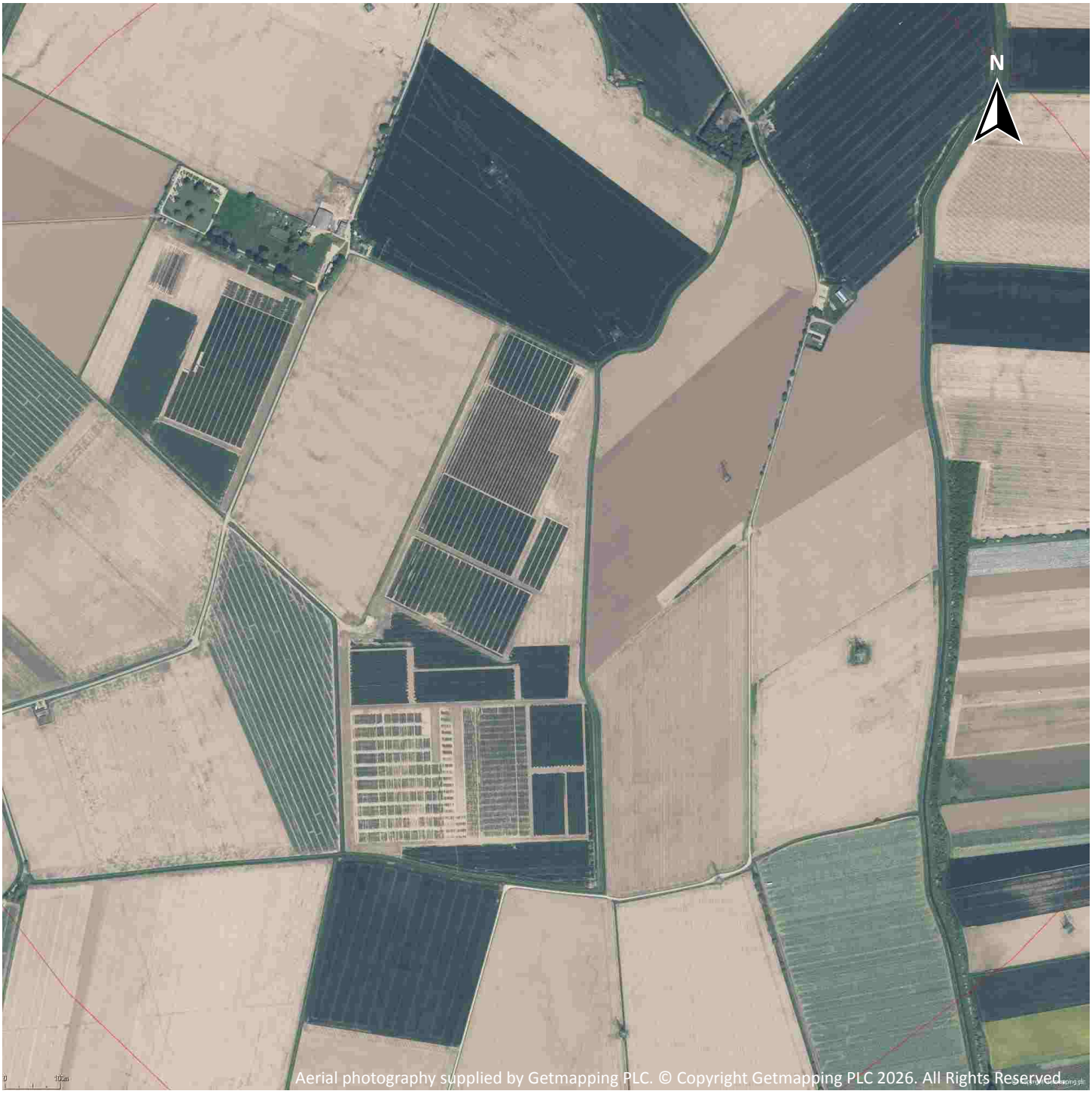
Summary of findings

Page	Section	Geology 1:10,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
10 >	1.1 >	10k Availability >	Identified (within 500m)				
11	1.2	Artificial and made ground (10k)	0	0	0	0	-
12	1.3	Superficial geology (10k)	0	0	0	0	-
12	1.4	Landslip (10k)	0	0	0	0	-
13	1.5	Bedrock geology (10k)	0	0	0	0	-
13	1.6	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
14 >	2.1 >	50k Availability >	Identified (within 500m)				
15	2.2	Artificial and made ground (50k)	0	0	0	0	-
15	2.3	Artificial ground permeability (50k)	0	0	-	-	-
16 >	2.4 >	Superficial geology (50k) >	1	0	0	0	-
17 >	2.5 >	Superficial permeability (50k) >	Identified (within 50m)				
17	2.6	Landslip (50k)	0	0	0	0	-
17	2.7	Landslip permeability (50k)	None (within 50m)				
18 >	2.8 >	Bedrock geology (50k) >	1	0	0	0	-
19 >	2.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
19	2.10	Bedrock faults and other linear features (50k)	0	0	0	0	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
20 >	3.1 >	BGS Boreholes >	14	1	1	-	-
Page	Section	Natural ground subsidence >					
22 >	4.1 >	Shrink swell clays >	Low (within 50m)				
23 >	4.2 >	Running sands >	Moderate (within 50m)				
24 >	4.3 >	Compressible deposits >	Moderate (within 50m)				
25 >	4.4 >	Collapsible deposits >	Negligible (within 50m)				
26 >	4.5 >	Landslides >	Very low (within 50m)				
27 >	4.6 >	Ground dissolution of soluble rocks >	Negligible (within 50m)				

Page	Section	Mining and ground workings >	On site	0-50m	50-250m	250-500m	500-2000m
29	5.1	BritPits	0	0	0	0	-
30 >	5.2 >	Surface ground workings >	4	12	22	-	-
31	5.3	Underground workings	0	0	0	0	0
31	5.4	Underground mining extents	0	0	0	0	-
32	5.5	Historical Mineral Planning Areas	0	0	0	0	-
32	5.6	Non-coal mining	0	0	0	0	0
32	5.7	JPB mining areas	None (within 0m)				
32	5.8	The Coal Authority non-coal mining	0	0	0	0	-
33	5.9	Researched mining	0	0	0	0	-
33	5.10	Mining record office plans	0	0	0	0	-
33	5.11	BGS mine plans	0	0	0	0	-
33	5.12	Coal mining	None (within 0m)				
33	5.13	Brine areas	None (within 0m)				
34	5.14	Gypsum areas	None (within 0m)				
34	5.15	Tin mining	None (within 0m)				
34	5.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
35	6.1	Natural cavities	0	0	0	0	-
35	6.2	Mining cavities	0	0	0	0	0
35	6.3	Reported recent incidents	0	0	0	0	-
35	6.4	Historical incidents	0	0	0	0	-
Page	Section	Radon >					
37 >	7.1 >	Radon >	Less than 1% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
39 >	8.1 >	BGS Estimated Background Soil Chemistry >	55	2	-	-	-
41	8.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
41	8.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects >	On site	0-50m	50-250m	250-500m	500-2000m

42	9.1	Underground railways (London)	0	0	0	-	-
42	9.2	Underground railways (Non-London)	0	0	0	-	-
43	9.3	Railway tunnels	0	0	0	-	-
43 >	**9.4 >**	**Historical railway and tunnel features >**	2	0	0	-	-
43	9.5	Royal Mail tunnels	0	0	0	-	-
43	9.6	Historical railways	0	0	0	-	-
44	9.7	Railways	0	0	0	-	-
44	9.8	Crossrail 2	0	0	0	0	-
44	9.9	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 29/05/2021

