

								TrialPit	No
	wardell armstrong					Tr	rial Pit Log	TP0	4
•	511113613116							Sheet 1	of 1
Project Name:	School Ro	ad Flms	swell		ject No.		Co-ords: -	Date	
Name:	0011001110	, Eiiii		ВМ	11245		Level:	20/12/20	
Locatio	n: School Ro	oad, Elm	swell				Dimensions (m):	Scale 1:25	
Client:	Christchur	rch Land	and Estates Limi	ted			Depth	Logge	
ê e	Samp	oles & In Si	tu Testing	Depth	Level		2.20		
Water Strike	Depth	Туре	Results	(m)	(m)	Legend	Stratum Description		
							Ploughed dark brown sandy clay TOPSOIL with g flint and occasional brick.	ravel of	
									-
				0.60			Firm grey brown sandy CLAY with much gravel a cobbles of chalk and chert.	nd	
							cobbles of chalk and chert.		
									1 -
									2 -
				2.20			End of Pit at 2.20m		
									-
									3 -
									-
									4 -
									-
									5 -
D- : :	_{(S:} Trial pit d	ry and at	ahlo						
ĸemark	(S: mai più d	ıyanıu Si	.สมเษ.						
Stahility	<i>,</i> .							AG	25

								TrialPit No	
	wardell armstrong					Tr	rial Pit Log	TP05	
	armstrong						iai i it Log	Sheet 1 of 1	i
Proje	ct			Pro	ect No.		Co-ords: -	Date	
Name	ct School Ro e:	ad, Elm	nswell		11245		Level:	20/12/2016	
Locat	ion: School Ro	ad Flm	nswell				Dimensions	Scale	
							(m): Depth	1:25 Logged	
Client			d and Estates Limit	ed ———			3.50	Logged	
Water Strike			Situ Testing	Depth	Level	Legend	Stratum Description		
≥ છ	Depth	Туре	Results	(m)	(m)	V//XV//X	Ploughed dark brown sandy clay TOPSOIL with		
							flint and occasional brick.	g	-
									-
				0.50					_
				0.50			Medium dense orange brown slighly clayey silty with much gravel of chalk and chert.	SAND	-
									-
								1	=
								1	-
									-
									=
									-
									=
									-
									-
								2	-
									=
									-
									-
									=
									-
				2.80			Medium dense to dense grey range brown claye SAND with gravel and cobbles of chalk and cher		-
							SAIND WITH GLAVEL AND CODDIES OF CHAIR AND CHEF	3	-
									-
									-
				3.50			End of Pit at 3.50m		-
								4 :	-
									-
								4	_
									-
									-
									-
									-
									-
									-
								5	_
Rema	arks: Trial pit d	l ry and s	stable.						_
		,						A G G	
Stabil	litv [.]							AGS	

	wardell armstrong					Tr	rial Pit Log	TrialPit No TP06
Proje Name Locat	ct School Ro				ect No. 11245		Co-ords: - Level: Dimensions (m):	Sheet 1 of 1 Date 20/12/2016 Scale 1:25
Client	t: Christchu	rch Land	and Estates Lir	mited			Depth 3.20	Logged
Water Strike	-	oles & In Sit		Depth	Level	Legend	Stratum Description	
X S	Depth	Туре	Results	0.70	(m)		Ploughed dark brown sandy clay TOPSOIL with flint and occasional brick. Medium dense grey brown very clayay silty SAN gravel of chalk and chert.	D with
				1.10			Firm dark grey silty sandy CLAY with gravel and of chalk and chert.	cobbles
				1.90		**************************************	Stiff dark grey silty sandy CLAY with gravel and of chalk and chert.	cobbles 2
				3.20			End of Pit at 3.20m	4
Rema	arks: Trial pit d avoid lan	ry and st	able. Land drai	in at 1.2m	unbroke	n in grave	el surround approx. N-S. Trial pit moved to	5

								TrialPit	No
	wardell armstrong					Tr	rial Pit Log	TP07	7
	8							Sheet 1	of 1
Project	School Road	Flms	vell		ect No.		Co-ords: -	Date	
Name:		, LIIIIO		BM1	11245		Level:	20/12/20	
Locatio	n: School Road	, Elms	well				Dimensions (m):	Scale 1:25	
Client:	Christchurch	Land a	and Estates Lir	mited			Depth	Logge	
E e	Samples	& In Situ	ı Testing	Depth	Level		2.70		
Water	Depth T	уре	Results	(m)	(m)	Legend	Stratum Description		
Remark	s: Trial pit dry a	and sta	ble.	2.30			Ploughed dark brown sandy clay TOPSOIL with flint and occasional brick. Medium dense to dense brown very clayey sand of chalk and chert with much cobbles of chalk are compared to the cobbles of chalk are said of price and cobbles of chalk and chert. Stiff grey brown silty sandy gravelly CLAY with many gravel and cobbles of chalk and chert.	ly gravel nd chert.	2 — 3 — 5 — 5 — 5 — 5 — 5 — 5 — 5 — 5 — 5
Remark	s: Trial pit dry a	and sta	ble.						

	wardell armstrong					Tr	rial Pit Log	TrialPit N	
							_	Sheet 1 o	of 1
Proje Name	ct School Ro	oad, Elm	swell		ect No.		Co-ords: -	Date	
				ВМ1	1245		Level: Dimensions	20/12/201 Scale	16
Locat	ion: School Ro	oad, Elm	swell				(m):	1:25	
Clien	t: Christchur	rch Land	d and Estates Lim	ited			Depth 3.30	Logged	
Water Strike	Samp	oles & In S	Situ Testing	Depth	Level	1			
Wa	Depth	Туре	Results	(m)	(m)	Legend	Stratum Description		
				0.50			Ploughed dark brown sandy clay TOPSOIL wi flint and occasional brick. MADE GROUND: Dark brown silty clayey sar gravel and cobbles of brick, concrete and son	nd with	1 —
				1.40			MADE GROUND: Soft black brown silty sand with wood, brick, tile, concrete, metal and sec brick wall.	y wet clay tions of	2 -
				2.60			Stiff dark grey silty sandy CLAY with gravel of chert.	chalk and	3 -
				3.30			End of Pit at 3.30m		4 —
Rema	arks: Much coll	lapse of	wet soft made gr	ound to 2	.6m Nat	cural clay	noted as stable.		

								TrialPit No	0
	wardell armstrong					Tr	rial Pit Log	TP09	
•	difficitions					• •	141 1 12 29	Sheet 1 of	f 1
Project	School Ro	ad Flm	swell	Proje	ect No.		Co-ords: -	Date	
Name:		, Liiii		BM1	1245		Level:	20/12/201	6
Locatio	n: School Ro	ad, Elm	swell				Dimensions (m):	Scale 1:25	
Client:	Christchur	ch Land	I and Estates Lin	nited			Depth	Logged	
in e	Samp	oles & In S	itu Testing	Depth	Level		2.20		
Water Strike	Depth	Туре	Results	(m)	(m)	Legend	Stratum Description		
				1.90			Ploughed dark brown sandy clay TOPSOIL with a flint and occasional brick. Soft to firm dark brown silty sandy CLAY with mu cobbles and gravel of chalk and chert. Stiff light grey very sandy silty clay with much gracobbles of chalk and chert. End of Pit at 2.20m	ch	2
Remarl	s: Trial pit d	ry and s	table.						

AGS

		_						TrialPit No
	wardell armstrong					Tr	rial Pit Log	TP10
	arristrong					• •	141111239	Sheet 1 of 1
Projed Name	ct School Ro	ad Elm	iewell	Proj	ect No.		Co-ords: -	Date
Name): 	au, Liiii		BM1	1245		Level:	20/12/2016
Locati	ion: School Ro	ad, Elm	swell				Dimensions (m):	Scale 1:25
Client	:: Christchur	ch Lanc	and Estates Lir	nited			Depth	Logged
<u> </u>		les & In S	itu Testing	Donth	Level		2.80	
Water Strike	Depth	Туре	Results	Depth (m)	(m)	Legend	Stratum Description	
N S	Depth	Туре	Results	0.40			Ploughed dark brown sandy clay TOPSOIL wif flint and occasional brick. MADE GROUND: Firm grey brown very sandy with much gravel of chalk and chert and some brick. Firm grey brown sandy gravelly CLAY with gra and chert. Stiff dark grey silty CLAY with much gravel of chert.	vel of chalk
D	ırks: Trial pit d	ry and a	tahla					
Lueuna	ii vo. Illai bit a	. , and S	CODIO.					

Projec	wardell armstrong	and Elme	wall	Proje	ect No.	Tr	rial Pit Log	TrialPit TP11 Sheet 1 Date	l of 1
Name:	on: School Ro			BM1	1245		Level: Dimensions	20/12/20 Scale	
Client:			and Estates Lin	nited			(m): Depth	1:25 Logge	d
	Samp	oles & In Situ	u Testing	Depth	Level	Legend	2.20 Stratum Description		
Water Strike Strike	Depth	Type	Results	0.40 1.20	Level (m)	Legend	Stratum Description Dark brown sandy very clayey TOPSOIL. Medium dense light grey brown very clayer SAND with gravel of chalk and chert. Stiff light grey slightly sandy CLAY with m chalk and chert. End of Pit at 2.20m	ey gravelly	1 — · · · · · · · · · · · · · · · · · ·
Pemai	·ks: Trial pit d	rv and sta	ahle						



								TrialPit No
	wardell armstrong					Tr	rial Pit Log	TP12
-	61111361-0118					• •		Sheet 1 of 1
Projed Name	ct School Ro	ad Flm	swell	Proj	ect No.		Co-ords: -	Date
Name	e:	, Z		BM1	1245		Level:	20/12/2016
Locati	ion: School Ro	ad, Elm	swell				Dimensions (m):	Scale 1:25
Client	:: Christchur	ch Land	and Estates Lir	mited			Depth 2.50	Logged
ke fe	Samp	les & In Si	tu Testing	Depth	Level	Ι		
Water Strike	Depth	Туре	Results	(m)	(m)	Legend	Stratum Description	
				1.20 1.80 2.50			Ploughed dark brown sandy clay TOPSOIL with flint and occasional brick. Medium dense light orange brown very clayey s gravelly SAND with gravel of chalk and chert. Medium dense to dense grey brown very clayey SAND with gravel of chalk and chert. Stiff grey silty sandy CLAY with much gravel of chert.	gravelly thalk and 2 -
Rema	arks: Trial pit d	ry and st	table.					5 -





Enviro+Geo Insight

Order Details

Date: 04/11/2022

Your ref: EMS 822302 1016779

Our Ref: EMS-822302_1057136

Site Details

Location: 598278 264005

Area: 3.77 ha

Authority: Mid Suffolk District Council



Summary of findings

p. 2 Aerial image

p. 8

OS MasterMap site plan

p.12 groundsure.com/insightuserguide



Grid ref: 598278 264005

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
<u>13</u>	<u>1.1</u>	Historical industrial land uses	0	1	6	26	-
<u>15</u>	<u>1.2</u>	<u>Historical tanks</u>	0	0	0	8	-
<u>15</u>	<u>1.3</u>	Historical energy features	0	0	1	0	-
16	1.4	Historical petrol stations	0	0	0	0	-
16	1.5	Historical garages	0	0	0	0	-
16	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
<u>17</u>	<u>2.1</u>	Historical industrial land uses	0	1	8	30	-
<u>19</u>	<u>2.2</u>	<u>Historical tanks</u>	0	0	0	10	-
<u>20</u>	<u>2.3</u>	Historical energy features	0	0	3	0	-
20	2.4	Historical petrol stations	0	0	0	0	-
20	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
21	3.1	Active or recent landfill	0	0	0	0	-
21	3.1	Active or recent landfill Historical landfill (BGS records)	0	0	0	0	-
							- - -
21	3.2	Historical landfill (BGS records)	0	0	0	0	
21	3.2	Historical landfill (BGS records) Historical landfill (LA/mapping records)	0	0	0	0	
21 22 22	3.2 3.3 3.4	Historical landfill (BGS records) Historical landfill (LA/mapping records) Historical landfill (EA/NRW records)	0 0	0 0	0 0	0 0	
21 22 22 22	3.2 3.3 3.4 3.5	Historical landfill (BGS records) Historical landfill (LA/mapping records) Historical landfill (EA/NRW records) Historical waste sites	0 0 0	0 0 0	0 0 0	0 0 0	
21 22 22 22 22	3.2 3.3 3.4 3.5 3.6	Historical landfill (BGS records) Historical landfill (LA/mapping records) Historical landfill (EA/NRW records) Historical waste sites Licensed waste sites	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	- - - - - - 500-2000m
21 22 22 22 22 22 22	3.2 3.3 3.4 3.5 3.6 3.7	Historical landfill (BGS records) Historical landfill (LA/mapping records) Historical landfill (EA/NRW records) Historical waste sites Licensed waste sites Waste exemptions	0 0 0 0 0	0 0 0 0	0 0 0 0 0	0 0 0 0	- - - - - 500-2000m
21 22 22 22 22 22 Page	3.2 3.3 3.4 3.5 3.6 3.7 Section	Historical landfill (BGS records) Historical landfill (LA/mapping records) Historical landfill (EA/NRW records) Historical waste sites Licensed waste sites Waste exemptions Current industrial land use	0 0 0 0 0 1	0 0 0 0 0	0 0 0 0 0 0 50-250m	0 0 0 0	- - - - - 500-2000m
21 22 22 22 22 22 Page	3.2 3.3 3.4 3.5 3.6 3.7 Section 4.1	Historical landfill (BGS records) Historical landfill (LA/mapping records) Historical landfill (EA/NRW records) Historical waste sites Licensed waste sites Waste exemptions Current industrial land use Recent industrial land uses	0 0 0 0 1 On site	0 0 0 0 0 0 0-50m	0 0 0 0 0 50-250m	0 0 0 0 0 0 250-500m	- - - - - 500-2000m
21 22 22 22 22 22 Page 24 25	3.2 3.3 3.4 3.5 3.6 3.7 Section 4.1 4.2	Historical landfill (BGS records) Historical landfill (LA/mapping records) Historical landfill (EA/NRW records) Historical waste sites Licensed waste sites Waste exemptions Current industrial land use Recent industrial land uses Current or recent petrol stations	0 0 0 0 1 On site	0 0 0 0 0 0-50m	0 0 0 0 0 50-250m	0 0 0 0 0 250-500m	- - - - - 500-2000m





