APPENDIX 4 - BGS Records

Job Number: 4259	Site: Fishpond Lane, Holbeach.	Trial Pit No.: 9	Sheet 1 of 2
Remarks : Very strong ground water seepages encountered at 1.60m. Ground water level stood at 1.60m at end of excavation.	**Location:** See Plan	**Orientation:** E-W	**Dimensions:** 3636 2468
	Client: McKenna Developments Ltd.	**Face Logged:** N	
	Excavation Method: Hymac	**Logged by:** PRS	**Log Scale:** 2.5 m/page **Ground Level** m AOD

Date 1993	Depth of Casing (m)	Depth of Water (m)	Sample/Test No.	Sample/Test Type	Sample/Test Depth (m)	Change of Strata Legend	Depth below GL (m)	Re-duced Level OD (m)	Thick-ness of Stratum (m)	Description of Strata	Penetration Test Blows	NMC %	Atterberg Limits LL %	Atterberg Limits PL %	Atterberg Limits PI %	CBR %	Density Bulk kg/m³	Density Dry kg/m³	Shear Strength Cu kN/m²	Shear Strength Øu°	Shear Strength Type of Shear Test	Chemical SO_4 g/l	Chemical pH	Other Tests
21/04									0.40	Building material with traces of silty clay and rootlets.(FILL)														
							0.40		1.10	Soft dark grey with traces of brown sandy CLAY with traces of fragmented brick, gravel, and decaying wood.(FILL)														
			1	V	0.50														29		SV			
			1	B	0.50-1.00																			
			2	V	1.00														44		SV			
			2	D	1.00-1.50																			
			3	D	1.50-2.00		1.50		1.30	Soft becoming very soft black and grey sandy CLAY with traces of decaying roots, rootlets and reeds, and shells.(Al)														
		▼1.60		V	1.60														26		SV			
				V	2.00														14		SV			

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Scale As Shown	Disturbed Samples	Undisturbed Samples	Symbols	Type of Shear Test	Notes
03 93 02	W Water Sample D Small Bag B Large Bag T Tin J Jar	U100 105mm diameter U38 38mm diameter Groundwater: ▼ Struck ▽ Rose to	PT Penetration Tests M Macintosh Probe Blow Count P Probe CBR	V Shear vane Cu Undrained Cohesive Strength SB Shear Box Øu Internal Friction Angle TX Triaxial (undrained)	Geology: (Al) : Alluvium

LINCS LAB
Tel: (0522) 530355

GROUND LEVEL O.D. TF328117

BORING: FINISHED 27.3.79

HOLE SIZE 150 mm dia to 9.0 m

362 246

SAMPLE OR TEST DEPTH	TYPE	LEGEND	CHANGE OF STRATA DEPTH	O.D. LEVEL	DESCRIPTION
			0.6		MADE GROUND (Concrete followed by hardcore, ashes and soft silty clay).
1.0	B1				
1.0	W1				
1.65 - 1.95	S(3)				Very soft dark grey peaty clay with occasional gravel (probably MADE GROUND).
1.95 - 2.25	S(6)		1.8		
2.0 - 2.45	U(4)1				
2.5	D1				Soft grey silty peaty CLAY.
3.5 - 3.95	U(4)2				
4.0	D2				
5.0	D3				
5.0 - 5.45	U(4)3		5.0		
					Interbedded very soft grey silty CLAY and grey fine SAND.
7.0 - 7.45	U(4)4				
7.5	D4				
8.5 - 8.95	U(4)5				
8.5	B2		9.0		

REMARKS

1. Groundwater entered the borehole at a depth of 1.0 m. Standing water level on withdrawal of casing on completion of boring 0.6 m.
2. The upper 2.3 m was rebored in an attempt to get an undisturbed sample before 2 m depth.

This second sampling attempt failed also.

KEY: D — DISTURBED SAMPLE
B — BULK DISTURBED SAMPLE
W — WATER SAMPLE
U — UNDISTURBED SAMPLE
P ( ) STANDARD PENETRATION TEST
C ( ) CONE PENETRATION TEST
NO. OF BLOWS FOR 300 mm PENETRATION IN BRACKETS

SOILS ENGINEERING LIMITED PETERBOROUGH

British Geological Survey

APPENDIX 5 - Groundsure Report

Groundsure LOCATION INTELLIGENCE

Enviro+Geo Insight

536410 324713

Order Details

Date: 20/01/2022

Your ref: EMS_751369_976587

Our Ref: EMS-751369_976587

Client: emapsite

Site Details

Location: 536410 324713

Area: 0.82 ha

Authority: South Holland District Council



Summary of findings p. 2

OS MasterMap site plan p.12

Aerial image p. 8

groundsure.com/insightuserguide

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

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
13	1.1	Historical industrial land uses	2	5	19	22	-
15	1.2	Historical tanks	1	0	2	9	-
16	1.3	Historical energy features	0	0	5	3	-
17	1.4	Historical petrol stations	0	0	0	0	-
17	1.5	Historical garages	0	0	0	3	-
18	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
19	2.1	Historical industrial land uses	2	9	27	28	-
22	2.2	Historical tanks	4	0	3	14	-
23	2.3	Historical energy features	0	0	10	8	-
24	2.4	Historical petrol stations	0	0	0	0	-
24	2.5	Historical garages	0	0	0	4	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
25	3.1	Active or recent landfill	0	0	0	0	-
25	3.2	Historical landfill (BGS records)	0	0	0	0	-
26	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
26	3.4	Historical landfill (EA/NRW records)	1	0	2	0	-
27	3.5	Historical waste sites	0	0	0	3	-
27	3.6	Licensed waste sites	0	0	0	3	-
28	3.7	Waste exemptions	0	1	0	14	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
30	4.1	Recent industrial land uses	0	0	7	-	-
31	4.2	Current or recent petrol stations	0	0	0	0	-
31	4.3	Electricity cables	0	0	0	0	-
31	4.4	Gas pipelines	0	0	0	0	-
31	4.5	Sites determined as Contaminated Land	0	0	0	0	-

32	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
32	4.7	Regulated explosive sites	0	0	0	0	-
32	4.8	Hazardous substance storage/usage	0	0	0	0	-
32	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
32	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
33	**4.11**	**Licensed pollutant release (Part A(2)/B)**	0	0	0	1	-
33	4.12	Radioactive Substance Authorisations	0	0	0	0	-
33	**4.13**	**Licensed Discharges to controlled waters**	0	0	2	2	-
34	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
34	4.15	Pollutant release to public sewer	0	0	0	0	-
34	4.16	List 1 Dangerous Substances	0	0	0	0	-
35	**4.17**	**List 2 Dangerous Substances**	0	0	0	2	-
35	**4.18**	**Pollution Incidents (EA/NRW)**	0	0	0	1	-
35	4.19	Pollution inventory substances	0	0	0	0	-
36	4.20	Pollution inventory waste transfers	0	0	0	0	-
36	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
37	**5.1**	**Superficial aquifer**	Identified (within 500m)				
38	**5.2**	**Bedrock aquifer**	Identified (within 500m)				
39	**5.3**	**Groundwater vulnerability**	Identified (within 50m)				
40	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
40	5.5	Groundwater vulnerability- local information	None (within 0m)				
41	5.6	Groundwater abstractions	0	0	0	0	0
42	**5.7**	**Surface water abstractions**	0	0	0	0	1
42	5.8	Potable abstractions	0	0	0	0	0
42	5.9	Source Protection Zones	0	0	0	0	-
43	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
44	**6.1**	**Water Network (OS MasterMap)**	0	0	10	-	-

45	6.2	Surface water features	0	0	5	-	-
46	6.3	WFD Surface water body catchments	1	-	-	-	-
46	6.4	WFD Surface water bodies	0	0	0	-	-
46	6.5	WFD Groundwater bodies	0	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
47	7.1	Risk of flooding from rivers and the sea	Low (within 50m)				
48	7.2	Historical Flood Events	0	0	0	-	-
48	7.3	Flood Defences	0	0	0	-	-
48	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
48	7.5	Flood Storage Areas	0	0	0	-	-
49	7.6	Flood Zone 2	Identified (within 50m)				
50	7.7	Flood Zone 3	Identified (within 50m)				
Page	Section	Surface water flooding					
51	8.1	Surface water flooding	1 in 30 year, 0.1m - 0.3m (within 50m)				
Page	Section	Groundwater flooding					
53	9.1	Groundwater flooding	Negligible (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
54	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
54	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
54	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
54	10.4	Special Protection Areas (SPA)	0	0	0	0	0
55	10.5	National Nature Reserves (NNR)	0	0	0	0	0
55	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
55	10.7	Designated Ancient Woodland	0	0	0	0	0
55	10.8	Biosphere Reserves	0	0	0	0	0
56	10.9	Forest Parks	0	0	0	0	0
56	10.10	Marine Conservation Zones	0	0	0	0	0
56	10.11	Green Belt	0	0	0	0	0
56	10.12	Proposed Ramsar sites	0	0	0	0	0

56	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
57	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
57	10.15	Nitrate Sensitive Areas	0	0	0	0	0
57	**10.16**	**Nitrate Vulnerable Zones**	0	1	0	0	1
58	**10.17**	**SSSI Impact Risk Zones**	1	-	-	-	-
59	10.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
60	11.1	World Heritage Sites	0	0	0	-	-
61	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
61	11.3	National Parks	0	0	0	-	-
61	**11.4**	**Listed Buildings**	0	0	1	-	-
62	**11.5**	**Conservation Areas**	0	0	1	-	-
62	11.6	Scheduled Ancient Monuments	0	0	0	-	-
62	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
63	**12.1**	**Agricultural Land Classification**	Grade 1 (within 250m)				
64	12.2	Open Access Land	0	0	0	-	-
64	12.3	Tree Felling Licences	0	0	0	-	-
64	**12.4**	**Environmental Stewardship Schemes**	0	0	2	-	-
64	**12.5**	**Countryside Stewardship Schemes**	0	0	1	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
66	**13.1**	**Priority Habitat Inventory**	0	0	2	-	-
67	13.2	Habitat Networks	0	0	0	-	-
67	13.3	Open Mosaic Habitat	0	0	0	-	-
67	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
68	**14.1**	**10k Availability**	Identified (within 500m)				
69	14.2	Artificial and made ground (10k)	0	0	0	0	-
70	14.3	Superficial geology (10k)	0	0	0	0	-

70	14.4	Landslip (10k)	0	0	0	0	-
71	14.5	Bedrock geology (10k)	0	0	0	0	-
71	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
72	**15.1**	**50k Availability**	Identified (within 500m)				
73	15.2	Artificial and made ground (50k)	0	0	0	0	-
73	15.3	Artificial ground permeability (50k)	0	0	-	-	-
74	**15.4**	**Superficial geology (50k)**	1	0	0	0	-
75	**15.5**	**Superficial permeability (50k)**	Identified (within 50m)				
75	15.6	Landslip (50k)	0	0	0	0	-
75	15.7	Landslip permeability (50k)	None (within 50m)				
76	**15.8**	**Bedrock geology (50k)**	1	0	1	0	-
77	**15.9**	**Bedrock permeability (50k)**	Identified (within 50m)				
77	15.10	Bedrock faults and other linear features (50k)	0	0	0	0	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
78	**16.1**	**BGS Boreholes**	0	5	35	-	-
Page	Section	Natural ground subsidence					
81	**17.1**	**Shrink swell clays**	Low (within 50m)				
82	**17.2**	**Running sands**	Moderate (within 50m)				
83	**17.3**	**Compressible deposits**	Moderate (within 50m)				
84	**17.4**	**Collapsible deposits**	Negligible (within 50m)				
85	**17.5**	**Landslides**	Very low (within 50m)				
86	**17.6**	**Ground dissolution of soluble rocks**	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
88	18.1	Natural cavities	0	0	0	0	-
89	**18.2**	**BritPits**	0	0	2	1	-
89	**18.3**	**Surface ground workings**	5	9	31	-	-
91	18.4	Underground workings	0	0	0	0	0
91	18.5	Historical Mineral Planning Areas	0	0	0	0	-

92	18.6	Non-coal mining	0	0	0	0	0
92	18.7	Mining cavities	0	0	0	0	0
92	18.8	JPB mining areas	None (within 0m)				
92	18.9	Coal mining	None (within 0m)				
92	18.10	Brine areas	None (within 0m)				
93	18.11	Gypsum areas	None (within 0m)				
93	18.12	Tin mining	None (within 0m)				
93	18.13	Clay mining	None (within 0m)				

Page	Section	Radon	
94	**19.1**	**Radon**	Less than 1% (within 0m)

Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
95	**20.1**	**BGS Estimated Background Soil Chemistry**	1	0	-	-	-
95	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
95	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-

Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
96	21.1	Underground railways (London)	0	0	0	-	-
96	21.2	Underground railways (Non-London)	0	0	0	-	-
97	21.3	Railway tunnels	0	0	0	-	-
97	21.4	Historical railway and tunnel features	0	0	0	-	-
97	21.5	Royal Mail tunnels	0	0	0	-	-
97	**21.6**	**Historical railways**	0	0	2	-	-
98	21.7	Railways	0	0	0	-	-
98	21.8	Crossrail 1	0	0	0	0	-
98	21.9	Crossrail 2	0	0	0	0	-
98	21.10	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 06/05/2018

Site Area: 0.82ha

Recent site history - 2015 aerial photograph



Aerial photography supplied by Getmapping PLC. © Copyright Getmapping PLC 2022. All Rights Reserved.

Capture Date: 06/04/2015

Site Area: 0.82ha

Recent site history - 2007 aerial photograph



Capture Date: 10/08/2007

Site Area: 0.82ha

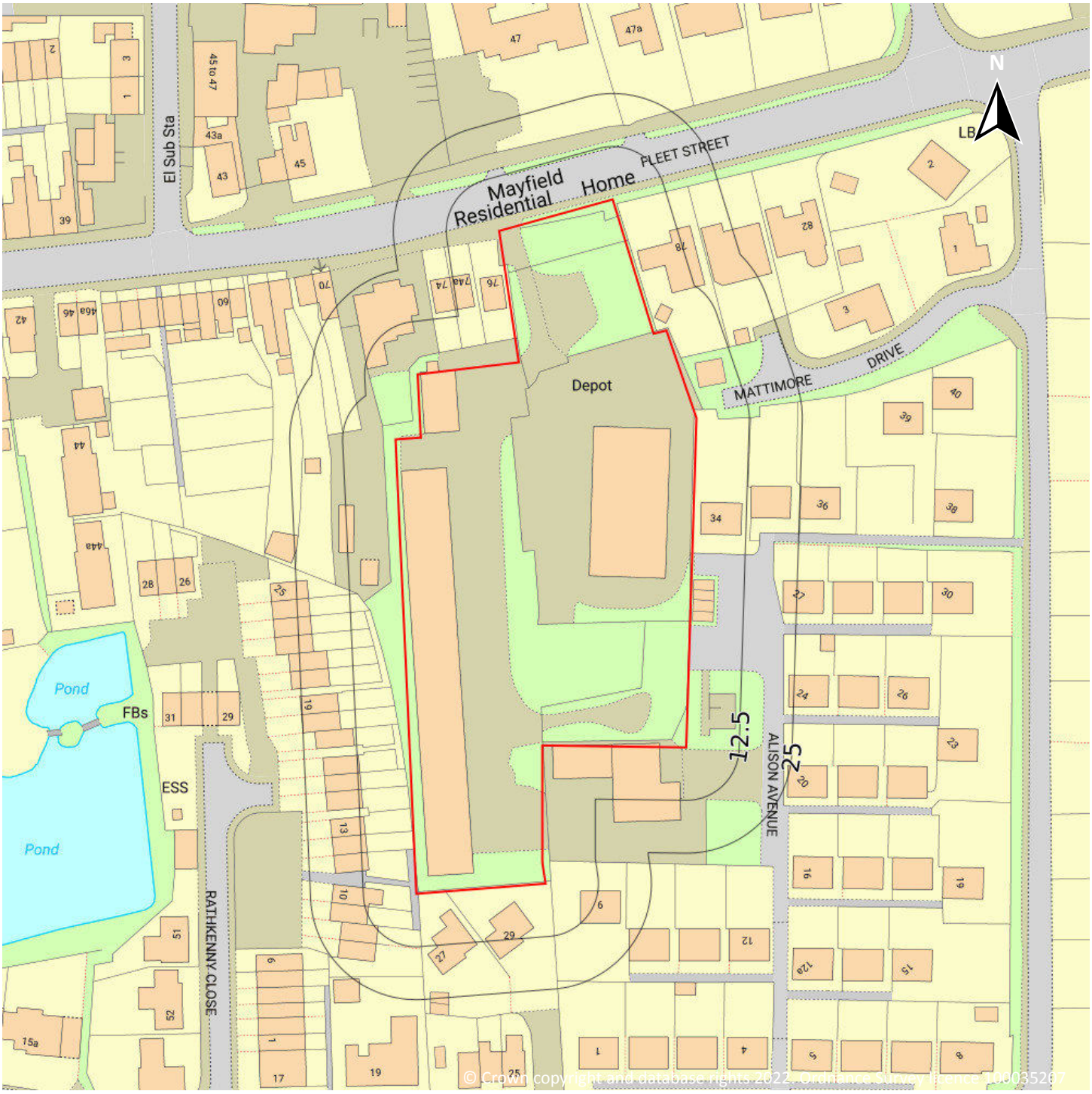
Recent site history - 1999 aerial photograph



Capture Date: 18/06/1999

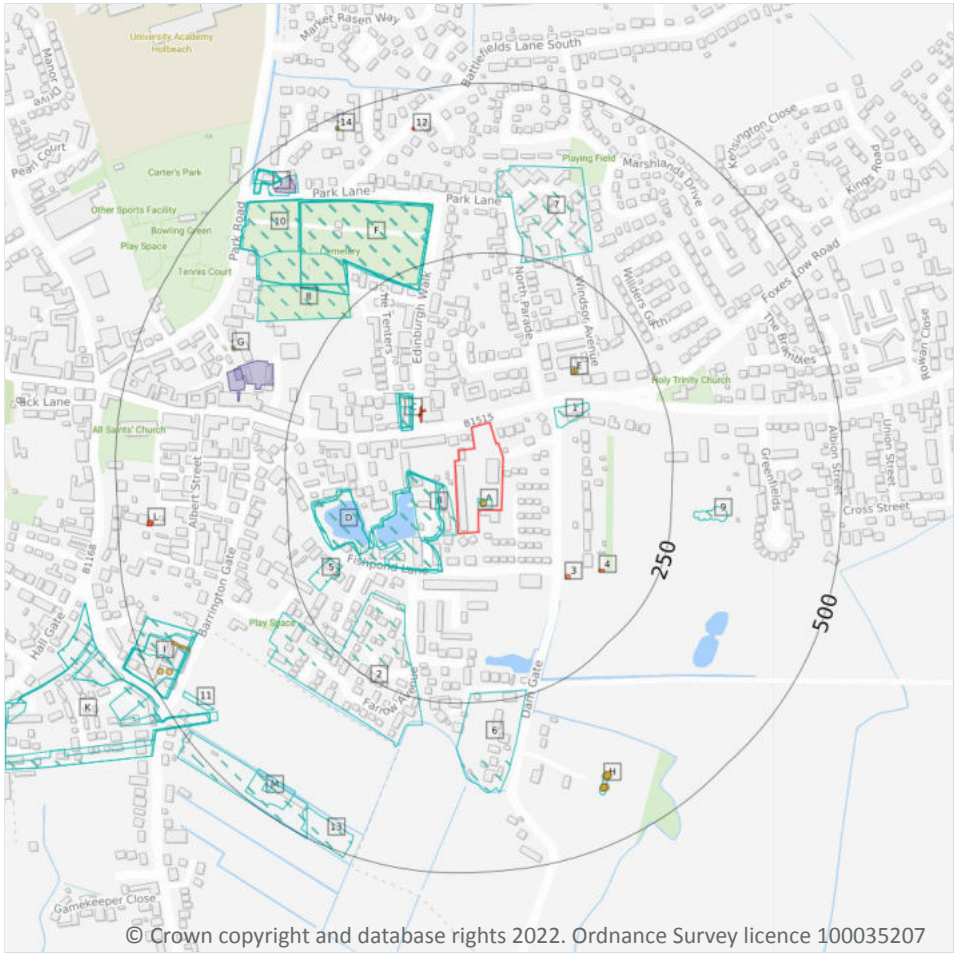
Site Area: 0.82ha

OS MasterMap site plan



Site Area: 0.82ha

1 Past land use



Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

Historical garages

1.1 Historical industrial land uses

Records within 500m	48

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 13**

ID	Location	Land use	Dates present	Group ID
A	**On site**	**Unspecified Tank**	**1970**	**2004298**

ID	Location	Land use	Dates present	Group ID
A	**On site**	**Unspecified Works**	**1970**	**2005299**
B	3m W	Unspecified Depot	1992	2005943
B	18m W	Old Brick Pits	1950 - 1958	2020686
B	18m W	Old Brick Pits	1887 - 1903	2034196
B	20m W	Old Brick Pits	1903 - 1938	2016643
B	25m W	Old Brick Pits	1958	2035807
C	74m NW	Police Station	1929	2028203
C	75m NW	Police Station	1938	2022220
C	75m NW	Police Station	1887	2037292
C	79m NW	Police Station	1970 - 1992	2028209
C	80m NW	Police Station	1958	2037139
1	90m E	Malthouse	1903	2028808
D	131m W	Old Brick Pits	1903	2021154
D	131m W	Old Brick Pits	1929	2024221
2	132m SW	Nurseries	1970	2010408
5	177m W	Telephone Exchange	1970 - 1992	2021332
F	215m N	Cemetery	1887 - 1903	2014002
F	217m N	Cemetery	1903	2013038
F	217m N	Cemetery	1929 - 1938	2016040
F	217m N	Cemetery	1950	2027280
F	225m N	Cemetery	1955 - 1976	2024791
F	225m N	Cemetery	1992	2027494
6	237m S	Nursery	1970	2008139
7	239m N	Unspecified Depot	1976	2005942
8	241m NW	Cemetery	1970 - 1992	2022111
9	283m E	Unspecified Tanks	1950 - 1958	2028103
10	363m NW	Cemetery	1887	2034847
H	402m SE	Unspecified Tanks	1992	2009070

ID	Location	Land use	Dates present	Group ID
I	411m W	Corn Mills	1887	2007082
I	412m W	Flour Mill	1950	2007092
I	422m W	Flour Mills	1929 - 1938	2016517
I	424m W	Unspecified Mills	1958	2008943
J	430m NW	Unspecified Old Workhouse	1887	2024224
K	442m SW	Railway Sidings	1938	2018889
11	443m SW	Police and Ambulance Station	1938	2005501
M	449m SW	Unspecified Depot	1970	2005944
K	452m SW	Railway Sidings	1958	2020765
K	452m SW	Railway Sidings	1950	2019212
M	455m SW	Brick Works	1887	2006816
K	457m SW	Railway Sidings	1903	2019343
I	459m SW	Disused Corn Mill	1903	2021037
J	459m NW	Unspecified Old Workhouse	1938	2032794
13	459m SW	Sewage Settling Beds	1970	2003482
J	460m NW	Unspecified Old Workhouse	1903	2021476
J	460m NW	Unspecified Old Workhouse	1950	2027062
J	461m NW	Old Workhouses	1903 - 1929	2033392
M	464m SW	Unspecified Kiln	1887	2005044

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	**12**

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

Features are displayed on the Past land use map on **page 13**

ID	Location	Land use	Dates present	Group ID
A	**On site**	**Unspecified Tank**	**1968 - 1986**	**340382**
E	140m NE	Unspecified Tank	1991	341540
E	144m NE	Unspecified Tank	1995 - 1997	341172
G	361m NW	Unspecified Tank	1931	337854
H	399m SE	Unspecified Tank	1991	340546
H	400m SE	Unspecified Tank	1995 - 1997	341433
H	414m SE	Unspecified Tank	1995 - 1997	341003
H	414m SE	Unspecified Tank	1991	341989
I	430m SW	Tanks	1981 - 1986	342163
I	467m SW	Unspecified Tank	1888	337850
I	479m SW	Unspecified Tank	1904 - 1931	341784
14	480m NW	Unspecified Tank	1968 - 1982	340984

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	**8**

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

Features are displayed on the Past land use map on **page 13**

ID	Location	Land use	Dates present	Group ID
C	69m NW	Electricity Substation	1968	221579
C	71m W	Electricity Substation	1984	221025
C	75m NW	Electricity Substation	1983 - 1986	221524
3	134m SE	Electricity Substation	1983 - 1991	223470
4	168m SE	Electricity Substation	1995 - 1997	223880
12	445m N	Electricity Substation	1999	221030

ID	Location	Land use	Dates present	Group ID
L	447m W	Electricity Substation	1986 - 1996	223567
L	450m W	Electricity Substation	1968 - 1981	222976

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	**3**

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

Features are displayed on the Past land use map on **page 13**

ID	Location	Land use	Dates present	Group ID
G	289m W	Garage	1968	68115
G	328m W	Garage	1983 - 1984	68997
J	433m NW	Garage	1968	67891

This data is sourced from Ordnance Survey / Groundsure.