Site Area: 462.15ha

Recent site history - 2018 aerial photograph

Capture Date: 20/04/2018

Site Area: 462.15ha

Recent site history - 2015 aerial photograph

Capture Date: 18/07/2015

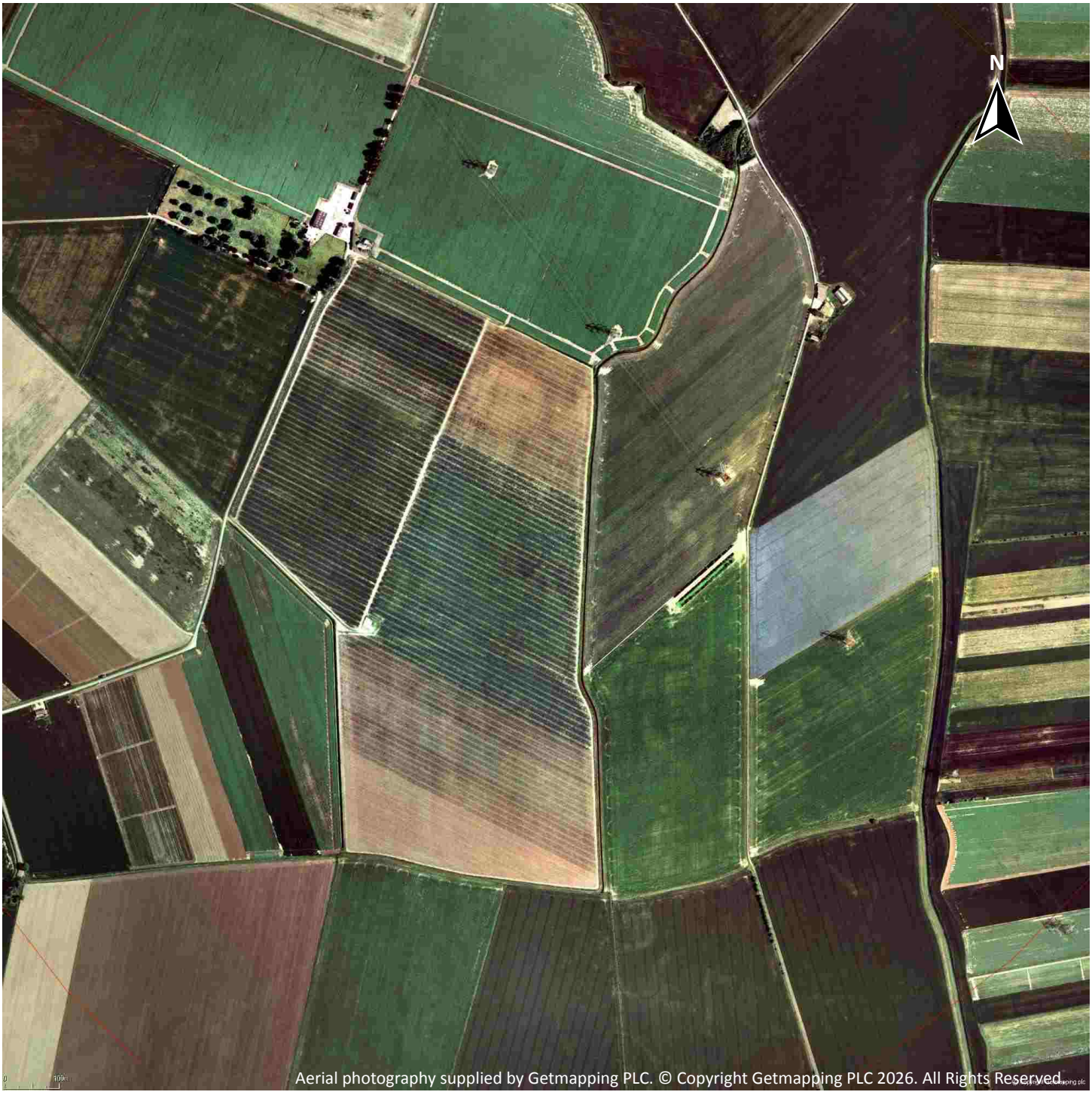
Site Area: 462.15ha

Recent site history - 2007 aerial photograph

Capture Date: 12/09/2007

Site Area: 462.15ha

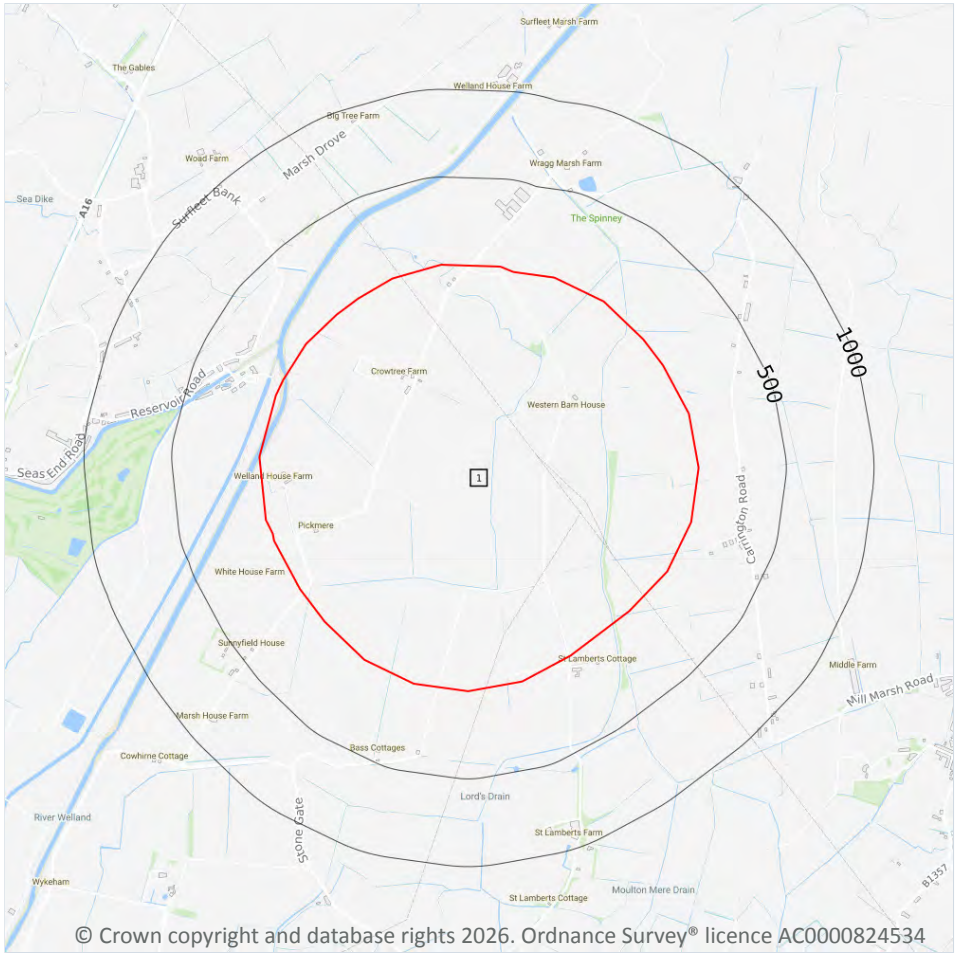
Recent site history - 1999 aerial photograph



Capture Date: 18/06/1999

Site Area: 462.15ha

1 Geology 1:10,000 scale - Availability



Site Outline

Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

1.1 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 10 >**

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

This data is sourced from the British Geological Survey.

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

1.2 Artificial and made ground (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial

1.3 Superficial geology (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

1.4 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

1.5 Bedrock geology (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

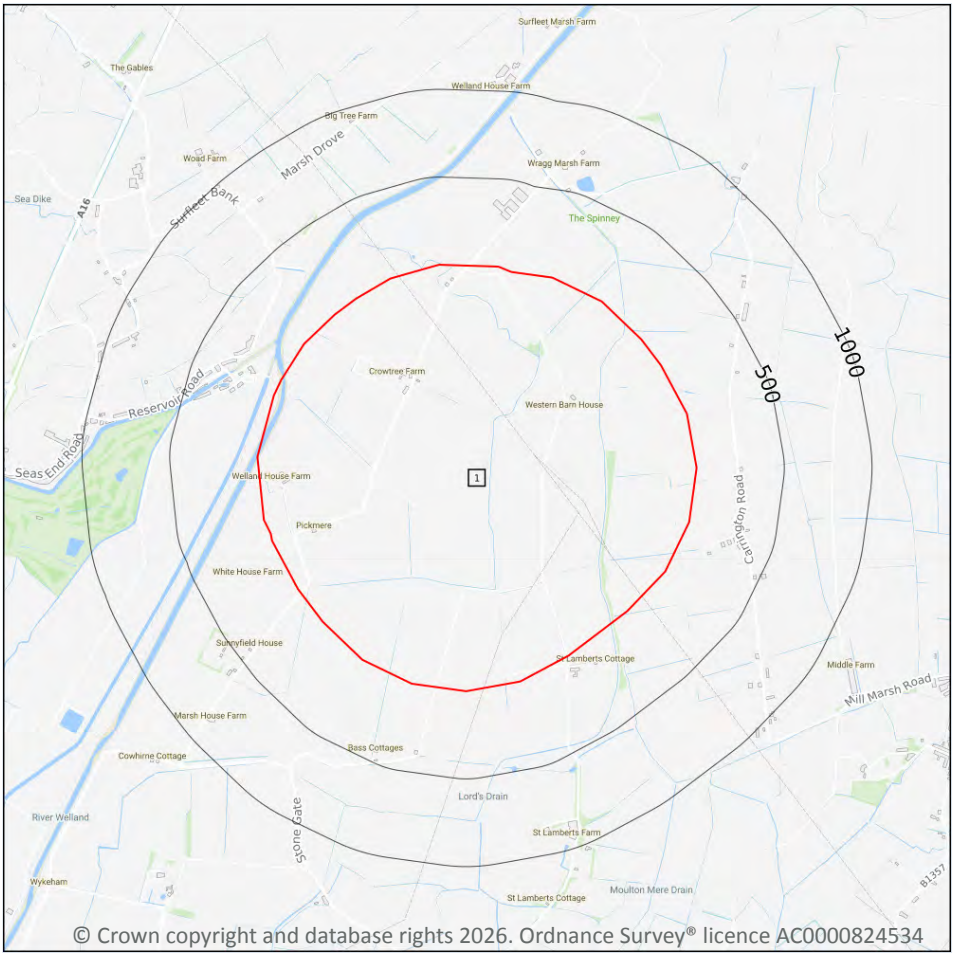
1.6 Bedrock faults and other linear features (10k)

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.

