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## Phase One Environmental Site Assessment

## FS429 – Sleaford Service Station

## **Motor Fuel Group Limited**

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Making Sustainability Happen

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## 1.0 Introduction

#### 1.1 Appointment

SLR Consulting Limited (SLR) was commissioned by Motor Fuel Group Limited (MFG) to undertake a Phase One (desk study) environmental assessment of FS429 Sleaford Service Station, A325 Farnham Road, Kingsley, North Bordon, Hampshire GU35 0QP (the site). The site's location is shown on Drawing 01.

The works were carried out in accordance with the terms and conditions set out in the SLR proposal submitted to MFG via email (Ref. 427.009905.00001); dated 8th December 2023.

Report preparation has been coordinated by the SLR Land Quality and Remediation Team, Nottingham Office, 15 Middle Pavement, Nottingham, NG1 7DX (Tel: 0115 964 7280). Any enquiries relating to this report should be addressed to this office.

#### 1.2 Objectives and Background

This assessment was requested to support a planning application for redevelopment of the site.

SLR understands that the re-development proposal for the site comprises demolition of an existing jet wash and the creation of a charging zone to include installation of EV chargers, new canopy, four jet wash bays, LV panel, meter cabinet, sub-station enclosure and associated forecourt works. SLR has not been advised of any proposed works to fuel infrastructure. A proposed development drawing is included at Appendix A.

This assessment provides information about the environmental condition of the site including site history, current uses, geology, hydrogeology and hydrology. This information will be used to create a Conceptual Model and assess potential contaminant sources, pathways and receptors associated with the site. Where significant risks are identified, recommendations for further works are included.

#### 1.3 Scope of Work

The programme of investigation and assessment works undertaken included the following key elements:

review of geological and hydrogeological data for the site;

analysis of historical maps to establish the history of the site as well as past on and off site potentially contaminative activities;

collection and analysis of environmental data from a proprietary database; and

preparation of site conceptual model and recommendations for further assessment, as required.

## 2.0 Phase One Desk Study

#### 2.1 Introduction

The purpose of a Phase One environmental assessment is to introduce the site and present a preliminary environmental risk assessment. The assessment collates information concerning potential contaminants, pathways and receptors and other relevant characteristics of the site and its surrounds. This involves a study of the site's current and historical land use and is achieved via a combination of desk-based research, site reconnaissance and regulatory consultation.

The scope of work comprised:

reviewing previous studies/investigations carried out at the site for which reports have been provided to SLR;

review of the current and historical uses of the site and surrounding area, including any current or past potentially contaminative activities, to identify potential contaminant linkages;

reviewing the underlying soils and the geological, hydrological and hydrogeological features, including any abstraction or discharge consents within the vicinity of the site;

reviewing pertinent accessible information from regulatory authorities and other sources such as Environment Agency (EA), local Petroleum Licensing Authority (PLA), GroundSure, the British Geological Survey (BGS) and the Ordnance Survey;

undertaking a site visit to inspect fuel storage and distribution infrastructure and examine records at the adjacent petrol filling station (PFS);

monitoring and obtaining groundwater samples (where possible) from existing groundwater monitoring wells;

collation of information about the site's setting and conditions to form a Conceptual Site Model including a review of contaminant sources, pathways and receptors applicable to the site; and

preparation of this report, detailing the collated information and recommendations for further investigation works, if deemed necessary to meet the requirements of the local planning authority.

It should be noted that the site inspection did not extend to any underground features, any enclosed spaces where special entry precautions would have been required, the structural condition of buildings, the geotechnical stability of walls or the potential environmental impact on any media other than that of the land. An asbestos survey was not carried out.

A Phase One environmental assessment can only indicate the potential for contamination to be present on site and refers to conditions present at the site at the time of the study.

#### 2.2 Environmental Setting

Table 2-1 provides a summary of the site details and environmental setting based on a review of published information and previous assessment reports. The site location is indicated on Drawing 01 and the site layout is shown on Drawing 02. Photographs taken during SLR's walkover carried out on 4<sup>th</sup> January 2024 are presented in Appendix B.

Detail	Sleaford Service Station
Location	The site is located at the following address: Sleaford Service Station, A325 Farnham Road, Kingsley, North Bordon, Hampshire GU35 0QP. National Grid Reference 480383, 138513 (Drawing 01).
Site Description and Use	SLR undertook a site walkover on 4 <sup>th</sup> January 2024. The site occupies an area of approximately 0.24 hectares. The site's main forecourt area is roughly rectangular occupying the north, west and central area of the site. Undeveloped, grassed areas extend along the eastern and southern site boundaries. The site is an operational petrol filling station (PFS) with four fuel dispensers located centrally under a canopy and a further fifth fuel dispenser for HGVs. The site shop is located immediately southwest of the canopied forecourt area. The operational underground fuel tanks are located both centrally to the most northern pump islands (Tank 1) and to the east of the canopied forecourt area (Tank 2 to Tank 5). Above ground off-set fill points and tank vents are located immediately west of the main tank farm, east of the canopied forecourt. One jet wash by is located in the east of the site shop, south of the HGV fuel
	dispenser and main tank farm. Hardstanding comprises asphalt north of the canopied forecourt. Brick paviour forms the hardstanding around the canopied forecourt area, with concrete extending along the boundary in the west, east, tanker refuelling area and the jet wash bay. There are small areas of soft landscaping along the western site boundary and large areas along the southern and eastern areas of the site.
Drainage	<ul> <li>Two interceptors are present on site:</li> <li>Surface water drainage from the forecourt is routed via a series of Aco drains along the western and eastern sides of the forecourt to a three-stage oil/water interceptor located southwest of the site shop. This appeared to discharge to a manhole further southwest which discharges off-site southwest towards the adjacent road (A325) to an unknown location.</li> <li>A three-stage jet wash interceptor, located south of the jet wash takes all water from the jet wash catchpit. The outfall was routed to the same</li> </ul>
	manhole as the oil/water interceptor outfall. The interceptor's outfall cannot be determined, although given the known absence of water company mains drainage in the local vicinity (determined from public utility plans obtained in 2018 for a site investigation at the site), the interceptors are considered likely to discharge into to the adjacent River Slea or soakaway. A buried services survey was undertaken in 2018 in relation to a site investigation undertaken in 2019 at the site. At the time of the buried services survey multiple manholes were surcharged with raw sewage preventing the full survey to be carried out (foul drainage manholes are labelled MH1 and MH3, see Drawing 02). The manhole led to a further manhole noted as a possible septic tank in the southeast of the site (labelled MH4, see Drawing 02).
	The foul drainage system was again surcharged in 2024 and therefore SLR was unable to visually assess the foul drainage at the site. The Envirolnsight Report (Appendix C) holds records of licensed discharge consents for site drainage from the site into the River Slea. Also, consents are held for the discharge of treated effluent (sewage) to the Alluvium over Folkestone strata. Therefore, supporting the presence of a possible septic tank in the southeast of the site.



Detail	Sleaford Service	Station
Surrounding Land Use	North	Immediately north lies a car dealership, with a MOT and servicing centre. A residential property lies beyond, approximately 90m north.
	East	Car parking used by the adjacent car dealership (north of the site). River Slea and woodland located beyond, approximately 15m east.
	South	Car parking used by the adjacent car dealership (north of the site). A ready-mix concrete supplier yard is located beyond, approximately 100m south.
	West	Immediately adjacent is the A325 road; agricultural land lies beyond. A garden centre and building materials supplier are located approximately 100m northwest of the site.
Geography and Hydrology	Topography and gradient	The site is relatively level. The surrounding area has a gentle fall to the east towards the River Slea at a gradient of 1% to 2%.
	Elevation	Approximately 69m above Ordnance Datum (AOD).
	Surface Water	The River Slea is located approximately 15m east from the site at its closest point. The River appears to rest approximately 2.0m to 3.0m below the site's ground level.
	Surface water abstractions	There are no active surface water abstractions located within 2km of the site.
Published Geology and Hydrogeology	Artificial geology	Made Ground is mapped by the BGS to underly the majority of the site centrally and in the east. This deposit of Made Ground extends beyond the site boundary approximately 15m east, 70m south and 120m north beyond the site boundaries up to the edge banks of the River Slea.
		This deposit of Made Ground is considered likely to have been created for raising this area of land to a higher, level elevation than the adjacent river for development purposes.
		Intrusive ground investigation works at the site in 2019 recorded Made Ground to 4.1m below ground level (bgl). The base of the Made Ground was not encountered in the east of the site due to borehole refusal at 3.0m bgl at MW103.
	Superficial drift geology	Alluvium (clay, silt, sand and gravel) is mapped by the BGS in the very northwest corner of the site only, with no superficial deposits mapped across almost the entire site. This is considered to be in relation to the Made Ground deposits mapped in this area by the BGS.
		Intrusive ground investigation works at the site in 2019 recorded interbedded peats, clays and sands (Alluvium) in the northern and central area of site to the maximum drill depth of 6.0m bgl (MW101 and MW102).
		The natural ground was not encountered in borehole MW103.
	Solid geology	Folkestone Formation (sandstone) is mapped by the BGS to underly the entire site.
		Intrusive ground investigation works at the site in 2019 did not record sandstone bedrock at the maximum drill depth of 6.0m bgl.



Detail	Sleaford Service Station			
	Aquifer Status	The superficial geology is classed as a secondary (A) aquifer. The shallow groundwater recorded between 1.0m and 3.0m bgl at the site is considered to be resting within this aquifer and at times within the Made Ground when the water table rises.		
		The solid geology is classed as a principal aquifer.		
	Groundwater abstractions	There are seven active groundwater abstractions recorded within 2km of the site.		
		The nearest abstraction record is located approximately 0.8km northeast of the site and relates to dewatering at Frith End Quarry.		
		The other six records relate to potable groundwater abstractions located approximately 1.1km to 1.6km east of the site at Headly Park pumping station.		
	Source protection zones (SPZ)	The site is not located within a groundwater Source Protection Zone.		

#### 2.3 Site History

The age and general type of activity and land use can often be determined from the type and layout of structures depicted on OS maps. However, specific elements of site operations cannot normally be determined from such extracts. Large scale (1:1,250/2,500) and small scale (1:10,560/1:10,000) historical map extracts were reviewed for selected years between 1870 and 2023, together with current mapping, freely available aerial imagery and previous reports. A summary of the site's history is presented in Table 2-2 below and copies of the maps are presented in Appendix D.

Table 2-2: Historical Land Use Summary
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Location	Land Use Summary
On-site	The earliest available maps from 1870 shows the site to comprise undeveloped land.
	Mapping and the local Petroleum Licensing Authority (PLA) records indicate the site was first developed in the early 1970s as part of a garage. From at-least the 1980s the site was used for petroleum sales; four pump islands were marked centrally on a forecourt under a small canopy and a small building was located beyond to the southeast (likely a site shop). In the 1990s the site was configured to its current layout as a PFS.
	No changes have occurred on the site since.
Off-site	In the earliest available mapping from 1870, the immediate surrounding land generally comprised undeveloped land and agricultural land with few farm dwellings. A road is present immediately west of the site trending north to south.
	Very little significant development is depicted in the surrounding land until the 1970s, when a large sand pit and associated structures are depicted approximately 50m southeast of the site, on the adjacent side of the River Slea. Additionally, a garage was built immediately north of the site by 1971 and a poultry farm was constructed by 1973 approximately 100m south.
	In the early 2000s, a large commercial property was developed approximately 100m northwest of the site.

The historical maps indicate the site and surrounding land comprised undeveloped land and agricultural land with few residential and farm buildings since the 1870s. Significant



development occurred in the early 1970s to include construction of a garage immediately north of the site and a sand pit was excavated approximately 50m southeast of the site on the adjacent side of the River Slea. The site was extended onto as part of the garage adjacent to the north by the mid-1970s. First use of the site for petroleum sales is depicted in mapping and PLA records from at-least the mid-1980s. The site layout was re-configured to its current layout in the early 1990s.

The most significant potentially contaminative land uses on and in the in the vicinity of the site are considered to be the storage and dispensing of fuel at the site itself.

#### 2.4 Fuel Infrastructure

Information obtained during the site walkover in January 2024 is combined in Table 2-3.

Tanks 1 to 5 comprise five underground storage tanks (USTs). The locations of the current tanks are shown on Drawing 02.

Tank No	Capacity (litres)	Contents	Construction	Age of Installation
1	26,127	Diesel	single skin steel	1984
2	36,150	Unleaded Petrol	single skin steel	1992
3	36,150	Diesel	single skin steel	1992
4	17,542	Unleaded Petrol	single skin steel	1992
5	17,542	Diesel	single skin steel	1992

#### Table 2-3: Tank Summary

The above information is confirmed by information provided by the local PLA (Hampshire County Council, Trading Standards Service) in December 2023.

Furthermore, the PLA records also include information regarding previous site reconfiguration prior to 1992. This indicated the site was used for petroleum sales since approximately the mid-1980s. Six underground storage tanks were present since 1985, predominantly to the north of the site and one central to the pump islands. During the 1992 site redevelopment the historically named Tank 5 (located central to the pump islands) was retained, denoted as the new Tank 1 and changed to diesel storage. The other five historical tanks (Tank 1 to Tank 4 and Tank 6) were decommissioned using concrete slurry fill. Records of new underground storage tanks (Tank 2 to Tank 5) in the west of the site match the current configuration.

The PLA records holds no records of releases of product to the ground.

Fairbanks Environmental Ltd operate the PFS's wet stock management and use a real time continuous wet stock and leak detection statistical inventory reconciliation (SIR) system accredited to 9 litres per day. Fairbanks has confirmed that they have been monitoring the PFS since November 2009 on behalf of MFG. During this period, they have not recorded any evidence of a release of product to the ground. A performance letter from Fairbanks is presented at Appendix E.

## 3.0 Environmental Searches

The Magic website (provides authoritative geographic information about the natural environment from across government) and available EA datasets have been consulted with regard to former landfill sites. The EnviroInsight Report was also reviewed to gain information on publicly available environmental data for the site and immediately surrounding area.

A copy of the Envirolnsight Report information obtained by SLR is contained in Appendix C and a summary of the search information is provided below:

Records of Part A (2) and Part B Activities and enforcements – there are four current Part B type permits located within 500m of the site. Two are listed for the unloading of petrol into storage at service stations for the site itself. The other permits relate to the use of bulk cement approximately 130m south of the site at Sleaford Sand Pit.

Records of Licensed Discharge Consents – there are four records for the site itself relating to licensed discharge consents on-site and up to 15m from the site for sewage discharges to the underlying geology and site drainage to the River Slea.

Environment Agency recorded pollution incidents – there is one recorded pollution incident within 500m of the site, relating to construction and demolition materials and wastes recorded as a category 2 impact (significant) to land, category 4 (no impact) to water and category 3 impact (minor) to air.

Licensed waste sites – three licensed waste sites are recorded within 500m of the site. The records relate to Trottsford Farm located approximately 130m southeast of the site for landfill taking other wastes.

Waste exemptions – there are 106 records of waste exemptions sites within 500m of the site. The closest records are located over 100m from the site and relate mainly to processes on farms including the use of waste in construction, depositing waste from dredging of inland waters, compositing, treatment of waste food, producing biodiesel, use of waste derived biodiesel as fuel, etc.

Industrial land uses – there are four current industrial land use recorded within 100m of the site. Two records relate to the PFS itself and other records relate to the car dealership adjacent off-site to the north. There are three historical industrial land use records within 100m of the site. One record relates to a garage on-site and other records relate to a sand pit located approximately 40m southeast and a refuse heap located approximately 80m south.

Mining Records – there multiple records of surface ground workings, mineral planning areas which all relate to a sand pit located 44m southeast and which was excavated during the 1970s.

Landfill records – There is one record of a historical landfill located 28m southeast beyond the River Slea within the limits of the old sand pit. Waste type are not mentioned.

Historical Tanks – there are six records of historical tanks within 500m of the site. The nearest four records are approximately 180m to the south of the site and date from 1971.

Historical Garages – there are four records of historical garages within 500m of the site. All records relate to the site itself and are dated between 1971 and 1990.

Sensitive Land Uses – the site is located within a SSSI impact risk zone in relation to Broxhead and Kingsley Commons (SSSI) located approximately 250m southeast and



300m southwest at its closest points There are no further designated environmentally sensitive sites within 1km.

Groundwater and surface water abstraction data are described in section 2.2.

No major concerns have been revealed with respect to the planned development from the above search data.

## 4.0 **Previous Reports**

SLR is aware of two previous assessments at the site (see Table 4-1 and below summary).

**Table 4-1: Previous Site Assessments** 

Ref	Date	Document Title and Author		
427.02082.00163.FS429	August 2021	Sleaford Service Station SLR Consulting Ltd; Site Investigation and Groundwater Monitoring Report		
427.02082.00163.FS429	January 2023	Sleaford Service Station SLR Consulting Ltd; Site Investigation and Groundwater Monitoring Report		

## SLR Consulting Ltd; Site Investigation and Groundwater Monitoring Reports (2021 - 2023):

A site investigation was undertaken on-site comprising the drilling of three boreholes (MW101 to MW103) to a maximum depth of 6.0m bgl (below ground level) in May 2019.

Made Ground was encountered to depths between 2.0m and 4.1m beneath the site (natural ground was not encountered in borehole MW103 due to refusal at 3.0m bgl).

Made Ground deposits generally comprised variable sandy gravels and gravelly sands in boreholes MW101 and MW102, whereas clayey gravels and gravelly clays were present in borehole MW103.

Natural ground comprised interbedded peat, sand and clay to a maximum depth of 6.0m (MW101 and MW102 only). No bedrock geology was encountered during the site investigation.

No visual or olfactory evidence of hydrocarbons was noted during the investigation; low elevated hydrocarbon vapour headspace readings were noted in the soils (<10ppm).

Soil samples submitted for laboratory analysis recorded trace to low concentrations of diesel range organics in samples of Made Ground across the site (max of 820mg/kg at 1.0m bgl in MW102). Concentrations of BTEX (benzene, ethyl benzene, toluene and xylenes) and the fuel additive MTBE (methyl tert-butyl ether) did not exceed the laboratory method detection limit (MDL) in all samples.

Groundwater was recorded at 1.0m to 3.0m bgl from 2019 to 2021 (three groundwater monitoring visits).

LNAPL (i.e. floating product) was not detected.

The 2019 groundwater samples recorded moderate concentrations of dissolved phase hydrocarbons and trace concentrations of BTEX in MW103 only. Low to moderate concentrations of the fuel additive MTBE were recorded in all three wells.

Concentrations showed a significant decreasing trend and in 2021 groundwater samples did not record concentrations of dissolved phase hydrocarbons and BTEX above the laboratory MDL. Trace to low concentrations of MTBE were recorded in all wells sampled.

## 5.0 Groundwater Monitoring and Sampling

#### 5.1 Methodology

SLR's groundwater monitoring visit and site walkover undertaken on the 4<sup>th</sup> January 2024 identified monitoring wells MW101 to MW103 to be present; however, well MW102 was unable to be accessed due to a seized well cover. Monitoring well locations are shown on Drawing 02.

All viable wells were subject to headspace hydrocarbon vapour monitoring and groundwater samples were obtained using low disturbance sampling techniques.

#### 5.2 Groundwater Monitoring Data

A summary of groundwater conditions is presented below in Table 5-1.

Well ID	Screened Interval (m)	Cover level (mATBM)	Well Headspace VOCs (ppmv)	Depth to Water (m)	Water Elevation (mATBM)	LNAPL (mm)
MW101	1.0 - 6.0	10.26	1.8	1.71	8.55	ND
MW102	1.0 - 6.0	10.01	UTA – seized well			
MW103	1.0 - 3.0	10.55	0.0	1.58	8.97	ND

#### Table 5-1: Groundwater Monitoring Data

Ground levels measured relative to a point on site designated a temporary site benchmark of 10.00 (mATBM). ND – Not Detected

LNAPL - Light Non Aqueous Phase Liquid

ppmv - parts per million by volume volatile organic compounds measured using a photoionization detector (PID)

#### 5.3 Laboratory Analysis – Groundwater Samples

Groundwater samples were obtained from MW101 and MW102 using low disturbance sampling techniques.

Samples were submitted to the laboratory under full chain of custody documentation and scheduled for analysis for petroleum hydrocarbon fractions (TPHCWG) including the fuel additive MTBE and BTEX compounds. Certificates are presented at Appendix F.

#### 5.4 Laboratory Data - Groundwater

The groundwater samples were analysed for a range of hydrocarbon fractions (TPH CWG, BTEX) and the fuel additive MTBE. The laboratory certificate is presented at Appendix F.

The groundwater samples recorded minimal concentrations of dissolved phase hydrocarbons in well MW101 (0.02mg/l) and all other wells sampled did not record concentrations above laboratory MDL. Concentrations of BTEX were not recorded at concentration above the laboratory MDL in all wells sampled. The fuel additive MTBE was recorded at low concentrations in well MW101 (0.055mg/l) and at trace concentrations in well MW103 (0.0002mg/l).

#### 5.4.1 Human Health Risk

Identified human health receptors included the onsite shop and adjacent commercial properties. Since the Generic Assessment Criteria (GAC) for residential receptors are more conservative, groundwater laboratory data have been compared against these GAC.



These GAC have been derived by SLR using the RBCA model and following the CLEA methodology for on-site human receptors, controlled waters, and a continued retail petroleum filling station use of the site. The GAC and the output sheets are presented at Appendix G and H.

There are no recorded hydrocarbon concentrations in the groundwater samples that are in excess of the GAC with respect to potential risks to human health.

#### 5.4.2 Controlled Waters Risk

Due to the nature of the sites hydrogeological and hydrological setting, it is of a high environmental sensitivity with respect to controlled waters. This is due to the River Slea being located approximately 15m east of the site, the site being underlain by a shallow secondary (A) aquifer and a deeper principal aquifer. The shallow groundwater beneath the site is in direct continuity with the adjacent River Slea and this is considered the primary controlled waters receptor with respect to the site.

The laboratory results recorded negligible concentrations of dissolved phase hydrocarbons in well MW101 which only just meet the laboratory MDL and are not in excess of effective solubility. Furthermore, concentrations were not recorded above laboratory MDL in well MW103, which is located in a key downgradient position of the fuel infrastructure between the infrastructure and the surface water receptor.

The relatively low recorded concentrations of MTBE in both groundwater samples is not considered to present an unacceptable risk as MTBE is primarily a taint with respect to potable water (drinking water). This acceptable risk is due to the site not being located within an SPZ, the nearest potable groundwater abstraction is located over 1km from the site and no concentration thresholds have been set for surface waters.

#### 5.4.3 Overall Groundwater Risk

Based on the above results, SLR considers that the analysed groundwater samples are not impacted by petroleum hydrocarbons at sufficient concentrations to pose unacceptable risks to either human health or controlled water receptors.

### 6.0 Preliminary Conceptual Site Model

This report section uses the information gathered in previous sections and aims to identify the potential Contaminants, Pathways and Receptors present with respect to the site and assess their significance and acceptability.

When considering the contaminants, receptors and pathways relevant to this site, SLR has been mindful of the site's continued use as a petrol filling station.

The statutory guidance for Part IIA, DEFRA Circular 04/121, defines a Contaminant as:

"a substance which is in, on or under the land and which has the potential to cause significant harm to a relevant receptor, or to cause significant pollution of Controlled Waters."

Based on PLA records and historical mapping it appears the site was first developed in the 1970s when the immediately adjacent garage to the north expanded its boundary onto the site. First known development as a PFS occurred at-least as early as the mid-1980s. The site underwent redevelopment in the early 1990s to its current layout. No further changes have occurred since.

The proposed development comprises demolition of an existing jet wash and the creation of a charging zone to include installation of EV chargers, new canopy, four jet wash bays, LV panel, meter cabinet, sub-station enclosure and associated forecourt works. SLR has not been advised of any proposed works to fuel infrastructure.

The most significant potentially contaminative land uses on and in the in the vicinity of the site are the storage and dispensing of fuel at the site itself.

The statutory guidance for Part IIA, DEFRA Circular 04/12, defines a Pathway as:

"a route by which a receptor is or might be affected by a contaminant."

Following an assessment of the environmental and geological setting of the site and the land use, it is considered that potential pathways for contaminant impact are present. The validity of each of these pathways is assessed in Table 6-1 below.

The statutory guidance for Part IIA, DEFRA Circular 04/12, defines a Receptor as:

"something that could be adversely affected by a contaminant, for example a person, an organism, an ecosystem, property, or Controlled Waters."

The site will continue to operate as a petrol filling station and is adjacent to commercial properties. The nearest residential properties are located approximately 90m north. Therefore, potential on-site and off-site human health receptors are considered to be present. The 2019 site investigation at the site encountered Made Ground to 4.1m depth. This was underlain by interbedded clays, sands, gravels and peat (Alluvium superficial deposits – classed as a secondary A aquifer) to maximum proven depths of 6.0m bgl in the central and western area of the site, although this is almost certain to extend east towards the river. The underlying Folkestone Formation (sandstone) classed as a principal aquifer was not encountered during the site investigation, although is anticipated at a depth <8.0m bgl. The shallow groundwater beneath the site is in hydraulic continuity with the River Slea located 15m east of the site boundary. Therefore, a controlled waters receptor is also present.

The potential contaminant linkages are detailed in Table 6-1 and Figure 6-1.

<sup>&</sup>lt;sup>1</sup> DEFRA; 2012; EPA 1990: Part2A, Contaminated Land Statutory Guidance, PB13735; April 2012



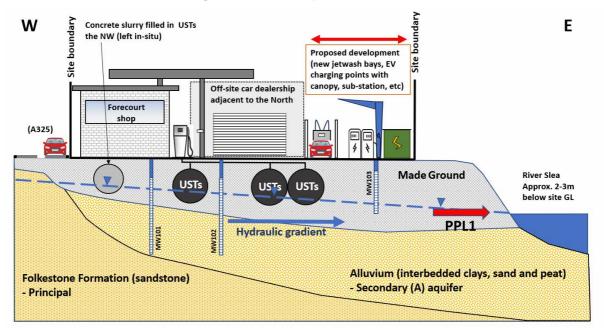
Source	Pathway	Receptors	Significant?	Comments
	Inhalation of	On-site health	No	There are no records of confirmed fuel spills or losses at the site.
	indoor or outdoor air	Off-site health	No	Furthermore, recent laboratory analysis of groundwater did not record hydrocarbon concentrations in excess of the relevant GAC.
	Direct ingestion / dermal contact	On-site health	No	The potential risks to on-site workers and customers from direct contact with any contaminated materials are considered to be negligible due to the proposed redevelopment being predominantly hard surfaced. Short term risks to construction workers can be managed through use
				of appropriate work systems and personal protective equipment.
The site was first developed in the 1970s forming land of the adjacent garage to the north. Known use of the site as a PFS was since at-least the mid-1980s to present day.	Vertical migration of contaminants	Groundwater	No	There are no records of confirmed fuel spills or losses at the site. Made Ground beneath the site (max proven depth ~ 4.1m bgl) is underlain by Alluvium superficial deposits (max proven depth ~ 6.0m bgl) classed as a secondary (A) aquifer. Sandstone bedrock depth is anticipated <8.0m bgl and is classed as a principal aquifer. Previous intrusive investigation assessments in 2019 did not record significant hydrocarbon impact within the shallow soils. Recent laboratory analysis of shallow groundwater did not record significant hydrocarbon concentrations above MDL. Relatively low and trace concentrations of MTBE in groundwater samples are not considered significant as MTBE is primarily a taint with respect to potable water, the site is not located in an SPZ and the nearest potable groundwater abstraction is located over 1km from the site.
	Lateral migration of dissolved contaminants			There are no records of confirmed fuel spills or losses at the site. Furthermore, recent laboratory analysis of groundwater did not record significant hydrocarbon concentrations above MDL. Relatively low and trace concentrations of MTBE in groundwater samples are not considered significant as it's primarily a taint with respect to potable water (drinking water). There are no thresholds in relation to surface water.

#### Table 6-1: Conceptual Site Model and Qualitative Risk Assessment



Source	Pathway	Receptors	Significant?	Comments
				However, a record is held in relation to the site for a licensed discharge of site drainage to the River Slea, dated 2006. SLR was unable to confirm if the foul drainage on-site is directed to the possible septic tank in the southeast and where the interceptor's outfall routes to beyond the site boundary (see Section 2.2). Hence, a preferential pathway to the river may be present for any contaminants mobilised by construction works.
		Ground water abstraction	No	The nearest groundwater abstraction is located approximately 0.8km northeast of the site and relates to dewatering at a Quarry. The site is not located within an SPZ
		wells		and the nearest potable abstraction is located is located approximately 1.1km east of the site.

Figure 6-1: Conceptual Site Model



The conceptual site model has identified one potentially complete pollutant linkage at the site:

PPL1 - potential for mobilisation of contaminants during construction work and migration to the River Slea via a preferential pathway.

## 7.0 Summary & Recommendations

#### 7.1 Summary

With respect to the environmental condition of the site, SLR makes the following observations:

Historic mapping indicates the site was previously undeveloped land since at-least the 1870s.

The site was mapped as being part of the garage adjacent to the north in the 1970s. Known use of the site as a PFS was from at-least in the mid-1980s and the site was re-configured to its current layout in the early 1990s.

Prior to the 1990s re-development, the site comprised a small central canopy with four fuel dispensers and a small shop building located immediately to the southeast. Five USTs were present mainly to the north of the site beneath the entrance and one centrally between the fuel dispensers.

The local PLA hold records of five USTs being decommissioned in 1992 using concrete slurry fill, although it is likely these tanks remain beneath the northern area of the site. The UST located centrally was retained.

Current USTs are present centrally to the pump islands (Tank 1) and to the northeast of the forecourt (Tank 2 to Tank 5).

There are no reported incidents or losses to ground since the site's redevelopment in the mid-1990s in records held by the PLA or by Fairbanks since their monitoring began in 2009.

A car dealership is located immediately adjacent to the north of the site; land immediately east and west of the site is used for vehicle storage. The nearest residential property is located 90m from the site. The majority of the surrounding land beyond is predominantly agricultural or undeveloped.

The site is underlain by up to 4.1m of Made Ground overlying Alluvium (interbedded peat, clay and sand) proven to a depth of at least 6.0m. The superficial deposits are underlain by solid geology of the Folkestone Formation (sandstone) which is anticipated at around a depth of <8.0m.

The Alluvium deposits are classified as a secondary (A) aquifer. The Folkestone Formation is classified as a principal aquifer.

The River Slea located approximately 15m east of the site boundary flows south to north at an elevation approximately 2m to 3m lower than the site.

The nearest groundwater abstraction is located approximately 0.8km northeast for dewatering at a quarry and the nearest potable groundwater abstraction is located approximately 1.1km from the site. The site is not located within a groundwater SPZ.

Recent groundwater monitoring and sampling did not record significant hydrocarbon concentrations above laboratory MDL in the groundwater samples collected at the site. Relatively low concentrations of MTBE were recorded in well MW102 (central to the site) and trace concentrations in the downgradient well (MW103).

The MTBE concentrations referred to above are not considered to pose an unacceptable risk as MTBE is primarily a taint and odour pollutant of potable waters and hence the recorded concentrations are not considered significant in the hydrogeological setting of the site (see Section 5.4.2).

SLR's Conceptual Site Model has not identified unacceptable potential risks to onsite or off-site human health receptors under the proposed redevelopment.

One potentially complete pollutant linkage to controlled waters receptors has been identified in the form of a potential preferential pathway (unconfirmed site drainage discharge) to the River Slea in the event contaminants are mobilised by construction works.

#### 7.2 Recommendations

In view of the absence of identified complete pollutant linkages other than the one potential linkage described above, SLR considers that the proposed development can proceed without further investigation/assessment.

SLR recommends that prior to the start of construction work, a drainage survey is carried out to determine whether there is a connection between the site and the River Slea. In the event such a connection is identified, SLR further recommends that the contractor takes appropriate precautions to ensure any contaminants encountered during construction are not mobilised via this connection.

Finally, SLR recommends that a watching brief is maintained during excavations and that an appropriately experienced environmental consultant is retained in the event contaminated materials are encountered.



## **Drawings**

## **Phase One Environmental Site Assessment**

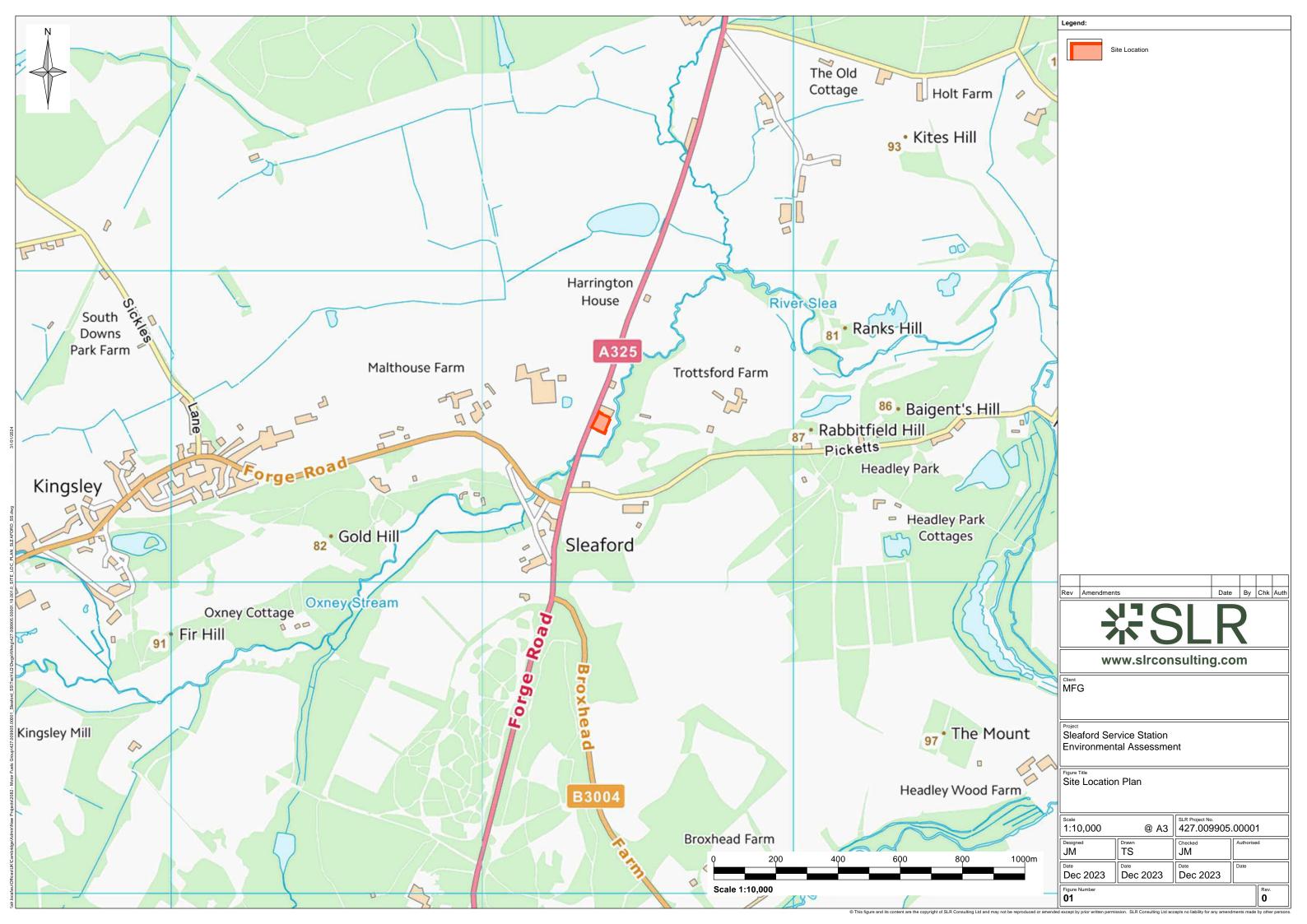
FS429 – Sleaford Service Station

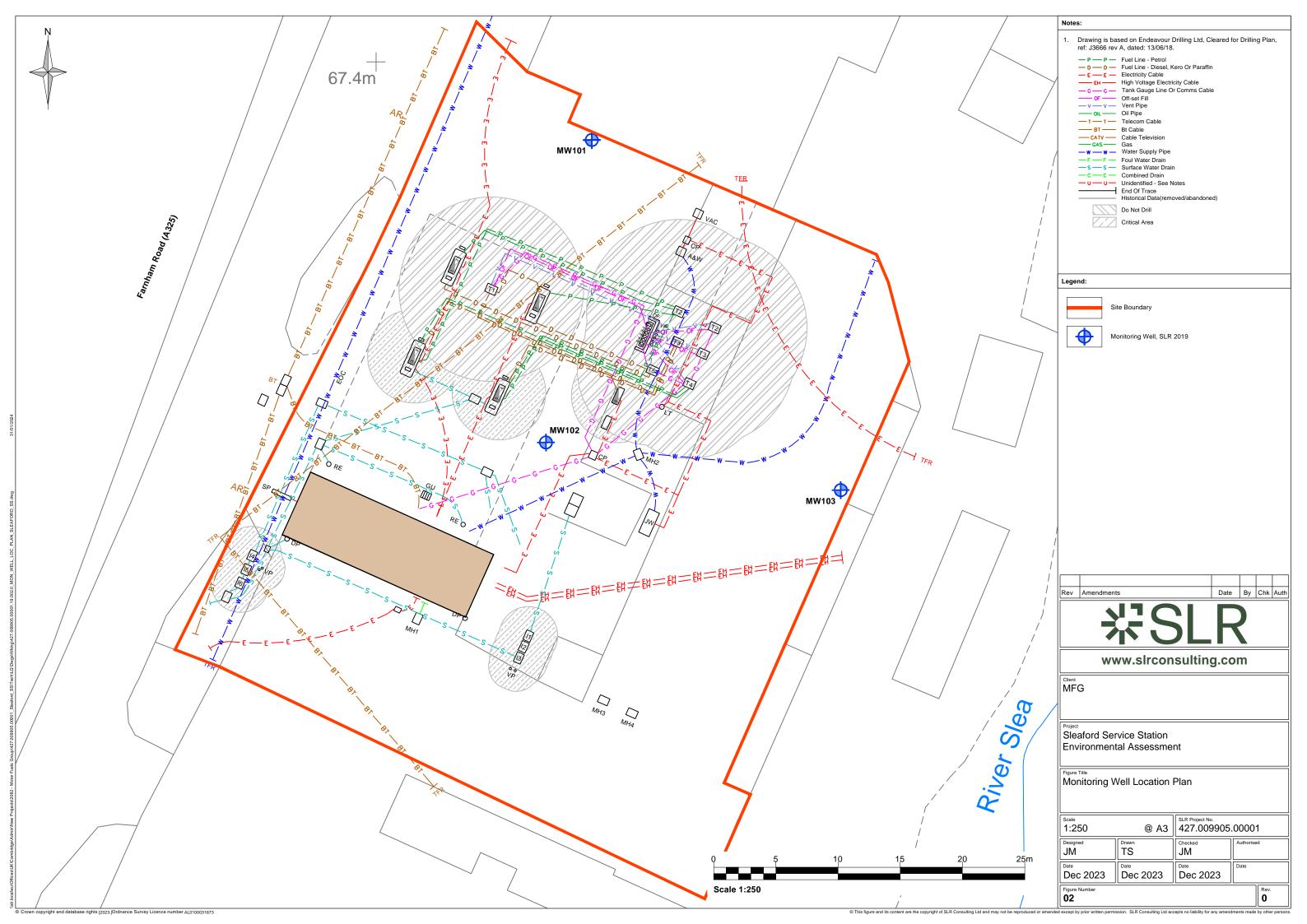
**Motor Fuel Group Limited** 

SLR Project No.:427.000050.00001

2 February 2024









## Appendix A Proposed Development Plan

## **Phase One Environmental Site Assessment**

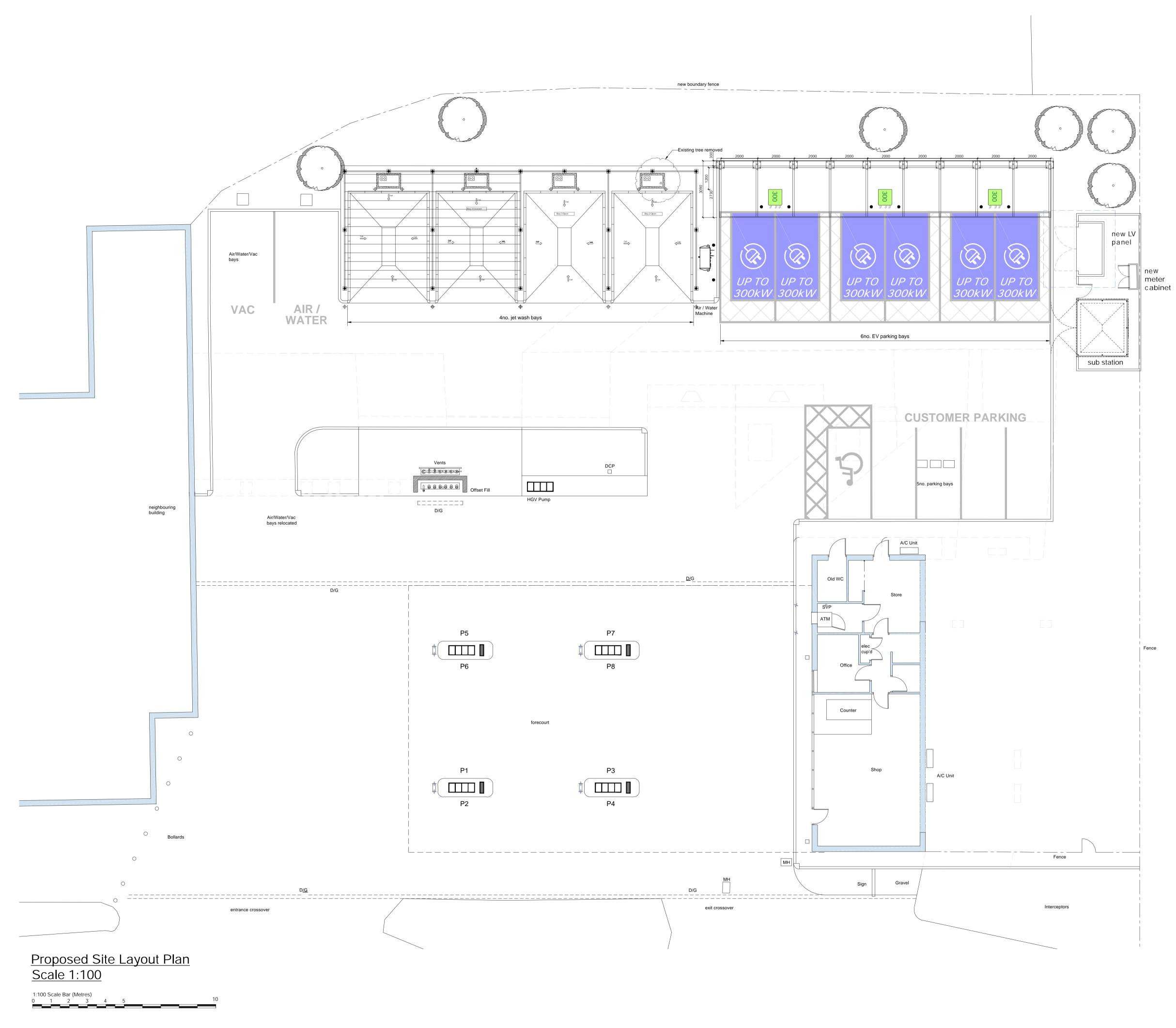
#### FS429 – Sleaford Service Station

**Motor Fuel Group Limited** 

SLR Project No.:427.000050.00001

2 February 2024







08/11/23 AF Drawing created. rev date by description CLIENT



PROJECT LOCATION Sleaford Service Station Farnham Road Sleaford, GU35 0QP DRAWING

Proposed Site Layout Plan



Scale: 1:100

new meter

Fence

The Cart Shed, Amberley Court, Amberley Lane, Milford, Surrey, GU8 5EB, United Kingdom Wyeth © This drawing is the copyright of WYETH PROJECTS SERVICES Ltd.

