Intermodal Logistics Park North Ltd

INTERMODAL LOGISTICS PARK NORTH (ILPN)

Intermodal Logistics Park North (ILPN) Strategic Rail Freight Interchange (SRFI)

Project reference TR510001

Preliminary Environmental Information Report (PEIR)

Appendix 15.1: Phase 1 Geo-environmental Assessment (Part 01 of 04)

October 2025

Planning Act 2008

The Infrastructure Planning (Environmental Impact Assessment) Regulations 2017

This document forms a part of a Preliminary Environmental Information Report (PEIR) for the Intermodal Logistics Park North (ILPN) project.

A PEIR presents environmental information to assist consultees to form an informed view of the likely significant environmental effects of a proposed development and provide feedback.

This PEIR has been prepared by the project promoter, Intermodal Logistics Park North Ltd. The Proposed Development is described in Chapter 3 of the PEIR and is the subject of a public consultation.

Details of how to respond to the public consultation are provided at the end of Chapter 1 of the PEIR and on the project website:

https://www.tritaxbigbox.co.uk/our-spaces/intermodal-logistics-park-north/

This feedback will be taken into account by Intermodal Logistics Park North Ltd in the preparation of its application for a Development Consent Order for the project.

A CAF GROUP COMPANY

ENVIRONMENT

Intermodal Logistics Park (ILP) North Ltd
Intermodal Logistics Park (ILP) North Strategic Rail Freight Interchange (SRFI)
St Helens
Phase 1 Geo-Environmental Assessment

www.bwbconsulting.com

ENVIRONMENT

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Intermodal Logistics Park (ILP) North Strategic Rail Freight Interchange (SRFI)
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Phase 1 Geo-Environmental Assessment

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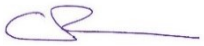
Reviewer:	Catherine Riley CEng, CEnv, MCIWEM	Principal Geoenvironmental Consultant	
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P2	July 2025	S2	Updated site boundary	Lucy Young BSc (Hons)	Richard Robinson BSc (Hons) MCIWEM
P3	October 2025	S2	Minor amendments following Client Team review	Richard Robinson BSc (Hons) MCIWEM	Richard Robinson BSc (Hons) MCIWEM

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EXECUTIVE SUMMARY

Executive Summary	
Site Address	The site is located to the southeast of Newton Le Willows and the central area is accessed via the A579 to the east and the A573 in the west.
Proposed Development	The proposed development comprises a Strategic Rail Freight Interchange (SRFI). Current proposals include the main rail freight port in the northeast of the site with a shunt siding in the Western Area of the site (Western Rail Chord). The development is anticipated to include employment units for B8 uses with ancillary space and soft landscaping areas. To facilitate the development is anticipated that a significant earthworks exercise will be required to create suitable development platforms and achieve suitable levels for the SRFI facility.
Site Use	The Main Site currently comprise agricultural land with sporadic farms/residences, dog training facilities and a grass airstrip. A small area of recent burning was noted during the walkover (circa 5m diameter) in the north east of the Main Site near the dog training facility. The site is predominantly surrounded by agricultural fields. The Western Rail Chord comprising overgrown vegetation, access to an active farm, and part of the former Parkside Colliery car park.
Site History	The site has remained largely undeveloped comprising open fields with several farms/residences and ponds noted throughout its mapped history. A rail line runs east/west in the far north of the site and beyond. Several possibly infilled ponds are located on site. In the 21st century a grass airstrip opened southeast of Highfield Moss. Land associated with the former Parkside Colliery encroaches the western site boundary slightly. The site surroundings were similarly used as predominantly agricultural land throughout the mapped history. Several industrial processes and sandstone quarrying activity is noted throughout the surrounding areas mapped history.
Ground Conditions	The central section of the site is predominantly underlain by Devensian Till deposits or devoid of any superficial deposits. Mapping displays that Glaciofluvial Ice Contact deposits are mapped to the far north with small sequences of Glaciofluvial Ice Contact deposits and Lacustrine Deposits in the northeast. Peat deposits are mapped within Highfield Moss (immediately to the north) and have the potential to extend onto the site. The vast majority of superficial deposits overlie the Chester Formation (sandstone) bedrock. The Kinnerton Sandstone Formation, and the Manchester Marls Formation are located beneath superficial deposits in the west of the Main Site area. The area to the west is similarly mapped as a mixture of superficial Devensian Till, with some areas being devoid of superficial deposits. The majority of this section comprises of the Chester Formation bedrock, with the eastern boundary comprising the Manchester Marls Formation. Made Ground is not indicated by BGS mapping to be present on site but was noted at the former Mains Pit pond; it may also be present in the vicinity of roads, farms, other historically potentially infilled ponds/pits, the M6 motorway, and the railway cutting.
Environmental Sensitivity	Highfield Moss is a Special Site of Scientific Interest (SSSI) immediately north of the Main Site. The scheme has the potential to alter the hydrogeological regime and in turn affect Highfield Moss SSSI.
Geotechnical Review	Earthworks will be required at the site to create development plateaus for the warehouse units and rail alignments. Following the earthworks, a shallow spread foundation solution is expected to be viable across the majority of for the proposed development, subject to cut / fill and placement of fill to an

	engineering specification. Varied foundation and ground improvement options, however, could be adopted dependant on the encountered ground conditions.
Environmental Review	When considered in the context of the conceptual site model and the historical activities that have taken place (farming activities), the proposed development is considered to pose a MODERATE/LOW risk to human health. It is considered that the main driver for the risk rating for human health is potential for hazardous ground gases to arise from localised Made Ground and possible organic rich natural deposits on-site. The risk posed to controlled waters is predominantly considered to be LOW due to the low risk of significant contamination identified at the site.
Recommendations	A ground investigation should be undertaken at the site with in-situ testing and laboratory testing of the encountered soils in order to confirm the ground conditions at the site. Interpretation of the ground investigation will be required to assess the nature and extent of soil and groundwater contamination to allow a quantitative risk assessment and updated Conceptual Site Model (CSM) and to assess the ground gas regime. The hydrogeological regime should be assessed regarding depths, finished site levels and flow regimes to assess whether the development may alter the hydrogeology and in turn affect Highfield Moss SSSI.
This summary should be read in conjunction with BWB's full report (ref. PSE-BWB-EGT-XX-RP-YE-0001_Ph1) and reflects an assessment of the site based on information received by BWB at the time of production.	

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1. INTRODUCTION

Instruction

1.1 BWB Consulting (BWB) was instructed by Intermodal Logistics Park (ILP) North Ltd (the Client) to carry out a Phase 1 Geo-Environmental Assessment for the site at Intermodal Logistics Park (ILP) North Strategic Rail Freight Interchange (SRFI), St Helens.

1.2 The proposed development for the proposed development of a Strategic Rail Freight Interchange (SRFI) and associated development at land near Newton-Le-Willows in the boroughs of St Helens, Wigan and Warrington. An application for a Development Consent Order (DCO) will be made to the Secretary of State for Transport.

1.3 The proposed development masterplan is provided as **Appendix 1**. This report focusses on the main areas of redevelopment know as the 'Main Site' and 'Western Rail Chord' of the wider red line boundary of the DCO Site. The wider DCO Site Order Limits are also included as **Appendix 1**.

1.4 To facilitate the development, it is anticipated that a significant earthworks exercise will be required to create suitable development platforms and achieve suitable levels for the SRFI facility.

Objectives

1.5 This report has been completed to present pertinent information into the environmental risks and liabilities associated with the site. It has been completed to fulfil the requirements of a preliminary risk assessment in accordance with BS 10175:2011+A2:2017 *'Investigation of potentially contaminated sites, code of practice'* and EA Guidance on Risk Management of Land Contamination https://www.gov.uk/government/publications/land-contamination-risk-management-lcrm.

1.6 The report has also been prepared with reference to land contamination technical guidance available through https://www.gov.uk/government/collections/land-contamination-technical-guidance.

1.7 The objectives of this report are to:

- Assess historical activities at the site with respect to their potential impact on the site environment;
- Characterise the environmental setting of the site, identify migration pathways and vulnerable receptors for contamination originating at the site, focusing on potential soil and groundwater liabilities;
- Assess historical and current surrounding land use in relation to known or potential off-site contamination issues that may impact the site;
- Review existing site investigation and remediation information for the site, where available; and
- Develop a preliminary Conceptual Site Model (CSM).

Scope of Work

1.8 The scope of work included:

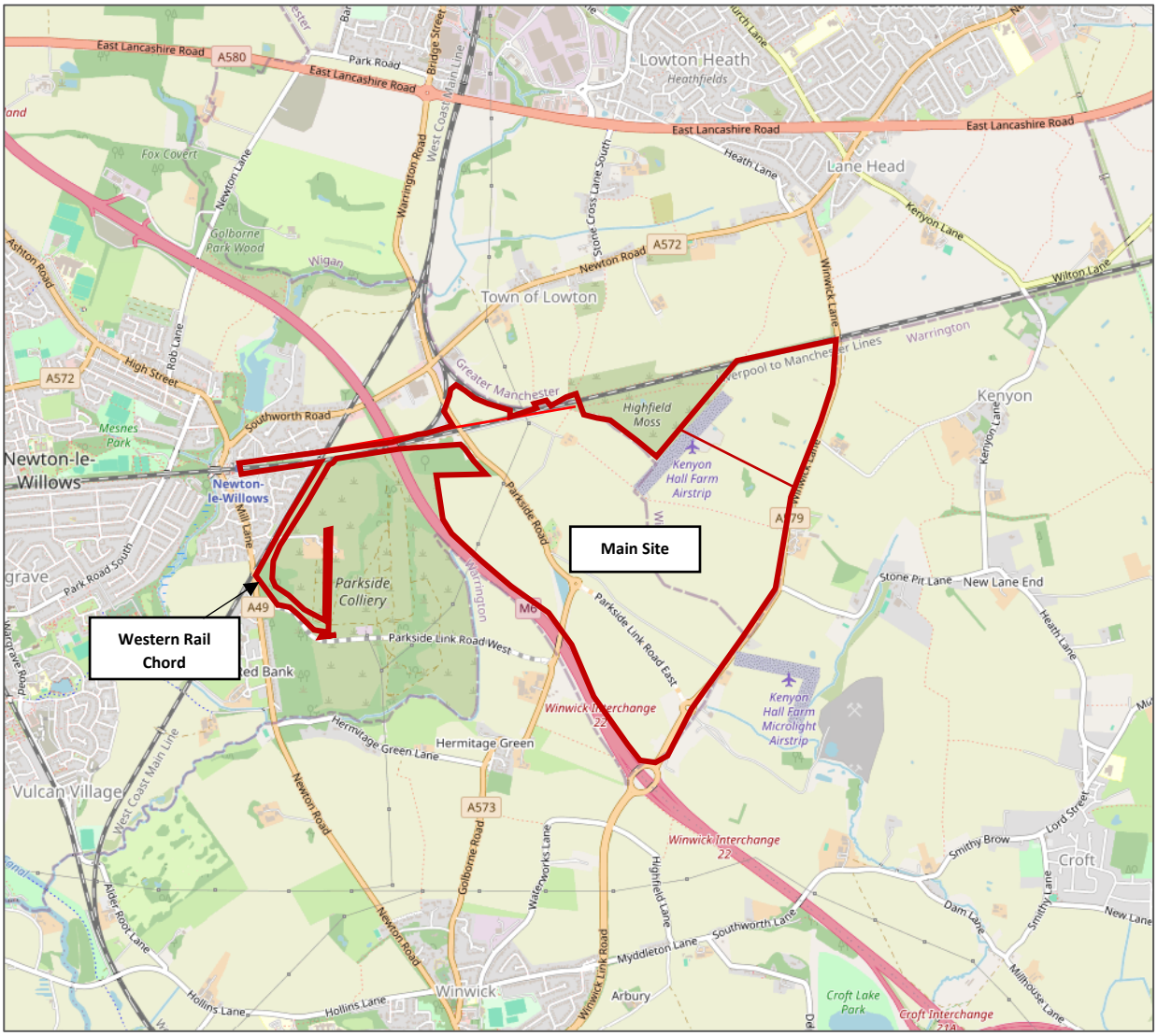
- A site visit to inspect the current site and immediate surroundings, identify potential hazards associated with ground conditions or contamination and to determine potential constraints with regards to ground investigation (photographs presented as **Appendix 2**);
- A review of the following information:
    - Groundsure reports, reference GS-GOZ-A16-EA9-VHN and GS-SUF-6NK-EKV-F2X (**Appendix 2**);
    - Historical Ordnance Survey Mapping (**Appendix 3**);
    - Historical aerial photographs (Google Earth) and other imagery (Groundsure);
    - British Geological Survey (BGS) 1:50 000 Scale, '*Runcorn*', Sheet 97, Drift, (1977); British Geological Survey (BGS) 1:50 000 Scale, '*Runcorn*', Sheet 97, Solid, (1980); British Geological Survey (BGS) 1:50 000 Scale, '*Runcorn*', Sheet 84, Bedrock and Superficial, (2013);
    - BGS online geological maps and exploratory hole records (www.bgs.ac.uk);
    - MAGIC website (www.natureonthemap.naturalengland.org.uk/magicmap);
    - Coal Authority Interactive Map Viewer (http://mapapps2.bgs.ac.uk/coalauthority/home.html);
    - Consultants Coal Mining Report (**Appendix 4**); and
    - Regional unexploded bomb risk maps.
- A summary of the key hazards or uncertainties that require additional investigation in order to further characterise the associated risks; and
- Production of a Geo-Environmental Assessment (this report), concluding in a qualitative assessment of the risks from contamination and ground-related constraints which may impact on the site.

2. THE SITE

Site Location

2.1 The site is located at Intermodal Logistics Park (ILP) North Strategic Rail Freight Interchange (SRFI), in St Helens, centred at National Grid Reference 361107, 394899. The approximate location of the site is shown below in **Figure 2:1**. The draft DCO Order Limits have been extended since this report was originally prepared. No buildings are proposed within the extended order limits.

Figure 2:1: Site Location Plan



Site Description

2.2 The site is an irregularly shaped parcel of land that covers a total area of approximately 200 hectares.

2.3 The Western Rail Chord of the site generally slopes in a southerly direction. The rail track which runs along the northern boundary is within a cutting. The northern edge of the site lies at approximately 34m AOD. This remains consistent before sloping from the centre to an approximate low point of 28m AOD in the far south.

2.4 The Main Site generally slopes gently in a southerly and easterly direction. The elevation is approximately 34m AOD in the north, a high point of 37m AOD centrally, 34/35m AOD in the south and the far east, and 30m AOD in the southeast.

2.5 The Main Site is predominantly utilised for agricultural purposes with sporadic farms/residences within. An area of woodland and ponds are located in the east. The Western Section is predominantly unused and overgrown with vegetation, with a farm within. The site borders a former colliery (Parkside Colliery) immediately to the west.

Site Walkover

2.6 A site walkover of the site was completed on 22/05/2024 by BWB representatives. Photographs from the walkover are presented in **Appendix 5**. **Drawing 1** displays a visual representation of the key features at the site.

Main Site

2.7 At the time of the walkover, the Main Site predominantly comprised open fields used agriculturally. A railway within a cutting, and Highfield Moss Special Site of Scientific Interest (SSSI) bordered the site to the north, the M6 bordered the site to the west and the south, and the A579 bordered the site to the east and the south. Overhead pylons ran throughout, oriented east/west in the north.

2.8 Highfield Farm was located within the northern portion. An airfield strip, comprising a grass landing strip, former Mains Pit pond, and Moss Pits were located in a field adjacent to the Highfield Moss. The airstrip is used by a flying club (Lancs Aero Club), and an adjacent field is used by a model flying club. The former Mains Pit pond had Made Ground visible at the surface. Moss Pits were present within small parcels of woodland, comprising several shallow ponds within a densely vegetated area.

2.9 Another dog training area with gravel parking was present southeast of the airstrip along a footpath towards the A579. Adjacent was an area that had been used recently for a bonfire was observed (circa 5m diameter). On the east boundary near Mains Lane a 10 x 5m area of hardstanding marked the access to the site.

2.10 The northeast section of Main Site (Dolly Bridge) comprises an enclosed field which includes farm structures in its south western corner with the fields used for dog training and was accessed from a dedicated gate off Winwick Lane. Numerous old vehicles and vehicle parts were also present around the farm buildings in various states of disrepair. The ground in this area was approximately 2m higher than the surrounding fields.

2.11 Parkside Farm was located in the centre area. Parkside Road ran adjacent to this, and a tarmacadam, and partially concrete road (Barrow Lane) connected Parkside Road

to the A579, Winwick Lane. Land between Parkside Road and Barrow Lane included newly planted trees and attenuation features.