2 Geology 1:50,000 scale - Availability



Site Outline

Search buffers in metres (m)

Geological map tile

2.1 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 14 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**No coverage**	**EW144_spalding_v4**

This data is sourced from the British Geological Survey.

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

2.2 Artificial and made ground (50k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

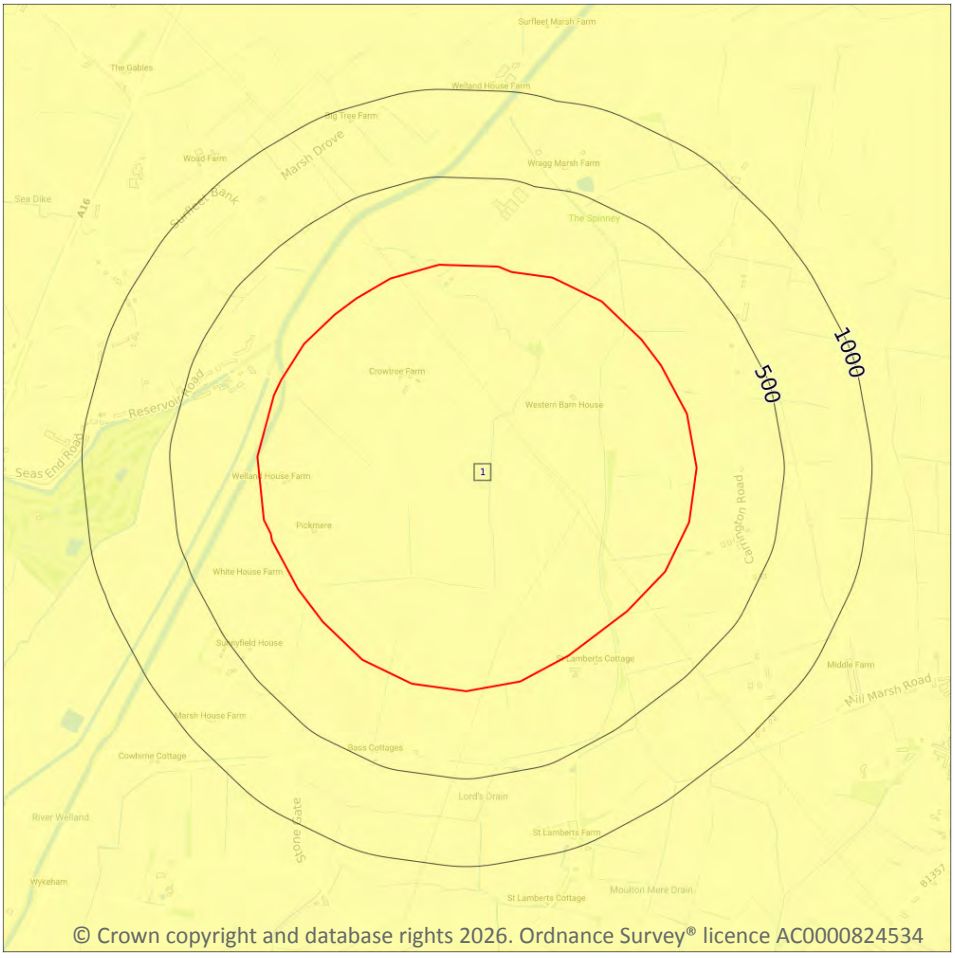
2.3 Artificial ground permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

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

2.4 Superficial geology (50k)

Records within 500m	1

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

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 16 >**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**TFD-XCZ**	**Tidal flat deposits**	**Clay and silt**

This data is sourced from the British Geological Survey.

2.5 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**	**Low**	**Very Low**

This data is sourced from the British Geological Survey.

2.6 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.

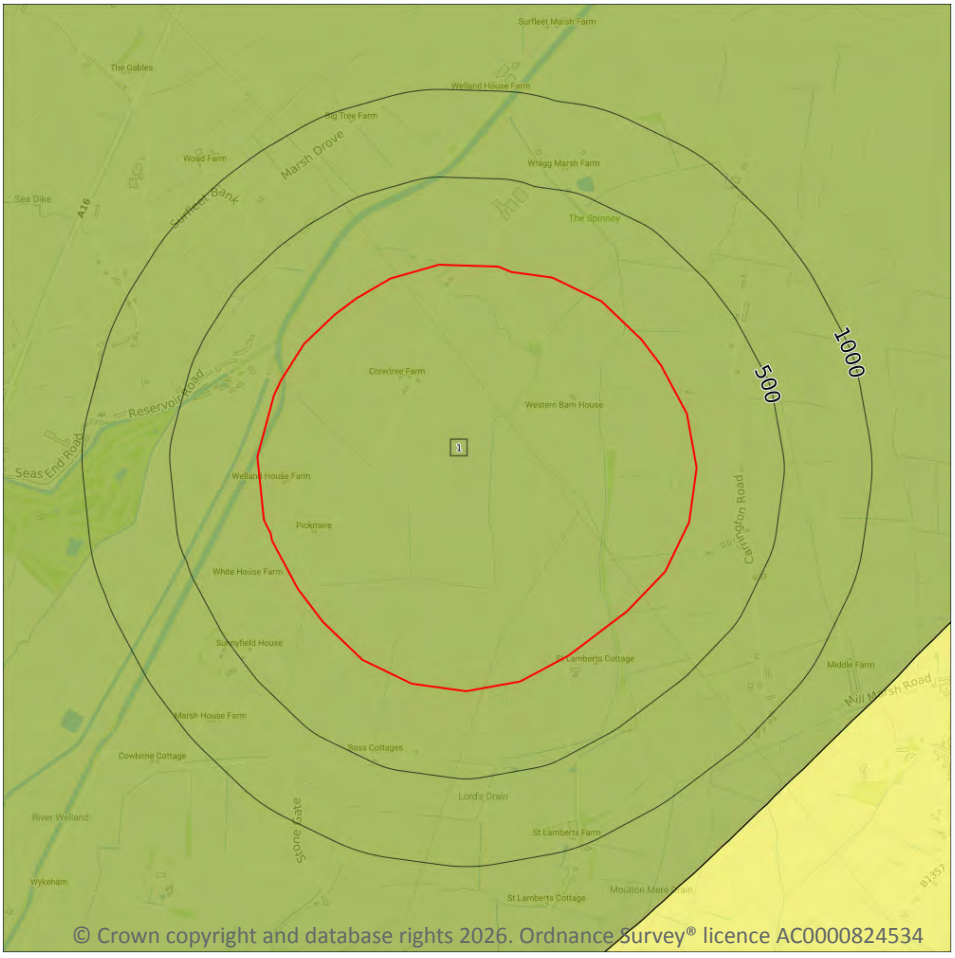
2.7 Landslip permeability (50k)

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.

2.8 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 18 >**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**OXC-MDST**	**Oxford Clay Formation-Mudstone**	**Callovian**

This data is sourced from the British Geological Survey.

2.9 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**	**Low**	**Very Low**

This data is sourced from the British Geological Survey.