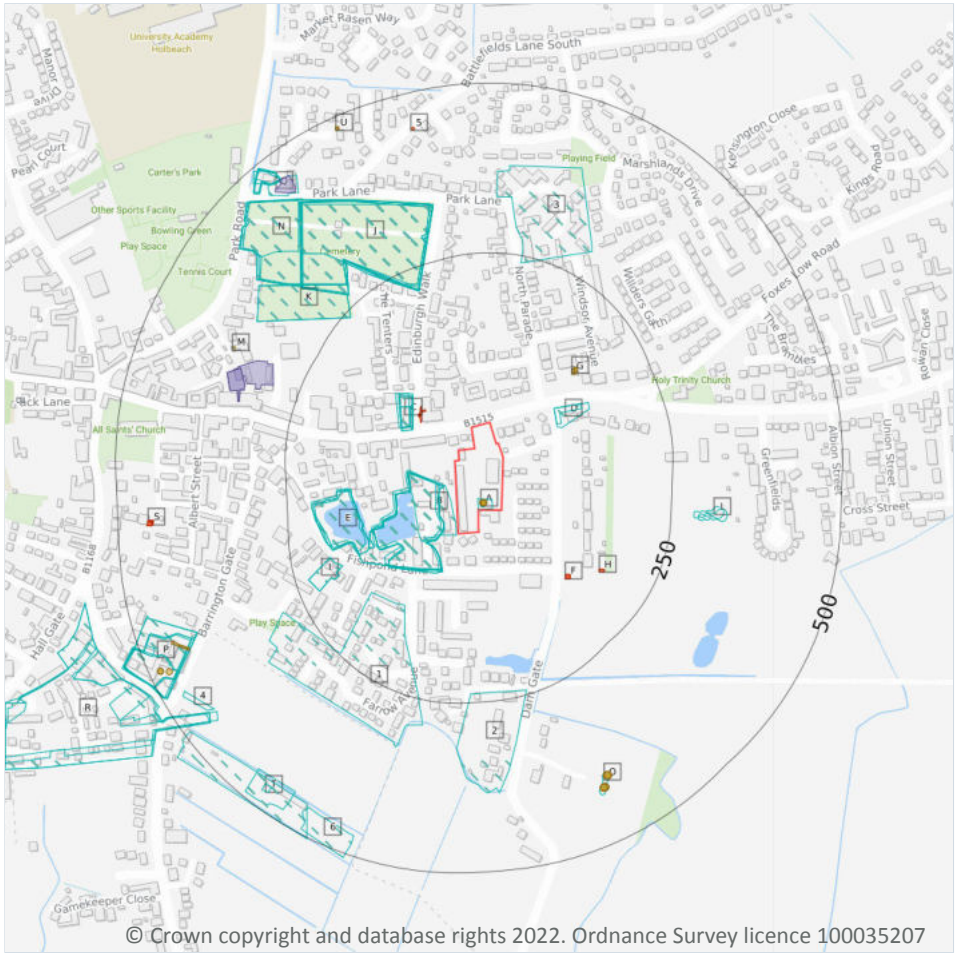
1.6 Historical military land

Records within 500m	0

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

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

2 Past land use - un-grouped



Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

Historical garages

2.1 Historical industrial land uses

Records within 500m	66

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 19**

ID	Location	Land Use	Date	Group ID
A	**On site**	**Unspecified Tank**	**1970**	**2004298**
A	**On site**	**Unspecified Works**	**1970**	**2005299**
B	3m W	Unspecified Depot	1992	2005943

ID	Location	Land Use	Date	Group ID
B	18m W	Old Brick Pits	1950	2020686
B	18m W	Old Brick Pits	1903	2034196
B	18m W	Old Brick Pits	1887	2034196
B	20m W	Old Brick Pits	1929	2016643
B	20m W	Old Brick Pits	1903	2016643
B	21m W	Old Brick Pits	1938	2016643
B	21m W	Old Brick Pits	1938	2016643
B	25m W	Old Brick Pits	1958	2035807
C	74m NW	Police Station	1929	2028203
C	75m NW	Police Station	1938	2022220
C	75m NW	Police Station	1887	2037292
C	79m NW	Police Station	1992	2028209
C	79m NW	Police Station	1970	2028209
C	80m NW	Police Station	1958	2037139
D	90m E	Malthouse	1903	2028808
D	91m E	Malthouse	1903	2028808
E	131m W	Old Brick Pits	1929	2024221
E	131m W	Old Brick Pits	1903	2021154
1	132m SW	Nurseries	1970	2010408
E	137m W	Old Brick Pits	1958	2020686
I	177m W	Telephone Exchange	1992	2021332
I	177m W	Telephone Exchange	1970	2021332
J	215m N	Cemetery	1903	2014002
J	215m N	Cemetery	1887	2014002
J	217m N	Cemetery	1929	2016040
J	217m N	Cemetery	1903	2013038
J	217m N	Cemetery	1950	2027280
J	220m N	Cemetery	1938	2016040

ID	Location	Land Use	Date	Group ID
J	225m N	Cemetery	1992	2027494
J	225m N	Cemetery	1955	2024791
J	225m N	Cemetery	1976	2024791
2	237m S	Nursery	1970	2008139
3	239m N	Unspecified Depot	1976	2005942
K	241m NW	Cemetery	1992	2022111
K	241m NW	Cemetery	1970	2022111
L	283m E	Unspecified Tanks	1958	2028103
L	290m E	Unspecified Tanks	1950	2028103
N	323m NW	Cemetery	1929	2016040
N	324m NW	Cemetery	1938	2016040
N	363m NW	Cemetery	1887	2034847
O	402m SE	Unspecified Tanks	1992	2009070
P	411m W	Corn Mills	1887	2007082
P	412m W	Flour Mill	1950	2007092
P	422m W	Flour Mills	1938	2016517
P	422m W	Flour Mills	1929	2016517
P	424m W	Unspecified Mills	1958	2008943
Q	430m NW	Unspecified Old Workhouse	1887	2024224
R	442m SW	Railway Sidings	1938	2018889
4	443m SW	Police and Ambulance Station	1938	2005501
T	449m SW	Unspecified Depot	1970	2005944
R	452m SW	Railway Sidings	1958	2020765
R	452m SW	Railway Sidings	1950	2019212
T	455m SW	Brick Works	1887	2006816
R	457m SW	Railway Sidings	1903	2019343
P	459m SW	Disused Corn Mill	1903	2021037
Q	459m NW	Unspecified Old Workhouse	1938	2032794

ID	Location	Land Use	Date	Group ID
6	459m SW	Sewage Settling Beds	1970	2003482
Q	460m NW	Unspecified Old Workhouse	1950	2027062
Q	460m NW	Unspecified Old Workhouse	1903	2021476
P	460m SW	Disused Corn Mill	1903	2021037
Q	461m NW	Old Workhouses	1903	2033392
Q	461m NW	Old Workhouses	1929	2033392
T	464m SW	Unspecified Kiln	1887	2005044

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	**21**

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 19**

ID	Location	Land Use	Date	Group ID
A	**On site**	**Unspecified Tank**	**1968**	**340382**
A	**On site**	**Unspecified Tank**	**1983**	**340382**
A	**On site**	**Unspecified Tank**	**1984**	**340382**
A	**On site**	**Unspecified Tank**	**1986**	**340382**
G	140m NE	Unspecified Tank	1991	341540
G	144m NE	Unspecified Tank	1997	341172
G	144m NE	Unspecified Tank	1995	341172
M	361m NW	Unspecified Tank	1931	337854
O	399m SE	Unspecified Tank	1991	340546
O	400m SE	Unspecified Tank	1997	341433
O	400m SE	Unspecified Tank	1995	341433
O	414m SE	Unspecified Tank	1997	341003
O	414m SE	Unspecified Tank	1995	341003

ID	Location	Land Use	Date	Group ID
O	414m SE	Unspecified Tank	1991	341989
P	430m SW	Tanks	1981	342163
P	430m SW	Tanks	1986	342163
P	467m SW	Unspecified Tank	1888	337850
P	479m SW	Unspecified Tank	1904	341784
P	479m SW	Unspecified Tank	1931	341784
U	480m NW	Unspecified Tank	1968	340984
U	480m NW	Unspecified Tank	1982	340984

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	**18**

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

Features are displayed on the Past land use - un-grouped map on **page 19**

ID	Location	Land Use	Date	Group ID
C	69m NW	Electricity Substation	1968	221579
C	71m W	Electricity Substation	1984	221025
C	75m NW	Electricity Substation	1983	221524
C	75m NW	Electricity Substation	1986	221524
F	134m SE	Electricity Substation	1983	223470
F	134m SE	Electricity Substation	1984	223470
F	134m SE	Electricity Substation	1986	223470
F	134m SE	Electricity Substation	1991	223470
H	168m SE	Electricity Substation	1997	223880
H	168m SE	Electricity Substation	1995	223880
5	445m N	Electricity Substation	1999	221030
S	447m W	Electricity Substation	1996	223567

ID	Location	Land Use	Date	Group ID
S	447m W	Electricity Substation	1996	223567
S	447m W	Electricity Substation	1995	223567
S	449m W	Electricity Substation	1991	223567
S	449m W	Electricity Substation	1986	223567
S	450m W	Electricity Substation	1968	222976
S	450m W	Electricity Substation	1981	222976

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	**4**

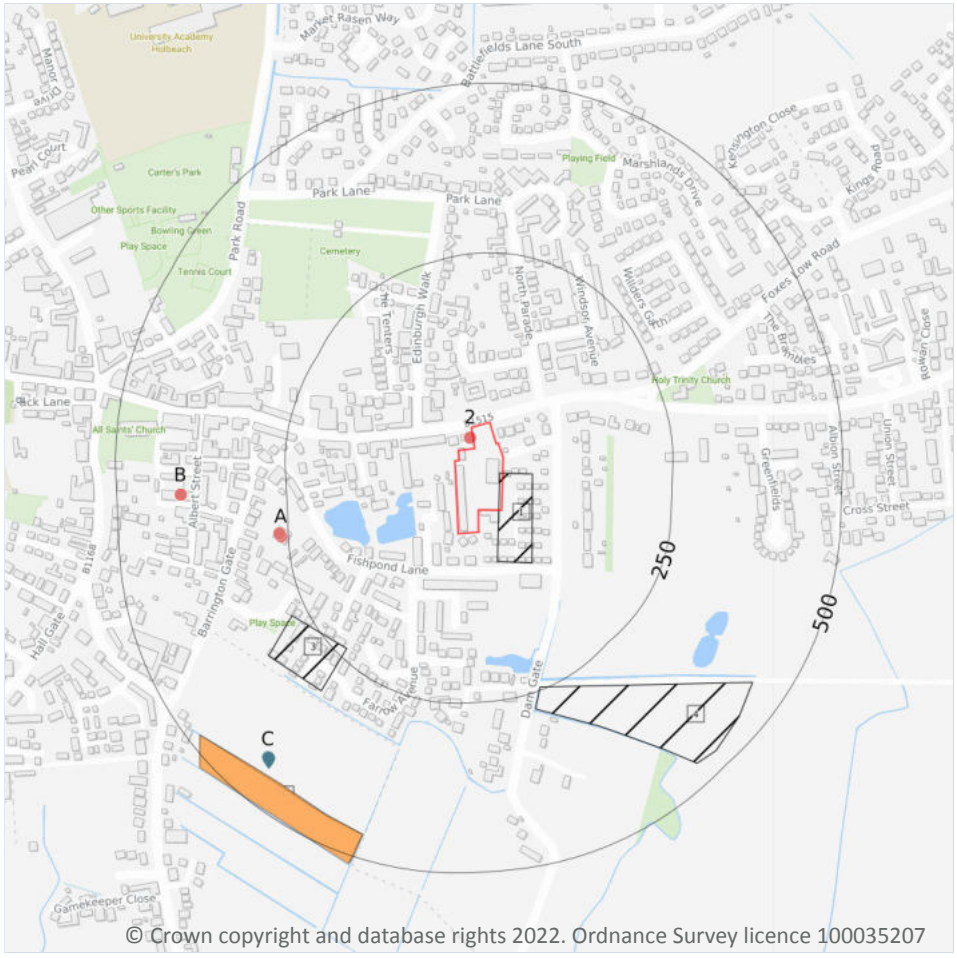
Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 19**

ID	Location	Land Use	Date	Group ID
M	289m W	Garage	1968	68115
M	328m W	Garage	1983	68997
M	328m W	Garage	1984	68997
Q	433m NW	Garage	1968	67891

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



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	3

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

Features are displayed on the Waste and landfill map on **page 25**

ID	Location	Details		
1	**On site**	**Site Address: Allison Avenue, Holbeach, Lincolnshire** **Licence Holder Address: -**	**Waste Licence: -** **Site Reference: SH-54-01/89, RD7-54-01/89, RD7-55-01/89, 2500/5263** **Waste Type: Household** **Environmental Permitting Regulations (Waste) Reference: -** **Licence Issue: -** **Licence Surrender: -**	**Operator: -** **Licence Holder: -** **First Recorded -** **Last Recorded: -**
3	235m SW	Site Address: Barrington Gate, Holbeach, Lincolnshire Licence Holder Address: -	Waste Licence: - Site Reference: RD7-52-01/89, SH-52-01/89, 0500/5053 Waste Type: Household Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded - Last Recorded: -
4	245m S	Site Address: Holbeach Fen, Dam Gate, Holbeach, Lincolnshire Licence Holder Address: -	Waste Licence: - Site Reference: RD7-53-01/89, SH-53-01/89, 2500/5036 Waste Type: Household Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded - Last Recorded: -

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

3.5 Historical waste sites

Records within 500m	3

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

Features are displayed on the Waste and landfill map on **page 25**

ID	Location	Address	Further Details	Date
D	451m SW	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1997
D	451m SW	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1995
D	454m SW	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1991

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

3.6 Licensed waste sites

Records within 500m	3

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

Features are displayed on the Waste and landfill map on **page 25**

ID	Location	Details		
C	435m SW	Site Name: Eric Ladbrooke Ltd Site Address: Ladbrook Mr E, 5a, Fen Road, Holbeach, Lincolnshire, PE12 8QA Correspondence Address: -	Type of Site: Metal Recycling Site (mixed MRS's) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: LAD001 EPR reference: EA/EPR/TP3498NJ/A001 Operator: Ladbrooke Mr E Waste Management licence No: 71024 Annual Tonnage: 30000	Issue Date: 13/05/1992 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued

ID	Location	Details		
C	435m SW	Site Name: Eric Ladbrooke Ltd Site Address: Ladbrook Mr E, 5a, Fen Road, Holbeach, Lincolnshire, PE12 8QA Correspondence Address: Ladbrook Mr E, 5a, Fen Road, Holbeach, Lincolnshire, PE12 8QA	Type of Site: Metal Recycling Site (mixed MRS's) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: LAD001 EPR reference: - Operator: Ladbrook Mr E Waste Management licence No: 71024 Annual Tonnage: 30000	Issue Date: 13/05/1992 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
C	436m SW	Site Name: Nationwide Metal Recycling Ltd Site Address: Ladbrook Mr E., 5a, Fen Road, Holbeach, Lincolnshire, PE12 8QA Correspondence Address: -	Type of Site: Metal Recycling Site (mixed MRS's) Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: NMR003 EPR reference: EA/EPR/LB3135RD/V002 Operator: Nationwide Metal Recycling Ltd Waste Management licence No: 71024 Annual Tonnage: 30000	Issue Date: 13/05/1992 Effective Date: 26/10/2012 Modified: 05/11/2012 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified

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

3.7 Waste exemptions

Records within 500m	**15**

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.

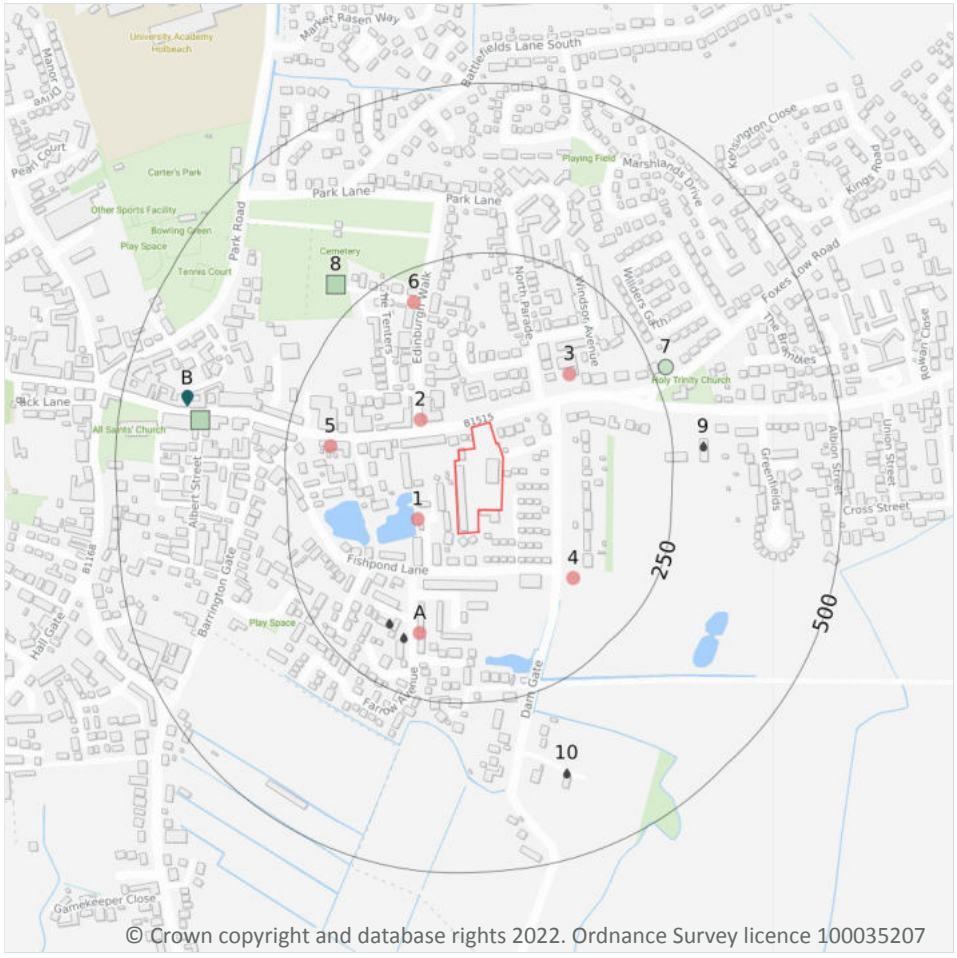
Features are displayed on the Waste and landfill map on **page 25**

ID	Location	Site	Reference	Category	Sub-Category	Description
2	5m W	76, FLEET STREET, HOLBEACH, SPALDING, PE12 7AG	WEX256398	Storing waste exemption	Not on a farm	Storage of waste in a secure place
A	262m W	FISHPOND LANE, HOLBEACH, SPALDING, PE12 7DE	WEX135159	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal

ID	Location	Site	Reference	Category	Sub-Category	Description
A	264m W	Littlebury Medical Centre Fishpond Lane Spalding Lincolnshire PE12 7DE	EPR/KF0103HG/A001	Treating waste exemption	Non-Agricultural Waste Only	Sorting and de-naturing of controlled drugs for disposal
B	407m W	Faulkner House Farm West Drove North WISBECH Cambridgeshire PE14 7DP	EPR/HE5258YW/A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of waste from dredging of inland waters
B	407m W	Faulkner House Farm West Drove North WISBECH Cambridgeshire PE14 7DP	EPR/HE5258YW/A001	Disposing of waste exemption	Agricultural Waste Only	Disposal by incineration
B	407m W	Faulkner House Farm West Drove North WISBECH Cambridgeshire PE14 7DP	EPR/HE5258YW/A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
B	407m W	Faulkner House Farm West Drove North WISBECH Cambridgeshire PE14 7DP	EPR/HE5258YW/A001	Storing waste exemption	Agricultural Waste Only	Storage of waste in secure containers
B	407m W	Faulkner House Farm West Drove North WISBECH Cambridgeshire PE14 7DP	EPR/HE5258YW/A001	Storing waste exemption	Agricultural Waste Only	Storage of waste in a secure place
B	407m W	Faulkner House Farm West Drove North WISBECH Cambridgeshire PE14 7DP	EPR/HE5258YW/A001	Using waste exemption	Agricultural Waste Only	Use of waste in construction
B	407m W	Faulkner House Farm West Drove North WISBECH Cambridgeshire PE14 7DP	EPR/HE5258YW/A001	Using waste exemption	Agricultural Waste Only	Spreading waste on agricultural land to confer benefit
B	407m W	Faulkner House Farm West Drove North WISBECH Cambridgeshire PE14 7DP	EPR/HE5258YW/A001	Using waste exemption	Agricultural Waste Only	Use of mulch
B	407m W	Faulkner House Farm West Drove North WISBECH Cambridgeshire PE14 7DP	EPR/HE5258YW/A001	Using waste exemption	Agricultural Waste Only	Spreading of plant matter to confer benefit
B	407m W	Faulkner House Farm West Drove North WISBECH Cambridgeshire PE14 7DP	EPR/HE5258YW/A001	Using waste exemption	Agricultural Waste Only	Incorporation of ash into soil
B	407m W	Faulkner House Farm West Drove North WISBECH Cambridgeshire PE14 7DP	EPR/HE5258YW/A001	Using waste exemption	Agricultural Waste Only	Burning of waste as a fuel in a small appliance
B	407m W	Faulkner House Farm West Drove North WISBECH Cambridgeshire PE14 7DP	EPR/HE5258YW/A001	Using waste exemption	Agricultural Waste Only	Use of waste for a specified purpose