Western Rail Chord

2.12 The Western Rail Chord was accessible via Newton Park Drive to the west. The general area was heavily vegetated limiting access. Several buildings just off site by the access road were derelict and supported by scaffolding. Some evidence of minor fly tipping was visible off this access road. A footpath running approximately south at the entrance to the Newton Park Farm provided pedestrian access towards the former Parkside Colliery access road. The farm itself was occupied during the walkover and therefore not accessed. Much of this area adjacent to the path was still heavily vegetated and inaccessible.

Potential Constraints to Ground Investigation

2.13 Overhead pylons were running east/west in the north of the Main Site. Local existing buried services are also anticipated near or in close proximity to and within the farms.

2.14 For ground investigation to be undertaken in the Western Rail Chord near Newton Park Farm and the former colliery, some vegetation clearance and/or fence removal will be needed.

2.15 Access and exploratory hole locations would need to be agreed with the current farm occupiers with potential consideration to crops.

Site Surroundings

2.16 The surrounding land uses at the time of the walkover survey are summarised in **Table 2:1**.

Table 2:1: Surrounding Land Use

Surrounding Land Use	
North	A railway within a cutting is located on the northern boundary as well as the Highfield Moss SSSI. Highfield Moss was located to the north, separated by a woodland area and a ditch, which was largely dry at the time of the site visit.
West and South	The M6 Motorway borders the Main Site to the west and south.
East and South	The A579 borders the Main Site to the east and south.

2.17 An aerial photograph representative of the site and surroundings, dated 22/04/2019, is shown within the Groundsure Report presented as **Appendix 2.**

3. ANTICIPATED GROUND CONDITIONS

3.1 The anticipated ground conditions for the site and controlled waters vulnerability are discussed within **Table 3:1**.

Table 3:1: Summary of Anticipated Ground Conditions

Anticipated Ground Conditions	
Geology	Information published by the BGS indicates that the nature of superficial deposits on site vary. The Main Site largely comprises Devensian Till superficial deposits with large areas in the west of the Main Site being absent of superficial deposits. The far north and northeast of the Main Site are underlain by Glaciofluvial Ice Contact deposits (Devensian sand and gravel); a small Lacustrine Deposit also underlies the northeast of Main Site. It is worth noting that peat deposits are mapped within Highfield Moss which is situated immediately to the north of the central section and therefore may extend onto the Main Site. The vast majority of superficial deposits overlie the Chester Formation (sandstone) bedrock. The Kinnerton Sandstone Formation, and the Manchester Marls Formation are located beneath superficial deposits in the west of the Main Site. The Western Rail Chord is similarly mapped to be underlain by a combination of Devensian Till as well as being devoid of superficial deposits. The superficial deposits overlie the Chester Formation bedrock. The BGS Lexicon database describes the Till as unsorted and unstratified drift, which is over consolidated. Consisting of a heterogenous mixture of clay, sand, gravel, and boulders varying widely in size and shape. The Glaciofluvial Ice Contact deposits are described as stratified sand and gravel with interbedded diamicton deposited by meltwater and ice under (subglacial), within (englacial), and at the margins of, glaciers. Glaciofluvial Deposits are described as mostly coarse-grained sediments (i.e. sand and gravel) with some finer-grained layers (i.e. clay and silt). Lacustrine deposits are described as deltaic, lake bottom and shore sediments in lakes. It includes fine-grained sediments (i.e. clay and silt), commonly laminated, and can contain thin layers of organic material or sand. The Chester Formation is described as a from a coarse-grained, typically well-cemented proximal facies, changing to a fine-grained, less well-cemented distal facies northwards. The Kinnerton Sandstone Formation is described as a dominantly aeolian, reddish brown to yellow, generally pebble-free, fine to medium-grained, cross-stratified sandstone. The Manchester Marls Formation is described as a red marl (calcareous mudstone and siltstone) with thin beds of fossiliferous marine limestone and dolomite; locally green; sandy in places especially in top part; local breccias and pebbly beds. There is likely to be a quantity of Made Ground within historically infilled ponds/pits, around the farm locations, and in areas bordering the Railway cutting, the M6 and the A579. Relevant BGS exploratory hole records are summarised within **Table 3:2.** Previous site investigations on or in close proximity to the site boundary recorded ground conditions consistent with those mapped by the BGS database. Several faults are located on site. One runs northwest to southeast through the northern section of the Main Site. Two run north/south through the railway line

Anticipated Ground Conditions	
	in the northwest of Main Site. Another encroaches on the western edge of the Western Rail Chord.
Hydrogeology	The Environment Agency (EA) primarily classifies the Devensian Till as a Secondary Undifferentiated Aquifer; Glaciofluvial Ice Contact deposits are classified as a Secondary A Aquifer; and Lacustrine deposits as unproductive strata. The Chester Formation is classed as a Principal Aquifer, with The Manchester Marls Formation being classed as a Secondary A Aquifer and the Kinnerton Sandstone Formation being classed as a Secondary B Aquifer. As presented in **Table 3:2**, the vast majority of local borehole records did not record groundwater or described them as dry. BGS borehole SJ69NW49 recorded a water strike at 14.30m bgl. An active groundwater abstraction is recorded 500m southeast of site at Southworth Quarry for dewatering. Two active potable abstractions points are located within 1km of site at United Utilities 470m west of site and at 837m east of site. Three pollution incidents relating to contaminated waters have occurred within approximately 150m and 210m of the western site boundary. All had a minor impact on water. The site is indicated to be predominantly within an EA groundwater Source Protection Zone 3 (total catchment), with a small portion of the Western Section being briefly within a Zone 2 (outer catchment). The site is indicated to be within the Lower Mersey Basin and North Permo-Triassic Sandstone Aquifers Water Framework Directive (WFD) groundwater body, which has a poor overall, chemical and quantitative rating. The majority of the site has a negligible to low risk of groundwater flooding, with small areas of moderate risk in the northeast and west of site.
Surface Waters	Several watercourses are located on site; a drain flows alongside Highfield Moss. This feature was noted to be largely dry with localised standing water during the site visit. Newton Brook is located 63m west of site, flowing in a southerly direction Cockshot Brook is located directly east site and also flows in a southerly direction. A further unnamed watercourse is indicated to flow northward (based on site topography) from the railway within the central-northern edge of the site. The following Water Framework Directive (WFD) surface water bodies and surface water body catchments have been identified: • Most of the Main Site is within the Spittle Brook Catchment; it achieved a moderate overall and ecological rating, with a failed chemical rating; • The very northeast of the Main Site is within River Glaze Catchment; it achieved a bad overall and ecological rating, with a failed chemical rating; and • The Western rail Chord is within the Millingford (Newton) Catchment; it achieved a moderate overall and ecological rating, with a failed chemical rating. No surface water abstraction points are located within 1km of the site boundary. There have been thirty-three records of licensed discharges to controlled waters within 500m of the site boundary. The closest was approximately 50m west, relating to sewer storm overflow into Newton Brook.
Ground Gas & Radon	The majority of the site is indicated to be in an area where <1% of properties are above the radon action level, although a small area near the middle of

Anticipated Ground Conditions	
	the Main Site area has a radon risk of between 1-3%. In both cases, no radon gas protection is required. Lacustrine and Peat are superficial deposits that could contain organic materials, acting as a source of hazardous ground gas if the organic content is high. A small section of Lacustrine deposits is mapped in the northeast of the site, with Peat being mapped within Highfield Moss, immediately north of the Main Site. Although they don't appear on the mapping, it is possibly that Peat deposits may well extend onto the site boundary. Localised Made Ground associated with the potentially infilled ponds/pits, in close proximity to farms, the M6 motorway and the railway cutting could also provide a source of hazardous ground gas.
Coal Mining and Mineral Extraction	The site is within a coal mining reporting area as defined by the Coal Mining Authority and within a JPB mining area and coal mining area. There are two records of underground workings recorded beneath the Western Rail Chord which are associated with the former Parkside Colliery. A site-specific Coal Mining Report has been obtained (included as **Appendix 4**) which indicates one mine shaft within close proximity to the Western Rail Chord relating to the former Parkside Colliery (reference 359394-001). This shaft was filled and capped by British Coal in 1994, with a reinforced concrete 15m square and 1m thick cap. It also incorporates a gas vent that is actively monitored monthly by the Mining Remediation Authority. Two historical mine gas incidents have been recorded associated with this. There are nine abandoned mine plan catalogue numbers which intersect with some, or all, of the site boundary. There are many records of past underground mining within the Coal Mining Report. The shallowest of these is at 361m below ground level (bgl) and at this depth is unlikely to present a significant surface instability risk. There has been a previous subsidence claim relating to Coal Mining which was rejected for a parcel of land east of Moss Pits on the Main Site. A sandstone Historical Mineral Planning Area is located 10m southeast of site, Southworth Quarry is located in this area and expected to extract sandstone.
Environmental Sensitivity	The Highfield Moss (located immediately north of the Main Site) is a Site of Special Scientific Interest (SSSI), a Network Enhancement Zone 1, and a Primary Habitat. It is also an area of Open Access Land, and a Priority Habitat (Lowland fens). The following sensitive sites have also been identified: • A large portion of the Main Site is classified as Green Belt land by St Helens, Warrington and Wigan Local Authorities. • Two Nitrate Vulnerable Zones are located on site (Sankey Brook for surface water and Winwick for groundwater). • The Western Rail Chord lies within a Conservation Area for the district of St Helens. • The entire site is within an SSSI Impact Risk Zone. • Two Grade Two listed buildings are located on site. Four others are located within approximately 50m of the site boundary. • The site has an Agricultural Designation which varies between non-agricultural land, Grade 3b, Grade 3a, and Grade 2 land. • There are six records of Tree Felling Licenses on site. • The site has approximately six records of Entry Level plus Higher-Level Stewardship Schemes and one record of Higher-Level Stewardship Schemes on site. • There are approximately eight records of a Countryside Stewardship (Middle Tier) Schemes located on site.

Anticipated Ground Conditions	
	• Areas of Deciduous Woodland are located on site. • An area of Open Mosaic Habitat is located within the Western Rail Chord. The impact on the immediately adjacent Highfield Moss SSSI will need to be considered in the context of the hydrogeological conditions and how the development could alter this.

Table 3:2: BGS Borehole Records

BGS Reference	Date	Ground Level (mAOD)	Depth of Hole (m)	Depth to bedrock (m bgl)	Groundwater Level (m bgl)	Approximate distance to site (m)
SJ69NW7	1952	NR	215	5.80	NR	On-site (Main Site)
SJ69NW108	1985	33.99	765.5	6.00	NR	On-site (Main Site)
SJ69NW17	1956	36.00	470	0.76	NR	On-site (Main Site)
SJ69NW49	1963	NR	33.83	2.4	14.3	On-site (Main Site)
SJ69NW206	1997	33.05	5.00	0.75	Dry	On-site (Main Site)
SJ69NW18	1952	35.1	178	4.16	NR	On-site (Main Site)
SJ69NW21	1951	NR	269.75	7.72	NR	On-site (Main Site)
SJ69NW4	1879	30.69	90.22	NR	12.19	On-site (Main Site)
SJ69SW36	1955	29.10	802.54	0.60	NR	On-site (Main Site)
SJ59NE43	1956	34.00	128	0.30	NR	On-site (Western Rail Chord)
SJ69NW5	1893	30.33	139.45	NR	12.19	5 (north of Main Site)
SJ69SW35	1955	39.00	158.5	2.40	NR	70 (west of Main Site)
SJ69SW1306	1997	28.73	1.10	0.50	Dry	135 (south of Main Site)
SJ69SW1307	1997	28.63	0.70	0.50	Dry	35 (south of Main Site)
SJ69SW1308	1997	35.04	3.00	NE	Dry	105 (south of Main Site)
SJ69SW1311	1997	29.84	0.80	0.70	Dry	75 (south of Main Site)
SJ69NW19	1952	NR	219.46	1.98	NR	125 (south of Main Site)
SJ69SW1266/6621	1993	31.016	30.00	NR	NR	5 (southeast of Main Site)
SJ69SW1440	1993	31.016	30.00	NR	NR	5 (southeast of Main Site)
SJ59SE36	1980	30.22	810	0.61	NR	90 (east of Western Rail Chord)

4. SITE HISTORY

4.1 Historical Ordnance Survey (OS) mapping for the site area has been reviewed. These maps and plans date from 1849 to 2024. The historical plans reviewed are provided in **Appendix 4**. The key points of the historical development of the site and surrounding area are summarised in **Table 4:1**. All distances quoted are approximate. **Drawing 1** displays the main features at the site.

Table 4:1: Key Points of Development History

Dates	On Site	Off-Site
1849-1956	All sections site formed part of open agricultural fields with sporadic farms/residences/***ponds***. A **RAIL LINE** within a cutting ran east/west through the very north of the site, with associated infrastructure. **MAINS PITS** and **MOSS PITS** were located in the east of the Main Site. From 1906 to 1956, a **TANK** was located in the far north, just off the railway line. From 1938, the **MAINS PITS** were no longer present, being possibly **INFILLED**.	The surrounding area was similarly used as open agricultural land, with sporadic villages, farms, and residences. A **RAILWAY LINE** was located on the western and northern site boundary. Several small collections of ponds were located between Western Rail Chord and Main Site areas of the site. A sandstone **QUARRY** was located immediately south of the Main Site until 1891. '**MAINS PITS'** (different to those with the same name on site) were located 500m southeast of site. A **SAND PIT** was located immediately east of the Main Site (but is absent by 1925). The Island Plantation was located 750m southeast of the Main Site. The **BLACK PITS** were located 350m northeast of the Main Site until 1929. Highfield Moss was located immediately north of the northern site boundary. From 1892, a **PAPER MILL/WORKS** with a **TANK** was located approximately 150m west, and a **PRINTING WORKS** approximately 50m north of the site boundary. Also, a **SEWAGE WORKS** was located approximately 500m west. From 1906 until 1956, a **WATER WORKS** was located approximately 250m north. A **TANK** was also located immediately north of the Western Rail Chord.
1964 - 2024	By 1965, several small ponds in the northeast of Main Site are not indicated and potentially **INFILLED**. By 1977, more ponds in the northeast are no longer indicated and possibly **INFILLED**. By 2024, ponds in the far northwest and northeast of the Main Site, were no	The **M6 MOTORWAY** was located immediately west of the Main Site. The **WATER WORKS** was no longer present. Another **UNSPECIFIED WORKS** were located approximately 50m north. The **PAPER MILL/WORKS** were now labelled disused and **SEWAGE WORKS** were no longer labelled. A neighbouring **COLLIERY** was located adjacent to the Western Rail Chord, in replacement of ponds that were located here. This had various **TANKS**, pylons and **SUBSTATIONS** within.

Dates	On Site	Off-Site
	longer present and possibly **INFILLED**.	By at least 1972, an **ELECTRICITY SUBSTATION** was located at Parkside Colliery, approximately 130m east of the Western Rail Chord. From 1977, a **MOTORAIL TERMINAL DEPOT**, **GARAGES** and various unnamed **WORKS** were located adjacent to the northwestern boundary. From 1994, the **PRINTING WORKS** was no longer present. From 2010, several ponds were located between the 600m southeast between **MAINS PITS** and the Island Plantation. By 2024, the number of ponds had reduced, being possibly **INFILLED**.

Historical Aerial Photography and Imagery

4.2 Aerial photographs/imagery available through Google Earth and included within the Groundsure report are summarised in **Table 4:2**.

Table 4:2: Summary of Aerial Photography

Date (Source)	Description
04/09/2000 – 01/03/2024 (Groundsure and Google Earth)	The site is shown as agricultural land with sporadic farm/residences. The M6 runs north to south centrally, with two rail lines, on the west and north boundaries. Parkside Colliery was located in close proximity to the Western Rail Chord. Gaskell Bros WM&C Ltd quarry was located to the southeast of site. By 2012, the land used for the Kenyon Hall Farm Airstrip (GB-0734) appears to have been cleared, though it is unclear when the airstrip is first operational. A small building is present in the northeast of site (noted on the walkover as a dog training facility). By 2021, small plant and vehicles are present around the dog training facility in the northeast.

Operational / Company Records

4.3 No operational records have been made available for review as part of this assessment.

Planning History

4.4 The St Helens Council, Wigan Council and Warrington Council Planning Portal was accessed on 23/05/2024 and indicated that several pertinent planning applications have been submitted. Relevant reports are discussed in **Section 5**.