25	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
26	4.7	Regulated explosive sites	0	0	0	0	-
26	4.8	Hazardous substance storage/usage	0	0	0	0	-
26	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
<u>26</u>	<u>4.10</u>	Licensed industrial activities (Part A(1))	0	0	0	4	-
27	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
27	4.12	Radioactive Substance Authorisations	0	0	0	0	-
<u>28</u>	4.13	<u>Licensed Discharges to controlled waters</u>	0	0	1	3	-
28	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
29	4.15	Pollutant release to public sewer	0	0	0	0	-
29	4.16	List 1 Dangerous Substances	0	0	0	0	-
29	4.17	List 2 Dangerous Substances	0	0	0	0	-
29	4.18	Pollution Incidents (EA/NRW)	0	0	0	0	-
29	4.19	Pollution inventory substances	0	0	0	0	-
30	4.20	Pollution inventory waste transfers	0	0	0	0	-
30	4.21	Pollution inventory radioactive waste	0	0	0	0	-
30 Page	4.21 Section	Pollution inventory radioactive waste Hydrogeology	On site	0 0-50m	0 50-250m	0 250-500m	- 500-2000m
			On site		50-250m		- 500-2000m
Page	Section	Hydrogeology	On site	0-50m	50-250m		- 500-2000m
Page <u>31</u>	Section 5.1	Hydrogeology Superficial aquifer	On site Identified (0-50m within 500m	50-250m		- 500-2000m
Page <u>31</u> <u>33</u>	Section <u>5.1</u> <u>5.2</u>	Hydrogeology Superficial aquifer Bedrock aquifer	On site Identified (0-50m within 500m within 500m within 50m)	50-250m		500-2000m
Page 31 33 34	Section <u>5.1</u> <u>5.2</u> <u>5.3</u>	Hydrogeology Superficial aquifer Bedrock aquifer Groundwater vulnerability	On site Identified (Identified (0-50m within 500m within 500m within 50m)	50-250m		500-2000m
Page 31 33 34 35	Section <u>5.1</u> <u>5.2</u> <u>5.3</u> <u>5.4</u>	Hydrogeology Superficial aquifer Bedrock aquifer Groundwater vulnerability Groundwater vulnerability- soluble rock risk	On site Identified (Identified (Identified (0-50m within 500m within 500m within 50m)	50-250m		500-2000m
Page 31 33 34 35 36	 Section 5.1 5.2 5.3 5.4 5.5 	Hydrogeology Superficial aquifer Bedrock aquifer Groundwater vulnerability Groundwater vulnerability- soluble rock risk Groundwater vulnerability- local information	On site Identified (Identified (Identified (Identified (None (with	0-50m within 500m within 500m within 50m) within 0m) in 0m)	50-250m)	250-500m	
Page 31 33 34 35 36 37	 Section 5.1 5.2 5.3 5.4 5.5 5.6 	Hydrogeology Superficial aquifer Bedrock aquifer Groundwater vulnerability Groundwater vulnerability- soluble rock risk Groundwater vulnerability- local information Groundwater abstractions	On site Identified (Identified (Identified (Identified (None (with	0-50m within 500m within 500m within 50m) within 0m) in 0m)	50-250m))	250-500m	10
Page 31 33 34 35 36 37 41	 Section 5.1 5.2 5.3 5.4 5.5 5.6 5.7 	Superficial aquifer Bedrock aquifer Groundwater vulnerability Groundwater vulnerability- soluble rock risk Groundwater vulnerability- local information Groundwater abstractions Surface water abstractions	On site Identified (Identified (Identified (Identified (Identified (None (with	0-50m within 500m within 50m) within 0m) in 0m) 0	50-250m))	250-500m 6 0	10 0
Page 31 33 34 35 36 37 41 41	 Section 5.1 5.2 5.3 5.4 5.5 5.6 5.7 5.8 	Superficial aquifer Bedrock aquifer Groundwater vulnerability Groundwater vulnerability- soluble rock risk Groundwater vulnerability- local information Groundwater abstractions Surface water abstractions Potable abstractions	On site Identified (Identified (Identified (Identified (Identified (O O O O	0-50m within 500m within 50m) within 0m) in 0m) 0 0	50-250m)) 1 0	250-500m 6 0	10 0
Page 31 33 34 35 36 37 41 41 42	 Section 5.1 5.2 5.3 5.4 5.5 5.6 5.7 5.8 5.9 	Superficial aquifer Bedrock aquifer Groundwater vulnerability Groundwater vulnerability- soluble rock risk Groundwater vulnerability- local information Groundwater abstractions Surface water abstractions Potable abstractions Source Protection Zones	On site Identified (Identified (Identified (Identified (Identified (None (with 0 0 0 1	0-50m within 500m within 500m within 50m) within 0m) 0 0 0 0	50-250m) 1 0 0 2	250-500m 6 0 0	10 0





<u>44</u>	<u>6.2</u>	Surface water features	1	0	0	-	-
<u>44</u>	<u>6.3</u>	WFD Surface water body catchments	1	-	-	-	-
<u>45</u>	<u>6.4</u>	WFD Surface water bodies	1	0	0	-	-
<u>45</u>	<u>6.5</u>	WFD Groundwater bodies	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
<u>46</u>	<u>7.1</u>	Risk of flooding from rivers and the sea	High (withi	n 50m)			
47	7.2	Historical Flood Events	0	0	0	-	-
47	7.3	Flood Defences	0	0	0	-	-
47	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
47	7.5	Flood Storage Areas	0	0	0	-	-
<u>48</u>	<u>7.6</u>	Flood Zone 2	Identified (within 50m)			
<u>49</u>	<u>7.7</u>	Flood Zone 3	Identified (within 50m)			
Page	Section	Surface water flooding					
<u>50</u>	<u>8.1</u>	Surface water flooding	1 in 30 yea	r, 0.3m - 1.0n	n (within 50	m)	
Page	Section	Groundwater flooding					
<u>52</u>	<u>9.1</u>	Groundwater flooding	Low (withir	n 50m)			
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
Page <u>53</u>	Section <u>10.1</u>	Environmental designations Sites of Special Scientific Interest (SSSI)	On site	0-50m 0	50-250m 0	250-500m 0	500-2000m
		-					
<u>53</u>	<u>10.1</u>	Sites of Special Scientific Interest (SSSI)	0	0	0	0	1
53 54	10.1 10.2	Sites of Special Scientific Interest (SSSI) Conserved wetland sites (Ramsar sites)	0	0	0	0	1
53 54	10.1 10.2 10.3	Sites of Special Scientific Interest (SSSI) Conserved wetland sites (Ramsar sites) Special Areas of Conservation (SAC)	0 0	0 0	0 0	0 0	1 0 0
53 54 54 54	10.1 10.2 10.3 10.4	Sites of Special Scientific Interest (SSSI) Conserved wetland sites (Ramsar sites) Special Areas of Conservation (SAC) Special Protection Areas (SPA)	0 0 0	0 0 0	0 0 0	0 0 0	1 0 0
53 54 54 54 54	10.1 10.2 10.3 10.4 10.5	Sites of Special Scientific Interest (SSSI) Conserved wetland sites (Ramsar sites) Special Areas of Conservation (SAC) Special Protection Areas (SPA) National Nature Reserves (NNR)	0 0 0 0	0 0 0 0 0	0 0 0 0	0 0 0 0	1 0 0 0
53 54 54 54 54 55	10.1 10.2 10.3 10.4 10.5 10.6	Sites of Special Scientific Interest (SSSI) Conserved wetland sites (Ramsar sites) Special Areas of Conservation (SAC) Special Protection Areas (SPA) National Nature Reserves (NNR) Local Nature Reserves (LNR)	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	1 0 0 0 0
53 54 54 54 54 55 55	10.1 10.2 10.3 10.4 10.5 10.6	Sites of Special Scientific Interest (SSSI) Conserved wetland sites (Ramsar sites) Special Areas of Conservation (SAC) Special Protection Areas (SPA) National Nature Reserves (NNR) Local Nature Reserves (LNR) Designated Ancient Woodland	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	1 0 0 0 0 0
53 54 54 54 54 55 55	10.1 10.2 10.3 10.4 10.5 10.6 10.7	Sites of Special Scientific Interest (SSSI) Conserved wetland sites (Ramsar sites) Special Areas of Conservation (SAC) Special Protection Areas (SPA) National Nature Reserves (NNR) Local Nature Reserves (LNR) Designated Ancient Woodland Biosphere Reserves	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	1 0 0 0 0 0 3
53 54 54 54 55 55 55	10.1 10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9	Sites of Special Scientific Interest (SSSI) Conserved wetland sites (Ramsar sites) Special Areas of Conservation (SAC) Special Protection Areas (SPA) National Nature Reserves (NNR) Local Nature Reserves (LNR) Designated Ancient Woodland Biosphere Reserves Forest Parks	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	1 0 0 0 0 0 3 0
53 54 54 54 54 55 55 55 56	10.1 10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 10.10	Sites of Special Scientific Interest (SSSI) Conserved wetland sites (Ramsar sites) Special Areas of Conservation (SAC) Special Protection Areas (SPA) National Nature Reserves (NNR) Local Nature Reserves (LNR) Designated Ancient Woodland Biosphere Reserves Forest Parks Marine Conservation Zones	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0	1 0 0 0 0 0 3 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
<u>57</u>	<u>10.16</u>	Nitrate Vulnerable Zones	1	0	0	0	3
<u>58</u>	<u>10.17</u>	SSSI Impact Risk Zones	2	-	-	-	-
<u>59</u>	<u>10.18</u>	SSSI Units	0	0	0	0	1
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
61	11.1	World Heritage Sites	0	0	0	-	-
62	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
62	11.3	National Parks	0	0	0	-	-
<u>62</u>	<u>11.4</u>	<u>Listed Buildings</u>	0	0	2	-	-
63	11.5	Conservation Areas	0	0	0	-	-
63	11.6	Scheduled Ancient Monuments	0	0	0	-	-
63	11.7	Registered Parks and Gardens	0	0	0	-	-
					E0 2E0	252 522	
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
Page <u>64</u>	<u>12.1</u>	Agricultural designations Agricultural Land Classification		0-50m vithin 250m)		250-500m	500-2000m
						250-500m	500-2000m
<u>64</u>	<u>12.1</u>	Agricultural Land Classification	Grade 3a (v	vithin 250m)		- -	500-2000m - -
64 65	12.1 12.2	Agricultural Land Classification Open Access Land	Grade 3a (v	vithin 250m) 0	0	- - -	- - -
64 65 66	12.1 12.2 12.3	Agricultural Land Classification Open Access Land Tree Felling Licences	Grade 3a (v 0	vithin 250m) 0 0	0	- - -	- - -
64 65 66	12.1 12.2 12.3 12.4	Agricultural Land Classification Open Access Land Tree Felling Licences Environmental Stewardship Schemes	Grade 3a (v 0 0	vithin 250m) 0 0 0	0 0	250-500m 250-500m	- - - - 500-2000m
64 65 66 66 66	12.1 12.2 12.3 12.4 12.5	Agricultural Land Classification Open Access Land Tree Felling Licences Environmental Stewardship Schemes Countryside Stewardship Schemes	Grade 3a (v 0 0 0 0	vithin 250m) 0 0 0	0 0 0	- - -	- - -
64 65 66 66 Page	12.1 12.2 12.3 12.4 12.5 Section	Agricultural Land Classification Open Access Land Tree Felling Licences Environmental Stewardship Schemes Countryside Stewardship Schemes Habitat designations	Grade 3a (v 0 0 0 0 0 On site	vithin 250m) 0 0 0 0 0 0 0 0-50m	0 0 0 0 50-250m	- - -	- - -
64 65 66 66 66 Page	12.1 12.2 12.3 12.4 12.5 Section	Agricultural Land Classification Open Access Land Tree Felling Licences Environmental Stewardship Schemes Countryside Stewardship Schemes Habitat designations Priority Habitat Inventory	Grade 3a (v 0 0 0 0 On site	vithin 250m) 0 0 0 0 0 0-50m	0 0 0 0 50-250m	- - -	- - -
64 65 66 66 66 Page 67	12.1 12.2 12.3 12.4 12.5 Section 13.1 13.2	Agricultural Land Classification Open Access Land Tree Felling Licences Environmental Stewardship Schemes Countryside Stewardship Schemes Habitat designations Priority Habitat Inventory Habitat Networks	Grade 3a (v 0 0 0 0 On site 0	vithin 250m) 0 0 0 0 0-50m 0	0 0 0 0 50-250m	- - -	- - -
64 65 66 66 66 Page 67 67	12.1 12.2 12.3 12.4 12.5 Section 13.1 13.2 13.3	Agricultural Land Classification Open Access Land Tree Felling Licences Environmental Stewardship Schemes Countryside Stewardship Schemes Habitat designations Priority Habitat Inventory Habitat Networks Open Mosaic Habitat	Grade 3a (v 0 0 0 0 On site 0 0	vithin 250m) 0 0 0 0 0-50m 0 0	0 0 0 0 50-250m 0 0	- - -	- - -
64 65 66 66 66 Page 67 67 67	12.1 12.2 12.3 12.4 12.5 Section 13.1 13.2 13.3	Agricultural Land Classification Open Access Land Tree Felling Licences Environmental Stewardship Schemes Countryside Stewardship Schemes Habitat designations Priority Habitat Inventory Habitat Networks Open Mosaic Habitat Limestone Pavement Orders	Grade 3a (v 0 0 0 0 On site 0 0 On site	vithin 250m) 0 0 0 0 0-50m 0 0	0 0 0 0 50-250m 0 0 0	- - - 250-500m - - -	- - - 500-2000m - -
64 65 66 66 Page 67 67 67 67	12.1 12.2 12.3 12.4 12.5 Section 13.1 13.2 13.3 13.4 Section	Agricultural Land Classification Open Access Land Tree Felling Licences Environmental Stewardship Schemes Countryside Stewardship Schemes Habitat designations Priority Habitat Inventory Habitat Networks Open Mosaic Habitat Limestone Pavement Orders Geology 1:10,000 scale	Grade 3a (v 0 0 0 0 On site 0 0 On site	vithin 250m) 0 0 0 0 0-50m 0 0 0 0-50m	0 0 0 0 50-250m 0 0 0	- - - 250-500m - - -	- - - 500-2000m - -
64 65 66 66 66 Page 67 67 67 67 Page	12.1 12.2 12.3 12.4 12.5 Section 13.1 13.2 13.3 13.4 Section 14.1	Agricultural Land Classification Open Access Land Tree Felling Licences Environmental Stewardship Schemes Countryside Stewardship Schemes Habitat designations Priority Habitat Inventory Habitat Networks Open Mosaic Habitat Limestone Pavement Orders Geology 1:10,000 scale 10k Availability	Grade 3a (v 0 0 0 0 On site On site Identified (v	vithin 250m) 0 0 0 0-50m 0 0 0 within 500m	0 0 0 0 50-250m 0 0 0 50-250m	- - - 250-500m - - - - 250-500m	- - - 500-2000m - -