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

4 Current industrial land use



Site Outline

Search buffers in metres (m)

Recent industrial land uses

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

Licensed Discharges to controlled waters

List 2 Dangerous Substances

Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m	7

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 30**

ID	Location	Company	Address	Activity	Category
1	59m W	Electricity Sub Station	Lincolnshire, PE12	Electrical Features	Infrastructure and Facilities
2	72m NW	Electricity Sub Station	Lincolnshire, PE12	Electrical Features	Infrastructure and Facilities
3	137m NE	Tank	Lincolnshire, PE12	Tanks (Generic)	Industrial Features

ID	Location	Company	Address	Activity	Category
4	146m SE	Electricity Sub Station	Lincolnshire, PE12	Electrical Features	Infrastructure and Facilities
A	157m S	Electricity Sub Station	Lincolnshire, PE12	Electrical Features	Infrastructure and Facilities
5	185m W	Mb Private Hire	20, Fleet Street, Holbeach, Spalding, Lincolnshire, PE12 7AF	Vehicle Hire and Rental	Hire Services
6	203m NW	Baypress	27, Edinburgh Walk, Holbeach, Spalding, Lincolnshire, PE12 7AP	Published Goods	Industrial Products

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	0

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0

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

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m	0

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

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m	0

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m	0

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

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m	0

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

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m	0

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

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

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

Records within 500m	1

Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on **page 30**

ID	Location	Address	Details	
B	405m W	Coles Dry Cleaners, 33 High Street, Holbeach, Spalding, Lincolnshire, PE12 7DY	Process: Dry Cleaning Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m	0

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m	4

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 30**

ID	Location	Address	Details	
A	166m SW	PLOT 2 SEMI FARROW AVENUE, HOLBEACH, SPALDING	Effluent Type: UNSPECIFIED Permit Number: PR5LF5554 Permit Version: 1 Receiving Water: Land	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 29/07/1988 Effective Date: 29/07/1988 Revocation Date: 01/10/1996
A	172m SW	PLOT 1 SEMI FARROW AVENUE, HOLBEACH, SPALDING	Effluent Type: UNSPECIFIED Permit Number: PR5LF5553 Permit Version: 1 Receiving Water: Land	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 29/07/1988 Effective Date: 29/07/1988 Revocation Date: 01/10/1996

ID	Location	Address	Details	
9	294m E	HOLBEACH MANOR, FLEET ROAD, HOLBEACH, SPALDING, LINCS, PE12 7AX	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: PRNLF00368 Permit Version: 1 Receiving Water: -	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 01/01/1980 Effective Date: 01/01/1980 Revocation Date: 01/10/1996
10	377m S	DAMGATE ROAD, HOLBEACH, LINCOLNSHIRE	Effluent Type: UNSPECIFIED Permit Number: PRNLF02942 Permit Version: 1 Receiving Water: land	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 07/06/1990 Effective Date: 07/06/1990 Revocation Date: 01/10/1996

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m	0

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

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

4.15 Pollutant release to public sewer

Records within 500m	0

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m	0

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

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

4.17 List 2 Dangerous Substances

Records within 500m	2

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.

Features are displayed on the Current industrial land use map on **page 30**

ID	Location	Name	Status	Receiving Water	Authorised Substances
8	291m NW	Kff Potatoes	Not Active	Na	pH
B	381m W	Holbeach Launderette	Not Active	Na	pH

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m	1

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

Features are displayed on the Current industrial land use map on **page 30**

ID	Location	Details	
7	270m NE	Incident Date: 09/07/2019 Incident Identification: 1717074 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

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

4.19 Pollution inventory substances

Records within 500m	0

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

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

4.20 Pollution inventory waste transfers

Records within 500m	0

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

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

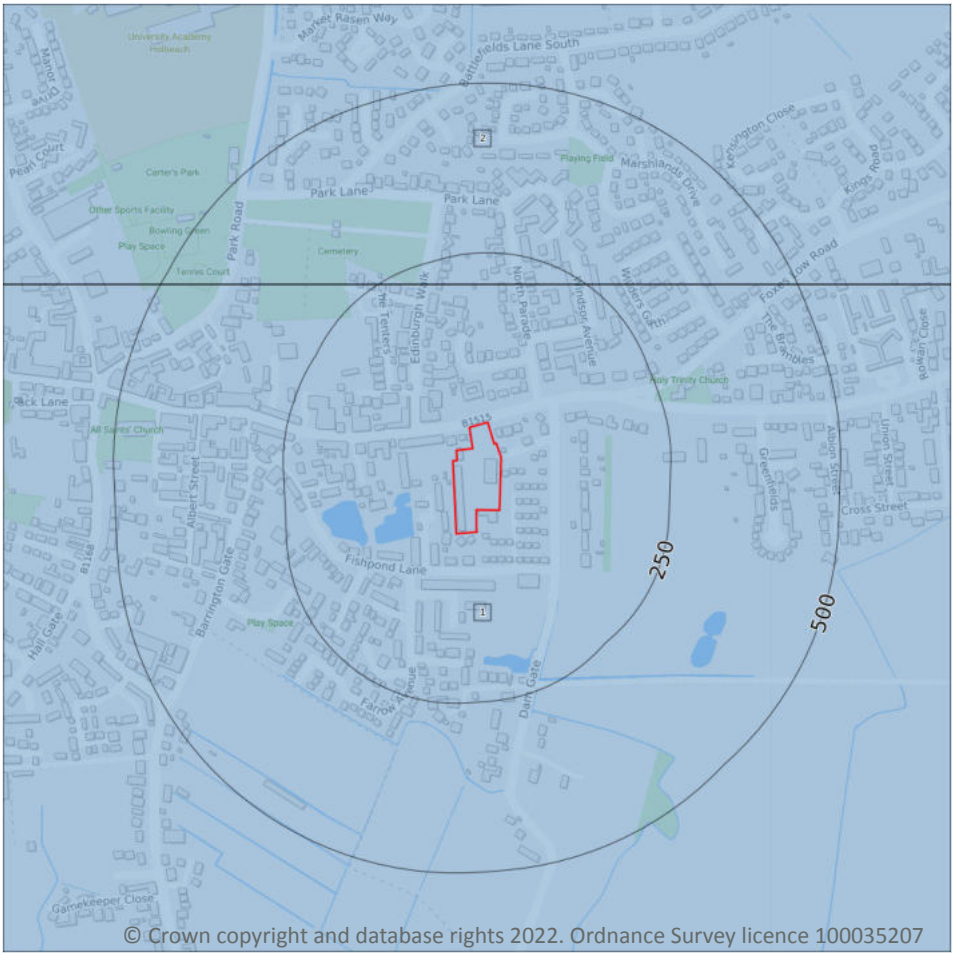
4.21 Pollution inventory radioactive waste

Records within 500m	0

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

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

5 Hydrogeology - Superficial aquifer



5.1 Superficial aquifer

Records within 500m	2

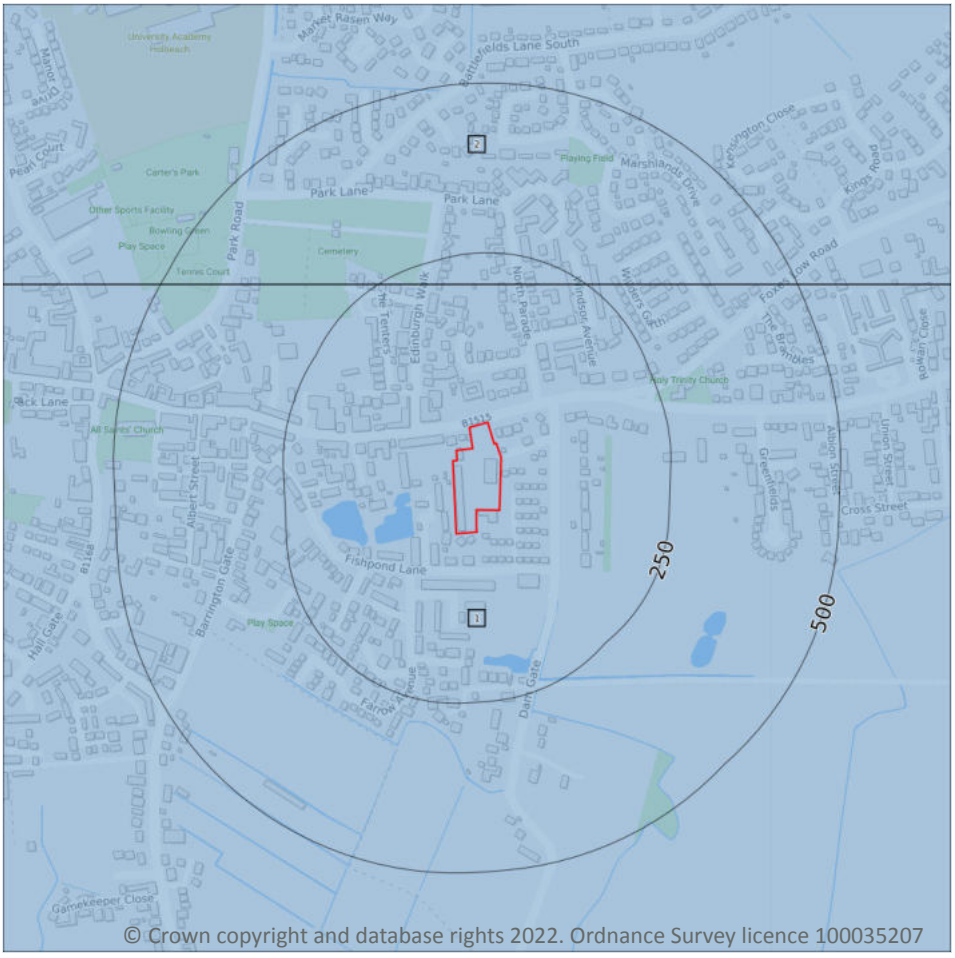
Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 37**

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	203m N	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

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

Bedrock aquifer



Site Outline

Search buffers in metres (m)

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

5.2 Bedrock aquifer

Records within 500m	2

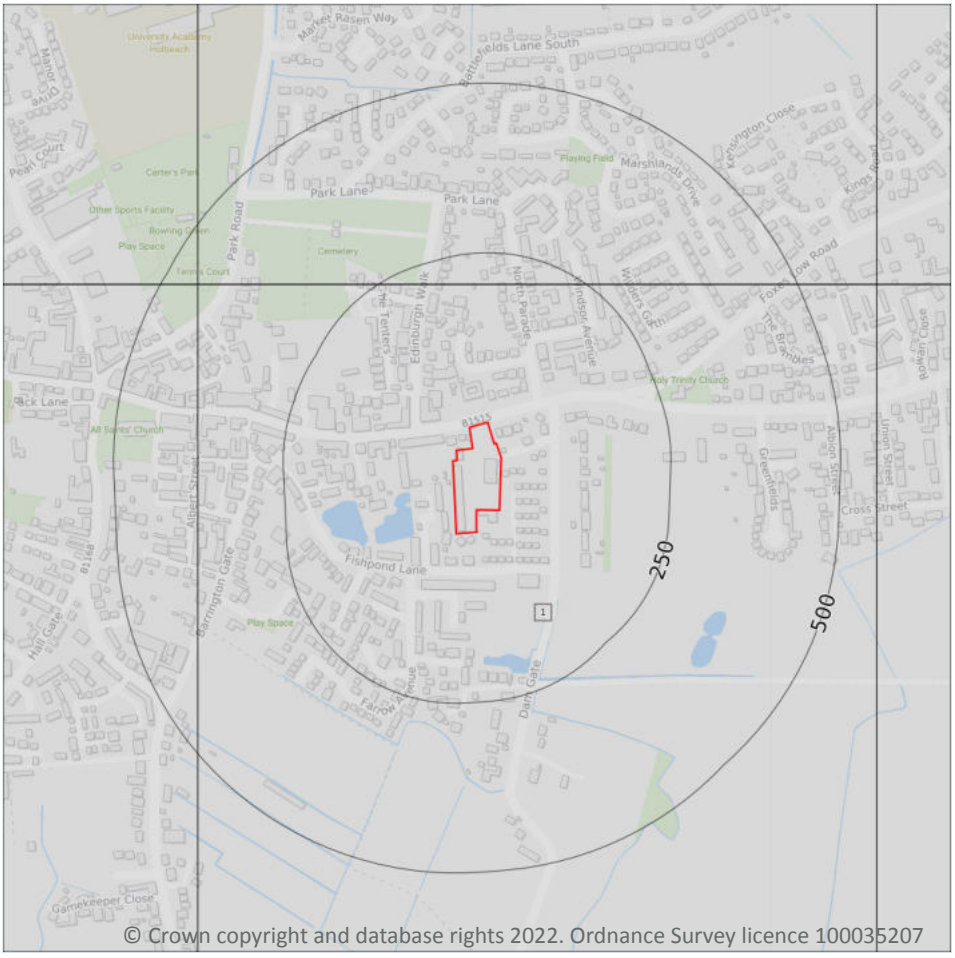
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 38**

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	203m N	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

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

Groundwater vulnerability



Site Outline

Search buffers in metres (m)

Superficial vulnerability

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

Bedrock vulnerability

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

Other information

- Unproductive aquifer
- Soluble rock risk
- Local information

5.3 Groundwater vulnerability

Records within 50m	1

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid. Groundwater vulnerability is described as High, Medium or Low as follows:

- High - Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits.
- Medium - Intermediate between high and low vulnerability.
- Low - Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

Features are displayed on the Groundwater vulnerability map on **page 39**

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**

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site	0

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

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

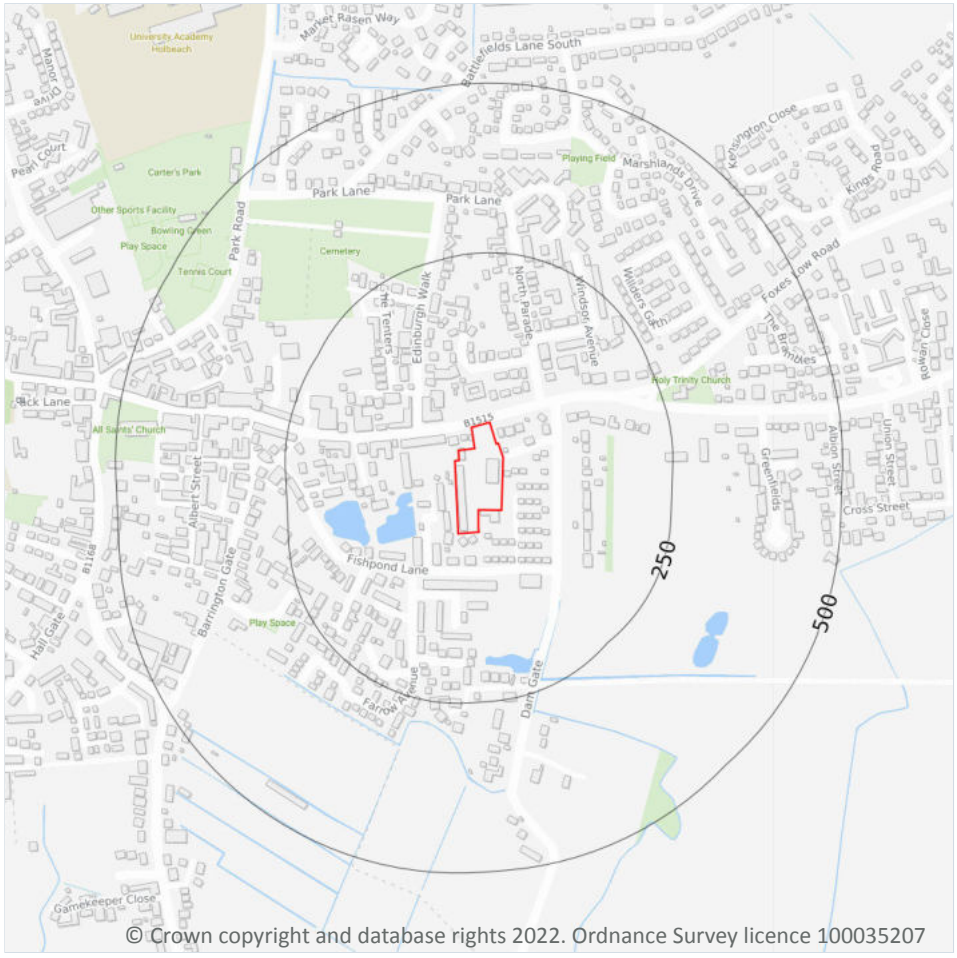
5.5 Groundwater vulnerability- local information

Records on site	0

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

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

Abstractions and Source Protection Zones



5.6 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.

5.7 Surface water abstractions

Records within 2000m	1

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 41**

ID	Location	Details	
-	798m W	Status: Historical Licence No: AN/033/0053/028 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: DRAIN IN WHITTLESEY & DISTRICT IDB Data Type: Line Name: P & L Hayes (Farms) Limited Easting: 535535 Northing: 300683	Annual Volume (m^3): 10480 Max Daily Volume (m^3): 1090.8 Original Application No: - Original Start Date: 20/05/2011 Expiry Date: 31/03/2025 Issue No: 7 Version Start Date: 25/04/2019 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m	0

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

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

5.9 Source Protection Zones

Records within 500m	0

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

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

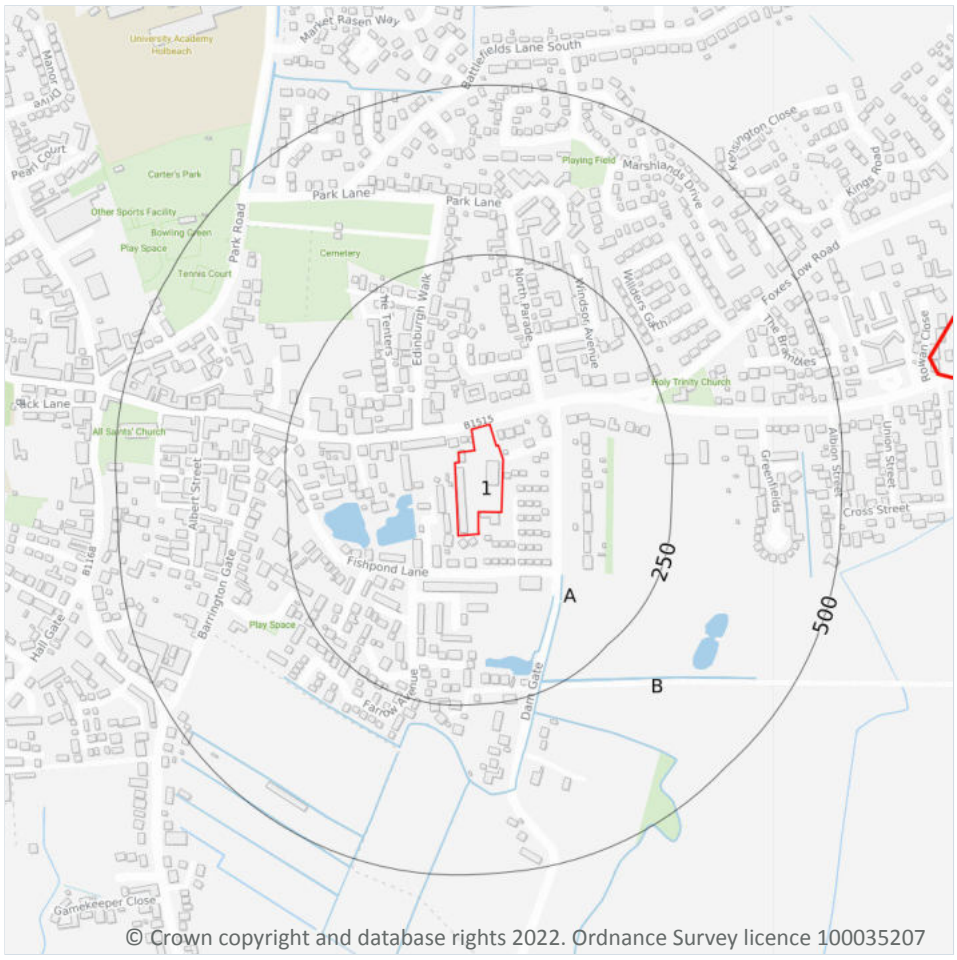
5.10 Source Protection Zones (confined aquifer)

Records within 500m	0

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

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

6 Hydrology



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Site Outline

Search buffers in metres (m)

Water Network (OS MasterMap)

Surface water features (wider than 5m)

Surface water features (narrower than 5m)

WFD River, canal and surface water transfer water bodies

WFD Lake water bodies

WFD Transitional and coastal water bodies

WFD Surface water body catchments boundaries

WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m	10

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 44**

ID	Location	Type of water feature	Ground level	Permanence	Name
A	128m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
A	142m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	156m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	158m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	160m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	195m S	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	235m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	235m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	237m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
A	247m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	**5**

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 44**

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site	1

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

Features are displayed on the Hydrology map on **page 44**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
1	**On site**	**River**	**Whaplode River**	**GB205031055495**	**Welland Lower**	**Welland**

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

6.4 WFD Surface water bodies

Records identified	1

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

Features are displayed on the Hydrology map on **page 44**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	1294m W	River	Whaplode River	GB205031055495	Moderate	Fail	Moderate	2019

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

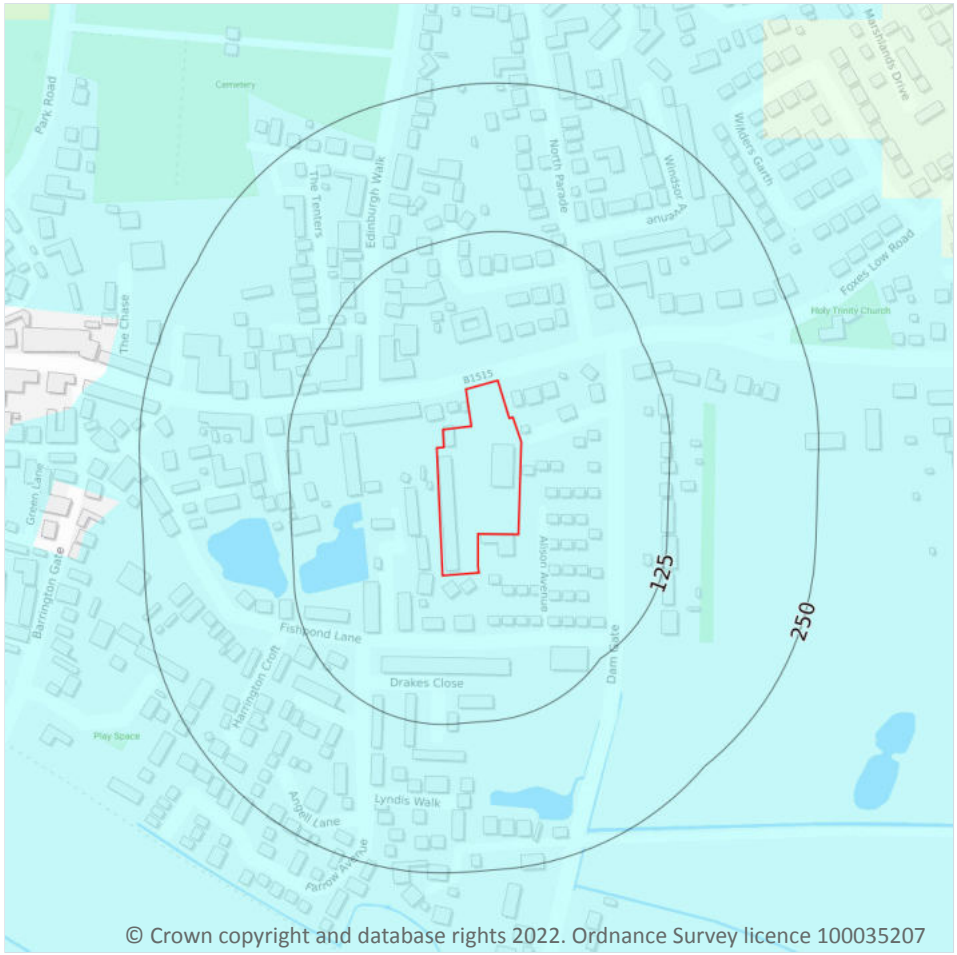
6.5 WFD Groundwater bodies

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.