Internet Search / Anecdotal Information

4.5 An online search for background/historical information relating to the current / historical site use was undertaken, with pertinent information detailed in **Table 4:3**.

Table 4:3: Summary of Online Information

Source	Description
Parkside Colliery: Government approves regeneration plan - BBC News (last accessed 21/05/2024)	The webpage displays a regeneration plan and highlights that Parkside Colliery had closed by 1992.

Summary of Site History

4.6 The site has remained predominantly undeveloped, comprising agricultural fields with several farms/residences and ponds noted throughout its mapped history. A rail line runs east/west in the far north of the site, and a tank was mapped adjacent to this, from 1906 to 1956. Several ponds which are no longer displayed on mapping or observed on site have the potential to have been infilled. In the 21st-century, a grass airstrip opened southeast of Highfield Moss. A small area of the former Parkside Colliery encroaches the Western Rail Chord.

4.7 The site surroundings were similarly used as predominantly agricultural land throughout the mapped history. Several industrial processes and sandstone quarrying activity is noted throughout the surrounding areas mapped history. Parkside Colliery was mapped from 1964, which is immediately adjacent to the Western Rail Chord and Gaskell Bros WM&C Ltd quarry is located to the southeast of the Main Site.

5. PREVIOUS INVESTIGATIONS

5.1 The following information provides a summary of information reviewed in relation to previous investigations at the site:

Available Information

5.2 Information relevant to the site or surroundings has been reviewed from documents available through St Helens Council, Wigan Council and Warrington Council Planning Portal planning portal for the following application numbers:

- P/2006/1296;
- P/2018/0249/FUL;
- P/2018/0048/OUP;
- P/2019/0199/LBC; and
- P/2023/0403/FUL.

5.3 From the above applications, the following relevant documents were reviewed:

- Soakaway Assessment Report, by Waterman Civils Consulting Engineers for *Parkside SRFI*, dated November 2007;
- Investigation of Imported Material, Parkside Colliery, by Wardell Armstrong for Addleshaw Booth & Co, dated January 2000;
- Eastern Spoil Tip, Investigation of Imported Materials, by Wardell Armstrong for Addleshaw Booth & Co, dated July 2000;
- Ground Investigation at Parkside Colliery, Newton Le Willows Feasibility Assessments, by Geotechnics, for Astral Developments Limited, dated October 2004;
- Parkside Regeneration Preliminary Geoenvironmental Assessment, by Cundall, for Parkside Regeneration LLP, dated June 2017;
- Phase 1 Site Appraisal for the Land to the east of Newton Park Drive, Newton Le Willows, by Patrick Parsons, for Oaktree Developments, dated January 2019;
- Parkside Regeneration Phase II Geotechnical and Geoenvironmental Assessment, by Cundall for Parkside Regeneration LLP, dated June 2023; and
- Phase 2 Investigation, Parkside East, St Helens, by RoC Consulting for Harworth Estates Property Group Ltd, dated July 2023.

5.4 A summary of the key information contained within each of the documents reviewed is provided below:

On Site Reports

Soakaway Assessment Report, by Waterman Civils Consulting Engineers

5.5 A ground investigation comprised of nineteen machine-dug trial pits, five soakaway tests and laboratory chemical analysis of soil was undertaken in the central part of the Main Site.

5.6 The encountered ground conditions were consistent with that of BGS mapping. Made Ground was only found at one location. Records from the investigation suggested that Glacial Till deposits are possibly shallower towards the southwest, with Glacial Till deposits found further to the north being of possibly thicker deposition.

5.7 A groundwater strike was recorded within the Glacial Till at 2.1m bgl, rising by 175mm after 20 minutes and to 1.40mbgl after 3.5 hours.

5.8 It was considered that no contamination, which was harmful to human or plant, was evident and therefore no remediation strategy was recommended.

5.9 The infiltration rates characteristics displayed a low permeability classification, which suggested that although feasible, infiltration rates would be slow.

Factual Ground Investigation and Laboratory Geotechnical Test Results, Phase 2, by Wardell Armstrong

5.10 The accessible information only displays exploratory hole locations logs. The encountered conditions were consistent with the published ground conditions.

Phase 2 Investigation, Parkside East, St Helens, by RoC Consulting for Harworth Estates Property Group Ltd

5.11 A ground investigation was undertaken for the western section of the Main Site, between the M6 and Parkside Road. The works included seven rotary cored boreholes between 15m bgl and 20m bgl; sixteen machine excavated trial pits between 1.50m and 2.40m bgl; fourteen cone penetration tests between 1.02m and 2.72m bgl; and nine plate load tests.

5.12 Site investigation indicated soil typically comprised topsoil to 0.40m bgl; clay soils (Devensian Till) in the southeast of site to an average 0.90m bgl; weathered sandstone bedrock (Chester Formation or Kinnerton Sandstone Formation), underlying the topsoil or Devensian Till where present; in-tact bedrock of Chester Formation or Kinnerton Sandstone Formation to 1.55m bgl in the southeast or 2.55m bgl in the northwest.

5.13 Topsoil with inclusions of brick and plastic were logged at some locations. Laboratory testing indicated Made Ground soils were suitable for disposal at inert landfill sites.

5.14 The groundwater strikes could not be recorded due to use of rotary drilling methods, however, resting water levels ranged between 7.14 and 9.43m bgl (in summer months, therefore these may rise in winter).

5.15 The Preliminary Conceptual Site model and consequent intrusive investigations did not highlight any potential sources of ground gas, so it was not assessed.

5.16 Given the anticipated concrete pad foundations, it was noted a significant foundation depth may be required to penetrate the proposed fill depth in some locations (to have achieved the proposed development platform levels). The Devensian Till and weathered bedrock were likely to have provided suitable support for foundations. It was

also advised that differential settlement required consideration for areas of deep fill with piled foundations also being suitable.

5.17 Testing for aggressive ground conditions indicated a DS class of DS-1 and ACEC class of AC-1 is suitable for the site.

5.18 Chemical soil assessment did not indicate any sources of soil contamination when compared with a commercial end use scenario.

Off Site

Investigation of Imported Material, and Eastern Spoil Tip, Investigation of Imported Materials, Parkside Colliery, two reports by Wardell Armstrong for Addleshaw Booth & Co

5.19 The first report targeted stockpiles of material that were imported to provide for access security. An investigation comprised ten trial pits and chemical testing.

5.20 The second report focussed on the capping layer that was placed on the eastern colliery stockpile for restoration purposes.

5.21 Both reports concluded that the imported material displayed no evidence of any hazardous material and therefore was not considered to represent a hazard to the environment.

Ground Investigation at Parkside Colliery, Newton Le Willows Feasibility Assessments, by Geotechnics, for Astral Developments Limited

5.22 This was a factual report that recorded a ground investigation on the site of the former Parkside Colliery (twelve trial pits and three boreholes). No interpretation was available. In undeveloped areas, the ground conditions from the exploratory hole logs were consistent with BGS mapping. In areas of colliery spoil, deep Made Ground was encountered, with bottom depth ranging between 8.80-16.90m bgl.

Parkside Regeneration Preliminary Geoenvironmental Assessment, by Cundall, for Parkside Regeneration LLP

5.23 This report was a desk-based assessment that summarised the previous intrusive investigations in relation to the former Parkside Colliery. The report covered some similar information as this document and is therefore not repeated here.

Phase 1 Site Appraisal for the Land to the east of Newton Park Drive, Newton Le Willows, by Patrick Parsons, for Oaktree Developments

5.24 The report covered some similar information as this document and is therefore not repeated here.

Parkside Regeneration Phase II Geotechnical and Geoenvironmental Assessment, by Cundall for Parkside Regeneration LLP

5.25 A ground Investigation was undertaken on the former Parkside Colliery site. It included nine cable percussion with rotary coring follow on boreholes to depths ranging between 15m bgl and 30m bgl, twenty-one dynamic sampling with rotary coring follow on boreholes to depths ranging between 10m bgl and 30m bgl, eighty-nine machine excavated trial pits to a maximum depth of 5m bgl, fifty-one hand excavated trial pits to a maximum of 1.20m bgl, nine trial trenches were undertaken targeting the suspected location of the Winwick Fault, and nine rounds of gas and groundwater monitoring over a nine-month period in fifteen exploratory hole locations.

5.26 The encountered ground conditions were consistent with that of the BGS mapping.

5.27 Made Ground was encountered beneath topsoil in several locations. Thicknesses of Made Ground ranged between 0.2-1.6m. Groundwater monitoring showed water level to range between 22.7m and 38.9mAOD in elevation.

5.28 Monitoring results classified the site as Characteristic Situation 1 (CS-1). A single round of monitoring was completed to confirm previous investigation results. Fourteen installations were constructed with a range of shallow and deep response zones.

5.29 Design sulphate class for concrete was considered as DS-2, ACEC AC-1 for all buried concrete in contact with Made Ground, and DS-1, ACEC AC-1 for buried concrete in contact with natural soils and rock.

5.30 A variation of foundation solutions was recommended based on the different ground conditions encountered.

5.31 Contamination exceedances for Arsenic, Chromium III, Lead, Mercury, Nickel, Zinc, Cyanide, Selenium and PAHs were recorded in relation to the former Parkside Colliery Site. All exceedances were within one order of magnitude. Nine instances of asbestos at trace levels were detected.

6. REGULATORY SETTING

Permits Consents and Authorisations

6.1 A full listing of permits, consents and authorisations including discharge consents, pollution incidences and other environmental information, is included in the Groundsure report, presented in **Appendix 2**. The following pertinent features have been identified which have the potential to have a detrimental impact on site:

- A petrol station approximately 50m west of the site. There is also another approximately 200m northwest;
- Approximately fourteen historical garages within 500m. Eleven of these records are within approximately 50m;
- Licensed industrial activities and a licensed pollutant release southeast of site at Southworth and Borrow Pit (Gaskell Brothers WM&C Ltd);
- An additional three licensed pollutant releases within approximately 70m of the site;
- Twenty-nine licensed discharges to controlled waters within 500m. The closest being approximately 50m west; and
- Nine pollution incidents within 500m.

Landfilling and Waste Management

6.2 A full listing of EA, BGS and Local Authority recorded landfills are provided in the Groundsure report presented in **Appendix 2**. The following facilities have been identified which have the potential to have a detrimental impact on site.

6.3 Four landfill sites were identified within 500m of the site, as detailed in **Table 6:1**.

Table 6:1: Historical Landfill Sites

Name	Distance from Site	Details
Gaskell Bros (Wm. & C.) Limited	500m southeast	Accepts inert waste.
Gaskell Bros (Wm. & C.) Limited	500m southeast	Accepts non-biodegradable wastes.
Borrow Pit, Waterworks Lane, Winwick, Warrington	25m southeast	Accepted inert, industrial waste since 1968 until an unknown date.
Southworth Road	25m northwest	Accepted unknown waste from 1955 until 1965.
Newton Brook Street	145m west	Accepted unknown waste from 1961 until 1971.

6.4 Two licensed waste sites have been recorded within 300m of the site boundary west at McFall Salvage Co Ltd and southeast at Southworth Quarry.

6.5 Sixty-four waste exemptions have been recorded within 500m of the site. Three are recorded within the site boundary. The following exemptions have been identified:

- Storage of waste in a secure place (on-site);
- Use of waste for a specified purpose (on-site);
- Spreading of waste on agricultural land to confer benefit (on-site);
- Use of waste in construction;
- Deposit of waste from dredging of inland waters;
- Aerobic composting and associated prior treatment;
- Treatment of waste wood and waster plant matter by chopping, shredding, cutting or pulverising;
- Deposit of waste consisting of plant tissue under a Plant Health notice;
- Burning of waste in the open;
- Storing of waste in secure containers;
- Crushing and emptying waste vehicle oil filters;
- Recovery of scrap metal; and
- Storage of sludge.

6.6 Waste exemptions are generally granted for small low-risk waste activities. Where these are granted for off-site activities, they are not considered significant in the context of the site and the proposed scheme. While exemptions for on-site should not be disregarded, it is likely that they are of limited significance if the exemption conditions have been complied with.

7. GEOTECHNICAL APPRAISAL

7.1 The Groundsure report, site history, current site setting and geology setting have all been considered in order to provide an indication of the potential ground related constraints and opportunities in the context of the proposed development as set out in **Table 7:1**.

Table 7:1: Ground Related Constraints & Opportunities

Potential Constraint / Opportunity	Explanation	Potential Mitigation Options
Topsoil / Made Ground	Topsoil is expected to be present across the majority of the site. Limited Made Ground is expected to be present along the railway cutting, roads, paths, close proximity to the colliery, possibly infilled ponds and surrounding farm developments.	Topsoil and Made Ground may be suitable for reuse on site, subject to confirmation of chemical status and engineering properties via ground investigation, and confirmation of potential restrictions on reuse associated with waste management licencing.
Preliminary Foundation Solution	Earthworks will be required at the site to create development plateaus for the warehouse units. Following the earthworks, a shallow spread foundation in the majority of site is likely to be viable for the proposed developments if fill material is placed to an appropriate engineering specification. Varied foundation and ground improvement options could be adopted dependant on the encountered ground conditions.	Ground investigation should be undertaken to confirm ground conditions at the site and allow for in-situ and laboratory testing to inform earthworks and foundation design. Detailed geotechnical assessment will be required to assess the optimal geotechnical design solutions was the layout of the site and earthworks are known.
Buried Obstructions	Given the historical uses of the site there is limited potential for buried obstructions such as services and former foundations, but these may be present in the vicinity of farms and potentially colliery buildings.	Buried obstructions may require removal from site within areas of proposed development.
Trees	Mature trees were noted on site, along the site boundaries and scattered around the site.	Foundations in close proximity to new or existing trees may need to be locally deepened beyond the zone of influence of tree roots and/or heave precautions adopted.
Pyritic Geology	Ground conditions could be pyritic in places where the Manchester Marls Formation is encountered. Pyritic ground could also be found in relation to the colliery spoil.	As part of ground investigation works, appropriate testing should be undertaken in relation to aggressive ground conditions.
Ground Subsidence Risks	The Groundsure Report indicates a low to negligible risk on site associated with shrink/swell clays and running sands. A negligible to high risk of compressible deposits are dependent on the extent of peat. A negligible to very low risk of collapsible deposits is	Ground investigation should seek to assess the plasticity of cohesive soils and assess whether peat extends outside of Highfield Moss SSSI. The general ground conditions across the site should also be confirmed by ground investigation so that instability

Potential Constraint / Opportunity	Explanation	Potential Mitigation Options
	recorded. A very low to moderate risk of landslides are recorded. A negligible risk of ground dissolution of soluble rocks is mapped.	risk can be considered and mitigated during design.
Coal Mining	Coal is not expected to be present within shallow soils due to deep coal seams (as noted in **Appendix 4**).	No further assessment required.
Calorific Materials	Coal within Made Ground and/or colliery spoil may be present in the eastern area of the site which could have a high calorific value and therefore present a combustion risk.	The potential for coal and high calorific values should be assessed by ground investigation.
Earthworks	The proposed development is expected to include changes to site levels.	Ground investigation should include specific laboratory earthworks testing to inform an Earthworks Specification which should be completed prior to any earthworks.
Drainage and Soakaways	At this stage, the Masterplan is expected to include attenuation basins to manage drainage of surface water. Based on the indicated ground conditions soakaway drainage solutions are likely to be viable.	Infiltration testing should be completed in accordance with current guidance once potential attenuation pond locations and levels are better known to inform drainage design.
Roads and Pavements	California Bearing Ratio (CBR) values should be sought for road, car park and pavement design.	In-situ testing should be undertaken to infer CBR values. Furthermore, geotechnical testing should be undertaken to provide consistency of results.
UXO	Review of the unexploded ordnance risk maps available online indicates the site to be in an area of low risk from UXO.	No further assessment required.

8. PRELIMINARY ENVIRONMENTAL RISK ASSESSMENT

Introduction

8.1 The risk posed by any contaminants in soil or groundwater will depend on the nature of the hazard, the probability of exposure, the pathway by which exposure occurs, and the likely effects on the receptors. A contaminant is defined as a substance that has the potential to cause harm, while a risk is considered to exist if such a substance is present in sufficient concentration to cause harm and a pathway exists for a receptor to be exposed to the substance.

8.2 Three impact potentials exist for any given site, all of which need to be considered in a risk assessment, which are:

- The site impacting upon itself;
- The site impacting on its surroundings; and
- The surroundings impacting on the site.

8.3 The following sections discuss all the identified potential on and off-site sources, pathways and receptors in the context of the proposed development and plausible contaminant linkages which may represent a risk to identified receptors such as human health and/or controlled waters from the data gained from the desk study.