Draw By: AF A1 November 2023 original plot siz

Dwg No: WPS-MFG-2061-P-03

Rev



## Appendix B Site Photographs

### **Phase One Environmental Site Assessment**

FS429 – Sleaford Service Station

**Motor Fuel Group Limited** 

SLR Project No.:427.000050.00001

2 February 2024



## **Sleaford Service Station**

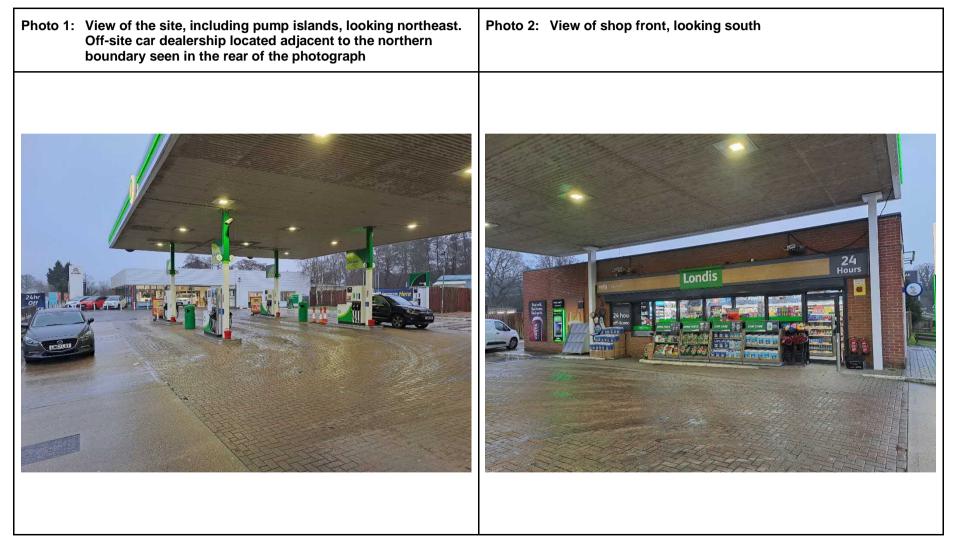






Photo 7: View of an undeveloped grassy area in the south of the site, looking east	Photo 8: View of the proposed redevelopment area in the east of the site, looking north
<image/>	

Photo 9:	View of the River Slea located approximately 15m east of the site.	
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## Appendix C Envirolnsight Report

### **Phase One Environmental Site Assessment**

FS429 – Sleaford Service Station

**Motor Fuel Group Limited** 

SLR Project No.:427.000050.00001

2 February 2024







### unspecified

Date:	21/12/2023
Your ref:	EM S_915356_1134517
Our Ref:	EM S-915356_1167024

## Site Details

Location:	480383 138513
Area:	0.24 ha
Authority:	East Hampshire District Council 7



OS MasterMap site plan

<u>p. 2</u> > Aerial image
<u>p.14</u> > groundsure.com/insightuserguide ↗

Contact us with any questions at: <u>info@groundsure.com</u> ↑ 01273 257 755





unspecified

## Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
<u>15</u> >	<u>1.1</u> >	Historical industrial land uses >	1	1	8	11	-
<u>16</u> >	<u>1.2</u> >	Historical tanks >	0	0	3	1	-
17	1.3	Historical energy features	0	0	0	0	-
17	1.4	Historical petrol stations	0	0	0	0	-
<u>17</u> >	<u>1.5</u> >	Historical garages >	3	0	0	0	-
18	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped >	On site	0-50m	50-250m	250-500m	500-2000m
<u>19</u> >	<u>2.1</u> >	Historical industrial land uses >	2	1	9	12	-
<u>20</u> >	<u>2.2</u> >	Historical tanks >	0	0	5	1	-
21	2.3	Historical energy features	0	0	0	0	-
21	2.4	Historical petrol stations	0	0	0	0	-
<u>21</u> >	<u>2.5</u> >	Historical garages >	4	0	0	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
23	3.1	Active or recent landfill	0	0	0	0	-
23	3.2	Historical landfill (BGS records)	0	0	0	0	_
<u>24</u> >	<u>3.3</u> >	Historical landfill (LA/mapping records) >	0	0	0	1	_
<u>24</u> >	<u>3.4</u> >	Historical landfill (EA/NRW records) >	0	1	0	1	_
<u>25</u> >	<u>3.5</u> >	Historical waste sites >	0	0	0	1	_
<u>25</u> >	<u>3.6</u> >	Licensed waste sites >	0	0	3	0	-
<u>26</u> >	<u>3.7</u> >	Waste exemptions >	0	0	59	47	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
<u>36</u> >	<u>4.1</u> >	Recent industrial land uses >	2	2	5	-	-
<u>37</u> >	<u>4.2</u> >	Current or recent petrol stations >	0	0	1	0	-
37	4.3	Electricity cables	0	0	0	0	-
37	4.4	Gas pipelines	0	0	0	0	-
38	4.5	Sites determined as Contaminated Land	0	0	0	0	-





38	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
38	4.7	Regulated explosive sites	0	0	0	0	-
38	4.8	Hazardous substance storage/usage	0	0	0	0	-
38	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
39	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
<u>39</u> >	• <u>4.11</u> >	Licensed pollutant release (Part A(2)/B) >	2	0	2	0	-
40	4.12	Radioactive Substance Authorisations	0	0	0	0	-
<u>40</u> >	• <u>4.13</u> >	Licensed Discharges to controlled waters >	1	3	8	14	-
44	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
45	4.15	Pollutant release to public sewer	0	0	0	0	-
45	4.16	List 1 Dangerous Substances	0	0	0	0	-
45	4.17	List 2 Dangerous Substances	0	0	0	0	-
<u>45</u> >	> <u>4.18</u> >	Pollution Incidents (EA/NRW) >	0	0	0	1	-
46	4.19	Pollution inventory substances	0	0	0	0	-
46	4.20	Pollution inventory waste transfers	0	0	0	0	-
46	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	e Section	<u>Hydrogeology</u> >	On site	0-50m	50-250m	250-500m	500-2000m
Page <u>47</u> >		<u>Hydrogeology</u> > <u>Superficial aquifer</u> >		0-50m within 500m		250-500m	500-2000m
	> <u>5.1</u> >		Identified (		)	250-500m	500-2000m
<u>47</u> >	> <u>5.1</u> > > <u>5.2</u> >	Superficial aquifer >	Identified ( Identified (	within 500m	)	250-500m	500-2000m
<u>47</u> > <u>49</u> >	> <u>5.1</u> > > <u>5.2</u> >	Superficial aquifer > Bedrock aquifer >	Identified ( Identified (	within 500m within 500m within 50m)	)	250-500m	500-2000m
<u>47</u> > <u>49</u> > <u>51</u> >	> <u>5.1</u> > > <u>5.2</u> > > <u>5.3</u> >	Superficial aquifer > Bedrock aquifer > Groundwater vulnerability >	Identified ( Identified ( Identified (	within 500m within 500m within 50m) in 0m)	)	250-500m	500-2000m
47 > 49 > 51 > 52	<ul> <li>5.1 &gt;</li> <li>5.2 &gt;</li> <li>5.3 &gt;</li> <li>5.4</li> <li>5.5</li> </ul>	Superficial aquifer > Bedrock aquifer > Groundwater vulnerability > Groundwater vulnerability- soluble rock risk	Identified ( Identified ( Identified ( None (with	within 500m within 500m within 50m) in 0m)	)	250-500m	500-2000m
47 > 49 > 51 > 52 52	<ul> <li>5.1 &gt;</li> <li>5.2 &gt;</li> <li>5.3 &gt;</li> <li>5.4</li> <li>5.5</li> <li>5.6 &gt;</li> </ul>	Superficial aquifer > Bedrock aquifer > Groundwater vulnerability > Groundwater vulnerability- soluble rock risk Groundwater vulnerability- local information	Identified ( Identified ( Identified ( None (with None (with	within 500m within 500m within 50m) in 0m) in 0m)	)		
47 > 49 > 51 > 52 52 52 52	<ul> <li>5.1 &gt;</li> <li>5.2 &gt;</li> <li>5.3 &gt;</li> <li>5.4</li> <li>5.5</li> <li>5.6 &gt;</li> <li>5.7 &gt;</li> </ul>	Superficial aquifer > Bedrock aquifer > Groundwater vulnerability > Groundwater vulnerability- soluble rock risk Groundwater vulnerability- local information Groundwater abstractions >	Identified ( Identified ( Identified ( None (with None (with O	within 500m within 500m within 50m) in 0m) in 0m) 0	) )	0	8
47 > 49 > 51 > 52 52 53 > 55 >	<ul> <li>5.1 &gt;</li> <li>5.2 &gt;</li> <li>5.3 &gt;</li> <li>5.4</li> <li>5.5</li> <li>5.6 &gt;</li> <li>5.7 &gt;</li> </ul>	Superficial aquifer > Bedrock aquifer > Groundwater vulnerability > Groundwater vulnerability- soluble rock risk Groundwater vulnerability- local information Groundwater abstractions > Surface water abstractions >	Identified ( Identified ( Identified ( None (with None (with 0 0	within 500m within 500m within 50m) in 0m) in 0m) 0 0	) ) 0 1	0 0	8 6
47 > 49 > 51 > 52 53 > 55 > 55 >	<ul> <li>5.1 &gt;</li> <li>5.2 &gt;</li> <li>5.3 &gt;</li> <li>5.4</li> <li>5.5</li> <li>5.6 &gt;</li> <li>5.7 &gt;</li> <li>5.8 &gt;</li> </ul>	Superficial aquifer > Bedrock aquifer > Groundwater vulnerability > Groundwater vulnerability- soluble rock risk Groundwater vulnerability- local information Groundwater abstractions > Surface water abstractions > Potable abstractions >	Identified ( Identified ( Identified ( None (with None (with 0 0 0	within 500m within 500m within 50m) in 0m) in 0m) 0 0 0	) ) 0 1 0	0 0 0	8 6
47 > 49 > 51 > 52 53 > 55 > 57 > 59	<ul> <li>5.1 &gt;</li> <li>5.2 &gt;</li> <li>5.3 &gt;</li> <li>5.4</li> <li>5.5</li> <li>5.6 &gt;</li> <li>5.7 &gt;</li> <li>5.8 &gt;</li> <li>5.9</li> <li>5.10</li> </ul>	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	Identified ( Identified ( Identified ( None (with None (with 0 0 0 0 0	within 500m within 500m within 50m) in 0m) in 0m) 0 0 0 0	) ) 0 1 0 0	0 0 0 0	8 6
47 > 49 > 51 > 52 - 52 - 53 > 55 > 57 > 59 - 59 -	5.1 > 5.2 > 5.3 > 5.4 5.5 5.6 > 5.6 > 5.7 > 5.8 > 5.9 5.10	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         Source Protection Zones (confined aquifer)	Identified ( Identified ( Identified ( None (with None (with 0 0 0 0 0 0	within 500m within 500m within 50m) in 0m) in 0m) 0 0 0 0 0 0	) ) 0 1 0 0 0 0	0 0 0 0 0	8 6 6 -



<u>61</u> >	<u>6.2</u> >	Surface water features >	0	1	3	-	-
<u>61</u> >	<u>6.3</u> >	WFD Surface water body catchments >	1	-	-	-	-
<u>62</u> >	<u>6.4</u> >	WFD Surface water bodies >	0	1	0	-	-
<u>62</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>63</u> >	<u>7.1</u> >	Risk of flooding from rivers and the sea >	High (withi	n 50m)			
<u>64</u> >	<u>7.2</u> >	Historical Flood Events >	1	0	0	-	-
64	7.3	Flood Defences	0	0	0	-	-
64	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
65	7.5	Flood Storage Areas	0	0	0	-	-
<u>66</u> >	<u>7.6</u> >	Flood Zone 2 >	Identified (	within 50m)			
<u>67</u> >	<u>7.7</u> >	Flood Zone 3 >	Identified (	within 50m)			
Page	Section	Surface water flooding >					
<u>68</u> >	<u>8.1</u> >	Surface water flooding >	1 in 30 yea	r, Greater th	an 1.0m (wit	hin 50m)	
Page	Section	Groundwater flooding >					
i aye	0000000	<u>Croundwater nooding</u> >					
<u>70</u> >	<u>9.1</u> >	Groundwater flooding >	High (withi	n 50m)			
		-	High (withi On site	n 50m) <sub>0-50m</sub>	50-250m	250-500m	500-2000m
<u>70</u> >	<u>9.1</u> >	Groundwater flooding >			50-250m O	250-500m 2	500-2000m 1
<u>70</u> > Page	<u>9.1</u> > Section	<u>Groundwater flooding</u> > <u>Environmental designations</u> >	On site	0-50m			
<u>70</u> > Page <u>71</u> >	<u>9.1</u> > Section <u>10.1</u> >	Groundwater flooding > Environmental designations > Sites of Special Scientific Interest (SSSI) >	On site	0-50m 0	0	2	1
<u>70</u> >       Page <u>71</u> >       72	9.1 >         Section         10.1 >         10.2	Groundwater flooding >         Environmental designations >         Sites of Special Scientific Interest (SSSI) >         Conserved wetland sites (Ramsar sites)	On site O O	0-50m 0 0	0	2 0	1 0
70       Page       71       72       72	9.1 >         Section         10.1 >         10.2         10.3	Groundwater flooding >         Environmental designations >         Sites of Special Scientific Interest (SSSI) >         Conserved wetland sites (Ramsar sites)         Special Areas of Conservation (SAC)	On site 0 0 0	0-50m 0 0	0 0 0	2 0 0	1 0 0
70     >       Page       71     >       72     72       72     >	9.1 >         Section         10.1 >         10.2         10.3         10.4 >	Groundwater flooding >         Environmental designations >         Sites of Special Scientific Interest (SSSI) >         Conserved wetland sites (Ramsar sites)         Special Areas of Conservation (SAC)         Special Protection Areas (SPA) >	On site 0 0 0 0 0 0 0	0-50m 0 0 0	0 0 0 0	2 0 0 2	1 0 0 1
70       >         Page          71       >         72          72          72          72          73	<pre>9.1 &gt; Section 10.1 &gt; 10.2 10.3 10.4 &gt; 10.5</pre>	Groundwater flooding >         Environmental designations >         Sites of Special Scientific Interest (SSSI) >         Conserved wetland sites (Ramsar sites)         Special Areas of Conservation (SAC)         Special Protection Areas (SPA) >         National Nature Reserves (NNR)	On site 0 0 0 0 0 0 0	0-50m 0 0 0 0	0 0 0 0	2 0 0 2 0	1 0 0 1 0
70       >         Page         71       >         72       >         72       >         72       >         73       >	<pre>9.1 &gt; Section 10.1 &gt; 10.2 10.3 10.4 &gt; 10.5 10.6 &gt;</pre>	Groundwater flooding >         Environmental designations >         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) >	On site O O O O O O O O O O O O O O O O O O O	0-50m 0 0 0 0 0	0 0 0 0 0	2 0 0 2 0 1	1 0 1 0 0
70       >         Page         71       >         72       72         72       >         73       >         73       >         74       >	<pre>9.1 &gt; Section 10.1 &gt; 10.2 10.3 10.4 &gt; 10.5 10.6 &gt; 10.7 &gt;</pre>	Groundwater flooding >         Environmental designations >         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 >	On site O O O O O O O O O O O O O O O O O O O	0-50m 0 0 0 0 0 0		2 0 0 2 0 1 0	1 0 1 0 0 17
70       >         Page         71       >         72       72         72       >         73       >         73       >         74       >         75	9.1 > Section 10.1 > 10.2 10.3 10.4 > 10.5 10.6 > 10.7 > 10.8	Groundwater flooding >Environmental designations >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	On site O O O O O O O O O O O O O O O O O O O	0-50m 0 0 0 0 0 0 0 0 0 0		2 0 2 0 1 0 0	1 0 1 0 0 17 0
70       >         Page          71       >         72          72          72       >         73       >         73       >         74       >         75	9.1 >         Section         10.1 >         10.2         10.3         10.4 >         10.5         10.6 >         10.7 >         10.8         10.9	Groundwater flooding >Environmental designations >Sites of Special Scientific Interest (SSSI) >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 ReservesForest Parks	On site O O O O O O O O O O O O O O O O O O O	0-50m 0 0 0 0 0 0 0 0 0 0 0 0 0		2 0 2 0 1 0 0 0 0	1 0 1 0 0 17 0 0
70       >         Page         71       >         72       >         72       >         73       >         73       >         74       >         75       75         75       75	9.1 >         Section         10.1 >         10.2         10.3         10.4 >         10.5         10.6 >         10.7 >         10.8         10.9         10.10	Groundwater flooding >Environmental designations >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 ReservesForest ParksMarine Conservation Zones	On site O O O O O O O O O O O O O O O O O O O	0-50m 0 0 0 0 0 0 0 0 0 0 0 0 0		2 0 2 0 1 0 0 0 0 0	1 0 1 0 0 17 0 0 0 0

4





Ref: EMS-915356\_1167024 Your ref: EMS\_915356\_1134517 Grid ref: 480383 138513

76	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
76	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
76	10.15	Nitrate Sensitive Areas	0	0	0	0	0
76	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
<u>77</u> >	<u>10.17</u> >	SSSI Impact Risk Zones >	1	-	-	-	-
<u>78</u> >	<u>10.18</u> >	<u>SSSI Units</u> >	0	0	0	3	1
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
81	11.1	World Heritage Sites	0	0	0	-	-
81	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
81	11.3	National Parks	0	0	0	-	-
81	11.4	Listed Buildings	0	0	0	-	-
82	11.5	Conservation Areas	0	0	0	-	-
82	11.6	Scheduled Ancient Monuments	0	0	0	-	-
82	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
<u>83</u> >	<u>12.1</u> >	Agricultural Land Classification >	Grade 3 (w	ithin 250m)			
			Ordue 5 (W	,			
<u>84</u> >	<u>12.2</u> >	Open Access Land >	0	1	1	-	-
		-			<b>1</b> 0	-	-
<u>84</u> >	<u>12.2</u> >	Open Access Land >	0	1		-	-
<u>84</u> > 84	<u>12.2</u> > 12.3	Open Access Land > Tree Felling Licences	0	1	0	-	- - -
<u>84</u> > 84 <u>85</u> >	<u>12.2</u> > 12.3 <u>12.4</u> >	Open Access Land       >         Tree Felling Licences       >         Environmental Stewardship Schemes       >	0 0 0	1 0 0	0 1	- - - 250-500m	- - - 500-2000m
<u>84</u> > 84 <u>85</u> > 85	<u>12.2</u> > 12.3 <u>12.4</u> > 12.5	Open Access Land       >         Tree Felling Licences	0 0 0	1 0 0	0 1 0	- - - 250-500m	- - - 500-2000m
84 > 84 85 > 85 Page	12.2         12.3         12.4         12.5         Section	Open Access Land       >         Tree Felling Licences	0 0 0 0 On site	1 0 0 0 0-50m	0 1 0 50-250m	- - - 250-500m -	- - 500-2000m -
84 > 84 85 > 85 Page 86 >	12.2         12.3         12.4         12.5         Section         13.1	Open Access Land       >         Tree Felling Licences          Environmental Stewardship Schemes       >         Countryside Stewardship Schemes          Habitat designations       >         Priority Habitat Inventory       >	0 0 0 0 0 0 0 0 0	1 0 0 0-50m 2	0 1 0 50-250m 9	- - - 250-500m - -	- - 500-2000m - -
84 > 84 85 > 85 Page 86 > 87 >	12.2       >         12.3          12.4       >         12.5          Section          13.1       >         13.2       >	Open Access Land       >         Tree Felling Licences          Environmental Stewardship Schemes       >         Countryside Stewardship Schemes          Habitat designations       >         Priority Habitat Inventory       >         Habitat Networks       >	0 0 0 0 0 0 0 0 1	1 0 0 0 0-50m 2 0	0 1 0 50-250m 9 2	- - - 250-500m - -	- - 500-2000m - - -
84 > 84 85 > 85 Page 86 > 87 > 87 >	12.2         12.3         12.4         12.5         Section         13.1         13.2         13.3	Open Access Land >         Tree Felling Licences         Environmental Stewardship Schemes >         Countryside Stewardship Schemes         Habitat designations >         Priority Habitat Inventory >         Habitat Networks >         Open Mosaic Habitat >	0 0 0 0 0 0 0 0 1 0	1 0 0 0 0-50m 2 0 1	0 1 0 50-250m 9 2 0	- - - 250-500m - - - - - - 250-500m	- - - 500-2000m - - - - - - - - -
<ul> <li>84</li> <li>84</li> <li>85</li> <li>85</li> <li>Page</li> <li>86</li> <li>87</li> <li>87</li> <li>88</li> </ul>	<pre>12.2 &gt; 12.3 12.4 &gt; 12.5 Section 13.1 &gt; 13.2 &gt; 13.3 &gt; 13.4</pre>	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       >	0 0 0 0 0 0 0 0 1 0 1 0 0 0 0	1 0 0 0 0-50m 2 0 1 0	0 1 0 50-250m 9 2 0 0 0 0 50-250m	-	
84         85         85         Page         86         87         88	<pre>12.2 &gt; 12.3 12.4 &gt; 12.5 Section 13.1 &gt; 13.2 &gt; 13.3 &gt; 13.4</pre>	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 >	0 0 0 0 0 0 0 0 1 0 1 0 0 0 0	1 0 0 0 0-50m 2 0 1 0 1 0 0 50m	0 1 0 50-250m 9 2 0 0 0 0 50-250m	-	
84         85         85         85         Page         86         87         87         88         Page         88         Page         88         Page	<pre>12.2 &gt; 12.3 12.4 &gt; 12.5 2.5 2.5 2.5 2.5 2.5 13.2 &gt; 13.4 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5</pre>	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 >	0 0 0 0 0 0 0 1 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0	1 0 0 0-50m 2 0 1 0 0-50m within 500m	0 1 0 50-250m 9 2 0 0 0 50-250m	- - - 250-500m	



91	14.4	Landslip (10k)	0	0	0	0	-
92	14.5	Bedrock geology (10k)	0	0	0	0	-
92	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>93</u> >	<u>15.1</u> >	50k Availability >	Identified (	within 500m	)		
<u>94</u> >	<u>15.2</u> >	Artificial and made ground (50k) >	1	0	2	2	-
<u>95</u> >	<u>15.3</u> >	Artificial ground permeability (50k) >	1	0	-	-	-
<u>96</u> >	<u>15.4</u> >	Superficial geology (50k) >	1	0	1	2	-
<u>97</u> >	<u>15.5</u> >	Superficial permeability (50k) >	Identified (	within 50m)			
97	15.6	Landslip (50k)	0	0	0	0	-
97	15.7	Landslip permeability (50k)	None (with	in 50m)			
<u>98</u> >	<u>15.8</u> >	Bedrock geology (50k) >	1	0	1	0	-
<u>99</u> >	<u>15.9</u> >	Bedrock permeability (50k) >	Identified (	within 50m)			
99	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>100</u> >	<u>16.1</u> >	BGS Boreholes >	0	1	23	-	-
Page	Section	Natural ground subsidence >					
<u>102</u> >	<u>17.1</u> >	Shrink swell clays >	Very low (w	vithin 50m)			
<u>103</u> >	<u>17.2</u> >	Running sands >	Low (within	i 50m)			
<u>105</u> >	<u>17.3</u> >	<u>Compressible deposits</u> >	Moderate (	within 50m)			
<u>107</u> >	<u>17.4</u> >	<u>Collapsible deposits</u> >	Very low (w	vithin 50m)			
<u>108</u> >	<u>17.5</u> >	Landslides >	Very low (w	vithin 50m)			
<u>109</u> >	<u>17.6</u> >	Ground dissolution of soluble rocks >	Negligible (	(within 50m)			
Page	Section	Mining and ground workings >	On site	0-50m	50-250m	250-500m	500-2000m
<u>111</u> >	<u>18.1</u> >	<u>BritPits</u> >	0	0	2	3	-
<u>112</u> >	<u>18.2</u> >	Surface ground workings >	0	1	8	-	-
113	18.3	Underground workings	0	0	0	0	0
113	18.4	Underground mining extents	0	0	0	0	-





<u>114</u> >	<u>18.6</u> >	Non-coal mining >	1	0	0	1	0
114	18.7	JPB mining areas	None (with	in Om)			
115	18.8	The Coal Authority non-coal mining	0	0	0	0	-
115	18.9	Researched mining	0	0	0	0	-
115	18.10	Mining record office plans	0	0	0	0	-
115	18.11	BGS mine plans	0	0	0	0	-
116	18.12	Coal mining	None (with	in Om)			
116	18.13	Brine areas	None (with	in Om)			
116	18.14	Gypsum areas	None (with	in Om)			
116	18.15	Tin mining	None (with	in Om)			
116	18.16	Clay mining	None (with	in Om)			
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
117	19.1	Natural cavities	0	0	0	0	-
117	19.2	Mining cavities	0	0	0	0	0
117	19.3	Reported recent incidents	0	0	0	0	_
117	19.4	Historical incidents	0	0	0	0	_
118	19.5	National karst database	0	0	0	0	-
Page	Section	<u>Radon</u> >					
<u>119</u> >	<u>20.1</u> >	Radon >	Less than 1	% (within On	n)		
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
<u>121</u> >	<u>21.1</u> >	BGS Estimated Background Soil Chemistry >	3	0	-	-	_
121	21.2	BGS Estimated Urban Soil Chemistry	0	0	_	-	_
121	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
122	22.1	Underground railways (London)	0	0	0	-	-
122	22.2	Underground railways (Non-London)	0	0	0	-	-
122	22.3	Railway tunnels	0	0	0	-	-
122	22.4	Historical railway and tunnel features	0	0	0	-	-





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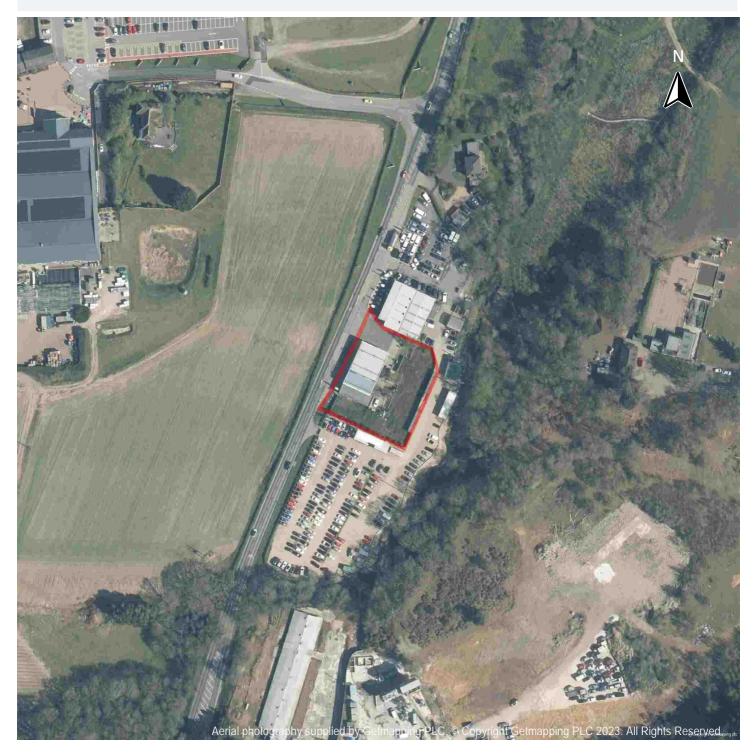
123	22.6	Historical railways	0	0	0	-	-
123	22.7	Railways	0	0	0	-	-
123	22.8	Crossrail 1	0	0	0	0	-
123	22.9	Crossrail 2	0	0	0	0	-
123	22.10	HS2	0	0	0	0	-





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# Recent aerial photograph



Capture Date: 24/04/2021 Site Area: 0.24ha



Contact us with any questions at: <u>info@groundsure.com</u> ∧ 01273 257 755



Ref: EMS-915356\_1167024 Your ref: EMS\_915356\_1134517 Grid ref: 480383 138513

# Recent site history - 2018 aerial photograph



Capture Date: 08/05/2018 Site Area: 0.24ha



Contact us with any questions at: <u>info@groundsure.com</u> ∧ 01273 257 755





Ref: EMS-915356\_1167024 Your ref: EMS\_915356\_1134517 Grid ref: 480383 138513

# Recent site history - 2005 aerial photograph



Capture Date: 19/06/2005 Site Area: 0.24ha



Contact us with any questions at: <u>info@groundsure.com</u> ↑ 01273 257 755





Ref: EMS-915356\_1167024 Your ref: EMS\_915356\_1134517 Grid ref: 480383 138513

# Recent site history - 2000 aerial photograph



Capture Date: 12/08/2000 Site Area: 0.24ha



Contact us with any questions at: <u>info@groundsure.com</u> ∧ 01273 257 755





Ref: EMS-915356\_1167024 Your ref: EMS\_915356\_1134517 Grid ref: 480383 138513

# Recent site history - 1999 aerial photograph



Capture Date: 04/09/1999 Site Area: 0.24ha

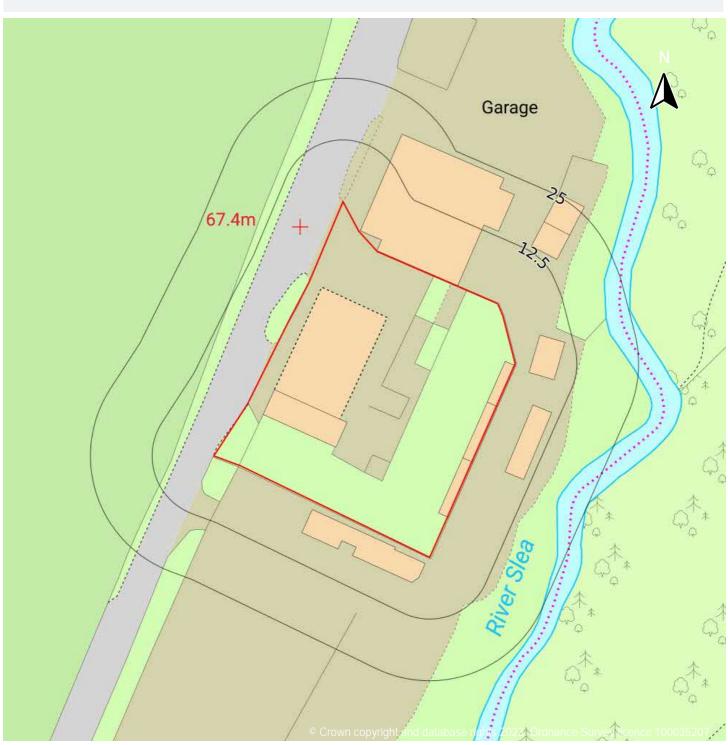


Contact us with any questions at: <u>info@groundsure.com</u> ∧ 01273 257 755





## OS MasterMap site plan



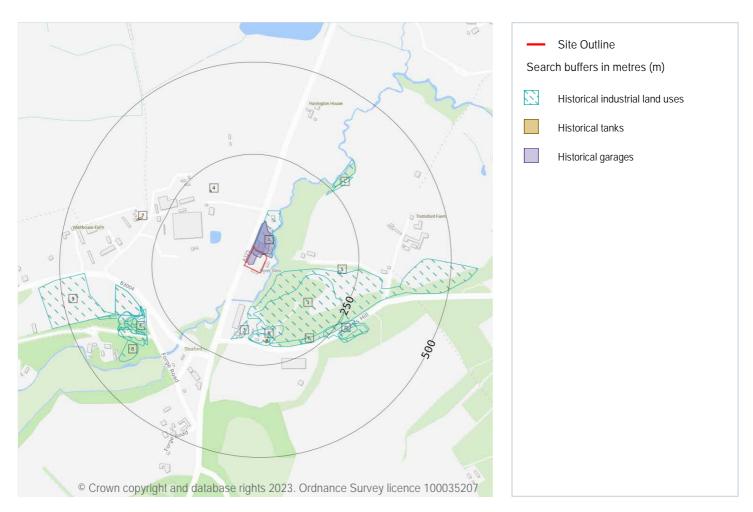
Site Area: 0.24ha







## 1 Past land use



## 1.1 Historical industrial land uses

#### Records within 500m

21

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

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

ID	Location	Land use	Dates present	Group ID
А	On site	Garage	1974 - 1979	1899695







ID	Location	Land use	Dates present	Group ID
1	44m SE	Sand Pit	1979	1922029
2	81m S	Refuse Heap	1974	1901112
3	134m S	Unspecified Pit	1956	1880144
В	148m S	Sand Pit	1956	1954182
В	164m S	Sand Pit	1910	1968387
5	196m E	Lime Kiln	1870	1875062
6	214m SE	Refuse Heap	1956	1909276
С	230m NE	Unspecified Pit	1910	1967198
D	235m SE	Sand Pit	1895 - 1898	1898019
С	256m NE	Unspecified Pit	1956	1956643
D	267m SE	Unspecified Pit	1956	1880146
D	274m SE	Old Sand Pit	1910	1882970
E	292m SW	Sand Pit	1870	1906308
E	300m W	Sand Pit	1910	1935767
E	300m SW	Sand Pit	1895 - 1897	1960798
Е	303m W	Refuse Heap	1979	1890487
E	303m W	Sand Pit	1974	1956216
E	325m SW	Refuse Heap	1956	1893140
8	361m SW	Unspecified Heap	1897	1870063
9	374m W	Refuse Heap	1979	1884499

This data is sourced from Ordnance Survey / Groundsure.

## 1.2 Historical tanks

#### Records within 500m

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

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







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ID	Location	Land use	Dates present	Group ID
В	180m S	Tanks	1973 - 1993	315444
В	182m S	Tanks	1971	316792
4	187m NW	Tank or Trough	1870	311922
7	304m W	Tanks	1870	311210

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 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.

## 1.4 Historical petrol stations

#### Records within 500m

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

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'.

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





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ID	Location	Land use	Dates present	Group ID
Α	On site	Garage	1971	61684
Α	On site	Garage	1990	62846
А	On site	Garage	1973 - 1993	64428

This data is sourced from Ordnance Survey / Groundsure.

## 1.6 Historical military land

#### Records within 500m

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

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

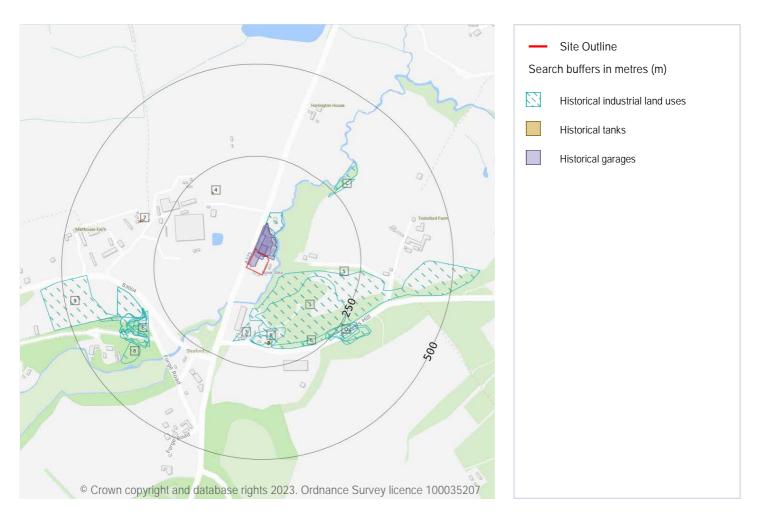






Ref: EMS-915356\_1167024 Your ref: EMS\_915356\_1134517 Grid ref: 480383 138513

## 2 Past land use - un-grouped



## 2.1 Historical industrial land uses

#### Records within 500m

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 19 >

ID	Location	Land Use	Date	Group ID
Α	On site	Garage	1974	1899695
Α	On site	Garage	1979	1899695
1	44m SE	Sand Pit	1979	1922029







Ref: EMS-915356\_1167024 Your ref: EMS\_915356\_1134517 Grid ref: 480383 138513

ID	Location	Land Use	Date	Group ID
2	81m S	Refuse Heap	1974	1901112
3	134m S	Unspecified Pit	1956	1880144
В	148m S	Sand Pit	1956	1954182
В	164m S	Sand Pit	1910	1968387
5	196m E	Lime Kiln	1870	1875062
6	214m SE	Refuse Heap	1956	1909276
С	230m NE	Unspecified Pit	1910	1967198
D	235m SE	Sand Pit	1898	1898019
D	243m SE	Sand Pit	1895	1898019
С	256m NE	Unspecified Pit	1956	1956643
D	267m SE	Unspecified Pit	1956	1880146
D	274m SE	Old Sand Pit	1910	1882970
E	292m SW	Sand Pit	1870	1906308
E	300m W	Sand Pit	1910	1935767
E	300m SW	Sand Pit	1897	1960798
E	301m SW	Sand Pit	1895	1960798
E	303m W	Sand Pit	1974	1956216
E	303m W	Refuse Heap	1979	1890487
E	325m SW	Refuse Heap	1956	1893140
8	361m SW	Unspecified Heap	1897	1870063
9	374m W	Refuse Heap	1979	1884499

This data is sourced from Ordnance Survey / Groundsure.

## 2.2 Historical tanks

#### Records within 500m

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

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







ID	Location	Land Use	Date	Group ID
В	180m S	Tanks	1973	315444
В	180m S	Tanks	1990	315444
В	182m S	Tanks	1993	315444
В	182m S	Tanks	1971	316792
4	187m NW	Tank or Trough	1870	311922
7	304m W	Tanks	1870	311210

This data is sourced from Ordnance Survey / Groundsure.

## 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'.

This data is sourced from Ordnance Survey / Groundsure.

## 2.4 Historical petrol stations

#### Records within 500m

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

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

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

ID	Location	Land Use	Date	Group ID
А	On site	Garage	1973	64428



0

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Ref: EMS-915356\_1167024 Your ref: EMS\_915356\_1134517 Grid ref: 480383 138513

ID	Location	Land Use	Date	Group ID
А	On site	Garage	1990	62846
А	On site	Garage	1993	64428
А	On site	Garage	1971	61684

This data is sourced from Ordnance Survey / Groundsure.







Ref: EMS-915356\_1167024 Your ref: EMS\_915356\_1134517 Grid ref: 480383 138513

## 3 Waste and landfill



## 3.1 Active or recent landfill

#### Records within 500m

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

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.





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## 3.3 Historical landfill (LA/mapping records)

Re	cords within	n 500m		1				
Landfill sites identified from Local Authority records and high detail historical mapping.								
Featu	ures are dis	played on the Waste and landfill	map on <u>page 23</u> >					
ID	Location	Site address	Source	Data type				

4	381m W	Refuse Tip	1976 mapping	Polygon

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

## 3.4 Historical landfill (EA/NRW records)

#### Records within 500m

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.