7 River and coastal flooding



Site Outline

Search buffers in metres (m)

River and coastal flooding:

- High
- Medium
- Low
- Very Low
- Historical Flood Events
- Areas Used for Flood Storage
- Areas Benefiting from Flood Defences
- Flood Defences

7.1 Risk of flooding from rivers and the sea

Records within 50m	1

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

Features are displayed on the River and coastal flooding map on **page 47**

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

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

7.2 Historical Flood Events

Records within 250m	**0**

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

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

7.3 Flood Defences

Records within 250m	**0**

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

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

7.4 Areas Benefiting from Flood Defences

Records within 250m	**0**

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

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

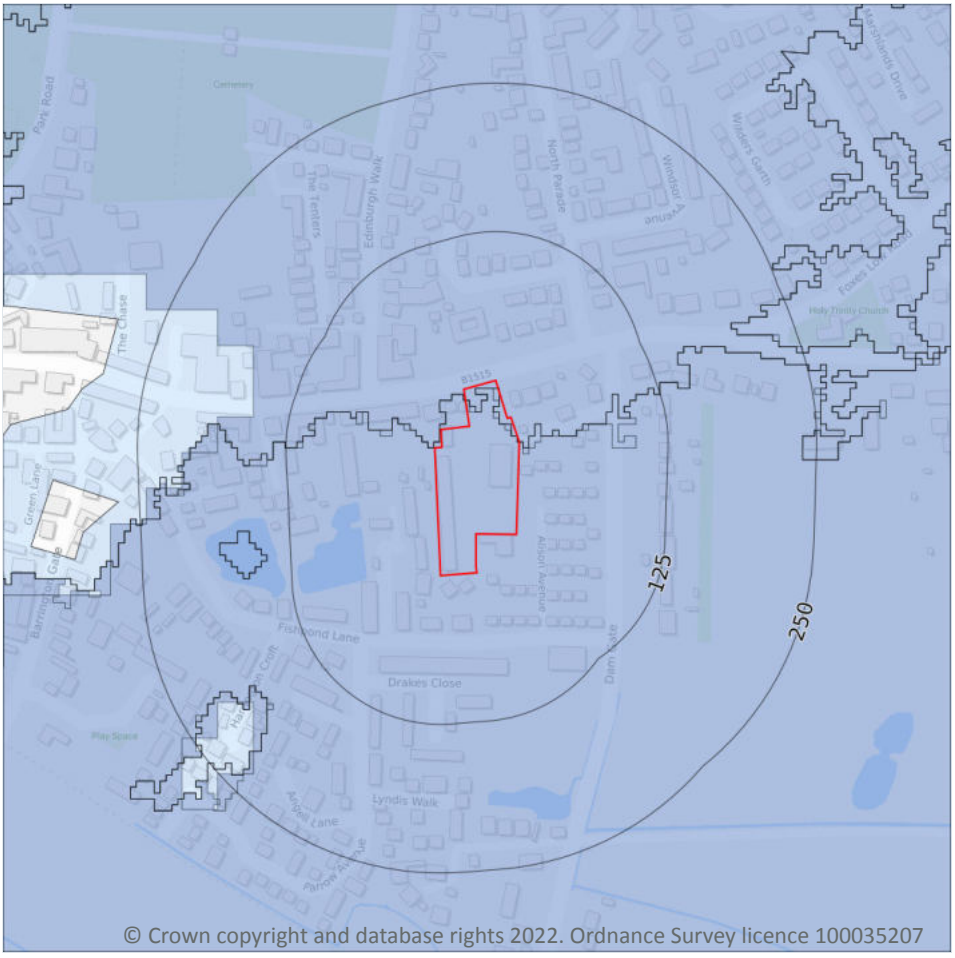
7.5 Flood Storage Areas

Records within 250m	**0**

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

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

River and coastal flooding - Flood Zones



Site Outline

Search buffers in metres (m)

Flood zone 2

Flood zone 3

7.6 Flood Zone 2

Records within 50m	1

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

Features are displayed on the River and coastal flooding map on **page 47**

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

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

7.7 Flood Zone 3

Records within 50m	1

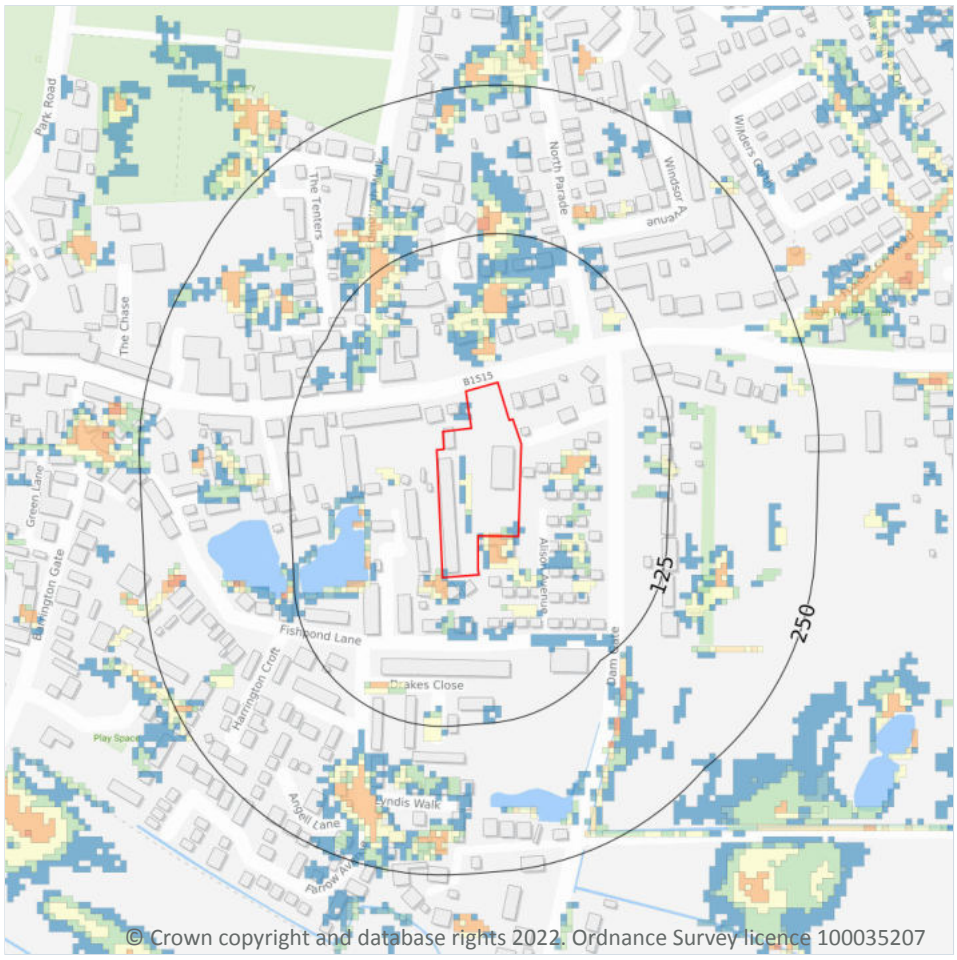
Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

Features are displayed on the River and coastal flooding map on **page 47**

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

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

8 Surface water flooding



Site Outline
Search buffers in metres (m)

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

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

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

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

8.1 Surface water flooding

Highest risk on site	**1 in 30 year, 0.1m - 0.3m**
Highest risk within 50m	**1 in 30 year, 0.1m - 0.3m**

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 51**

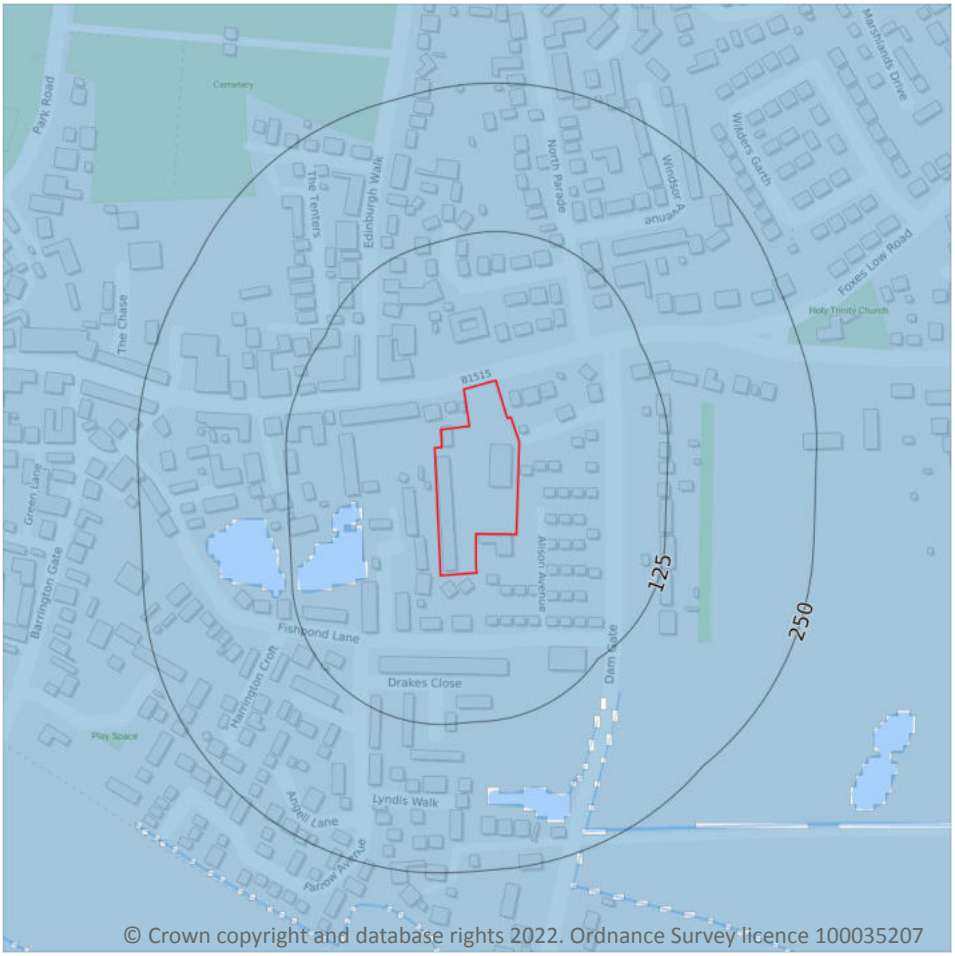
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on

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

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

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding



9.1 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 53**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations

10.1 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.

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m	0

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m	0

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m	0

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m	0

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

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

10.7 Designated Ancient Woodland

Records within 2000m	0

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

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

10.8 Biosphere Reserves

Records within 2000m	0

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

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

10.9 Forest Parks

Records within 2000m	0

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

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m	0

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

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

10.11 Green Belt

Records within 2000m	0

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

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

10.12 Proposed Ramsar sites

Records within 2000m	0

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

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m	0

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

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

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m	0

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

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m	0

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

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

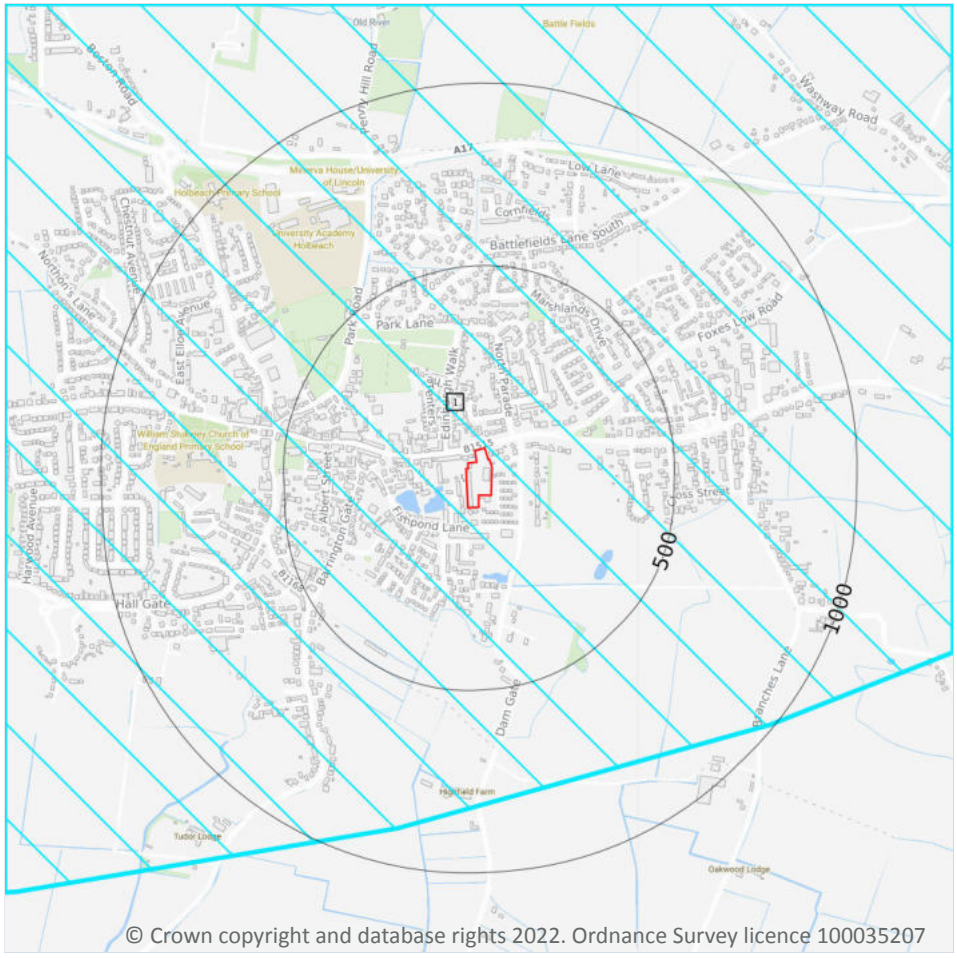
Records within 2000m	2

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

Location	Name	Type	NVZ ID	Status
10m NW	Whaplode River NVZ	Surface Water	S824	New
1186m N	Whaplode River NVZ	Surface Water	S824	New

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

SSSI Impact Zones and Units



Site Outline

Search buffers in metres (m)

SSSI Impact Risk Zones

SSSI Units

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

10.17 SSSI Impact Risk Zones

Records on site	1

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

Features are displayed on the SSSI Impact Zones and Units map on **page 58**

ID	Location	Type of developments requiring consultation
1	**On site**	**Infrastructure - Airports, helipads and other aviation proposals.** **Discharges - Any discharge of water or liquid waste of more than 20m³/day to ground (ie to seep away) or to surface water, such as a beck or stream.**

This data is sourced from Natural England.

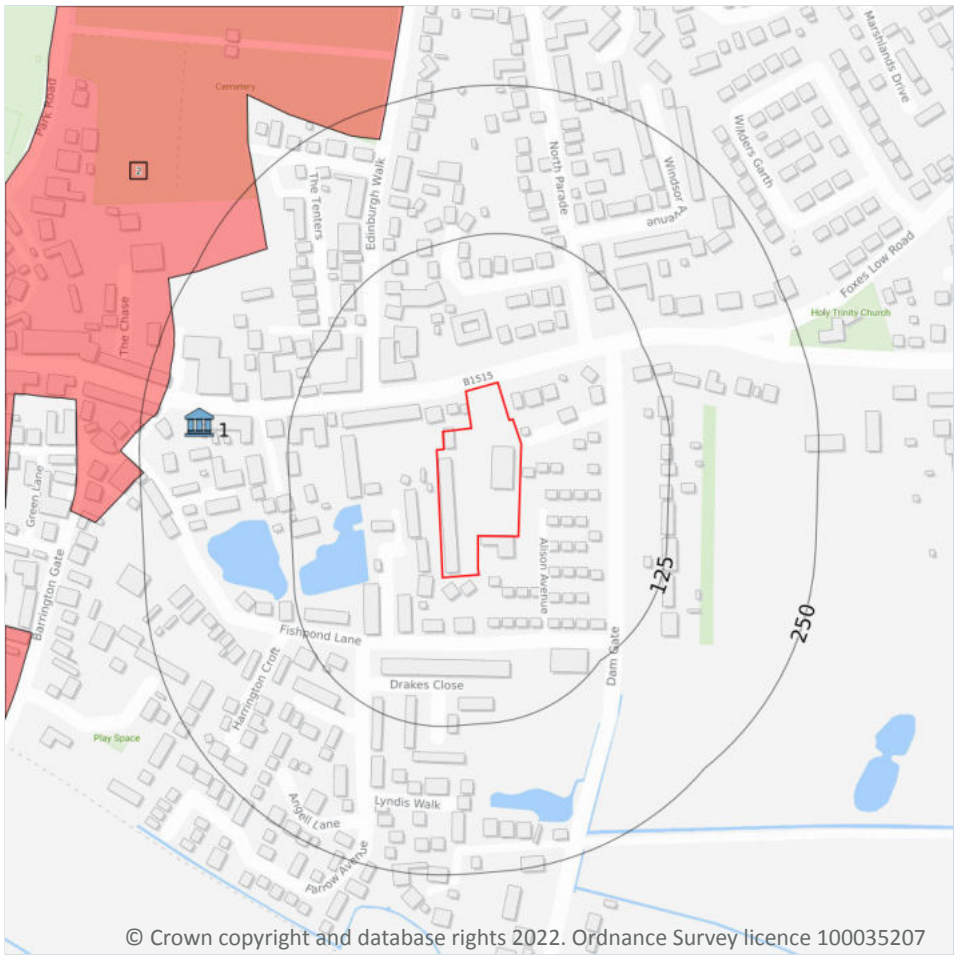
10.18 SSSI Units

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.

11 Visual and cultural designations



11.1 World Heritage Sites

Records within 250m	0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m	0

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

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

11.3 National Parks

Records within 250m	0

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

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

11.4 Listed Buildings

Records within 250m	1

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

Features are displayed on the Visual and cultural designations map on **page 60**

ID	Location	Name	Grade	Reference Number	Listed date
1	201m W	14, 16A, Fleet Street (See Details For Further Address Information), Holbeach, South Holland, Lincolnshire, PE12	II	1064490	07/12/1987

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

11.5 Conservation Areas

Records within 250m	1

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

Features are displayed on the Visual and cultural designations map on **page 60**

ID	Location	Name	District	Date of designation
2	206m NW	Holbeach	South Holland	1970

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

11.6 Scheduled Ancient Monuments

Records within 250m	0

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

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

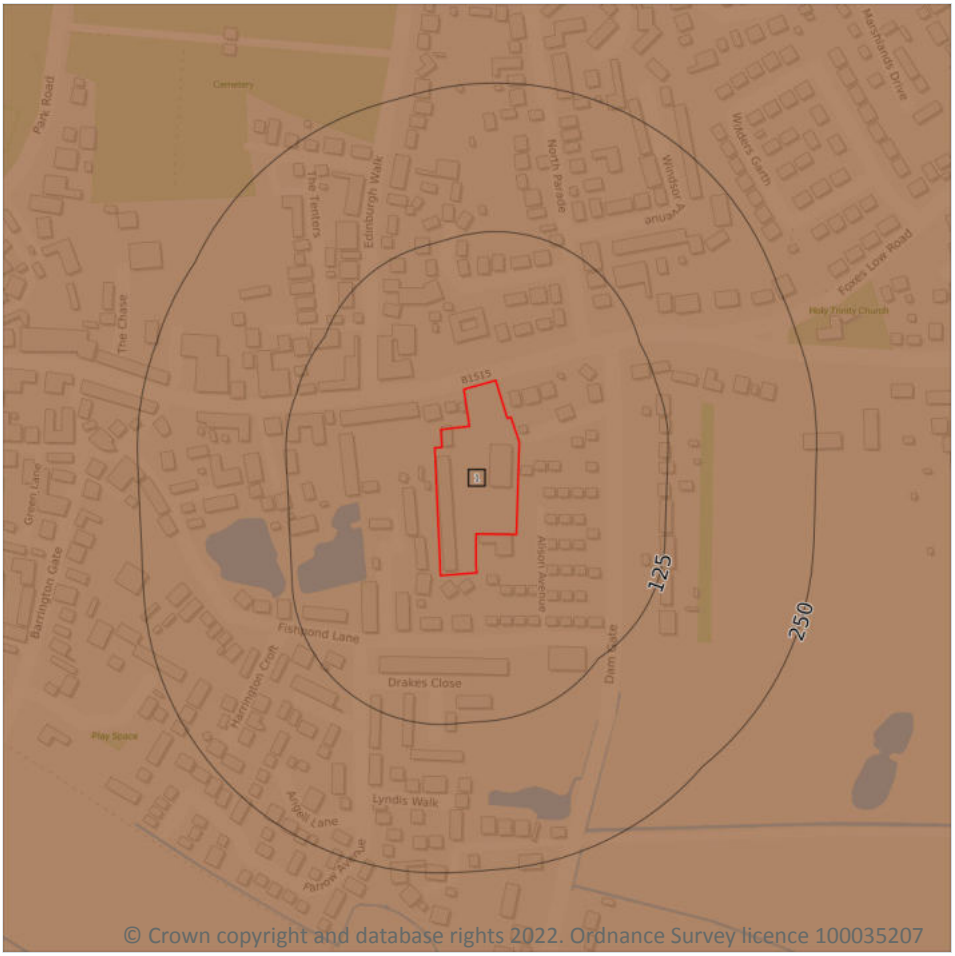
11.7 Registered Parks and Gardens

Records within 250m	0

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

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

12 Agricultural designations



Site Outline

Search buffers in metres (m)

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

12.1 Agricultural Land Classification

Records within 250m	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 63**

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.