8.4 The assessment is qualitative and aimed to determine all likely contaminant linkages, with consideration of significance and allowing for uncertainties.

8.5 **Sources (S):** These are potential or known sources of contamination that may relate to a former land use or present site feature or process (e.g. fuel storage tanks).

8.6 **Pathways (P):** A pathway is defined as a mechanism or route by which a contaminant comes into contact with, or otherwise affects a receptor. Pathways by which the identified receptors may be impacted upon in the context of the proposed development.

8.7 **Receptors (R):** Receptors are defined as people, living organisms, ecological systems, controlled waters, atmosphere, structures and utilities that could be adversely affected by contaminant(s).

Conceptual Site Model

8.8 Consideration has been given to the likely sources, pathways and receptors which may be present, based on the information in the previous sections. These are presented in **Table 8:1** and **Table 8:2** and further information about the risk classification scheme is included within **Appendix 6**, with reference to CIRIA C552 '*Contaminated land risk assessment - a guide to good practice*'.

8.9 A tabulated version of the Preliminary CSM based on the desk study and site observations is presented in **Table 8:3**.

Table 8:1: Potential Sources of Contamination

Location	Potential Source	Contaminants of Potential Concern (CoPC)
On-site	Localised **MADE GROUND** associated with the historically potentially infilled ponds/pits, in close proximity to farms, the M6 motorway and the railway cutting	• Heavy metals • Inorganics, such as cyanides, sulphates and nitrates • pH • Asbestos Containing Materials (ACMs) • Volatile organic compounds (VOCs) • Semi-volatile organic compounds (SVOCs) including phenols and polycyclic aromatic hydrocarbons (PAHs) • Petroleum hydrocarbons • Methane, carbon dioxide
	AGRICULTURAL WORKS carried out throughout the site, including use of **FARM EQUIPMENT**, **FUEL STORAGE** and practices covered under **WASTE EXEMPTIONS**.	• Inorganics, such as cyanides, sulphates and nitrates • pH • Pesticides & herbicides • Petroleum hydrocarbons
	MADE GROUND and **CONTAMINATION** associated with the former colliery works	• Heavy metals • Inorganics, such as cyanides, sulphates and nitrates • pH • Asbestos Containing Materials (ACMs) • Volatile organic compounds (VOCs) • Semi-volatile organic compounds (SVOCs) including phenols and polycyclic aromatic hydrocarbons (PAHs) • Petroleum hydrocarbons • Highly calorific materials • Methane, carbon dioxide
Off-site	**CONTAMINATION** associated with the surrounding industrial activity, historical tanks, petrol station, garages, pollution incidents, licensed discharges to controlled waters, and licensed pollutant releases	• Heavy metals • Inorganics, such as cyanides, sulphates and nitrates • VOCs • SVOCs • PAHs • Petroleum hydrocarbons
	MADE GROUND associated with the quarries, landfills, historical and waste sites surrounding the site.	• Heavy metals • Inorganics, such as cyanides, sulphates and nitrates • pH • ACMs • VOCs • SVOCs • PAHs • Petroleum hydrocarbons • Methane, carbon dioxide

Location	Potential Source	Contaminants of Potential Concern (CoPC)
	The historical **ELECTRICITY SUB-STATION** may give rise to organic contamination within soils.	• Polychlorinated biphenyls (PCBs)

Table 8:2: Relevant Potential Pathways and Receptors

Receptors	Pathways
Human Health: • Future site users (commercial) • Neighbouring public (residential/commercial) • Intrusive maintenance workers	• Dermal contact with soil or dust • Incidental ingestion of soil and/or dust • Inhalation of dust and/or fibres • Ingestion of contaminated vegetables and/or soil attached to vegetables • Inhalation of vapours • Migration and accumulation of ground gas in enclosed spaces leading to inhalation or explosion
Controlled Waters: • Groundwater (Principal Aquifer, Secondary A, B and Undifferentiated Aquifer, active groundwater abstraction point, Groundwater Source Protection Zones, WFD Groundwater Body) • Surface water (Cockshot Brook and unnamed inland river)	• Leaching of soil contaminants • Vertical and lateral migration • Surface run-off
Ecology: • Flora and Fauna • SSSI/Green Belt	• Lateral migration • Uptake and accumulation
Property: • Underground utilities • Building structures	• Direct Contact • Accumulation and explosion of gas

8.10 A number of potential sources of contamination, identified during the review, are not considered likely to impact on the site. These are detailed below, along with the appropriate justification for not being included within the preliminary CSM:

- Possibly historically infilled ponds in the surrounding area; due to the distance from site and the expected cohesive geology at the site;
- Quarrying activity in the surrounding area; due to the distance from site and the expected cohesive geology at the site;
- The historical sewage works was located approximately 500m west; and
- The historical water works, paper mill/works, unnamed works, tanks and motorail terminal depot within the surrounding area of the western site, due to proximity and the development type in this area.

Table 8:3: Preliminary Conceptual Site Model

Source	Pathway	Receptor	Con	Prob	Risk	Potential Mitigation/Investigation Requirements
On-site sources as detailed in **Table 8:1**.	Dermal contact with, and incidental ingestion of soil and/or dust. Inhalation of dust and/or fibres.	Future site users (commercial)	Md	Ul	L	As part of the proposed development, it is anticipated that hardstanding will be present across the majority of the site. This will limit the potential for direct contact with, and minimise dust generation from, potentially contaminated soils at the site post construction. In public open space/landscaped areas the provision of a clean capping layer would restrict direct access to potentially contaminated soils. It is recommended that an intrusive ground investigation be completed to assess the extent of any potential contamination at the site.
		Intrusive maintenance workers	Md	Ul	L	The exposure of intrusive maintenance workers can be mitigated by the adoption of suitable working methods, utilising appropriate personal protective equipment (PPE) and maintaining good hygiene. If significant asbestos is recorded, the requirements of the Control of Asbestos Regulations (CAR) 2012 should be complied with.
	Inhalation of vapours.	Future site users (commercial)	Md	Ul	L	If elevated concentrations of volatile contaminants are identified during ground investigation works, potential sources of vapours such as Made Ground and contaminated soils/groundwater could potentially be mitigated through removal or treatment prior to construction, or the installation of protection measures may be required during construction to mitigate the potential risk to future site users from vapours.
	Migration and accumulation of ground gases in enclosed spaces leading to asphyxiation (carbon dioxide) or explosion (methane).	Future site users (commercial)	Sv	Ul	M/L	Lacustrine deposits are reported to be present in the northeast of the Main Site. Peat, mapped within the Highfield Moss has the potential to extend onto the site boundary. Both of these soils may contain organic material. Limited Made Ground is expected across the site but may be present within the potentially historically potentially infilled ponds/pits, in close proximity to farms, the M6 motorway and the railway cutting. The presence of the above indicates a potential risk from ground gases. Ground investigation should include the installation of ground gas monitoring wells to assess the risk posed from ground gases. The possible presence of gases related to mine workings in the Western Section are considered unlikely to affect the proposed development in this area as no buildings are currently proposed.

Source	Pathway	Receptor	Con	Prob	Risk	Potential Mitigation/Investigation Requirements
	Leaching and permeation through soil profile.	Groundwater: Underlying Principal Aquifer and Source Protection Zones	Md	UI	L	A significant source of contamination has not been identified at the site. The risk should be quantified through appropriate ground investigation and risk assessment.
	Vertical and lateral migration of contaminants.		Md	UI	L	
	Surface run-off.	Cockshot Brook and unnamed inland river	Md	UI	L	
	Direct contact.	Water utility pipes	Md	UI	L	Organic compounds in the shallow soils could taint the water supply. A ground investigation and subsequent laboratory analysis should be undertaken to inform the design of new services.
		Electricity Cable	Md	UI	L	Cables placed in highly calorific soils could present a combustion risk. Ground investigation should be undertaken to assess the risk.
		Buried structures/ foundations.	Md	UI	L	Sulphates and low pH in the ground could accelerate the degradation of buried concrete structures (e.g. foundations). Ground investigation should include an assessment of the concrete design class. The Manchester Marls Formation underlying the superficial deposits and possible colliery spoil in the west on site has the potential to accelerate the degradation of buried concrete structures.
	Migration and accumulation of ground gases in enclosed spaces leading to asphyxiation (carbon dioxide) or explosion (methane).	Future site users (commercial)	Sv	UI	M/L	Ground gas monitoring should be completed as part of an intrusive ground investigation in order to characterise the ground gas regime at the site. Where possible, monitoring wells should be located along the site boundaries in order to delineate any potential contamination.
	Lateral migration of contaminated groundwater.	Groundwater: Underlying Principal Aquifer and Source Protection Zones	Md	UI	L	Several localised sources of potential contamination were identified adjacent to the site, which could possibly migrate towards site. Intrusive ground investigation should be undertaken to quantify the risk. It is expected that the partial cohesive ground conditions in some areas will minimise groundwater migration from off-site, however, this should be confirmed

Source	Pathway	Receptor	Con	Prob	Risk	Potential Mitigation/Investigation Requirements
						through ground investigation. Where possible, groundwater monitoring wells should be located along the site boundaries in order to delineate any potential contamination.
Off-site sources as detailed in **Table 8:1**.	Inhalation of vapours.	Future site users (commercial)	Md	UI	L	If elevated concentrations of volatile contaminants are identified during ground investigation works further delineation may be required to identify the source in order to design appropriate mitigation measures.
		Intrusive maintenance workers	Md	UI	L	
	Migration and accumulation of ground gases in enclosed spaces leading to asphyxiation (carbon dioxide) or explosion (methane).	Future site users (commercial)	Sv	UI	M/L	Ground gas monitoring should be completed as part of an intrusive ground investigation in order to characterise the ground gas regime at the site. Where possible, monitoring wells should be located along the site boundaries in order to delineate any potential contamination.
	Lateral migration of contaminated groundwater.	Groundwater: Underlying Principal Aquifer and Source Protection Zones	Md	UI	L	Several localised sources of potential contamination were identified adjacent to the site, which could possibly migrate towards site. Intrusive ground investigation should be undertaken to quantify the risk. It is expected that the partial cohesive ground conditions in some areas will minimise groundwater migration from off-site, however, this should be confirmed through ground investigation. Where possible, groundwater monitoring wells should be located along the site boundaries in order to delineate any potential contamination.

VH = Very High, H = High, M = Moderate, M/L = Moderate/Low, L = Low, VL = Very Low

KEY: Sv = Severe, Md = Medium, Mi = Mild, Mr = Minor, Hi = High, Li = Likely, Lw = Low Likelihood, UI = Unlikely

Contaminant linkage Assessment Summary

When considered in the context of the conceptual site model and the historical activities that have taken place (farming activities), the proposed development is considered to pose a **MODERATE/LOW** risk to human health. It is considered that the main driver for the risk rating for human health is potential for hazardous ground gases to arise from localised Made Ground and possible organic rich natural deposits on-site.

The risk posed to controlled waters is predominantly considered to be **LOW** due to the lack of significant contamination identified at the site.

It is recommended that a ground investigation be undertaken to quantify the identified pollutant linkages and assess likely mitigation measures.

9. CONCLUSION AND RECOMMENDATIONS

Conclusions

9.1 The site is located to the east of Newton Le Willows, and the Main Site is accessed via the A579 to the south and the A573 to the north.

9.2 The proposed development comprises a new SRFI, serviced by a new rail freight terminal, and associated development. The development is expected to include ancillary office space, new access, car parking, servicing, boundary treatments, hard and soft landscaping, drainage works and other associated development (see proposed plan attached as **Appendix 1**).

9.3 The site has largely remained undeveloped comprising open fields with several farms/residences and ponds noted throughout its mapped history. A rail line runs east/west in the far north of the site and beyond. Several possibly infilled ponds are located on site, and a grass airstrip (used by a flying club) is adjacent to Highfield Moss. Southeast of the airstrip is a dog training site adjacent to an where recent burning/a bonfire had occurred; another dog training site which included old vehicle parts were present in the northeast of site. The former Parkside Colliery encroaches the Western Rail Chord slightly.

9.4 The site surroundings were similarly used as predominantly agricultural land throughout the mapped history. Several industrial processes and sandstone quarrying activity is noted throughout the surrounding areas mapped history.

9.5 The Main Site has areas underlain by Devensian Till deposits with other sections being devoid of any superficial deposits. In the far northeast of the Main Site, Glaciofluvial Ice Contact deposits are mapped, and in the very northeast, both small sequences of Glaciofluvial Ice Contact deposits and Lacustrine Deposits are mapped. Peat deposits are mapped within Highfield Moss (immediately to the north) and may extend onto the site. The vast majority of superficial deposits overlie the Chester Formation (sandstone) bedrock. The Kinnerton Sandstone Formation, and the Manchester Marls Formation are located beneath superficial deposits in the west of the Main Site area.

9.6 The Western Rail Chord is similarly mapped as a mixture of superficial Devensian Till, with some areas being devoid of superficial deposits. The majority of this area is underlain by bedrock of the Chester Formation, with the eastern edge indicated to be underlain by the Manchester Marls Formation.

9.7 BGS mapping does not indicate the presence of Made Ground on site, but it may be encountered in the vicinity roads, farms, historically potentially infilled ponds/pits, the M6 motorway, and the railway cutting.

9.8 Earthworks will be required at the site to create development plateaus for the warehouse units. Following the earthworks, a shallow spread foundation in the majority of site is likely to be viable for the proposed developments provided fill is placed to an engineered specification. Alternatives such as ground improvement options could be adopted should particularly high loads be required or unanticipated challenging ground conditions be identified.

9.9 When considered in the context of the conceptual site model and the historical activities that have taken place (farming activities), the proposed development is considered to pose a MODERATE/LOW risk to human health. It is considered that the main driver for the risk rating for human health is potential for hazardous ground gases to arise from localised Made Ground and possible organic rich natural deposits on-site.

9.10 The risk posed to controlled waters is predominantly considered to be LOW due to the lack of significant contamination identified at the site.

Recommendations

9.11 A ground investigation should be undertaken at the site with in-situ testing and laboratory testing of the encountered soils in order to confirm the ground conditions at the site.

9.12 Interpretation of the ground investigation will be required to assess the nature and extent of soil and groundwater contamination to allow a quantitative risk assessment and updated CSM and to assess the ground gas regime.

9.13 The hydrogeological regime should be assessed regarding depths, finished site levels and flow regimes to assess whether the development may alter the hydrogeology and in turn affect Highfield Moss SSSI.

10. REFERENCES

1. BS 10175:2011+A2:2017 Investigation of potentially contaminated sites. Code of practice. British Standards Institute, 2017.

2. CIRIA C552 *Contaminated land risk assessment. A guide to good practice*. Rudland, D J, Lancefield, R M, Mayell, P N, 2001.

3. Environmental Protection Act 1990: Part 2A, Contaminated Land Statutory Guidance. Department for Environment Food and Rural Affairs (DEFRA), 2012.

4. Land Contamination Risk Management. Environment Agency, 2020.

5. https://www.gov.uk/government/collections/land-contamination-technical-guidance.

6. The Control of Asbestos Regulations. Health and Safety Executive, 2012.

7. CL:AIRE Definition of Waste: Code of Practice

DRAWINGS

Drawing 1: Site Features Plan



NOTES

1. DO NOT SCALE THIS DRAWING. ALL DIMENSIONS MUCT BE CHECKED/ VERIFIED ON SITE. IF IN DOUBT ASK.

2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, ENGINEERS AND SPECIALISTS DRAWINGS AND SPECIFICATIONS.

3.ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE. ALL LEVELS IN METERES UNLESS NOTED OTHERWISE.