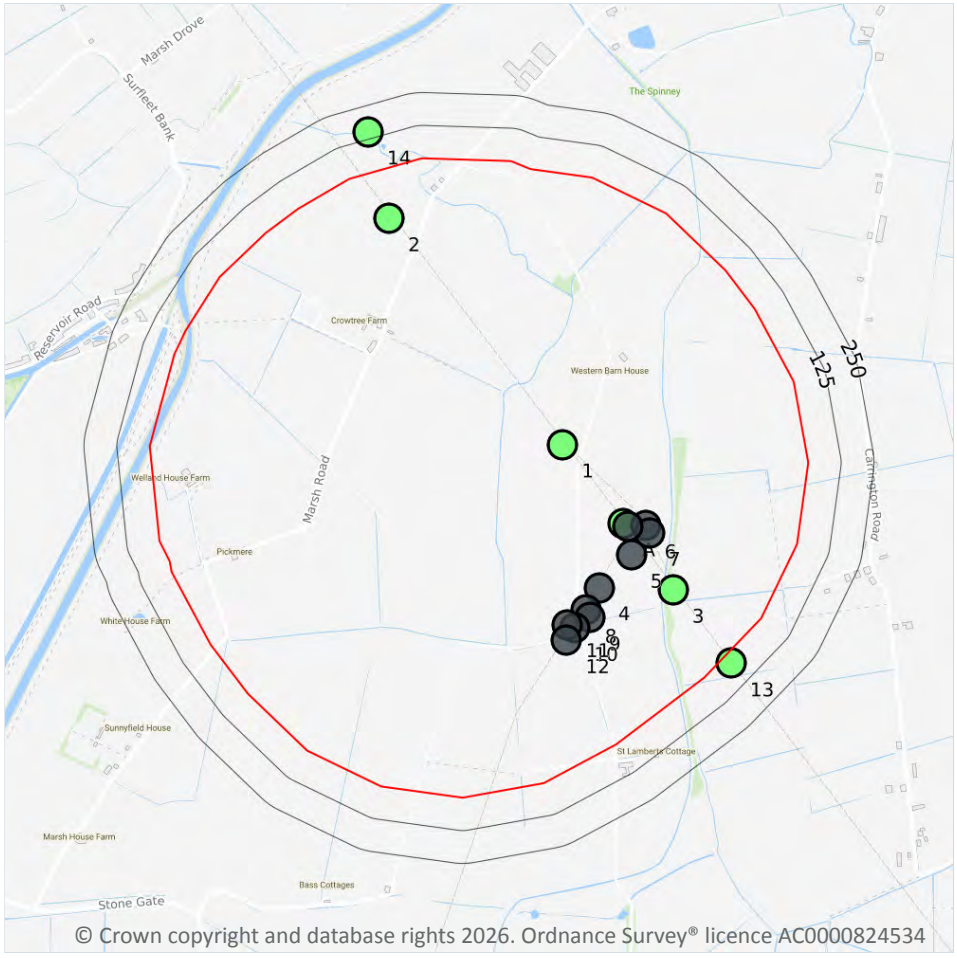
2.10 Bedrock faults and other linear features (50k)

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.

3 Boreholes



Site Outline

Search buffers in metres (m)

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

3.1 BGS Boreholes

Records within 250m	16

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.

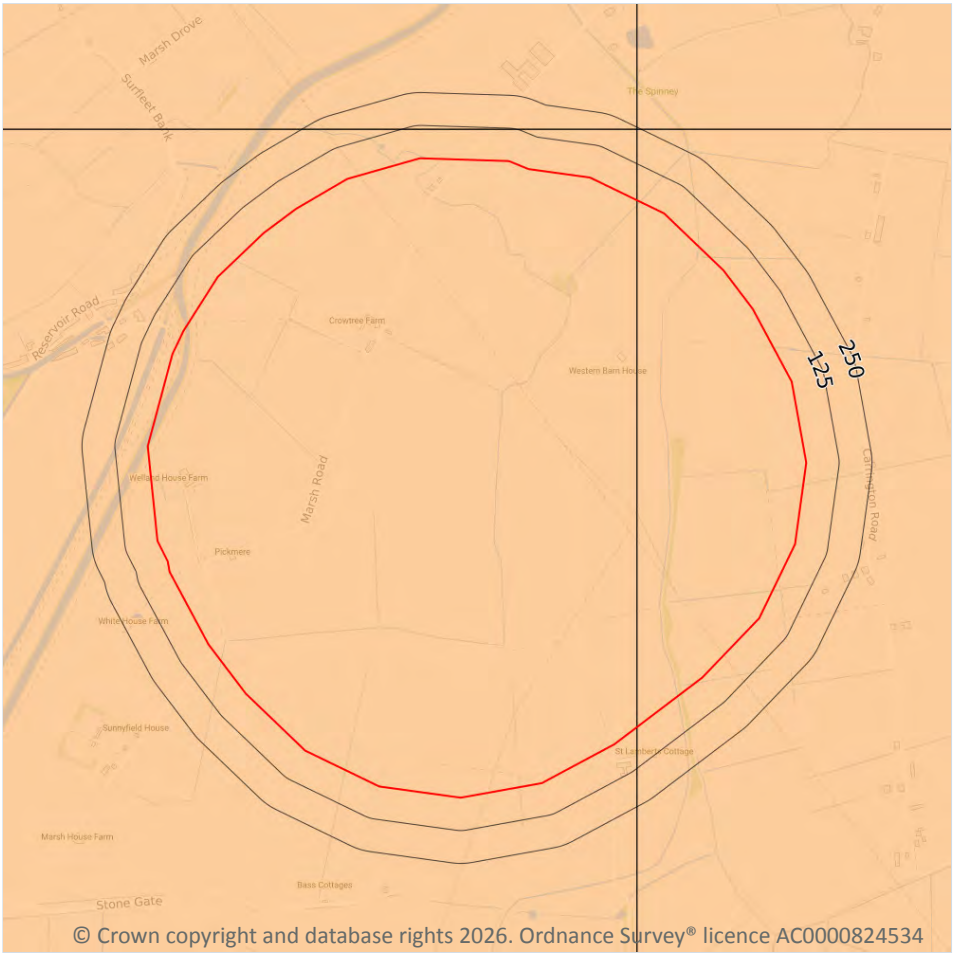
Features are displayed on the Boreholes map on **page 20 >**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	529710 328800	CEGB W.BURTON-WALTHAM X 400KV LINE 408	12.19	N	473590 ↗
2	On site	529050 329660	CEGB W.BURTON-WALTHAM X 400KV LINE 411	12.19	N	473593 ↗
3	On site	530130 328250	CEGB W BURTON-WALTHAM X 400KV LINE 406	12.19	N	504064 ↗

ID	Location	Grid reference	Name	Length	Confidential	Web link
4	**On site**	**529849 328257**	**SOUTH HOLLAND POWER CONNECTION, WESTON MARSH, LINCOLNSHIRE BHZCSER1**	**-**	**Y**	**N/A**
5	**On site**	**529971 328383**	**SOUTH HOLLAND POWER CONNECTION, WESTON MARSH, LINCOLNSHIRE BHZCSER2**	**-**	**Y**	**N/A**
6	**On site**	**530025 328495**	**SOUTH HOLLAND POWER CONNECTION, WESTON MARSH, LINCOLNSHIRE BHZCSE11**	**-**	**Y**	**N/A**
7	**On site**	**530040 328464**	**SOUTH HOLLAND POWER CONNECTION, WESTON MARSH, LINCOLNSHIRE BHZCSE12**	**-**	**Y**	**N/A**
8	**On site**	**529798 328173**	**SOUTH HOLLAND POWER CONNECTION, WESTON MARSH, LINCOLNSHIRE BHZCSE21**	**-**	**Y**	**N/A**
9	**On site**	**529813 328145**	**SOUTH HOLLAND POWER CONNECTION, WESTON MARSH, LINCOLNSHIRE BHZCSE22**	**-**	**Y**	**N/A**
10	**On site**	**529757 328105**	**SOUTH HOLLAND POWER CONNECTION, WESTON MARSH, LINCOLNSHIRE BHZWS16R-B**	**-**	**Y**	**N/A**
11	**On site**	**529726 328117**	**SOUTH HOLLAND POWER CONNECTION, WESTON MARSH, LINCOLNSHIRE BHZWS16R-A**	**-**	**Y**	**N/A**
12	**On site**	**529725 328056**	**SOUTH HOLLAND POWER CONNECTION, WESTON MARSH, LINCOLNSHIRE BHZWS16**	**-**	**Y**	**N/A**
A	**On site**	**529940 328500**	**CEGB W.BURTON-WALTHAM X 400KV LINE 407**	**12.19**	**N**	**473589** ↗
A	**On site**	**529956 328489**	**SOUTH HOLLAND POWER CONNECTION, WESTON MARSH, LINCOLNSHIRE BHZWS17**	**-**	**Y**	**N/A**
13	35m SE	530350 327970	CEGB W BURTON-WALTHAM X 400KV LINE 405	12.27	N	504063 ↗
14	153m N	528970 329990	CEGB W.BURTON-WALTHAM X 400KV LINE 412	12.19	N	473592 ↗

This data is sourced from the British Geological Survey.