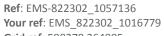
70	14.4	Landslip (10k)	0	0	0	0	-
71	14.5	Bedrock geology (10k)	0	0	0	0	-
71	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
<u>72</u>	<u>15.1</u>	50k Availability	Identified (within 500m)	•	
73	15.2	Artificial and made ground (50k)	0	0	0	0	-
73	15.3	Artificial ground permeability (50k)	0	0	-	-	-
<u>74</u>	<u>15.4</u>	Superficial geology (50k)	5	1	5	4	-
<u>75</u>	<u>15.5</u>	Superficial permeability (50k)	Identified (within 50m)			
76	15.6	Landslip (50k)	0	0	0	0	-
76	15.7	Landslip permeability (50k)	None (with	in 50m)			
<u>77</u>	<u>15.8</u>	Bedrock geology (50k)	2	0	0	1	-
<u>78</u>	<u>15.9</u>	Bedrock permeability (50k)	Identified (within 50m)			
78	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
<u>79</u>	<u>16.1</u>	BGS Boreholes	0	0	3	-	-
79 Page	16.1 Section	Natural ground subsidence	0	0	3	-	-
			O Low (within		3	-	-
Page	Section	Natural ground subsidence		n 50m)	3	-	
Page 81	Section <u>17.1</u>	Natural ground subsidence Shrink swell clays	Low (within	n 50m)	3	-	-
Page <u>81</u> <u>82</u>	Section <u>17.1</u> <u>17.2</u>	Natural ground subsidence Shrink swell clays Running sands	Low (within Low (within Moderate (n 50m) n 50m)	3	-	-
Page 81 82 84	Section 17.1 17.2 17.3	Natural ground subsidence Shrink swell clays Running sands Compressible deposits	Low (within Low (within Moderate (n 50m) n 50m) (within 50m) vithin 50m)	3	-	
Page 81 82 84 86	Section 17.1 17.2 17.3 17.4	Natural ground subsidence Shrink swell clays Running sands Compressible deposits Collapsible deposits	Low (within Moderate (Very low (within Low (within Very low (within Low (withi	n 50m) n 50m) (within 50m) vithin 50m)	3	-	
Page 81 82 84 86 88	Section 17.1 17.2 17.3 17.4 17.5	Natural ground subsidence Shrink swell clays Running sands Compressible deposits Collapsible deposits Landslides	Low (within Moderate (Very low (within Low (within Very low (within Low (withi	n 50m) n 50m) (within 50m) vithin 50m) n 50m)	3 50-250m	- 250-500m	500-2000m
Page 81 82 84 86 88 90	Section 17.1 17.2 17.3 17.4 17.5 17.6	Natural ground subsidence Shrink swell clays Running sands Compressible deposits Collapsible deposits Landslides Ground dissolution of soluble rocks	Low (within Low (within Moderate (Very low (vuthin Negligible (Very low))	n 50m) n 50m) (within 50m) vithin 50m) n 50m) (within 50m)		250-500m	500-2000m
Page 81 82 84 86 88 90 Page	Section 17.1 17.2 17.3 17.4 17.5 17.6 Section	Natural ground subsidence Shrink swell clays Running sands Compressible deposits Collapsible deposits Landslides Ground dissolution of soluble rocks Mining, ground workings and natural cavities	Low (within Moderate (Very low (vithin Negligible (On site	n 50m) n 50m) (within 50m) n 50m) n 50m) (within 50m) 0-50m	50-250m		500-2000m
Page 81 82 84 86 88 90 Page	Section 17.1 17.2 17.3 17.4 17.5 17.6 Section 18.1	Natural ground subsidence Shrink swell clays Running sands Compressible deposits Collapsible deposits Landslides Ground dissolution of soluble rocks Mining, ground workings and natural cavities Natural cavities	Low (within Low (within Moderate (Very low (Very low (Very low (Within Negligible (On site	n 50m) n 50m) (within 50m) vithin 50m) n 50m) (within 50m) 0-50m	50-250m	0	500-2000m
Page 81 82 84 86 88 90 Page 92 93	Section 17.1 17.2 17.3 17.4 17.5 17.6 Section 18.1 18.2	Natural ground subsidence Shrink swell clays Running sands Compressible deposits Collapsible deposits Landslides Ground dissolution of soluble rocks Mining, ground workings and natural cavities Natural cavities BritPits	Low (within Low (within Moderate (Very low (Very low (Within Negligible (On site	n 50m) n 50m) (within 50m) vithin 50m) n 50m) (within 50m) 0-50m 0	50-250m 0	0	500-2000m - -





94	<u>18.6</u>	Non-coal mining	0	0	0	2	1
95	18.7	Mining cavities	0	0	0	0	0
95	18.8	JPB mining areas	None (with	in 0m)			
95	18.9	Coal mining	None (with	in 0m)			
95	18.10	Brine areas	None (with	in 0m)			
95	18.11	Gypsum areas	None (with	in 0m)			
96	18.12	Tin mining	None (with	in 0m)			
96	18.13	Clay mining	None (with	in 0m)			
Page	Section	Radon					
<u>97</u>	<u>19.1</u>	Radon	Less than 1	% (within 0n	n)		
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
<u>98</u>	<u>20.1</u>	BGS Estimated Background Soil Chemistry	9	3	-	-	-
98	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
99	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
100	21.1	Underground railways (London)	0	0	0	-	-
100	21.2	Underground railways (Non-London)	0	0	0	-	-
101	21.3	Railway tunnels	0	0	0	-	-
<u>101</u>	<u>21.4</u>	Historical railway and tunnel features	0	0	1	-	-
101	21.5	Royal Mail tunnels	0	0	0	-	-
101	21.6	Historical railways	0	0	0	-	-
<u>102</u>	<u>21.7</u>	Railways	0	6	7	-	-
102	21.8	Crossrail 1	0	0	0	0	-
103	21.9	Crossrail 2	0	0	0	0	-
103	21.10	HS2	0	0	0	0	-







Recent aerial photograph

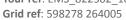


Capture Date: 05/04/2020

Site Area: 3.77ha



info@groundsure.com 08444 159 000





Recent site history - 2017 aerial photograph



Capture Date: 10/05/2017





Recent site history - 2014 aerial photograph



Capture Date: 18/05/2014





Recent site history - 1999 aerial photograph

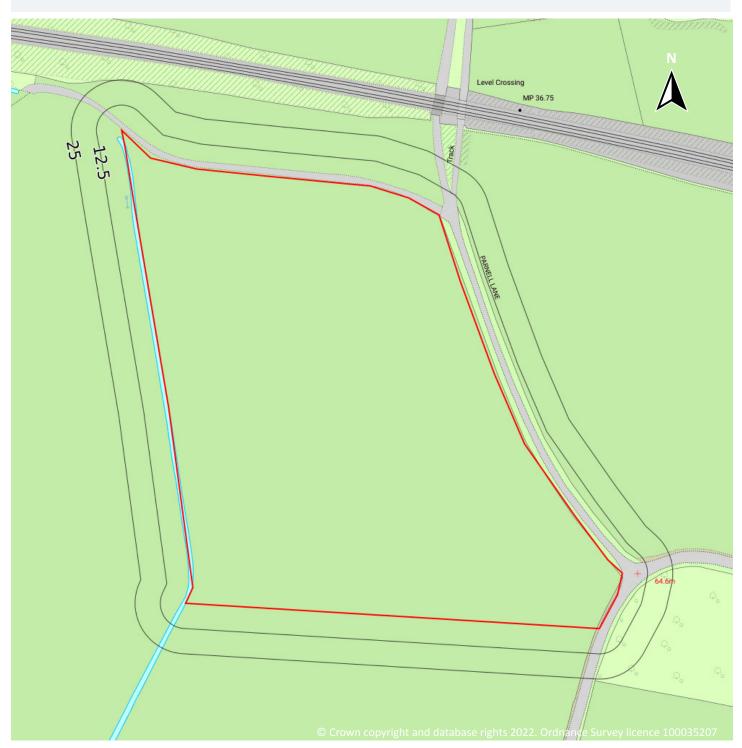


Capture Date: 25/06/1999





OS MasterMap site plan



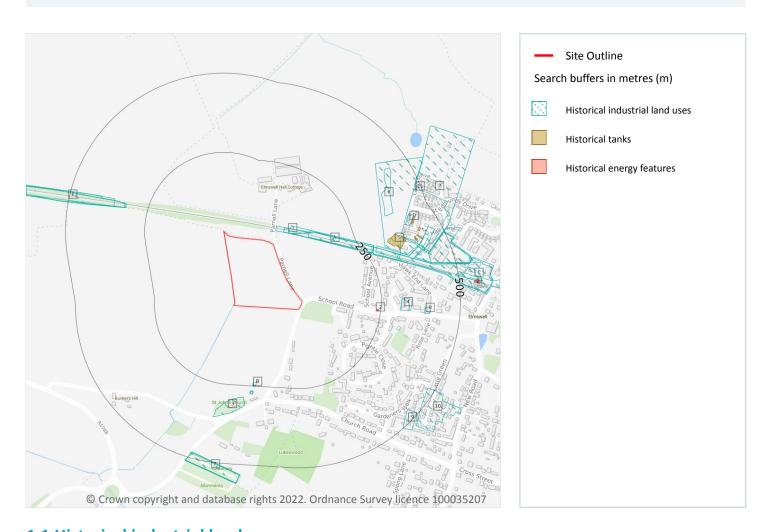
info@groundsure.com 08444 159 000





Grid ref: 598278 264005

1 Past land use



1.1 Historical industrial land uses

Records within 500m 33

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
1	42m N	Cuttings	1905	2088279





Grid ref: 598278 264005

ID	Location	Land use	Dates present	Group ID
А	51m NE	Cuttings	1950	2065700
А	51m NE	Cuttings	1883	2092056
А	60m NE	Cuttings	1978	2079604
Α	72m NE	Cuttings	1905	2121955
А	113m NE	Cuttings	1950	2093753
В	238m S	Unspecified Pit	1883	2042335
В	265m S	Unspecified Pit	1905	2102343
В	268m S	Unspecified Pit	1950	2066293
С	268m E	Railway Sidings	1905 - 1950	2094102
С	279m E	Railway Sidings	1950	2105337
3	289m S	Grave Yard	1883	2050925
4	312m E	Fire Station	1978	2057945
D	312m E	Unspecified Factory	1978	2046034
Е	318m NW	Cuttings	1883	2093709
Е	318m NW	Cuttings	1950	2095347
Е	322m NW	Cuttings	1905	2110552
С	325m E	Railway Sidings	1883	2119661
С	342m E	Timber Yard	1950	2096674
Е	355m NW	Cuttings	1978	2067552
6	363m NE	Sludge Beds	1978	2046899
7	373m E	Unspecified Depot	1950	2048054
С	382m E	Unspecified Mill	1950	2056516
8	388m E	Police Station	1883	2059735
D	408m E	Unspecified Tank	1978	2044641
С	425m E	Timber Yard	1905	2074452
9	467m SE	Telephone Exchange	1978	2054713
10	478m SE	Unspecified Works	1978	2046578
F	481m S	Cemetery	1978	2104000



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Grid ref: 598278 264005

ID	Location	Land use	Dates present	Group ID
F	481m S	Cemetery	1905 - 1950	2115256
F	484m S	Cemetery	1950	2081408
С	490m E	Railway Buildings	1950	2043255
С	496m E	Railway Station	1950	2090714

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m 8

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

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

ID	Location	Land use	Dates present	Group ID
5	328m E	Tanks	1995	348703
D	407m E	Tanks	1973	348704
D	417m E	Tanks	1986	348705
D	422m E	Unspecified Tank	1973	345457
D	428m E	Unspecified Tank	1973 - 1986	353651
D	442m E	Unspecified Tank	1973	345459
D	448m E	Unspecified Tank	1973	345460
11	481m NE	Unspecified Tank	1973 - 1986	352440

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

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





Grid ref: 598278 264005

succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

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

ID	Location	Land use	Dates present	Group ID
2	238m E	Electricity Substation	1973 - 1995	233826

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m 0

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

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m 0

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

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m 0

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

 ${\it This \ data \ is \ sourced \ from \ Ordnance \ Survey \ / \ Groundsure \ / \ other \ sources.}$





Grid ref: 598278 264005

2 Past land use - un-grouped



2.1 Historical industrial land uses

Records within 500m 39

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 ungrouped 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 17

ID	Location	Land Use	Date	Group ID
А	42m N	Cuttings	1905	2088279
А	51m NE	Cuttings	1950	2065700
А	51m NE	Cuttings	1883	2092056