4. ANY DISCREPANCIES NOTED ON SITE ARE TO BE REPORTED TO THE ENGINEER IMMEDIATELY.

LEGEND

- Site boundary
- Disused mine shaft and mine gas remedial works
- Infilled Ponds
- Electricity Substation
- Area Features

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Client:

Tritax Symmetry SRFI North Ltd

Project Title:

Parkside East, St Helens

Drawing Title:

Site Features Plan

Scale:	Date:	Drawn:	Authorised:
Not to Scale	Jun-25	PM	XXX

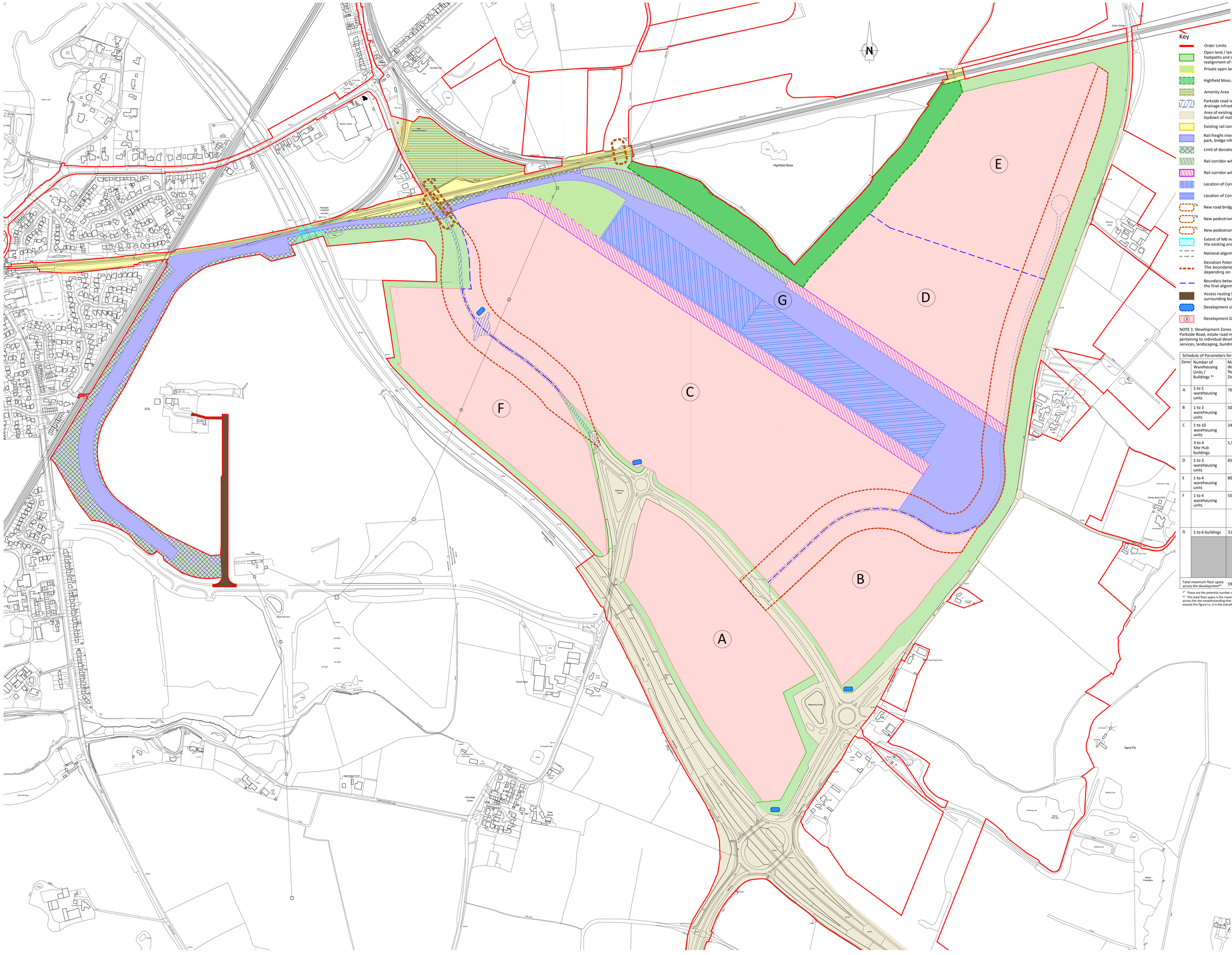
Drawing Status:

Final

Drawing No:	Revision:
PSE-BWB-ZZ-XX-RP-YE-0001_Ph1Drwg	P03

APPENDICES

Appendix 1: Proposed Masterplan



notes

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Key

- Order Limits
- Open land / landscaping, including bunding, fencing, attenuation ponds, public footpaths and cycleways, estate road infrastructure, drainage infrastructure, realignment of Parkside Road and bridgeworks.
- Private open land, non accessible to the public
- Highfield Moss protection zone including landscaping, earthworks and drainage infrastructure.
- Amenity Area
- Parkside road realignment, including associated footpaths, cycleways, landscaping and drainage infrastructure.
- Area of existing highways and land reserved adjacent to existing highways for construction / laydown of materials /compounds, highways, engineering and drainage works.
- Existing rail corridor
- Rail freight interchange including rail sidings, gantry cranes, container hardstanding, lorry park, bridge infrastructure and estate road access.
- Limit of deviation for Western rail chord and associated works
- Rail corridor within open land
- Rail corridor within development zones
- Location of Container Stack up to 7 high
- Location of Container Stack up to 5 high
- A New road bridge infrastructure over rail line
- B New pedestrian / cycleway infrastructure over rail line
- C New pedestrian footpath infrastructure over rail line
- Extent of M6 motorway (retained as existing) within Order Limits above the existing and proposed rail infrastructure
- Notional alignment of new estate roads
- Deviation Potential of Parkside Road and new estate roads. The boundaries of zones through which a limit of deviation runs will change depending on the final alignment of the infrastructure within the limit of deviation
- Boundary between development zones. The boundary will change depending on the final alignment of the infrastructure and the limits of deviation.
- Access routing to and from Newton Park Farm, Sycamore Cottage and surrounding buildings from Parkside Link Road.
- Development signage locations
- Development Zones

NOTE 1: Development Zones include the existing buildings to be demolished, the new alignment Parkside Road, estate road infrastructure, rail freight interchange link to estate road and elements pertaining to individual development plots including buildings, hardstandings, parking, energy services, landscaping, bunding, fencing and storm water attenuation.

Schedule of Parameters for Development Zones

Zone	Number of Warehousing Units / Buildings *1	Maximum development floor space per Zone (m²)	Other Defined Element Within Zone	Maximum building / element height measured to roof ridge / highest point in metres above Ordnance Datum	Equivalent building height relative to FFL
A	1 to 5 warehousing units	76,000 sq.m.		63.15m	Up to 30m
B	1 to 3 warehousing units	50,000 sq.m.	Energy Services	63.50m	Up to 30m
C	1 to 10 warehousing units	245,000 sq.m.	Energy Services	63.50m	Up to 30m
	3 to 4 Site Hub buildings	1,500 sq.m.		48.50m	Up to 15m
D	1 to 3 warehousing units	85,000 sq.m.		64.00m	Up to 30m
E	1 to 4 warehousing units	80,000 sq.m.		63.45m	Up to 30m
F	1 to 4 warehousing units	55,000 sq.m.		65.35m	Up to 30m
			Lorry Park	N/A	N/A
			Welfare	45.35m	Up to 10m
G	1 to 6 buildings	3,000 sq.m.		49.00m	Up to 15m
			Yard Container stacks 5 high Container stacks 7 high Gantry Cranes Lorry Park	48.50m 53.30m 59.00m 44.00m	Up to 14.5m Up to 20.3m Up to 25m Up to 10m
Total maximum floor space across the development*2	590,000 sq.m.				

*1 These are the potential number of main use buildings in each zone and excludes any ancillary buildings or structures.
*2 This total floor space is the maximum floor space (excluding mezzanine space) that will be developed across the site notwithstanding that the maximum floor space stated for each Zone combined would exceed this figure i.e. it is the overall floor space cap for each zone excluding mezzanine floor space.

no.	date	revision	by
E	06.10.25	Gantry crane height revised	nn
D	24.09.25	Plateau level for zone F updated	nn
C	17.09.25	Order Limits updated	nn
B	02.09.25	Order Limits updated	mjl
A	28.08.25	Key wording updated	mjl

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client

TRITAX BIG BOX

project

Intermodal Logistics Park North

drawing

Parameters Plan

scale 1:3000 @ A0 drawn mjl

checked mjl date 23.06.25

no

7275 - 073 Rev E

0m 10 20 50 100m 150 200m
Scale Bar

Appendix 2: Groundsure Report

Groundsure
LOCATION INTELLIGENCE

Enviro+Geo Insight

Parkside East, Junction 22 M6, St Helens

Order Details

Date: 17/05/2024

Your ref: 8362

Our Ref: GS-GOZ-A16-EA9-VHN

Site Details

Location: 361107 394899

Area: 209.83 ha

Authority: St Helens Metropolitan Borough Council ↗, Wigan Council ↗, Warrington Borough Council ↗



Summary of findings p. 2 >

OS MasterMap site plan N/A: >10ha

Aerial image p. 9 >

Insight User Guide ↗

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

Certified B Corporation

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
13 >	1.1 >	Historical industrial land uses >	133	67	73	78	-
26 >	1.2 >	Historical tanks >	6	15	20	12	-
28 >	1.3 >	Historical energy features >	0	1	5	2	-
29 >	1.4 >	Historical petrol stations >	0	0	1	0	-
29 >	1.5 >	Historical garages >	0	8	1	1	-
30	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
31 >	2.1 >	Historical industrial land uses >	185	93	108	107	-
49 >	2.2 >	Historical tanks >	9	19	27	18	-
52 >	2.3 >	Historical energy features >	0	2	8	6	-
53 >	2.4 >	Historical petrol stations >	0	0	1	0	-
53 >	2.5 >	Historical garages >	0	12	1	1	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
55 >	3.1 >	Active or recent landfill >	2	0	0	0	-
56 >	3.2 >	Historical landfill (BGS records) >	0	0	1	0	-
56 >	3.3 >	Historical landfill (LA/mapping records) >	0	0	0	1	-
57 >	3.4 >	Historical landfill (EA/NRW records) >	0	2	2	0	-
58 >	3.5 >	Historical waste sites >	1	0	0	0	-
58 >	3.6 >	Licensed waste sites >	0	0	2	6	-
60 >	3.7 >	Waste exemptions >	3	1	10	54	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
67 >	4.1 >	Recent industrial land uses >	6	7	31	-	-
70 >	4.2 >	Current or recent petrol stations >	0	1	1	0	-
71	4.3	Electricity cables	0	0	0	0	-
71	4.4	Gas pipelines	0	0	0	0	-
71	4.5	Sites determined as Contaminated Land	0	0	0	0	-

71	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
71	4.7	Regulated explosive sites	0	0	0	0	-
72	4.8	Hazardous substance storage/usage	0	0	0	0	-
72	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
72 >	4.10 >	Licensed industrial activities (Part A(1)) >	1	0	0	1	-
73 >	4.11 >	Licensed pollutant release (Part A(2)/B) >	1	1	2	0	-
73	4.12	Radioactive Substance Authorisations	0	0	0	0	-
73 >	4.13 >	Licensed Discharges to controlled waters >	0	2	7	24	-
78	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
78	4.15	Pollutant release to public sewer	0	0	0	0	-
79	4.16	List 1 Dangerous Substances	0	0	0	0	-
79	4.17	List 2 Dangerous Substances	0	0	0	0	-
79 >	4.18 >	Pollution Incidents (EA/NRW) >	0	0	4	6	-
80	4.19	Pollution inventory substances	0	0	0	0	-
81	4.20	Pollution inventory waste transfers	0	0	0	0	-
81	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	**Hydrogeology** >	On site	0-50m	50-250m	250-500m	500-2000m
82 >	5.1 >	Superficial aquifer >	Identified (within 500m)				
86 >	5.2 >	Bedrock aquifer >	Identified (within 500m)				
88 >	5.3 >	Groundwater vulnerability >	Identified (within 50m)				
96	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
96	5.5	Groundwater vulnerability- local information	None (within 0m)				
97 >	5.6 >	Groundwater abstractions >	1	0	0	2	28
105 >	5.7 >	Surface water abstractions >	0	0	0	0	8
107 >	5.8 >	Potable abstractions >	0	0	0	2	16
112 >	5.9 >	Source Protection Zones >	2	0	0	2	-
112	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	**Hydrology** >	On site	0-50m	50-250m	250-500m	500-2000m
113 >	6.1 >	Water Network (OS MasterMap) >	12	5	12	-	-

116 >	6.2 >	Surface water features >	1	7	10	-	-
116 >	6.3 >	WFD Surface water body catchments >	2	-	-	-	-
117 >	6.4 >	WFD Surface water bodies >	1	1	0	-	-
117 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
118 >	7.1 >	Risk of flooding from rivers and the sea >	High (within 50m)				
119	7.2	Historical Flood Events	0	0	0	-	-
119	7.3	Flood Defences	0	0	0	-	-
119	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
119	7.5	Flood Storage Areas	0	0	0	-	-
120 >	7.6 >	Flood Zone 2 >	Identified (within 50m)				
121 >	7.7 >	Flood Zone 3 >	Identified (within 50m)				
Page	Section	Surface water flooding >					
122 >	8.1 >	Surface water flooding >	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
124 >	9.1 >	Groundwater flooding >	High (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
125 >	10.1 >	Sites of Special Scientific Interest (SSSI) >	1	0	0	0	0
126	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
126	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
126	10.4	Special Protection Areas (SPA)	0	0	0	0	0
126	10.5	National Nature Reserves (NNR)	0	0	0	0	0
127	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
127 >	10.7 >	Designated Ancient Woodland >	0	0	0	0	1
127	10.8	Biosphere Reserves	0	0	0	0	0
127	10.9	Forest Parks	0	0	0	0	0
128	10.10	Marine Conservation Zones	0	0	0	0	0
128 >	10.11 >	Green Belt >	4	0	0	0	0
128	10.12	Proposed Ramsar sites	0	0	0	0	0

128	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
129	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
129	10.15	Nitrate Sensitive Areas	0	0	0	0	0
129 >	10.16 >	Nitrate Vulnerable Zones >	2	0	1	0	5
131 >	10.17 >	SSSI Impact Risk Zones >	13	-	-	-	-
137 >	10.18 >	SSSI Units >	1	2	0	0	0
Page	Section	Visual and cultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
139	11.1	World Heritage Sites	0	0	0	-	-
140	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
140	11.3	National Parks	0	0	0	-	-
140 >	11.4 >	Listed Buildings >	3	2	1	-	-
141 >	11.5 >	Conservation Areas >	1	0	0	-	-
141	11.6	Scheduled Ancient Monuments	0	0	0	-	-
141	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
142 >	12.1 >	Agricultural Land Classification >	Grade 3a (within 250m)				
145 >	12.2 >	Open Access Land >	2	2	0	-	-
145 >	12.3 >	Tree Felling Licences >	6	10	14	-	-
146 >	12.4 >	Environmental Stewardship Schemes >	7	2	1	-	-
147 >	12.5 >	Countryside Stewardship Schemes >	8	1	3	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
149 >	13.1 >	Priority Habitat Inventory >	17	15	36	-	-
152 >	13.2 >	Habitat Networks >	2	0	4	-	-
153 >	13.3 >	Open Mosaic Habitat >	1	0	1	-	-
153	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
154 >	14.1 >	10k Availability >	Identified (within 500m)				
155	14.2	Artificial and made ground (10k)	0	0	0	0	-
156	14.3	Superficial geology (10k)	0	0	0	0	-

156	14.4	Landslip (10k)	0	0	0	0	-
157	14.5	Bedrock geology (10k)	0	0	0	0	-
157	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
158 >	15.1 >	50k Availability >	Identified (within 500m)				
159 >	15.2 >	Artificial and made ground (50k) >	1	0	0	0	-
160 >	15.3 >	Artificial ground permeability (50k) >	3	1	-	-	-
161 >	15.4 >	Superficial geology (50k) >	11	2	5	14	-
163 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
164	15.6	Landslip (50k)	0	0	0	0	-
164	15.7	Landslip permeability (50k)	None (within 50m)				
165 >	15.8 >	Bedrock geology (50k) >	10	0	3	6	-
166 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
167 >	15.10 >	Bedrock faults and other linear features (50k) >	4	0	2	2	-
Page	Section	**Boreholes >**	On site	0-50m	50-250m	250-500m	500-2000m
168 >	16.1 >	BGS Boreholes >	22	20	95	-	-
Page	Section	**Natural ground subsidence >**					
174 >	17.1 >	Shrink swell clays >	Very low (within 50m)				
176 >	17.2 >	Running sands >	Low (within 50m)				
178 >	17.3 >	Compressible deposits >	High (within 50m)				
180 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
182 >	17.5 >	Landslides >	Moderate (within 50m)				
184 >	17.6 >	Ground dissolution of soluble rocks >	Negligible (within 50m)				
Page	Section	**Mining and ground workings >**	On site	0-50m	50-250m	250-500m	500-2000m
186 >	18.1 >	BritPits >	2	2	8	5	-
189 >	18.2 >	Surface ground workings >	120	60	146	-	-
201 >	18.3 >	Underground workings >	2	0	0	0	0
202	18.4	Underground mining extents	0	0	0	0	-
202 >	18.5 >	Historical Mineral Planning Areas >	1	1	0	2	-