4 Natural ground subsidence - Shrink swell clays



Site Outline

Search buffers in metres (m)

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

4.1 Shrink swell clays

Records within 50m	1

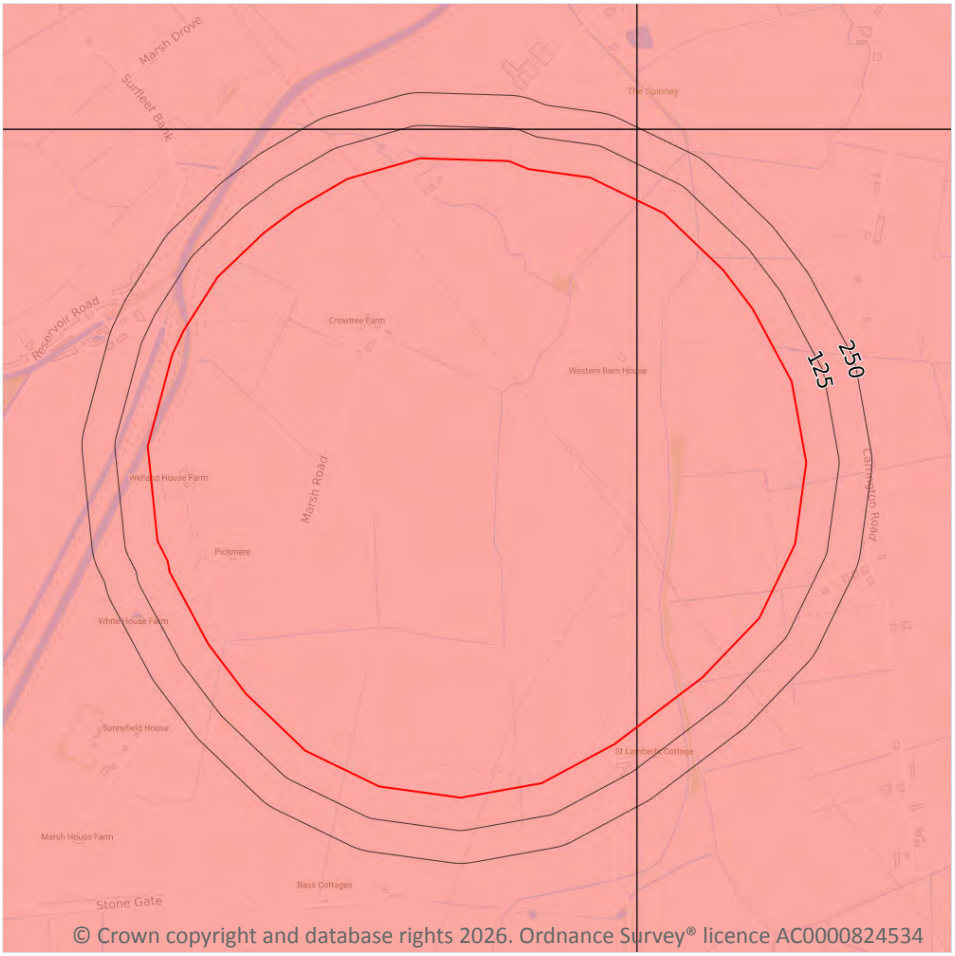
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 22 >**

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

4.2 Running sands

Records within 50m	1

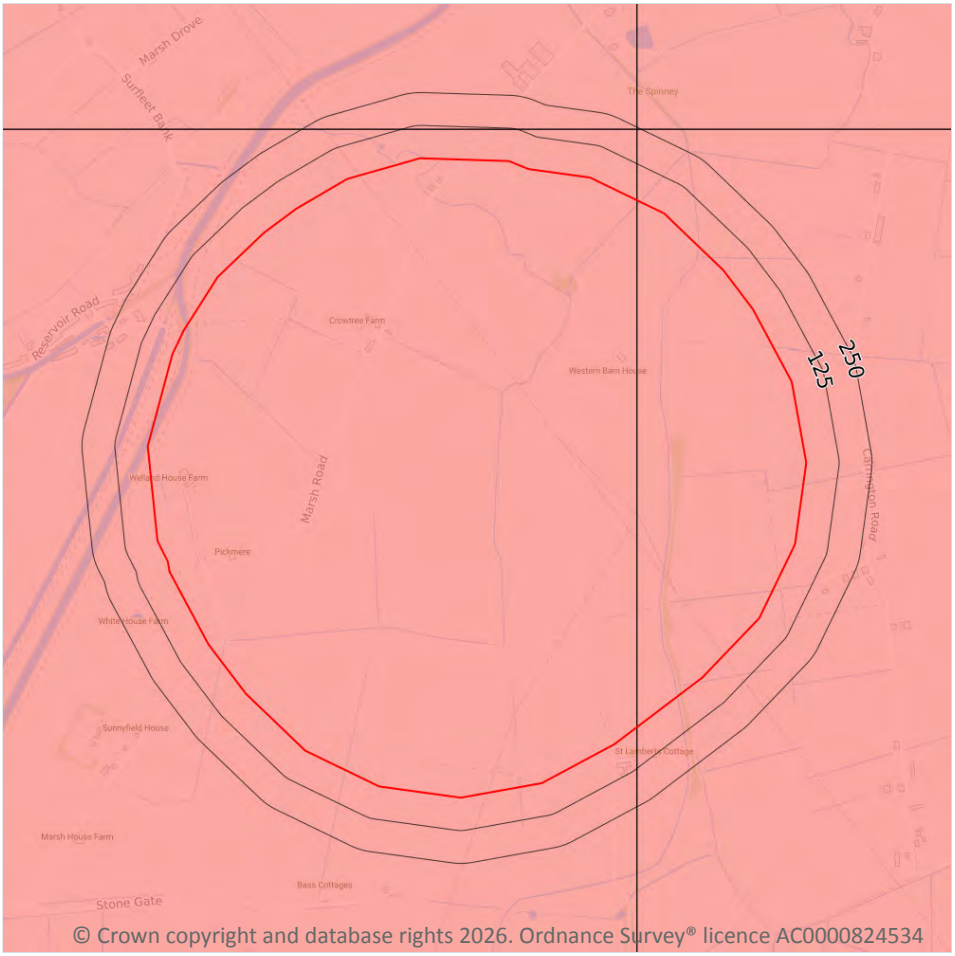
The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on **page 23 >**

Location	Hazard rating	Details
On site	**Moderate**	**Running sand conditions are probably 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

4.3 Compressible deposits

Records within 50m	1

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

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 24 >**

Location	Hazard rating	Details
On site	**Moderate**	**Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.**

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

4.4 Collapsible deposits

Records within 50m	1

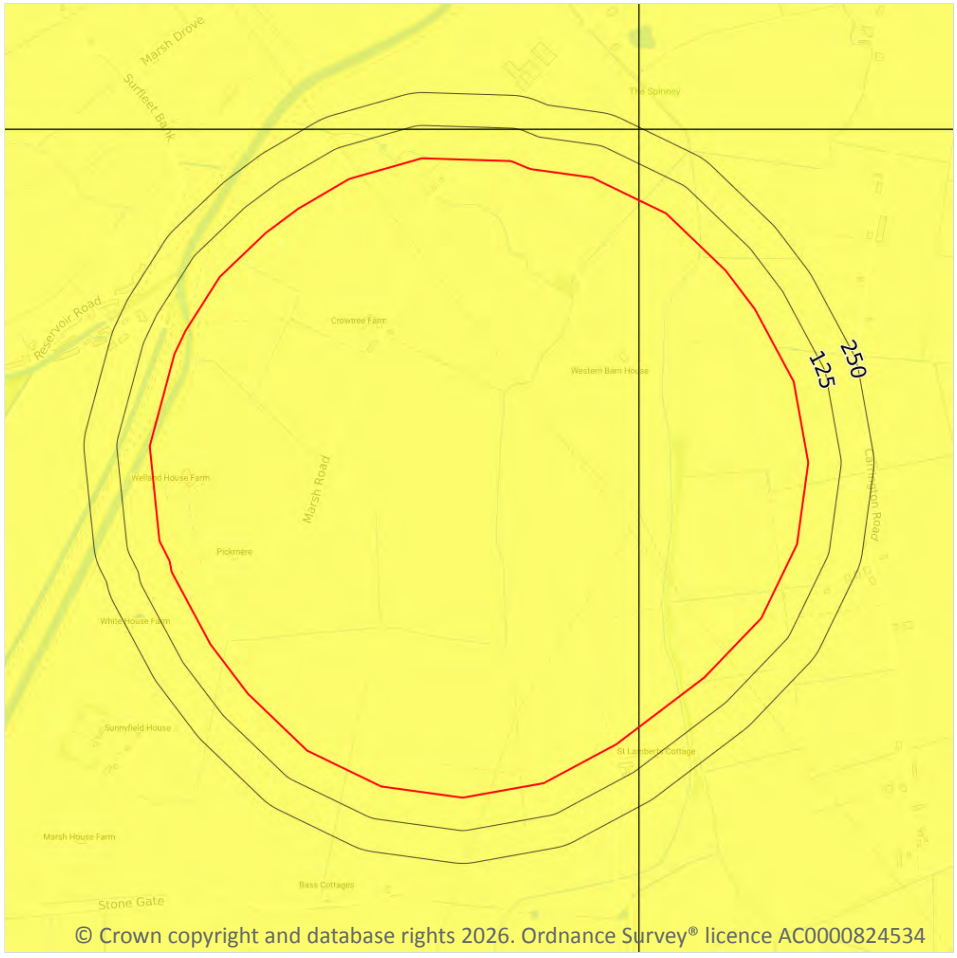
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 25 >**