ID	Location	Details		
А	28m SE	Site Address: Trottsford Farm, Bordon, Gu35, Picketts Hill, Bordon, Headley, Hants Licence Holder Address: Dundas Lane, Portsmouth, Copnur, Hants	Waste Licence: Yes Site Reference: - Waste Type: - Environmental Permitting Regulations (Waste) Reference: TE1/L/LE1001 Licence Issue: 24/08/1992 Licence Surrender: -	Operator: Leigh Environmental ( Southern ) Ltd Licence Holder: Leigh Environmental ( Southern ) Ltd First Recorded - Last Recorded: -
2	290m SW	Site Address: Coldharbour Sand Pit, Sleaford, Kingsley Licence Holder Address: -	Waste Licence: - Site Reference: 6/4, FEH3 Waste Type: Inert, Commercial, Household Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded - Last Recorded: -

Features are displayed on the Waste and landfill map on page 23 >

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







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## 3.5 Historical waste sites

#### Records within 500m

Waste site records derived from Local Authority planning records and high detail historical mapping. Features are displayed on the Waste and landfill map on page 23 >

ID	Location	Address	Further Details	Date
3	299m W	Site Address: N/A	Type of Site: Waste Amenity Point Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1981

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

## 3.6 Licensed waste sites

#### Records within 500m

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

Features are displayed on the Waste and landfill map on page 23 >

ID	Location	Details		
A	132m SE	Site Name: Trottsford Farm, Bordon, Gu35 Site Address: Leigh Environmental (Southern) Ltd, Trottsford Farm, Picketts Hill, Headley, Bordon, Hants, GU35 8TF Correspondence Address: Leigh Environmental (Southern) Ltd, Dundas Spur, Dundas Lane, Copnur, Portsmouth, Hants, PO3 5RN	Type of Site: Landfill taking other wastes Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: LEI001 EPR reference: - Operator: Leigh Environmental (Southern) Ltd Waste Management licence No: 83024 Annual Tonnage: 0	Issue Date: 24/08/1992 Effective Date: - Modified: 03/07/1998 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Closure





ID	Location	Details		
A	132m SE	Site Name: Trottsford Farm, Bordon, Gu35 Site Address: Leigh Environmental (Southern) Ltd, Trottsford Farm, Picketts Hill, Headley, Bordon, Hampshire, GU35 8TF Correspondence Address: -	Type of Site: Landfill taking other wastes Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: LEI001 EPR reference: EA/EPR/KP3993EM/S008 Operator: Leigh Environmental ( Southern ) Ltd Waste Management licence No: 83024 Annual Tonnage: 0	Issue Date: 24/08/1992 Effective Date: - Modified: 03/07/1998 Surrendered Date: Jan 31 2008 12:00AM Expiry Date: - Cancelled Date: - Status: Surrendered
A	132m SE	Site Name: Trottsford Farm, Bordon, Gu35 Site Address: Trottsford Farm, Picketts Hill, Headley, Bordon, Hampshire, GU35 8TF Correspondence Address: -	Type of Site: Landfill taking other wastes Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 633124 EPR reference: EA/EPR/KP3993EM Operator: Leigh Environmental (Southern) Limited Waste Management licence No: 83024 Annual Tonnage: 0	Issue Date: 24/08/1992 Effective Date: 24/08/1992 Modified: - Surrendered Date: 24/08/1992 Expiry Date: - Cancelled Date: - Status: Surrendered

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

## 3.7 Waste exemptions

Reco	rds \	vithin	500	m						

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 23 >

ID	Location	Site	Reference	Category	Sub-Category	Description
1	108m W	Country Markets Malthouse and Osbourne Farms Hampshire GU359LW	EPR/BE 5788R W/A001	Using waste exemption	Non- Agricultural Waste Only	Use of waste in construction
В	120m E	Trottsford Farm Cottage Picketts Hill Sleaford GU35 8TF	EPR/VH0071E D/A001	Using waste exemption	Non- Agricultural Waste Only	Use of waste in construction







ID	Location	Site	Reference	Category	Sub-Category	Description
В	121m E	Sandhill Barn, Picketts Hill, Sleaford, Bordon, GU35 8TF	WEX139231	Using waste exemption	On a farm	Use of waste in construction
В	121m E	Sandhill Barn, Picketts Hill, Sleaford, Bordon, GU35 8TF	WEX139231	Treating waste exemption	On a farm	Preparatory treatments (baling, sorting, shredding etc)
В	121m E	Sandhill Barn, Picketts Hill, Sleaford, Bordon, GU35 8TF	WEX139231	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
В	121m E	Sandhill Barn, Picketts Hill, Sleaford, Bordon, GU35 8TF	WEX139231	Using waste exemption	On a farm	Use of baled end-of-life tyres in construction
В	121m E	Sandhill Barn, Picketts Hill, Sleaford, Bordon, GU35 8TF	WEX139231	Treating waste exemption	On a farm	Aerobic composting and associated prior treatment
В	121m E	Sandhill Barn, Picketts Hill, Sleaford, Bordon, GU35 8TF	WEX139231	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
В	121m E	Sandhill Barn, Picketts Hill, Sleaford, Bordon, GU35 8TF	WEX139231	Using waste exemption	On a farm	Spreading waste on non- agricultural land to confer benefit
В	121m E	Sandhill Barn, Picketts Hill, Sleaford, Bordon, GU35 8TF	WEX139231	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
В	121m E	Sandhill Barn, Picketts Hill, Sleaford, Bordon, GU35 8TF	WEX139231	Using waste exemption	On a farm	Incorporation of ash into soil
В	121m E	Sandhill Barn, Picketts Hill, Sleaford, Bordon, GU35 8TF	WEX139231	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
В	121m E	Sandhill Barn, Picketts Hill, Sleaford, Bordon, GU35 8TF	WEX139231	Using waste exemption	On a farm	Use of waste derived biodiesel as fuel
В	121m E	Sandhill Barn, Picketts Hill, Sleaford, Bordon, GU35 8TF	WEX139231	Using waste exemption	On a farm	Use of waste for a specified purpose
В	121m E	Sandhill Barn, Picketts Hill, Sleaford, Bordon, GU35 8TF	WEX139231	Treating waste exemption	On a farm	Physical treatment of waste edible oil and fat to produce biodiesel







ID	Location	Site	Reference	Category	Sub-Category	Description
В	121m E	Sandhill Barn, Picketts Hill, Sleaford, Bordon, GU35 8TF	WEX139231	Disposing of waste exemption	On a farm	Disposal by incineration
В	121m E	Sandhill Barn, Picketts Hill, Sleaford, Bordon, GU35 8TF	WEX139231	Disposing of waste exemption	On a farm	Burning waste in the open
В	121m E	Sandhill Barn, Picketts Hill, Sleaford, Bordon, GU35 8TF	WEX139231	Treating waste exemption	On a farm	Screening and blending of waste
В	121m E	Sandhill Barn, Picketts Hill, Sleaford, Bordon, GU35 8TF	WEX139231	Treating waste exemption	On a farm	Treatment of waste in a biobed or biofilter
В	121m E	Sandhill Barn, Picketts Hill, Sleaford, Bordon, GU35 8TF	WEX139231	Treating waste exemption	On a farm	Anaerobic digestion at premises used for agriculture and burning of resultant biogas
В	121m E	Sandhill Barn, Picketts Hill, Sleaford, Bordon, GU35 8TF	WEX139231	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
В	121m E	Sandhill Barn, Picketts Hill, Sleaford, Bordon, GU35 8TF	WEX139231	Using waste exemption	On a farm	Use of mulch
В	121m E	Sandhill Barn, Picketts Hill, Sleaford, Bordon, GU35 8TF	WEX139231	Treating waste exemption	On a farm	Treatment of sheep dip for disposal
В	121m E	Sandhill Barn, Picketts Hill, Sleaford, Bordon, GU35 8TF	WEX139231	Using waste exemption	On a farm	Use of waste to manufacture finished goods
С	150m NW	Osborne Farms Main Road Bordon Hampshire GU35 9LW	EPR/ME 5388V P/A001	Using waste exemption	Agricultural Waste Only	Pig and poultry ash
С	150m NW	Osborne Farms Main Road Bordon Hampshire GU35 9LW	EPR/ME 5388V P/A001	Disposing of waste exemption	Both agricultural and non- agricultural waste	Deposit of waste from dredging of inland waters
С	150m NW	Osborne Farms Main Road Bordon Hampshire GU35 9LW	EPR/ME 5388V P/A001	Storing waste exemption	Both agricultural and non- agricultural waste	Storage of waste in secure containers







ID	Location	Site	Reference	Category	Sub-Category	Description
С	150m NW	Osborne Farms Main Road Bordon Hampshire GU35 9LW	EPR/ME5388V P/A001	Storing waste exemption	Both agricultural and non- agricultural waste	Storage of waste in a secure place
С	150m NW	Osborne Farms Main Road Bordon Hampshire GU35 9LW	EPR/ME5388V P/A001	Treating waste exemption	Both agricultural and non- agricultural waste	Preparatory treatments (baling, sorting, shredding etc)
С	150m NW	Osborne Farms Main Road Bordon Hampshire GU35 9LW	EPR/ME5388V P/A001	Using waste exemption	Both agricultural and non- agricultural waste	Use of waste in construction
С	150m NW	Osborne Farms Main Road Bordon Hampshire GU35 9LW	EPR/ME5388V P/A001	Using waste exemption	Both agricultural and non- agricultural waste	Spreading of plant matter to confer benefit
С	150m NW	Osborne Farms Main Road Bordon Hampshire GU35 9LW	EPR/ME5388V P/A001	Using waste exemption	Both agricultural and non- agricultural waste	Incorporation of ash into soil
С	150m NW	Osborne Farms Main Road Bordon Hampshire GU35 9LW	EPR/ME5388V P/A001	Using waste exemption	Both agricultural and non- agricultural waste	Burning of waste as a fuel in a small appliance
С	150m NW	Osborne Farms Main Road Bordon Hampshire GU35 9LW	EPR/ME5388V P/A001	Using waste exemption	Both agricultural and non- agricultural waste	Use of waste derived biodiesel as fuel
С	150m NW	Osborne Farms Main Road Bordon Hampshire GU35 9LW	EPR/ME5388V P/A001	Treating waste exemption	Non- Agricultural Waste Only	Treatment of waste toner cartridges by sorting, dismantling, cleaning or refilling
С	150m NW	Osborne Farms Main Road Bordon Hampshire GU35 9LW	EPR/ME5388V P/A001	Disposing of waste exemption	Both agricultural and non- agricultural waste	Disposal by incineration







ID	Location	Site	Reference	Category	Sub-Category	Description
С	150m NW	Osborne Farms Main Road Bordon Hampshire GU35 9LW	EPR/ME5388V P/A001	Disposing of waste exemption	Both agricultural and non- agricultural waste	Burning waste in the open
С	150m NW	Osborne Farms Main Road Bordon Hampshire GU35 9LW	EPR/ME5388V P/A001	Treating waste exemption	Both agricultural and non- agricultural waste	Treatment of waste in a biobed or biofilter
С	150m NW	Osborne Farms Main Road Bordon Hampshire GU35 9LW	EPR/ME5388V P/A001	Treating waste exemption	Both agricultural and non- agricultural waste	Recovery of scrap metal
С	150m NW	Osborne Farms Main Road Bordon Hampshire GU35 9LW	EPR/ME5388V P/A001	Using waste exemption	Both agricultural and non- agricultural waste	Spreading waste on agricultural land to confer benefit
С	150m NW	Osborne Farms Main Road Bordon Hampshire GU35 9LW	EPR/ME5388V P/A001	Using waste exemption	Both agricultural and non- agricultural waste	Use of mulch
D	212m W	OSBORNE FARMS, FORGE ROAD, KINGSLEY, BORDON, GU35 9LW	WEX072953	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
D	212m W	OSBORNE FARMS, FORGE ROAD, KINGSLEY, BORDON, GU35 9LW	WEX072953	Storing waste exemption	On a farm	Storage of waste in secure containers
D	212m W	OSBORNE FARMS, FORGE ROAD, KINGSLEY, BORDON, GU35 9LW	WEX072953	Storing waste exemption	On a farm	Storage of waste in a secure place
D	212m W	OSBORNE FARMS, FORGE ROAD, KINGSLEY, BORDON, GU35 9LW	WEX072953	Treating waste exemption	On a farm	Treatment of waste at a water treatment works
D	212m W	OSBORNE FARMS, FORGE ROAD, KINGSLEY, BORDON, GU35 9LW	WEX072953	Treating waste exemption	On a farm	Recovery of waste at a waste water treatment works
D	212m W	OSBORNE FARMS, FORGE ROAD, KINGSLEY, BORDON, GU35 9LW	WEX072953	Treating waste exemption	On a farm	Preparatory treatments (baling, sorting, shredding etc)







ID	Location	Site	Reference	Category	Sub-Category	Description
D	212m W	OSBORNE FARMS, FORGE ROAD, KINGSLEY, BORDON, GU35 9LW	WEX072953	Using waste exemption	On a farm	Use of waste in construction
D	212m W	OSBORNE FARMS, FORGE ROAD, KINGSLEY, BORDON, GU35 9LW	WEX072953	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
D	212m W	OSBORNE FARMS, FORGE ROAD, KINGSLEY, BORDON, GU35 9LW	WEX072953	Using waste exemption	On a farm	Incorporation of ash into soil
D	212m W	OSBORNE FARMS, FORGE ROAD, KINGSLEY, BORDON, GU35 9LW	WEX072953	Using waste exemption	On a farm	Pig and poultry ash
D	212m W	OSBORNE FARMS, FORGE ROAD, KINGSLEY, BORDON, GU35 9LW	WEX072953	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
D	212m W	OSBORNE FARMS, FORGE ROAD, KINGSLEY, BORDON, GU35 9LW	WEX072953	Using waste exemption	On a farm	Use of waste derived biodiesel as fuel
D	212m W	OSBORNE FARMS, FORGE ROAD, KINGSLEY, BORDON, GU35 9LW	WEX072953	Disposing of waste exemption	On a farm	Disposal by incineration
D	212m W	OSBORNE FARMS, FORGE ROAD, KINGSLEY, BORDON, GU35 9LW	WEX072953	Treating waste exemption	On a farm	Sorting mixed waste
D	212m W	OSBORNE FARMS, FORGE ROAD, KINGSLEY, BORDON, GU35 9LW	WEX072953	Treating waste exemption	On a farm	Treatment of waste in a biobed or biofilter
D	212m W	OSBORNE FARMS, FORGE ROAD, KINGSLEY, BORDON, GU35 9LW	WEX072953	Treating waste exemption	On a farm	Recovery of scrap metal
D	212m W	OSBORNE FARMS, FORGE ROAD, KINGSLEY, BORDON, GU35 9LW	WEX072953	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
D	212m W	OSBORNE FARMS, FORGE ROAD, KINGSLEY, BORDON, GU35 9LW	WEX072953	Using waste exemption	On a farm	Use of mulch
E	252m NW	-	WEX362465	Using waste exemption	On a farm	Use of waste in construction
E	252m NW	-	WEX362465	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance







ID	Location	Site	Reference	Category	Sub-Category	Description
E	252m NW	-	WEX362465	Using waste exemption	On a farm	Use of waste derived biodiesel as fuel
E	252m NW	-	WEX362465	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
E	252m NW	-	WEX362465	Using waste exemption	On a farm	Incorporation of ash into soil
E	252m NW	-	WEX362465	Using waste exemption	On a farm	Pig and poultry ash
E	252m NW	-	WEX362465	Treating waste exemption	On a farm	Preparatory treatments (baling, sorting, shredding etc)
E	252m NW	-	WEX362465	Treating waste exemption	On a farm	Treatment of waste at a water treatment works
E	252m NW	-	WEX362465	Treating waste exemption	On a farm	Recovery of waste at a waste water treatment works
E	252m NW	-	WEX362465	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
E	252m NW	-	WEX362465	Storing waste exemption	On a farm	Storage of waste in secure containers
E	252m NW	-	WEX362465	Storing waste exemption	On a farm	Storage of waste in a secure place
E	252m NW	-	WEX362465	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
E	252m NW	-	WEX362465	Using waste exemption	On a farm	Use of mulch
E	252m NW	-	WEX362465	Treating waste exemption	On a farm	Recovery of scrap metal
E	252m NW	-	WEX362465	Treating waste exemption	On a farm	Sorting mixed waste
E	252m NW	-	WEX362465	Treating waste exemption	On a farm	Treatment of waste in a biobed or biofilter
E	252m NW	-	WEX362465	Disposing of waste exemption	On a farm	Disposal by incineration







ID	Location	Site	Reference	Category	Sub-Category	Description
F	254m SE	Sandhill Barn Picketts Hill Bordon Hampshire GU35 8TF	EPR/DE5941ZZ /A001	Disposing of waste exemption	Both agricultural and non- agricultural waste	Deposit of waste from dredging of inland waters
F	254m SE	Sandhill Barn Picketts Hill Bordon Hampshire GU35 8TF	EPR/DE5941ZZ /A001	Treating waste exemption	Both agricultural and non- agricultural waste	Aerobic composting and associated prior treatment
F	254m SE	Sandhill Barn Picketts Hill Bordon Hampshire GU35 8TF	EPR/DE5941ZZ /A001	Treating waste exemption	Both agricultural and non- agricultural waste	Preparatory treatments (baling, sorting, shredding etc)
F	254m SE	Sandhill Barn Picketts Hill Bordon Hampshire GU35 8TF	EPR/DE5941ZZ /A001	Treating waste exemption	Both agricultural and non- agricultural waste	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
F	254m SE	Sandhill Barn Picketts Hill Bordon Hampshire GU35 8TF	EPR/DE5941ZZ /A001	Using waste exemption	Both agricultural and non- agricultural waste	Use of waste in construction
F	254m SE	Sandhill Barn Picketts Hill Bordon Hampshire GU35 8TF	EPR/DE5941ZZ /A001	Using waste exemption	Both agricultural and non- agricultural waste	Spreading waste on non- agricultural land to confer benefit
F	254m SE	Sandhill Barn Picketts Hill Bordon Hampshire GU35 8TF	EPR/DE5941ZZ /A001	Using waste exemption	Both agricultural and non- agricultural waste	Spreading of plant matter to confer benefit
F	254m SE	Sandhill Barn Picketts Hill Bordon Hampshire GU35 8TF	EPR/DE5941ZZ /A001	Using waste exemption	Both agricultural and non- agricultural waste	Incorporation of ash into soil
F	254m SE	Sandhill Barn Picketts Hill Bordon Hampshire GU35 8TF	EPR/DE5941ZZ /A001	Using waste exemption	Both agricultural and non- agricultural waste	Use of baled end-of-life tyres in construction







ID	Location	Site	Reference	Category	Sub-Category	Description
F	254m SE	SE Sandhill Barn Picketts Hill EPR Bordon Hampshire GU35 /A00 8TF		Using waste exemption	Both agricultural and non- agricultural waste	Burning of waste as a fuel in a small appliance
F	254m SE	Sandhill Barn Picketts Hill Bordon Hampshire GU35 8TF	EPR/DE5941ZZ /A001	Using waste exemption	Both agricultural and non- agricultural waste	Use of waste derived biodiesel as fuel
F	254m SE	Sandhill Barn Picketts Hill Bordon Hampshire GU35 8TF	EPR/DE5941ZZ /A001	Using waste exemption	Both agricultural and non- agricultural waste	Use of waste for a specified purpose
F	254m SE	Sandhill Barn Picketts Hill Bordon Hampshire GU35 8TF	EPR/DE5941ZZ /A001	Treating waste exemption	Agricultural Waste Only	Treatment of sheep dip for disposal
F	254m SE	Sandhill Barn Picketts Hill Bordon Hampshire GU35 8TF	EPR/DE5941ZZ /A001	Disposing of waste exemption	Both agricultural and non- agricultural waste	Disposal by incineration
F	254m SE	Sandhill Barn Picketts Hill Bordon Hampshire GU35 8TF	EPR/DE5941ZZ /A001	Disposing of waste exemption	Both agricultural and non- agricultural waste	Burning waste in the open
F	254m SE	Sandhill Barn Picketts Hill Bordon Hampshire GU35 8TF	EPR/DE5941ZZ /A001	Treating waste exemption	Both agricultural and non- agricultural waste	Anaerobic digestion at premises used for agriculture and burning of resultant biogas
F	254m SE	Sandhill Barn Picketts Hill Bordon Hampshire GU35 8TF	EPR/DE5941ZZ /A001	Treating waste exemption	Both agricultural and non- agricultural waste	Treatment of waste in a biobed or biofilter
F	254m SE	Sandhill Barn Picketts Hill Bordon Hampshire GU35 8TF	EPR/DE5941ZZ /A001	Treating waste exemption	Both agricultural and non- agricultural waste	Screening and blending of waste







ID	Location	Site	Reference	Category	Sub-Category	Description
F	254m SE	Sandhill Barn Picketts Hill Bordon Hampshire GU35 8TF	EPR/DE5941ZZ /A001	Using waste exemption	Both agricultural and non- agricultural waste	Spreading waste on agricultural land to confer benefit
F	254m SE	Sandhill Barn Picketts Hill Bordon Hampshire GU35 8TF	EPR/DE5941ZZ /A001	Using waste exemption	Both agricultural and non- agricultural waste	Use of mulch
F	254m SE	Sandhill Barn Picketts Hill Bordon Hampshire GU35 8TF	EPR/DE5941ZZ /A001	Using waste exemption	Both agricultural and non- agricultural waste	Use of waste to manufacture finished goods
F	254m SE	Sandhill Barn Picketts Hill Bordon Hampshire GU35 8TF	EPR/DE5941ZZ /A001	Treating waste exemption	Non- Agricultural Waste Only	Physical treatment of waste edible oil and fat to produce biodiesel
F	266m SE	Sandhill Farm Picketts Hill BORDON Hampshire GU35 8TF	EPR/EE5188KB /A001	Using waste exemption	Agricultural Waste Only	Burning of waste as a fuel in a small appliance
F	266m SE	Sandhill Farm Picketts Hill BORDON Hampshire GU35 8TF	EPR/EE5188KB /A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
F	266m SE	Sandhill Farm Picketts Hill BORDON Hampshire GU35 8TF	EPR/EE5188KB /A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
G	291m S	SANDHILL FARM, PICKETTS HILL, SLEAFORD, BORDON, GU35 8TF	WEX171002	Storing waste exemption	On a farm	Storage of waste in a secure place
G	291m S	SANDHILL FARM, PICKETTS HILL, SLEAFORD, BORDON, GU35 8TF	WEX071067	Using waste exemption	On a farm	Use of waste in construction
5	384m W	LITTLETON RIDING STABLES, FARNHAM ROAD, SLEAFORD, BORDON, HAMPSHIRE, GU35 9LW	WEX091320	Using waste exemption	Not on a farm	Use of waste in construction
6	392m W	-	WEX238768	Using waste exemption	On a farm	Use of waste in construction

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







Site Outline

Recent industrial land uses

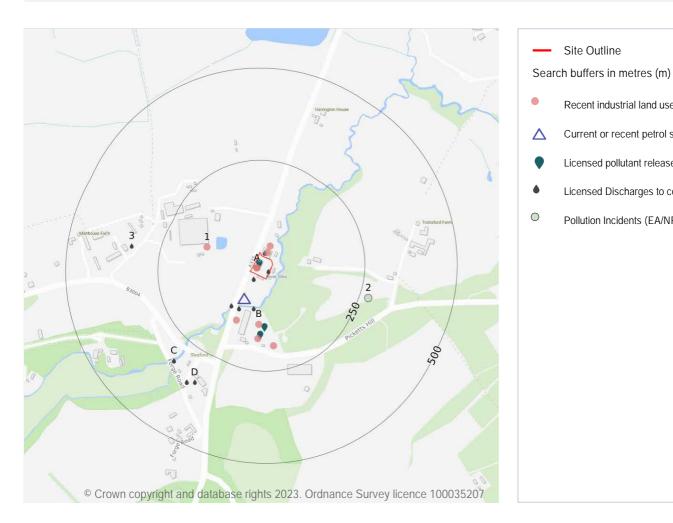
Current or recent petrol stations

Pollution Incidents (EA/NRW)

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

Licensed Discharges to controlled waters

## 4 Current industrial land use



## 4.1 Recent industrial land uses

#### **Records within 250m**

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on page 36 >

ID	Location	Company	Address	Activity	Category
A	On site	BP Service Station	Sleaford Service Station, Farnham Road, Sleaford, Bordon, Hampshire, GU35 0QP		
Α	On site	Mfg Sleaford	Sleaford Service Station, Farnham Road, Sleaford, Bordon, Hampshire, GU35 0QP	Vehicle Cleaning Services	Personal, Consumer and Other Services







ID	Location	Company	Address	Activity	Category
А	33m N	Citroen Leasing	Lmc Sleaford Garage, -, Bordon, Hampshire, GU35 0QP	Vehicle Hire and Rental	Hire Services
В	124m S	Hopper	Hampshire, GU35	Hoppers and Silos	Farming
1	134m W	Electricity Sub Station	Hampshire, GU35	Electrical Features	Infrastructure and Facilities
В	135m SW	Poultry House	Hampshire, GU35	Poultry Farming, Equipment and Supplies	Farming
В	163m S	Hopper	Hampshire, GU35	Hoppers and Silos	Farming
В	182m S	Tank	Hampshire, GU35	Tanks (Generic)	Industrial Features

This data is sourced from Ordnance Survey.

## 4.2 Current or recent petrol stations

#### Records within 500m

Open, closed, under development and obsolete petrol stations.

#### Features are displayed on the Current industrial land use map on page 36 >

ID	Location	Company	Address	LPG	Status
В	74m SW	BP	Farnham Road, Sleaford, Bordon, Hampshire, GU35 0QP	No	Open

This data is sourced from Experian.

## 4.3 Electricity cables

Records within 500m	0
High voltage underground electricity transmission cables.	

This data is sourced from National Grid.

## 4.4 Gas pipelines

#### Records within 500m

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.





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#### 4.5 Sites determined as Contaminated Land

#### Records within 500m

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

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

This data is sourced from the Health and Safety Executive.

## 4.7 Regulated explosive sites

#### Records within 500m

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

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.





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## 4.10 Licensed industrial activities (Part A(1))

#### Records within 500m

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

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

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

#### Records within 500m

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

Features are displayed on the Current industrial land use map on page 36 >

ID	Location	Address	Details	
A	On site	F.W.Kerridge Ltd, Sleaford Service Station, Farnham Road, Kingsley, GU35 0QP	Process: Unloading of Petrol into Storage at Service Stations Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
A	On site	Sleaford Service Station, F.W.Kerridge Ltd, Farnham Road, Bordon, GU35 0QP	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
В	131m S	Aggregare Industries UK Ltd, Land at and adjoining Bordon Garrison and Standford Grange Farm, Camp Road, Bordon, GU35 8TF	Process: Use of Bulk Cement Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
В	152m S	Hanson Premix, Sleaford Sand Pit, Picketts Hill, Sleaford, Bordon, GU35 8TF	Process: Use of Bulk Cement Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.







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## 4.12 Radioactive Substance Authorisations

#### Records within 500m

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

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

## 4.13 Licensed Discharges to controlled waters

#### Records within 500m

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 <u>page 36</u> >

ID	Location	Address	Details	
A	On site	SLEAFORD SERVICE STATION, SLEAFORD, BORDON, HANTS	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CTCU.1887 Permit Version: 1 Receiving Water: SANDY GRAVELSTRATA	Status: REVOKED - UNSPECIFIED Issue date: 03/12/1984 Effective Date: 03/12/1984 Revocation Date: 08/10/1996
A	9m N	SLEAFORD SERVICE STATION, SLEAFORD SERVICE STATION, FARNHAM ROAD, SLEAFORD, BORDON, HAMPSHIRE, GU35 0QP	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: CASM.1505 Permit Version: 1 Receiving Water: RIVER SLEA	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 27/11/2006 Effective Date: 09/10/2006 Revocation Date: -
A	15m SW	SLEAFORD SERVICE STATION, SLEAFORD, BORDON, HANTS	Effluent Type: SEWAGE & TRADE COMBINED - UNSPECIFIED Permit Number: CTWC.2469 Permit Version: 1 Receiving Water: ALLUVIUM OVER FOLKESTONEBEDS	Status: TRANSFERRED FROM COPA 1974 Issue date: 06/06/1988 Effective Date: 06/06/1988 Revocation Date: 14/11/2011
A	15m SW	SLEAFORD SERVICE STATION, SLEAFORD, BORDON, HANTS	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CTWC.2469 Permit Version: 2 Receiving Water: ALLUVIUM OVER FOLKESTONEBEDS	Status: VARIED UNDER EPR 2010 Issue date: 15/11/2011 Effective Date: 15/11/2011 Revocation Date: -





ID	Location	Address	Details	
В	87m S	BORDON PREMIX PLANT, BORDON SAND PI, BORDON PREMIX PLANT, BORDON SAND, PIT, SLEAFORD, BORDON, HAMPSHIR, E	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: CNTM.1107 Permit Version: 1 Receiving Water: POND TRIB OF THE RIVER SLEA	Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 08/10/1993 Effective Date: 08/10/1993 Revocation Date: -
В	104m SW	6 DWELLINGS AT THE NEW INN FIELDS, THE NEW INN FIELDS, FARNHAM ROAD, BORDON, HAMPSHIRE, GU35 9LH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CASM.0687 Permit Version: 1 Receiving Water: INTO LAND AND THE RIVER SLEA	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 06/08/2002 Effective Date: 30/07/2002 Revocation Date: 11/03/2018
В	104m SW	6 DWELLINGS AT THE NEW INN FIELDS, THE NEW INN FIELDS, FARNHAM ROAD, BORDON, HAMPSHIRE, GU35 9LH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CASM.0687 Permit Version: 1 Receiving Water: INTO LAND AND THE RIVER SLEA	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 06/08/2002 Effective Date: 30/07/2002 Revocation Date: 11/03/2018
В	104m SW	6 DWELLINGS AT THE NEW INN FIELDS, THE NEW INN FIELDS, FARNHAM ROAD, BORDON, HAMPSHIRE, GU35 9LH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CASM.0687 Permit Version: 1 Receiving Water: INTO LAND AND THE RIVER SLEA	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 06/08/2002 Effective Date: 30/07/2002 Revocation Date: 11/03/2018
В	104m SW	6 DWELLINGS AT THE NEW INN FIELDS, THE NEW INN FIELDS, FARNHAM ROAD, BORDON, HAMPSHIRE, GU35 9LH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CASM.0687 Permit Version: 1 Receiving Water: INTO LAND AND THE RIVER SLEA	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 06/08/2002 Effective Date: 30/07/2002 Revocation Date: 11/03/2018
В	104m SW	6 DWELLINGS AT THE NEW INN FIELDS, THE NEW INN FIELDS, FARNHAM ROAD, BORDON, HAMPSHIRE, GU35 9LH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CASM.0687 Permit Version: 1 Receiving Water: INTO LAND AND THE RIVER SLEA	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 06/08/2002 Effective Date: 30/07/2002 Revocation Date: 11/03/2018





ID	Location	Address	Details	
В	104m SW	6 DWELLINGS AT THE NEW INN FIELDS, THE NEW INN FIELDS, FARNHAM ROAD, BORDON, HAMPSHIRE, GU35 9LH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CASM.0687 Permit Version: 1 Receiving Water: INTO LAND AND THE RIVER SLEA	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 06/08/2002 Effective Date: 30/07/2002 Revocation Date: 11/03/2018
В	106m SW	GARDEN CENTRE AT OSBORNE FARMS, COUNTRY MARKET, OSBORNE FARMS, BORDON, HAMPSHIRE, GU35 0QP	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: EPRDB3290DD Permit Version: 1 Receiving Water: RIVER SLEA	Status: NEW ISSUED UNDER EPR 2010 Issue date: 15/10/2015 Effective Date: 15/10/2015 Revocation Date: -
С	318m SW	6 DWELLINGS AT THE NEW INN FIELDS, THE NEW INN FIELDS, FARNHAM ROAD, BORDON, HAMPSHIRE, GU35 9LH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CASM.0687 Permit Version: 2 Receiving Water: INTO LAND AND THE RIVER SLEA	Status: VARIED UNDER EPR 2010 Issue date: 12/03/2018 Effective Date: 12/03/2018 Revocation Date: -
С	318m SW	6 DWELLINGS AT THE NEW INN FIELDS, THE NEW INN FIELDS, FARNHAM ROAD, BORDON, HAMPSHIRE, GU35 9LH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CASM.0687 Permit Version: 2 Receiving Water: INTO LAND AND THE RIVER SLEA	Status: VARIED UNDER EPR 2010 Issue date: 12/03/2018 Effective Date: 12/03/2018 Revocation Date: -
С	318m SW	6 DWELLINGS AT THE NEW INN FIELDS, THE NEW INN FIELDS, FARNHAM ROAD, BORDON, HAMPSHIRE, GU35 9LH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CASM.0687 Permit Version: 2 Receiving Water: INTO LAND AND THE RIVER SLEA	Status: VARIED UNDER EPR 2010 Issue date: 12/03/2018 Effective Date: 12/03/2018 Revocation Date: -
С	318m SW	6 DWELLINGS AT THE NEW INN FIELDS, THE NEW INN FIELDS, FARNHAM ROAD, BORDON, HAMPSHIRE, GU35 9LH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CASM.0687 Permit Version: 2 Receiving Water: INTO LAND AND THE RIVER SLEA	Status: VARIED UNDER EPR 2010 Issue date: 12/03/2018 Effective Date: 12/03/2018 Revocation Date: -





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ID	Location	Address	Details	
С	318m SW	6 DWELLINGS AT THE NEW INN FIELDS, THE NEW INN FIELDS, FARNHAM ROAD, BORDON, HAMPSHIRE, GU35 9LH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CASM.0687 Permit Version: 2 Receiving Water: INTO LAND AND THE RIVER SLEA	Status: VARIED UNDER EPR 2010 Issue date: 12/03/2018 Effective Date: 12/03/2018 Revocation Date: -
С	318m SW	6 DWELLINGS AT THE NEW INN FIELDS, THE NEW INN FIELDS, FARNHAM ROAD, BORDON, HAMPSHIRE, GU35 9LH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CASM.0687 Permit Version: 2 Receiving Water: INTO LAND AND THE RIVER SLEA	Status: VARIED UNDER EPR 2010 Issue date: 12/03/2018 Effective Date: 12/03/2018 Revocation Date: -
3	328m W	THE MALTHOUSE, MALTHOUSE CORNER, KI, THE MALTHOUSE, MALTHOUSE CORNER, KINGSLEY, ALTON, HANTS	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CTWC.2419 Permit Version: 1 Receiving Water: FOLKESTONE BEDS	Status: LAPSED UNDER SCHEDULE 23 ENVIRONMENT ACT 1995 Issue date: 13/05/1988 Effective Date: 13/05/1988 Revocation Date: 01/10/1996
D	336m SW	THE NEW INN PH, SLEAFORD, HANTS, THE NEW INN PH, SLEAFORD, HANTS	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CTCU.0779 Permit Version: 1 Receiving Water: SAND STRATA	Status: LAPSED UNDER SCHEDULE 23 ENVIRONMENT ACT 1995 Issue date: 21/09/1977 Effective Date: 21/09/1977 Revocation Date: 01/10/1996
D	345m SW	6 DWELLINGS AT THE NEW INN FIELDS, THE NEW INN FIELDS, FARNHAM ROAD, BORDON, HAMPSHIRE, GU35 9LH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CASM.0687 Permit Version: 2 Receiving Water: INTO LAND AND THE RIVER SLEA	Status: VARIED UNDER EPR 2010 Issue date: 12/03/2018 Effective Date: 12/03/2018 Revocation Date: -
D	345m SW	6 DWELLINGS AT THE NEW INN FIELDS, THE NEW INN FIELDS, FARNHAM ROAD, BORDON, HAMPSHIRE, GU35 9LH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CASM.0687 Permit Version: 2 Receiving Water: INTO LAND AND THE RIVER SLEA	Status: VARIED UNDER EPR 2010 Issue date: 12/03/2018 Effective Date: 12/03/2018 Revocation Date: -







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ID	Location	Address	Details			
D	345m SW	6 DWELLINGS AT THE NEW INN FIELDS, THE NEW INN FIELDS, FARNHAM ROAD, BORDON, HAMPSHIRE, GU35 9LH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CASM.0687 Permit Version: 2 Receiving Water: INTO LAND AND THE RIVER SLEA	Status: VARIED UNDER EPR 2010 Issue date: 12/03/2018 Effective Date: 12/03/2018 Revocation Date: -		
D	345m SW	6 DWELLINGS AT THE NEW INN FIELDS, THE NEW INN FIELDS, FARNHAM ROAD, BORDON, HAMPSHIRE, GU35 9LH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CASM.0687 Permit Version: 2 Receiving Water: INTO LAND AND THE RIVER SLEA	Status: VARIED UNDER EPR 2010 Issue date: 12/03/2018 Effective Date: 12/03/2018 Revocation Date: -		
D	345m SW	6 DWELLINGS AT THE NEW INN FIELDS, THE NEW INN FIELDS, FARNHAM ROAD, BORDON, HAMPSHIRE, GU35 9LH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CASM.0687 Permit Version: 2 Receiving Water: INTO LAND AND THE RIVER SLEA	Status: VARIED UNDER EPR 2010 Issue date: 12/03/2018 Effective Date: 12/03/2018 Revocation Date: -		
D	345m SW	6 DWELLINGS AT THE NEW INN FIELDS, THE NEW INN FIELDS, FARNHAM ROAD, BORDON, HAMPSHIRE, GU35 9LH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CASM.0687 Permit Version: 2 Receiving Water: INTO LAND AND THE RIVER SLEA	Status: VARIED UNDER EPR 2010 Issue date: 12/03/2018 Effective Date: 12/03/2018 Revocation Date: -		

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.







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#### 4.15 Pollutant release to public sewer

#### Records within 500m

#### 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

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

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

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

Features are displayed on the Current industrial land use map on page 36 >

ID	Location	Details	
2	274m E	Incident Date: 11/11/2003 Incident Identification: 200905 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 3 (Minor)

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





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### 4.19 Pollution inventory substances

#### Records within 500m

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

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

### 4.20 Pollution inventory waste transfers

#### Records within 500m

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

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.





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# 5 Hydrogeology - Superficial aquifer



# 5.1 Superficial aquifer

Records within 500m	5			
Aquifer status of groundwater held within superficial geology.				
Features are displayed on the Hydrogeology map on page 47 >				

ID	Location	Designation	Description	
1	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	108m 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	







ID	Location	Designation	Description
3	359m SW	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
4	445m 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
5	487m NW	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

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







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# Bedrock aquifer



# 5.2 Bedrock aquifer

Records within 500m	4
Aquifer status of groundwater held within bedrock geology.	
Features are displayed on the Bedrock aquifer map on page 49 >	

ID	Location	Designation	Description
1	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
2	129m N	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow







ID	Location	Designation	Description
3	351m W	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
4	426m NW	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

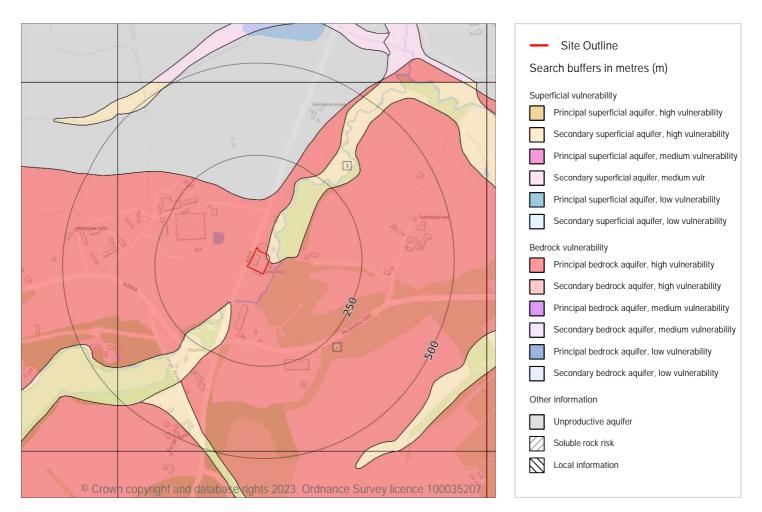
This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.







# Groundwater vulnerability



# 5.3 Groundwater vulnerability

#### Records within 50m

2

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 51 >







ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300- 550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
2	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300- 550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures

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

### 5.4 Groundwater vulnerability- soluble rock risk

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

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

### 5.5 Groundwater vulnerability- local information

#### Records on site

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.