Grid ref: 598278 264005

B 60m NE Cuttings 1978 2079604 B 70m NE Cuttings 1950 2065700 B 72m NE Cuttings 1883 2092056 B 72m NE Cuttings 1905 2121955 B 113m NE Cuttings 1950 2093753 C 238m S Unspecified Pit 1905 2102343 C 265m S Unspecified Pit 1905 2102343 C 265m S Unspecified Pit 1905 2102343 C 265m S Unspecified Pit 1905 2066293 E 268m E Railway Sidings 1950 2066293 E 279m E Railway Sidings 1950 2094102 E 279m E Fire Station 1978 2057945 F 312m E Unspecified Factory 1978 2046034 G 318m NW Cuttings 1950 2093379 G 322m NW Cuttings 1905	ID	Location	Land Use	Date	Group ID
B Zem NE Cuttings 1883 2092056 B 72m NE Cuttings 1905 2121955 B 113m NE Cuttings 1950 2093753 C 238m S Unspecified Pit 1905 2102343 C 265m S Unspecified Pit 1905 2102343 C 265m S Unspecified Pit 1950 2066293 E 268m E Railway Sidings 1950 2094102 E 279m E Railway Sidings 1950 2105337 1 289m S Grave Yard 1883 2050925 2 312m E Fire Station 1978 2046034 G 312m E Unspecified Factory 1978 2046034 G 312m NW Cuttings 1950 2095347 G 312m NW Cuttings 1950 2095347 E 322m NW Cuttings 1905 2094102 E 325m E Railway Sidings 1	В	60m NE	Cuttings	1978	2079604
B 72m NE Cuttings 1905 2121955 B 113m NE Cuttings 1950 2093753 C 238m S Unspecified Pit 1883 2042335 C 265m S Unspecified Pit 1905 2102343 C 265m S Unspecified Pit 1905 2066293 E 268m E Rallway Sidings 1950 2094102 E 279m E Rallway Sidings 1950 2094102 E 279m E Rallway Sidings 1950 205337 1 289m S Grave Yard 1883 2050925 2 312m E Fire Station 1978 2057945 F 312m E Unspecified Factory 1978 2046034 G 318m NW Cuttings 1950 2095347 G 312m E Unspecified Factory 1978 2046034 G 322m NW Cuttings 1905 2110552 E 325m E Rallway Sidings <td>В</td> <td>70m NE</td> <td>Cuttings</td> <td>1950</td> <td>2065700</td>	В	70m NE	Cuttings	1950	2065700
B 113m NE Cuttings 1950 2093753 C 238m S Unspecified Pit 1883 2042335 C 265m S Unspecified Pit 1905 2102343 C 265m S Unspecified Pit 1905 2102343 C 265m S Unspecified Pit 1950 2066293 E 268m E Railway Sidings 1950 2094102 E 279m E Railway Sidings 1950 2105337 1 289m S Grave Yard 1883 2050925 2 312m E Fire Station 1978 2057945 F 312m E Unspecified Factory 1978 2046034 G 318m NW Cuttings 1950 2095347 G 318m NW Cuttings 1905 2110552 E 322m NW Cuttings 1905 2094102 E 330m E Railway Sidings 1905 2096674 G 355m NW Cuttings	В	72m NE	Cuttings	1883	2092056
C 238m S Unspecified Pit 1883 2042335 C 265m S Unspecified Pit 1905 2102343 C 265m S Unspecified Pit 1905 202343 C 268m S Unspecified Pit 1950 2066293 E 268m E Railway Sidings 1950 2094102 E 279m E Railway Sidings 1950 2105337 1 289m S Grave Yard 1883 2050925 2 312m E Fire Station 1978 2057945 F 312m E Unspecified Factory 1978 2046034 G 318m NW Cuttings 1950 2095347 G 318m NW Cuttings 1905 2110552 E 322m NW Cuttings 1905 2110552 E 330m E Railway Sidings 1905 2094102 E 342m E Timber Yard 1950 2096674 G 355m NW Cuttings	В	72m NE	Cuttings	1905	2121955
C 265m S Unspecified Pit 1905 2102343 C 265m S Unspecified Pit 1905 2102343 C 268m S Unspecified Pit 1950 206293 E 268m E Railway Sidings 1950 2094102 E 279m E Railway Sidings 1950 2105337 1 289m S Grave Yard 1883 2050925 2 312m E Fire Station 1978 2046034 G 318m NW Cuttings 1950 2095347 G 318m NW Cuttings 1950 2095347 G 318m NW Cuttings 1905 2095347 G 325m E Railway Sidings 1883 2119661 E 325m E Railway Sidings 1905 2094102 E 342m E Timber Yard 1950 2096674 G 355m NW Cuttings 1978 2046899 S 373m E Unspecified Depot	В	113m NE	Cuttings	1950	2093753
C 265m S Unspecified Pit 1905 2102343 C 268m S Unspecified Pit 1950 2066293 E 268m E Railway Sidings 1950 2094102 E 279m E Railway Sidings 1950 2105337 1 289m S Grave Yard 1883 2050925 2 312m E Fire Station 1978 2046034 G 312m E Unspecified Factory 1978 2046034 G 318m NW Cuttings 1950 2095347 G 318m NW Cuttings 1905 2110552 E 325m E Railway Sidings 1905 2110552 E 325m E Railway Sidings 1905 2094102 E 342m E Timber Yard 1950 2096674 G 355m NW Cuttings 1978 2046899 5 373m E Unspecified Depot 1950 2048054 E 382m E Unspecified Depo	С	238m S	Unspecified Pit	1883	2042335
C 268m S Unspecified Pit 1950 2066293 E 268m E Railway Sidings 1950 2094102 E 279m E Railway Sidings 1950 2105337 1 289m S Grave Yard 1883 2050925 2 312m E Fire Station 1978 2046034 6 312m E Unspecified Factory 1978 2046034 6 318m NW Cuttings 1950 2095347 6 318m NW Cuttings 1995 2095347 6 322m NW Cuttings 1905 2110552 6 325m E Railway Sidings 1905 2094102 6 330m E Railway Sidings 1995 2094102 6 342m E Timber Yard 1950 2096674 6 355m NW Cuttings 1978 2067552 4 363m NE Sludge Beds 1978 2046899 5 373m E Unspecified Mill 1950 2056516 6 388m E Police Station	С	265m S	Unspecified Pit	1905	2102343
E 268m E Railway Sidings 1950 2094102 E 279m E Railway Sidings 1950 2105337 1 289m S Grave Yard 1883 2050925 2 312m E Fire Station 1978 2057945 F 312m E Unspecified Factory 1978 2046034 G 318m NW Cuttings 1950 2095347 G 318m NW Cuttings 1883 2093709 G 322m NW Cuttings 1883 2110552 E 325m E Railway Sidings 1883 2119661 E 325m E Railway Sidings 1905 2094102 E 342m E Timber Yard 1950 2096674 G 355m NW Cuttings 1978 2067552 4 363m NE Sludge Beds 1978 2046899 5 373m E Unspecified Depot 1950 2056516 6 388m E Police Station 1883 2059735 G 396m NW Cuttings 1950<	С	265m S	Unspecified Pit	1905	2102343
E 279m E Railway Sidings 1950 2105337 1 289m S Grave Yard 1883 2050925 2 312m E Fire Station 1978 2057945 F 312m E Unspecified Factory 1978 2046034 G 318m NW Cuttings 1950 2095347 G 318m NW Cuttings 1883 2093709 G 322m NW Cuttings 1905 2110552 E 325m E Railway Sidings 1883 2119661 E 330m E Railway Sidings 1905 2094102 E 342m E Timber Yard 1950 2096674 G 355m NW Cuttings 1978 2067552 4 363m NE Sludge Beds 1978 2046899 5 373m E Unspecified Depot 1950 2048054 E 382m E Unspecified Mill 1950 2056516 G 388m E Police Station 1883 2059735 G 396m NW Cuttings 1950	С	268m S	Unspecified Pit	1950	2066293
1 289m S Grave Yard 1883 2050925 2 312m E Fire Station 1978 2057945 F 312m E Unspecified Factory 1978 2046034 G 318m NW Cuttings 1950 2095347 G 318m NW Cuttings 1883 2093709 G 322m NW Cuttings 1905 2110552 E 325m E Railway Sidings 1883 2119661 E 330m E Railway Sidings 1905 2094102 E 342m E Timber Yard 1950 2096674 G 355m NW Cuttings 1978 2067552 4 363m NE Sludge Beds 1978 2046899 5 373m E Unspecified Depot 1950 2048054 E 382m E Police Station 1883 2059735 G 396m NW Cuttings 1950 2095347 F 408m E Unspecified Tank 1978 2044641	Е	268m E	Railway Sidings	1950	2094102
2 312m E Fire Station 1978 2057945 F 312m E Unspecified Factory 1978 2046034 G 318m NW Cuttings 1950 2095347 G 318m NW Cuttings 1883 2093709 G 322m NW Cuttings 1905 2110552 E 325m E Railway Sidings 1883 2119661 E 330m E Railway Sidings 1905 2094102 E 342m E Timber Yard 1950 2096674 G 355m NW Cuttings 1978 2046899 5 373m E Unspecified Depot 1950 2048054 E 382m E Unspecified Mill 1950 2056516 G 396m NW Cuttings 1950 2059735 G 396m NW Cuttings 1950 2095347 F 408m E Unspecified Tank 1978 204641	Е	279m E	Railway Sidings	1950	2105337
F 312m E Unspecified Factory 1978 2046034 G 318m NW Cuttings 1950 2095347 G 318m NW Cuttings 1883 2093709 G 322m NW Cuttings 1905 2110552 E 325m E Railway Sidings 1905 2094102 E 330m E Railway Sidings 1995 209674 G 342m E Timber Yard 1950 2096674 G 355m NW Cuttings 1978 2046899 4 363m NE Sludge Beds 1978 2048054 E 382m E Unspecified Depot 1950 2048054 E 382m E Police Station 1883 2059735 G 396m NW Cuttings 1950 2095347 F 408m E Unspecified Tank 1978 2044641	1	289m S	Grave Yard	1883	2050925
G 318m NW Cuttings 1950 2095347 G 318m NW Cuttings 1883 2093709 G 322m NW Cuttings 1905 2110552 E 325m E Railway Sidings 1883 2119661 E 330m E Railway Sidings 1905 2094102 E 342m E Timber Yard 1950 2096674 G 355m NW Cuttings 1978 2067552 4 363m NE Sludge Beds 1978 2048054 5 373m E Unspecified Depot 1950 2048054 6 382m E Vuspecified Mill 1950 2056516 6 388m E Police Station 1883 2059735 G 396m NW Cuttings 1950 2095347 F 408m E Unspecified Tank 1978 2044641	2	312m E	Fire Station	1978	2057945
G 318m NW Cuttings 1883 2093709 G 322m NW Cuttings 1905 2110552 E 325m E Railway Sidings 1883 2119661 E 330m E Railway Sidings 1905 2094102 E 342m E Timber Yard 1950 2096674 G 355m NW Cuttings 1978 2067552 4 363m NE Sludge Beds 1978 2048054 5 373m E Unspecified Depot 1950 2048054 E 382m E Unspecified Mill 1950 2056516 6 388m E Police Station 1883 2059735 G 396m NW Cuttings 1950 2095347 F 408m E Unspecified Tank 1978 2044641	F	312m E	Unspecified Factory	1978	2046034
G 322m NW Cuttings 1905 2110552 E 325m E Railway Sidings 1883 2119661 E 330m E Railway Sidings 1905 2094102 E 342m E Timber Yard 1950 2096674 G 355m NW Cuttings 1978 2067552 4 363m NE Sludge Beds 1978 2046899 5 373m E Unspecified Depot 1950 2048054 E 382m E Unspecified Mill 1950 2056516 6 388m E Police Station 1883 2059735 G 396m NW Cuttings 1950 2095347 F 408m E Unspecified Tank 1978 2044641	G	318m NW	Cuttings	1950	2095347
E 325m E Railway Sidings 1883 2119661 E 330m E Railway Sidings 1905 2094102 E 342m E Timber Yard 1950 2096674 G 355m NW Cuttings 1978 2067552 4 363m NE Sludge Beds 1978 2046899 5 373m E Unspecified Depot 1950 2048054 E 382m E Unspecified Mill 1950 2056516 6 388m E Police Station 1883 2059735 G 396m NW Cuttings 1950 2095347 F 408m E Unspecified Tank 1978 2044641	G	318m NW	Cuttings	1883	2093709
E 330m E Railway Sidings 1905 2094102 E 342m E Timber Yard 1950 2096674 G 355m NW Cuttings 1978 2067552 4 363m NE Sludge Beds 1978 2046899 5 373m E Unspecified Depot 1950 2048054 E 382m E Unspecified Mill 1950 2056516 6 388m E Police Station 1883 2059735 G 396m NW Cuttings 1950 2095347 F 408m E Unspecified Tank 1978 2044641	G	322m NW	Cuttings	1905	2110552
E 342m E Timber Yard 1950 2096674 G 355m NW Cuttings 1978 2067552 4 363m NE Sludge Beds 1978 2046899 5 373m E Unspecified Depot 1950 2048054 E 382m E Unspecified Mill 1950 2056516 6 388m E Police Station 1883 2059735 G 396m NW Cuttings 1950 2095347 F 408m E Unspecified Tank 1978 2044641	Е	325m E	Railway Sidings	1883	2119661
G 355m NW Cuttings 1978 2067552 4 363m NE Sludge Beds 1978 2046899 5 373m E Unspecified Depot 1950 2048054 E 382m E Unspecified Mill 1950 2056516 6 388m E Police Station 1883 2059735 G 396m NW Cuttings 1950 2095347 F 408m E Unspecified Tank 1978 2044641	Е	330m E	Railway Sidings	1905	2094102
4 363m NE Sludge Beds 1978 2046899 5 373m E Unspecified Depot 1950 2048054 E 382m E Unspecified Mill 1950 2056516 6 388m E Police Station 1883 2059735 G 396m NW Cuttings 1950 2095347 F 408m E Unspecified Tank 1978 2044641	Е	342m E	Timber Yard	1950	2096674
5 373 m E Unspecified Depot 1950 2048054 E 382 m E Unspecified Mill 1950 2056516 6 388 m E Police Station 1883 2059735 G 396m NW Cuttings 1950 2095347 F 408 m E Unspecified Tank 1978 2044641	G	355m NW	Cuttings	1978	2067552
E 382m E Unspecified Mill 1950 2056516 6 388m E Police Station 1883 2059735 G 396m NW Cuttings 1950 2095347 F 408m E Unspecified Tank 1978 2044641	4	363m NE	Sludge Beds	1978	2046899
6 388m E Police Station 1883 2059735 G 396m NW Cuttings 1950 2095347 F 408m E Unspecified Tank 1978 2044641	5	373m E	Unspecified Depot	1950	2048054
G 396m NW Cuttings 1950 2095347 F 408m E Unspecified Tank 1978 2044641	Е	382m E	Unspecified Mill	1950	2056516
F 408m E Unspecified Tank 1978 2044641	6	388m E	Police Station	1883	2059735
	G	396m NW	Cuttings	1950	2095347
E 425m E Timber Yard 1905 2074452	F	408m E	Unspecified Tank	1978	2044641
	Е	425m E	Timber Yard	1905	2074452

info@groundsure.com 08444 159 000





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ID	Location	Land Use	Date	Group ID
7	467m SE	Telephone Exchange	1978	2054713
8	478m SE	Unspecified Works	1978	2046578
1	481m S	Cemetery	1978	2104000
ı	481m S	Cemetery	1950	2115256
I	482m S	Cemetery	1905	2115256
I	484m S	Cemetery	1950	2081408
Е	490m E	Railway Buildings	1950	2043255
Е	496m E	Railway Station	1950	2090714

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m 10

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

Features are displayed on the Past land use - un-grouped map on page 17

ID	Location	Land Use	Date	Group ID
3	328m E	Tanks	1995	348703
F	407m E	Tanks	1973	348704
F	417m E	Tanks	1986	348705
F	422m E	Unspecified Tank	1973	345457
F	428m E	Unspecified Tank	1986	353651
F	428m E	Unspecified Tank	1973	353651
F	442m E	Unspecified Tank	1973	345459
F	448m E	Unspecified Tank	1973	345460
Н	481m NE	Unspecified Tank	1986	352440
Н	481m NE	Unspecified Tank	1973	352440

This data is sourced from Ordnance Survey / Groundsure.