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

4.5 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 26 >**

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

4.6 Ground dissolution of soluble rocks

Records within 50m	1

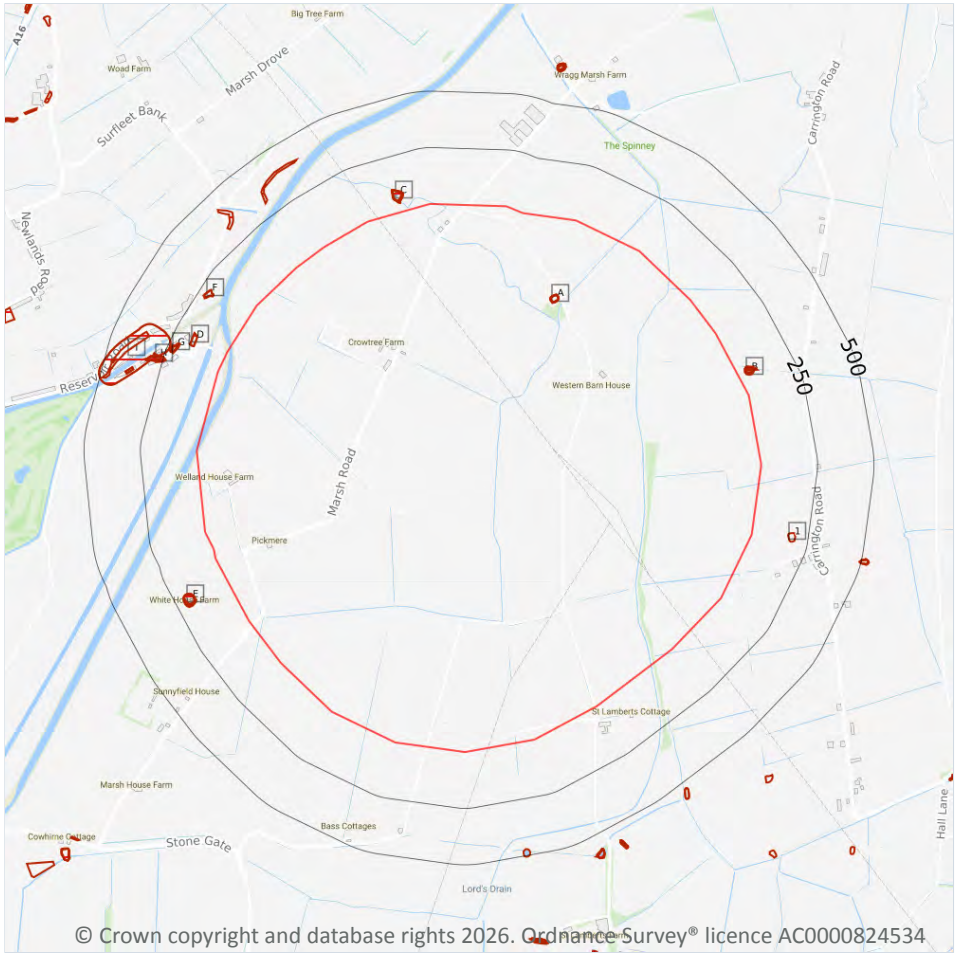
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 27 >**

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.

5 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

5.1 BritPits

Records within 500m	0

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.

This data is sourced from the British Geological Survey.

5.2 Surface ground workings

Records within 250m	38

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 29 >**

ID	Location	Land Use	Year of mapping	Mapping scale
A	**On site**	**Pond**	**1932**	**1:10560**
A	**On site**	**Pond**	**1886**	**1:10560**
A	**On site**	**Pond**	**1947**	**1:10560**
A	**On site**	**Pond**	**1903**	**1:10560**
B	33m NE	Pond	1887	1:10560
B	36m NE	Pond	1950	1:10560
B	36m NE	Pond	1955	1:10560
B	38m NE	Pond	1906	1:10560
B	38m NE	Pond	1977	1:10000
B	41m NE	Pond	1947	1:10560
B	41m NE	Pond	1903	1:10560
C	41m N	Pond	1947	1:10560
C	41m N	Pond	1903	1:10560
C	43m N	Pond	1932	1:10560
C	44m N	Pond	1956	1:10560
C	44m N	Pond	1886	1:10560
C	52m N	Pond	1975	1:10000
D	145m NW	Unspecified Ground Workings	1947	1:10560
D	145m NW	Unspecified Ground Workings	1903	1:10560
1	160m E	Pond	1977	1:10000
E	161m SW	Pond	1887	1:10560
E	163m SW	Pond	1903	1:10560
E	163m SW	Pond	1903	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
E	164m SW	Pond	1950	1:10560
E	164m SW	Pond	1906	1:10560
E	166m SW	Pond	1989	1:10000
E	166m SW	Pond	1975	1:10000
E	167m SW	Pond	1956	1:10560
F	186m NW	Pond	1989	1:10000
F	186m NW	Pond	1975	1:10000
G	205m NW	Pond	1947	1:10560
G	205m NW	Pond	1903	1:10560
G	206m NW	Pond	1886	1:10560
G	207m NW	Pond	1932	1:10560
H	238m W	Pond	1947	1:10560
H	238m W	Pond	1903	1:10560
I	240m NW	Reservoir	1947	1:10560
I	240m NW	Reservoir	1903	1:10560

This is data is sourced from Ordnance Survey®/Groundsure.

5.3 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.

5.4 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.

5.5 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.

5.6 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.

5.7 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.

5.8 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.

5.9 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.

5.10 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.

5.11 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.

5.12 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.

5.13 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.

5.14 Gypsum areas

Records on site	0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

5.15 Tin mining

Records on site	0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

5.16 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).

6 Ground cavities and sinkholes

6.1 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.

6.2 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.

6.3 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.

6.4 Historical incidents

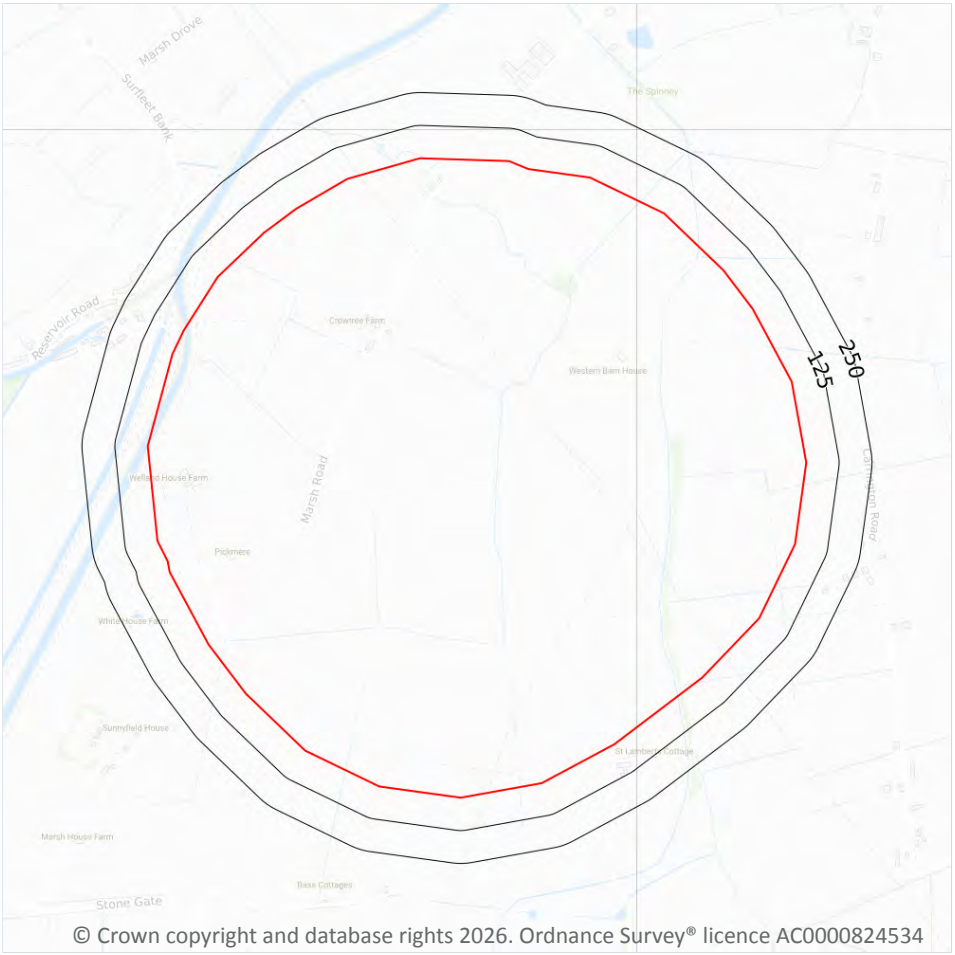
Records within 500m	0

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.

7 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%

7.1 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 37 >**

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.

8 Soil chemistry

8.1 BGS Estimated Background Soil Chemistry

Records within 50m **57**

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

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

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 - 30 mg/kg**
10m SW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
10m SW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

8.2 BGS Estimated Urban Soil Chemistry

Records within 50m	**0**

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

This data is sourced from the British Geological Survey.