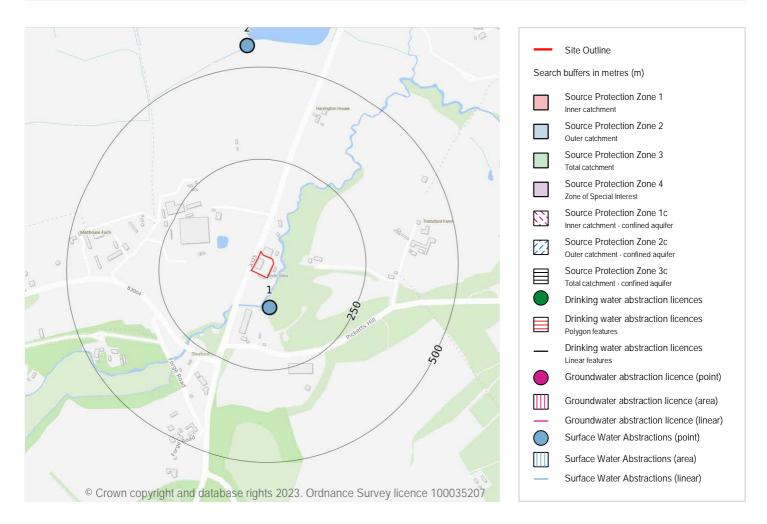


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# Abstractions and Source Protection Zones



### 5.6 Groundwater abstractions

#### Records within 2000m

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 53 >







Ref: EMS-915356\_1167024 Your ref: EMS\_915356\_1134517 Grid ref: 480383 138513

ID	Location	Details	
-	802m NE	Status: Active Licence No: TH/039/0030/046 Details: Dewatering Direct Source: THAMES GROUNDWATER Point: FOLKESTONE BEDS FORMATION AT FRITH END QUARRY Data Type: Poly4 Name: Grundon Sand and Gravel Ltd Easting: 481075 Northing: 138979	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: NPS/NA/001237 Original Start Date: 23/03/2021 Expiry Date: 31/12/2025 Issue No: 1 Version Start Date: 23/03/2021 Version End Date: -
-	815m NE	Status: Historical Licence No: 28/39/30/0363 Details: Mineral Washing Direct Source: THAMES GROUNDWATER Point: FRITHEND SANDPIT, FRITHEND, BORDON Data Type: Poly4 Name: GRUNDON WASTE MANAGEMENT LTD Easting: 481110 Northing: 138960	Annual Volume (m <sup>3</sup> ): 136383 Max Daily Volume (m <sup>3</sup> ): 681.90 Original Application No: NPS/WR/006919 Original Start Date: 26/08/1992 Expiry Date: 31/12/2022 Issue No: 101 Version Start Date: 28/03/2011 Version End Date: -
-	1139m E	Status: Active Licence No: 28/39/30/0076 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: HEADLEY PARK PUMPING STATION POINT E Data Type: Point Name: South East Water Ltd Easting: 481550 Northing: 138570	Annual Volume (m <sup>3</sup> ): 3319000 Max Daily Volume (m <sup>3</sup> ): 13650 Original Application No: NPS/WR/005405 Original Start Date: 09/05/1966 Expiry Date: - Issue No: 103 Version Start Date: 27/10/2010 Version End Date: -
-	1185m E	Status: Active Licence No: 28/39/30/0076 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: HEADLEY PARK PUMPING STATION POINT F Data Type: Point Name: South East Water Ltd Easting: 481590 Northing: 138650	Annual Volume (m <sup>3</sup> ): 3319000 Max Daily Volume (m <sup>3</sup> ): 13650 Original Application No: NPS/WR/005405 Original Start Date: 09/05/1966 Expiry Date: - Issue No: 103 Version Start Date: 27/10/2010 Version End Date: -
-	1268m E	Status: Active Licence No: 28/39/30/0076 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: HEADLEY PARK PUMPING STATION POINT A Data Type: Point Name: South East Water Ltd Easting: 481680 Northing: 138520	Annual Volume (m <sup>3</sup> ): 3319000 Max Daily Volume (m <sup>3</sup> ): 13650 Original Application No: NPS/WR/005405 Original Start Date: 09/05/1966 Expiry Date: - Issue No: 103 Version Start Date: 27/10/2010 Version End Date: -







Ref: EMS-915356\_1167024 Your ref: EMS\_915356\_1134517 Grid ref: 480383 138513

ID	Location	Details	
-	1324m E	Status: Active Licence No: 28/39/30/0076 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: HEADLEY PARK PUMPING STATION POINT B Data Type: Point Name: South East Water Ltd Easting: 481730 Northing: 138650	Annual Volume (m <sup>3</sup> ): 3319000 Max Daily Volume (m <sup>3</sup> ): 13650 Original Application No: NPS/WR/005405 Original Start Date: 09/05/1966 Expiry Date: - Issue No: 103 Version Start Date: 27/10/2010 Version End Date: -
-	1449m E	Status: Active Licence No: 28/39/30/0076 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: HEADLEY PARK PUMPING STATION POINT C Data Type: Point Name: South East Water Ltd Easting: 481860 Northing: 138580	Annual Volume (m <sup>3</sup> ): 3319000 Max Daily Volume (m <sup>3</sup> ): 13650 Original Application No: NPS/WR/005405 Original Start Date: 09/05/1966 Expiry Date: - Issue No: 103 Version Start Date: 27/10/2010 Version End Date: -
-	1565m E	Status: Active Licence No: 28/39/30/0076 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: HEADLEY PARK PUMPING STATION POINT D Data Type: Point Name: South East Water Ltd Easting: 481970 Northing: 138670	Annual Volume (m <sup>3</sup> ): 3319000 Max Daily Volume (m <sup>3</sup> ): 13650 Original Application No: NPS/WR/005405 Original Start Date: 09/05/1966 Expiry Date: - Issue No: 103 Version Start Date: 27/10/2010 Version End Date: -

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

### 5.7 Surface water abstractions

#### Records within 2000m

larger area.

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

Features are displayed on the Abstractions and Source Protection Zones map on page 53 >





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ID	Location	Details	
1	80m S	Status: Historical Licence No: 28/39/30/0028 Details: Process water Direct Source: THAMES SURFACE WATER - NON TIDAL Point: RIVER SLEA AT SLEAFORD Data Type: Point Name: HANSON QUARRY PROD EUROPE LTD Easting: 480400 Northing: 138400	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 10/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 10/01/1966 Version End Date: -
2	558m N	Status: Historical Licence No: 28/39/30/0375 Details: Spray Irrigation - Storage Direct Source: THAMES SURFACE WATER - NON TIDAL Point: TRIB OF RIVER SLEA AT OSBORNE FARM, KINGSLEY Data Type: Point Name: MARSHALL Easting: 480340 Northing: 139110	Annual Volume (m <sup>3</sup> ): 22500 Max Daily Volume (m <sup>3</sup> ): 2160 Original Application No: WRA/6325 Original Start Date: 14/06/1995 Expiry Date: - Issue No: 100 Version Start Date: 14/06/1995 Version End Date: -
-	764m SW	Status: Historical Licence No: 28/39/30/0026 Details: Spray Irrigation - Direct Direct Source: THAMES SURFACE WATER - NON TIDAL Point: RIVER SLEA AT DEAN FARM, KINGSLEY Data Type: Line Name: G DOGGRELL & SONS Easting: 477900 Northing: 137600	Annual Volume (m <sup>3</sup> ): 9092 Max Daily Volume (m <sup>3</sup> ): 909.20 Original Application No: WRA/686 Original Start Date: 10/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 05/03/1980 Version End Date: -
-	1430m E	Status: Historical Licence No: 28/39/30/0347 Details: Fish Farm/Cress Pond Throughflow Direct Source: THAMES SURFACE WATER - NON TIDAL Point: RIVER WEY (SOUTH) AT HEADLEY PARK COUNTRY CLUB Data Type: Point Name: LITHUANIAN HOUSE LIMITED Easting: 481830 Northing: 138330	Annual Volume (m <sup>3</sup> ): 2635200 Max Daily Volume (m <sup>3</sup> ): 7200 Original Application No: WRE/50 Original Start Date: 01/04/1991 Expiry Date: - Issue No: 101 Version Start Date: 01/08/2006 Version End Date: -
-	1725m W	Status: Historical Licence No: 28/39/30/0372 Details: Make-Up or Top Up Water Direct Source: THAMES SURFACE WATER - NON TIDAL Point: TRIB OF RIVER SLEA AT KINGSLEY Data Type: Point Name: OAKHANGER ANGLING CLUB Easting: 478700 Northing: 138000	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 23/12/1994 Expiry Date: 31-Dec-04 Issue No: 100 Version Start Date: 23/12/1994 Version End Date: -







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ID	Location	Details	
-	1793m SW	Status: Historical Licence No: 28/39/30/0026 Details: Spray Irrigation - Direct Direct Source: THAMES SURFACE WATER - NON TIDAL Point: KINGSLEY DITCHES AT DEAN FARM, KINGSLEY Data Type: Line Name: G DOGGRELL & SONS Easting: 478400 Northing: 138100	Annual Volume (m <sup>3</sup> ): 9092 Max Daily Volume (m <sup>3</sup> ): 909.20 Original Application No: WRA/686 Original Start Date: 10/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 05/03/1980 Version End Date: -
-	1849m N	Status: Historical Licence No: 28/39/30/0335 Details: Make-Up Or Top Up Water Direct Source: THAMES SURFACE WATER - NON TIDAL Point: TRIB OF RIVER SLEA AT FRITH END, BORDON Data Type: Point Name: HEAD Easting: 480300 Northing: 140400	Annual Volume (m <sup>3</sup> ): 2273 Max Daily Volume (m <sup>3</sup> ): 1364 Original Application No: - Original Start Date: 21/11/1988 Expiry Date: - Issue No: 101 Version Start Date: 01/04/2003 Version End Date: -

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

### 5.8 Potable abstractions

#### Records within 2000m

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 53 >

ID	Location	Details	
-	1139m E	Status: Active Licence No: 28/39/30/0076 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: HEADLEY PARK PUMPING STATION POINT E Data Type: Point Name: South East Water Ltd Easting: 481550 Northing: 138570	Annual Volume (m <sup>3</sup> ): 3319000 Max Daily Volume (m <sup>3</sup> ): 13650 Original Application No: NPS/WR/005405 Original Start Date: 09/05/1966 Expiry Date: - Issue No: 103 Version Start Date: 27/10/2010 Version End Date: -





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ID	Location	Details	
-	1185m E	Status: Active Licence No: 28/39/30/0076 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: HEADLEY PARK PUMPING STATION POINT F Data Type: Point Name: South East Water Ltd Easting: 481590 Northing: 138650	Annual Volume (m <sup>3</sup> ): 3319000 Max Daily Volume (m <sup>3</sup> ): 13650 Original Application No: NPS/WR/005405 Original Start Date: 09/05/1966 Expiry Date: - Issue No: 103 Version Start Date: 27/10/2010 Version End Date: -
-	1268m E	Status: Active Licence No: 28/39/30/0076 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: HEADLEY PARK PUMPING STATION POINT A Data Type: Point Name: South East Water Ltd Easting: 481680 Northing: 138520	Annual Volume (m <sup>3</sup> ): 3319000 Max Daily Volume (m <sup>3</sup> ): 13650 Original Application No: NPS/WR/005405 Original Start Date: 09/05/1966 Expiry Date: - Issue No: 103 Version Start Date: 27/10/2010 Version End Date: -
-	1324m E	Status: Active Licence No: 28/39/30/0076 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: HEADLEY PARK PUMPING STATION POINT B Data Type: Point Name: South East Water Ltd Easting: 481730 Northing: 138650	Annual Volume (m <sup>3</sup> ): 3319000 Max Daily Volume (m <sup>3</sup> ): 13650 Original Application No: NPS/WR/005405 Original Start Date: 09/05/1966 Expiry Date: - Issue No: 103 Version Start Date: 27/10/2010 Version End Date: -
-	1449m E	Status: Active Licence No: 28/39/30/0076 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: HEADLEY PARK PUMPING STATION POINT C Data Type: Point Name: South East Water Ltd Easting: 481860 Northing: 138580	Annual Volume (m <sup>3</sup> ): 3319000 Max Daily Volume (m <sup>3</sup> ): 13650 Original Application No: NPS/WR/005405 Original Start Date: 09/05/1966 Expiry Date: - Issue No: 103 Version Start Date: 27/10/2010 Version End Date: -
-	1565m E	Status: Active Licence No: 28/39/30/0076 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: HEADLEY PARK PUMPING STATION POINT D Data Type: Point Name: South East Water Ltd Easting: 481970 Northing: 138670	Annual Volume (m <sup>3</sup> ): 3319000 Max Daily Volume (m <sup>3</sup> ): 13650 Original Application No: NPS/WR/005405 Original Start Date: 09/05/1966 Expiry Date: - Issue No: 103 Version Start Date: 27/10/2010 Version End Date: -

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







### **5.9 Source Protection Zones**

#### Records within 500m

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

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

# 5.10 Source Protection Zones (confined aquifer)

#### Records within 500m

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.



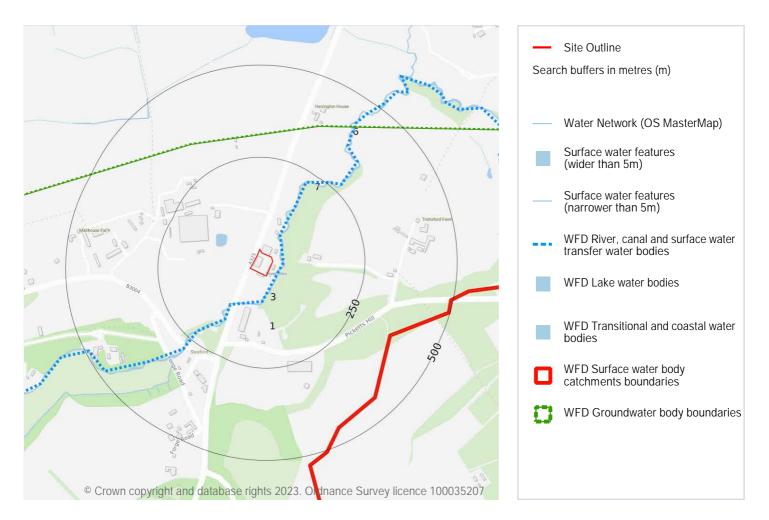


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# 6 Hydrology



# 6.1 Water Network (OS MasterMap)

#### Records within 250m

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 60 >

ID	Location	Type of water feature	Ground level	Permanence	Name
3	22m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Slea







4

1

ID	Location	Type of water feature	Ground level	Permanence	Name
6	230m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Slea
7	231m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	River Slea

This data is sourced from the Ordnance Survey.

### 6.2 Surface water features

Records within 250m

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 60 >

This data is sourced from the Ordnance Survey.

### 6.3 WFD Surface water body catchments

#### Records on site

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 60 >

ID	Location	Туре	Water body catchment	Water body ID	Operational catchment	Management catchment
А	On site	River	Slea (Kingsley to Sleaford)	GB106039017750	Wey	Wey and Trib

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







### 6.4 WFD Surface water bodies

#### **Records identified**

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 60 >

ID	Location	Туре	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
В	23m SE	River	Slea (Kingsley to Sleaford)	<u>GB106039017750</u> 7	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 60 >

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
1	On site	Godalming Lower Greensand	<u>GB40601G601900</u> ↗	Poor	Poor	Good	2019

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







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# 7 River and coastal flooding



### 7.1 Risk of flooding from rivers and the sea

#### Records within 50m

8

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m within the Risk of Flooding from Rivers and Sea (RoFRaS)/Flood Risk Assessment Wales (FRAW) models. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition. The risk categories for RoFRaS for rivers and the sea and FRAW for rivers are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance). Medium (less than 1 in 30 but greater than or equal to 1 in 30 chance). The risk categories for FRAW for the sea are; Very low (less than 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 1000 chance), Medium (less than 1 in 200 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 200 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 200 but greater than or equal to 1 in 1000 chance), Medium (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 63 >







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

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

# 7.2 Historical Flood Events

#### Records within 250m

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

Features are displayed on the River and coastal flooding map on page 63 >

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
2	On site	06septemberautumn 1968	1968-01-01 1968-12-12	Main river	Channel capacity exceeded (no raised defences)	Fluvial

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

# 7.3 Flood Defences

#### Records within 250m

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

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.





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### 7.5 Flood Storage Areas

#### Records within 250m

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.

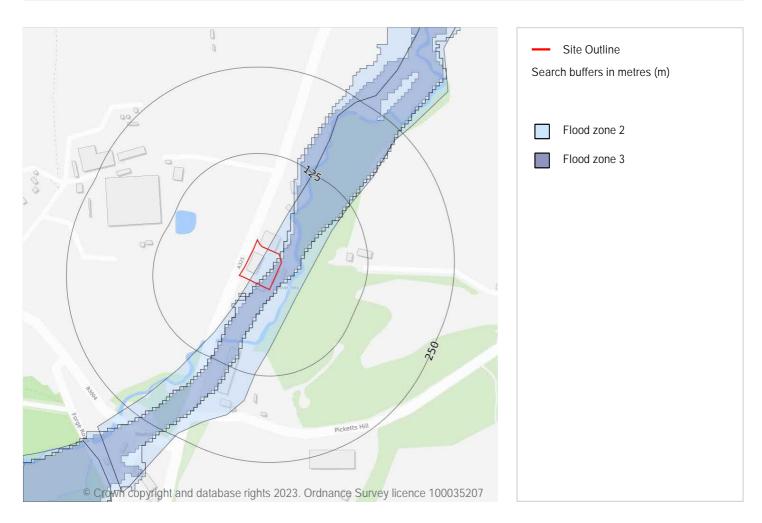






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# River and coastal flooding - Flood Zones



# 7.6 Flood Zone 2

#### Records within 50m

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 63 >

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

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 63 >

Location	Туре
On site	Zone 3 - (Fluvial Models)

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







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# 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, Greater than 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 68 >

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







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

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

This data is sourced from Ambiental Risk Analytics.

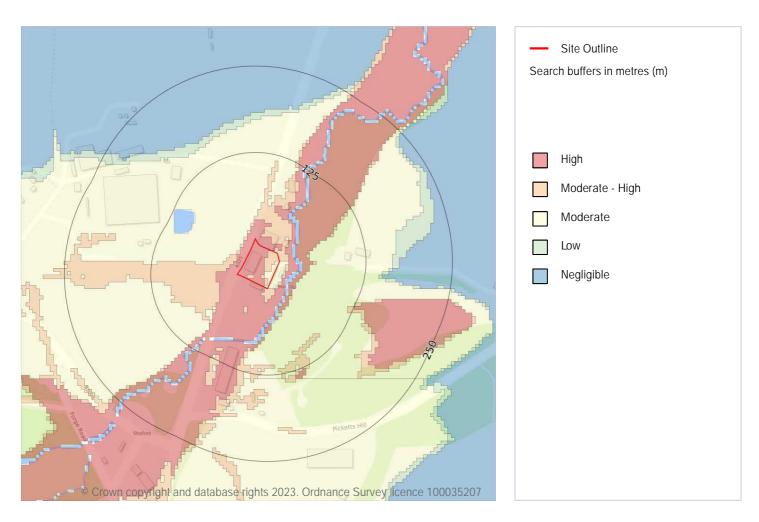






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# 9 Groundwater flooding



# 9.1 Groundwater flooding

Highest risk on site	High
Highest risk within 50m	High

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

Features are displayed on the Groundwater flooding map on page 70 >

This data is sourced from Ambiental Risk Analytics.

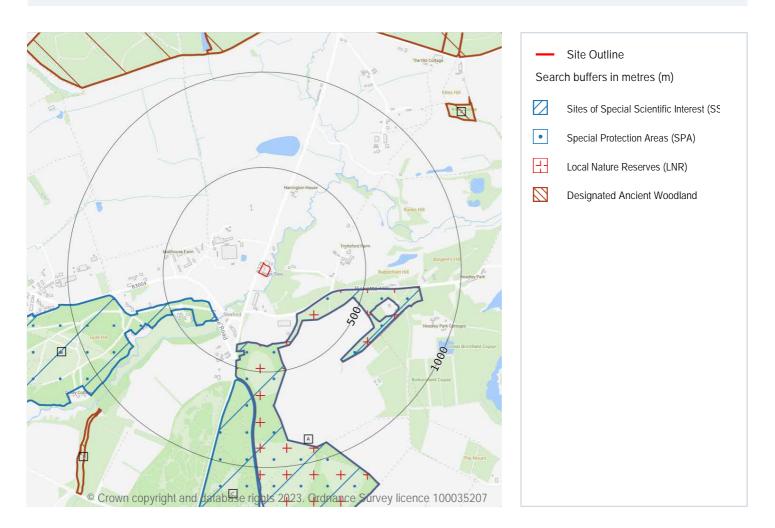






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# 10 Environmental designations



### 10.1 Sites of Special Scientific Interest (SSSI)

#### Records within 2000m

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 71 >

ID	Location	Name	Data source
А	251m SE	Broxhead and Kingsley Commons	Natural England







ID	Location	Name	Data source
В	304m SW	Broxhead and Kingsley Commons	Natural England
С	562m S	Broxhead and Kingsley Commons	Natural England

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

unspecified

## 10.2 Conserved wetland sites (Ramsar sites)

#### Records within 2000m

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

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

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

Features are displayed on the Environmental designations map on page 71 >



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ID	Location	Name	Species of interest	Habitat description	Data source
A	251m SE	Wealden Heaths Phase II	European nightjar; Wood lark; Dartford warbler	Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Bogs, Marshes, Water fringed vegetation, Fens; Coniferous woodland; Improved grassland; Broad-leaved deciduous woodland; Mixed woodland; Dry grassland, Steppes; Heath, Scrub, Maquis and Garrigue, Phygrana	Natural England
В	304m SW	Wealden Heaths Phase II	European nightjar; Wood lark; Dartford warbler	Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Bogs, Marshes, Water fringed vegetation, Fens; Coniferous woodland; Improved grassland; Broad-leaved deciduous woodland; Mixed woodland; Dry grassland, Steppes; Heath, Scrub, Maquis and Garrigue, Phygrana	Natural England
С	562m S	Wealden Heaths Phase II	European nightjar; Wood lark; Dartford warbler	Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Bogs, Marshes, Water fringed vegetation, Fens; Coniferous woodland; Improved grassland; Broad-leaved deciduous woodland; Mixed woodland; Dry grassland, Steppes; Heath, Scrub, Maquis and Garrigue, Phygrana	Natural England

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

# 10.5 National Nature Reserves (NNR)

Records within 2000m
Sites containing examples of some of the most important natural and semi-

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

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

# 10.6 Local Nature Reserves (LNR)

#### Records within 2000m

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.

Features are displayed on the Environmental designations map on page 71 >



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ID	Location	Name	Data source
А	251m SE	Broxhead Common	Natural England

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

unspecified

# 10.7 Designated Ancient Woodland

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 71 >

ID	Location	Name	Woodland Type
1	1096m SW	Unknown	Ancient & Semi-Natural Woodland
2	1124m N	Straits Inclosure	Ancient & Semi-Natural Woodland
3	1133m N	Straits Inclosure	Ancient & Semi-Natural Woodland
4	1230m NE	Kites Copse	Ancient & Semi-Natural Woodland
5	1339m N	Abbotts Wood Inclosure	Ancient & Semi-Natural Woodland
-	1344m E	Taylor's Copse	Ancient Replanted Woodland
-	1419m N	Goose Green Inclosure	Ancient & Semi-Natural Woodland
-	1425m N	Unknown	Ancient & Semi-Natural Woodland
9	1443m NE	Abbotts Wood Inclosure	Ancient Replanted Woodland
10	1483m NE	Abbotts Wood Inclosure	Ancient Replanted Woodland
-	1530m SE	Taylor's Copse	Ancient & Semi-Natural Woodland
-	1562m NW	Straits Inclosure	Ancient Replanted Woodland
-	1681m N	Goose Green Inclosure	Ancient Replanted Woodland
-	1791m NW	Stephenfield Copse	Ancient & Semi-Natural Woodland
-	1792m NE	Abbotts Wood Inclosure	Ancient & Semi-Natural Woodland
-	1848m SE	Taylor's Copse	Ancient Replanted Woodland
-	1949m N	Goose Green Inclosure	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.

### **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

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 2000m0Areas 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

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.





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### 10.13 Possible Special Areas of Conservation (pSAC)

#### Records within 2000m

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

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

### 10.14 Potential Special Protection Areas (pSPA)

#### Records within 2000m

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

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

Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These 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.

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





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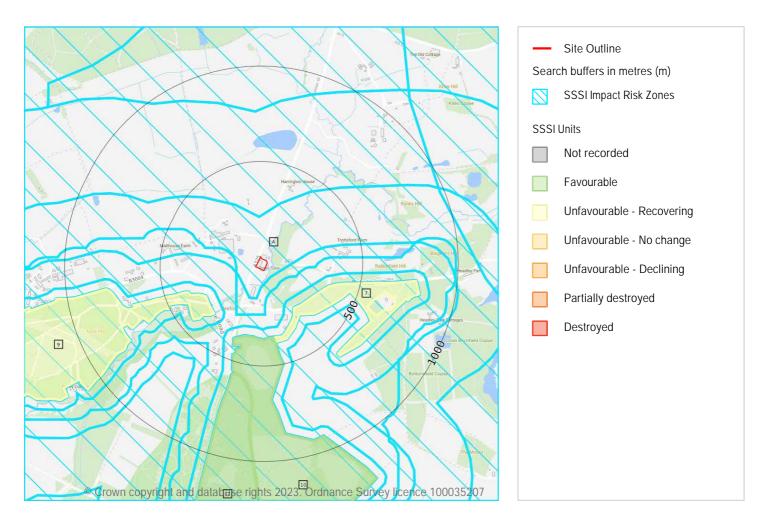
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# SSSI Impact Zones and Units



### 10.17 SSSI Impact Risk Zones

#### Records on site

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

Features are displayed on the SSSI Impact Zones and Units map on page 77 >







ID	Location	Type of developments requiring consultation
A	On site	All applications - All planning applications (except householder) outside or extending outside existing settlements/urban areas affecting greenspace, farmland, semi natural habitats or landscape features such as trees, hedges, streams, rural buildings/structures. Infrastructure - Pipelines and underground cables, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals. Wind and Solar - Solar schemes with footprint > 0.5ha, all wind turbines.
		Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction. Rural non-residential - Large non residential developments outside existing settlements/urban areas where net additional gross internal floorspace is > 1,000m <sup>2</sup> or footprint exceeds 0.2ha. Residential - Residential development of 50 units or more.
		Rural residential - Any residential developments outside of existing settlements/urban areas with a total net gain in residential units.
		Air pollution - Any development that could cause AIR POLLUTION (incl: industrial/commercial processes, livestock & poultry units, slurry lagoons & digestate stores, manure stores).
		Combustion - All general combustion processes. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.
		Waste - Mechanical and biological waste treatment, inert landfill, non-hazardous landfill, hazardous landfill, household civic amenity recycling facilities construction, demolition and excavation waste, other waste management.
		Composting - Any composting proposal. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management.
		Discharges - Any discharge of water or liquid waste of more than 20m rday to ground (ie to seep away) or to surface water, such as a beck or stream.
		Water supply - Large infrastructure such as warehousing / industry where net additional gross internal floorspace is > 1,000m <sup>2</sup> or any development needing its own water supply .
		Notes: Strategic solutions for recreational impacts are in place. Please contact your Local Planning Authority as they have the information to advise on specific requirements.

This data is sourced from Natural England.

### 10.18 SSSI Units

#### Records within 2000m

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 77 >

ID: Location: SSSI name: Unit name: Broad habitat: Condition:	7 251m SE Broxhead and Kingsley Commons 4 Dwarf Shrub Heath - Lowland Unfavourable - Recovering
Condition:	Unfavourable - Recovering



Contact us with any questions at: <u>info@groundsure.com</u> ∧ 01273 257 755





#### Reportable features:

Feature name	Feature condition	Date of assessment
Lowland dry heath	Unfavourable - Recovering	10/09/2012

ID:	9
Location:	304m SW
SSSI name:	Broxhead and Kingsley Commons
Unit name:	1
Broad habitat:	Dwarf Shrub Heath - Lowland
Condition:	Unfavourable - Recovering
Reportable features:	

Feature name	Feature condition	Date of assessment
Invert. assemblage F111 bare sand & chalk	Favourable	06/08/2012
Lowland dry acid grassland (U1b,c,d,f)	Favourable	06/08/2012
Lowland dry heath	Unfavourable - Recovering	06/08/2012

ID:	10
Location:	353m S
SSSI name:	Broxhead and Kingsley Commons
Unit name:	3
Broad habitat:	Dwarf Shrub Heath - Lowland
Condition:	Favourable
Reportable features:	

Feature name	Feature condition	Date of assessment
Lowland dry heath	Favourable	06/08/2012

ID:	12
Location:	562m S
SSSI name:	Broxhead and Kingsley Commons
Unit name:	2
Broad habitat:	Dwarf Shrub Heath - Lowland
Condition:	Favourable
Reportable features:	







Feature name	Feature condition	Date of assessment
Invert. assemblage F111 bare sand & chalk	Favourable	10/09/2012
Lowland dry acid grassland (U1b,c,d,f)	Favourable	10/09/2012
Lowland dry heath	Favourable	10/09/2012
Sand lizard, Lacerta agilis	Favourable	10/09/2012

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







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# 11 Visual and cultural designations

### **11.1 World Heritage Sites**

#### Records within 250m

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

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

### 11.2 Area of Outstanding Natural Beauty

#### Records within 250m

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**

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 wellbeing 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

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.





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

### **11.5 Conservation Areas**

#### Records within 250m

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

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

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.

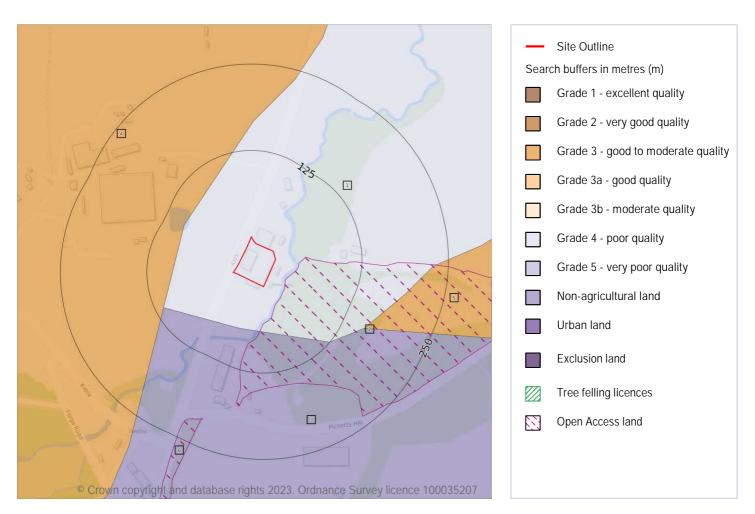






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# 12 Agricultural designations



### 12.1 Agricultural Land Classification

#### Records within 250m

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 83 >

ID	Location	Classification	Description
1	On site	Grade 4	Poor quality agricultural land. Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.







ID	Location	Classification	Description
3	65m S	Non Agricultural	-
4	85m W	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.
5	158m 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.

This data is sourced from Natural England.

### 12.2 Open Access Land

Record	s within 250m		2

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.

Features are displayed on the Agricultural designations map on page 83 >

ID	Location	Name	Classification	Other relevant legislation
2	25m SE	Broxhead Heath	Section 4 Conclusive Registered Common Land	-
6	211m S	-	Section 4 Conclusive Open Country	-

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	o fell trees
must ensure that a licence or permission under a grant scheme has been issued by the Forestry Com	mission

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	1

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

Location	Reference	Scheme	Start Date	End date
210m S	AG00305880	Higher Level Stewardship	01/10/2010	30/09/2023

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.

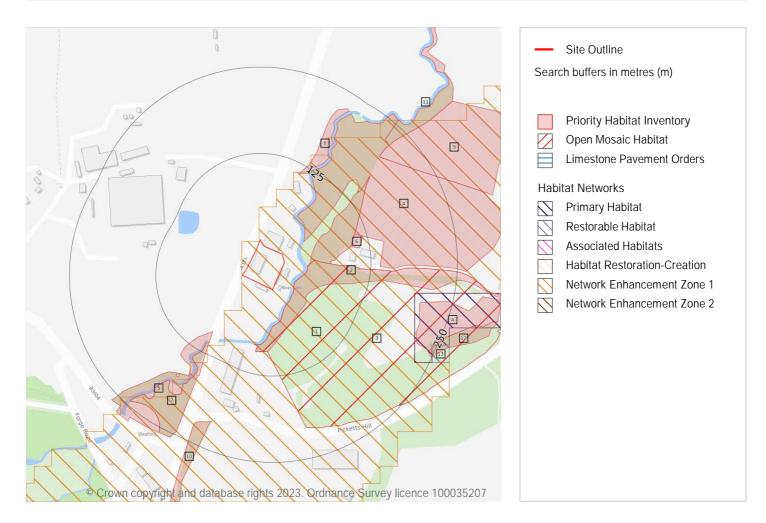






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# 13 Habitat designations



### 13.1 Priority Habitat Inventory

#### Records within 250m

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

#### Features are displayed on the Habitat designations map on page 86 >

ID	Location	Main Habitat	Other habitats
2	25m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	36m NE	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
5	92m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
6	98m E	Deciduous woodland	Main habitat: CFPGM (INV > 50%); DWOOD (INV > 50%)







ID	Location	Main Habitat	Other habitats	
7	108m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)	
8	110m N	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)	
9	199m NE	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)	
А	204m E	Lowland heathland	Main habitat: LHEAT (INV > 50%)	
10	210m S	No main habitat but additional habitats present	Additional: LHEAT (FEP 50%); LDAGR (FEP 50%)	
11	220m NE	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)	
12	243m SE	No main habitat but additional habitats present	Main habitat: LHEAT (INV > 50%)	

This data is sourced from Natural England.

### 13.2 Habitat Networks

Records within 250m 3
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Habitat networks for 18 priority habitat networks (based primarily, but not exclusively, on the priority habitat inventory) and areas suitable for the expansion of networks through restoration and habitat creation.

Features are displayed on the Habitat designations map on page 86 >

ID	Location	Туре	Habitat	
1	On site	Network Enhancement Zone 1	Not specified	
А	193m E	Primary Habitat	Lowland heathland	
13	243m SE	Restorable Habitat	Not specified	

This data is sourced from Natural England.

### 13.3 Open Mosaic Habitat

Records within 250m	1
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, supporti	ng an

array of invertebrates. Features are displayed on the Habitat designations map on <u>page 86</u> >







0

ID	Location	Site reference	Identificati on confidence	Primary source	Secondary source	Tertiary source
3	25m SE	BRITPITS ref: 7122; HLD_refs: EAHLD3558 5	Low	British Geological Survey BRITPITS database	Environment Agency Historic Landfill Sites	UK Perspectives Aerial Photography

This data is sourced from Natural England.

### **13.4 Limestone Pavement Orders**

#### Records within 250m

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.

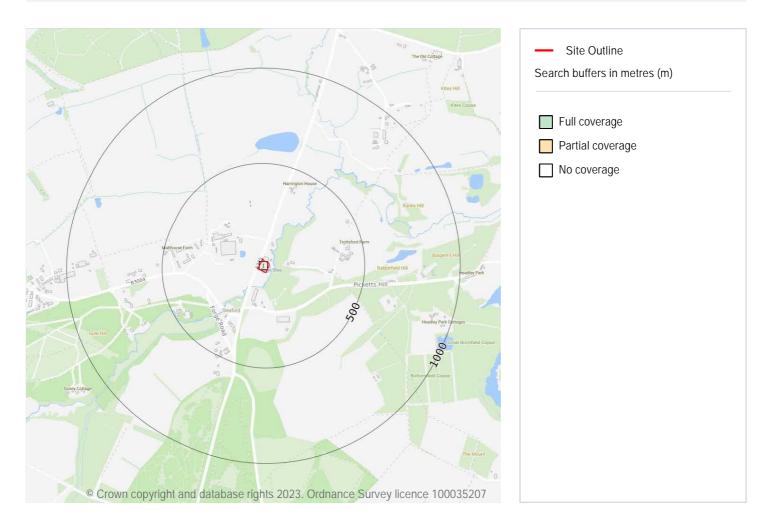






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# 14 Geology 1:10,000 scale - Availability



### 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 89 >

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

This data is sourced from the British Geological Survey.







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# 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.







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# Geology 1:10,000 scale - Superficial

### 14.3 Superficial geology (10k)

#### Records within 500m

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

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.







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# Geology 1:10,000 scale - Bedrock

### 14.5 Bedrock geology (10k)

Records within 500m

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

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.

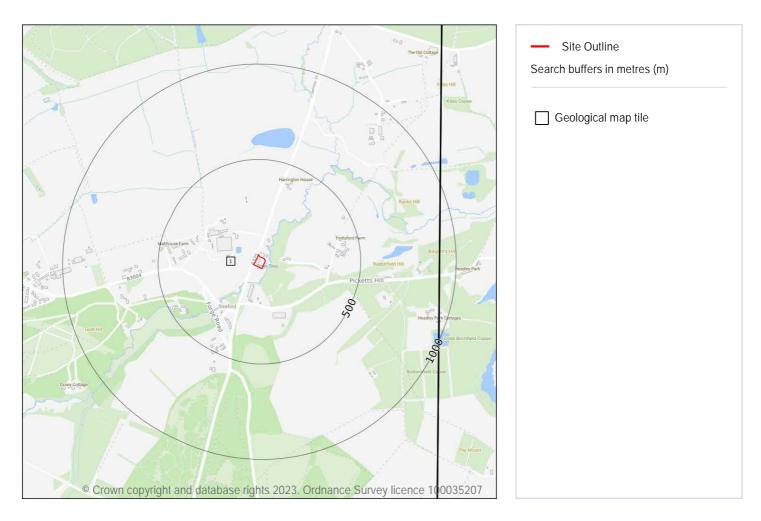






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# 15 Geology 1:50,000 scale - Availability



### 15.1 50k Availability

#### Records within 500m

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 93 >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW300_alresford_v4

This data is sourced from the British Geological Survey.







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



### 15.2 Artificial and made ground (50k)

#### Records within 500m

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

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on page 94 >

ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	53m SE	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID
3	86m S	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
4	286m W	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT







ID	Location	LEX Code	Description	Rock description
5	352m E	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID

This data is sourced from the British Geological Survey.

### 15.3 Artificial ground permeability (50k)

## Records within 50m 1

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

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







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# Geology 1:50,000 scale - Superficial



### 15.4 Superficial geology (50k)

#### Records within 500m

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 96 >

ID	Location	LEX Code	Description	Rock description
1	On site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
2	108m SW	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
3	359m SW	HEAD- XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL







ID	Location	LEX Code	Description	Rock description
4	487m NW	HEAD- XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL

This data is sourced from the British Geological Survey.

### 15.5 Superficial 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 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

This data is sourced from the British Geological Survey.

### 15.6 Landslip (50k)

Records within 500m	0
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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

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

This data is sourced from the British Geological Survey.

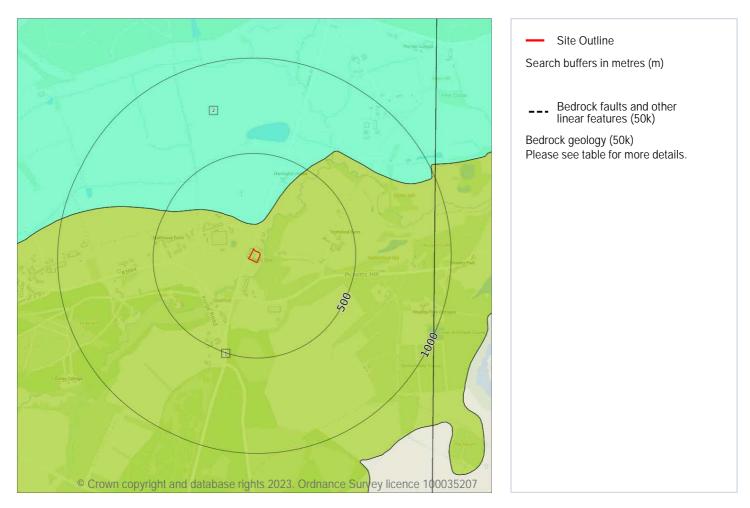






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# Geology 1:50,000 scale - Bedrock



### 15.8 Bedrock geology (50k)

#### Records within 500m

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 98 >

ID	Location	LEX Code	Description	Rock age
1	On site	FO-SDST	FOLKESTONE FORMATION - SANDSTONE	APTIAN
2	129m N	GLT-MDST	GAULT FORMATION - MUDSTONE	ALBIAN

This data is sourced from the British Geological Survey.







### 15.9 Bedrock permeability (50k)

Records within 50m	1

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

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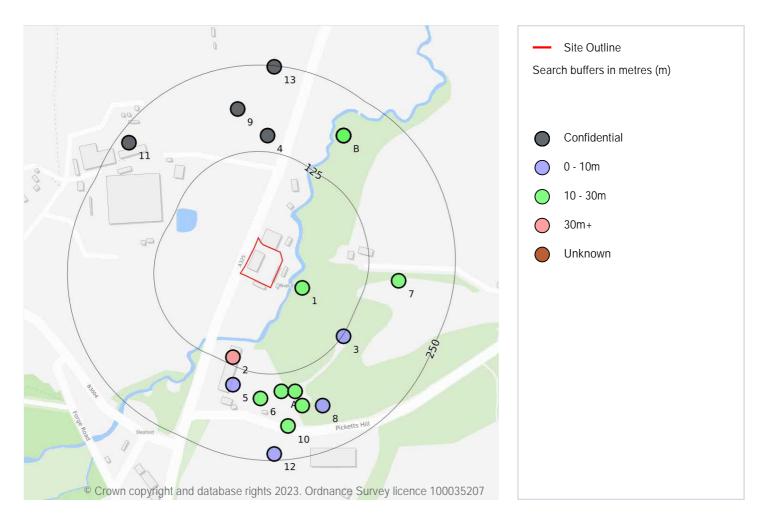
Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.