Grid ref: 598278 264005

2.3 Historical energy features

Records within 500m

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 17

ID	Location	Land Use	Date	Group ID
D	238m E	Electricity Substation	1995	233826
D	238m E	Electricity Substation	1973	233826
D	238m E	Electricity Substation	1987	233826

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m 0

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

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m 0

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

 ${\it This\ data\ is\ sourced\ from\ Ordnance\ Survey\ /\ Groundsure.}$





Grid ref: 598278 264005

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.





Grid ref: 598278 264005

3.3 Historical landfill (LA/mapping records)

Records within 500m 0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m 0

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

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

3.5 Historical waste sites

Records within 500m 0

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

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

3.6 Licensed waste sites

Records within 500m 0

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

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

3.7 Waste exemptions

Records within 500m 1

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 21

ID	Location	Site	Reference	Category	Sub-Category	Description
1	L On site ROUGHAM INDUSTRIAL ESTATE ROUGHAM SUFFOLK IP30 9XA		EPR/MF0239 WW/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place





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





Grid ref: 598278 264005

4 Current industrial land use



Site Outline
 Search buffers in metres (m)
 Recent industrial land uses
 Part A(1) industrial activities
 Licensed Discharges to controlled waters

4.1 Recent industrial land uses

Records within 250m 1

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on page 24

ID	Location	Company	Address	Activity	Category
2	231m E	Electricity Sub Station	Suffolk, IP30	Electrical Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey.





Grid ref: 598278 264005

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.





0

Grid ref: 598278 264005

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

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 4

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

Features are displayed on the Current industrial land use map on page 24

ID	Location	Details	
А	480m NE	Operator: GRAMPIAN COUNTRY PORK LIMITED Installation Name: GRAMPIAN HARRIS Process: OTHER WASTE DISPOSAL; NON-HAZARDOUS WASTE >50T/D BY BIOLOGICAL TREATMENT Permit Number: JP3831MQ Original Permit Number: CP3030BF	EPR Reference: - Issue Date: - Effective Date: 01/03/2007 Last date noted as effective: 13/06/2022 Status: SURRENDER EFFECTIVE





Grid ref: 598278 264005

ID	Location	Details	
Α	480m NE	Operator: GRAMPIAN COUNTRY PORK LTD Installation Name: GRAMPIAN HARRIS Process: ANIMAL VEGETABLE AND FOOD; TREATING ETC ANIMAL RAW MATERIALS (NOT MILK) FOR FOOD >75T/D Permit Number: CP3030BF Original Permit Number: CP3030BF	EPR Reference: - Issue Date: 22/09/2005 Effective Date: 22/09/2005 Last date noted as effective: 13/06/2022 Status: SUPERCEDED
А	480m NE	Operator: GRAMPIAN COUNTRY PORK LIMITED Installation Name: GRAMPIAN HARRIS Process: ANIMAL VEGETABLE AND FOOD; TREATING ETC ANIMAL RAW MATERIALS (NOT MILK) FOR FOOD >75T/D Permit Number: JP3831MQ Original Permit Number: CP3030BF	EPR Reference: - Issue Date: - Effective Date: 01/03/2007 Last date noted as effective: 13/06/2022 Status: SURRENDER EFFECTIVE
Α	480m NE	Operator: GRAMPIAN COUNTRY PORK LIMITED Installation Name: GRAMPIAN HARRIS Process: ASSOCIATED PROCESS Permit Number: JP3831MQ Original Permit Number: CP3030BF	EPR Reference: - Issue Date: - Effective Date: 01/03/2007 Last date noted as effective: 13/06/2022 Status: SURRENDER EFFECTIVE

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

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

Records within 500m 0

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

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m 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.





Grid ref: 598278 264005

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 24**

ID	Location	Address	Details	
1	148m S	LONG BANK STP, SCHOOL ROAD, ELMSWELL, BURY ST EDMUNDS, SUFFOLK, IP30 9EW	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: EPRPB3394RK Permit Version: 1 Receiving Water: GROUNDWATER VIA BOREHOLE	Status: NEW ISSUED UNDER EPR 2010 Issue date: 10/10/2019 Effective Date: 10/10/2019 Revocation Date: -
3	353m S	PREMISES ADJACENT TO HILL COURT, CHURCH ROAD, ELMSWELL, SUFFOLK	Effluent Type: UNSPECIFIED Permit Number: PRCLF00378 Permit Version: 1 Receiving Water: land	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 08/02/1989 Effective Date: 08/02/1989 Revocation Date: 29/07/1997
4	386m NE	ST EDMUNDS BACON FTRY, ELMSWELL, BURY ST EDMUNDS, SUFFOLK, IP30 9HF	Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: PR1NF1818 Permit Version: 1 Receiving Water: Trib River Sapiston	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 30/01/1985 Effective Date: 30/01/1985 Revocation Date: 17/09/1992
5	437m E	PREMISES AT ELMSWELL, BURY ST EDMUNDS, SUFFOLK	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: PR1NF1819 Permit Version: 1 Receiving Water: Trib River Sapiston	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 30/01/1985 Effective Date: 30/01/1985 Revocation Date: 18/02/1992

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.





Grid ref: 598278 264005

4.15 Pollutant release to public sewer

Records within 500m 0

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m 0

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

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

4.17 List 2 Dangerous Substances

Records within 500m 0

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m 0

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

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

4.19 Pollution inventory substances

Records within 500m 0

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

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





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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.

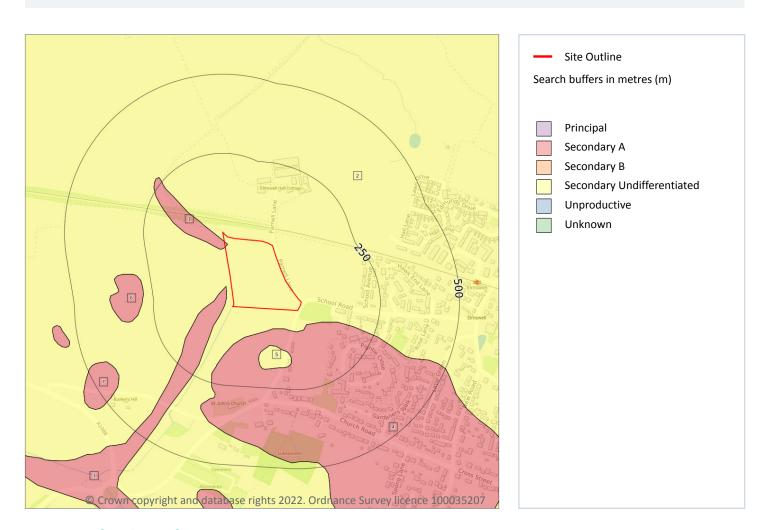
This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.





Grid ref: 598278 264005

5 Hydrogeology - Superficial aquifer



5.1 Superficial aquifer

Records within 500m 7

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on page 31

1	D	Location	Designation	Description
1	L	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	2	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type





Grid ref: 598278 264005

ID	Location	Designation	Description
3	17m W	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
4	53m SE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
5	116m S	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
6	278m W	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
7	419m SW	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

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



Date: 4 November 2022



Grid ref: 598278 264005

Bedrock aquifer



5.2 Bedrock aquifer

Records within 500m 1

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on page 33

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

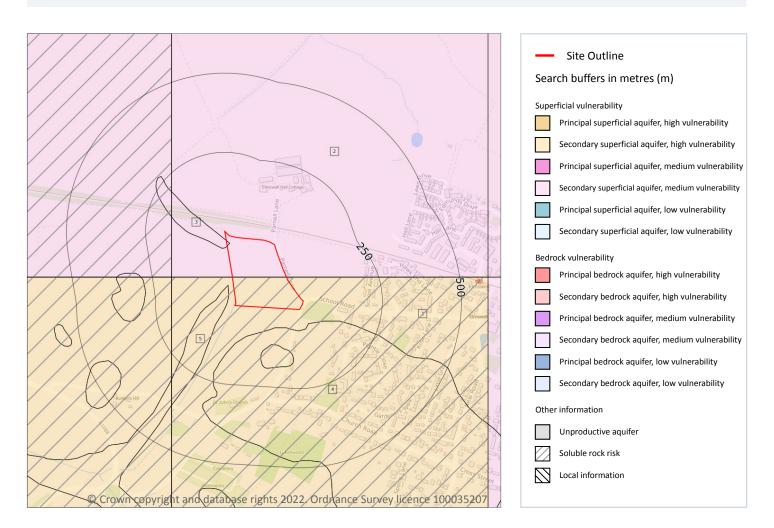
This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.





Grid ref: 598278 264005

Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m 4

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

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

Features are displayed on the Groundwater vulnerability map on page 34





Grid ref: 598278 264005

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Well connected fractures
2	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40- 70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Intergranular
2	0	Summary Classification:	Leaching class:	Vulnerability: Medium	Vulnerability: Low
3	On site	Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Intermediate Infiltration value: 40- 70% Dilution value: <300mm/year	Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Aquifer type: Principal Flow mechanism: Intergranular

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site 1

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

ID	Maximum soluble risk category	Percentage of grid square covered by maximum risk
4	Significant soluble rocks are likely to be present. Problems unlikely except with considerable surface or subsurface water flow.	1.0%

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





Grid ref: 598278 264005

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.

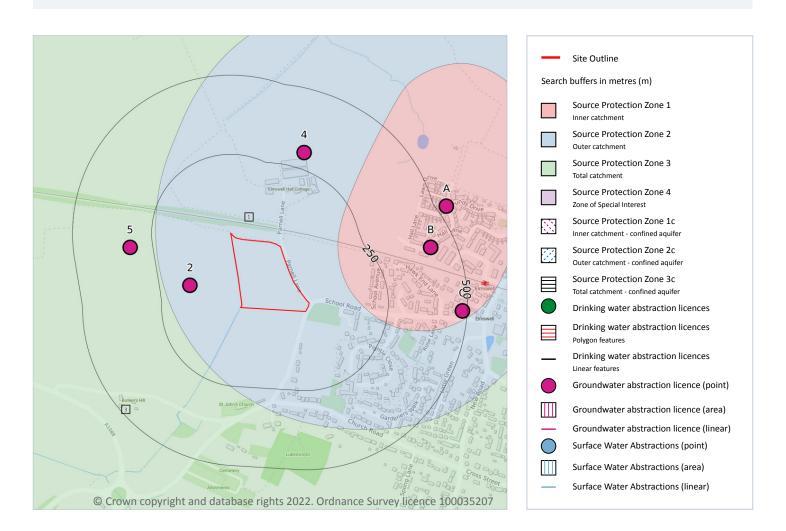


Date: 4 November 2022



Grid ref: 598278 264005

Abstractions and Source Protection Zones



5.6 Groundwater abstractions

Records within 2000m 17

Licensed groundwater abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, between two points (line data) or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on page 37





Grid ref: 598278 264005

ID	Location	Details	
2	153m W	Status: Historical Licence No: 6/33/41/*G/0029 Details: General Farming & Domestic Direct Source: GROUND WATER SOURCE OF SUPPLY Point: WELL 1 AT CROSS WAYS Data Type: Point Name: BAKER Easting: 598040 Northing: 263980	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 01/11/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/12/1969 Version End Date: -
4	302m N	Status: Historical Licence No: 6/33/41/*G/0086 Details: General Farming & Domestic Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT ELMSWELL HALL Data Type: Point Name: CHAPLIN Easting: 598400 Northing: 2644400	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 01/04/1967 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1967 Version End Date: -
5	321m W	Status: Historical Licence No: 6/33/41/*G/0029 Details: General Farming & Domestic Direct Source: GROUND WATER SOURCE OF SUPPLY Point: WELL 2 AT KILN LANE Data Type: Point Name: BAKER Easting: 597850 Northing: 264100	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 01/11/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/12/1969 Version End Date: -
В	421m E	Status: Historical Licence No: 6/33/41/*G/0158 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE B AT ELMSWELL Data Type: Point Name: GRAMPIAN COUNTRY PORK HARRIS Easting: 598800 Northing: 264100	Annual Volume (m³): 363680 Max Daily Volume (m³): 1409 Original Application No: - Original Start Date: 06/10/1988 Expiry Date: - Issue No: 101 Version Start Date: 19/10/2001 Version End Date: -
В	421m E	Status: Historical Licence No: 6/33/41/*G/0158 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE C AT ELMSWELL Data Type: Point Name: GRAMPIAN COUNTRY PORK HARRIS Easting: 598800 Northing: 264100	Annual Volume (m³): 363680 Max Daily Volume (m³): 1409 Original Application No: - Original Start Date: 06/10/1988 Expiry Date: - Issue No: 101 Version Start Date: 19/10/2001 Version End Date: -