12.2 Open Access Land

Records within 250m	0

The Countryside and Rights of Way Act 2000 (CROW Act) gives a public right of access to land without having to use paths. Access land includes mountains, moors, heaths and downs that are privately owned. It also includes common land registered with the local council and some land around the England Coast Path. Generally permitted activities on access land are walking, running, watching wildlife and climbing.

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

12.3 Tree Felling Licences

Records within 250m	0

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m	2

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

Location	Reference	Scheme	Start Date	End date
153m SE	AG00712284	Entry Level Stewardship	01/10/2013	30/09/2018
243m SE	AG00712284	Entry Level Stewardship	01/10/2013	30/09/2018

This data is sourced from Natural England.

12.5 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
153m SE	821356	Countryside Stewardship (Middle Tier)	01/01/2020	31/12/2024

This data is sourced from Natural England.

13 Habitat designations



Site Outline

Search buffers in metres (m)

Priority Habitat Inventory
Open Mosaic Habitat
Limestone Pavement Orders

Habitat Networks

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

13.1 Priority Habitat Inventory

Records within 250m	**2**

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 66**

ID	Location	Main Habitat	Other habitats
1	134m SE	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
2	223m SE	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m	0

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

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m	0

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

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m	0

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

This data is sourced from Natural England.

14 Geology 1:10,000 scale - Availability



Site Outline

Search buffers in metres (m)

Full coverage

Partial coverage

No coverage

14.1 10k Availability

Records within 500m	1

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

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 68**

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

This data is sourced from the British Geological Survey.

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

14.2 Artificial and made ground (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial

14.3 Superficial geology (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Bedrock

14.5 Bedrock geology (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

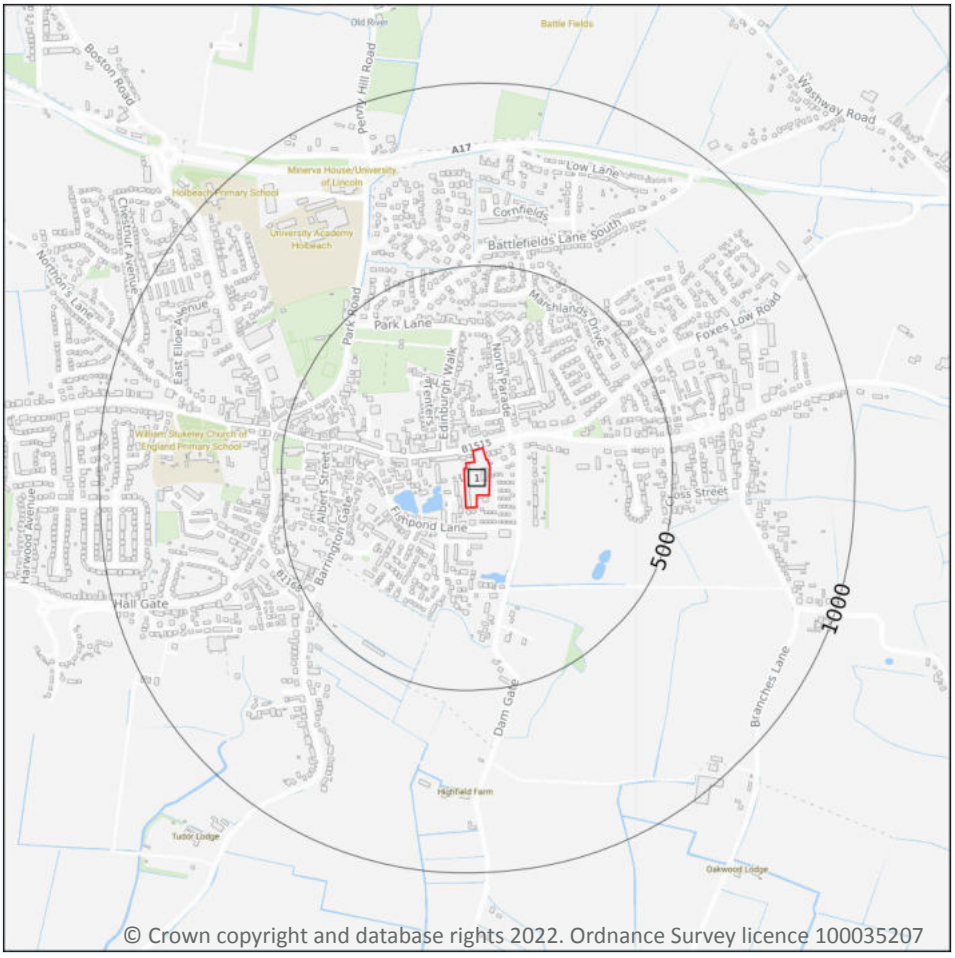
14.6 Bedrock faults and other linear features (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

15 Geology 1:50,000 scale - Availability



Site Outline

Search buffers in metres (m)

Geological map tile

15.1 50k Availability

Records within 500m	1

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

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 72**

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

15.2 Artificial and made ground (50k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

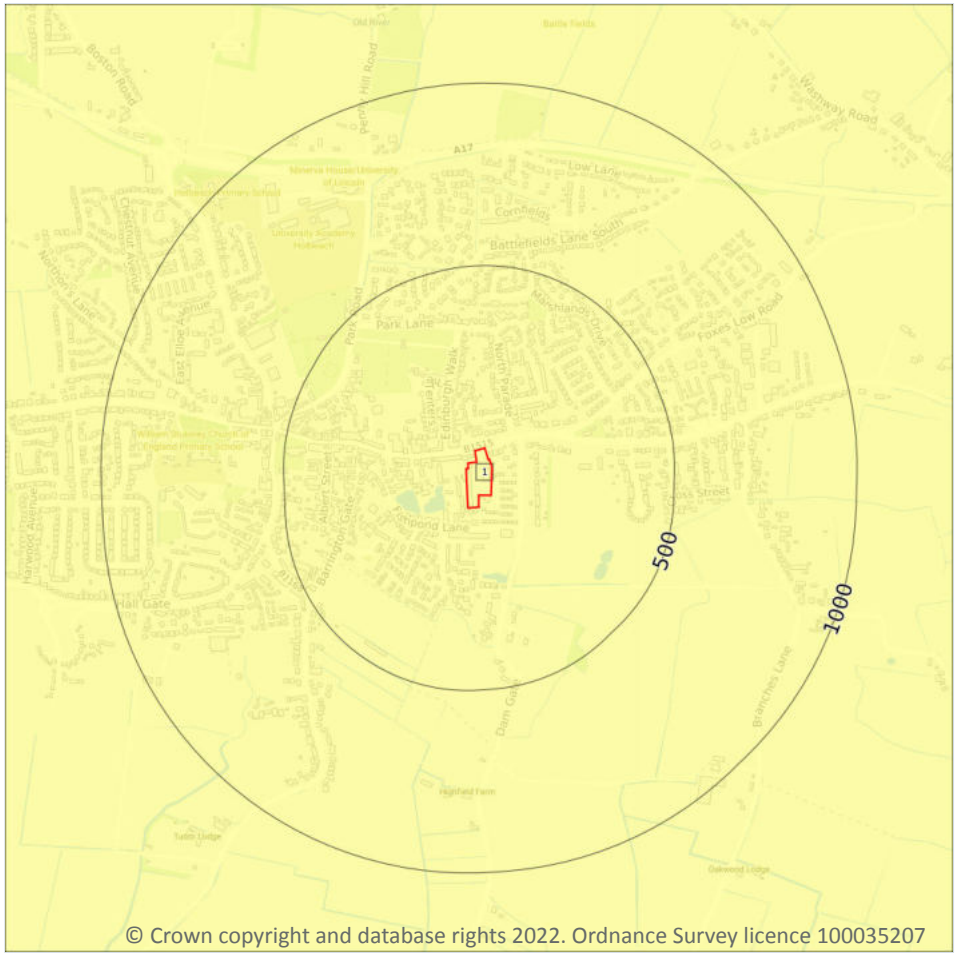
15.3 Artificial ground permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

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

15.4 Superficial geology (50k)

Records within 500m	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 74**

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.

15.5 Superficial permeability (50k)

Records within 50m	1

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

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

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

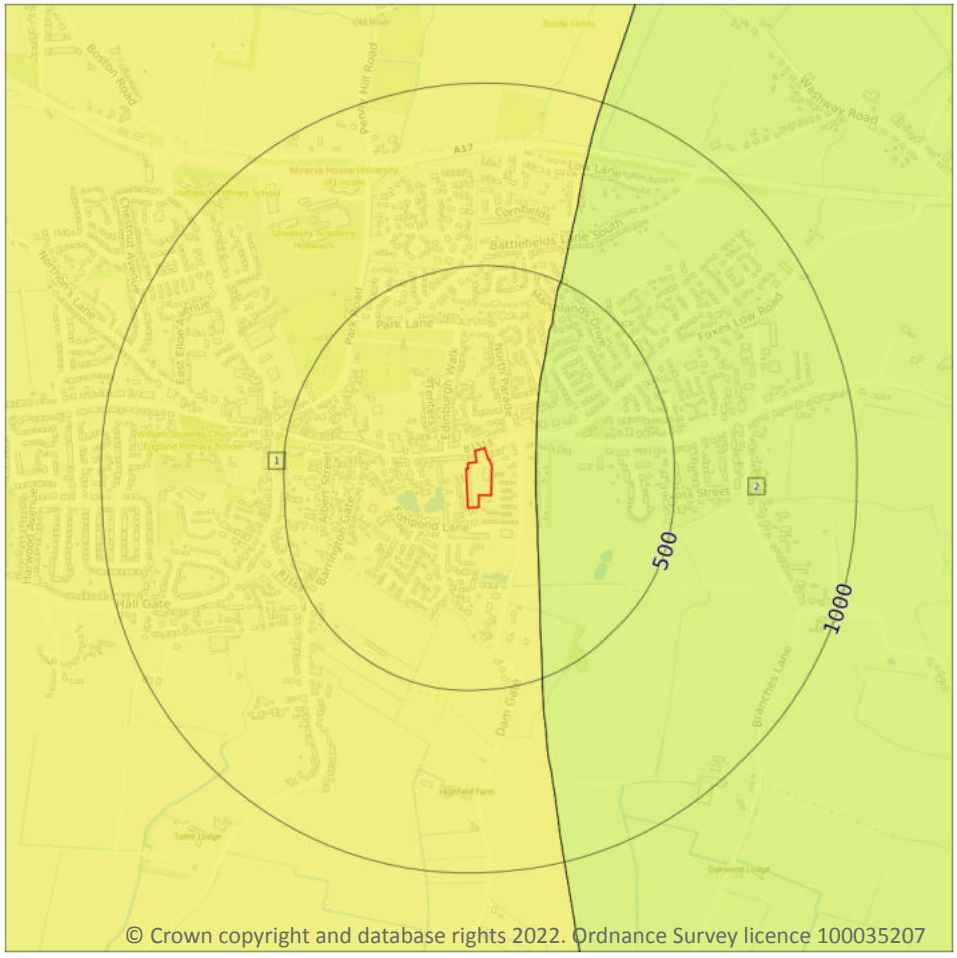
15.7 Landslip permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (50k)

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

15.8 Bedrock geology (50k)

Records within 500m **2**

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 76**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**WWB-MDSI**	**WEST WALTON FORMATION - MUDSTONE AND SILTSTONE**	**OXFORDIAN**
2	120m E	AMC-MDST	AMPTHILL CLAY FORMATION - MUDSTONE	OXFORDIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	1

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Fracture**	**Low**	**Very Low**

This data is sourced from the British Geological Survey.

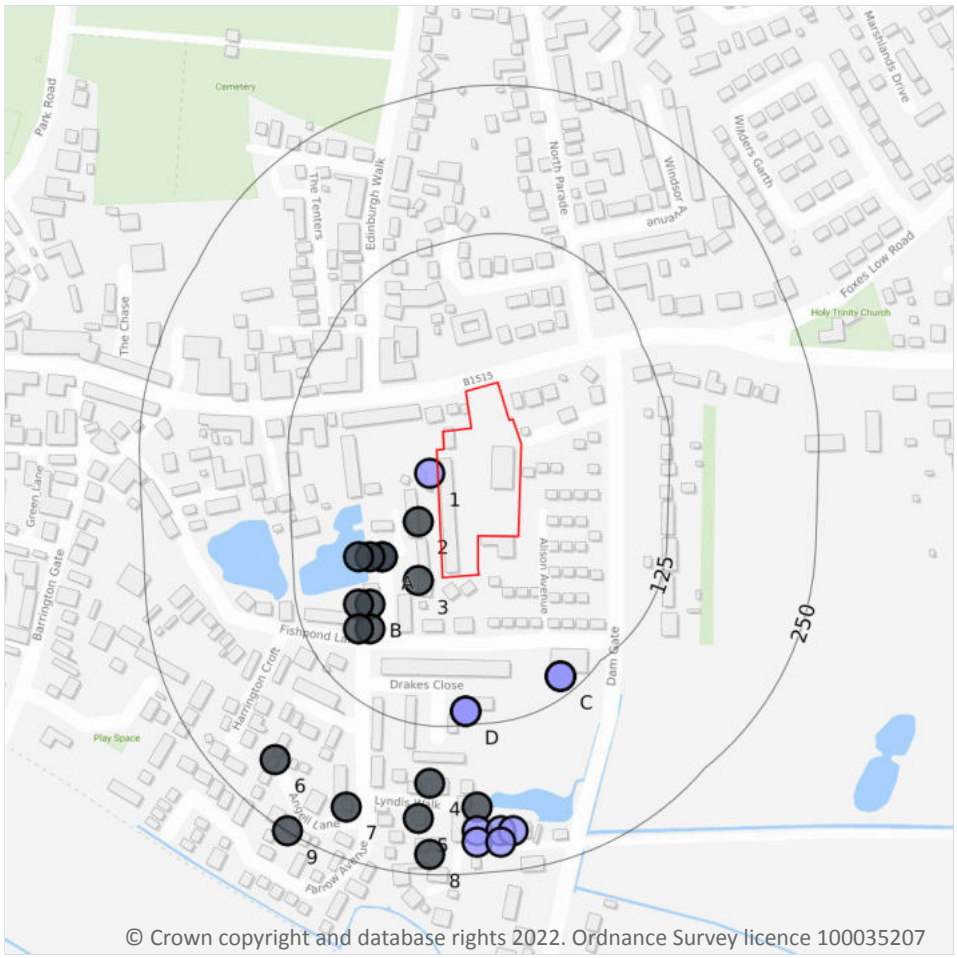
15.10 Bedrock faults and other linear features (50k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

16 Boreholes



Site Outline

Search buffers in metres (m)

Confidential

0 - 10m

10 - 30m

30m+

Unknown

16.1 BGS Boreholes

Records within 250m	40

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 78**

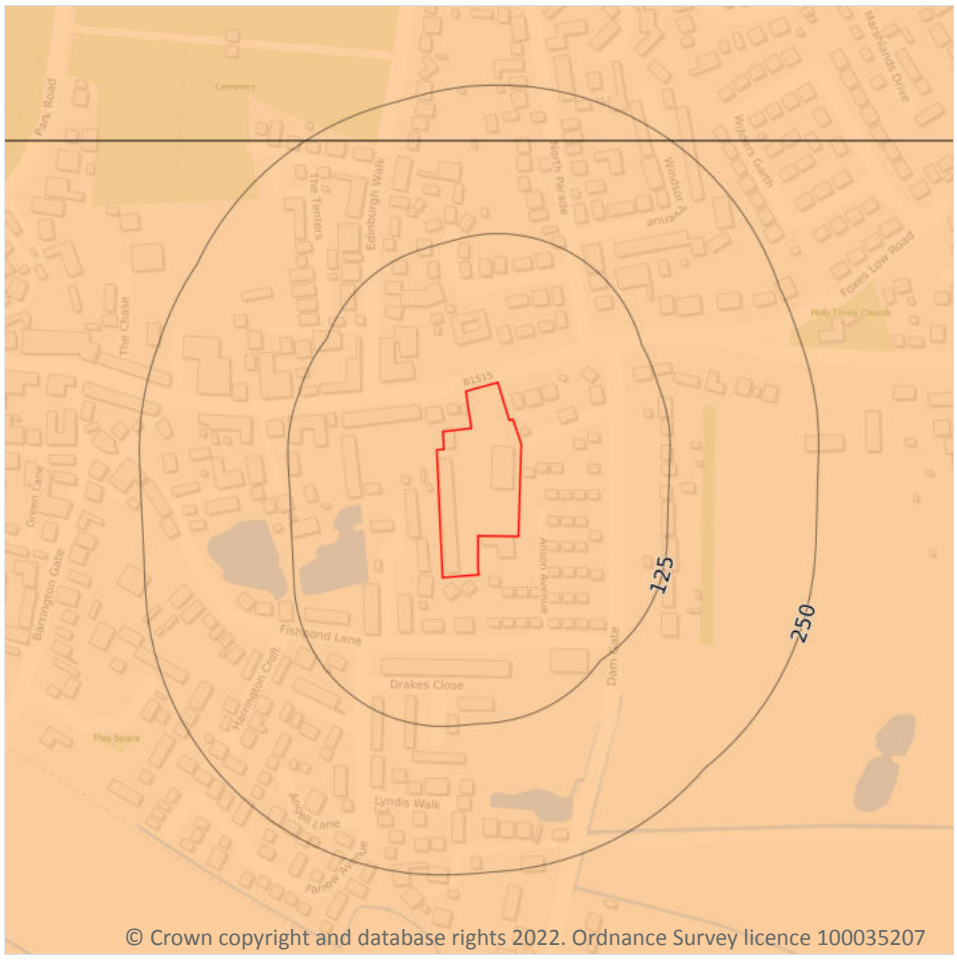
ID	Location	Grid reference	Name	Length	Confidential	Web link
1	7m W	536370 324720	HOLBEACH SQUASH COURTS	9.0	N	504086
2	19m W	536360 324680	FISHPOND LANE HOLBEACH TP 9	-	Y	N/A

ID	Location	Grid reference	Name	Length	Confidential	Web link
3	21m W	536360 324630	FISHPOND LANE HOLBEACH TP 10	-	Y	N/A
A	50m W	536330 324650	FISHPOND LANE HOLBEACH TP 3	-	Y	N/A
A	50m W	536330 324650	FISHPOND LANE HOLBEACH TP 8	-	Y	N/A
A	60m W	536320 324650	FISHPOND LANE HOLBEACH TP 4	-	Y	N/A
B	65m W	536320 324610	FISHPOND LANE HOLBEACH TP 2	-	Y	N/A
A	70m W	536310 324650	FISHPOND LANE HOLBEACH TP 7	-	Y	N/A
B	74m SW	536320 324590	FISHPOND LANE HOLBEACH TP 1	-	Y	N/A
B	74m W	536310 324610	FISHPOND LANE HOLBEACH TP 6	-	Y	N/A
B	83m SW	536310 324590	FISHPOND LANE HOLBEACH TP 5	-	Y	N/A
C	109m SE	536480 324550	HOLBEACH 10	1.0	N	504102
C	109m SE	536480 324550	HOLBEACH 4	2.0	N	504096
C	109m SE	536480 324550	HOLBEACH 1	5.1	N	504093
C	109m SE	536480 324550	HOLBEACH 11	1.0	N	504103
C	109m SE	536480 324550	HOLBEACH 5	2.0	N	504097
C	109m SE	536480 324550	HOLBEACH 2	2.0	N	504094
C	109m SE	536480 324550	HOLBEACH 3	2.0	N	504095
C	109m SE	536480 324550	HOLBEACH 8	1.0	N	504100
C	109m SE	536480 324550	HOLBEACH 7	2.0	N	504099
C	109m SE	536480 324550	HOLBEACH 6	3.0	N	504098
C	109m SE	536480 324550	HOLBEACH 9	1.0	N	504101
D	114m S	536400 324520	FISHPOND LANE HOLBEACH 1A	2.0	N	504089
D	114m S	536400 324520	FISHPOND LANE HOLBEACH 4A	2.0	N	504092
D	114m S	536400 324520	FISHPOND LANE HOLBEACH 3A	2.0	N	504091
D	114m S	536400 324520	FISHPOND LANE HOLBEACH 2A	2.0	N	504090
D	114m S	536400 324520	FISHPOND LANE HOLBEACH 2	5.0	N	504088
D	114m S	536400 324520	FISHPOND LANE HOLBEACH 1	5.0	N	504087
4	173m S	536370 324460	FARROW AVENUE HOLBEACH TP6	-	Y	N/A
E	194m S	536410 324440	FARROW AVENUE HOLBEACH TP4	-	Y	N/A

ID	Location	Grid reference	Name	Length	Confidential	Web link
5	204m S	536360 324430	FARROW AVENUE HOLBEACH TP7	-	Y	N/A
6	208m SW	536240 324480	FARROW AVENUE HOLBEACH TP1	-	Y	N/A
7	209m SW	536300 324440	FARROW AVENUE HOLBEACH TP2	-	Y	N/A
E	214m S	536410 324420	DAMGATE HOLBEACH TP 1	3.0	N	15611165
E	216m S	536430 324420	DAMGATE HOLBEACH TP 2	3.0	N	15611166
E	217m S	536440 324420	DAMGATE HOLBEACH TP 3	3.0	N	15611167
E	224m S	536410 324410	DAMGATE HOLBEACH TP 5	0.75	N	15611169
E	226m S	536430 324410	DAMGATE HOLBEACH TP 4	0.75	N	15611168
8	233m S	536370 324400	FARROW AVENUE HOLBEACH TP5	-	Y	N/A
9	250m SW	536250 324420	FARROW AVENUE HOLBEACH TP4	-	Y	N/A