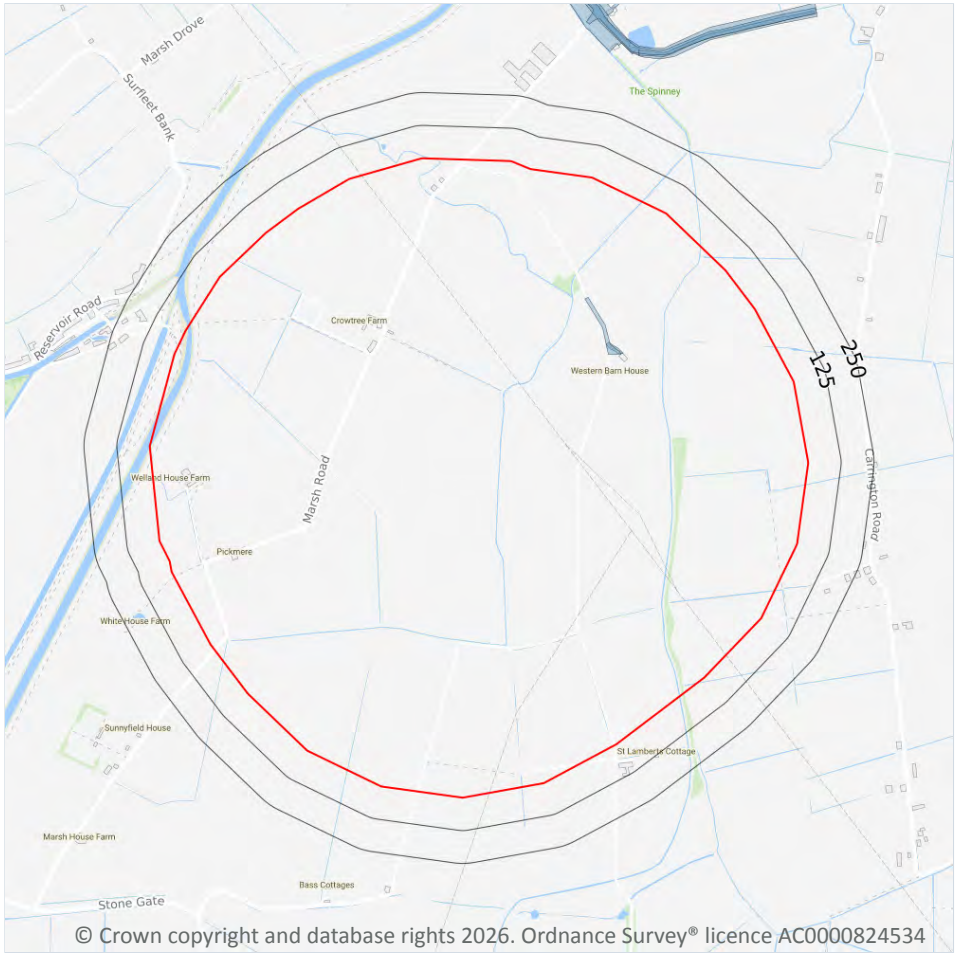
8.3 BGS Measured Urban Soil Chemistry

Records within 50m	**0**

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

This data is sourced from the British Geological Survey.

9 Railway infrastructure and projects



Site Outline

Search buffers in metres (m)

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

9.1 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.

9.2 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.

9.3 Railway tunnels

Records within 250m	0

Railway tunnels taken from contemporary Ordnance Survey® mapping.

This data is sourced from the Ordnance Survey®.

9.4 Historical railway and tunnel features

Records within 250m	2

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 42 >**

Location	Land Use	Year of mapping	Mapping scale
On site	**Tramway Sidings**	**1947**	**10560**
On site	**Tramway Sidings**	**1932**	**10560**

This data is sourced from Ordnance Survey®/Groundsure.

9.5 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.

9.6 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.

9.7 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.

9.8 Crossrail 2

Records within 500m	0

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

This data is sourced from publicly available information by Groundsure.

9.9 HS2

Records within 500m	0

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

This data is sourced from HS2 ltd.

Data providers

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

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Appendix B Guidance on Contamination

B.1. Environmental Protection Act 1990 – Part IIA

B.1.1. Contaminated Land was defined for the first time under Part IIA of the Environmental Protection Act 1990. Part IIA was inserted into the 1990 Act by section 57 of the Environment Act 1995. The regime came into effect in England on 1 April 2000, Scotland on 12 July 2000 and Wales on 15 September 2001.

B.1.2. Contaminated Land is defined as any land which appears to the local authority in whose area it is situated to be in such a condition, by reason of substances in, on or under the land, that:

2) 1) Significant harm is being caused or there is a significant possibility of such harm being caused; or

3) Significant pollution of the water environment is being caused or there is a significant possibility of such pollution being caused.

B.1.3. Harm is described in the EPA 1990 as being:

"Harm to the health of living organisms or other interference with ecological systems of which they form part and, in the case of man, includes harm to his property".

B.1.4. There are a number of important government policies and priorities underlying the Act. The first priority is to prevent the creation of new contamination by use of this Act and other controls such as Environmental Permitting (formerly regulated by Integrated Pollution Prevention and Control and Waste Management licensing). The second is to identify and remove unacceptable risks to human health and the environment. In addition, there is a desire to bring Contaminated Land back into beneficial use whilst seeking to ensure that the cost burdens faced by individuals, companies and society as a whole are proportionate, manageable and economically sustainable.

B.1.5. Under Part IIA, Local Authorities are responsible for the inspection of Contaminated Land and for ensuring that remediation is undertaken where necessary. Local Authorities also maintain a Public Register detailing the regulatory actions that they have implemented. The Environment Agency has a complementary role and act as the enforcing Authority for designated special sites.

B.1.6. The policy objectives are underlain by the "suitable for use" approach to the remediation of Contaminated Land, which the Government considers is the most appropriate approach to achieving sustainable development. This approach recognises that the risks presented by any given level of contamination will vary greatly on a site by site basis.

B.1.7. In general, the responsibility for paying for remediation will, where feasible, follow the "polluter pays" principle. In the first instance, any person who caused or knowingly permitted the contaminating substance to be in, or under the Land will be the appropriate person(s) to undertake the remediation and meet its costs. If it is not possible to find such a person, responsibility will pass to the current owner or occupier of the Land.

B.2. Planning Regime

B.2.1. Land contamination, or the possibility of it, is a material consideration for the purposes of town and country planning. This means that the planning authority has to consider the potential implications of contamination both when it is developing structure or local plans and when it is considering individual applications for planning permission. Under the suitable for use approach, risks should be assessed and remediation requirements set, on the basis of both the current use and its proposed new use.

B.2.2. The planning policy varies by country, with the National Planning Policy Framework (NPPF) in England, the National Planning Framework (NPF) in Scotland, Planning Policy Wales, and the Strategy Planning Policy Statement in Northern Ireland. These planning policies outline government policies against which local plans are made for housing and other developments. There are also a number of local planning policies.

B.3. Land Contamination Risk Management – LCRM

Guidance on Contaminated Land Risk Assessment

B.3.1. In the UK, Contaminated Land is regulated by the planning and development control system and the contaminated land regime set out in Part IIA of the Environmental Protection Act (EPA) 1990.

B.3.2. When considering an application for development, the potential for the land to be contaminated is a material consideration, and the local planning authority should satisfy itself that any contamination is properly assessed and adequately remediated, based on a suitable for use approach. This is to ensure that the land is made suitable for its proposed new use.

B.3.3. The Environment Agency's (EA) Land Contamination Risk Management (LCRM) is the basis of contaminated land risk assessment in England, Wales, and Northern Ireland. It follows a three tier system of risk assessment (Preliminary Risk Assessment, Generic Quantitative Risk Assessment, and Detailed Quantitative Risk Assessment) prior to undertaking an options appraisal and remediation.

B.3.4. Guidance on the investigation of contamination is contained in British Standard 10175:2026 "Investigation of potentially contaminated sites - Code of Practice". It involves an identification of risks due to the presence of contaminants, and an assessment of those risks based on the:

1) Possible sources of contamination;

2) Identification of who or what may be affected by the contaminants (the receptors);

3) Possible pathways by which contaminants may migrate to one or more of the receptors.

B.3.5. A conceptual site model (CSM) is a representation of the environmental processes that occur on and in the vicinity of the Site and its purpose is to identify the potential contamination linkages that exist on the Site. The assessment of the significance of these contamination linkages can then be carried out through the risk assessment process.

B.3.6. A CSM is a representation of the environmental processes that occur on and in the vicinity of the Site and its purpose is to identify the potential contamination linkages that exist on the site. The assessment of the significance of these contamination linkages can then be carried out through the risk assessment process.

B.3.7. Such a model should be developed for every Site. The CSM is an iterative process of all relevant and available information, including outlining any uncertainties that may be present. Accordingly, the results of the desk study research on the Site are used to identify the source-pathway-receptor relationships (contaminant linkages) that exist on the Site before and during redevelopment works. During the iterations brought about by obtaining more data (e.g. from site investigation), these identified contaminant linkages are refined and confirmed to enable mitigation (remediation).