# 16 Boreholes



### 16.1 BGS Boreholes

#### Records within 250m

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 100 >

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	42m SE	480440 138480	HEADLEY PARK 11	17.0	Ν	<u>430590</u> 7
2	114m S	480340 138380	HEADLEY PARK 101	73.0	Ν	<u>430587</u> 7
3	127m SE	480500 138410	MELLOW FM HEADLEY 32	9.14	Ν	<u>430628</u> 7







ID	Location	Grid reference	Name	Length	Confidential	Web link
4	148m N	480390 138700	BORDON MALTHOUSE FARM 6	-	Y	N/A
5	151m S	480340 138340	HEADLEY PARK 12	9.6	Ν	<u>430591</u> /
А	151m S	480410 138330	SLEAFORD SAND PIT FARNHAM BH2	15.24	Ν	<u>430637</u> 7
А	154m S	480430 138330	SLEAFORD SAND PIT FARNHAM BH3	15.24	Ν	<u>430638</u> ↗
6	161m S	480380 138320	SLEAFORD SAND PIT FARNHAM BH1	15.24	Ν	<u>430636</u> 7
7	171m E	480580 138490	MELLOW FM HEADLEY 31	12.19	Ν	<u>430627</u> /
А	176m S	480440 138310	SLEAFORD SAND PIT FARNHAM BH4	15.24	Ν	<u>430639</u> /
8	186m SE	480470 138310	MELLOW FM HEADLEY 33	7.62	Ν	<u>430629</u> /
9	189m N	480347 138739	MALTHOUSE FARM NEAR KINGSLEY 20	-	Y	N/A
В	192m NE	480500 138700	BORDON 8,9,10,11,12,13,14	-	Y	N/A
В	192m NE	480500 138700	BORDON 9	28.19	Ν	<u>430549</u> 7
В	192m NE	480500 138700	BORDON 11	28.19	Ν	<u>430551</u> 7
В	192m NE	480500 138700	BORDON 12	28.04	Ν	<u>430552</u> ↗
В	192m NE	480500 138700	BORDON 13	28.19	Ν	<u>430553</u> 7
В	192m NE	480500 138700	BORDON 10	28.04	Ν	<u>430550</u> 7
В	192m NE	480500 138700	BORDON 8	28.19	Ν	<u>430548</u> 7
В	192m NE	480500 138700	BORDON 14	28.19	Ν	<u>430554</u> 7
10	202m S	480420 138280	HEADLEY PARK LANDFILL	19.0	Ν	<u>430665</u> ↗
11	232m NW	480190 138690	BORDON MALTHOUSE FARM 3	-	Y	N/A
12	240m S	480400 138240	MELLOW FM HEADLEY 12	6.1	Ν	<u>430611</u> /
13	249m N	480400 138800	BORDON MALTHOUSE FARM 5	-	Y	N/A

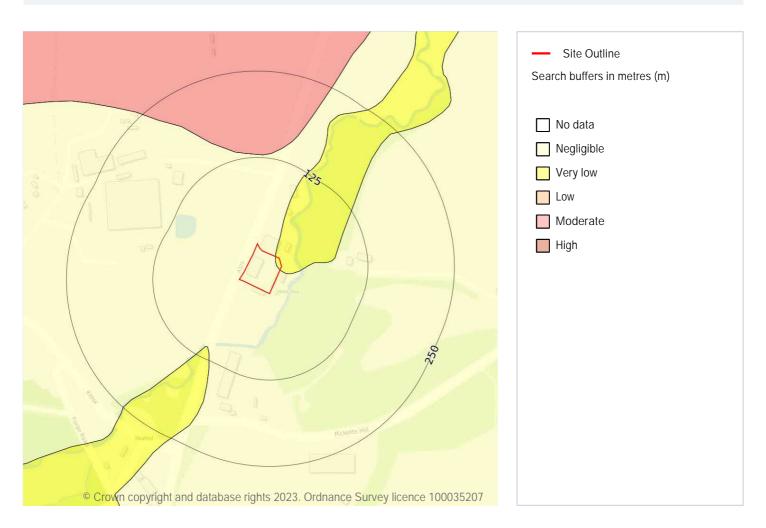






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# 17 Natural ground subsidence - Shrink swell clays



### 17.1 Shrink swell clays

#### Records within 50m

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 102 >

Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.
On site	Very low	Ground conditions predominantly low plasticity.

This data is sourced from the British Geological Survey.

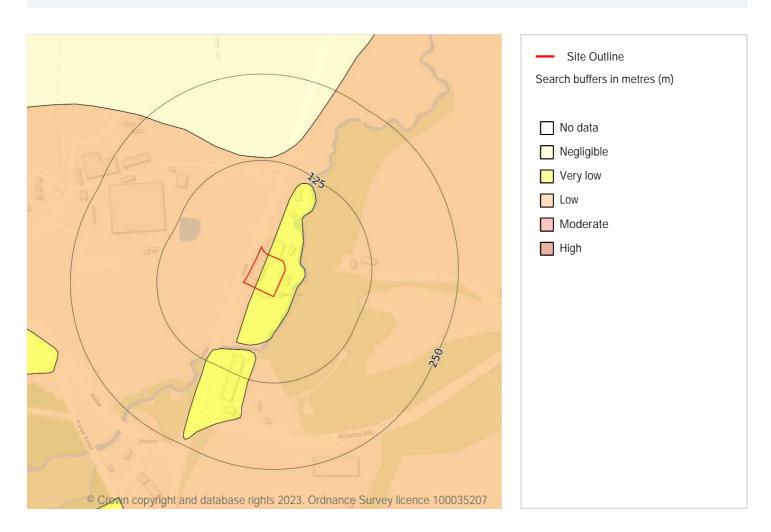






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# Natural ground subsidence - Running sands



### 17.2 Running sands

#### Records within 50m

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 103 >

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







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







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# Natural ground subsidence - Compressible deposits



### 17.3 Compressible deposits

#### Records within 50m

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 105 >

Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.
On site	Very low	Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses.







Location	Hazard rating	Details
23m E	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.

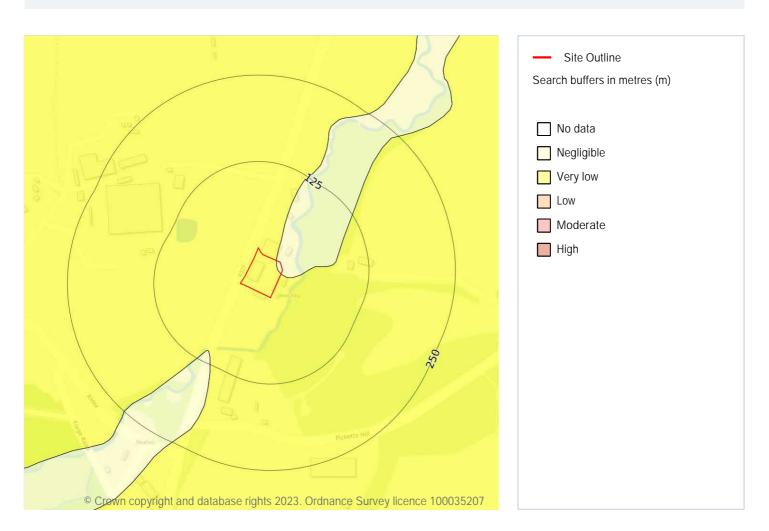






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# Natural ground subsidence - Collapsible deposits



### 17.4 Collapsible deposits

#### Records within 50m

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 107 >

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

This data is sourced from the British Geological Survey.







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# Natural ground subsidence - Landslides



### 17.5 Landslides

#### Records within 50m

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 108 >

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

This data is sourced from the British Geological Survey.







# Natural ground subsidence - Ground dissolution of soluble rocks



### 17.6 Ground dissolution of soluble rocks

#### Records within 50m

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 109 >

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.







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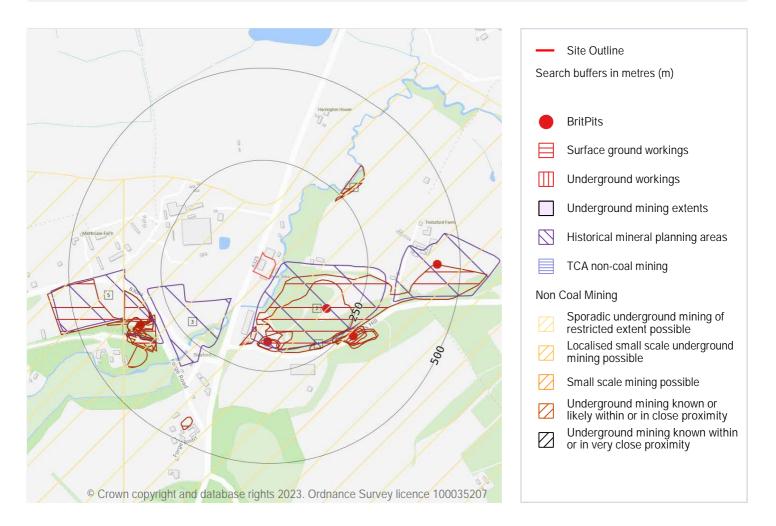






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# 18 Mining and ground workings



### 18.1 BritPits

#### Records within 500m

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

Features are displayed on the Mining and ground workings map on page 111 >







ID	Location	Details	Description
В	170m S	Name: Bordon Farm Sand Pit Address: Sleaford, BORDON, Hampshire Commodity: Sand Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
А	175m SE	Name: Trotsford Farm Sand Pit Address: Sleaford, BORDON, Hampshire Commodity: Sand Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
D	274m SE	Name: Headley Park Sand Pit Address: Sleaford, BORDON, Hampshire Commodity: Sand Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
E	338m SW	Name: Sleaford Sand Pit Address: Sleaford, BORDON, Hampshire Commodity: Sand Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
F	438m E	Name: Trottsford Farm Sand Pit Address: Sleaford, BORDON, Hampshire Commodity: Sand Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

### 18.2 Surface ground workings

Records within 250m

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

Features are displayed on the Mining and ground workings map on page 111 >







ID	Location	Land Use	Year of mapping	Mapping scale
2	44m SE	Sand Pit	1979	1:10000
А	81m S	Refuse Heap	1974	1:10000
В	134m S	Unspecified Pit	1956	1:10560
В	148m S	Sand Pit	1956	1:10560
В	164m S	Sand Pit	1910	1:10560
4	214m SE	Refuse Heap	1956	1:10560
С	230m NE	Unspecified Pit	1910	1:10560
D	235m SE	Sand Pit	1898	1:10560
D	243m SE	Sand Pit	1895	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

## 18.3 Underground workings

### Records within 1000m

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

This is data is sourced from Ordnance Survey/Groundsure.

## 18.4 Underground mining extents

### Records within 500m

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

This data is sourced from Groundsure.

## 18.5 Historical Mineral Planning Areas

### Records within 500m

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

Features are displayed on the Mining and ground workings map on page 111 >





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ID	Location	Site Name	Mineral	Туре	Planning Status	Planning Status Date
А	9m SE	Sleaford	Sand and gravel	Surface mineral working	Valid	Not available
3	95m SW	Sleaford	Sand and gravel	Surface mineral working	Valid	Not available
5	300m SW	Malthouse Farm	Sand and gravel	Surface mineral working	Valid	Not available
F	330m E	Sleaford	Sand and gravel	Surface mineral working	Valid	Not available

This data is sourced from the British Geological Survey.

## 18.6 Non-coal mining

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

Features are displayed on the Mining and ground workings map on page 111 >

ID	Location	Name	Commodity	Class	Likelihood
1	On site	Not available	Sand	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
6	351m W	Not available	Sand	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.

This data is sourced from the British Geological Survey.

## 18.7 JPB mining areas

Records on site

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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.







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### 18.8 The Coal Authority non-coal mining

### Records within 500m

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

This data is sourced from The Coal Authority.

### 18.9 Researched mining

Records within 500m

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

This data is sourced from Groundsure.

### 18.10 Mining record office plans

#### Records within 500m

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

This data is sourced from Groundsure.

### 18.11 BGS mine plans

#### Records within 500m

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

This data is sourced from Groundsure.





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### 18.12 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.

### 18.13 Brine areas

Records on site

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

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

### 18.14 Gypsum areas

Records on site

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

### 18.15 Tin mining

## Records on site

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

## 18.16 Clay mining

Records on site	0
Generalised areas that may be affected by kaolin and ball clay extraction.	

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





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## 19 Ground cavities and sinkholes

### **19.1 Natural cavities**

### Records within 500m

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

This data is sourced from Stantec UK Ltd.

### 19.2 Mining cavities

### Records within 1000m

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

This data is sourced from Stantec UK Ltd.

### 19.3 Reported recent incidents

### Records within 500m

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

This data is sourced from Groundsure.

## **19.4 Historical incidents**

### Records within 500m

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

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







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This data is sourced from Groundsure.

## 19.5 National karst database

### Records within 500m

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

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

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

This data is sourced from the British Geological Survey.

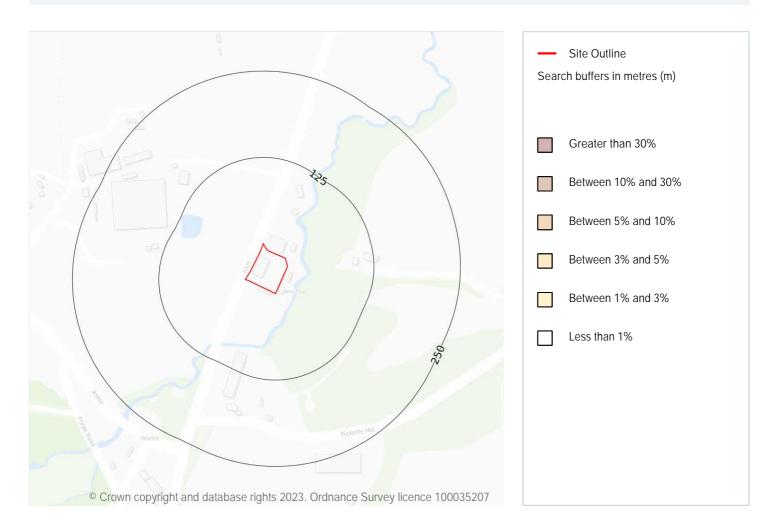






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## 20 Radon



## 20.1 Radon

### Records on site

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

Features are displayed on the Radon map on page 119 >

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





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







## 21 Soil chemistry

## 21.1 BGS Estimated Background Soil Chemistry

### Records within 50m

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

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

This data is sourced from the British Geological Survey.

## 21.2 BGS Estimated Urban Soil Chemistry

### Records within 50m

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

This data is sourced from the British Geological Survey.

## 21.3 BGS Measured Urban Soil Chemistry

### Records within 50m

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

This data is sourced from the British Geological Survey.



Contact us with any questions at: <u>info@groundsure.com</u> ∧ 01273 257 755



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## 22 Railway infrastructure and projects

## 22.1 Underground railways (London)

### Records within 250m

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

This data is sourced from publicly available information by Groundsure.

### 22.2 Underground railways (Non-London)

### Records within 250m

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

This data is sourced from publicly available information by Groundsure.

### 22.3 Railway tunnels

Records within 250m

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

## 22.4 Historical railway and tunnel features

### Records within 250m

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

This data is sourced from Ordnance Survey/Groundsure.

## 22.5 Royal Mail tunnels

### Records within 250m

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.





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This data is sourced from Groundsure/the Postal Museum.

## 22.6 Historical railways

### Records within 250m

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

This data is sourced from OpenStreetMap.

## 22.7 Railways

Records within 250m

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways. This data is sourced from Ordnance Survey and OpenStreetMap.

### 22.8 Crossrail 1

### Records within 500m

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

This data is sourced from publicly available information by Groundsure.

## 22.9 Crossrail 2

### Records within 500m

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

This data is sourced from publicly available information by Groundsure.

### 22.10 HS2

### Records within 500m

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 <u>https://www.groundsure.com/sources-reference</u>  $\nearrow$ .

## Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: <a href="http://www.groundsure.com/terms-and-conditions-april-2023/">www.groundsure.com/terms-and-conditions-april-2023/</a> .







# **Appendix D** Historical Maps

## **Phase One Environmental Site Assessment**

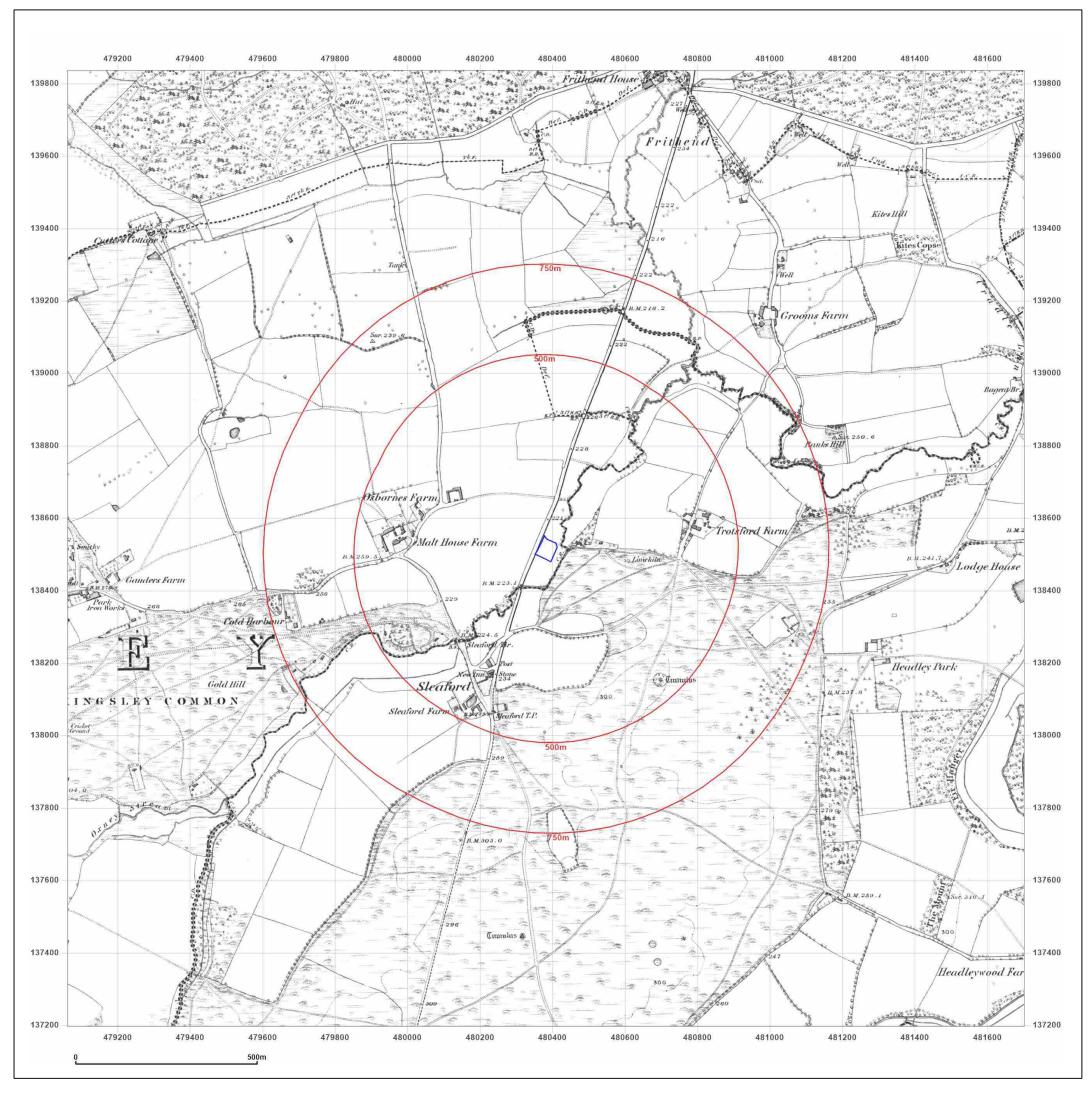
FS429 – Sleaford Service Station

**Motor Fuel Group Limited** 

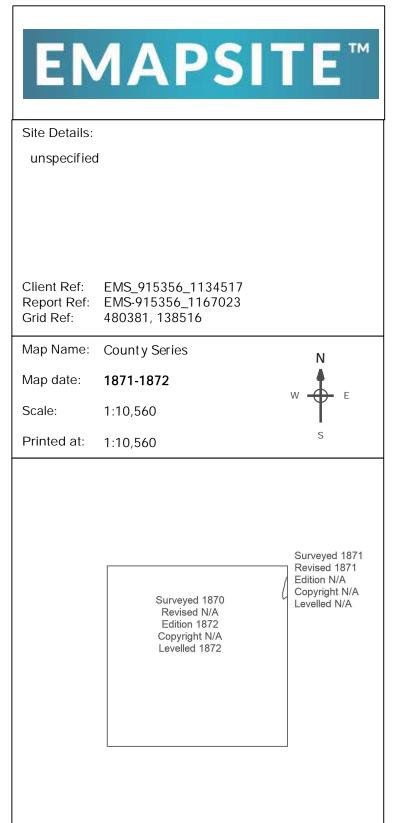
SLR Project No.:427.000050.00001

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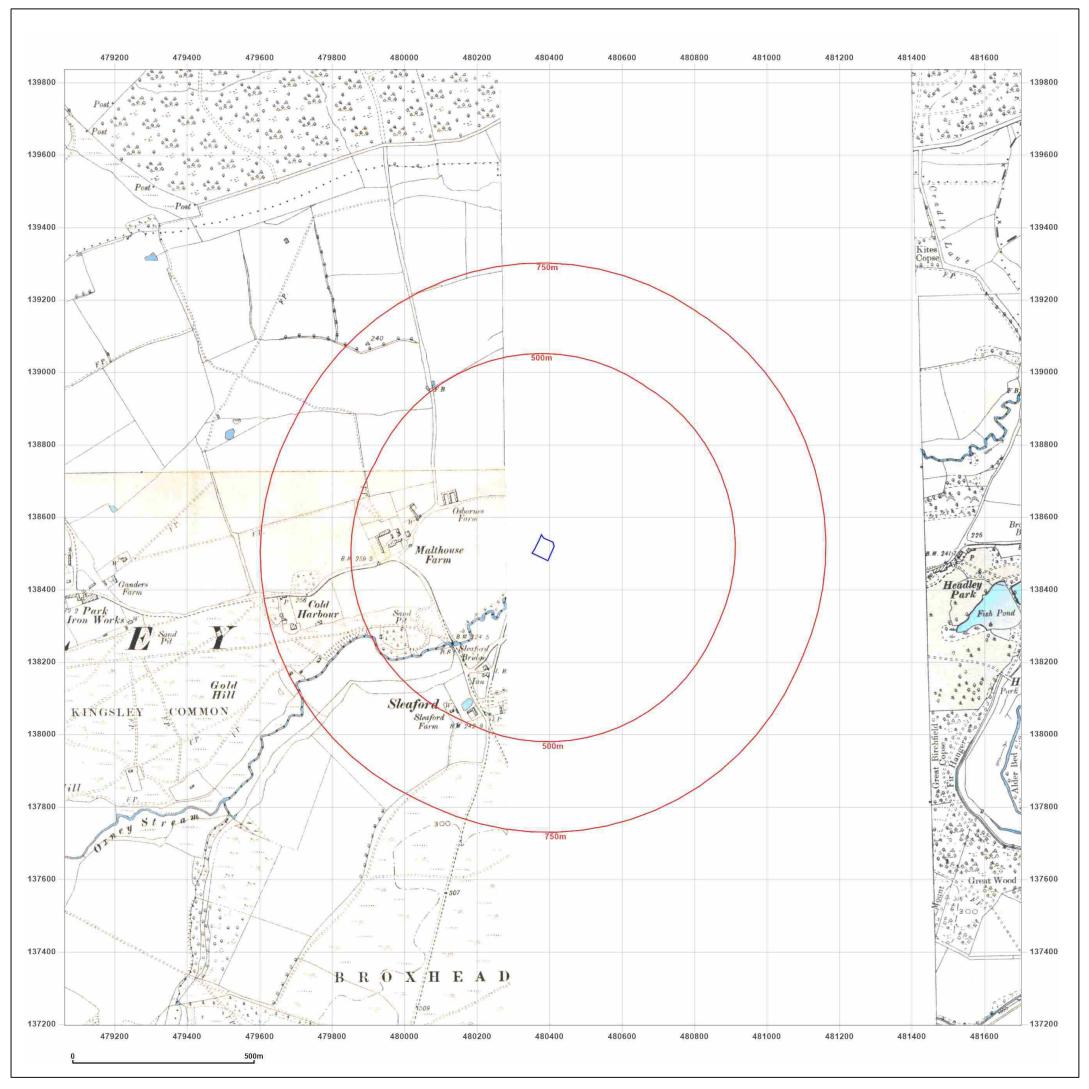


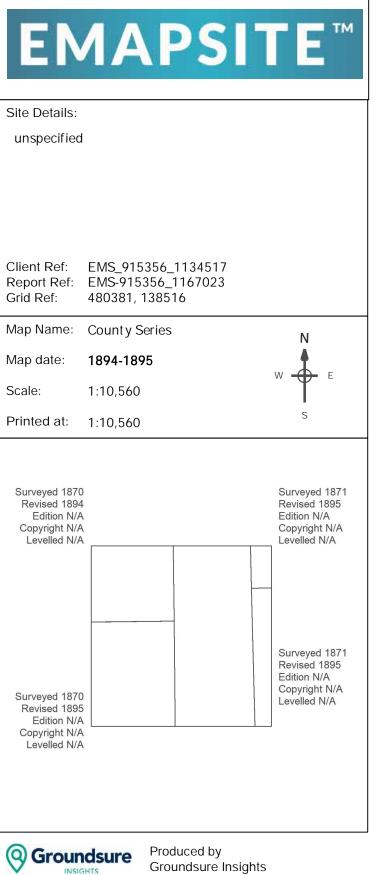


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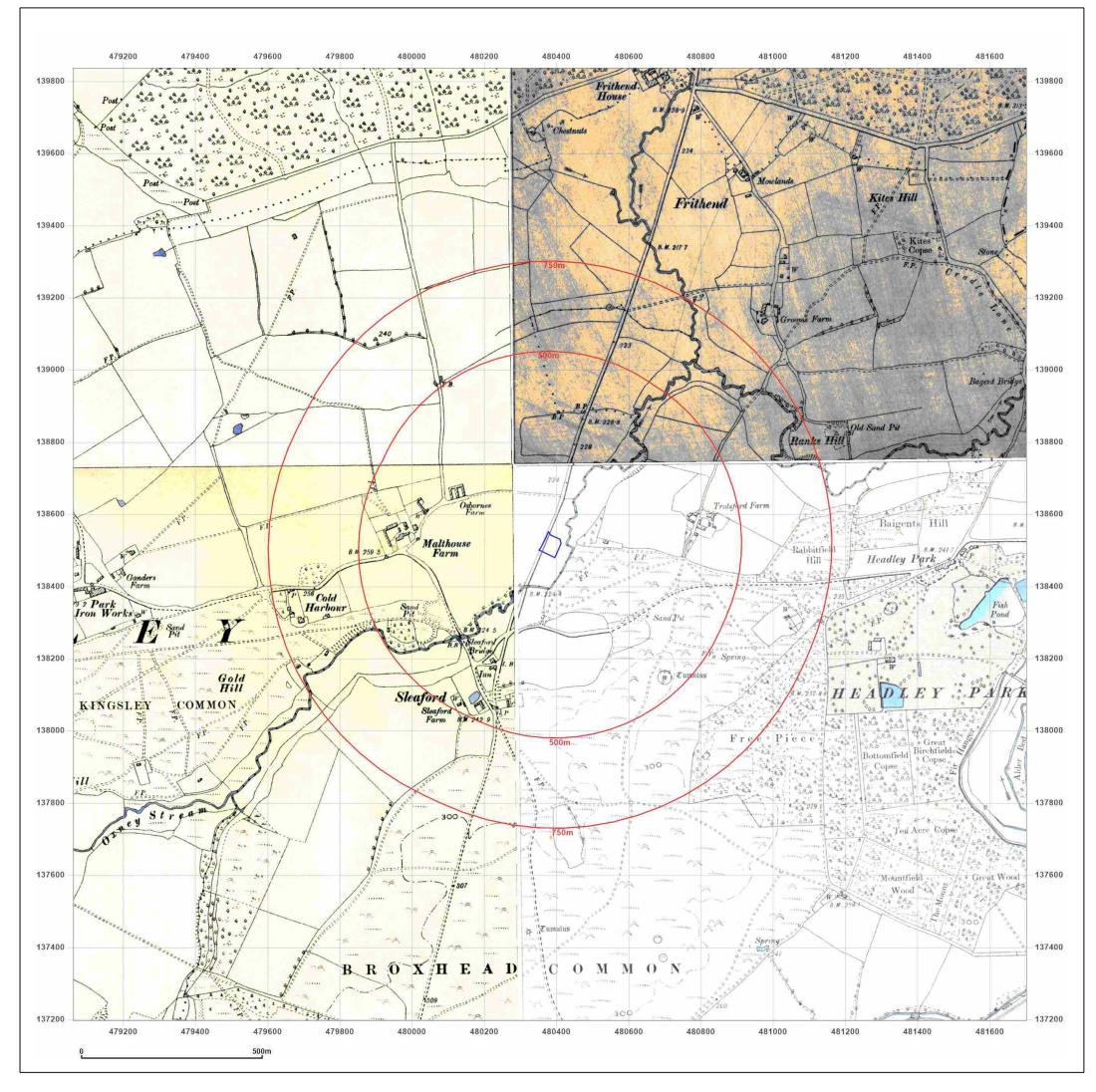


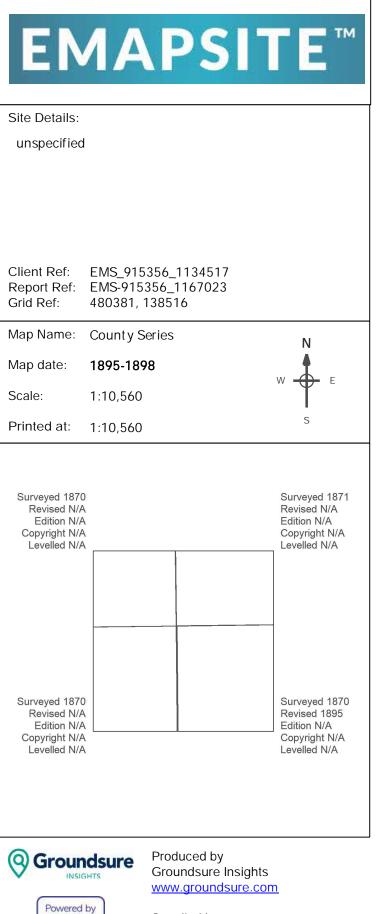


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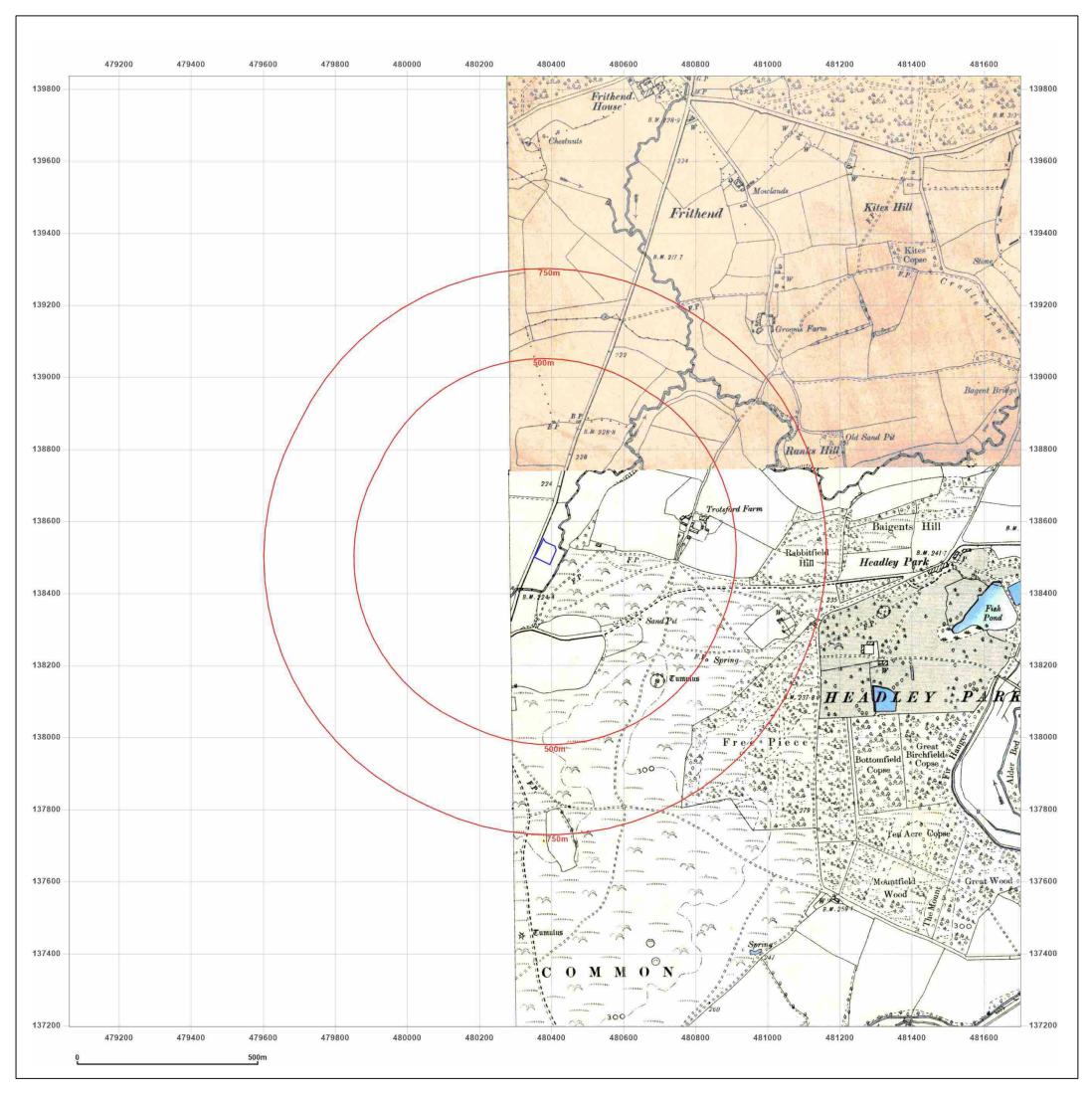


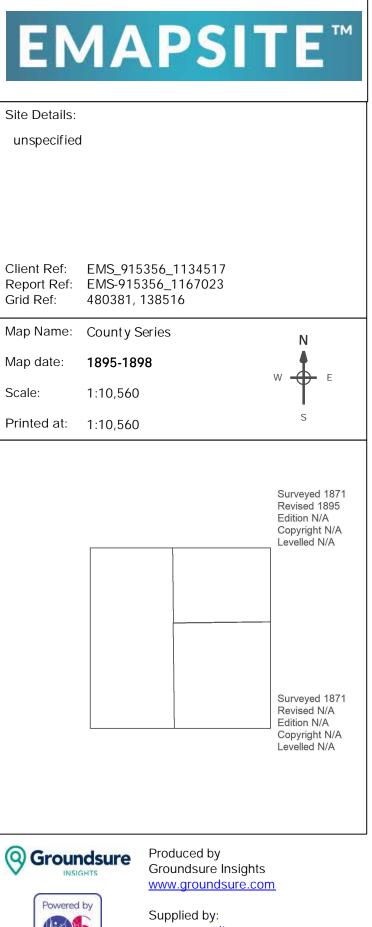


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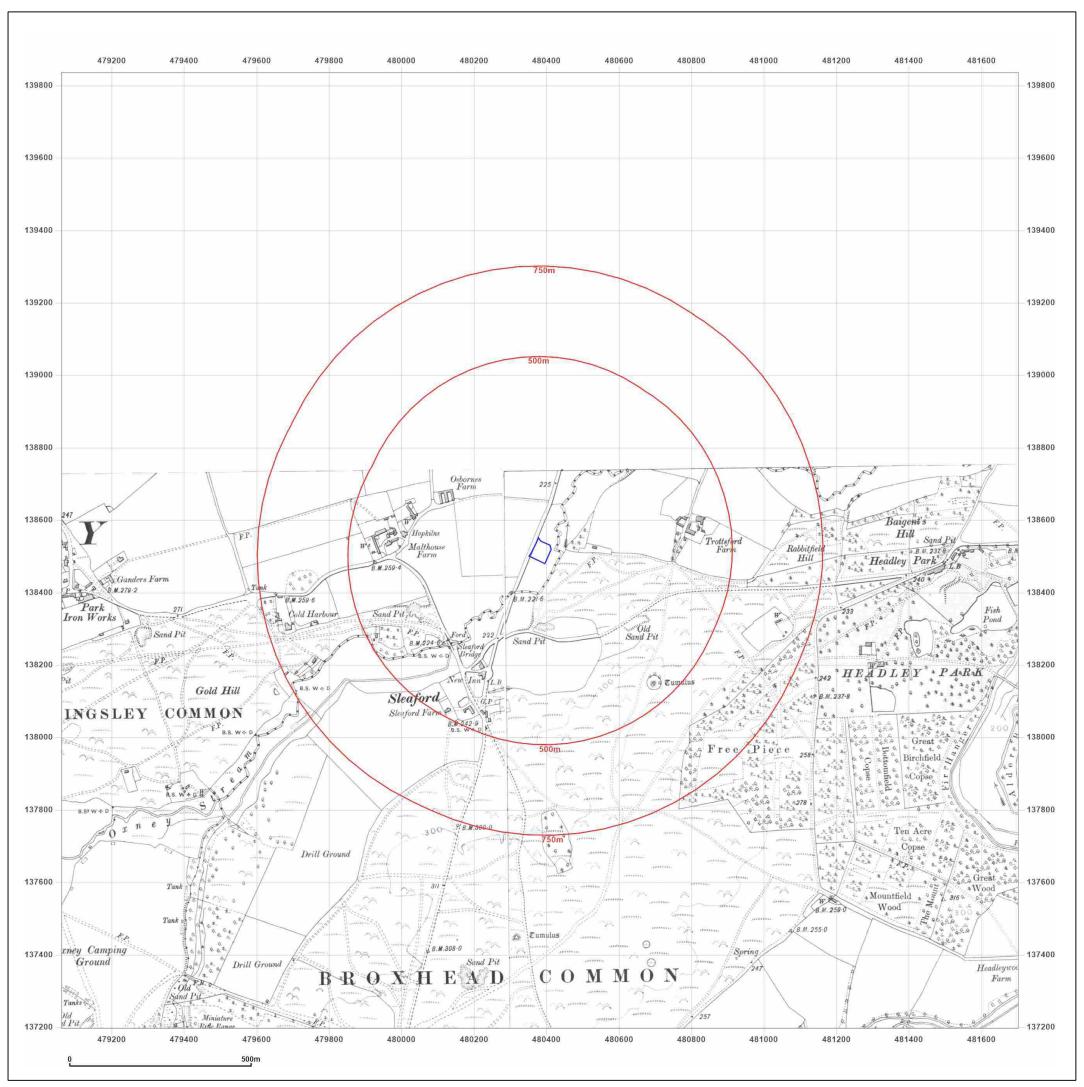
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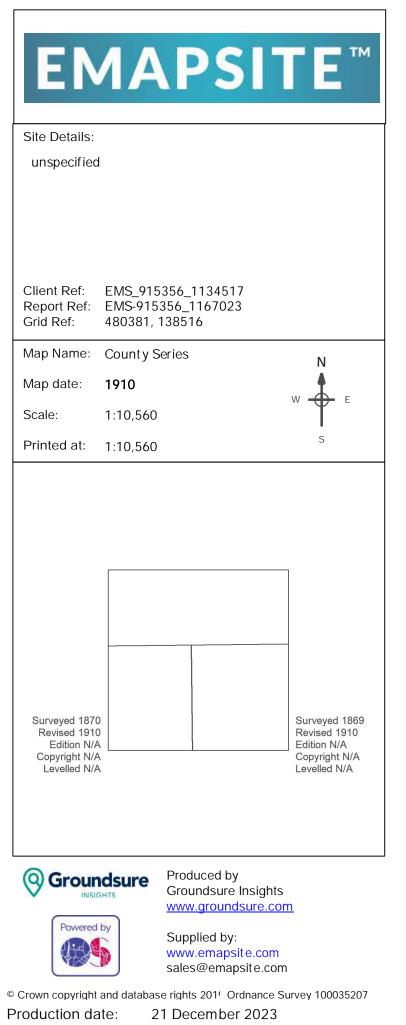
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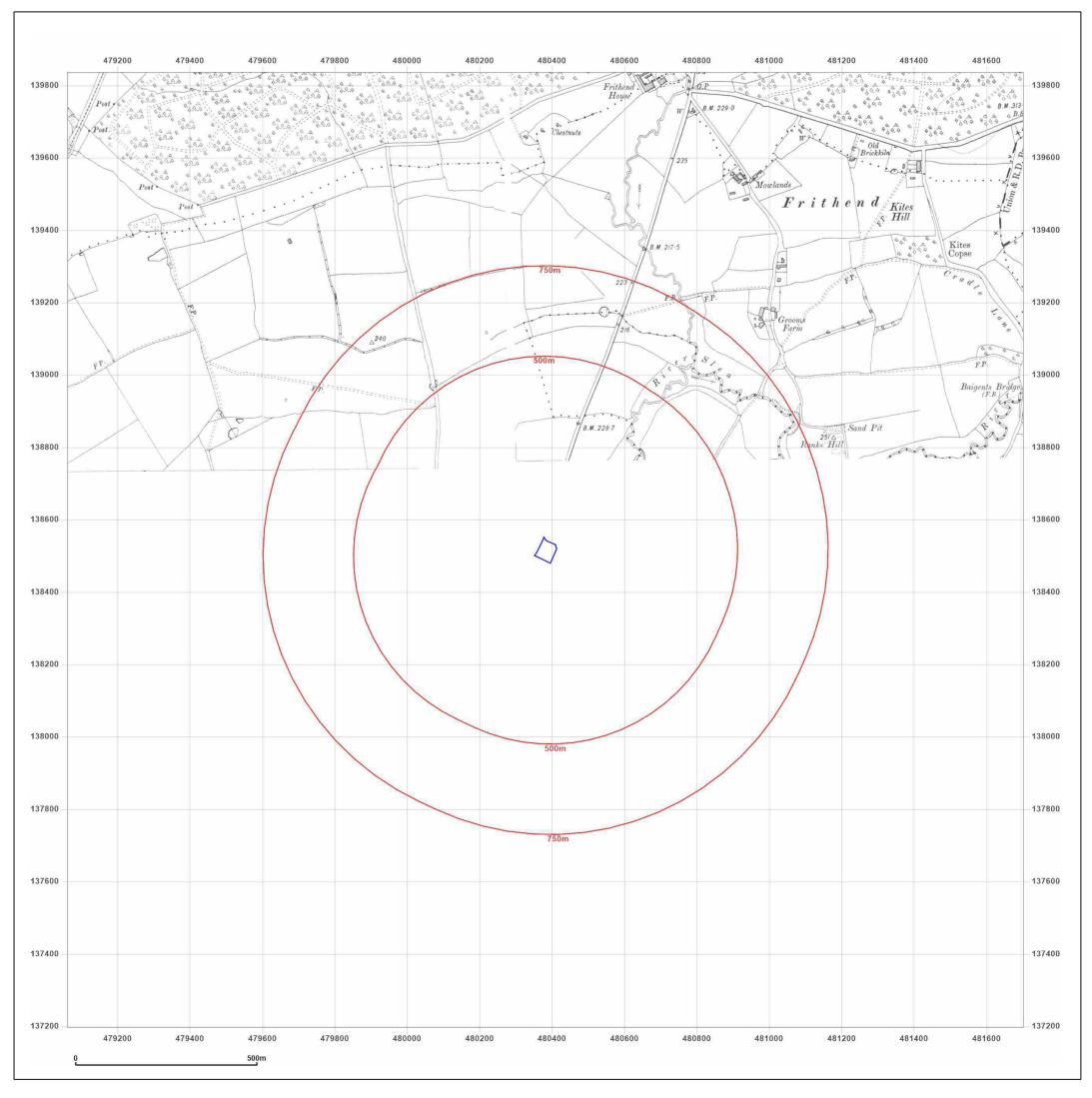