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



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17.1 Shrink swell clays

Records within 50m	1

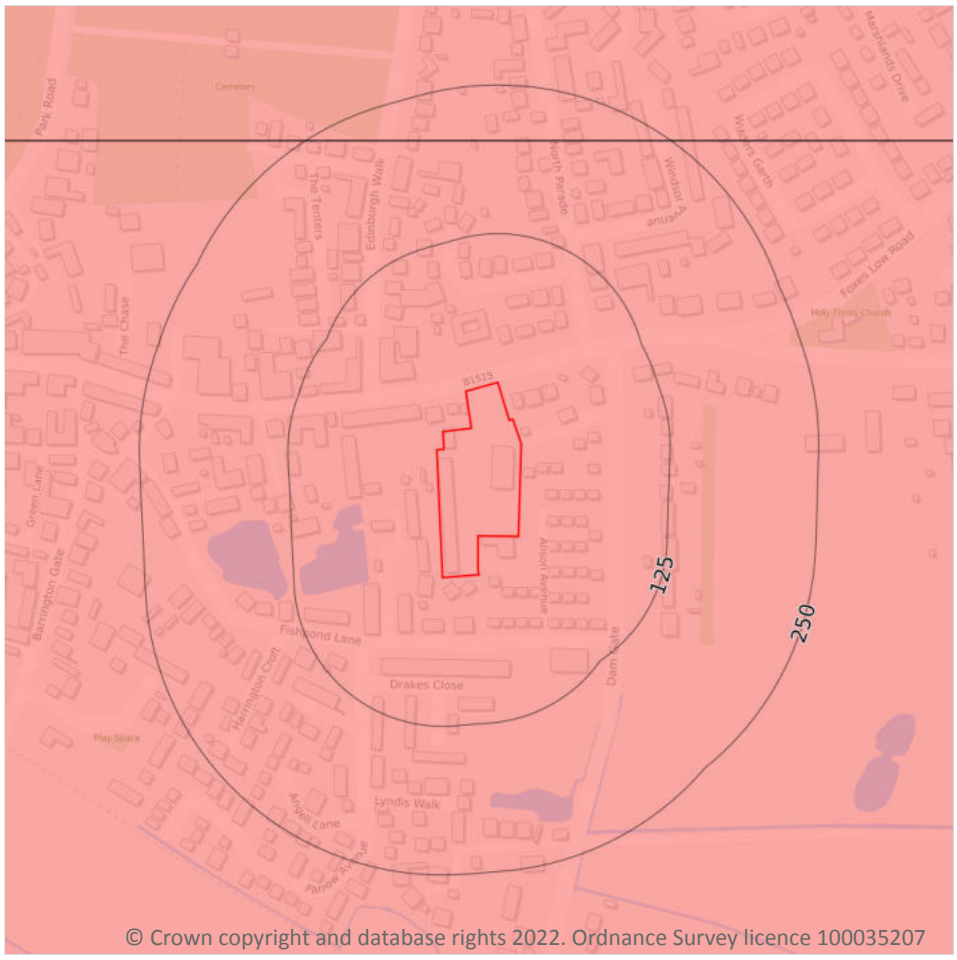
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 81**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



Site Outline

Search buffers in metres (m)

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

17.2 Running sands

Records within 50m	1

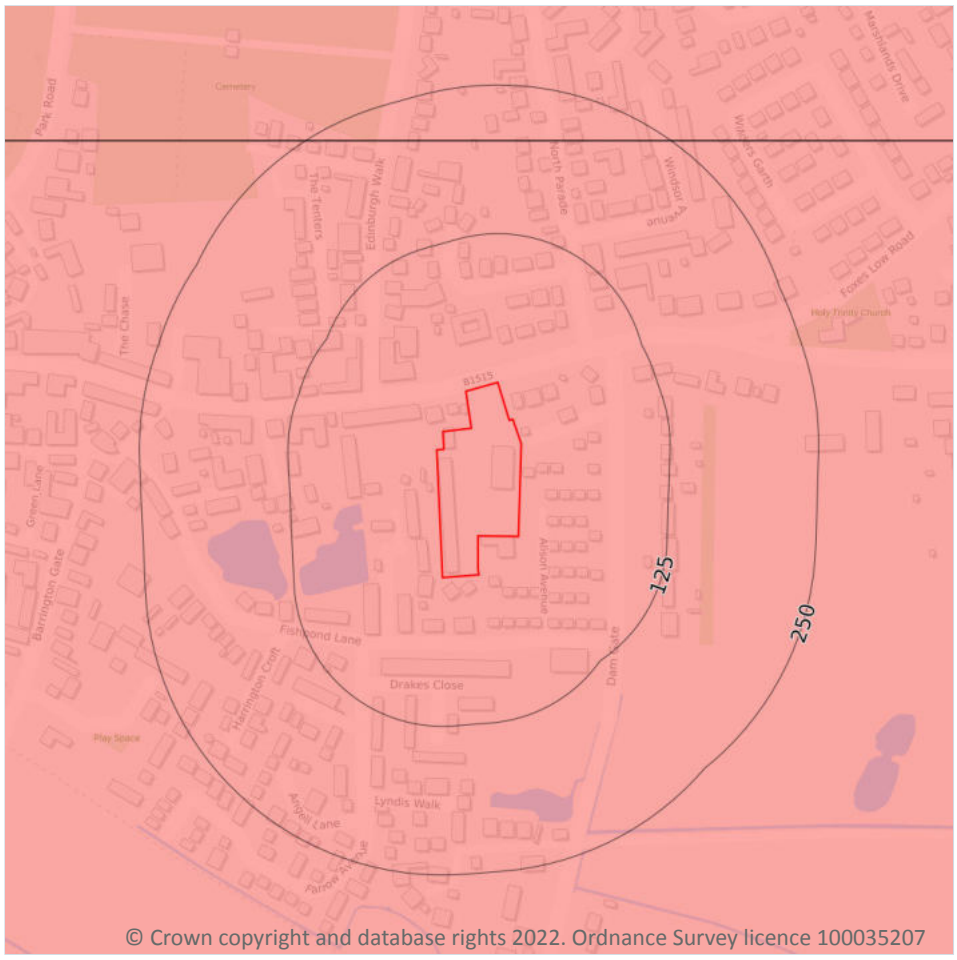
The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on **page 82**

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

17.3 Compressible deposits

Records within 50m	1

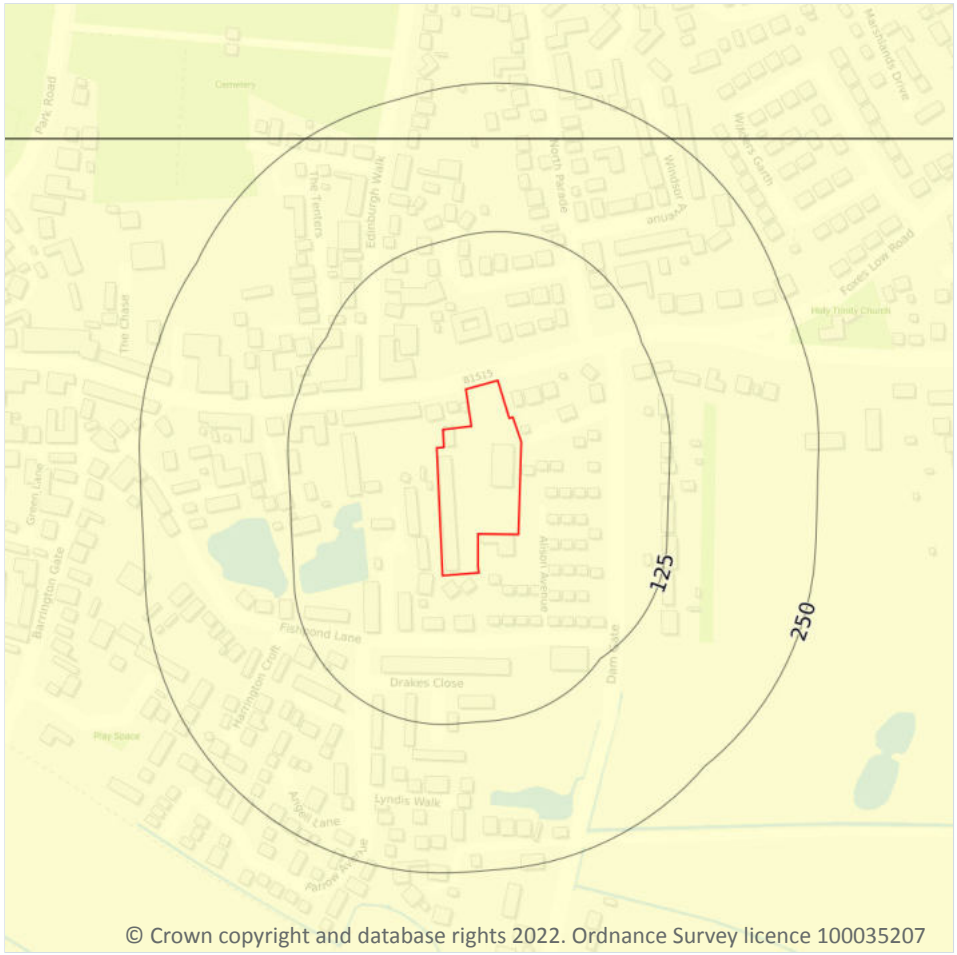
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 83**

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



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Site Outline

Search buffers in metres (m)

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

17.4 Collapsible deposits

Records within 50m	1

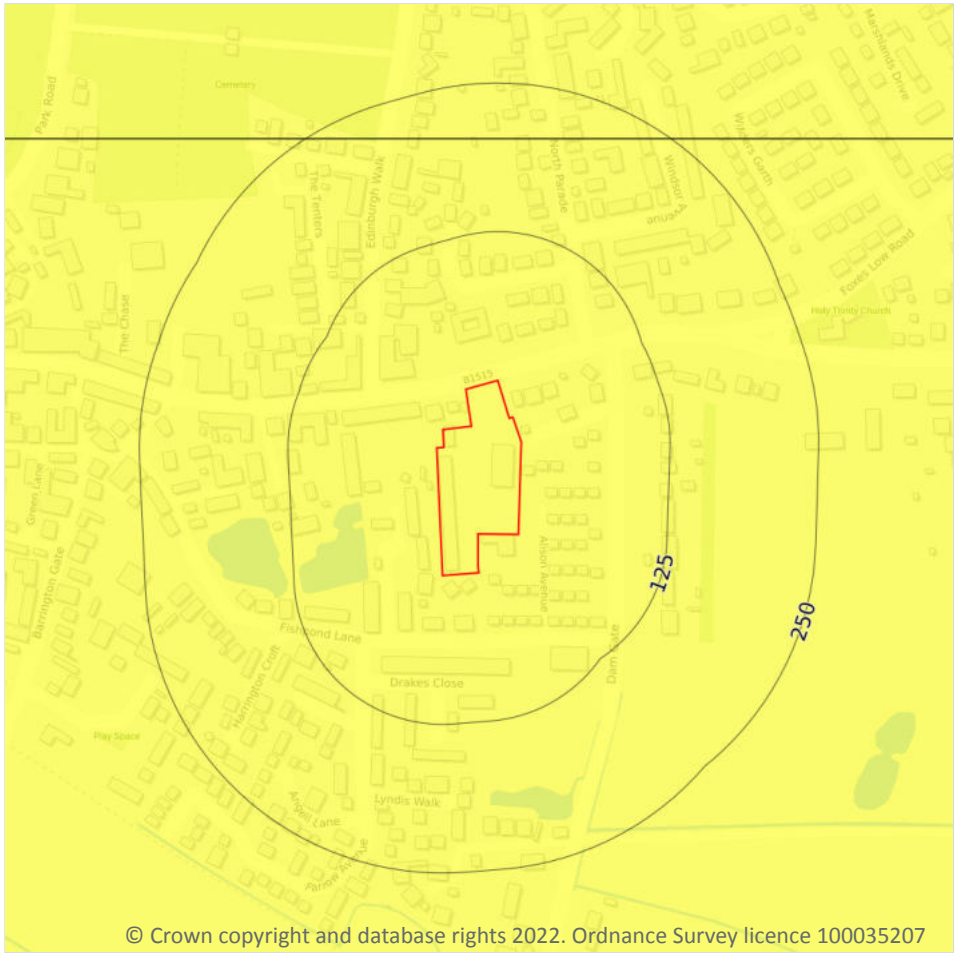
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 84**

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



17.5 Landslides

Records within 50m	1

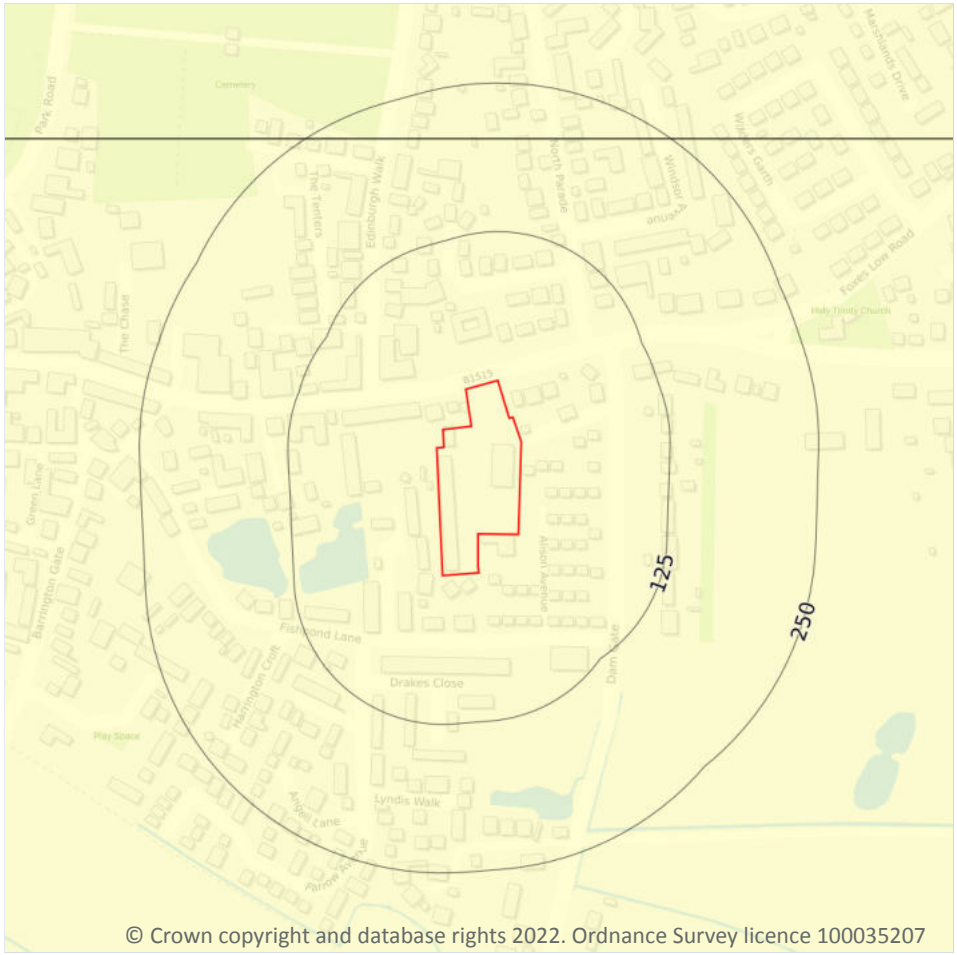
The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on **page 85**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Ground dissolution of soluble rocks



Site Outline

Search buffers in metres (m)

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

17.6 Ground dissolution of soluble rocks

Records within 50m	1

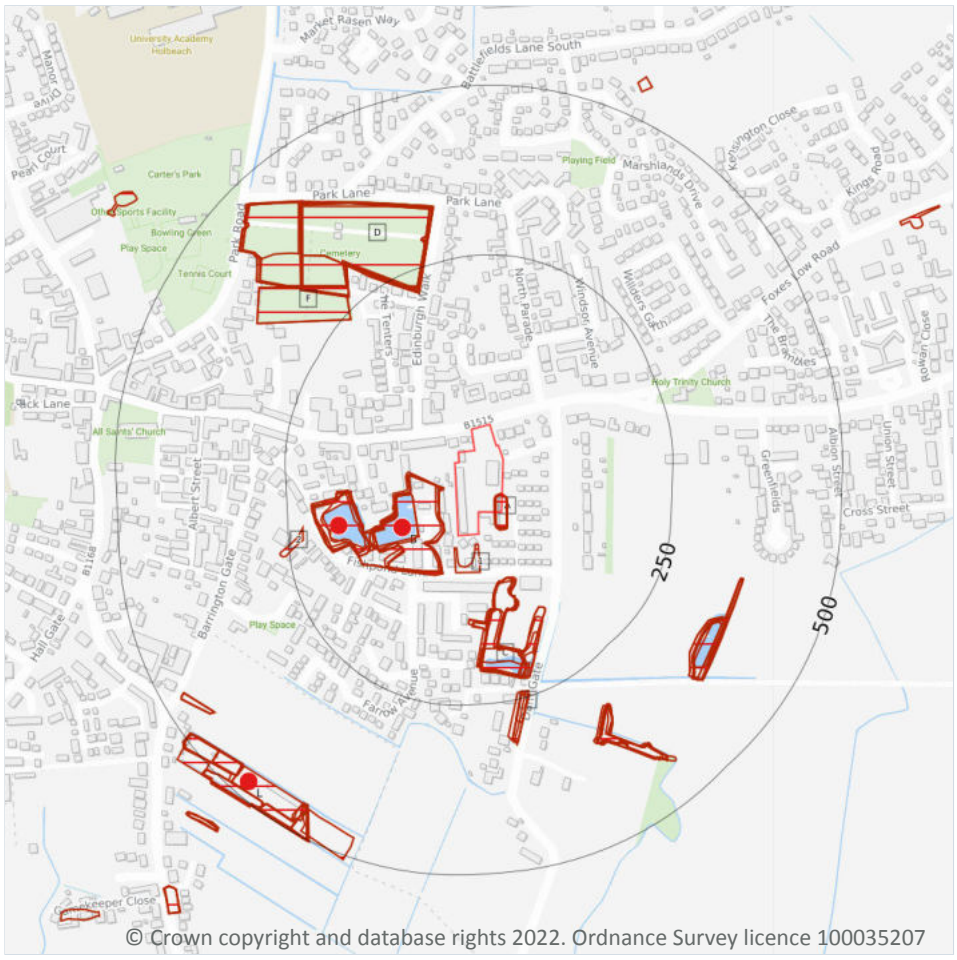
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 86**

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

This data is sourced from the British Geological Survey.

18 Mining, ground workings and natural cavities



Site Outline

Search buffers in metres (m)

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

Non Coal Mining

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

18.1 Natural cavities

Records within 500m	0

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

This data is sourced from Stantec UK Ltd.

18.2 BritPits

Records within 500m	3

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 88**

ID	Location	Details	Description
B	82m W	Name: Holbeach Brick Pits Address: HOLBEACH, Lincolnshire Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
B	174m W	Name: Holbeach Brick Pits Address: HOLBEACH, Lincolnshire Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
L	475m SW	Name: Holbeach Brick Works Address: HOLBEACH, Lincolnshire Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m	45

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 88**

ID	Location	Land Use	Year of mapping	Mapping scale
A	**On site**	**Pond**	**1938**	**1:10560**
A	**On site**	**Pond**	**1903**	**1:10560**

ID	Location	Land Use	Year of mapping	Mapping scale
A	**On site**	**Pond**	**1887**	**1:10560**
A	**On site**	**Pond**	**1929**	**1:10560**
A	**On site**	**Pond**	**1903**	**1:10560**
1	15m S	Ponds	1887	1:10560
B	18m W	Old Brick Pits	1950	1:10560
B	18m W	Old Brick Pits	1903	1:10560
B	18m W	Old Brick Pits	1887	1:10560
B	20m W	Old Brick Pits	1929	1:10560
B	20m W	Old Brick Pits	1903	1:10560
B	21m W	Old Brick Pits	1938	1:10560
B	21m W	Old Brick Pits	1938	1:10560
B	25m W	Old Brick Pits	1958	1:10560
B	58m W	Ponds	1992	1:10000
B	59m W	Ponds	1970	1:10000
C	75m SE	Old Fish Ponds	1903	1:10560
C	75m SE	Old Fish Ponds	1887	1:10560
C	76m SE	Old Fish Ponds	1929	1:10560
C	77m SE	Old Fish Ponds	1903	1:10560
C	77m S	Old Fish Ponds	1938	1:10560
C	111m S	Old Fish Ponds	1958	1:10560
C	115m S	Old Fish Ponds	1950	1:10560
B	131m W	Old Brick Pits	1929	1:10560
B	131m W	Old Brick Pits	1903	1:10560
B	137m W	Old Brick Pits	1958	1:10560
C	167m S	Pond	1970	1:10000
C	188m S	Pond	1992	1:10000
D	215m N	Cemetery	1903	1:10560
D	215m N	Cemetery	1887	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
D	217m N	Cemetery	1950	1:10560
D	217m N	Cemetery	1929	1:10560
D	217m N	Cemetery	1903	1:10560
D	220m N	Cemetery	1938	1:10560
D	225m N	Cemetery	1992	1:10000
D	225m N	Cemetery	1955	1:10560
D	225m N	Cemetery	1976	1:10000
2	228m W	Pond	1887	1:10560
E	240m S	Pond	1887	1:10560
E	240m S	Pond	1958	1:10560
F	241m NW	Cemetery	1992	1:10000
F	241m NW	Cemetery	1970	1:10000
E	245m S	Pond	1938	1:10560
E	245m S	Pond	1950	1:10560
E	245m S	Pond	1903	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m	**0**

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

This is data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m	**0**

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

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m	0

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

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m	0

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

This data is sourced from Stantec UK Ltd.

18.8 JPB mining areas

Records on site	0

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

This data is sourced from Johnson Poole and Bloomer.

18.9 Coal mining

Records on site	0

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

This data is sourced from the Coal Authority.