B.3.8. In line with the guidance of BS21365:2020 “Soil quality – Conceptual Site Models for potentially contaminated sites” and LCRM, the CSM can be presented in different ways, such as: written description of the Site; tabular or matrix description; and/or drawing or diagrammatic illustration, where the complexity of the model should be consistent with the complexity of the Site.

B.4. Environmental Risk Assessment Methodology

B.4.1. In line with EA guidance, LCRM, plausible source, pathway and receptor linkages are identified through the CSM, considering all feasible changes (e.g. as a result of the development, or climate change). The information gathered in the CSM can be used to carry out a Qualitative Risk Assessment (QRA).

B.4.2. LCRM outlines that for each tier of Risk Assessment the following steps must be taken:

1) Identify the hazard – establish contaminant sources.
2) Assess the hazard – use a source-pathway-receptor (SPR) linkage approach to find out of there is the potential for unacceptable risk.
3) Estimate the risk – predict what degree of harm or pollution might result and how likely it is to occur by using the tiered approach to risk assessment.
4) Evaluate the risk – decide whether a risk is unacceptable.

B.4.3. LCRM states that the assessment must be based on the potential severity that the risk poses to the receptors against the likelihood of it happening. Subsequently, it is necessary to employ a risk assessment matrix. The CIRIA document “Contaminated Land Risk Assessment – a guide to good practice C552”, 2001 provides a good example of suitable risk assessment matrices.

B.4.4. In the CIRIA methodology, the sensitivity assessment considers the contaminant-pathway-receptor in conjunction with the contamination linkage concept (described below). This information is then used to classify consequences and the probability of a contamination linkage occurring, affording the level of sensitivity of a given receptor to be established.

Contaminant Linkage Concept

B.4.5. In forming a risk assessment for land contamination, there are three essential elements to be given consideration collectively known as a ‘contaminant linkage’:

5) A contaminant/source – a substance that is in, on or under the land and has potential to cause harm or to cause pollution of controlled waters;

6) A receptor – in general terms, something that could be adversely affected by a contaminant, these can include people, an ecological system, property or a water body; and,

7) A pathway – a route or means by which a receptor can be exposed to or affected by a contaminant.

B.4.6. Each of these elements can exist independently, but they create a risk where they are linked together, so that a particular contaminant affects a particular receptor through a particular pathway. This kind of linked combination of contaminant-pathway-receptor is described as a contaminant linkage.

Sensitivity Assessment Criteria

B.4.7. By considering the contaminant source, pathways and receptors, an assessment of the environmental risk is made with reference to the degree of sensitivity of the receptor to a contaminant.

B.4.8. The qualitative sensitivity assessment is conducted by determining the severity of the potential consequences, taking into account the probability of risk and by considering the sensitivity of the receptor based on the categories below. It follows CIRIA document C552 terminology and methodology as summarised:

Potential Consequences (Table B1)	X	Probability of Risk (Table B2)	=	Risk Classification (Table B3)

B.4.9. **Table B1** presents the consequences to the receptor of the contaminant linkage being realised. It has four categories, with the severe being the most serious and minor being the least serious consequences.

Table B.1 Consequence of Risk Being Realised

Classification	Category	Definition	Examples (Not Specific to this Scheme)
Severe Short-term (acute risks only)	Humans	Short-term (acute) risk to human health likely to result in “significant harm” as defined by the Environment Protection Act 1990, Part 2A.	High concentrations of cyanide on the surface of an informal recreation area.
	Controlled Waters	Short-term risk of pollution (note: Water Resources Act 1991 contains no scope for considering significance of pollution) of sensitive water resource.	Major spillage of contaminants from site into controlled water.

Classification	Category	Definition	Examples (Not Specific to this Scheme)
	Property	Catastrophic damage to buildings/property.	Explosion causing building collapse (can also equate to a short-term human health risk if buildings are occupied.
	Ecological System	A short-term risk to a particular ecosystem, or organism forming part of such ecosystem.	
Medium Chronic (long term) risks	Humans	Chronic damage to Human Health.	Concentrations of a contaminant from site exceed the generic, or site-specific assessment criteria
	Controlled Waters	Pollution of sensitive water resources (note: Water Resources Act contains no scope for considering significance of pollution).	Leaching of contaminants from a site into a major or minor aquifer.
	Ecological System	A significant change in a particular ecosystem.	Death of a species within a designated nature reserve.
Mild Chronic (long term) risks	Controlled Waters	Pollution of non-sensitive water resources.	Pollution of non-classified groundwater
	Property	Significant damage to buildings, structures and services. Damage to sensitive buildings/structures/services	Damage to building rendering it unsafe to occupy (e.g., foundation damage resulting in instability)
	Ecological System	Significant damage to crops. Damage to the environment.	
Minor	Financial/project	Harm, although not necessarily significant harm, which may result in a	

Classification	Category	Definition	Examples (Not Specific to this Scheme)
Chronic mild (long term) risks		financial loss, or expenditure to resolve.	
	Humans	Non-permanent health effects to human health (easily prevented by means such as personal protective clothing, etc).	The presence of contaminants at such concentrations that protective equipment is required during site works.
	Property	Easily repairable effects of damage to buildings, structures and services	The loss of plants in a landscaping scheme. Discolouration of concrete.

B.4.10. The likelihood of the pollution linkage being realised must take into account the presence of the source and position of the receptor as well as the pathway that connects them. **Table B2** defines the likelihood of the pollution linkage occurring.

Table B.2 Probability of Risk Being Realised

Classification	Definition
High Likelihood	There is a contaminant linkage and an event that either appears very likely in the short term and almost inevitable over the long term, or there is evidence at the receptor of harm or pollution.
Likely	There is a contaminant linkage and all the elements are present and in the right place, which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short term and likely over the long term.
Low Likelihood	There is a contaminant linkage and circumstances are possible under which an event could occur. However, it is by no means certain that even over a longer period such event would take place and is less likely in the shorter term.
Unlikely	There is a contaminant linkage, but circumstances are such that it is improbable that an event would occur even in the very long term.

B.4.11. The potential consequences and the probability of the risk occurring are combined to form the classification of sensitivity matrix, as presented in **Table B3** below. It provides a sensitivity category for potential receptors if a pollution linkage exists, allowing the level of sensitivity of a receptor in a particular circumstance can be determined. Definitions for each of the classifications are given below in **Table B4**.

Table B.3 Risk Classification Matrix

		Consequence			
		Severe	**Medium**	**Mild**	**Minor**
Probability	**High Likelihood**	Very High	High	Moderate	Moderate/Low
	Likely	High	Moderate	Moderate/Low	Low
	Low Likelihood	Moderate	Moderate/Low	Low	Very Low
	Unlikely	Moderate/Low	Low	Very Low	Very Low

Table B.4 Risk Classification Definitions

Classification	Definition
Very High	There is a high probability that severe harm could arise to a designated receptor from an identified hazard, OR there is evidence that severe harm to a designated receptor is currently happening. This risk, if realised, is likely to result in a substantial liability. Urgent investigation (if not undertaken already) and remediation are likely to be required.
High	Harm is likely to arise to a designated receptor from an identified hazard. Realisation of the risk is likely to present a substantial liability. Urgent investigation (if not undertaken already) is required and remedial works may be necessary in the short term and are likely over the longer term.
Moderate	It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild. Investigation (if not already undertaken) is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the longer term.
Moderate/Low	A notable balance between moderate and low categorisation. The moderate/low interface.
Low	It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised, would at worst normally be mild.
Very Low	There is a low possibility that harm could arise to a receptor. In the event of such harm being realised it is not likely to be severe.

Appendix C Site Walkover Photographs

Walkover Photographs
Site Visit undertaken on 19 March 2026

Photograph 1: Looking east from Marsh Road across the New Weston Marsh Substation A location.

Photograph 2: Looking south east from Marsh Road across the New Weston Marsh Substation A location.

Photograph 3: Looking east across the New Weston Marsh Substation A location from track off Marsh Road.

Photograph 4: Concrete boulders and metal rebar, off Marsh Road, located west of the New Weston Marsh Substation A location.

Photograph 5: Looking north east across the New Weston Marsh Substation A location.

Photograph 6: Looking north/north east off Marsh Road towards existing overhead lines and the New Weston Marsh Substation A location.

Photograph 7: Looking north east from Marsh Road towards the New Weston Marsh Substation A location.

Photograph 8: Looking south east from Marsh Road, along the existing overhead line.

Photograph 9: Looking south along Marsh Road towards existing overhead line and New Weston Marsh Substation A location.

Photograph 10: Looking south from Marsh Road towards the existing overhead line and New Weston Marsh Substation A location.

Photograph 11: Looking east along public footpath towards existing overhead line, directly north of the New Weston Marsh Substation A location.

Photograph 12: Looking south east from the public footpath directly over the new substation location.

Photograph 13: Looking south from the public footpath across grassed field parcel.

Photograph 14: Looking east along the public footpath, north of the new substation location.

Photograph 15: Looking south west from the public footpath towards the existing overhead line and new substation location.

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