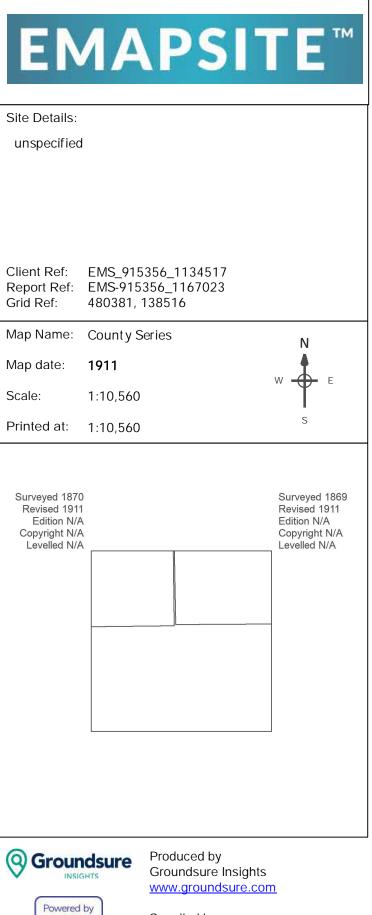


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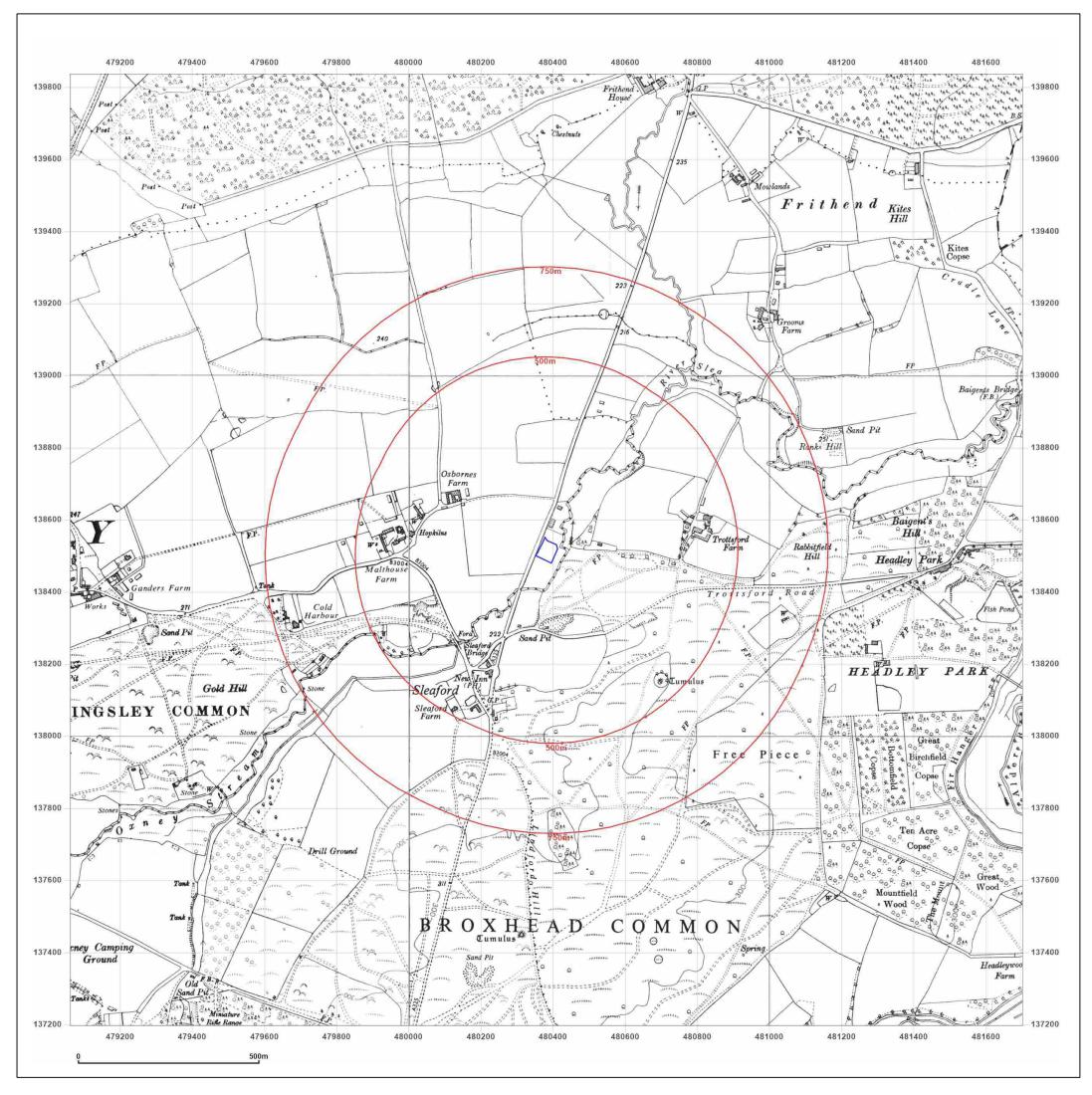


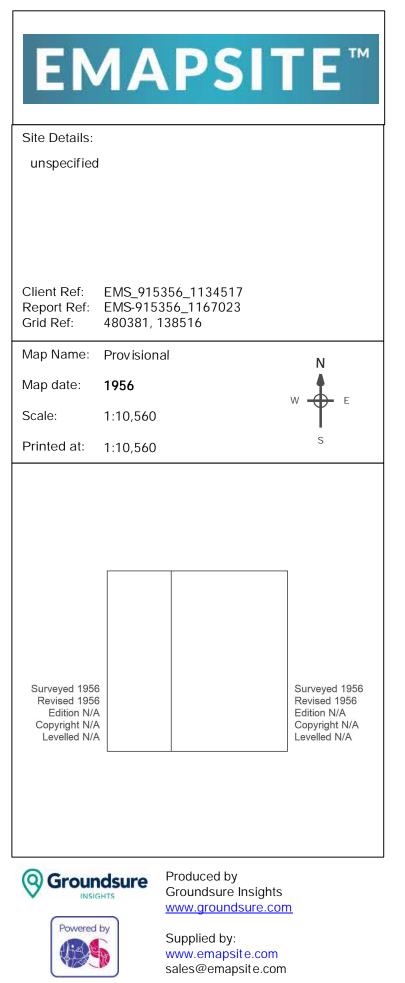


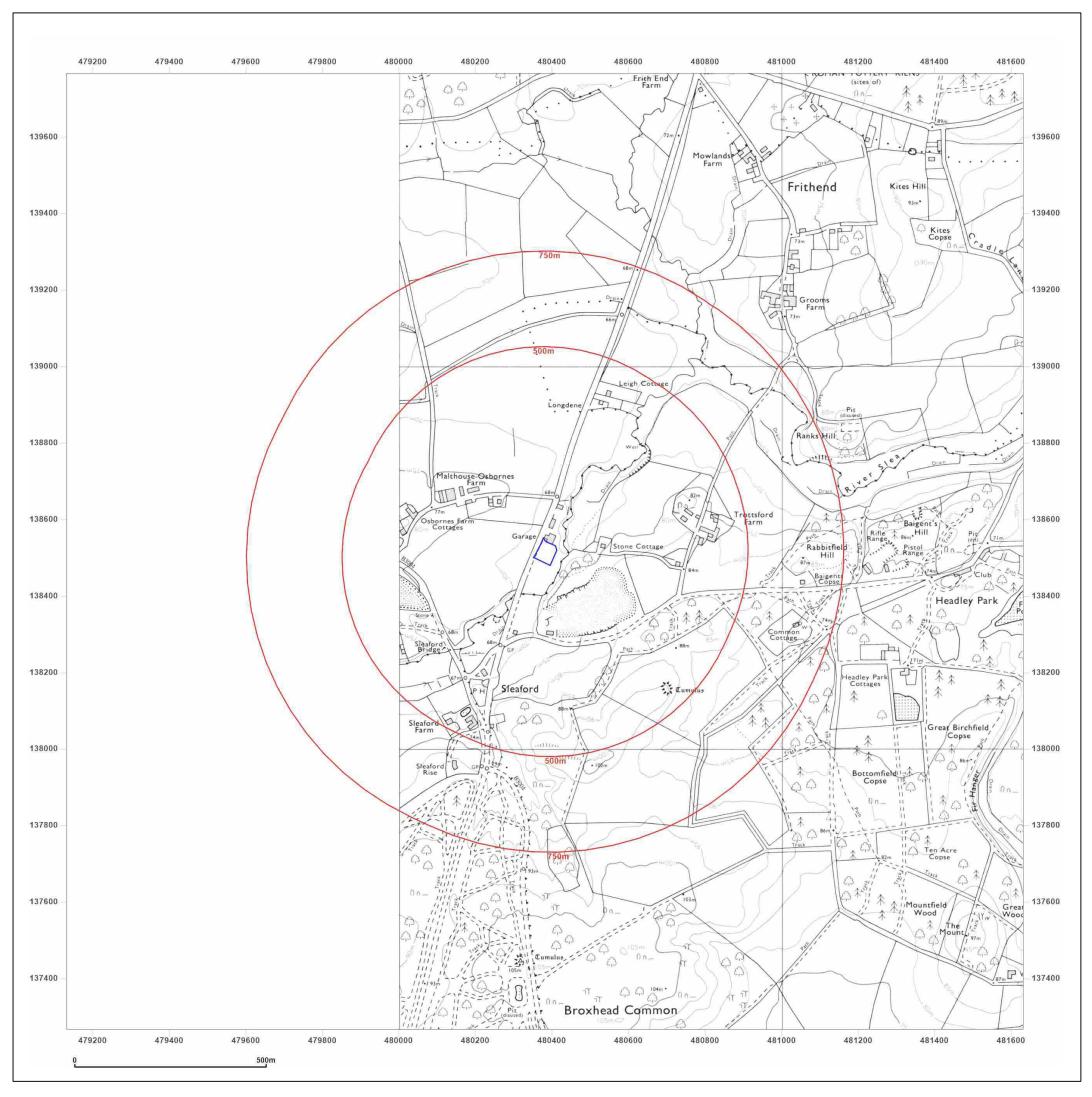


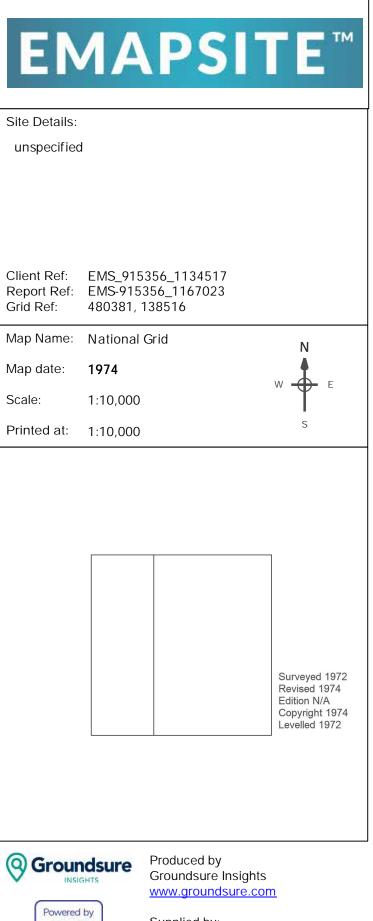


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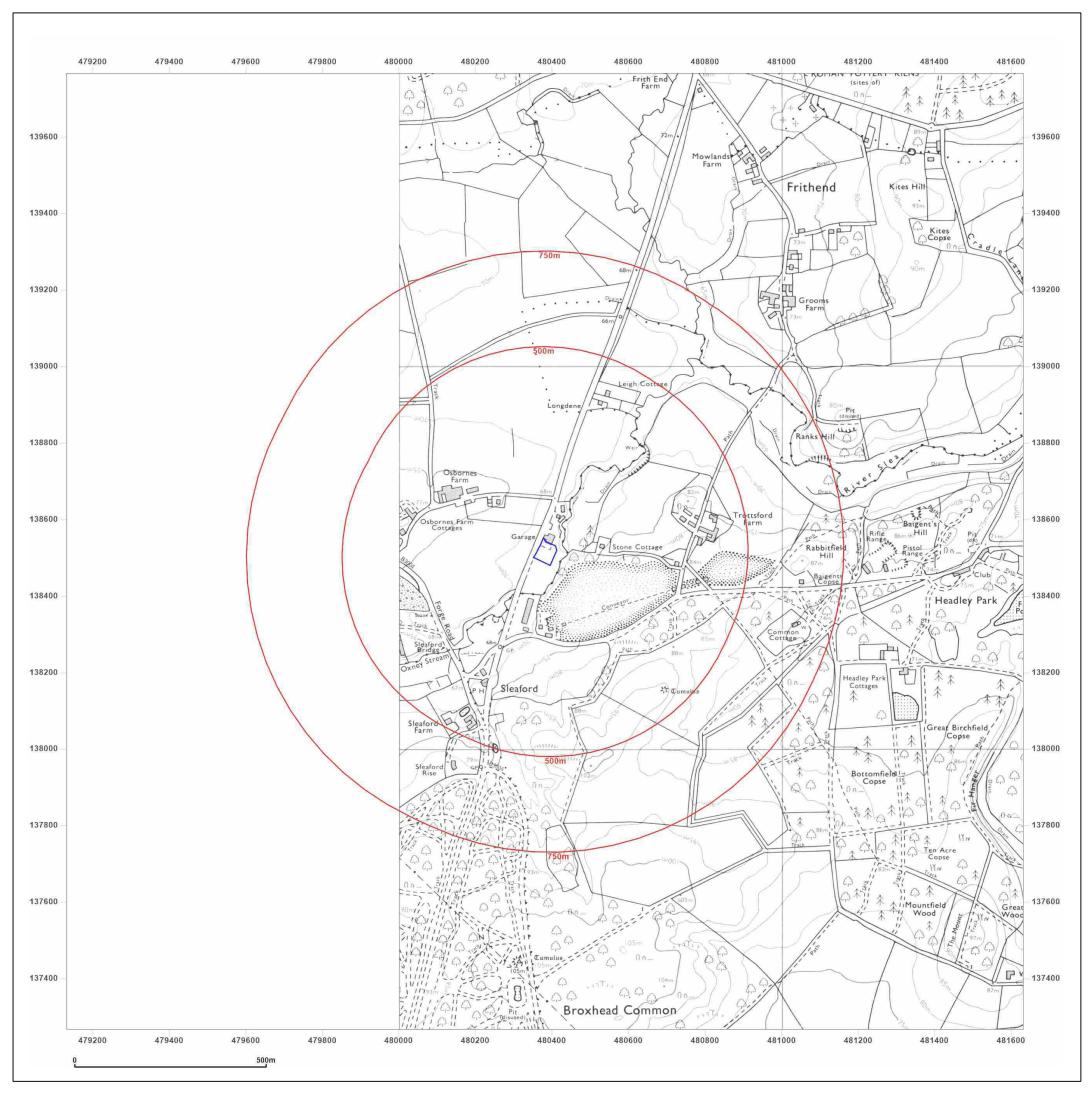


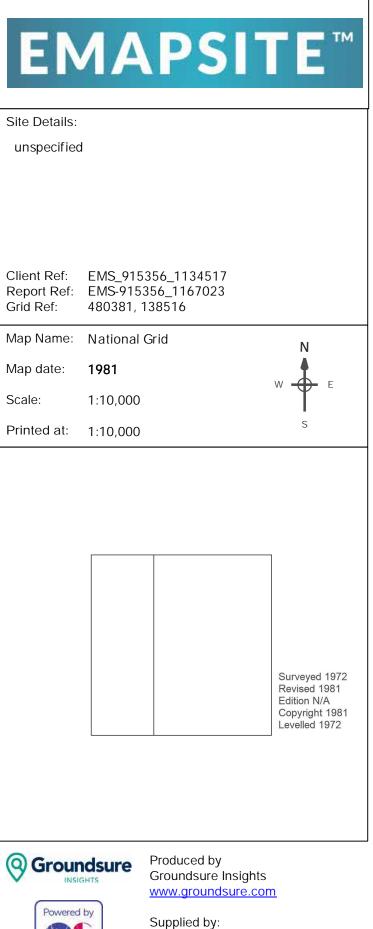




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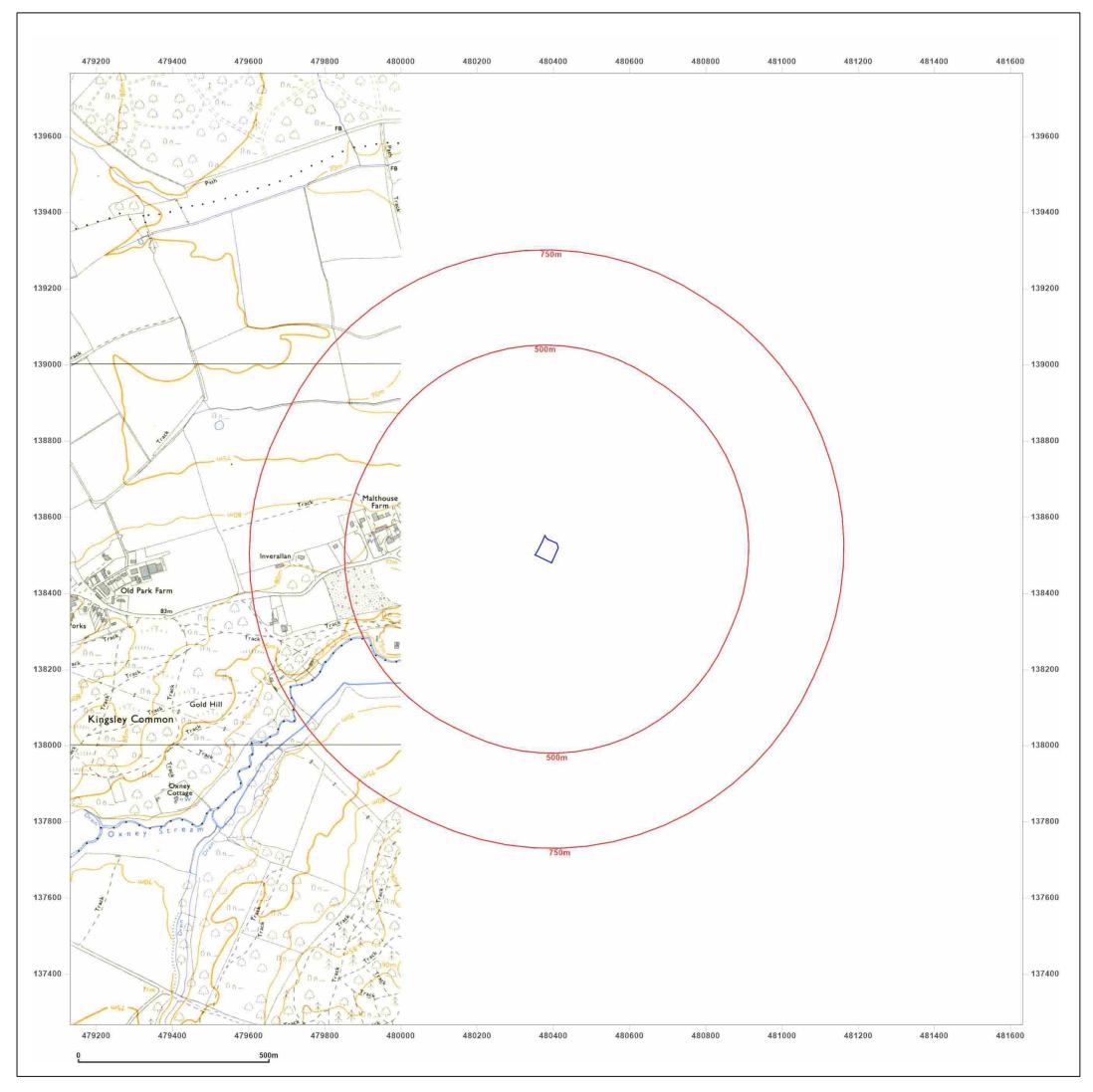
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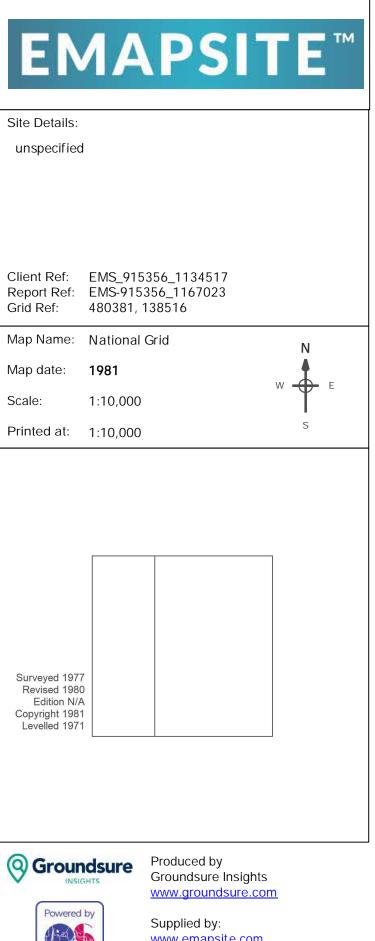




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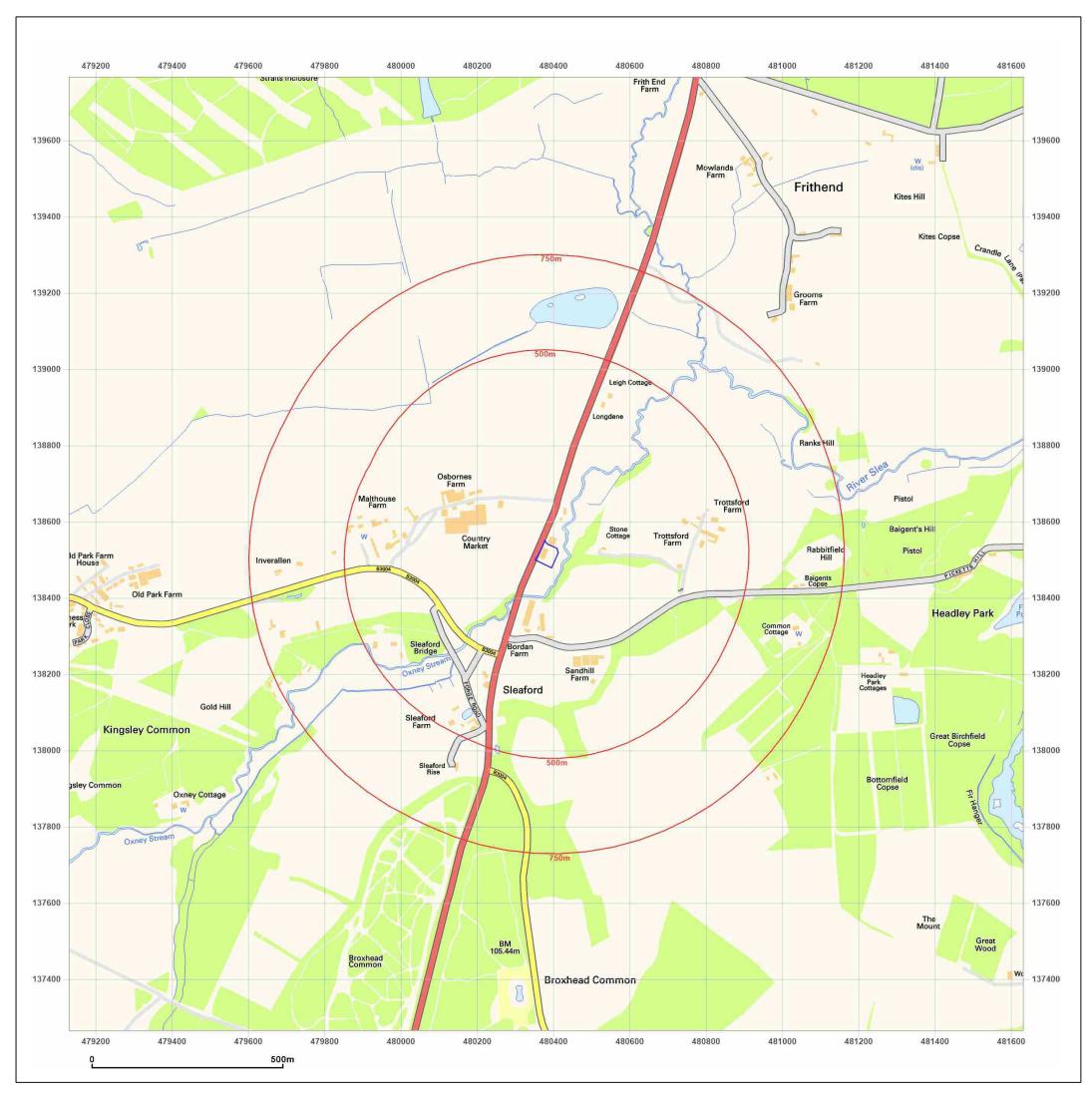
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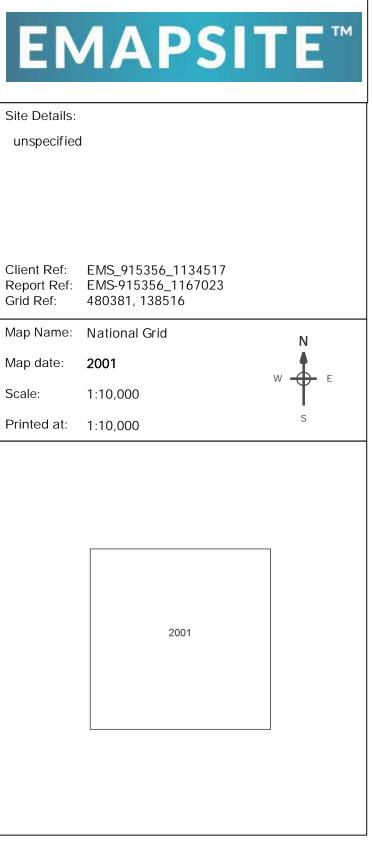




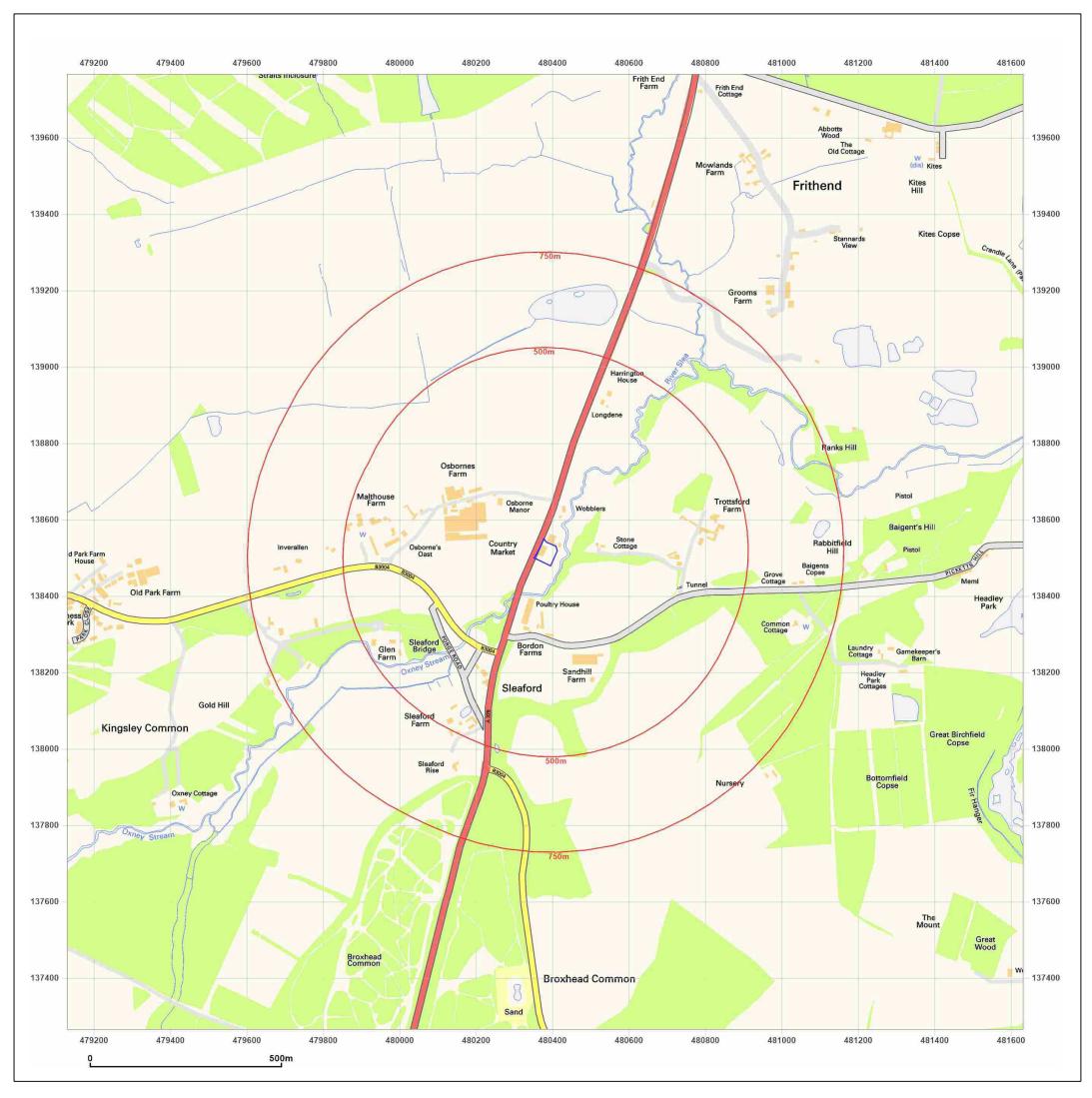
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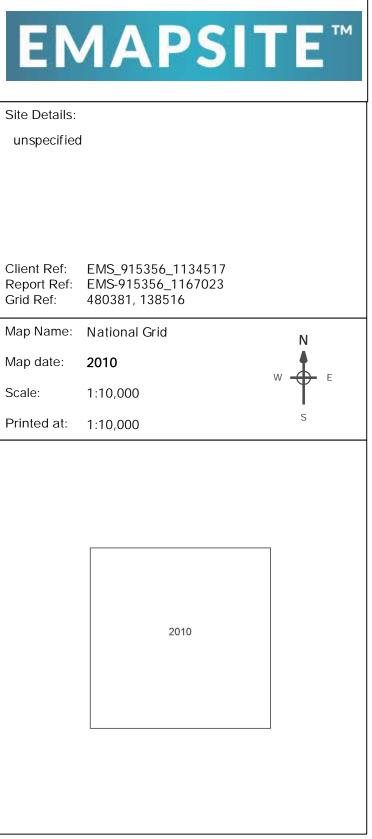
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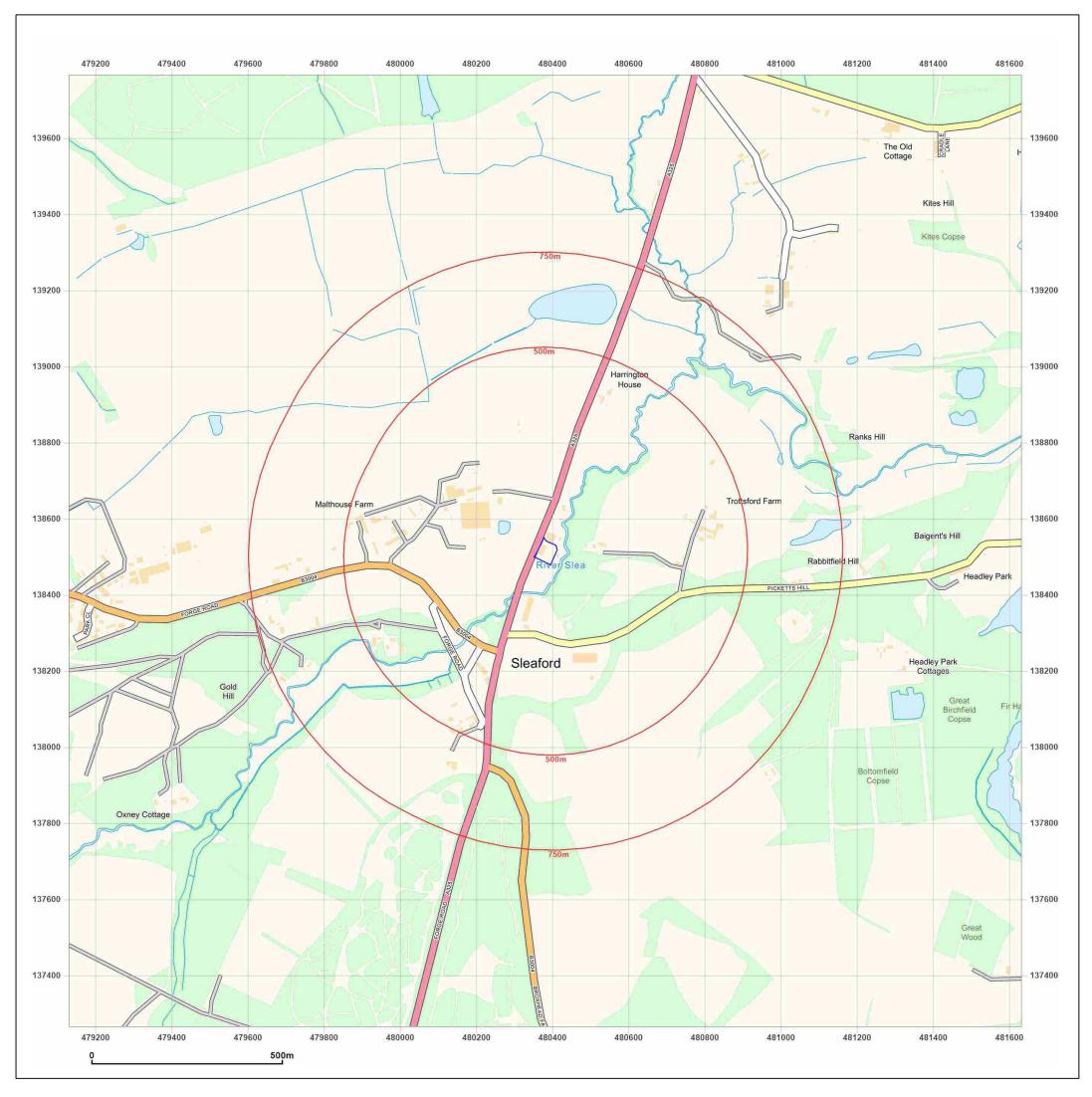