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Grid ref: 598278 264005

ID	Location	Details	
С	484m E	Status: Historical Licence No: 6/33/41/*G/0043 Details: General Farming & Domestic Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE 1 AT ELMSWELL Data Type: Point Name: R BAKER & SON (ELMSWELL) LTD Easting: 598900 Northing: 263900	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 01/06/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/06/1966 Version End Date: -
С	484m E	Status: Historical Licence No: 6/33/41/*G/0043 Details: General Farming & Domestic Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE 2 AT CATTLE PENS Data Type: Point Name: R BAKER & SON (ELMSWELL) LTD Easting: 598900 Northing: 263900	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 01/06/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/06/1966 Version End Date: -
A	530m E	Status: Historical Licence No: 6/33/41/*G/0158 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE D AT ELMSWELL Data Type: Point Name: GRAMPIAN COUNTRY PORK HARRIS Easting: 598850 Northing: 264230	Annual Volume (m³): 363680 Max Daily Volume (m³): 1409 Original Application No: - Original Start Date: 06/10/1988 Expiry Date: - Issue No: 101 Version Start Date: 19/10/2001 Version End Date: -
-	1069m W	Status: Historical Licence No: 6/33/41/*G/0069 Details: General Farming & Domestic Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT ELMSWELL NEW HALL Data Type: Point Name: LANDLARK INVESTMENTS LTD Easting: 597100 Northing: 264100	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 01/12/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/08/1996 Version End Date: -
-	1069m W	Status: Historical Licence No: 6/33/41/*G/0069 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT ELMSWELL NEW HALL Data Type: Point Name: LANDLARK INVESTMENTS LTD Easting: 597100 Northing: 264100	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 01/12/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/08/1996 Version End Date: -



08444 159 000



Grid ref: 598278 264005

ID	Location	Details	
-	1281m NE	Status: Historical Licence No: 6/33/41/*G/0099 Details: General Farming & Domestic Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE N OF ELMSWELL Data Type: Point Name: DYBALL Easting: 599400 Northing: 264800	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 01/06/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/06/1966 Version End Date: -
-	1397m W	Status: Historical Licence No: 6/33/41/*G/0120 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUND WATER SOURCE OF SUPPLY Point: WELL AT WOOLPIT Data Type: Point Name: ANGLIAN WATER SERVICES LTD Easting: 596870 Northing: 263480	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 01/12/1972 Expiry Date: - Issue No: 100 Version Start Date: 01/11/1979 Version End Date: -
-	1585m N	Status: Active Licence No: 6/33/41/*G/0112 Details: General Farming & Domestic Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT HARDINGS FARM Data Type: Point Name: D BLACK & SON LTD Easting: 598420 Northing: 265710	Annual Volume (m³): 25,000 Max Daily Volume (m³): 68.20 Original Application No: - Original Start Date: 01/12/1967 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2008 Version End Date: -
-	1758m W	Status: Historical Licence No: 6/33/41/*G/0067 Details: General Farming & Domestic Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT CRAWLEY HALL FARM Data Type: Point Name: W HOWES & SON Easting: 596500 Northing: 264700	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 01/02/1967 Expiry Date: - Issue No: 100 Version Start Date: 01/02/1967 Version End Date: -
-	1789m NW	Status: Historical Licence No: 6/33/41/*G/0060 Details: General Farming & Domestic Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT NORTON HALL Data Type: Point Name: JOHN MILES AND SONS Easting: 597000 Northing: 265500	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 01/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/03/1966 Version End Date: -





Grid ref: 598278 264005

ID	Location	Details	
-	1864m E	Status: Historical Licence No: 7/35/08/*G/0112 Details: General Farming & Domestic Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BORE AT MUTTON HALL,WETHERDEN Data Type: Point Name: GOSLING Easting: 600250 Northing: 263590	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 01/08/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/08/1966 Version End Date: -
-	1874m W	Status: Historical Licence No: 6/33/41/*G/0044 Details: General Farming & Domestic Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT TOSTOCK OLD HALL Data Type: Point Name: ERRINGTON R N Easting: 596300 Northing: 264000	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 01/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/03/1966 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m 0

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

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

5.8 Potable abstractions

Records within 2000m 1

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

Features are displayed on the Abstractions and Source Protection Zones map on page 37





Grid ref: 598278 264005

ID	Location	Details	
	1069m W	Status: Historical Licence No: 6/33/41/*G/0069 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT ELMSWELL NEW HALL Data Type: Point Name: LANDLARK INVESTMENTS LTD Easting: 597100 Northing: 264100	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 01/12/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/08/1996 Version End Date: -

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

5.9 Source Protection Zones

Records within 500m 3

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination. Features are displayed on the Abstractions and Source Protection Zones map on page 37

ID	Location	Туре	Description
1	On site	2	Outer catchment
Α	132m E	1	Inner catchment
3	195m SW	3	Total catchment

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

5.10 Source Protection Zones (confined aquifer)

Records within 500m 0

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

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





Grid ref: 598278 264005

6 Hydrology



6.1 Water Network (OS MasterMap)

Records within 250m 3

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 43

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





Grid ref: 598278 264005

ID	Location	Type of water feature	Ground level	Permanence	Name
2	2m NW	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
3	54m NW	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 1

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 43

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 43

В	On site	River	Sapiston	GB105033043280	Little Ouse and Thet	Cam and Ely Ouse	
ID	Location	Туре	Water body catchment	Water body ID	Operational catchment	Management catchment	

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





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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 43

ID	Location	Туре	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
1	On site	River	Sapiston	GB105033043280	Moderate	Fail	Moderate	2019

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

6.5 WFD Groundwater bodies

Records on site 1

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

Features are displayed on the Hydrology map on page 43

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
В	On site	Cam and Ely Ouse Chalk	GB40501G400500	Poor	Poor	Poor	2019

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





Grid ref: 598278 264005

7 River and coastal flooding



7.1 Risk of flooding from rivers and the sea

Records within 50m 3

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 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 46





Grid ref: 598278 264005

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

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.



: Date: 4 November 2022



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River and coastal flooding - Flood Zones



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 46

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

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





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7.7 Flood Zone 3

Records within 50m

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 46

ocation	Туре		
On site	Zone 3 - (Fluvial Models)		

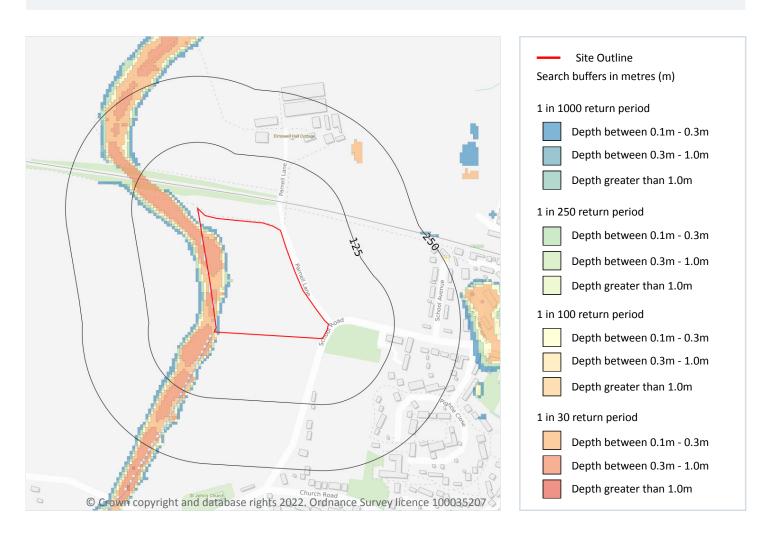
This data is sourced from the Environment Agency and Natural Resources Wales.





Grid ref: 598278 264005

8 Surface water flooding



8.1 Surface water flooding

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

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

Features are displayed on the Surface water flooding map on page 50

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.





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

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

This data is sourced from Ambiental Risk Analytics.

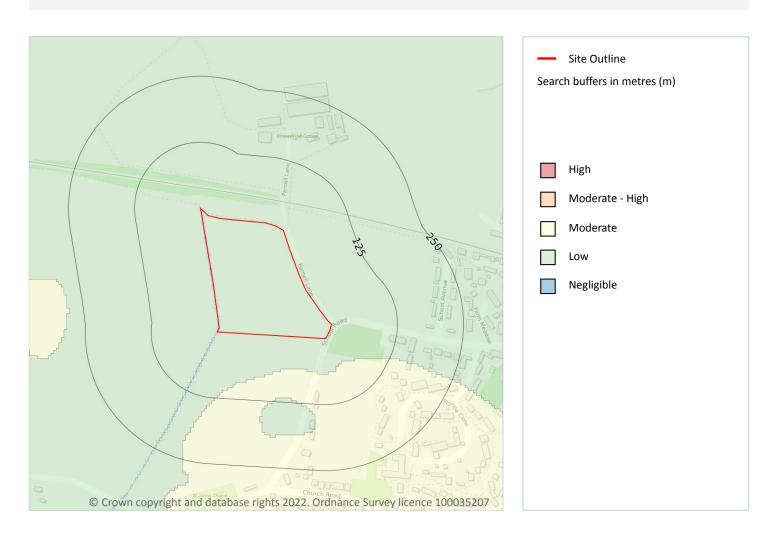


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9 Groundwater flooding



9.1 Groundwater flooding

Highest risk on site	Low
Highest risk within 50m	Low

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

Features are displayed on the Groundwater flooding map on page 52

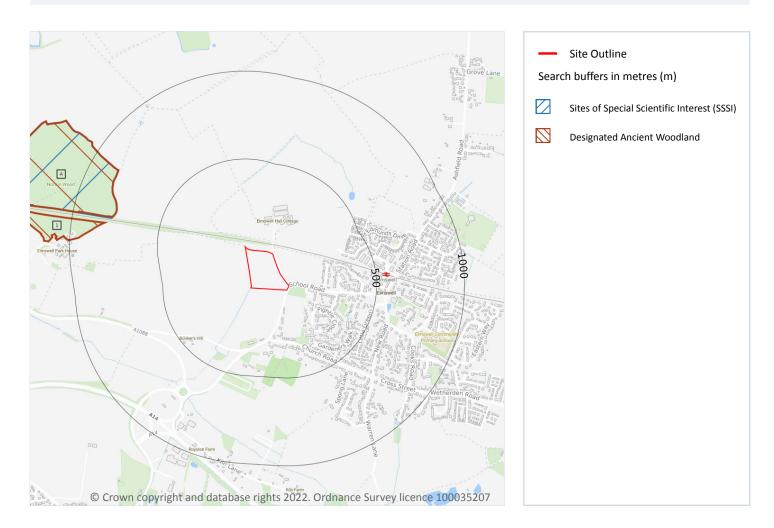
This data is sourced from Ambiental Risk Analytics.





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10 Environmental designations



10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m 1

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

Features are displayed on the Environmental designations map on page 53

ID	Location	Name	Data source
Α	760m W	Norton Wood	Natural England





Grid ref: 598278 264005

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

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.





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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 3

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.

Features are displayed on the Environmental designations map on page 53

ID	Location	Name	Woodland Type
А	760m W	Norton Wood	Ancient & Semi-Natural Woodland
1	812m W	Norton Wood	Ancient & Semi-Natural Woodland
_	1938m SW	Bridge Farm Wood	Ancient & Semi-Natural Woodland

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

10.8 Biosphere Reserves

Records within 2000m

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.





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10.9 Forest Parks

Records within 2000m

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.



Contact us with any questions at: Date: 4 November 2022



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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 4

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

Location	Name	Туре	NVZ ID	Status
On site	Ely Ouse and Cut-off channel NVZ	Surface Water	390	Existing
654m E	River Gipping NVZ	Surface Water	416	Existing
794m E	Sandlings and Chelmsford	Groundwater	78	Existing
1838m N	Ely Ouse and Cut-off channel NVZ	Surface Water	390	Existing

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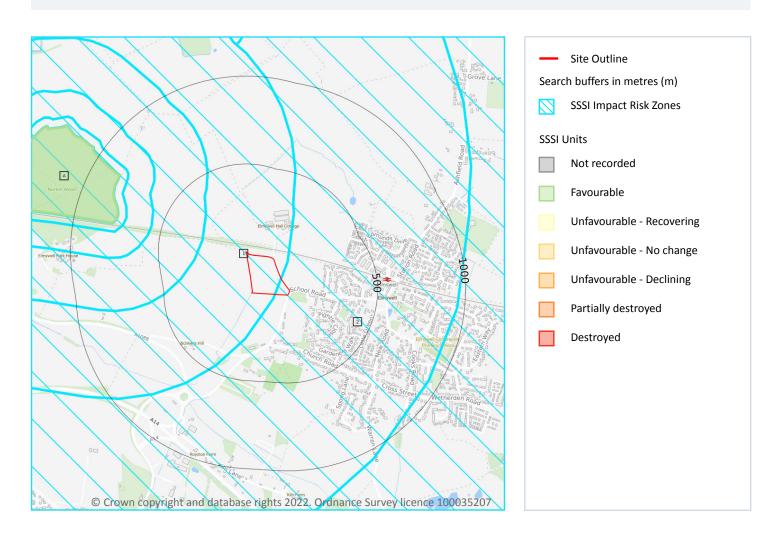
This data is sourced from Natural England and Natural Resources Wales.





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SSSI Impact Zones and Units



10.17 SSSI Impact Risk Zones

Records on site 2

> info@groundsure.com 08444 159 000

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





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ID	Location	Type of developments requiring consultation
1	On site	Infrastructure - Pipelines, pylons and overhead cables. any transport proposal including road, rail and by water (excluding routine maintenance). airports, helipads and other aviation proposals. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, review of minerals permissions (romp), extensions, variations to conditions etc. oil & gas exploration/extraction. Residential - Residential development of 100 units or more. Rural residential - Any residential development of 50 or more houses outside existing settlements/urban areas. Air pollution - Any industrial/agricultural development that could cause air pollution (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 200m², manure stores > 250t). Combustion - General combustion processes >20mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Waste - Landfill. incl: inert landfill, non-hazardous landfill, hazardous landfill. Composting - Any composting proposal with more than 500 tonnes maximum annual operational throughput. incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management. Water supply - Large infrastructure such as warehousing / industry where net additional gross internal floorspace is > 1,000m² or any development needing its own water supply.
2	On site	Infrastructure - Pipelines, pylons and overhead cables. any transport proposal including road, rail and by water (excluding routine maintenance). airports, helipads and other aviation proposals. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, review of minerals permissions (romp), extensions, variations to conditions etc. oil & gas exploration/extraction. Air pollution - Any industrial/agricultural development that could cause air pollution (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 200m², manure stores > 250t). Combustion - General combustion processes >20mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Waste - Landfill. incl: inert landfill, non-hazardous landfill, hazardous landfill. Composting - Any composting proposal with more than 75000 tonnes maximum annual operational throughput. incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management. Water supply - Large infrastructure such as warehousing / industry where total net additional gross internal floorspace following development is 1,000m² or more.