202	18.6	Non-coal mining	0	0	0	0	0
203 >	**18.7 >**	**JPB mining areas >**	Identified (within 0m)				
203	18.8	The Coal Authority non-coal mining	0	0	0	0	-
203	18.9	Researched mining	0	0	0	0	-
204	18.10	Mining record office plans	0	0	0	0	-
204	18.11	BGS mine plans	0	0	0	0	-
204 >	**18.12 >**	**Coal mining >**	Identified (within 0m)				
204	18.13	Brine areas	None (within 0m)				
205	18.14	Gypsum areas	None (within 0m)				
205	18.15	Tin mining	None (within 0m)				
205	18.16	Clay mining	None (within 0m)				
Page	Section	**Ground cavities and sinkholes >**	On site	0-50m	50-250m	250-500m	500-2000m
206	19.1	Natural cavities	0	0	0	0	-
207	19.2	Mining cavities	0	0	0	0	0
207	19.3	Reported recent incidents	0	0	0	0	-
207 >	**19.4 >**	**Historical incidents >**	0	0	0	7	-
208	19.5	National karst database	0	0	0	0	-
Page	Section	**Radon >**					
209 >	**20.1 >**	**Radon >**	Between 1% and 3% (within 0m)				
Page	Section	**Soil chemistry >**	On site	0-50m	50-250m	250-500m	500-2000m
211 >	**21.1 >**	**BGS Estimated Background Soil Chemistry >**	86	26	-	-	-
217	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
217	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
218	22.1	Underground railways (London)	0	0	0	-	-
218	22.2	Underground railways (Non-London)	0	0	0	-	-
219	22.3	Railway tunnels	0	0	0	-	-
219 >	**22.4 >**	**Historical railway and tunnel features >**	33	19	16	-	-
222	22.5	Royal Mail tunnels	0	0	0	-	-

222 >	22.6 >	Historical railways >	5	0	0	-	-
222 >	22.7 >	Railways >	50	7	11	-	-
225	22.8	Crossrail 1	0	0	0	0	-
225	22.9	Crossrail 2	0	0	0	0	-
225	22.10	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 22/04/2019

Site Area: 209.83ha

Recent site history - 2015 aerial photograph



Capture Date: 11/06/2015

Site Area: 209.83ha

Recent site history - 2001 aerial photograph



Capture Date: 07/05/2001

Site Area: 209.83ha

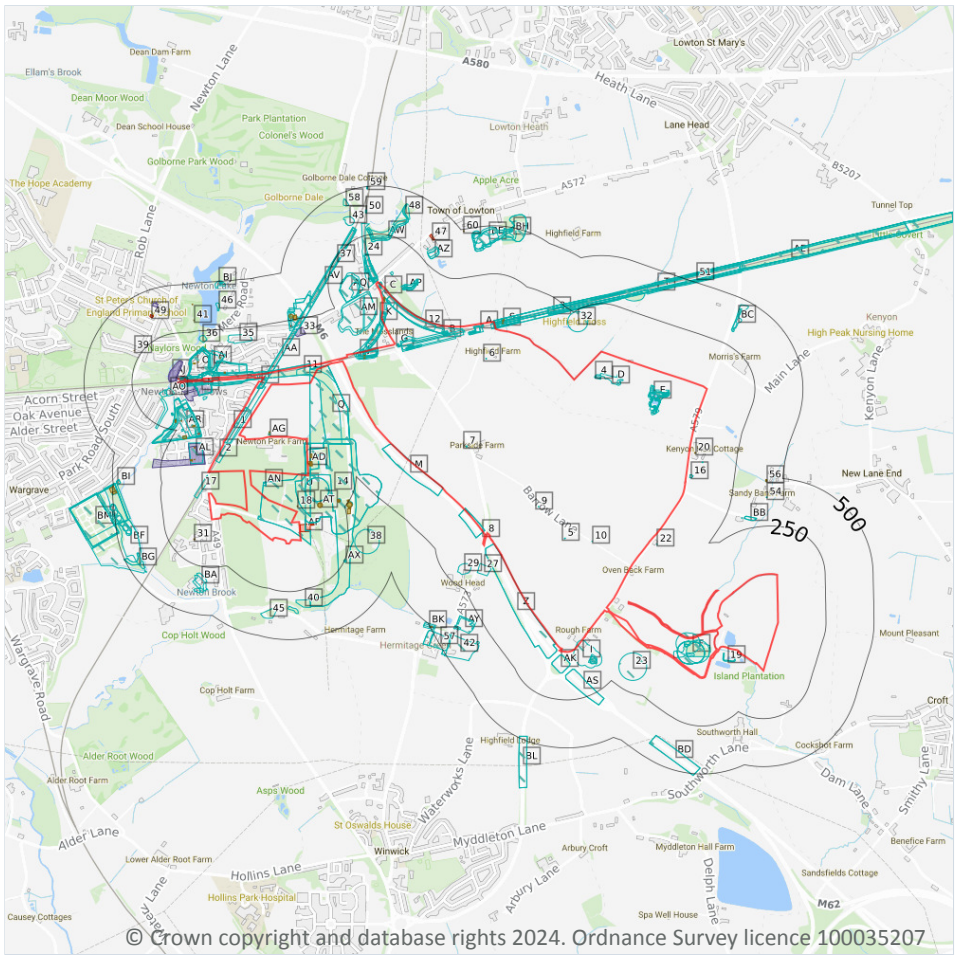
Recent site history - 2000 aerial photograph



Capture Date: 04/09/2000

Site Area: 209.83ha

1 Past land use



1.1 Historical industrial land uses

Records within 500m	351

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

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

ID	Location	Land use	Dates present	Group ID
1	**On site**	**Railway Sidings**	**1994**	**794617**

ID	Location	Land use	Dates present	Group ID
2	On site	Cuttings	1891	795688
3	On site	Cuttings	1851	928579
4	On site	Unspecified Pits	1906	811208
5	On site	Shed	1851	811674
6	On site	Pump	1851	827000
7	On site	Pump	1851	827003
8	On site	Pump	1851	827004
9	On site	Pump	1851	827005
10	On site	Pump	1851	827032
11	On site	Railway Sidings	1992 - 1994	854011
12	On site	Railway Sidings	1947 - 1955	870382
13	On site	Cuttings	1891	875889
14	On site	Colliery	1967	893327
15	On site	Railway Sidings	1981 - 1984	920191
A	On site	Railway Building	1955	820305
A	On site	Junction Station	1947	811477
A	On site	Railway Station	1851	822930
A	On site	Cuttings	1925	845332
A	On site	Railway Building	1892	847762
A	On site	Railway Building	1938	887825
A	On site	Railway Building	1906	925367
A	On site	Cuttings	1892	945112
A	On site	Cuttings	1938 - 1947	965117
B	On site	Railway Building	1892	820306
B	On site	Unspecified Tank	1851	825131
B	On site	Unspecified Tank	1851	825133
B	On site	Gas House	1851	834327
B	On site	Pumping Station	1906	874531

ID	Location	Land use	Dates present	Group ID
B	On site	Pumping Station	1938	931674
B	On site	Pumping Station	1925	946481
C	On site	Railway Building	1892	819998
C	On site	Railway Building	1947	820008
C	On site	Railway Station	1965 - 1992	846940
C	On site	Railway Station	1947 - 1955	879485
C	On site	Cuttings	1925	933692
C	On site	Railway Station	1892	938901
C	On site	Railway Station	1938	946567
D	On site	Pits	1851	794116
D	On site	Unspecified Pits	1906	811207
E	On site	Pits	1851	794118
E	On site	Unspecified Pits	1972 - 1992	867098
E	On site	Unspecified Pits	1955 - 1965	867918
E	On site	Unspecified Pits	1891	891356
E	On site	Unspecified Pits	1926	902749
E	On site	Unspecified Pits	1938	913132
E	On site	Unspecified Pits	1926	914355
E	On site	Unspecified Pits	1906	963733
F	On site	Pits	1851	794123
F	On site	Unspecified Pits	1955	873024
G	On site	Railway Building	1955	820009
G	On site	Railway Building	1906	851070
G	On site	Railway Building	1947	899774
H	On site	Railway Building	1955	820010
H	On site	Railway Building	1955	820011
H	On site	Railway Building	1892	820012
H	On site	Pumping Station	1892	822110

ID	Location	Land use	Dates present	Group ID
H	On site	Pumping Station	1906	822111
H	On site	Railway Station	1851	822932
H	On site	Railway Building	1947	846575
H	On site	Railway Building	1938	891921
H	On site	Railway Building	1925	901660
H	On site	Railway Building	1947	919334
H	On site	Railway Sidings	1892	924236
H	On site	Railway Sidings	1906 - 1938	934737
H	On site	Railway Building	1938	962822
H	On site	Railway Building	1906	980033
I	On site	Unspecified Workings	1967	821947
J	On site	Unspecified Tank	1955	825132
J	On site	Cuttings	1972 - 1992	867378
J	On site	Cuttings	1926	879711
J	On site	Cuttings	1892 - 1906	886132
J	On site	Unspecified Tank	1906 - 1947	888050
J	On site	Cuttings	1965	908983
J	On site	Cuttings	1938 - 1947	924306
J	On site	Cuttings	1947	934749
J	On site	Cuttings	1925	937022
J	On site	Cuttings	1891	954953
J	On site	Cuttings	1938	966819
J	On site	Cuttings	1955	979383
K	On site	Cuttings	1938	856446
K	On site	Cuttings	1892	869580
K	On site	Cuttings	1947	886879
K	On site	Cuttings	1906	962933
K	On site	Cuttings	1955	963024

ID	Location	Land use	Dates present	Group ID
L	On site	Cuttings	1955	858638
L	On site	Cuttings	1906	882385
L	On site	Cuttings	1938	904741
L	On site	Railway Building	1973	922256
L	On site	Cuttings	1926	980484
M	On site	Cuttings	1987	861561
M	On site	Cuttings	1967 - 1975	935287
N	On site	Unspecified Depot	1981	865275
N	On site	Unspecified Depot	1994	867093
O	On site	Printing Works	1947	868745
P	On site	Cuttings	1987	869052
P	On site	Cuttings	1967 - 1975	965543
Q	On site	Railway Sidings	1972 - 1973	869341
Q	On site	Colliery Yard	1984	884538
Q	On site	Colliery Yard	1992	946799
R	On site	Cuttings	1892 - 1906	870074
R	On site	Cuttings	1925	964025
R	On site	Cuttings	1955	983460
S	On site	Cuttings	1925	878961
S	On site	Cuttings	1955	902738
S	On site	Cuttings	1906	957978
S	On site	Cuttings	1947	971639
S	On site	Cuttings	1938	986151
T	On site	Cuttings	1892	882226
U	On site	Railway Sidings	1976	887909
U	On site	Railway Sidings	1989	918233
V	On site	Railway Sidings	1947 - 1955	890077
V	On site	Goods Shed	1947	922248

ID	Location	Land use	Dates present	Group ID
V	**On site**	**Goods Shed**	**1926 - 1938**	**930210**
V	**On site**	**Railway Sidings**	**1965 - 1973**	**964550**
V	**On site**	**Railway Sidings**	**1891 - 1938**	**987593**
V	**On site**	**Railway Building**	**1891 - 1906**	**988325**
W	**On site**	**Cuttings**	**1947**	**908266**
X	**On site**	**Cuttings**	**1892 - 1906**	**911604**
X	**On site**	**Cuttings**	**1938 - 1992**	**930109**
X	**On site**	**Cuttings**	**1925**	**971455**
Y	**On site**	**Colliery**	**1987 - 1989**	**919188**
Y	**On site**	**Colliery**	**1975 - 1976**	**968057**
Z	**On site**	**Cuttings**	**1967 - 1975**	**922582**
Z	**On site**	**Cuttings**	**1987**	**925427**
AA	**On site**	**Cuttings**	**1891 - 1938**	**926346**
AB	**On site**	**Railway Station**	**1891 - 1938**	**927690**
AB	**On site**	**Railway Station**	**1965 - 1973**	**927829**
AB	**On site**	**Railway Station**	**1981 - 1994**	**940925**
AB	**On site**	**Railway Station**	**1955**	**950910**
AB	**On site**	**Railway Station**	**1851**	**968934**
AB	**On site**	**Railway Station**	**1947**	**986388**
AC	**On site**	**Railway Building**	**1906 - 1947**	**961216**
L	1m W	Railway Building	1981 - 1994	897951
AE	1m N	Cuttings	1984	857663
AE	1m N	Cuttings	1965	917389
AE	1m N	Cuttings	1972	944285
AE	1m N	Cuttings	1992	949950
O	3m W	Printing Works	1891	980825
O	3m W	Unspecified Commercial/Industrial	1906 - 1938	983529
N	3m W	Unspecified Depot	1973	858400

ID	Location	Land use	Dates present	Group ID
V	4m W	Goods Shed	1955	834666
AA	5m W	Cuttings	1955	849373
C	6m NW	Cuttings	1892	948984
C	9m NW	Cuttings	1906	892385
C	9m NW	Cuttings	1938 - 1947	962127
F	9m SE	Unspecified Pits	1987	867403
F	9m SE	Unspecified Pits	1955	919673
F	9m SE	Unspecified Pits	1975	933017
F	9m SE	Unspecified Pits	1967	992095
R	9m NW	Cuttings	1938	946755
R	9m NW	Cuttings	1947	970121
AG	10m W	Unspecified Tank	1938	887402
AG	10m W	Unspecified Tank	1906 - 1947	861724
AH	11m W	Railway Sidings	1967 - 1975	908107
AH	11m W	Railway Sidings	1987	969799
O	11m W	Unspecified Works	1981 - 1994	919020
C	12m NW	Railway Sidings	1906	908822
F	12m SE	Unspecified Pits	1891 - 1906	910169
V	13m W	Unspecified Works	1973	953568
AC	13m W	Railway Building	1955	820013
AI	14m W	Printing Works	1906 - 1938	959653
C	14m NW	Railway Building	1938 - 1947	959468
R	15m NW	Cuttings	1965 - 1992	891737
C	15m NW	Railway Station	1906	822929
V	16m W	Unspecified Works	1965	914643
V	16m W	Unspecified Works	1981 - 1994	981005
O	18m W	Unspecified Works	1965 - 1973	885957
O	18m W	Unspecified Commercial/Industrial	1955	920174

ID	Location	Land use	Dates present	Group ID
AG	18m W	Unspecified Tank	1955	825127
16	19m E	Sand Pit	1851	797556
17	20m W	Cuttings	1891	795689
C	20m NW	Cuttings	1955	935335
AK	20m S	Cuttings	1967 - 1975	912551
AK	20m S	Cuttings	1987	886250
C	21m NW	Cuttings	1925	847497
Y	25m W	Unspecified Shaft	1975	884160
Y	25m W	Unspecified Shaft	1987	906927
C	25m NW	Railway Building	1955	819997
C	26m NW	Cuttings	1947	890462
C	26m NW	Cuttings	1965 - 1992	867110
19	28m SE	Unspecified Ground Workings	1851	799979
C	28m NW	Railway Buildings	1906	833591
AI	29m W	Printing Works	1955	912763
F	31m SE	Unspecified Pits	1938	869658
F	31m SE	Unspecified Pits	1926	915739
21	32m NW	Unspecified Pit	1947	922253
F	32m SE	Unspecified Pits	1926	965772
AM	35m NW	Unspecified Pit	1955	915129
22	37m SE	Pump	1851	827031
C	38m NW	Weighing Machine	1851	810048
S	38m N	Unspecified Tank	1955	940911
S	38m N	Unspecified Tank	1947	916328
S	39m N	Unspecified Tank	1925	885175
AN	39m W	Magazine	1976	860859
AN	39m W	Magazine	1989	880851
S	40m N	Unspecified Tank	1938	917077