18.10 Brine areas

Records on site	0

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

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

18.11 Gypsum areas

Records on site	0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

Records on site	0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

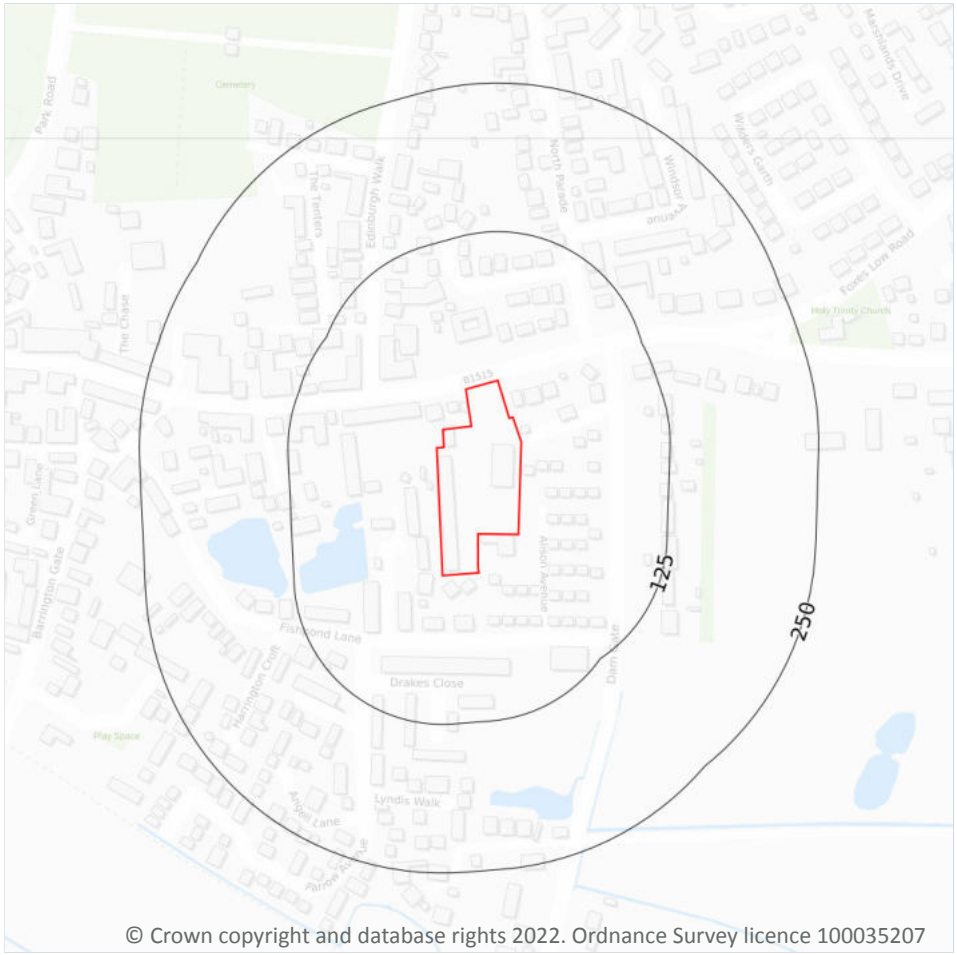
18.13 Clay mining

Records on site	0

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

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

19 Radon



Site Outline

Search buffers in metres (m)

Greater than 30%

Between 10% and 30%

Between 5% and 10%

Between 3% and 5%

Between 1% and 3%

Less than 1%

19.1 Radon

Records on site	1

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

Features are displayed on the Radon map on **page 94**

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

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

20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m	1

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**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.

20.2 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.

20.3 BGS Measured Urban Soil Chemistry

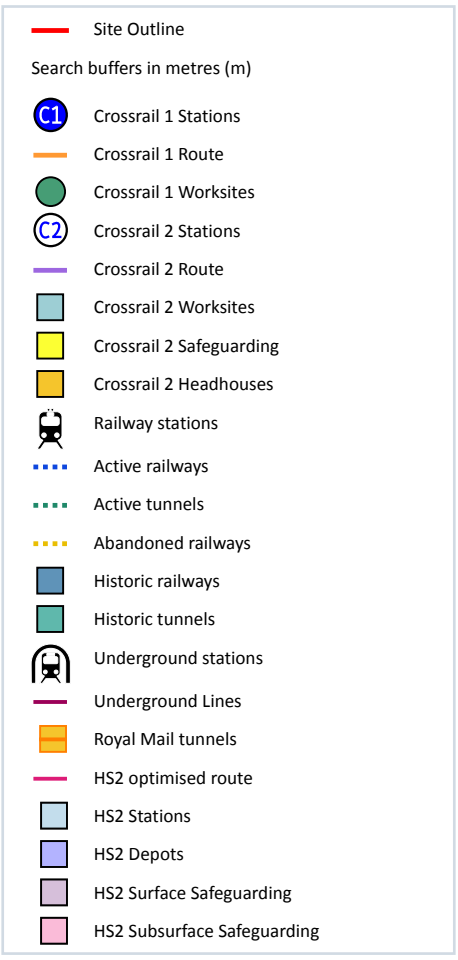
Records within 50m	0

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

This data is sourced from the British Geological Survey.

21 Railway infrastructure and projects





21.1 Underground railways (London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m	0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m	0

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.

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m	0

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

This data is sourced from Groundsure/the Postal Museum.

21.6 Historical railways

Records within 250m	2

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

Features are displayed on the Railway infrastructure and projects map on **page 96**

Location	Description
234m S	Razed
242m S	Abandoned

This data is sourced from OpenStreetMap.

21.7 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.

21.8 Crossrail 1

Records within 500m	0

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

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m	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.

21.10 HS2

Records within 500m	0

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

This data is sourced from HS2 ltd.

Data providers

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

Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: https://www.groundsure.com/terms-and-conditions-jan-2020/.

APPENDIX 6 - Risk Assessment Methodology

Contaminated Land Risk Assessment

Contaminated Land Risk Assessment is a technique that identifies and considers the associated risk, determines whether the risks are significant and whether action needs to be taken. The four main stages of risk assessment are:

Hazard Identification ⇨ Hazard Assessment ⇨ Risk Estimation ⇨ Risk Evaluation

LCRM outlines the framework to be followed for risk assessment in the UK. The framework is designed to be consistent with UK legislation and policies including planning. The starting point of the risk assessment is to identify the context of the problem and the objectives of the process.

Formulating and developing a conceptual model for the site is an important requirement of risk assessment, this supports the identification and assessment of pollutant linkages. Development of the conceptual model forms the main part of preliminary risk assessment, and the model is subsequently refined or revised as more information and understanding is obtained through the risk assessment process.

Risk is a combination of the likelihood of an event occurring and the magnitude of its consequences. Therefore, both the likelihood and the consequences of an event must be taken into account when assessing risk.

The risk assessment process needs to take into account the degree of confidence required in decisions. Identification of uncertainties is an essential step in risk assessment.

The likelihood of an event is classified on a four-point system using the following terms and definitions from CIRIA C552:

- High likelihood: There is a pollution linkage and an event 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 pollution linkage and all the elements are present and in the right place, which means it is probable that an event will occur. Circumstances are such that the event is not inevitable, but possible in the short term and likely over the long term;

- Low likelihood: There is a pollution linkage and circumstances are possible under which an event could occur. However, it is by no means certain even over a longer period such event would take place, and is less likely in the short term;

- Unlikely: There is a pollution linkage but circumstances are such that it is improbable the event would occur even in the long term.

The severity is also classified using a system based on CIRIA C552. The terms and definitions are:

- Severe: Short term (acute) risk to human health likely to result in 'significant harm' as defined by the Environment Protection Act 1990, Part IIA. Short-term risk of pollution of sensitive water resources. Catastrophic damage to buildings or property. A short-term risk to a particular ecosystem or organism forming part of that ecosystem (note definition of ecosystem in 'Draft Circular on Contaminated Land', DETR 2000);
  Examples – High concentrations of contaminant on surface of recreation area, major spillage of contaminants from site into controlled waters, explosion causing building to collapse;

- Medium: Chronic damage to human health ('significant harm' as defined in DETR 2000). Pollution of sensitive water resources. A significant change in a particular ecosystem or organism forming part of that ecosystem (note definition of ecosystem in 'Draft Circular on Contaminated Land', DETR 2000);
  Examples - Concentrations of contaminants exceed the generic assessment criteria, leaching of contaminants from a site to a Principal or Secondary Aquifer, death of species within a designated nature reserve;

- Mild: Pollution of non-sensitive water resources. Significant damage to crops, buildings, structures and services ('significant harm' as defined in 'Draft Circular on Contaminated Land', DETR 2000). Damage to sensitive buildings, structures, services or the environment;
  Examples – Pollution of non-classified groundwater or damage to buildings rendering it unsafe to occupy.

- Minor: harm, not necessarily significant harm, which may result in financial loss or expenditure to resolve. Non-permanent health effects to human health (easily prevented by use of personal protective clothing etc). Easily repairable effects of damage to buildings, structures and services.
  Examples – Presence of contaminants at such concentrations PPE is required during site work, loss of plants in landscaping scheme or discolouration of concrete.

Once the likelihood and severity have been determined, a risk category can be assigned using the table below.

		Consequences			
		Severe	Medium	Mild	Minor
Probability	Highly likely	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

Definitions of the risk categories obtained from the above table are as follows together with an assessment of the further work that might be required:

- 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 is currently happening. This risk, if realised, could result in substantial liability. Urgent investigation 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 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 any such harm would be severe, or if any harm were to occur it would be more likely to be relatively mild. Investigation is normally required to clarify the risk and determine the liability. Some remedial works may be required in the longer term;

- 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 7 - Exploratory Hole Logs

Borehole Log

GROUNDTECH CONSULTING

Borehole No. **WS01**

Sheet 1 of 1

Project Name: ALDI HOLBEACH	Project No. GRO-21400	Co-ords: -	Hole Type WS
Location: HOLBEACH		Level:	Scale 1:25
Client: ALDI STORES LIMTED		Dates: 25/01/2022 -	Logged By CJH

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.10			MADE GROUND: Tarmac.
		0.20	ES					MADE GROUND: Pale brown very sandy angular to subangular fine to coarse gravel of sandstone and limestone. Sand is coarse.
					0.50			Very soft brown grey very sandy CLAY. Sand is fine.
	▼	1.00	D					
		1.20		N=2 (0,1/0,1,1,0)				
		2.00	D					
		2.00		N=0 (0,0/0,0,0,0)				
		3.00	D					
		3.00		N=1 (0,0/1,0,0,0)				
		4.00	D					
		4.00		N=0 (0,0/0,0,0,0)				
					4.45			End of borehole at 4.45 m

1 2 3 4 5

Remarks

1. Location cleared using hand held CAT scanner. 2. Hand dug pit to 1.20m bgl. 3. Groundwater encountered at 1.10m bgl. 4. Monitoring standpipe installed to 4.00m bgl (1.00m plain, 3.00m slotted).

Borehole Log

GROUNDTECH CONSULTING

Borehole No. **WS02**

Sheet 1 of 1

Project Name: ALDI HOLBEACH	Project No. GRO-21400	Co-ords: -	Hole Type WS
Location: HOLBEACH		Level:	Scale 1:25
Client: ALDI STORES LIMTED		Dates: 25/01/2022 -	Logged By CJH

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.05	ES		0.10			MADE GROUND: Tarmac.
		0.30	ES					MADE GROUND: Pale brown very sandy angular to subangular fine to coarse gravel of sandstone and limestone. Sand is coarse.
					0.50			Very soft orange mottled brown grey very sandy CLAY. Sand is fine.
		1.00	D					
	▼	1.20		N=2 (1,0/1,0,1,0)				
		2.00	D					
		2.00		N=0 (0,0/0,0,0,0)				
		3.00	D					
		3.00		N=0 (0,0/0,0,0,0)				
		4.00	D					
		4.00		N=0 (0,0/0,0,0,0)				
					4.45			End of borehole at 4.45 m

1
2
3
4
5

Remarks

1. Location cleared using hand held CAT scanner. 2. Hand dug pit to 1.20m bgl. 3. Groundwater encountered at 1.20m bgl. 4. Hole backfilled with arisings.

Borehole Log

GROUNDTECH CONSULTING

Borehole No. **WS03**

Sheet 1 of 1

Project Name: ALDI HOLBEACH	Project No. GRO-21400	Co-ords: -	Hole Type WS
Location: HOLBEACH		Level:	Scale 1:25
Client: ALDI STORES LIMTED		Dates: 25/01/2022 -	Logged By CJH

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.10			MADE GROUND: Tarmac.
		0.30	ES					MADE GROUND: Pale brown very sandy angular to subangular fine to coarse gravel of sandstone and limestone. Sand is coarse.
		0.60	ES		0.70			
	▼	1.00	D					Very soft brown grey very sandy CLAY. Sand is fine.
		1.20		N=4 (1,0/1,1,1,1)				
		2.00	D					
		2.00		N=0 (0,0/0,0,0,0)				
		3.00	D					
		3.00		N=0 (0,0/0,0,0,0)				
		4.00	D					
		4.00		N=0 (0,0/0,0,0,0)				
					4.45			End of borehole at 4.45 m

1 2 3 4 5

Remarks

1. Location cleared using hand helf CAT scanner. 2. Hand dug pit to 1.20m bgl. 3. Groundwater encountered at 1.10m bgl. 4. Hole backfilled with arisings.

Borehole Log

GROUNDTECH CONSULTING

Borehole No. **WS04**

Sheet 1 of 1

Project Name: ALDI HOLBEACH	Project No. GRO-21400	Co-ords: -	Hole Type WS
Location: HOLBEACH		Level:	Scale 1:25
Client: ALDI STORES LIMTED		Dates: 25/01/2022 -	Logged By CJH

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.10			MADE GROUND: Tarmac.
		0.30	ES					MADE GROUND: Pale brown very sandy angular to subangular fine to coarse gravel of sandstone and limestone. Sand is coarse.
					0.50			Very soft brown grey very sandy CLAY. Sand is fine.
	▼	1.00	D					
		1.20		N=3 (1,1/1,1,1,0)				
		2.00	D					
		2.00		N=0 (1,0/0,0,0,0)				
		3.00	D					
		3.00		N=0 (0,0/0,0,0,0)				
		4.00	D					
		4.00		N=0 (0,0/0,0,0,0)				
					4.45			End of borehole at 4.45 m

1 2 3 4 5

Remarks

1. Location cleared using hand held CAT scanner. 2. Hand dug pit to 1.20m bgl. 3. Groundwater encountered at 1.00m bgl. 4. Hole backfilled with arisings.

Borehole Log

GROUNDTECH CONSULTING

Borehole No. **WS05**

Sheet 1 of 1

Project Name: ALDI HOLBEACH	Project No. GRO-21400	Co-ords: -	Hole Type WS
Location: HOLBEACH		Level:	Scale 1:25
Client: ALDI STORES LIMTED		Dates: 25/01/2022 -	Logged By CJH

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.10			MADE GROUND: Tarmac.
		0.20	ES					MADE GROUND: Pale brown very sandy angular to subangular fine to coarse gravel of sandstone and limestone. Sand is coarse.
					0.50			Very soft orange mottled brown grey very sandy CLAY. Sand is fine.
		1.00	D					
		1.20		N=0 (1,1/0,0,0,0)				
	▼							
		2.00 2.00	D	N=0 (0,0/0,0,0,0)				
		3.00 3.00	D	N=0 (1,0/0,0,0,0)				
		4.00 4.00	D	N=0 (0,0/0,0,0,0)				
					4.45			End of borehole at 4.45 m

1
2
3
4
5

Remarks

1. Location cleared using hand held CAT scanner. 2. Hand dug pit to 1.20m bgl. 3. Groundwater encountered at 1.50m bgl. 4. Hole backfilled with arisings.

Borehole Log

GROUNDTECH CONSULTING

Borehole No. **WS06**

Sheet 1 of 1

Project Name: ALDI HOLBEACH	Project No. GRO-21400	Co-ords: -	Hole Type WS
Location: HOLBEACH		Level:	Scale 1:25
Client: ALDI STORES LIMTED		Dates: 26/01/2022 -	Logged By CJH

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.10			MADE GROUND: Degraded tarmac.
		0.30	ES					MADE GROUND: Pale brown very sandy angular to subangular fine to coarse gravel of sandstone and limestone. Sand is coarse.
					0.50			Very soft orange brown very sandy CLAY. Sand is fine.
		1.00	D					
		1.20		N=4 (1,0/1,1,1,1)				
	▼							
		2.00	D					
		2.00		N=0 (0,0/0,0,0,0)				
		3.00	D					
		3.00		N=0 (0,0/0,0,0,0)				
								Becoming soft at 3.50m bgl.
		4.00	D					
		4.00		N=0 (0,0/0,0,0,0)				
					4.45			End of borehole at 4.45 m

Remarks

1. Location cleared using hand held CAT scanner. 2. Hand dug pit to 1.20m bgl. 3. Groundwater encountered at 1.50m bgl. 4. Monitoring standpipe installed to 4.00m bgl (1.00m plain, 3.00m slotted).

Borehole Log

GROUNDTECH CONSULTING

Borehole No. **WS07** Sheet 1 of 1

Project Name: ALDI HOLBEACH	Project No. GRO-21400	Co-ords: -	Hole Type WS
Location: HOLBEACH		Level:	Scale 1:25
Client: ALDI STORES LIMTED		Dates: 26/01/2022 -	Logged By CJH

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.10	ES		0.15			MADE GROUND: Light brown grey very gravelly fine to coarse sand. Gravel is angular to subangualr fine to coarse of mixed lithologies including plastic, concrete and metal fragments.
		0.40	ES					MADE GROUND: Pale brown very sandy angular to subangular fine to coarse gravel of sandstone and limestone. Sand is coarse.
	▼				0.60			Very soft brown grey very sandy CLAY. Sand is fine.
		1.00	D					
		1.20		N=4 (1,1/1,1,1,1)				
		2.00	D					
		2.00		N=0 (0,0/0,0,0,0)				
		3.00	D					
		3.00		N=0 (1,1/0,0,0,0)				
		4.00	D					
		4.00		N=0 (0,0/0,0,0,0)				
					4.45			End of borehole at 4.45 m

1 2 3 4 5

Remarks

1. Location cleared using hand held CAT scanner. 2. Hand dug pit to 1.20m bgl. 3. Groundwater encountered at 0.80m bgl. 4. Hole backfilled with arisings.

Borehole Log

GROUNDTECH CONSULTING

Borehole No. **WS08** Sheet 1 of 1

Project Name: ALDI HOLBEACH	Project No. GRO-21400	Co-ords: -	Hole Type WS
Location: HOLBEACH		Level:	Scale 1:25
Client: ALDI STORES LIMTED		Dates: 26/01/2022 -	Logged By CJH

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.10	ES		0.05			MADE GROUND: Light brown grey very gravelly fine to coarse sand. Gravel is angular to subangualr fine to coarse of mixed lithologies including plastic, concrete and metal fragments.
					0.20			MADE GROUND: Black ashy angular to subangular fine to coarse gravel of limestone. Moderate hydrocarbon odour present.
		0.50	D					MADE GROUND: Pale brown very sandy angular to subangular fine to coarse gravel of sandstone and limestone. Sand is coarse.
					0.70			Very soft orange brown very sandy CLAY. Sand is fine.
		1.00	D					
		1.20		N=2 (1,0/1,0,0,1)				
		2.00	D					
		2.00		N=2 (0,1/1,0,1,0)				
		3.00	D					
		3.00		N=1 (0,0/1,0,0,0)				
		4.00	D					
		4.00		N=0 (0,0/0,0,0,0)				
					4.45			End of borehole at 4.45 m

1 2 3 4 5

Remarks

1. Location cleared using hand held CAT scanner. 2. Hand dug pit to 1.20m bgl. 3. Groundwater encountered at 0.90m bgl. 4. Monitoring standpipe installed to 4.00m bgl (1.00m plain, 3.00m slotted).

Borehole Log

GROUNDTECH CONSULTING

Borehole No. **WS09** Sheet 1 of 1

Project Name: ALDI HOLBEACH	Project No. GRO-21400	Co-ords: -	Hole Type WS
Location: HOLBEACH		Level:	Scale 1:25
Client: ALDI STORES LIMTED		Dates: 26/01/2022 -	Logged By CJH

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.10			MADE GROUND: Tarmac.
		0.30	ES					MADE GROUND: Pale brown very sandy angular to subangular fine to coarse gravel of sandstone and limestone. Sand is coarse.
					0.60			Very soft orange mottled grey brown very sandy CLAY. Sand is fine.
	▼	1.00	D					
		1.20		N=2 (0,1/0,1,1,0)				
		2.00	D					
		2.00		N=2 (1,0/0,1,0,1)				
		3.00	D					
		3.00		N=1 (0,0/0,0,0,1)				
		4.00	D					
		4.00		N=0 (0,0/0,0,0,0)				
					4.45			End of borehole at 4.45 m

1
2
3
4
5

Remarks

1. Location cleared using hand held CAT scanner. 2. Hand dug pit to 1.20m bgl. 3. Groundwater encountered at 1.10m bgl. 4. Hole backfilled with arisings.

Borehole Log

GROUNDTECH CONSULTING

Borehole No. **WS10**

Sheet 1 of 1

Project Name: ALDI HOLBEACH	Project No. GRO-21400	Co-ords: -	Hole Type WS
Location: HOLBEACH		Level:	Scale 1:25
Client: ALDI STORES LIMTED		Dates: 26/01/2022 -	Logged By CJH

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.10			MADE GROUND: Degraded tarmac.
		0.20	ES					MADE GROUND: Pale brown very sandy angular to subangular fine to coarse gravel of sandstone and limestone. Sand is coarse.
					0.50			Very soft brown grey very sandy CLAY. Sand is fine.
		1.00	D					
		1.20		N=4 (1,1/1,1,1,1)				
	▼							
		2.00	D					
		2.00		N=1 (1,0/0,1,0,0)				
		3.00	D					
		3.00		N=0 (0,0/0,0,0,0)				
		4.00	D					
		4.00		N=0 (1,0/0,0,0,0)				
					4.45			End of borehole at 4.45 m

1
2
3
4
5

Remarks

1. Location cleared using hand helf CAT scanner. 2. Hand dug pit to 1.20m bgl. 3. Groundwater encountered at 1.50m bgl. 4. Hole backfilled with arisings.

Borehole Log

GROUNDTECH CONSULTING

Borehole No. **WS11**

Sheet 1 of 1

Project Name: ALDI HOLBEACH	Project No. GRO-21400	Co-ords: -	Hole Type WS
Location: HOLBEACH		Level:	Scale 1:25
Client: ALDI STORES LIMTED		Dates: 27/01/2022 -	Logged By CJH

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.10			MADE GROUND: Tarmac.
		0.30	ES					MADE GROUND: Pale brown very sandy angular to subangular fine to coarse gravel of sandstone and limestone. Sand is coarse.
					0.50			Very soft brown grey very sandy CLAY. Sand is fine.
	▼	1.00	D					
		1.20		N=4 (1,1/1,1,1,1)				
		2.00	D					
		2.00		N=1 (1,0/0,1,0,0)				
		3.00	D					
		3.00		N=0 (0,0/0,0,0,0)				
		4.00	D					
		4.00		N=0 (0,0/0,0,0,0)				
					4.45			End of borehole at 4.45 m

1
2
3
4
5

Remarks

1. Location cleared using hand helf CAT scanner. 2. Hand dug pit to 1.20m bgl. 3. Groundwater encountered at 1.00m bgl. 4. Hole backfilled with arisings.

Borehole Log

GROUNDTECH CONSULTING

Borehole No. **WS12** Sheet 1 of 1

Project Name: ALDI HOLBEACH	Project No. GRO-21400	Co-ords: -	Hole Type WS
Location: HOLBEACH		Level:	Scale 1:25
Client: ALDI STORES LIMTED		Dates: 27/01/2022 -	Logged By CJH

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.30	ES		0.20			MADE GROUND: Grass over brown very gravelly sandy topsoil. Gravel is angular to subangular fine to coarse of mixed lithologies including concrete, plastic and wood. Sand is fine to coarse.
					0.35			MADE GROUND: Black ashy angular to subangular fine to coarse gravel of limestone. Moderate hydrocarbon odour present.
					0.50			MADE GROUND: Concrete.
								End of borehole at 0.50 m

1 2 3 4 5

Remarks

1. Location cleared using hand helf CAT scanner. 2. Hand dug pit to 0.50m bgl. 3. Concrete obstruction encountered within three locations. 4. Hole location terminated.