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m 1

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

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





Grid ref: 598278 264005

ID:

Location: 760m W SSSI name: Norton Wood Unit name: Norton Wood

Broad habitat: Broadleaved, Mixed And Yew Woodland - Lowland

Condition: Favourable

Reportable features:

Feature name	Feature condition	Date of assessment
Lowland mixed deciduous woodland	Favourable	06/10/2006

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

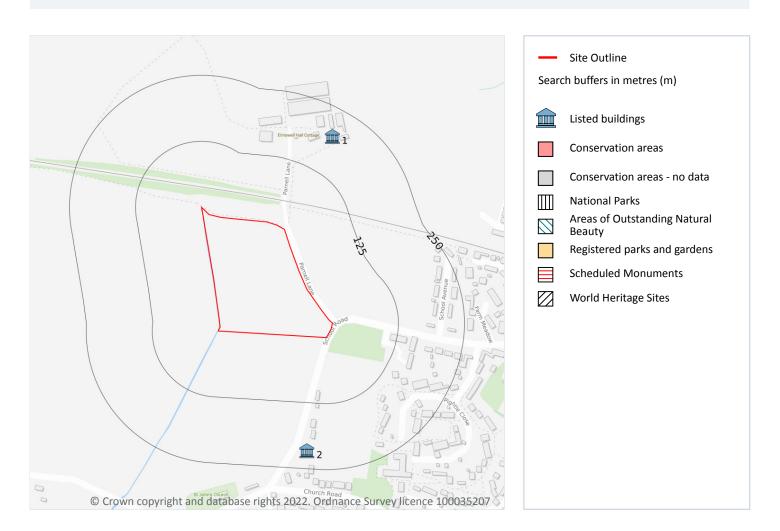


Date: 4 November 2022



Grid ref: 598278 264005

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.





Grid ref: 598278 264005

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 2

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 61

ID	Location	Name	Grade	Reference Number	Listed date
1	198m NE	Elmswell Hall, Elmswell, Mid Suffolk, Suffolk, IP30	П	1032472	15/11/1954
2	216m S	Church Cottage, Elmswell, Mid Suffolk, Suffolk, IP30	П	1352411	09/05/1988

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





Grid ref: 598278 264005

11.5 Conservation Areas

Records within 250m 0

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

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

11.6 Scheduled Ancient Monuments

Records within 250m 0

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

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

11.7 Registered Parks and Gardens

Records within 250m 0

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

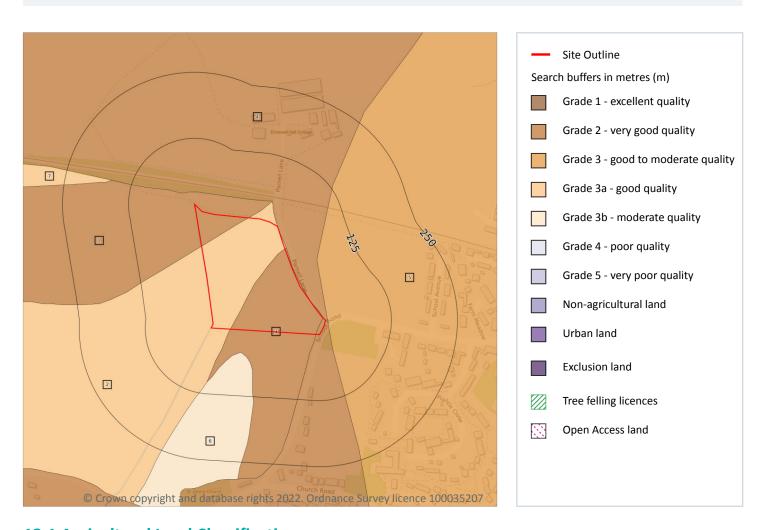
This data is sourced from Historic England, Cadw and Historic Environment Scotland.





Grid ref: 598278 264005

12 Agricultural designations



12.1 Agricultural Land Classification

Records within 250m 7

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 64





Grid ref: 598278 264005

ID	Location	Classification	Description
1	On site	Grade 2	Very good quality agricultural land. Land with minor limitations which affect crop yield, cultivations or harvesting. A wide range of agricultural and horticultural crops can usually be grown but on some land in the grade there may be reduced flexibility due to difficulties with the production of the more demanding crops such as winter harvested vegetables and arable root crops. The level of yield is generally high but may be lower or more variable than Grade 1.
2	On site	Grade 3a	Good quality agricultural land. Land capable of consistently producing moderate to high yields of a narrow range of arable crops, especially cereals, or moderate yields of a wide range of crops including cereals, grass, oilseed rape, potatoes, sugar beet and the less demanding horticultural crops.
3	On site	Grade 2	Very good quality agricultural land. Land with minor limitations which affect crop yield, cultivations or harvesting. A wide range of agricultural and horticultural crops can usually be grown but on some land in the grade there may be reduced flexibility due to difficulties with the production of the more demanding crops such as winter harvested vegetables and arable root crops. The level of yield is generally high but may be lower or more variable than Grade 1.
4	On site	Grade 2	Very good quality agricultural land. Land with minor limitations which affect crop yield, cultivations or harvesting. A wide range of agricultural and horticultural crops can usually be grown but on some land in the grade there may be reduced flexibility due to difficulties with the production of the more demanding crops such as winter harvested vegetables and arable root crops. The level of yield is generally high but may be lower or more variable than Grade 1.
5	4m SE	Grade 3	Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.
6	43m S	Grade 3b	Moderate quality agricultural land. Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.
7	163m NW	Grade 3a	Good quality agricultural land. Land capable of consistently producing moderate to high yields of a narrow range of arable crops, especially cereals, or moderate yields of a wide range of

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.





Grid ref: 598278 264005

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

12.3 Tree Felling Licences

Records within 250m 0

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m 0

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

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m 0

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

This data is sourced from Natural England.





Grid ref: 598278 264005

13 Habitat designations

13.1 Priority Habitat Inventory

Records within 250m 0

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

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m 0

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

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m 0

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

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m 0

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

This data is sourced from Natural England.



Contact us with any questions at: Date: 4 November 2022

info@groundsure.com
08444 159 000



Grid ref: 598278 264005

14 Geology 1:10,000 scale - Availability



14.1 10k Availability

Records within 500m

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





Grid ref: 598278 264005

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.





Grid ref: 598278 264005

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.





Grid ref: 598278 264005

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.

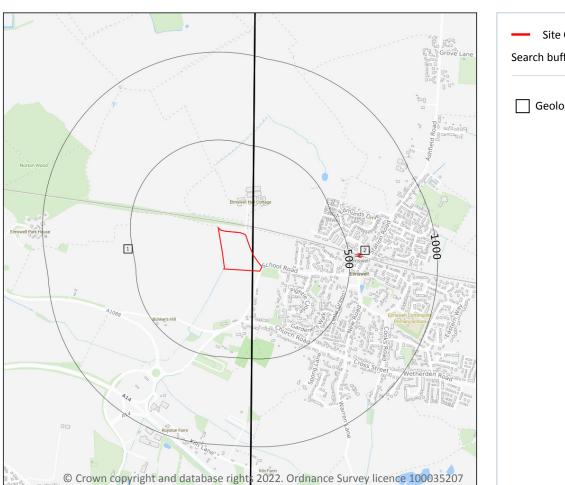
This data is sourced from the British Geological Survey.





Grid ref: 598278 264005

15 Geology 1:50,000 scale - Availability





15.1 50k Availability

Records within 500m 2

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	EW189_bury_st_edmunds_v4
2	On site	Full	Full	Full	No coverage	EW190_eye_v4





Grid ref: 598278 264005

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

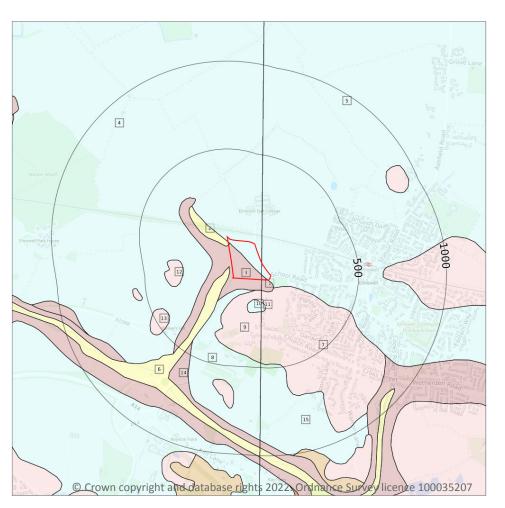
A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).





Grid ref: 598278 264005

Geology 1:50,000 scale - Superficial



Search buffers in metres (m)

Landslip (50k)

Superficial geology (50k)

Please see table for more details.

15.4 Superficial geology (50k)

Records within 500m 15

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	HEAD- XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
2	On site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
3	On site	HEAD- XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL





Grid ref: 598278 264005

ID	Location	LEX Code	Description	Rock description
4	On site	LOFT-DMTN	LOWESTOFT FORMATION	DIAMICTON
5	On site	LOFT-DMTN	LOWESTOFT FORMATION	DIAMICTON
6	17m W	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
7	53m SE	CXSG-XSV	CROXTON SAND AND GRAVEL MEMBER	SAND AND GRAVEL
8	60m S	LOFT-DMTN	LOWESTOFT FORMATION	DIAMICTON
9	60m SE	CXSG-XSV	CROXTON SAND AND GRAVEL MEMBER	SAND AND GRAVEL
10	116m S	LOFT-DMTN	LOWESTOFT FORMATION	DIAMICTON
11	129m S	LOFT-DMTN	LOWESTOFT FORMATION	DIAMICTON
12	278m W	CXSG-XSV	CROXTON SAND AND GRAVEL MEMBER	SAND AND GRAVEL
13	419m SW	CXSG-XSV	CROXTON SAND AND GRAVEL MEMBER	SAND AND GRAVEL
14	424m SW	HEAD- XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
15	474m S	LOFT-DMTN	LOWESTOFT FORMATION	DIAMICTON

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m 4

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	High	Very Low
On site	Mixed	High	Very Low
On site	Mixed	Moderate	Low
17m W	Intergranular	High	Very Low

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Grid ref: 598278 264005

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

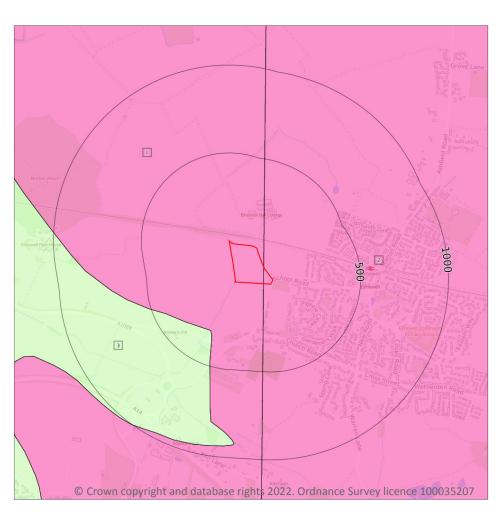
A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any landslip deposits (the zone between the land surface and the water table).





Grid ref: 598278 264005

Geology 1:50,000 scale - Bedrock



Site Outline
Search buffers in metres (m)

Bedrock faults and other linear features (50k)

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

15.8 Bedrock geology (50k)

Records within 500m 3

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

Features are displayed on the Geology 1:50,000 scale - Bedrock map on page 77

ID	Location	LEX Code	Description	Rock age
1	On site	CRAG-S	CRAG GROUP - SAND	-
2	On site	CRAG-S	CRAG GROUP - SAND	-
3	308m SW	LCCK-CHLK	LEWES NODULAR CHALK FORMATION, SEAFORD CHALK FORMATION, NEWHAVEN CHALK FORMATION AND CULVER CHALK FORMATION (UNDIFFERENTIATED) - CHALK	TURONIAN





Grid ref: 598278 264005

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m

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	Intergranular	High	High

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m 0

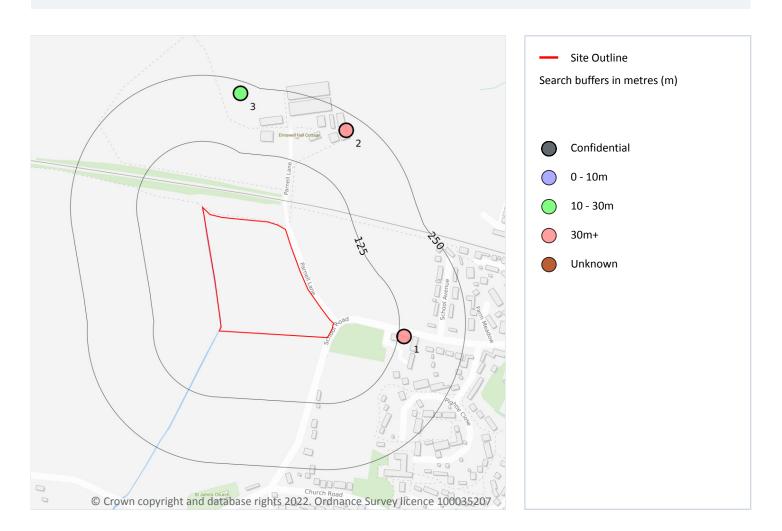
Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.





Grid ref: 598278 264005

16 Boreholes



16.1 BGS Boreholes

Records within 250m 3

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

Features are displayed on the Boreholes map on page 79

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	136m E	598550 263900	PRIMARY SCHOOL, ELMSWELL	67.66	N	556591
2	220m NE	598440 264290	ELMSWELL HALL, ELMSWELL	64.61	N	<u>556585</u>
3	227m N	598240 264360	ELMSWELL HALL ELMSWELL	27.4	N	556641





Grid ref: 598278 264005

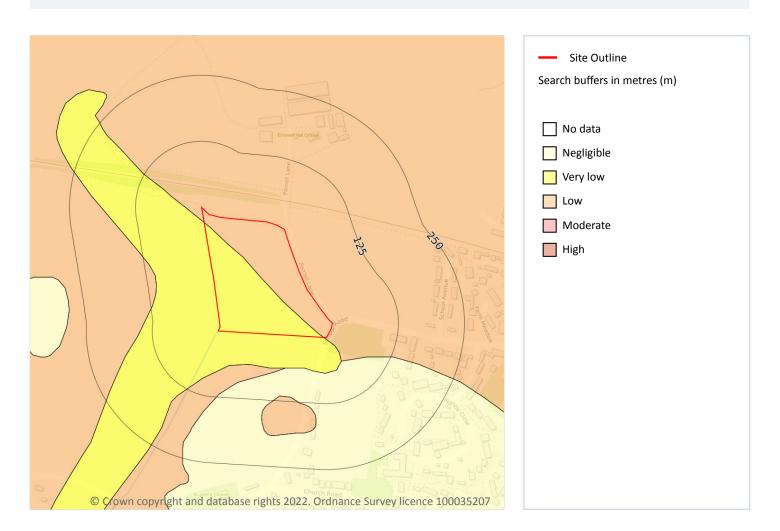
This data is sourced from the British Geological Survey.