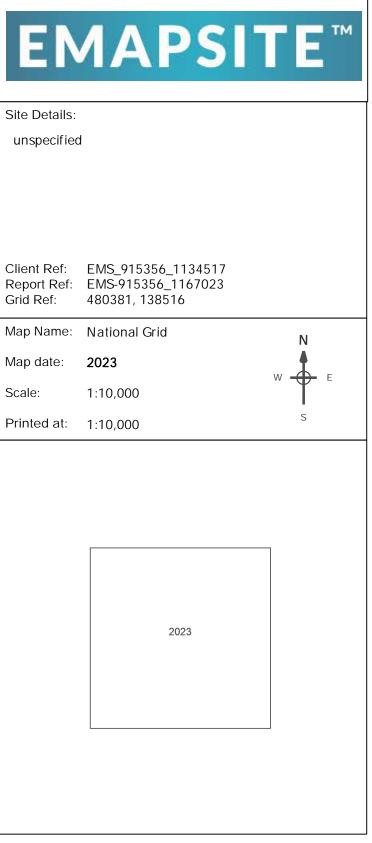




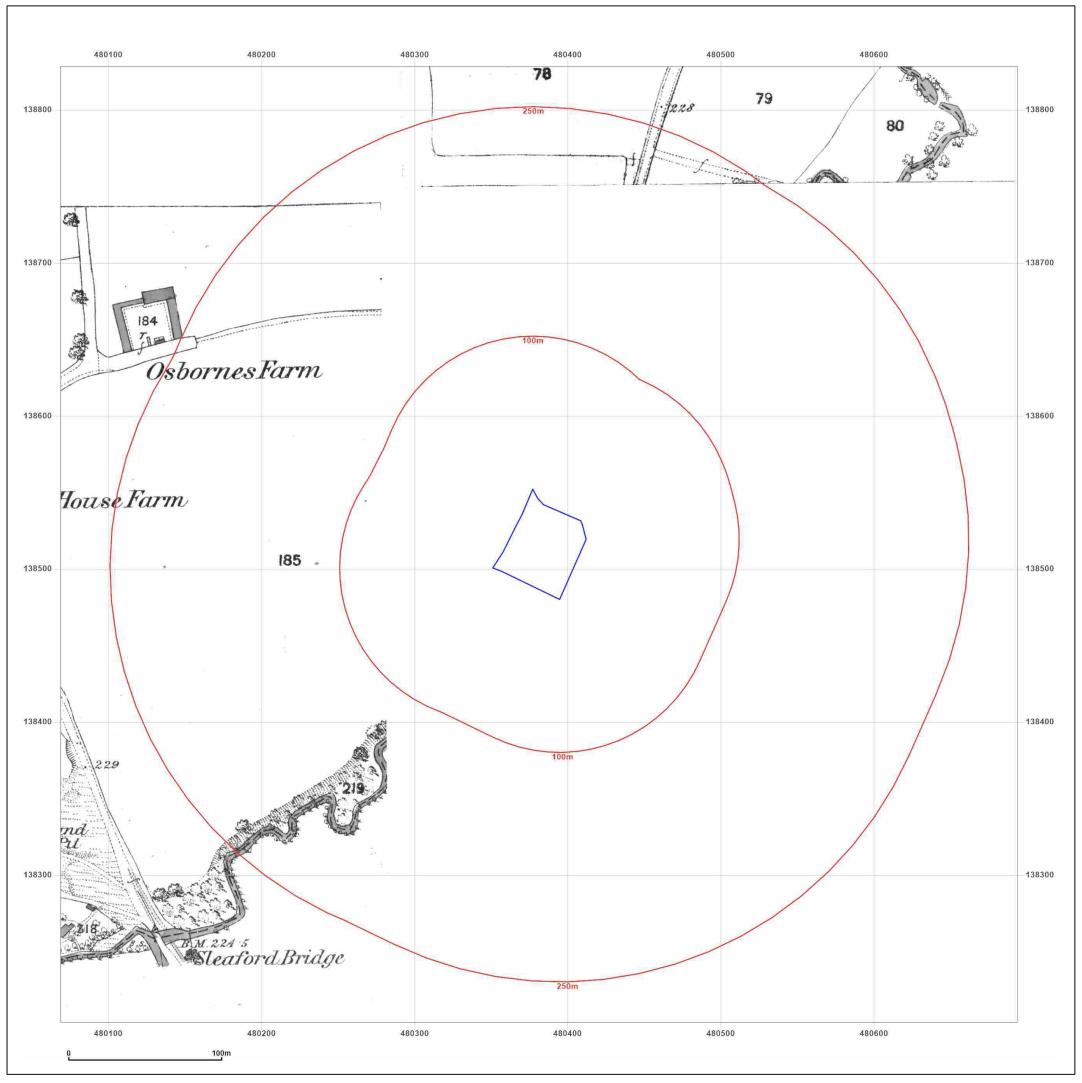


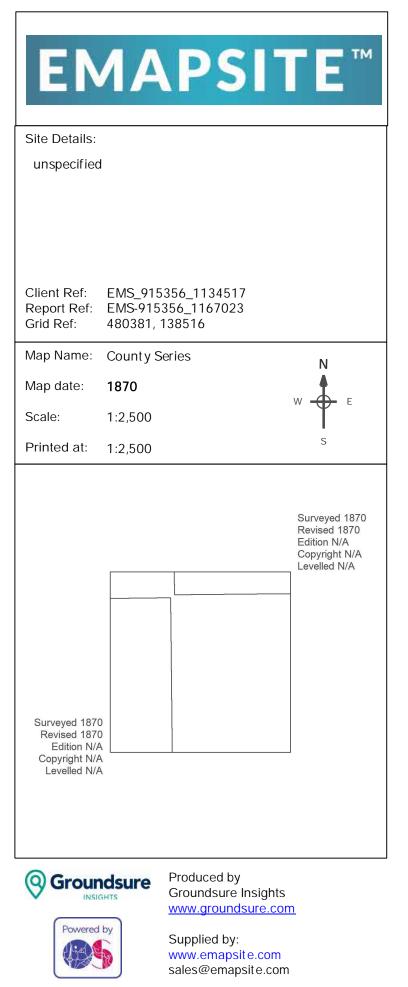


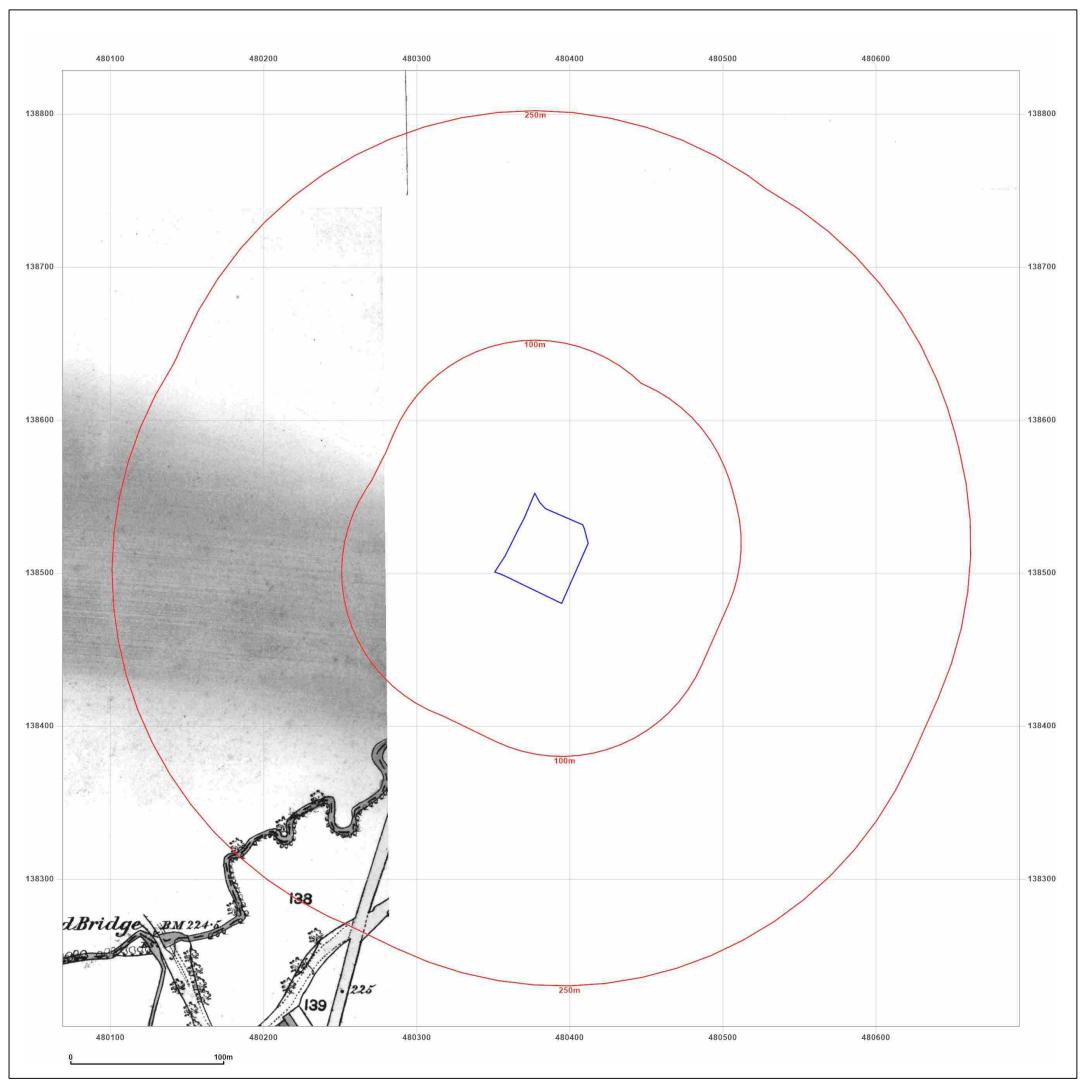


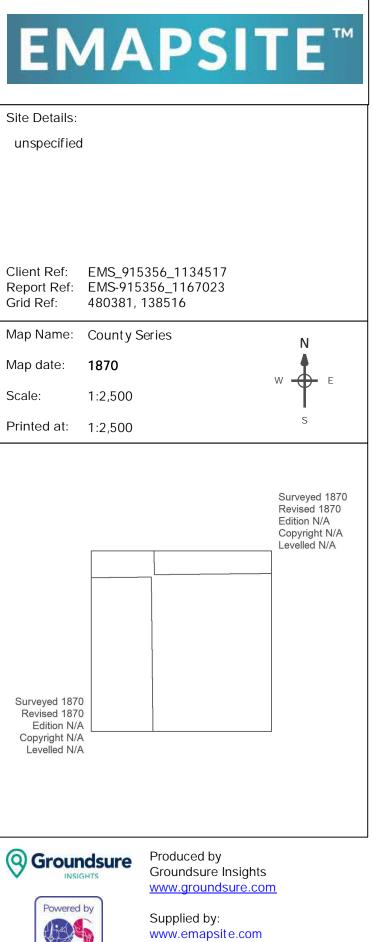






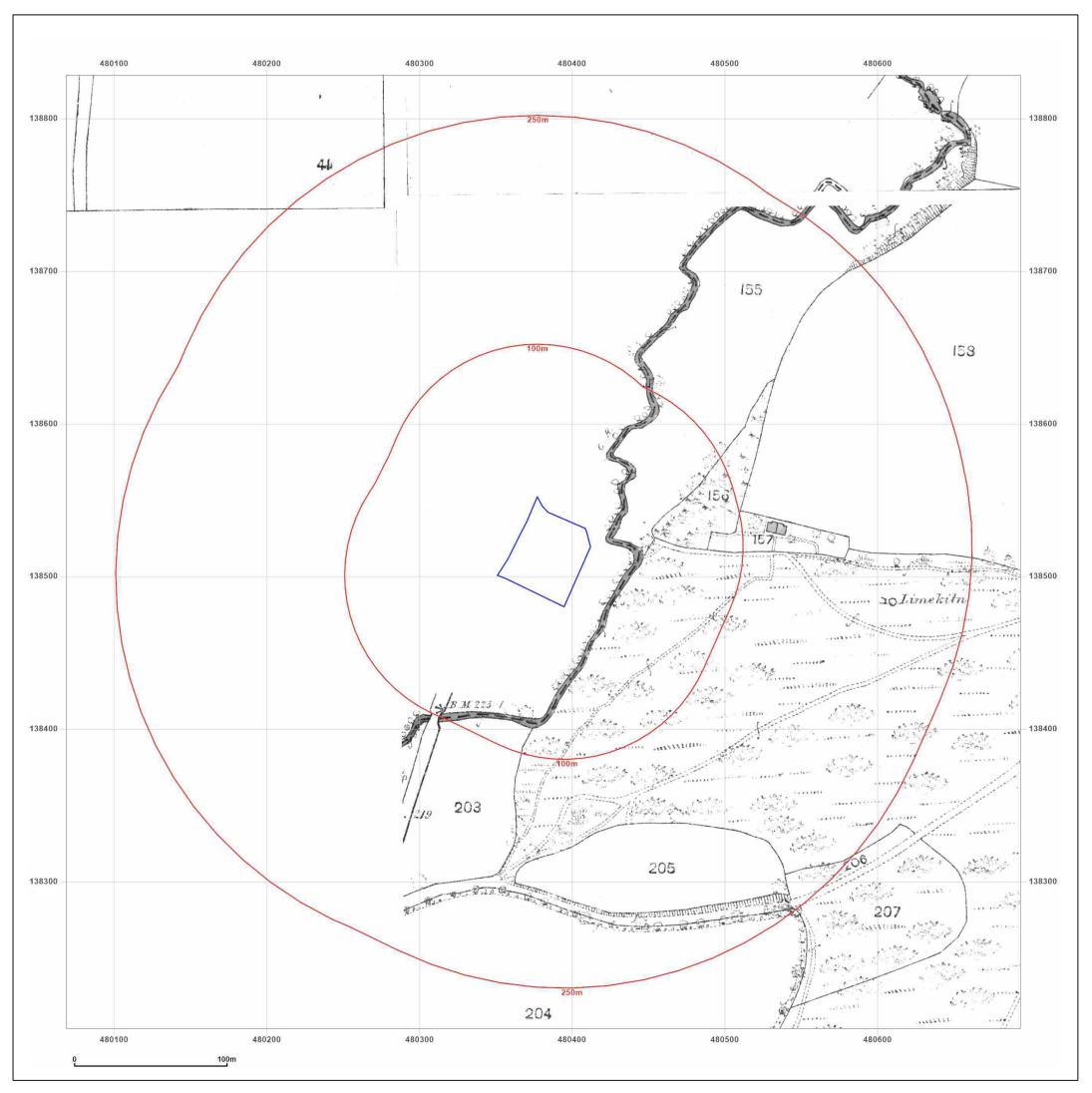


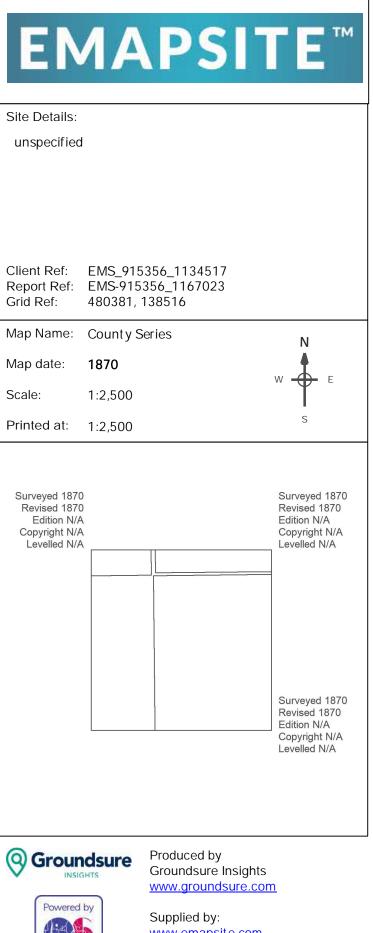




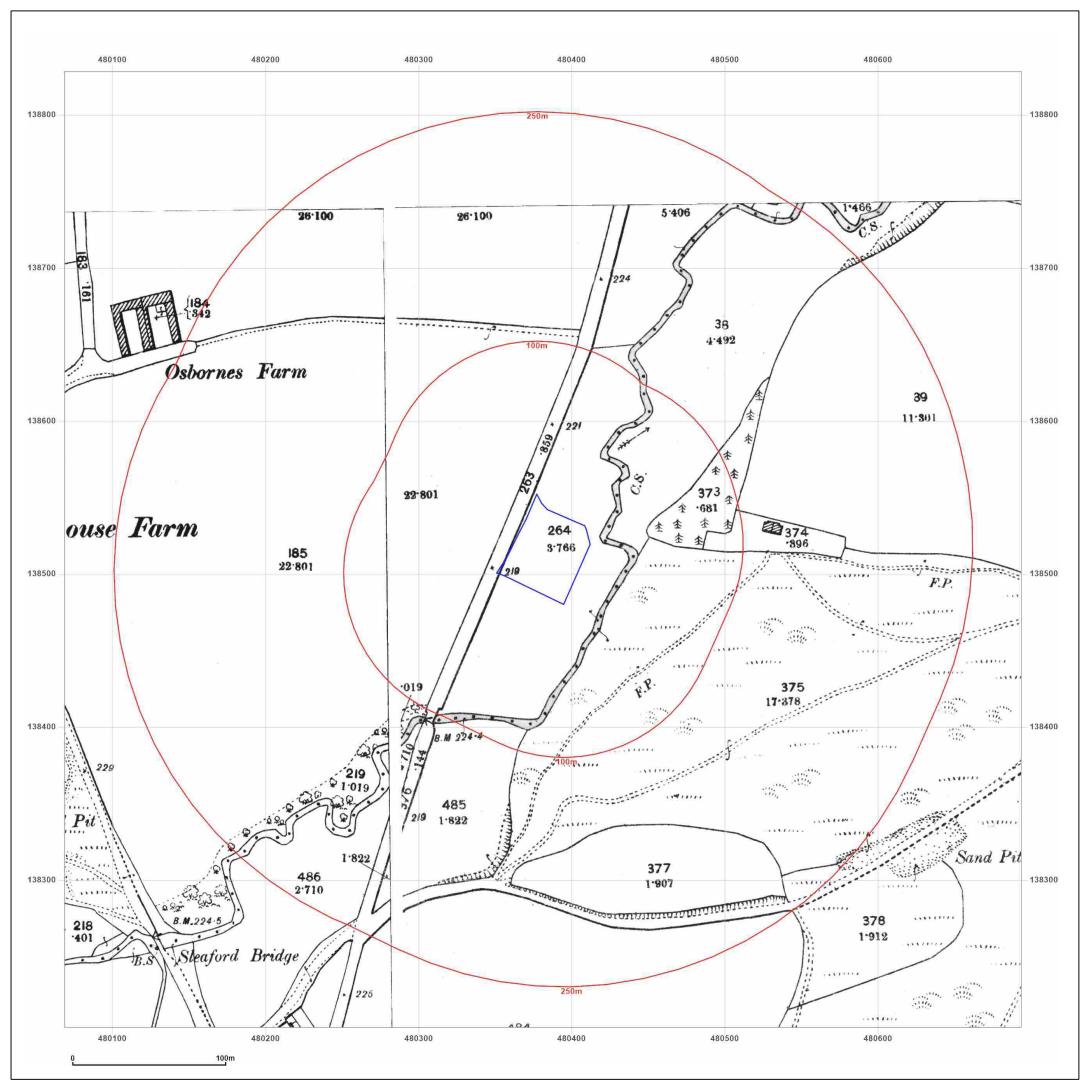
sales@emapsite.com

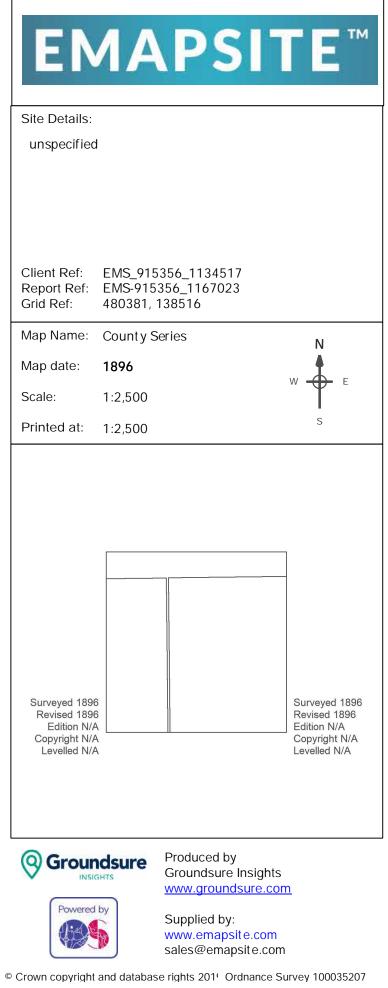
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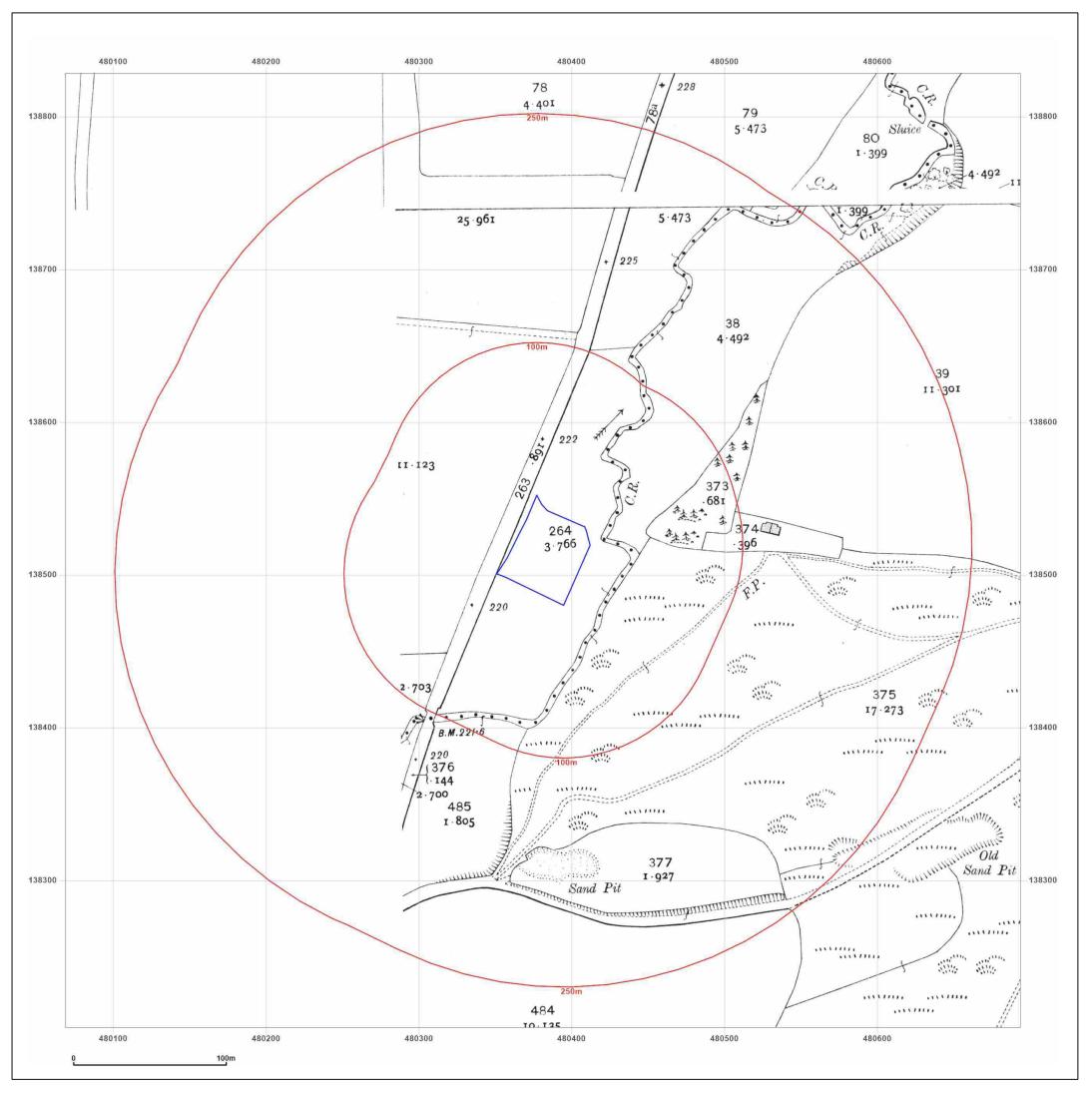


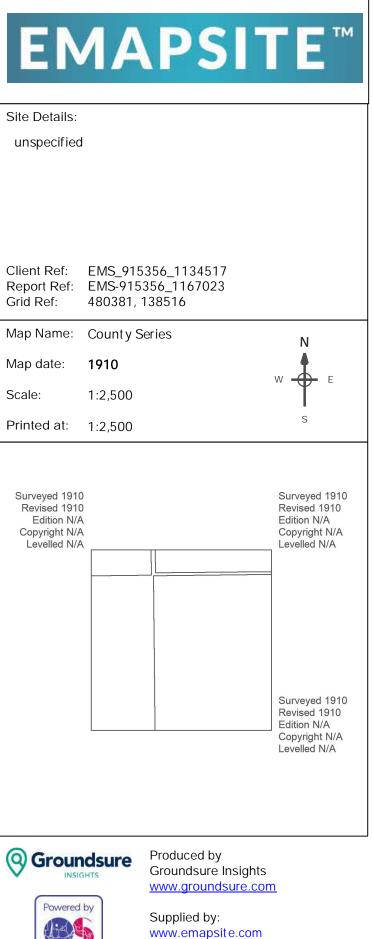
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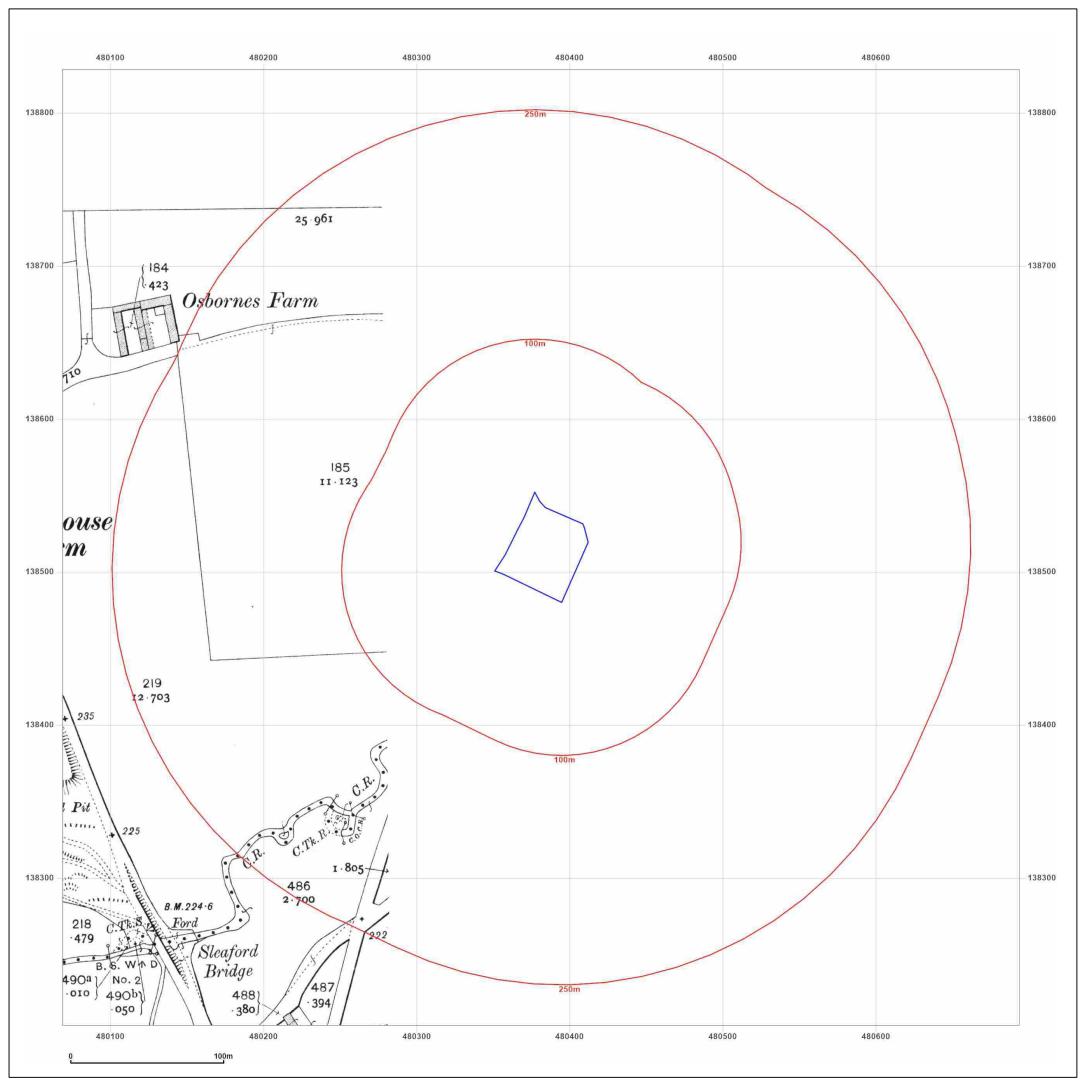


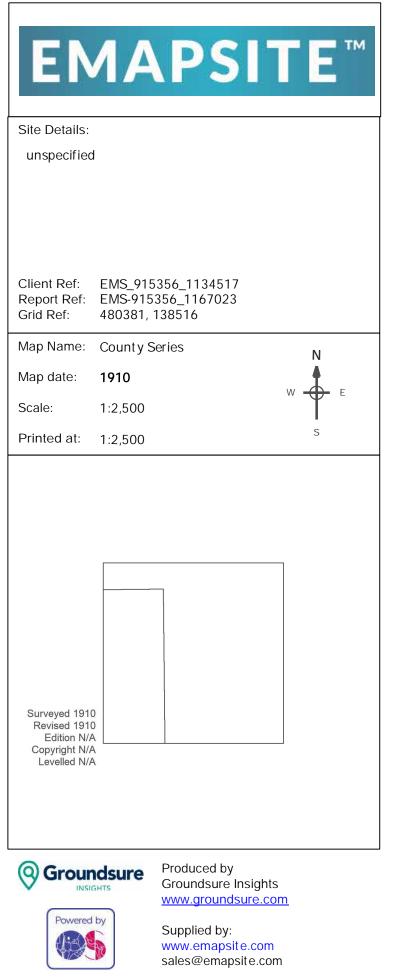
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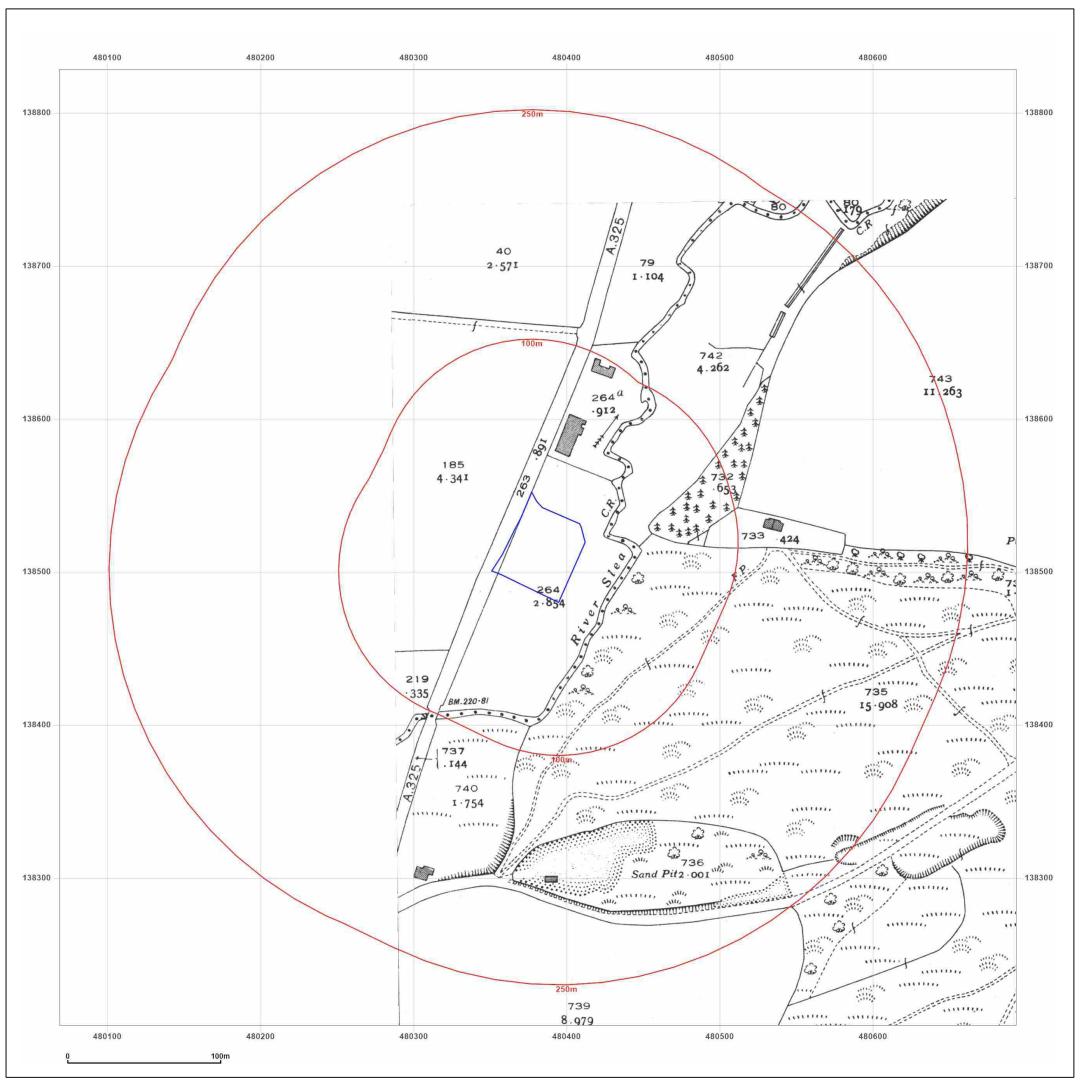


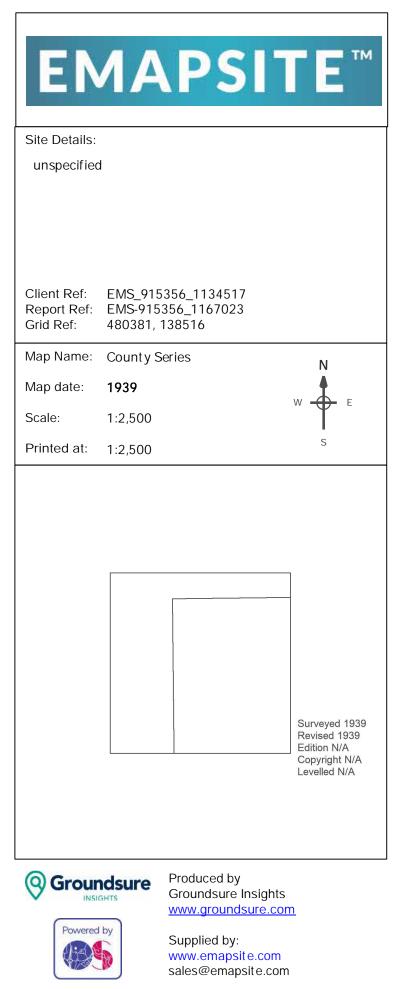


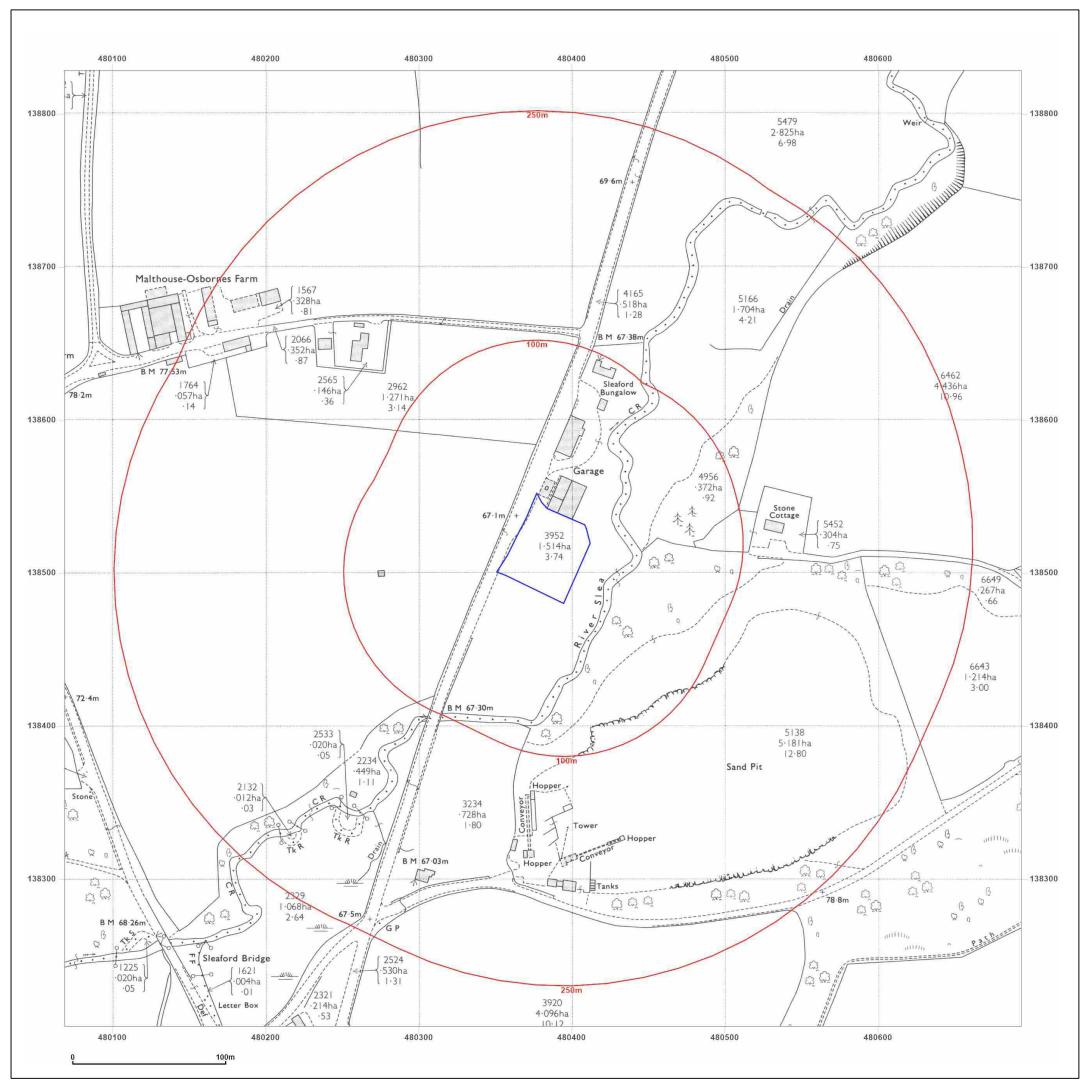
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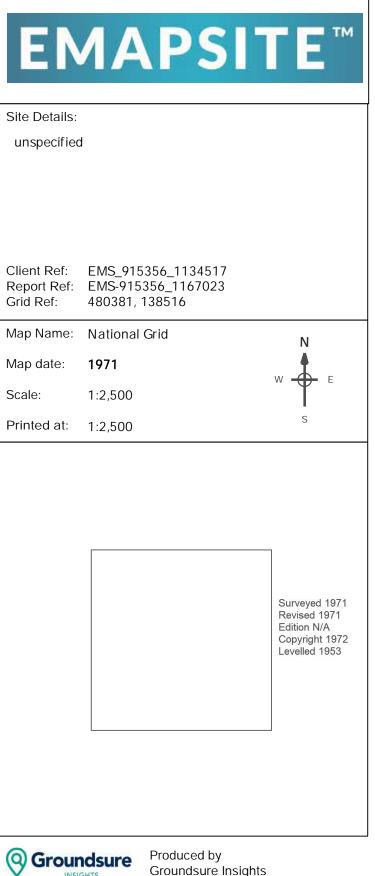








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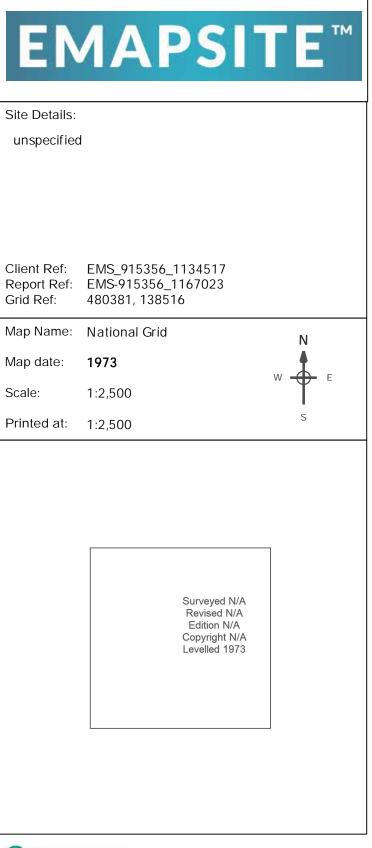
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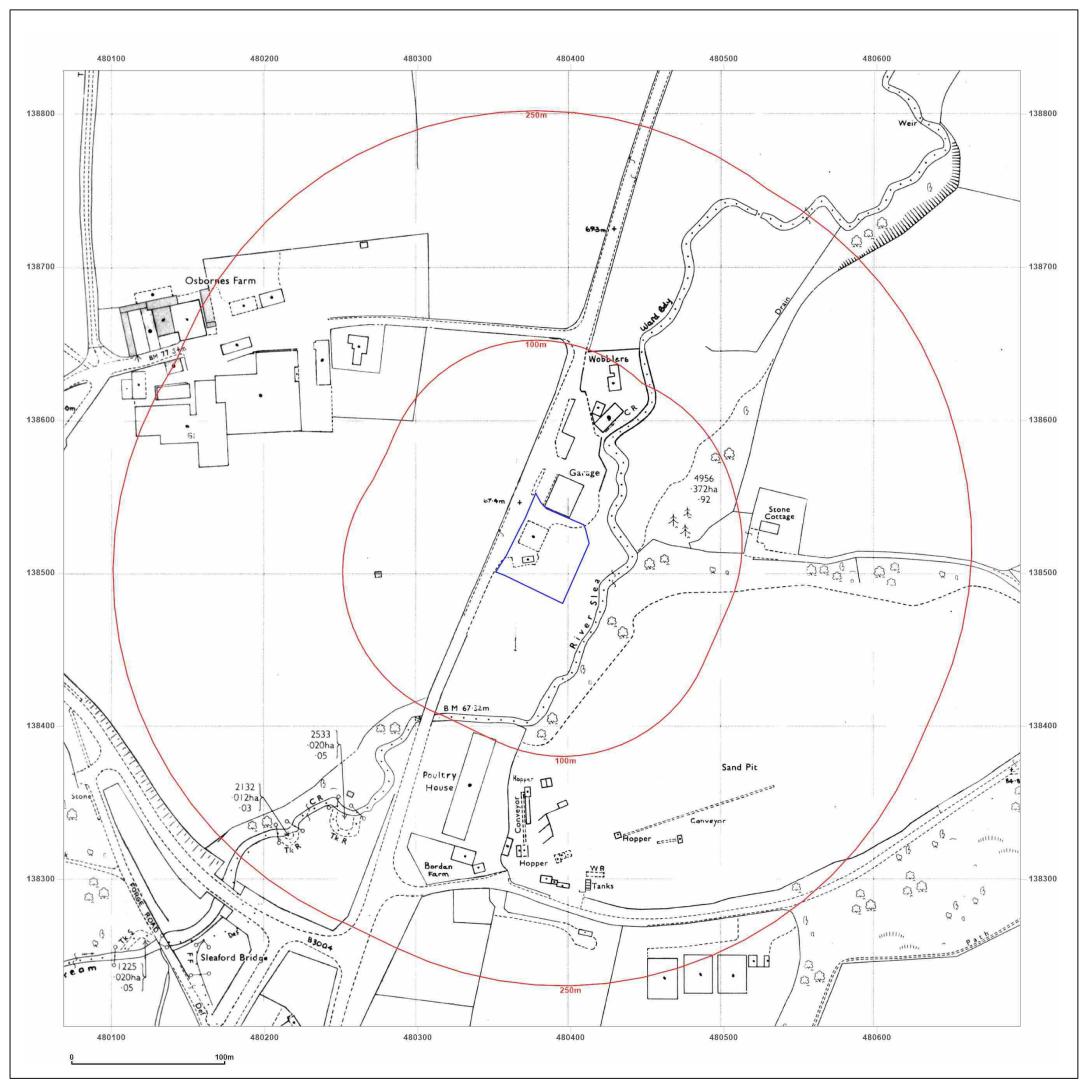
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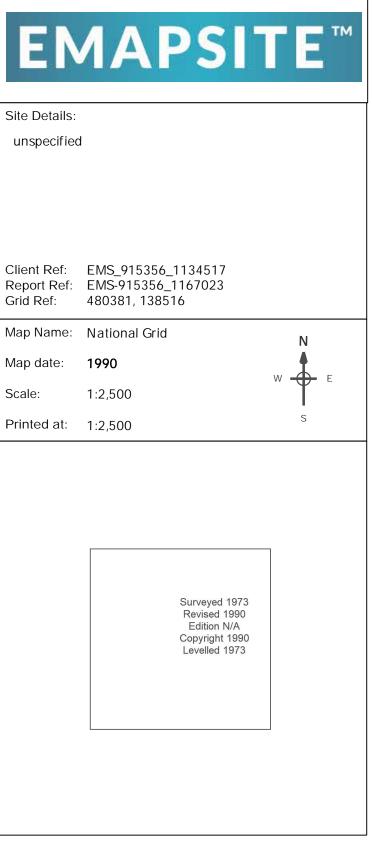