Borehole Log

GROUNDTECH CONSULTING

Borehole No. **WS13**

Sheet 1 of 1

Project Name: ALDI HOLBEACH	Project No. GRO-21400	Co-ords: -	Hole Type WS
Location: HOLBEACH		Level:	Scale 1:25
Client: ALDI STORES LIMTED		Dates: 27/01/2022 -	Logged By CJH

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.30	ES		0.50			MADE GROUND: Grass over brown very gravelly sandy topsoil. Gravel is angular to subangular fine to coarse of mixed lithologies including concrete, plastic and wood. Sand is fine to coarse.
		1.00	D					Very soft brown grey very sandy CLAY. Sand is fine.
	▼	1.20		N=1 (1,0/1,0,0,0)				
		2.00	D					
		2.00		N=0 (0,0/0,0,0,0)				
		3.00	D					
		3.00		N=0 (1,1/0,0,0,0)				
		4.00	D					
		4.00		N=0 (0,0/0,0,0,0)				
					4.45			End of borehole at 4.45 m

1
2
3
4
5

Remarks

1. Location cleared using hand helf CAT scanner. 2. Hand dug pit to 1.20m bgl. 3. Groundwater encountered at 1.30m bgl. 4. Monitoring standpipe installed to 4.00m bgl (1.00m plain, 3.00m slotted).

Borehole Log

GROUNDTECH CONSULTING

Borehole No. **WS14**

Sheet 1 of 1

Project Name: ALDI HOLBEACH	Project No. GRO-21400	Co-ords: -	Hole Type WS
Location: HOLBEACH		Level:	Scale 1:25
Client: ALDI STORES LIMTED		Dates: 27/01/2022 -	Logged By CJH

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.30			MADE GROUND: Heavily degraded tarmac recovered as angular to subangular fine to medium gravel of tarmac.
		0.50	ES		0.60			MADE GROUND: Pale brown very sandy angular to subangular fine to coarse gravel of sandstone and limestone. Sand is coarse.
	▼	1.00	ES					Very soft brown grey very sandy CLAY. Sand is fine.
		1.20		N=2 (1,0/1,0,1,0)				
		2.00 2.00	D	N=1 (0,1/0,0,1,0)				
		3.00 3.00	D	N=0 (1,0/0,0,0,0)				
		4.00 4.00	D	N=1 (0,0/1,0,0,0)				
					4.45			End of borehole at 4.45 m

1 2 3 4 5

Remarks

1. Location cleared using hand helf CAT scanner. 2. Hand dug pit to 1.20m bgl. 3. Groundwater encountered at 0.90m bgl. 4. Monitoring standpipe installed to 4.00m bgl (1.00m plain, 3.00m slotted).

Borehole Log

GROUNDTECH CONSULTING

Borehole No. **WS15**

Sheet 1 of 1

Project Name: ALDI HOLBEACH	Project No. GRO-21400	Co-ords: -	Hole Type WS
Location: HOLBEACH		Level:	Scale 1:25
Client: ALDI STORES LIMTED		Dates: 27/01/2022 -	Logged By CJH

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.30	ES		0.40			MADE GROUND: Grass over brown very gravelly sandy topsoil. Gravel is angular to subangular fine to coarse of mixed lithologies including concrete, plastic and wood. Sand is fine to coarse.
	▼	1.00	D					Very soft brown grey very sandy CLAY. Sand is fine.
		1.20		N=1 (1,1/0,0,0,1)				
		2.00 2.00	D	N=1 (0,0/1,0,0,0)				
		3.00 3.00	D	N=0 (0,0/0,0,0,0)				
		4.00 4.00	D	N=0 (1,0/0,0,0,0)				
					4.45			End of borehole at 4.45 m

1 2 3 4 5

Remarks

1. Location cleared using hand helf CAT scanner. 2. Hand dug pit to 1.20m bgl. 3. Groundwater encountered at 1.00m bgl. 4. Hole backfilled with arisings.

Trial Pit Log

GROUNDTECH CONSULTING

Trialpit No **SuDS1**

Sheet 1 of 1

Project Name: ALDI HOLBEACH	Project No. GRO-21400	Co-ords: - Level:	Date 27/01/2022
Location: HOLBEACH		Dimensions (m): 1.8 × 0.8, Depth 2.60	Scale 1:25
Client: ALDI STORES LIMTED			Logged CJH

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.10			MADE GROUND: Tarmac.
	0.30	ES					MADE GROUND: Pale brown very sandy angular to subangular fine to coarse gravel of sandstone and limestone. Sand is coarse.
				0.40			Very soft brown grey very sandy CLAY. Sand is fine.
▼	1.00	D					
	2.00	D					
				2.60			End of pit at 2.60 m

1 2 3 4 5

Remarks: 1. Location cleared using hand held CAT scanner. 2. Trial pit excavated to 2.60m bgl. 3. Groundwater encountered at 1.20m bgl. 4. Soil percolation test undertaken. 5. Hole backfilled with arisings.

Stability: Unstable

GROUNDTECH CONSULTING

Trial Pit Log

Trialpit No
SuDS2
Sheet 1 of 1

Project Name: ALDI HOLBEACH	Project No. GRO-21400	Co-ords: - Level:	Date 27/01/2022
Location: HOLBEACH		Dimensions (m): Depth 1.80	Scale 1:25
Client: ALDI STORES LIMTED		1.9 × 0.9	Logged CJH

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	0.20	ES		0.30			MADE GROUND: Grass over brown very gravelly sandy topsoil. Gravel is angular to subangular fine to coarse of mixed lithologies including concrete, plastic and wood. Sand is fine to coarse.
▼	0.80	ES					MADE GROUND: Black orange demolition material comprising brick, roofing tiles. Black free phase hydrocarbon odorous liquid present at strata.
	1.20	ES		1.30			Very soft brown grey very sandy CLAY. Sand is fine.
	1.60	D		1.80			End of pit at 1.80 m

Remarks: 1. Location cleared using hand held CAT scanner. 2. Trial pit excavated to 1.80m bgl. 3. Perched water encountered at 0.60m bgl. 4. Trial pit terminated due to contamination encountered. 5. Hole backfilled with arisings.

Stability: Unstable

Trial Pit Log

GROUNDTECH CONSULTING

Trialpit No **SuDS2A**

Sheet 1 of 1

Project Name: ALDI HOLBEACH	Project No. GRO-21400	Co-ords: - Level:	Date 27/01/2022
Location: HOLBEACH		Dimensions (m): 1.7 × 1 Depth 2.70	Scale 1:25
Client: ALDI STORES LIMTED			Logged CJH

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	ES					MADE GROUND: Grass over brown very gravelly sandy topsoil. Gravel is angular to subangular fine to coarse of mixed lithologies including concrete, plastic and wood. Sand is fine to coarse.
				0.40			Very soft brown grey very sandy CLAY. Sand is fine.
▼	1.00	D					
	2.00	D					
				2.70			End of pit at 2.70 m

1 2 3 4 5

Remarks: 1. Location cleared using hand held CAT scanner. 2. Trial pit excavated to 2.70m bgl. 3. Groundwater encountered at 1.10m bgl. 4. Soil percolation test undertaken. 5. Hole backfilled with arisings.

Stability: Unstable

Borehole Log

GROUNDTECH CONSULTING

Borehole No. **CP1** Sheet 1 of 3

Project Name: ALDI HOLBEACH	Project No. GRO-21400	Co-ords: -	Hole Type CP
Location: HOLBEACH		Level:	Scale 1:50
Client: ALDI STORES LIMTED		Dates: 24/01/1900 - 25/01/2022	Logged By CJH

Well	Water Strikes	Samples and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
					0.05			MADE GROUND: Tarmac.
					0.20			MADE GROUND: Pale brown very sandy angular to subangular fine to coarse gravel of sandstone and limestone. Sand is coarse.
		0.50 - 0.60	D		0.30			MADE GROUND: Concrete.
								Very soft brown grey very sandy very CLAY. Sand is fine.
		1.20		N=4 (0,1/1,1,1,1)				
		1.20 - 1.65	D					
		1.70 - 1.80	D					
		2.00		N=4 (0,1/1,1,1,1)				
		2.00 - 2.45	D					
		2.50 - 2.60	D					
		3.00		N=4 (1,1/1,1,1,1)				
		3.00 - 3.45	D					
		3.50 - 3.60	D					
		4.00		N=6 (1,1/1,1,2,2)				
		4.00 - 4.45	D					
		4.50 - 4.60	D					
		5.00		N=5 (1,1/1,1,1,2)	5.00			
		5.00 - 5.45	D					Loose grey very clayey very silty fine to medium SAND.
		6.00 - 6.10	D					
		6.50		N=7 (0,1/1,2,2,2)				
		6.50 - 6.95	D					
		7.50 - 7.60	D					
		8.00		N=7 (1,2/1,2,2,2)				
		8.00 - 8.45	D					
		9.00 - 9.10	D					
		9.50		N=8 (1,2/2,2,2,2)				
		9.50 - 9.95	D					

Continued on next sheet

Remarks

1. Location cleared using hand held CAT scanner. 2. Hand dug pit to 1.20m bgl. 3. Groundwater encountered at 1.10m rising to 1.00m bgl after 20 minutes and encountered at 9.00m rising to 8.20m bgl after 20 minutes. 4. Monitoring standpipe installed to 6.00m bgl (3.00m plain, 3.00m slotted).

Borehole Log

GROUNDTECH CONSULTING

Borehole No. **CP1**

Sheet 2 of 3

Project Name: ALDI HOLBEACH	Project No. GRO-21400	Co-ords: -	Hole Type CP
Location: HOLBEACH		Level:	Scale 1:50
Client: ALDI STORES LIMTED		Dates: 24/01/1900 - 25/01/2022	Logged By CJH

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		10.50 - 10.60	D					
		11.00		N=10 (1,2/2,2,3,3)				
		11.00 - 11.45	D					
		12.00 - 12.10	D		12.00			
		12.50		N=14 (2,2/2,3,4,5)				Medium dense clayey gravelly very silty fine Sand. Gravel is angular to subangular fine to medium of mytilidae shells.
		12.50 - 12.95	D					
		13.50 - 13.60	D					
		14.00		N=18 (2,3/4,4,5,5)	13.80			Firm to stiff brown gravelly CLAY. Gravel is angular to subrounded fine to medium of mixed lithologies including chalk.
		14.00 - 14.45	D					
		15.00		N=26 (3,4/5,6,7,8)				
		15.00 - 15.45	D					
		16.00 - 16.10	D					
		16.50		N=22 (3,4/5,5,6,6)				
		16.50 - 16.65	D					
		17.50 - 17.60	D					
		18.00		N=17 (3,4/4,4,4,5)				
		18.00 - 18.45	D		18.20			Extremely weak grey MUDSTONE residually weathered recovered as stiff grey gravelly silty clay. Gravel is angular to subangular fine to coarse of mixed lithologies including chalk.
		19.00 - 19.10	D					

Continued on next sheet

Remarks

1. Location cleared using hand held CAT scanner. 2. Hand dug pit to 1.20m bgl. 3. Groundwater encountered at 1.10m rising to 1.00m bgl after 20 minutes and encountered at 9.00m rising to 8.20m bgl after 20 minutes. 4. Monitoring standpipe installed to 6.00m bgl (3.00m plain, 3.00m slotted).

Borehole Log

GROUNDTECH CONSULTING		Borehole No. **CP1** Sheet 3 of 3
Project Name: ALDI HOLBEACH	Project No. GRO-21400	Co-ords: - / Hole Type CP
Location: HOLBEACH		Level: / Scale 1:50
Client: ALDI STORES LIMTED		Dates: 24/01/1900 - 25/01/2022 / Logged By CJH

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		20.00		N=50 (7,9/50 for 280mm)				
		20.00 - 20.45	D					
		21.00 - 21.10	D					
		21.50 - 21.95	U					
		22.50 - 22.60	D					
		23.00 - 23.45	U					
		24.00 - 24.10	D					
		25.00	D		25.00			End of borehole at 25.00 m
		25.00		N=50 (9,13/50 for 228mm)				

21 22 23 24 25 26 27 28 29 30

Remarks

1. Location cleared using hand held CAT scanner. 2. Hand dug pit to 1.20m bgl. 3. Groundwater encountered at 1.10m rising to 1.00m bgl after 20 minutes and encountered at 9.00m rising to 8.20m bgl after 20 minutes. 4. Monitoring standpipe installed to 6.00m bgl (3.00m plain, 3.00m slotted).

Borehole Log

GROUNDTECH CONSULTING

Borehole No. **CP2** Sheet 1 of 3

Project Name: ALDI HOLBEACH	Project No. GRO-21400	Co-ords: -	Hole Type CP
Location: HOLBEACH		Level:	Scale 1:50
Client: ALDI STORES LIMTED		Dates: 25/01/2022 - 26/01/2022	Logged By CJH

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.10			MADE GROUND: Tarmac.
					0.30			MADE GROUND: Pale brown very sandy angular to subangular fine to coarse gravel of sandstone and limestone. Sand is coarse.
		0.50	ES					MADE GROUND: Soft greenish grey silty sandy slightly gravelly clay. Gravel is angular to subangular fine to coarse of mixed lithologies. Sand is fine to coarse.
		0.50 - 0.60	D					
		1.00	ES					
		1.20		N=2 (1,0/1,0,0,1)				
		1.20 - 1.65	D					
		1.70 - 1.80	D					
		2.00	ES					
		2.00 - 2.45	U					
		2.50 - 2.60	D		2.50			MADE GROUND: Concrete. (Suspected former drain).
					2.80			Very soft extremely low strength brown grey very sandy CLAY. Sand is fine.
		3.00		N=4 (1,1/1,1,1,1)				
		3.00 - 3.45	D					
		3.50 - 3.60	D					
		4.00 - 4.45	U					
		4.50 - 4.60	D					
		5.00		N=4 (1,1/1,1,1,1)				
		5.00 - 5.45	D					
		6.00 - 6.10	D					
		6.50		N=4 (1,1/1,1,1,1)				
		6.50 - 6.95	D					
		7.50 - 7.60	D					
		8.00 - 8.45	U					
					8.70			Medium dense clayey gravelly fine to coarse Sand. Gravel is angular to subangular fine to medium of mixed lithologies.
		9.00 - 9.10	D					
		9.50		N=11 (1,2/2,2,3,4)				
		9.50 - 9.95	D					
								Continued on next sheet

Remarks

1. Location cleared using hand held CAT scanner. 2. Hand dug pit to 1.20m bgl. 3. Groundwater encountered at 2.50m rising to 1.40m bgl after 20 minutes. 4. Monitoring standpipe installed to 6.00m bgl (3.00m plain, 3.00m slotted).

Borehole Log

GROUNDTECH CONSULTING

Borehole No. **CP2** Sheet 2 of 3

Project Name: ALDI HOLBEACH	Project No. GRO-21400	Co-ords: -	Hole Type CP
Location: HOLBEACH		Level:	Scale 1:50
Client: ALDI STORES LIMTED		Dates: 25/01/2022 - 26/01/2022	Logged By CJH

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		10.50 - 10.60	D					
		11.00		N=8 (1,1/1,2,2,3)				*Becoming loose at 11.0m bgl.*
		11.00 - 11.45	D					
		12.00 - 12.10	D					
		12.50		N=10 (1,2/2,2,3,3)				
		12.50 - 12.95	D					
		13.50 - 13.60	D		13.50			Medium dense gravelly clayey very silty fine Sand. Gravel is angular to subangular fine to medium of mixed lithologies including mytilidae shells.
		14.00		N=15 (1,2/3,3,4,5)				
		14.00 - 14.45	D					
					14.40			Firm to stiff high strength brown gravelly CLAY. Gravel is angular to subrounded fine to medium of mixed lithologies including chalk.
		15.00 - 15.10	D					
		15.50 - 15.95	U					
		16.50 - 16.60	D					
		17.00		N=25 (2,4/5,6,6,8)				
		17.00 - 17.45	D					
		18.00 - 18.10	D					
		18.50		N=32 (4,5/7,8,8,9)	18.40			Extremely weak grey MUDSTONE residually weathered recovered as stiff grey gravelly silty clay. Gravel is angular to subangular fine to coarse of mixed lithologies including chalk.
		18.50 - 18.95	D					
		19.50 - 19.60	D					
		20.00 - 20.45	U					

Continued on next sheet

Remarks

1. Location cleared using hand held CAT scanner. 2. Hand dug pit to 1.20m bgl. 3. Groundwater encountered at 2.50m rising to 1.40m bgl after 20 minutes. 4. Monitoring standpipe installed to 6.00m bgl (3.00m plain, 3.00m slotted).

Borehole Log

GROUNDTECH CONSULTING

Borehole No. **CP2** Sheet 3 of 3

Project Name: ALDI HOLBEACH	Project No. GRO-21400	Co-ords: -	Hole Type CP
Location: HOLBEACH		Level:	Scale 1:50
Client: ALDI STORES LIMTED		Dates: 25/01/2022 - 26/01/2022	Logged By CJH

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		21.00 - 21.10	D					
		21.50		N=33 (2,4/5,8,9,11)				
		21.50 - 21.95	D					
		22.50 - 22.60	D					
		23.00		N=50 (9,13/50 for 231mm)				
		23.00 - 23.45	D					
		24.00 - 24.10	D					
		25.00		N=50 (10,15/50 for 196mm)	25.00			End of borehole at 25.00 m
		25.00 - 25.45	D					

21 22 23 24 25 26 27 28 29 30

Remarks

1. Location cleared using hand held CAT scanner. 2. Hand dug pit to 1.20m bgl. 3. Groundwater encountered at 2.50m rising to 1.40m bgl after 20 minutes. 4. Monitoring standpipe installed to 6.00m bgl (3.00m plain, 3.00m slotted).

Borehole Log

GROUNDTECH CONSULTING

Borehole No. **CP3**

Sheet 1 of 3

Project Name: ALDI HOLBEACH	Project No. GRO-21400	Co-ords: -	Hole Type CP
Location: HOLBEACH		Level:	Scale 1:50
Client: ALDI STORES LIMTED		Dates: 27/01/2022 -	Logged By CJH

Well	Water Strikes	Samples and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
					0.10			MADE GROUND: Tarmac.
					0.30			MADE GROUND: Pale brown very sandy angular to subangular fine to coarse gravel of sandstone and limestone. Sand is coarse.
		0.50	ES					Very soft brown grey CLAY. Sand is fine.
		0.50 - 0.60	D					
	▽	1.00	ES					
	▽	1.20		N=4 (1,0/1,1,1,1)				
	▽	1.20 - 1.65	D					
					1.50			Very soft brown grey very sandy CLAY. Sand is fine.
		1.70 - 1.80	D					
		2.00 - 2.10	D					
		2.50 - 2.60	D					
		3.00		N=4 (1,1/1,1,1,1)				
		3.00 - 3.45	D					
		3.50 - 3.60	D					
		4.00 - 4.45	U					
		4.50 - 4.60	D					
		5.00		N=4 (1,1/1,1,1,1)				
		5.00 - 5.45	D					
		6.00 - 6.10	D					
		6.50 - 6.95	U					
	▽	7.50 - 7.60	D					
		8.00		N=4 (1,1/1,1,1,1)				
		8.00 - 8.45	D					
		9.00 - 9.10	D		9.00			Very loose grey very clayey very silty fine to medium SAND.
	▽	9.50		N=4 (1,1/1,1,1,1)				
	▽	9.50 - 9.95	D					
								Continued on next sheet

Remarks

1. Location cleared using hand held CAT scanner. 2. Hand dug pit to 1.20m bgl. 3. Groundwater encountered at 1.30m rising to 1.10m bgl after 20 minutes and encountered at 9.50m rising to 7.60m bgl after 20 minutes. 4. Monitoring standpipe installed to 6.00m bgl (3.00m plain, 3.00m slotted).

Borehole Log

GROUNDTECH CONSULTING

Borehole No. **CP3**

Sheet 2 of 3

Project Name: ALDI HOLBEACH	Project No. GRO-21400	Co-ords: -	Hole Type CP
Location: HOLBEACH		Level:	Scale 1:50
Client: ALDI STORES LIMTED		Dates: 27/01/2022 -	Logged By CJH

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		10.50 - 10.60	D					
		11.00		N=5 (1,0/1,1,1,2)				*Becoming loose from 11.0m bgl.*
		11.00 - 11.45	D					
		12.00 - 12.10	D					
		12.50		N=10 (1,2/2,2,3,3)				
		12.50 - 12.95	D		12.90			Medium dense clayey gravelly very silty fine Sand. Gravel is angular to subangular fine to medium of mytilidae shells.
		13.50 - 13.60	D					
		14.00		N=13 (1,1/2,3,4,4)	14.00			Firm to stiff extremely high strength brown gravelly CLAY. Gravel is angular to subrounded fine to medium of mixed lithologies including chalk.
		14.00 - 14.45	D					
		15.00 - 15.10	D					
		15.50 - 15.95	U					
		16.50 - 16.60	D					
		17.00		N=19 (2,3/4,4,5,6)				
		17.00 - 17.45	D					
		18.00 - 18.10	D					
		18.50		N=17 (2,3/3,4,4,6)				
		18.50 - 18.95	D					
		19.50 - 19.60	D					
		20.00		N=32 (4,6/7,8,8,9)	19.70			Extremely weak grey MUDSTONE residually

Continued on next sheet

Remarks

1. Location cleared using hand held CAT scanner. 2. Hand dug pit to 1.20m bgl. 3. Groundwater encountered at 1.30m rising to 1.10m bgl after 20 minutes and encountered at 9.50m rising to 7.60m bgl after 20 minutes. 4. Monitoring standpipe installed to 6.00m bgl (3.00m plain, 3.00m slotted).

Borehole Log

GROUNDTECH CONSULTING

Borehole No. **CP3** Sheet 3 of 3

Project Name: ALDI HOLBEACH	Project No. GRO-21400	Co-ords: -	Hole Type CP
Location: HOLBEACH		Level:	Scale 1:50
Client: ALDI STORES LIMTED		Dates: 27/01/2022 -	Logged By CJH

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		20.00 - 20.45	D					weathered recovered as stiff grey gravelly silty clay. Gravel is angular to subangular fine to coarse of mixed lithologies including chalk.
		21.00 - 21.10	D					
		21.50		N=48 (6,10/11,12,12,13)				
		21.50 - 21.95	D					
		22.50 - 22.60	D					
		23.00 - 23.10	D					
		24.00 - 24.10	D					
		25.00		N=50 (9,13/50 for 221mm)	25.00			End of borehole at 25.00 m
		25.00 - 25.45	D					

21 22 23 24 25 26 27 28 29 30

Remarks

1. Location cleared using hand held CAT scanner. 2. Hand dug pit to 1.20m bgl. 3. Groundwater encountered at 1.30m rising to 1.10m bgl after 20 minutes and encountered at 9.50m rising to 7.60m bgl after 20 minutes. 4. Monitoring standpipe installed to 6.00m bgl (3.00m plain, 3.00m slotted).