Grid ref: 598278 264005

17 Natural ground subsidence - Shrink swell clays



17.1 Shrink swell clays

Records within 50m 2

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

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

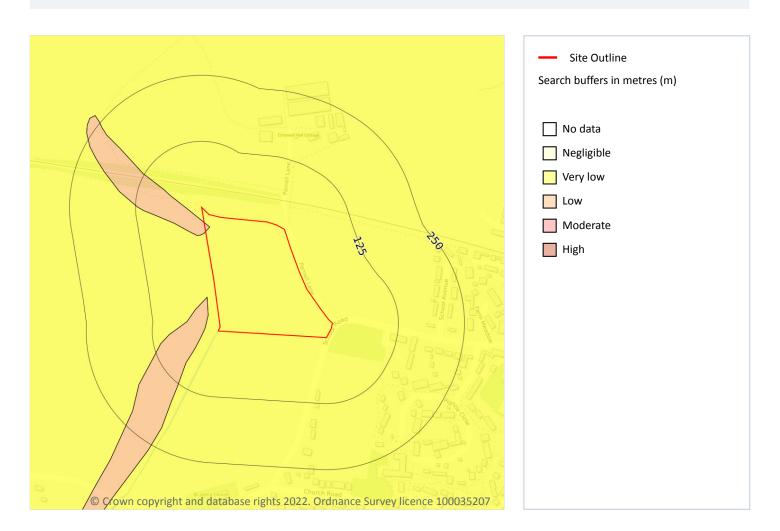
Location	Hazard rating	Details
On site	Very low	Ground conditions predominantly low plasticity.
On site	Low	Ground conditions predominantly medium plasticity.





Grid ref: 598278 264005

Natural ground subsidence - Running sands



17.2 Running sands

Records within 50m 3

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	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.





Grid ref: 598278 264005

Location	Hazard rating	Details
On site	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.
17m W	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.

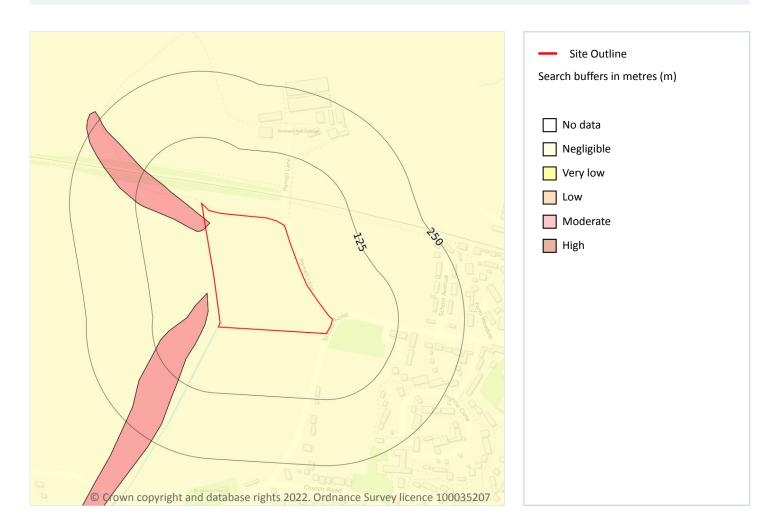
This data is sourced from the British Geological Survey.





Grid ref: 598278 264005

Natural ground subsidence - Compressible deposits



17.3 Compressible deposits

Records within 50m 3

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 84

Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.
On site	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.





Grid ref: 598278 264005

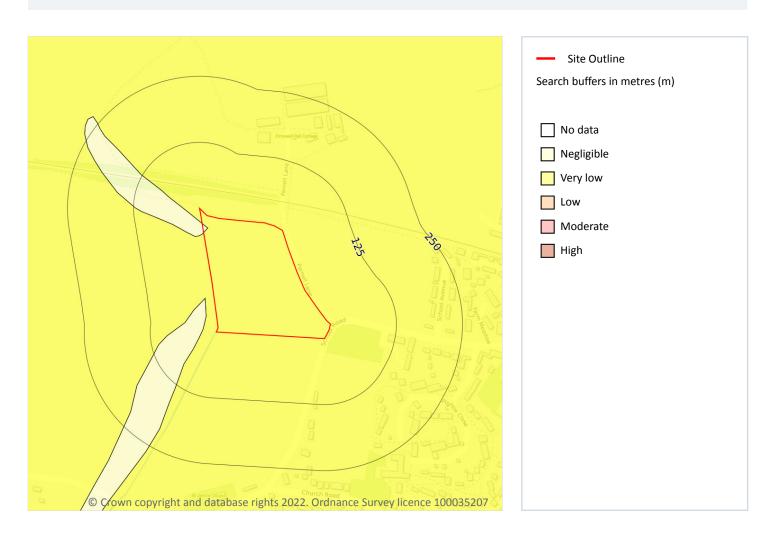
Location	Hazard rating	Details
17m W	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.





Grid ref: 598278 264005

Natural ground subsidence - Collapsible deposits



17.4 Collapsible deposits

Records within 50m 3

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 86

Location	Hazard rating	Details
On site	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.
17m W	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.





Grid ref: 598278 264005

This data is sourced from the British Geological Survey.

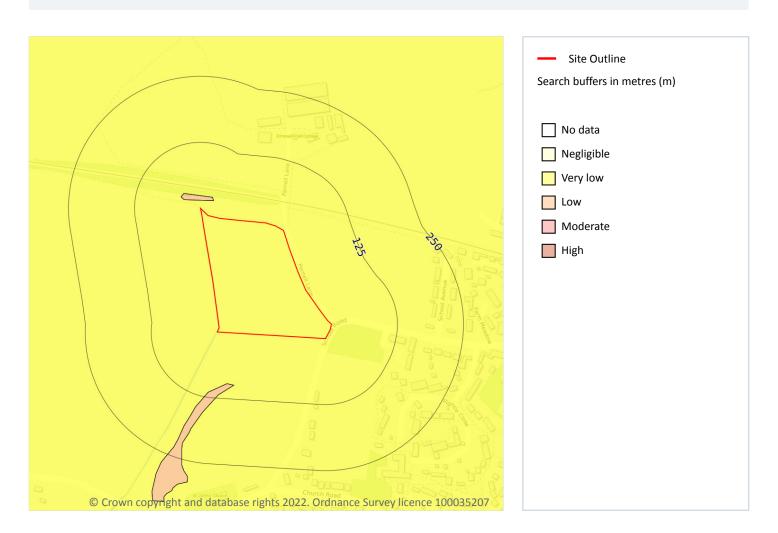


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Grid ref: 598278 264005

Natural ground subsidence - Landslides



17.5 Landslides

Records within 50m 2

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

Features are displayed on the Natural ground subsidence - Landslides map on page 88

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.





Grid ref: 598278 264005

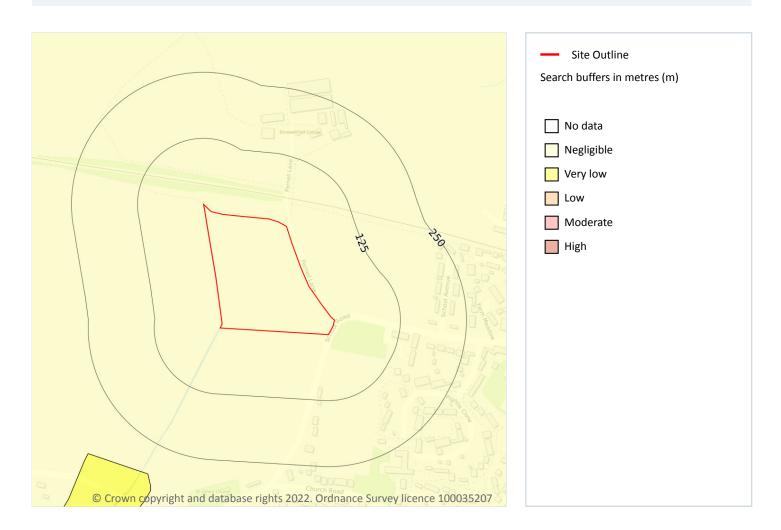
Location	Hazard rating	Details
15m NW	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.





Grid ref: 598278 264005

Natural ground subsidence - Ground dissolution of soluble rocks



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 90**

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.





Grid ref: 598278 264005

This data is sourced from the British Geological Survey.





Grid ref: 598278 264005

18 Mining, ground workings and natural cavities



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.





Grid ref: 598278 264005

18.2 BritPits

Records within 500m 0

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

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m 11

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 92

ID	Location	Land Use	Year of mapping	Mapping scale
А	42m N	Cuttings	1905	1:10560
А	51m NE	Cuttings	1950	1:10560
А	51m NE	Cuttings	1883	1:10560
В	60m NE	Cuttings	1978	1:10000
В	70m NE	Cuttings	1950	1:10560
В	72m NE	Cuttings	1883	1:10560
В	72m NE	Cuttings	1905	1:10560
В	113m NE	Cuttings	1950	1:10560
1	181m NE	Pond	1883	1:10560
2	187m N	Ponds	1905	1:10560
С	238m S	Unspecified Pit	1883	1:10560

This is data is sourced from Ordnance Survey/Groundsure.





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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 3

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

Features are displayed on the Mining, ground workings and natural cavities map on page 92

ID	Location	Name	Commodity	Class	Likelihood
4	308m SW	Not available	Chalk	A	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered
5	327m SW	Not available	Chalk	А	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered
9	762m SW	Not available	Chalk	А	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered

This data is sourced from the British Geological Survey.



Contact us with any questions at: Date: 4 November 2022

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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

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.





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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.

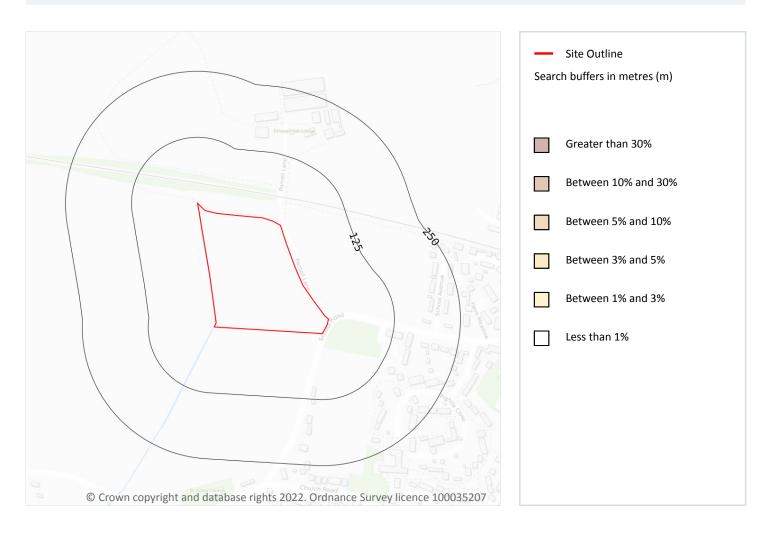
This data is sourced from the Kaolin and Ball Clay Association (UK).





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19 Radon



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 97

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.





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20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m 12

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
2m E	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
2m E	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
17m W	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





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between the measured sample locations (4 per km²).

This data is sourced from the British Geological Survey.

20.3 BGS Measured Urban Soil Chemistry

Records within 50m 0

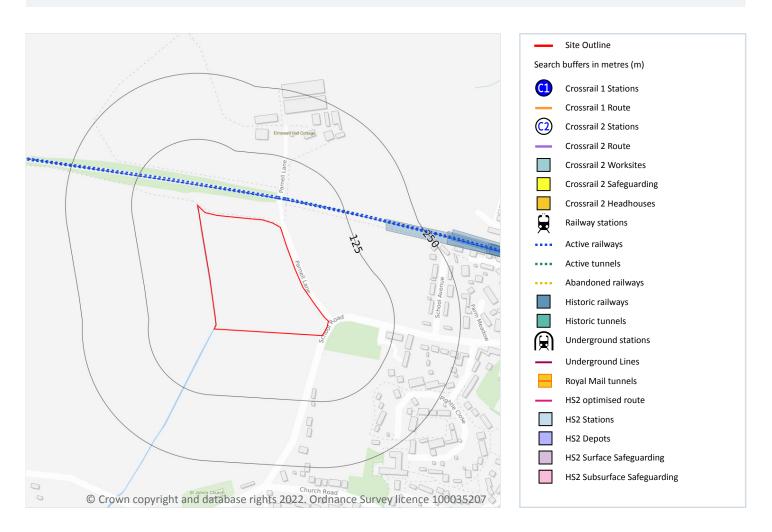
The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km².





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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

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.







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This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m

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

Railways and tunnels digitised from historical Ordnance Survey mapping as scales of 1:1,250, 1:2,500, 1:10,000 and 1:10,560.

Features are displayed on the Railway infrastructure and projects map on page 100

Location	Land Use	Year of mapping	Mapping scale
187m E	Railway	1884	-

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m 0

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

This data is sourced from Groundsure/the Postal Museum.

21.6 Historical railways

Records within 250m 0

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

This data is sourced from OpenStreetMap.





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21.7 Railways

Records within 250m 13

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways. Features are displayed on the Railway infrastructure and projects map on **page 100**

Location	Name	Туре
38m N		rail
38m N	Not given	Multi Track
41m N		rail
45m N	Not given	Multi Track
47m N		rail
49m NE		rail
51m N		rail
51m NE		rail
52m NE		rail
54m NE		rail
64m NE	Not given	Multi Track
65m NE	Not given	Multi Track
99m E	Not given	Multi Track

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 Crossrail 1

Records within 500m 0

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

This data is sourced from publicly available information by Groundsure.





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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.





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Data providers

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

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