ID	Location	Land use	Dates present	Group ID
S	40m N	Unspecified Tank	1906	966736
AL	46m W	Garage	1989	844154
F	49m SE	Unspecified Pits	1926 - 1938	959159
23	54m SE	Unspecified Disused Workhouse	1987	802182
AO	57m W	Unspecified Mill	1906	810259
24	62m NW	Railway Sidings	1955	930071
C	64m NW	Railway Sidings	1925	846539
AP	66m NW	Unspecified Ground Workings	1938	906353
C	67m NW	Railway Sidings	1938	939077
AP	67m NW	Unspecified Ground Workings	1925	853080
AP	70m NW	Unspecified Ground Workings	1947	963615
C	70m NW	Railway Sidings	1947	981975
25	73m E	Pump	1851	827010
AP	73m NW	Unspecified Ground Workings	1955	897197
AQ	73m NW	Sand Pit	1938	890390
26	76m NW	Gravel Pit	1851	807807
N	78m W	Unspecified Heap	1965	803891
27	80m S	Disused Delph	1926	826505
AR	81m W	Unspecified Works	1955	947544
AQ	83m NW	Old Sand Pit	1947 - 1955	899342
AP	84m NW	Unspecified Ground Workings	1965 - 1992	986040
I	85m S	Unspecified Pit	1955	916686
AO	85m W	Corn Mill	1849	823133
AM	87m NW	Unspecified Pit	1947	953146
AR	88m W	Unspecified Works	1947	937752
AR	88m W	Unspecified Works	1891 - 1926	960792
AQ	88m NW	Sand Pit	1906 - 1926	935827
I	88m S	Unspecified Pit	1926	868256

ID	Location	Land use	Dates present	Group ID
I	89m S	Unspecified Pit	1891 - 1938	979484
AS	93m S	Cuttings	1967 - 1975	929341
AS	93m S	Cuttings	1987	983368
I	94m S	Sandstone Quarry	1851	837915
AQ	98m NW	Unspecified Pit	1891	839806
28	108m W	Unspecified Warehouses	1981 - 1994	942907
AR	110m W	Unspecified Warehouses	1973	880614
AR	119m W	Unspecified Works	1938	924326
AR	119m W	Unspecified Ground Workings	1955	979916
AR	125m W	Unspecified Ground Workings	1981 - 1994	948326
AR	126m W	Unspecified Ground Workings	1938	955712
29	127m SW	Sandstone Delf	1851	812653
30	131m W	Unspecified Ground Workings	1955	799967
AR	135m W	Unspecified Warehouses	1981 - 1994	902251
32	146m NE	Rifle Range	1892	835005
AE	161m N	Cuttings	1925	909497
AU	162m N	Cuttings	1938	890278
AU	162m N	Cuttings	1906	955986
34	164m N	Cuttings	1947	939111
AR	164m W	Pump House	1947	948091
AR	166m W	Pump House	1926	889775
AR	167m W	Pump House	1938	910180
AE	168m N	Cuttings	1955	884554
35	171m W	Sandstone Quarry	1851	837911
AR	182m W	Unspecified Tank	1926 - 1938	986283
AR	182m W	Unspecified Tank	1938	893239
36	187m W	Refuse Heap	1965	828806
AR	191m W	Unspecified Tanks	1947 - 1955	953586

ID	Location	Land use	Dates present	Group ID
W	196m NW	Water Works	1906 - 1938	984496
AR	196m W	Unspecified Tanks	1938	894134
AV	197m NW	Cuttings	1891 - 1938	884754
AR	198m W	Unspecified Tanks	1938	859231
AR	198m W	Unspecified Tanks	1926	913806
AH	200m W	Unspecified Tank	1987	845046
AH	200m W	Unspecified Tank	1967 - 1975	977617
W	207m NW	Unspecified Works	1965	830327
AW	210m NW	Unspecified Pit	1938	839805
AW	211m NW	Unspecified Ground Workings	1925	906496
W	213m NW	Water Works	1955	906124
AV	214m NW	Cuttings	1955	873048
AR	218m W	Sandstone Quarry	1849	837913
AW	221m NW	Unspecified Ground Workings	1965 - 1992	860973
W	225m NW	Water Works	1947	984084
37	230m NW	Cuttings	1965 - 1992	920843
W	246m NW	Unspecified Tank	1906 - 1938	865963
W	247m NW	Unspecified Tank	1947	875911
AX	248m SW	Railway Building	1975	849934
AX	248m SW	Railway Building	1987	856211
AH	253m W	Unspecified Tank	1967 - 1975	871602
AH	253m W	Unspecified Tank	1987	885238
W	264m NW	Unspecified Tank	1955	861182
W	264m NW	Unspecified Tank	1965	921543
AY	280m S	Unspecified Hole	1906 - 1938	885184
38	281m SW	Unspecified Workings	1987	821946
AZ	282m NW	Unspecified Pit	1925	883857
AZ	283m NW	Unspecified Pit	1938 - 1947	887753

ID	Location	Land use	Dates present	Group ID
AZ	285m NW	Unspecified Pit	1955	971015
BA	286m W	Unspecified Mill	1891	810258
BB	287m E	Unspecified Pit	1906 - 1938	912438
BB	287m E	Unspecified Pit	1926	954941
AY	288m S	Unspecified Ground Workings	1926	799977
40	297m SW	Refuse Heap	1989	828886
BA	299m W	Corn Mill	1906	823135
T	300m NE	Sand Pit	1851	797558
AZ	300m NW	Pump	1851	826998
BB	309m E	Pump	1851	827006
42	319m S	Nursery	1891 - 1906	943447
BC	323m NE	Pits	1851	794117
43	326m NW	Gravel Pit	1851	807806
44	327m SW	Refuse Heap	1965	828888
BC	328m NE	Unspecified Pits	1906	811206
45	338m SW	Unspecified Pit	1989	839796
46	347m NW	Sandstone Quarry	1851	837912
48	361m NW	Unspecified Ground Workings	1972 - 1992	863690
AY	363m S	Unspecified Hole	1955	969351
50	364m NW	Railway Building	1906	820000
BA	366m W	Cotton Mill	1849	797884
51	371m NE	Cuttings	1851	882651
BD	375m SE	Cuttings	1967 - 1975	969307
BD	375m SE	Cuttings	1987	985750
BE	375m N	Old Sand Pit	1925	847561
BE	377m N	Old Sand Pit	1938 - 1947	869983
BE	385m N	Old Sand Pit	1955	861635
BE	387m N	Refuse Heap	1965 - 1972	892063

ID	Location	Land use	Dates present	Group ID
53	394m W	Sewage Works	1947 - 1955	971651
BF	394m W	Unspecified Works	1965	830306
54	398m E	Pump	1851	827007
BE	400m N	Sand Pit	1906	797557
BG	419m W	Refuse Heap	1989	937901
BF	421m W	Sewage Works	1891 - 1906	975979
BF	421m W	Unspecified Tanks	1965	858649
BF	421m W	Unspecified Tanks	1955	955539
57	422m SW	Nursery	1906	974701
BG	422m W	Refuse Heap	1976	872192
BF	425m W	Filter Beds	1947	814568
58	426m NW	Unspecified Pit	1965 - 1992	875984
BH	428m N	Refuse Heap	1965	828856
BF	433m W	Sewage Works	1938	985763
BF	433m W	Sewage Works	1938	978159
BH	435m N	Unspecified Ground Workings	1972	799968
BH	435m N	Unspecified Disused Pit	1984 - 1992	975502
BF	435m W	Sewage Works	1926	905080
BF	438m W	Filter Beds	1947	814567
BE	443m N	Unspecified Pit	1965 - 1972	979923
BF	455m W	Filter Beds	1947	814569
BI	462m W	Pumping Station	1976	903656
BI	462m W	Pumping Station	1989	934650
BJ	465m NW	Sandstone Quarry	1851	837906
BF	466m W	Filter Beds	1947	814570
BK	472m SW	Unspecified Disused Mill	1955	918596
BL	477m S	Cuttings	1967 - 1975	948518
BL	477m S	Cuttings	1987	968269

ID	Location	Land use	Dates present	Group ID
BK	477m SW	Unspecified Disused Mill	1926	918536
BI	481m W	Unspecified Tanks	1947 - 1955	850194
BF	483m W	Filter Beds	1947	814566
BJ	486m NW	Boat House	1906 - 1938	947611
59	488m NW	Railway Building	1938	819999
BJ	488m NW	Boat House	1947	970607
BM	488m W	Cemetery	1926 - 1947	959395
BM	489m W	Cemetery	1955	862227
BM	489m W	Cemetery	1989	934164
BM	489m W	Cemetery	1965 - 1976	974070
BF	490m W	Filter Beds	1947	814565
BN	490m SW	Unspecified Disused Mill	1926 - 1938	859056
BN	492m SW	Unspecified Mill	1906	810257
BM	499m W	Cemetery	1891 - 1906	937574

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	**53**

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

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

ID	Location	Land use	Dates present	Group ID
C	**On site**	**Unspecified Tank**	**1959 - 1966**	**136205**
C	**On site**	**Unspecified Tank**	**1907 - 1928**	**138754**
C	**On site**	**Unspecified Tank**	**1988**	**142313**
J	**On site**	**Unspecified Tank**	**1959**	**113745**

ID	Location	Land use	Dates present	Group ID
J	**On site**	**Unspecified Tank**	**1907 - 1928**	**128257**
AD	**On site**	**Cooling Tanks**	**1972**	**138707**
AD	13m W	Cooling Tanks	1993	138855
AD	13m W	Cooling Tanks	1986 - 1991	126125
AG	15m W	Unspecified Tank	1907 - 1928	125750
AD	15m W	Cooling Tanks	1986	120655
V	21m W	Tanks	1972	106029
AG	24m W	Unspecified Tank	1972	130773
AG	24m W	Unspecified Tank	1996	132480
AG	24m W	Unspecified Tank	1995	136810
AG	24m W	Unspecified Tank	1996	137470
AG	24m W	Unspecified Tank	1999	139207
AG	24m W	Unspecified Tank	1960	144477
18	26m W	Unspecified Tank	1972	113867
20	28m E	Unspecified Tank	1994	113869
S	38m N	Unspecified Tank	1907 - 1928	145431
S	45m N	Unspecified Tank	1959 - 1966	140485
S	53m N	Unspecified Tank	1992	113738
O	84m W	Tank (Fuel)	1972	120534
O	88m W	Unspecified Tank	1907	113746
AL	92m W	Tanks	1972	106047
AL	100m W	Tanks	1972	106055
AI	101m W	Tanks	1972	106028
AT	113m W	Unspecified Tank	1986 - 1991	138443
AT	114m W	Unspecified Tank	1993	137554
AL	119m W	Unspecified Tank	1972	113865
31	133m W	Unspecified Tank	1972 - 1991	128682
AR	168m W	Tanks	1907	106046

ID	Location	Land use	Dates present	Group ID
AR	182m W	Unspecified Tank	1928	113863
AR	196m W	Tanks	1928	106067
AH	198m W	Unspecified Tank	1991 - 1993	132294
AR	200m W	Unspecified Tank	1928	113864
AH	203m W	Unspecified Tank	1961 - 1986	132013
AH	240m W	Unspecified Tank	1991 - 1993	143560
W	246m NW	Tanks	1928	106030
W	246m NW	Unspecified Tank	1907	113744
AH	249m W	Unspecified Tank	1961	135861
AH	251m W	Unspecified Tank	1991 - 1993	130521
AH	256m W	Unspecified Tank	1991 - 1993	136744
W	259m NW	Unspecified Tank	1960	113743
AH	268m W	Unspecified Tank	1991 - 1993	141776
39	286m W	Unspecified Tank	1907	113747
41	307m NW	Unspecified Tank	1907	113748
52	389m NW	Unspecified Tank	1907 - 1928	132886
56	413m E	Unspecified Tank	1985 - 1994	137049
BI	478m W	Tanks	1960	106056
BI	485m W	Septic Tanks	1928	120465
60	488m N	Unspecified Tank	1907 - 1928	142446
BK	491m SW	Unspecified Tank	1928	113868

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	8

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

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

ID	Location	Land use	Dates present	Group ID
AF	3m W	Electricity Substation	1972 - 1995	66942
AF	56m W	Electricity Substation	1993	61443
AF	64m W	Electricity Substation	1986 - 1991	75023
AQ	91m NW	Electricity Substation	1988	61437
AR	128m W	Electricity Substation	1984 - 1990	84465
W	214m NW	Electricity Substation	1972	61438
47	355m N	Electricity Substation	1970	61436
49	361m W	Electricity Substation	1972 - 1990	72884

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m	**1**

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

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

ID	Location	Land use	Dates present	Group ID
O	84m W	Tank (Fuel)	1972	1537

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m	**10**

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

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

ID	Location	Land use	Dates present	Group ID
AB	4m W	Garage	1990	25628
N	7m W	Motor Body Repair Depot	1972	20630
AJ	18m W	Garage	1960	23232
AJ	20m W	Garage	1972	23748
AJ	24m W	Garage	1984 - 1990	27608
AL	34m W	Garage	1972	24039
AL	35m W	Garage	1960	22012
AB	47m W	Garage	1990	25172
33	159m NW	Garage	1972	20191
55	402m NW	Garage	1960	20190

This data is sourced from Ordnance Survey / Groundsure.

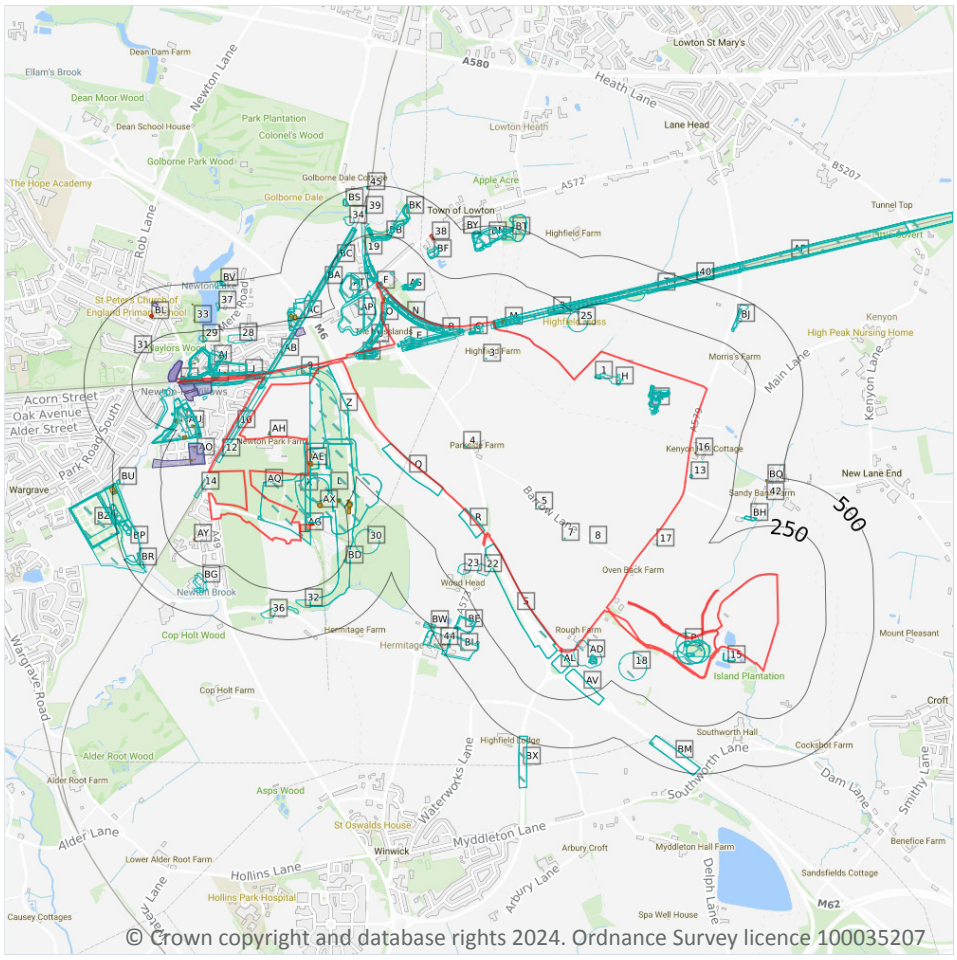
1.6 Historical military land

Records within 500m	**0**

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

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

2 Past land use - un-grouped



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2.1 Historical industrial land uses

Records within 500m	493

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 31 >**

ID	Location	Land Use	Date	Group ID
1	**On site**	**Unspecified Pits**	**1906**	**811208**
2	**On site**	**Cuttings**	**1851**	**928579**
3	**On site**	**Pump**	**1851**	**827000**