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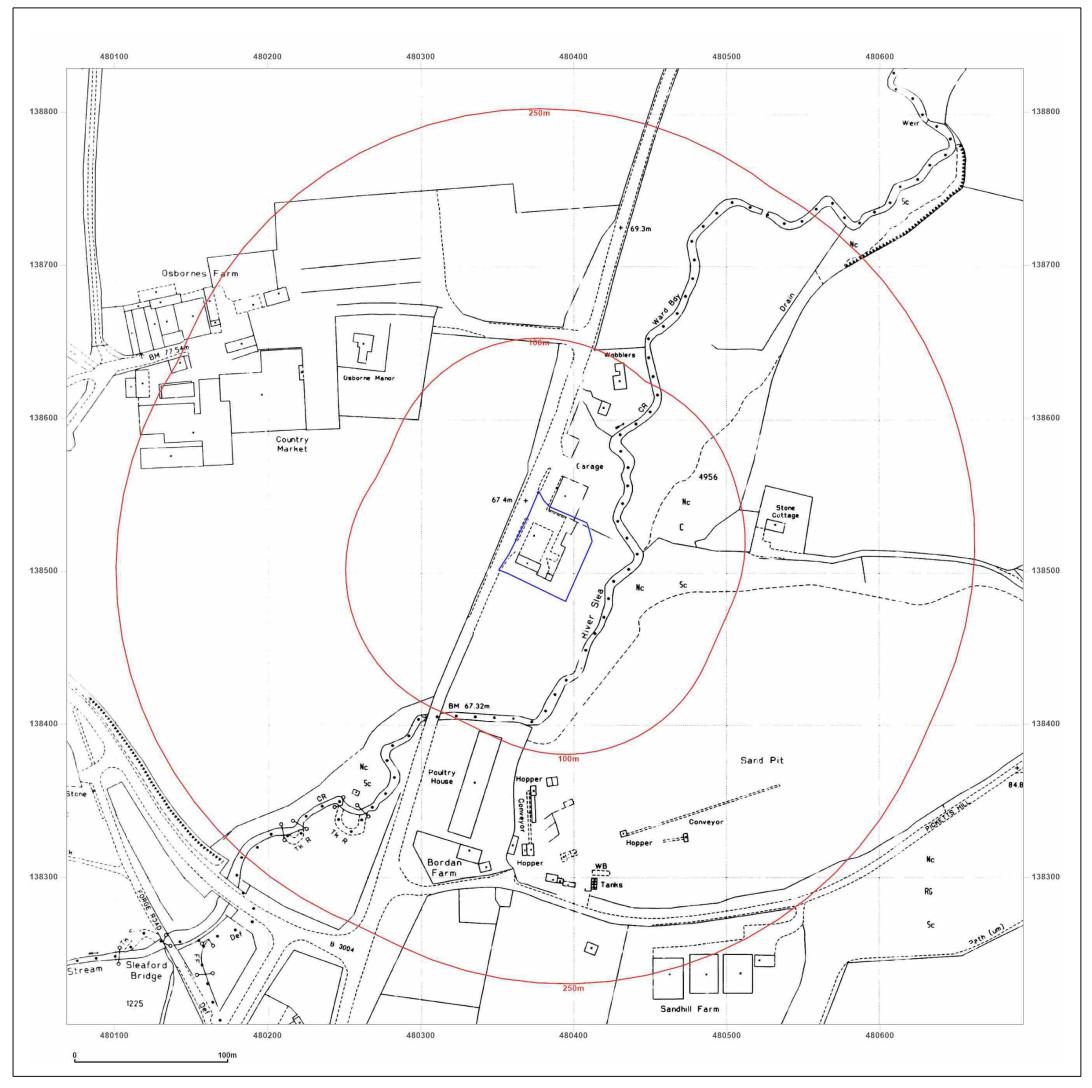


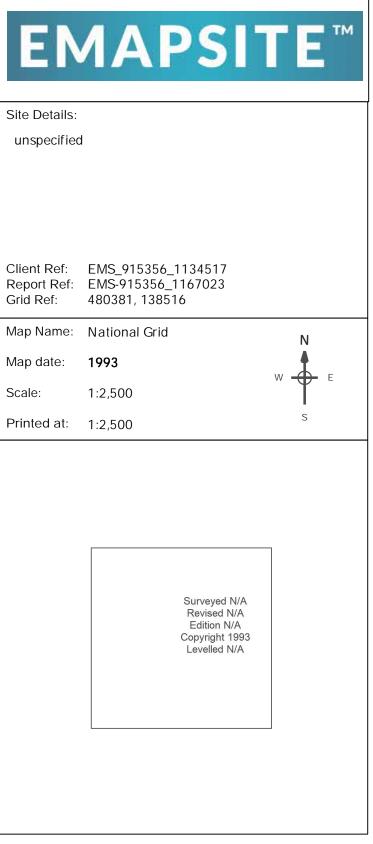






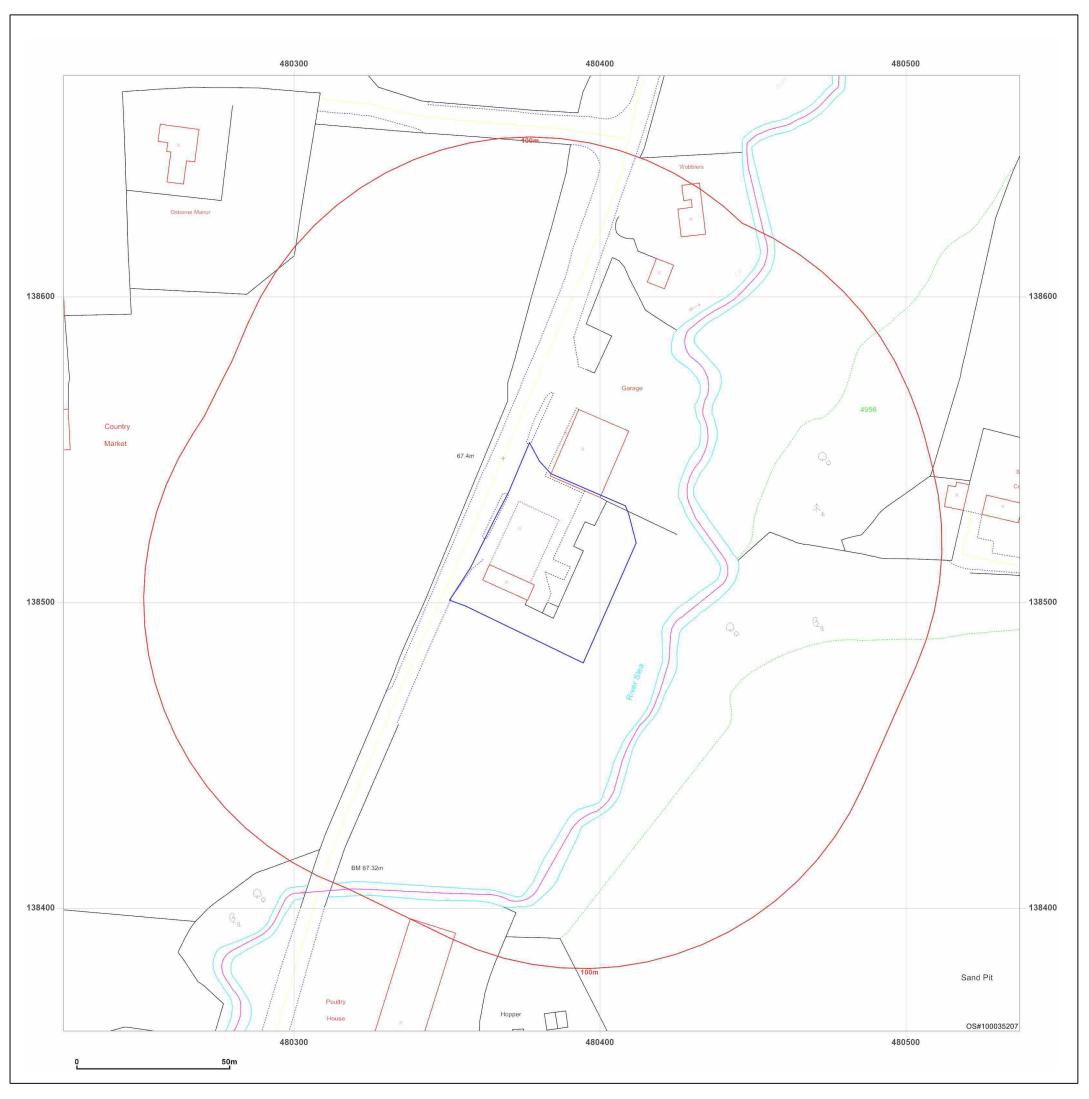


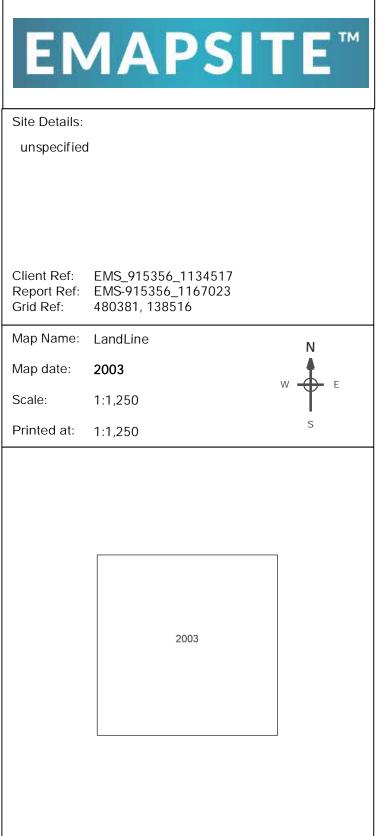






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## **Phase One Environmental Site Assessment**

FS429 – Sleaford Service Station

**Motor Fuel Group Limited** 

SLR Project No.:427.000050.00001

2 February 2024







01/02/2024

Sleaford (MFG)(bp)(FS429) Farnham Road, Sleaford Bordon, Hampshire, GU35 0QP

Fairbanks Environmental has been monitoring the whole of the site site Sleaford (FS429) since November 2009 on behalf of Motor Fuel Group.

We are a specialist wetstock monitoring company with and SIR (Statistical Inventory Reconciliation) leak detection system accredited to 9 Itrs per day.

All of the stations that we monitor on behalf of Motor Fuel Group across the United Kingdom have our own inhouse designed system installed and this allows us to gather communication information as it is communicated between the electronic gauge and the POS (point of sale) on each site. This information includes the start and end time of every transaction as well as the volume dispensed.

As we poll the gauge/tills every 15 minutes, we are able to have up to date information including any relevant alarms that are active on the gauge. We also have a pre-defined suite of thresholds that monitor the data we retreive from the sites and send alerts in-house to our team of dedicated analysts.

Fairbanks and Motor Fuel Group work closely to ensure there is a rigid two-way process structure and as a result we work closely with the site, area and regional managers

All deliveries are checked on a daily basis and any anomolies cross referenced with site Sleaford (FS429) or the fuel supplier and resolved. This is done at both tank and grade level.

On top of this, all sales and deliveries are cross-referenced with site, area and regional managers on a monthly basis and any anomolies investigated and resolved.

The data supplied from the site has been assumed to be correct and the performance of all tanks has been acceptable with no evidence of a loss of product to the ground.

Regards









From: Sent: To: Subject: Attachments:

You don't often get email from david.sommers@hants.gov.uk. Learn why this is important

Dear Megan,

I had time to carry out your search this morning before I go on leave for a week.

Please find below your search response along with the attachments.

#### Current tank details (grade, date of installation, capacity, construction details)

Tank 1 – location as shown on the attached. 26127 litres – single skinned steel - diesel - installed in 1984

Tank 2 – location as shown on the attached. 36369 litres – single skinned steel – UL petrol - installed in 1992

Tank 3 – location as shown on the attached. 36369 litres – single skinned steel - diesel - installed in 1992

Tank 4 – location as shown on the attached. 17542 litres – single skinned steel – SUL petrol - installed in 1992

Tank 5 – location as shown on the attached. 17542 litres – single skinned steel – Super diesel - installed in 1992

#### Details of any decommissioned tanks, including locations if possible

See attached line plans and archive entry.

5 old tanks filled with concrete slurry on 20.2.92.

Four of the tanks were located near to the front of the current Citroen garage and one was in front of current pump number 2.

Details of any known fuel losses / spillages or other stock control concerns

No reported leaks or spillages.

Date of first petroleum licence Unknown. Likely to be 1970s at least.

#### Any available drawings

Line drawings attached. One large site drawing dating from site redevelopment in 1992 which is too big to scan, but could be posted to you to borrow if required. Although it doesn't show any more information than I have detailed here.

#### Any information relating to past redevelopment / layout changes See attached line drawings.

This information is produced on the understanding it is taken from records not wholly made by this Service. As some of the records were not drawn up by this Service, their accuracy cannot be guaranteed, nor are we able to state that they have been kept up to date. Neither this Authority, nor any individual within it, may be held liable for any loss incurred as a direct result of any inaccuracies or omissions contained in the information provided.

oice for £116 (no VAT) will follow in due course using your PO.

Should you require any further information, please come back to me.

Regards David.

#### David Sommers Environmental and Health & Safety Team Leader

Trading Standards Service Universal Services Hampshire County Council Postal address: The Castle, Winchester, SO23 8UD

My normal working days are Tuesday to Friday.



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From: Megan Stanier <mstanier@slrconsulting.com>
Sent: Wednesday, December 13, 2023 5:12 PM
To: Sommers, David <david.sommers@hants.gov.uk>
Subject: MFG Sleaford - Petroleum Officer Search

**Caution:** This is an external email and could contain malicious content. Do not open any links or attachments if you were not expecting them. If the e-mail looks suspicious, please report via the 'Report Phishing' Button found on your toolbar.

Dear Petroleum Officer,

SLR Consulting has been appointed by Motor Fuel Group (the site owner) to carry out an environmental assessment at Sleaford Service Station, A325 Farnham Road, Kingsley, Nr. Bordon, Hampshire, GU35 0QP.

Therefore I would like to request a Petroleum History Search for the site. I am particularly interested to obtain information regarding:

- Current tank details (grade, date of installation, capacity, construction details)
- Details of any decommissioned tanks, including locations if possible
- Details of any known fuel losses / spillages or other stock control concerns
- Date of first petroleum licence
- Any available drawings
- Any information relating to past redevelopment / layout changes

I have attached an authorisation letter from MFG and a plan of the site boundary.





advise whether there is a fee for this service and I will raise a purchase order or make a credit card pay Juired.



Many thanks and best regards,

Megan Stanier

### **Megan Stanier**

Senior Geologist - Land Quality & Remediation



SLR Consulting Limited 2nd and 3rd Floors, 15 Middle Pavement, Nottingham Nottinghamshire United Kingdom NG1 7DX



Confidentiality Notice and Limitation

This communication, and any attachment(s) contains information which is confidential and may also be legally privileged. It is intended for the exclusive use or recipient(s) to whom it is addressed. If you are not the intended recipient, any disclosure, copying, distribution or action taken or not taken in reliance on it is p and may be unlawful. If you have received this communication in error, please advise SLR by e-mail and then delete the e-mail from your system. As e-mails a information sent with them may be intercepted, corrupted and/or delayed, SLR does not accept any liability for any errors or omissions in the message or any howsoever caused after transmission.

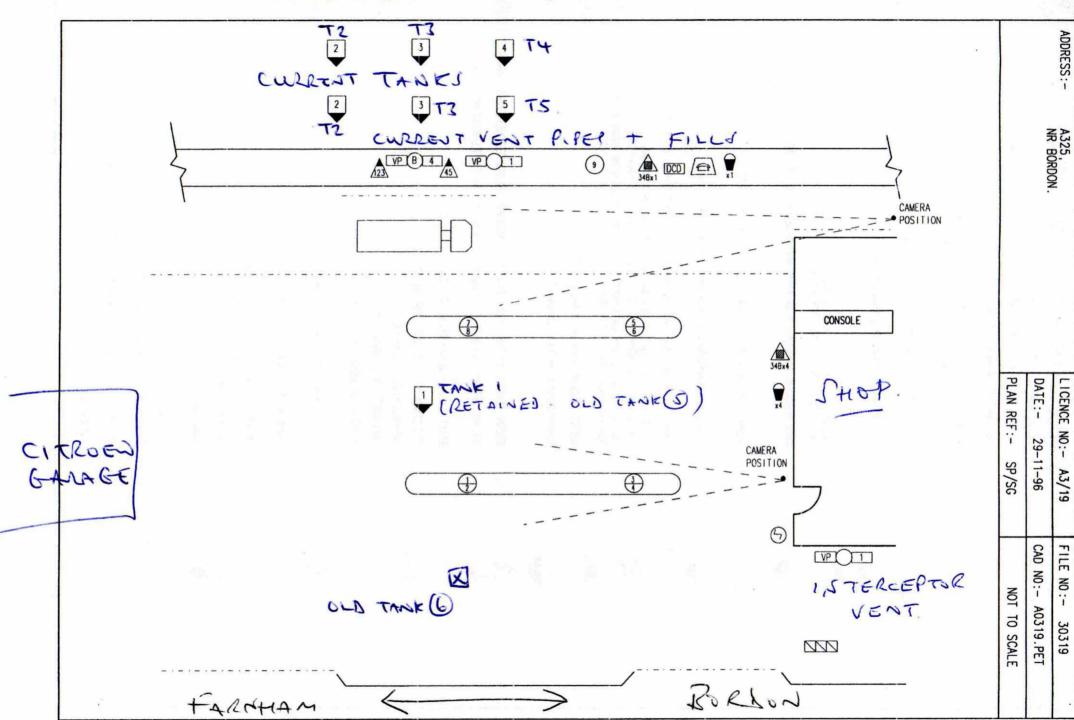
Any advice or opinion is provided on the basis that it has been prepared by SLR with reasonable skill, care and diligence, taking account of the manpower, tim and resources devoted to it by agreement with its Client. It is subject to the terms and conditions of any appointment to which it relates. Parties with whom SLI contractual relationship in relation to the subject of the message should not use or place reliance on any information, advice, recommendations and opinions i message and any attachment(s) for any purpose.

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OLL SITE SITE BEFORE 1992 TANK NO. AND CONTENTS PUMP NOS. CAPACITY ADDRESS SLEAFORD GARAGE PTI RP3 PETROL 13500 KINGSLEY, HANTS PTZ BP4 PETROL 13500 BPI BPZ PT3 PETROL 13500 Licence No. F3/19 DT4 DIESEL 13500 P5 PETROL PTS BP1 - 8P4 27000 Date: 10-5-85 PT6 BPI - BP4 PETROL 18000 Drawn by: DL NOT TO SCALE OLD TANK 5 BECAME TANK I ON THE REVANPES SITE. Officet tand fill piper must be connected to the bank by continuous plying. NO Office opening Depo THE TARK IS ACCEPTABLE. We "T"-ing THISTANK TANK REPAINES FOR Ramper corresponding to DERV. ALL OTHERS. SURPIED ove grown level. Above grown tanks may not sout bybas the second roug of combeliseous' Terrerousing one PEST All Lanks have vent pipes. Fairol tanks such have in-VP 0000 GAUGES eal, stored 00 ETTT by bon Mist. (BPI) CONSOL PTS 1 Not be stor 1.2 TOTLTA Th ph systemith . Must be clearly identified with the PTI PTZ PT3 PT4 PT6 nozzle. Alvays connected to FARNHAM E RORDON

			RE	CISTER NO <u>5/92.</u>	
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CURRENT LAYOUT.





## Appendix F Chemical Laboratory Certificates

## **Phase One Environmental Site Assessment**

FS429 – Sleaford Service Station

**Motor Fuel Group Limited** 

SLR Project No.:427.000050.00001

2 February 2024





Element Materials Technology Unit 3 Deeside Point Zone 3 Deeside Industrial Park Deeside CH5 2UA P: +44 (0) 1244 833780 F: +44 (0) 1244 833781

W: www.element.com

SLR Consulting Ltd Treenwood House Rowden Lane Bradford on Avon United Kingdom BA15 2AU		
Attention :	Megan Stanier	
Date :	12th January, 2024	
Your reference :	427.009905.00001	
Our reference :	Test Report 24/198 Batch 1	
Location :	Sleaford Service Station	
Date samples received :	8th January, 2024	
Status :	Final Report	
Issue :	202401121228	

Two samples were received for analysis on 8th January, 2024 of which two were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

The greenhouse gas emissions generated (in Carbon - Co2e) to obtain the results in this report are estimated as:

Scope 1&2 emissions - 1.882 kg of CO2

Scope 1&2&3 emissions - 4.449 kg of CO2

Authorised By:

Simon Gomery BSc Senior Project Manager

Please include all sections of this report if it is reproduced

#### **Element Materials Technology**

Client Name:
Reference:
Location:
Contact:
EMT Job No:

SLR Consulting Ltd 427.009905.00001 Sleaford Service Station Megan Stanier 24/198

#### Report : Liquid

 $\label{eq:linear} \begin{array}{l} \mbox{Liquids/products: } V{=}40\mbox{ml vial, } G{=}glass \mbox{ bottle, } P{=}plastic \mbox{ bottle } \\ H{=}H_2SO_4, \mbox{ Z}{=}ZnAc, \mbox{ N}{=}NaOH, \mbox{ HN}{=}HNO_3 \end{array}$ 

FLIT Consult No.	1.0								
EMT Sample No.	1-3	4-6				 			
Sample ID	MW101	MW103							
Depth								e attached n	
COC No / misc							abbrevi	ations and ad	cronyms
Containers	V G	V G							
Sample Date	04/01/2024	04/01/2024				 			
Sample Type									
Batch Number		1				 	LOD/LOR	Units	Method No.
Date of Receipt	08/01/2024	08/01/2024							NO.
Methyl Tertiary Butyl Ether	0.055	0.0002					<0.0001	mg/l	TM15/PM10
Benzene	<0.0005	<0.0005					<0.0005	mg/l	TM15/PM10
Toluene	<0.005	<0.005					<0.005	mg/l	TM15/PM10
Ethylbenzene	<0.001	<0.001					<0.001	mg/l	TM15/PM10
m/p-Xylene	<0.002	<0.002					<0.002	mg/l	TM15/PM10
o-Xylene <sup>#</sup>	<0.001	<0.001					<0.001	mg/l	TM15/PM10
Total Xylenes	<0.003	<0.003					<0.003	mg/l	TM15/PM10
Surrogate Recovery Toluene D8	90	89					<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	99	96					<0	%	TM15/PM10
TPH CWG									
Aliphatics									
>C5-C6	<0.01	<0.01					< 0.01	mg/l	TM36/PM12
>C6-C8	0.01	<0.01					<0.01	mg/l	TM36/PM12
>C8-C10*	0.01	<0.01					<0.01	mg/l	TM36/PM12
>C10-C12*	<0.005	<0.005					<0.005	mg/l	TM5/PM16/PM30
>C12-C16	<0.01	<0.01					< 0.01	mg/l	TM5/PM16/PM30
>C16-C21	<0.01	<0.01					<0.01	mg/l	TM5/PM16/PM30
>C21-C35	<0.01	<0.01					< 0.01	mg/l	TM5/PM16/PM30
Total aliphatics C5-35	0.02	<0.01					<0.01	mg/l	TM5/TM36/PM12/PM16/PM30
Aromatics									
>C5-EC7 *	<0.01	<0.01					<0.01	mg/l	TM36/PM12
>EC7-EC8	<0.01	<0.01					< 0.01	mg/l	TM36/PM12
>EC8-EC10	<0.01	<0.01					<0.01	mg/l	TM36/PM12
>EC10-EC12*	<0.005	<0.005					<0.005	mg/l	TM5/PM16/PM30
>EC12-EC16	<0.01	<0.01					<0.01	mg/l	TM5/PM16/PM30
>EC16-EC21*	<0.01	<0.01					<0.01	mg/l	TM5/PM16/PM30
>EC21-EC35*	<0.01	<0.01					< 0.01	mg/l	TM5/PM16/PM30
Total aromatics C5-35	<0.01	<0.01					< 0.01	mg/l	TM5/TM36/PM12/PM16/PM30
Total aliphatics and aromatics(C5-35)	0.02	<0.01					<0.01	mg/l	TM5/TM36/PM12/PM16/PM30
								-	

## **Element Materials Technology**

Client Name:	SLR Consulting Ltd
Reference:	427.009905.00001
Location:	Sleaford Service Station
Contact:	Megan Stanier

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Analysis	Reason		
	No deviating sample report results for job 24/198							

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating. Only analyses which are accredited are recorded as deviating criteria are not met.

It is a requirement under ISO 17025 that we inform clients if samples are deviating i.e. outside what is expected. A deviating sample indicates that the sample 'may' be compromised but not necessarily will be compromised. The result is still accredited and our analytical reports will still show accreditation on the relevant analytes.

#### NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

*EMT Job No.:* 24/198

#### SOILS and ASH

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at  $35^{\circ}C \pm 5^{\circ}C$  unless otherwise stated. Moisture content for CEN Leachate tests are dried at  $105^{\circ}C \pm 5^{\circ}C$ . Ash samples are dried at  $37^{\circ}C \pm 5^{\circ}C$ .

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCI (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overesitimate when other sulphides such as Barite (Barium Sulphate) are present.

#### WATERS

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

#### STACK EMISSIONS

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

#### **DEVIATING SAMPLES**

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

#### SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

#### DILUTIONS

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

#### BLANKS

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

#### NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a requirement of our Accreditation Body for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation. Laboratory records are kept for a period of no less than 6 years.

#### REPORTS FROM THE SOUTH AFRICA LABORATORY

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

#### **Measurement Uncertainty**

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

#### **Customer Provided Information**

Sample ID and depth is information provided by the customer.

#### Age of Diesel

The age of release estimation is based on the nC17/pristane ratio only as prescribed by Christensen and Larsen (1993) and Kaplan, Galperin, Alimi et al., (1996).

Age estimation should be treated with caution as it can be influenced by site specific factors of which the laboratory are not aware.

#### ABBREVIATIONS and ACRONYMS USED

#	ISO17025 (UKAS Ref No. 4225) accredited - UK.
SA	ISO17025 (SANAS Ref No.T0729) accredited - South Africa
В	Indicates analyte found in associated method blank.
DR	Dilution required.
М	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
>>	Results above quantitative calibration range. The result should be considered the minimum value and is indicative only. The actual result could be significantly higher.
*	Analysis subcontracted to an Element Materials Technology approved laboratory.
AD	Samples are dried at 35°C ±5°C
СО	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
BS	AQC Sample
LB	Blank Sample
N	Client Sample
ТВ	Trip Blank Sample
ОС	Outside Calibration Range
L	

## **Element Materials Technology**

#### EMT Job No: 24/198

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/S ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM16/PM30	Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE/Water samples are extracted with solvent using a magnetic stirrer to create a vortex.	Yes			
TM5/TM36	please refer to TM5 and TM36 for method details	PM12/PM16/PM30	please refer to PM16/PM30 and PM12 for method details	Yes			
TM15	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.				
TM15	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes			
ТМ36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GCFID co- elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes			



# Appendix G PFS GAC

## **Phase One Environmental Site Assessment**

FS429 – Sleaford Service Station

Motor Fuel Group Limited

SLR Project No.:427.000050.00001

2 February 2024





IP

Author

#### SLR Consulting Ltd - Petrol Filling Station Generic Assessment Criteria

version:

7.1

Date

22/03/2012

	Receptor	Onsite Hum	an Uaalth	Officito L	luman Health			Controll	ed Waters			Site Manage	montlimite
Contaminant Type	Sensitivity	Commercial -			ing Residential	Hiç	αh	Med		Low	1	Site Manage	
51	Contaminant of Concern	Soil (mg/kg)	GW (mg/l)	Soil (mg/kg)	GW (mg/l)	Soil (mg/kg)	GW (mg/l)	Soil (mg/kg)	GW (mg/l)	Soil (mg/kg)	GW (mg/l)	Soil (mg/kg)	GW (mg/l)
	Benzene	16	0.92	0.79	0.047	0.03	0.0015	3.6	0.6	>sat	460		
	Toluene	>sat	>sol	>sat	56	4.7	0.12	>sat	380	>sat	>sol	140	No SPH
BTEX / MTBE	Ethyl benzene	>sat 140 >sat 8.6 5.7 0.075 >sat >sol >sat	>sat	>sol	140	NO 3PH							
	Xylene (Mixed Isomers)	>sat	50	220	2.9	8.8	0.11	>sat	>sol	>sat	>sol		
	Methyl t-Butyl ether (MTBE)	8200	3700	1900	180	0.2	0.018	0.2	0.051	1.2	0.54		
	TPH - Aliph >C05-C06	>sat	18	280	1.0	8.3	0.03	>sat	>sol	>sat	>sol		
Petrol (GRO)	TPH - Aliph >C06-C08	>sat	>sol	>sat	2.2	>sat	0.42	>sat	>sol	>sat	>sol	700	No SPH
Felior (GRO)	TPH - Aliph >C08-C10	>sat	>sol	>sat	>sol	>sat	>sol	>sat	>sol	>sat	>sol	700	NO JETT
	TPH - Arom >C08-C10	>sat	15	290	1.2	53	0.21	>sat	>sol	>sat	>sol		
	TPH - Aliph >C10-C12	>sat	>sol	>sat	>sol	>sat	>sol	>sat	>sol	>sat	>sol		
Diesel (DRO)	TPH - Arom >C10-C12	>sat	>sol	>sat	4.6	130	0.32	>sat	>sol	>sat	>sol	1000	No SPH
Diesei (Dito)	TPH - Aliph >C12-C16	>sat	>sol	>sat	>sol	>sat	>sol	>sat	>sol	>sat	>sol	1000	NO 5111
	TPH - Arom >C12-C16	>sat	>sol	>sat	>sol	>sat	0.56	>sat	>sol	>sat	>sol		
	TPH - Aliph >C16-C34	No risk	No risk	No risk	No risk	>sat	>sol	>sat	>sol	>sat	>sol		
High Mol. Wt. Hydrocarbons	TPH - Arom >C16-C21	No risk	No risk	No risk	No risk	>sat	>sol	>sat	>sol	>sat	>sol	2500	No SPH
	TPH - Arom >C21-C35	No risk	No risk	No risk	No risk	>sat	>sol	>sat	>sol	>sat	>sol		

Controlled Waters Sensitivity	High	Medium	Low
Aquifer	Principal	Secondary	Unproductive
Source Protection Zone	Total catchment	None	None
Surface Water	<25m	25m - 100m	>100m
Adopted Compliance Point	25	50	50
Geology	sand	sandy loam	clay

AQUIFER / DISTANCE TO SW	<25	25 - 100	>100
Principal and/or SPZ3	High	High	High
Secondary	High	Medium	Medium
Unproductive	Medium	Medium	Low

Notes >sat

>sol

No risk

Derived risk based target exceeds the soil saturation limit based on three phase partitioning calculations. Soil concentrations exceeding the soil saturation limit indicates the presence of separate phase hydrocarbon, likely present as a residual immobile phase within the soil porosity. A saturation exceedance doesn't indicate a risk as the risk model indicates that the soil is already saturated with vapour, so further vapour migration cannot occur.

Derived risk based target exceeds the contaminant solubility limit. The solubility limit indicates the maximum theoretical dissolved phase concentration possible. Groundwater concentrations exceeding the solubility limit indicates the presence of separate phase hydrocarbon within the sample analysed, likely deriving from residual immobile phase within the aquifer porosity or sediment within the sample.

The contaminants of concern are not volatile, and no toxicological data is available for inhalation exposure, so contaminant does not present a health risk via inhalation

No SPH Target is based on no measurable Separate Phase Hydrocarbon being present Site Management Limits

These are soil limits derived from CCME, and include consideration of issues outside of the standard exposure pathways assessed in the model, including Fire / explosion hazards, workers exposure to vapours in trenches, effects on buried services, limits at which odour and aesthetics (eg black staining), would be apparent, and concentrations at which mobile separate phase is likely to occur. These limits are particularly applicable to heavy end hydrocarbons which have negligible solubility and no vapour risk, but could potentially be present at significant concentrations. Exceedance of management limits does not neccessarily indicate an actual risk, but illustrates that further consideration and appraisal of these issues should be carried out.



# Appendix H PFS GAC Output Sheets

## **Phase One Environmental Site Assessment**

### FS429 – Sleaford Service Station

**Motor Fuel Group Limited** 

SLR Project No.:427.000050.00001

2 February 2024



## Generic PFS Risk Assessment -Lab Data Screening

 BOLD
 Exceeds Site Management Limit

 Exceeds GAC
 Exceeds LOD

Client Name	MFG
Site Name	Sleaford
Job Number	427.009905.00001
Date	31/01/2024
Site Use	Petrol Filling Station
Risk Driver	Human Health
Sample Type	Groundwater
Scenario	HH Groundwater - Off Site Resi

				0.4	Count			
				Site	Exceeding Site			
<b>-</b>			GAC Value	Management	-			
Test	Units	LOD	(mg/l)	Limit	Limit	Count Exceeding GAC		
MTBE	mg/l	<0.0001	180	-	0	0	0.055	0.0002
Benzene	mg/l	< 0.0005	0.047	-	0	0	< 0.0005	<0.0005
Toluene	mg/l	<0.005	56	-	0	0	<0.005	<0.005
Ethylbenzene	mg/l	<0.001	8.6	-	0	0	<0.001	<0.001
m & p Xylene	mg/l	< 0.002	2.9	-	0	0	<0.002	<0.002
o-Xylene	mg/l	<0.001	2.9	-	0	0	<0.001	<0.001
Total Xylenes	mg/l	< 0.003	2.9	-	0	0	<0.003	<0.003
TPH CWG							-	-
Aliphatics							-	-
aliphatics >C5-C6	mg/l	< 0.01	1	-	0	0	<0.01	<0.01
aliphatics >C6-C8	mg/l	< 0.01	2.2	-	0	0	0.01	<0.01
aliphatics >C8-C10	mg/l	< 0.01	>sol	-	0	0	0.01	<0.01
aliphatics >C10-C12	mg/l	< 0.005	>sol	-	0	0	<0.005	<0.005
aliphatics >C12-C16	mg/l	< 0.01	>sol	-	0	0	<0.01	<0.01
aliphatics >C16-C21	mg/l	< 0.01	No Risk	-	0	0	<0.01	<0.01
aliphatics >C21-C35	mg/l	< 0.01	No Risk	-	0	0	<0.01	<0.01
Total aliphatics C5-35	mg/l	< 0.01					0.02	<0.01
Aromatics							-	-
aromatics >EC5-EC7	mg/l	< 0.01	-	-	0	0	<0.01	<0.01
aromatics >EC7-EC8	mg/l	<0.01	-	-	0	0	<0.01	<0.01
aromatics >EC8-EC10	mg/l	< 0.01	1.2	-	0	0	<0.01	<0.01
aromatics >EC10-EC12	mg/l	< 0.005	4.6	-	0	0	<0.005	<0.005
aromatics >EC12-EC16	mg/l	< 0.01	>sol	-	0	0	<0.01	<0.01
aromatics >EC16-EC21	mg/l	< 0.01	No Risk	-	0	0	<0.01	<0.01
aromatics >EC21-EC35	mg/l	< 0.01	No Risk	-	0	0	<0.01	<0.01
Total aromatics C5-35	mg/l	< 0.01					<0.01	<0.01
Total aliphatics and aromatics(C5-35)	mg/l	<0.01					0.02	<0.01
PRO	mg/l		-	No SPH	0	0	0.02	-
DRO	mg/l		-	No SPH	0	0	-	_
BTEX	mg/l		-	No SPH	0	0	-	-
Heavy Chain Hydrocarbons	mg/l		_	No SPH	0	0	-	-
					<b></b>			

Sample ID	MW101	MW103		
Depth				
Sample Type	Ground Water	Ground Water		
Sampled Date	04/01/24	04/01/24		
Sample Received Date	08/01/24	08/01/24		
EMT Sample No	1-3	4-6		
Batch Number	1	1		
Strata / Zone	-	-		



## Generic PFS Risk Assessment -Lab Data Screening

 BOLD
 Exceeds Site Management Limit

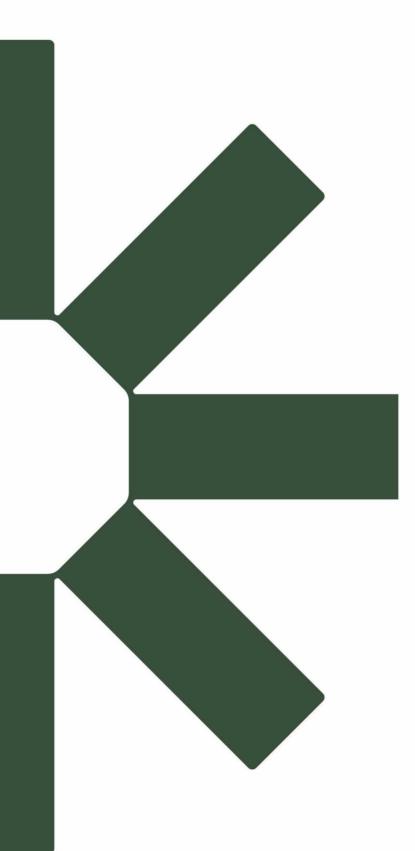
 Exceeds GAC
 Exceeds LOD

Client Name	MFG		
Site Name	Sleaford		
Job Number	427.009905.00001		
Date	31/01/2024		
Site Use	Petrol Filling Station		
Risk Driver	Human Health		
Sample Type	Groundwater		
Scenario	HH Groundwater - On Site Shop		

					Count			
				Site	Exceeding Site			
			GAC Value	Management	Management			
Test	Units	LOD	(mg/l)	Limit	Limit	Count Exceeding GAC		
MTBE	mg/l	<0.0001	3700	-	0	0	0.055	0.0002
Benzene	mg/l	< 0.0005	0.92	-	0	0	< 0.0005	< 0.0005
Toluene	mg/l	< 0.005	>sol	-	0	0	< 0.005	< 0.005
Ethylbenzene	mg/l	< 0.001	140	-	0	0	<0.001	<0.001
m & p Xylene	mg/l	< 0.002	50	-	0	0	<0.002	<0.002
o-Xylene	mg/l	<0.001	50	-	0	0	<0.001	<0.001
Total Xylenes	mg/l	< 0.003	50	-	0	0	<0.003	<0.003
TPH CWG							-	-
Aliphatics							-	-
aliphatics >C5-C6	mg/l	< 0.01	18	-	0	0	<0.01	<0.01
aliphatics >C6-C8	mg/l	< 0.01	>sol	-	0	0	0.01	<0.01
aliphatics >C8-C10	mg/l	< 0.01	>sol	-	0	0	0.01	<0.01
aliphatics >C10-C12	mg/l	< 0.005	>sol	-	0	0	<0.005	< 0.005
aliphatics >C12-C16	mg/l	< 0.01	>sol	-	0	0	<0.01	<0.01
aliphatics >C16-C21	mg/l	< 0.01	No Risk	-	0	0	<0.01	<0.01
aliphatics >C21-C35	mg/l	< 0.01	No Risk	-	0	0	<0.01	<0.01
Total aliphatics C5-35	mg/l	<0.01					0.02	<0.01
Aromatics	-						-	-
aromatics >EC5-EC7	mg/l	< 0.01	-	-	0	0	<0.01	<0.01
aromatics >EC7-EC8	mg/l	<0.01	-	-	0	0	<0.01	<0.01
aromatics >EC8-EC10	mg/l	< 0.01	15	-	0	0	<0.01	<0.01
aromatics >EC10-EC12	mg/l	< 0.005	>sol	-	0	0	<0.005	<0.005
aromatics >EC12-EC16	mg/l	<0.01	>sol	-	0	0	<0.01	<0.01
aromatics >EC16-EC21	mg/l	<0.01	No Risk	-	0	0	<0.01	<0.01
aromatics >EC21-EC35	mg/l	<0.01	No Risk	-	0	0	<0.01	<0.01
Total aromatics C5-35	mg/l	<0.01					<0.01	<0.01
Total aliphatics and aromatics(C5-35)	mg/l	<0.01					0.02	<0.01
PRO	mg/l		-	No SPH	0	0	0.02	
DRO	mg/l		-	No SPH	0	0	-	-
BTEX	mg/l		-	No SPH	0	0	-	-
Heavy Chain Hydrocarbons	mg/l		-	No SPH	0	0	-	-

Sample ID	MW101	MW103		
Depth				
Sample Type	Ground Water	Ground Water		
Sampled Date	04/01/24	04/01/24		
Sample Received Date	08/01/24	08/01/24		
EMT Sample No	1-3	4-6		
Batch Number	1	1		
Strata / Zone	-	-		





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