ID	Location	Land Use	Date	Group ID
4	On site	Pump	1851	827003
5	On site	Pump	1851	827005
6	On site	Pump	1851	827004
7	On site	Shed	1851	811674
8	On site	Pump	1851	827032
9	On site	Railway Sidings	1973	869341
10	On site	Railway Sidings	1994	794617
11	On site	Cuttings	1891	875889
12	On site	Cuttings	1891	795688
A	On site	Unspecified Pits	1938	913132
A	On site	Unspecified Pits	1926	902749
A	On site	Unspecified Pits	1906	963733
A	On site	Unspecified Pits	1891	891356
A	On site	Pits	1851	794118
A	On site	Unspecified Pits	1926	914355
A	On site	Unspecified Pits	1992	867098
A	On site	Unspecified Pits	1972	867098
A	On site	Unspecified Pits	1984	867098
A	On site	Unspecified Pits	1965	867918
A	On site	Unspecified Pits	1955	867918
B	On site	Pumping Station	1938	931674
B	On site	Pumping Station	1906	874531
B	On site	Unspecified Tank	1851	825131
B	On site	Unspecified Tank	1851	825133
B	On site	Gas House	1851	834327
B	On site	Pumping Station	1925	946481
B	On site	Railway Building	1892	820306
C	On site	Railway Building	1938	887825

ID	Location	Land Use	Date	Group ID
C	On site	Railway Building	1906	925367
C	On site	Cuttings	1938	965117
C	On site	Cuttings	1892	945112
C	On site	Railway Station	1851	822930
C	On site	Cuttings	1925	845332
C	On site	Railway Building	1892	847762
C	On site	Railway Building	1955	820305
C	On site	Junction Station	1947	811477
C	On site	Cuttings	1947	965117
D	On site	Unspecified Tank	1938	888050
D	On site	Unspecified Tank	1906	888050
D	On site	Cuttings	1938	966819
D	On site	Cuttings	1906	886132
D	On site	Cuttings	1992	867378
D	On site	Cuttings	1972	867378
D	On site	Cuttings	1984	867378
D	On site	Cuttings	1965	908983
D	On site	Cuttings	1892	886132
D	On site	Cuttings	1955	979383
D	On site	Cuttings	1925	937022
D	On site	Unspecified Tank	1925	888050
D	On site	Unspecified Tank	1955	825132
D	On site	Unspecified Tank	1947	888050
D	On site	Cuttings	1938	924306
D	On site	Cuttings	1926	879711
D	On site	Cuttings	1891	954953
D	On site	Cuttings	1947	924306
D	On site	Cuttings	1947	924306

ID	Location	Land Use	Date	Group ID
D	On site	Cuttings	1947	934749
E	On site	Railway Building	1938	962822
E	On site	Railway Building	1938	891921
E	On site	Railway Sidings	1938	934737
E	On site	Pumping Station	1906	822111
E	On site	Railway Sidings	1906	934737
E	On site	Railway Building	1906	980033
E	On site	Railway Station	1851	822932
E	On site	Railway Sidings	1925	934737
E	On site	Railway Building	1925	901660
E	On site	Railway Sidings	1892	924236
E	On site	Railway Building	1892	820012
E	On site	Pumping Station	1892	822110
E	On site	Railway Building	1955	820010
E	On site	Railway Building	1955	820011
E	On site	Railway Building	1947	919334
E	On site	Railway Building	1947	846575
F	On site	Railway Station	1938	946567
F	On site	Cuttings	1925	933692
F	On site	Railway Station	1892	938901
F	On site	Railway Building	1892	819998
F	On site	Railway Station	1992	846940
F	On site	Railway Station	1972	846940
F	On site	Railway Station	1984	846940
F	On site	Railway Station	1965	846940
F	On site	Railway Station	1955	879485
F	On site	Railway Station	1947	879485
F	On site	Railway Building	1947	820008

ID	Location	Land Use	Date	Group ID
G	On site	Railway Building	1906	851070
G	On site	Railway Building	1955	820009
G	On site	Railway Building	1947	899774
H	On site	Unspecified Pits	1906	811207
H	On site	Pits	1851	794116
I	On site	Goods Shed	1938	930210
I	On site	Railway Sidings	1938	987593
I	On site	Goods Shed	1926	930210
I	On site	Railway Sidings	1926	987593
I	On site	Railway Building	1906	988325
I	On site	Railway Sidings	1906	987593
I	On site	Railway Building	1891	988325
I	On site	Railway Sidings	1891	987593
I	On site	Railway Sidings	1965	964550
I	On site	Railway Sidings	1973	964550
I	On site	Railway Sidings	1955	890077
I	On site	Goods Shed	1947	922248
I	On site	Railway Sidings	1947	890077
J	On site	Railway Building	1938	961216
J	On site	Railway Building	1926	961216
J	On site	Railway Building	1906	961216
J	On site	Railway Sidings	1981	920191
J	On site	Railway Sidings	1994	854011
K	On site	Railway Station	1938	927690
K	On site	Railway Station	1926	927690
K	On site	Railway Station	1906	927690
K	On site	Railway Station	1891	927690
K	On site	Railway Station	1851	968934

ID	Location	Land Use	Date	Group ID
K	On site	Railway Station	1965	927829
K	On site	Railway Station	1973	927829
K	On site	Railway Station	1981	940925
K	On site	Railway Station	1994	940925
K	On site	Railway Station	1955	950910
K	On site	Railway Station	1947	986388
L	On site	Colliery	1987	919188
L	On site	Colliery	1975	968057
L	On site	Colliery	1967	893327
M	On site	Cuttings	1938	986151
M	On site	Cuttings	1906	957978
M	On site	Cuttings	1955	902738
M	On site	Cuttings	1925	878961
M	On site	Cuttings	1947	971639
N	On site	Cuttings	1938	930109
N	On site	Cuttings	1906	911604
N	On site	Cuttings	1992	930109
N	On site	Cuttings	1972	930109
N	On site	Cuttings	1984	930109
N	On site	Cuttings	1965	930109
N	On site	Cuttings	1892	911604
N	On site	Cuttings	1955	930109
N	On site	Cuttings	1925	971455
N	On site	Railway Sidings	1955	870382
N	On site	Railway Sidings	1947	870382
N	On site	Cuttings	1947	930109
O	On site	Cuttings	1938	856446
O	On site	Cuttings	1906	962933

ID	Location	Land Use	Date	Group ID
O	On site	Cuttings	1892	869580
O	On site	Cuttings	1955	963024
O	On site	Cuttings	1947	886879
P	On site	Unspecified Pits	1955	873024
P	On site	Pits	1851	794123
Q	On site	Cuttings	1967	935287
Q	On site	Cuttings	1987	861561
Q	On site	Cuttings	1975	935287
R	On site	Cuttings	1967	965543
R	On site	Cuttings	1987	869052
R	On site	Cuttings	1975	965543
S	On site	Cuttings	1967	922582
S	On site	Cuttings	1987	925427
S	On site	Cuttings	1975	922582
T	On site	Cuttings	1892	882226
U	On site	Cuttings	1892	870074
U	On site	Cuttings	1955	983460
U	On site	Cuttings	1925	964025
V	On site	Cuttings	1955	858638
V	On site	Railway Building	1973	922256
V	On site	Cuttings	1938	904741
V	On site	Cuttings	1926	980484
V	On site	Cuttings	1906	882385
V	On site	Cuttings	1891	875889
W	On site	Unspecified Depot	1981	865275
W	On site	Unspecified Depot	1994	867093
X	On site	Railway Sidings	1976	887909
X	On site	Railway Sidings	1989	918233

ID	Location	Land Use	Date	Group ID
Y	**On site**	**Colliery**	**1976**	**968057**
Y	**On site**	**Colliery**	**1989**	**919188**
Z	**On site**	**Railway Sidings**	**1992**	**854011**
Z	**On site**	**Colliery Yard**	**1992**	**946799**
Z	**On site**	**Railway Sidings**	**1972**	**869341**
Z	**On site**	**Railway Sidings**	**1984**	**920191**
Z	**On site**	**Colliery Yard**	**1984**	**884538**
AA	**On site**	**Printing Works**	**1947**	**868745**
AB	**On site**	**Cuttings**	**1938**	**926346**
AB	**On site**	**Cuttings**	**1926**	**926346**
AB	**On site**	**Cuttings**	**1906**	**926346**
AB	**On site**	**Cuttings**	**1891**	**926346**
AC	**On site**	**Cuttings**	**1947**	**908266**
AD	**On site**	**Unspecified Workings**	**1967**	**821947**
V	1m W	Railway Building	1981	897951
V	1m W	Railway Building	1994	897951
J	1m W	Railway Building	1947	961216
AF	1m N	Cuttings	1992	949950
AF	1m N	Cuttings	1972	944285
AF	1m N	Cuttings	1984	857663
AF	1m N	Cuttings	1965	917389
AA	3m W	Unspecified Commercial/Industrial	1938	983529
AA	3m W	Unspecified Commercial/Industrial	1926	983529
AA	3m W	Unspecified Commercial/Industrial	1906	983529
AA	3m W	Printing Works	1891	980825
W	3m W	Unspecified Depot	1973	858400
I	4m W	Goods Shed	1955	834666
AB	5m W	Cuttings	1955	849373

ID	Location	Land Use	Date	Group ID
F	6m NW	Cuttings	1892	948984
F	9m NW	Cuttings	1938	962127
F	9m NW	Cuttings	1906	892385
P	9m SE	Unspecified Pits	1967	992095
P	9m SE	Unspecified Pits	1987	867403
P	9m SE	Unspecified Pits	1975	933017
P	9m SE	Unspecified Pits	1955	919673
U	9m NW	Cuttings	1938	946755
U	9m NW	Cuttings	1906	870074
U	9m NW	Cuttings	1947	970121
AH	10m W	Unspecified Tank	1938	887402
AH	10m W	Unspecified Tank	1938	861724
AI	11m W	Railway Sidings	1967	908107
AI	11m W	Railway Sidings	1987	969799
AI	11m W	Railway Sidings	1975	908107
AA	11m W	Unspecified Works	1981	919020
AA	11m W	Unspecified Works	1994	919020
F	12m NW	Railway Sidings	1906	908822
AH	12m W	Unspecified Tank	1947	861724
AH	12m W	Unspecified Tank	1926	861724
AH	12m W	Unspecified Tank	1906	861724
P	12m SE	Unspecified Pits	1906	910169
P	12m SE	Unspecified Pits	1891	910169
I	13m W	Unspecified Works	1973	953568
J	13m W	Railway Building	1955	820013
AJ	14m W	Printing Works	1938	959653
AJ	14m W	Printing Works	1926	959653
AJ	14m W	Printing Works	1906	959653

ID	Location	Land Use	Date	Group ID
F	14m NW	Railway Building	1938	959468
U	15m NW	Cuttings	1992	891737
U	15m NW	Cuttings	1972	891737
U	15m NW	Cuttings	1984	891737
U	15m NW	Cuttings	1965	891737
F	15m NW	Railway Station	1906	822929
F	16m NW	Railway Building	1947	959468
I	16m W	Unspecified Works	1965	914643
I	16m W	Unspecified Works	1981	981005
I	16m W	Unspecified Works	1994	981005
AA	18m W	Unspecified Works	1965	885957
AA	18m W	Unspecified Works	1973	885957
AA	18m W	Unspecified Commercial/Industrial	1955	920174
AH	18m W	Unspecified Tank	1955	825127
13	19m E	Sand Pit	1851	797556
14	20m W	Cuttings	1891	795689
F	20m NW	Cuttings	1955	935335
AL	20m S	Cuttings	1967	912551
AL	20m S	Cuttings	1987	886250
AL	20m S	Cuttings	1975	912551
F	21m NW	Cuttings	1925	847497
AM	25m W	Unspecified Shaft	1987	906927
AM	25m W	Unspecified Shaft	1975	884160
F	25m NW	Railway Building	1955	819997
F	26m NW	Cuttings	1947	890462
F	26m NW	Cuttings	1992	867110
F	26m NW	Cuttings	1972	867110
F	26m NW	Cuttings	1984	867110

ID	Location	Land Use	Date	Group ID
F	26m NW	Cuttings	1965	867110
15	28m SE	Unspecified Ground Workings	1851	799979
F	28m NW	Railway Buildings	1906	833591
AJ	29m W	Printing Works	1955	912763
P	31m SE	Unspecified Pits	1938	869658
P	31m SE	Unspecified Pits	1926	915739
AN	32m NW	Unspecified Pit	1947	922253
AN	32m NW	Unspecified Pit	1947	922253
P	32m SE	Unspecified Pits	1926	965772
AP	35m NW	Unspecified Pit	1955	915129
17	37m SE	Pump	1851	827031
F	38m NW	Weighing Machine	1851	810048
M	38m N	Unspecified Tank	1955	940911
M	38m N	Unspecified Tank	1947	916328
M	39m N	Unspecified Tank	1925	885175
AQ	39m W	Magazine	1976	860859
AQ	39m W	Magazine	1989	880851
M	40m N	Unspecified Tank	1938	917077
M	40m N	Unspecified Tank	1906	966736
AO	46m W	Garage	1989	844154
P	49m SE	Unspecified Pits	1926	959159
P	49m SE	Unspecified Pits	1938	959159
P	49m SE	Unspecified Pits	1926	959159
18	54m SE	Unspecified Disused Workhouse	1987	802182
AR	57m W	Unspecified Mill	1906	810259
19	62m NW	Railway Sidings	1955	930071
F	64m NW	Railway Sidings	1925	846539
AS	66m NW	Unspecified Ground Workings	1938	906353

ID	Location	Land Use	Date	Group ID
F	67m NW	Railway Sidings	1938	939077
AS	67m NW	Unspecified Ground Workings	1925	853080
AS	70m NW	Unspecified Ground Workings	1947	963615
AS	70m NW	Unspecified Ground Workings	1947	963615
F	70m NW	Railway Sidings	1947	981975
20	73m E	Pump	1851	827010
AS	73m NW	Unspecified Ground Workings	1955	897197
AT	73m NW	Sand Pit	1938	890390
21	76m NW	Gravel Pit	1851	807807
W	78m W	Unspecified Heap	1965	803891
22	80m S	Disused Delph	1926	826505
AU	81m W	Unspecified Works	1955	947544
AT	83m NW	Old Sand Pit	1947	899342
AS	84m NW	Unspecified Ground Workings	1992	986040
AS	84m NW	Unspecified Ground Workings	1972	986040
AS	84m NW	Unspecified Ground Workings	1984	986040
AS	84m NW	Unspecified Ground Workings	1965	986040
AD	85m S	Unspecified Pit	1955	916686
AR	85m W	Corn Mill	1849	823133
AT	86m NW	Old Sand Pit	1955	899342
F	87m NW	Cuttings	1947	962127
AP	87m NW	Unspecified Pit	1947	953146
AP	87m NW	Unspecified Pit	1947	953146
AU	88m W	Unspecified Works	1947	937752
AU	88m W	Unspecified Works	1926	960792
AU	88m W	Unspecified Works	1906	960792
AU	88m W	Unspecified Works	1891	960792
AT	88m NW	Sand Pit	1906	935827

ID	Location	Land Use	Date	Group ID
AD	88m S	Unspecified Pit	1926	868256
AD	89m S	Unspecified Pit	1938	979484
AD	89m S	Unspecified Pit	1926	979484
AD	89m S	Unspecified Pit	1906	979484
AD	89m S	Unspecified Pit	1891	979484
AT	89m NW	Sand Pit	1926	935827
AV	93m S	Cuttings	1967	929341
AV	93m S	Cuttings	1987	983368
AV	93m S	Cuttings	1975	929341
AD	94m S	Sandstone Quarry	1851	837915
AT	98m NW	Unspecified Pit	1891	839806
AW	108m W	Unspecified Warehouses	1981	942907
AW	108m W	Unspecified Warehouses	1994	942907
AU	110m W	Unspecified Warehouses	1973	880614
AU	119m W	Unspecified Works	1938	924326
AU	119m W	Unspecified Ground Workings	1955	979916
AU	120m W	Unspecified Works	1938	924326
AU	125m W	Unspecified Ground Workings	1981	948326
AU	125m W	Unspecified Ground Workings	1994	948326
AU	126m W	Unspecified Ground Workings	1938	955712
23	127m SW	Sandstone Delf	1851	812653
24	131m W	Unspecified Ground Workings	1955	799967
AU	135m W	Unspecified Warehouses	1981	902251
AU	135m W	Unspecified Warehouses	1994	902251
25	146m NE	Rifle Range	1892	835005
AF	161m N	Cuttings	1925	909497
AZ	162m N	Cuttings	1938	890278
AZ	162m N	Cuttings	1906	955986

ID	Location	Land Use	Date	Group ID
27	164m N	Cuttings	1947	939111
AU	164m W	Pump House	1947	948091
AU	166m W	Pump House	1926	889775
AU	167m W	Pump House	1938	910180
AF	168m N	Cuttings	1955	884554
28	171m W	Sandstone Quarry	1851	837911
AU	182m W	Unspecified Tank	1938	986283
AU	182m W	Unspecified Tank	1938	893239
AU	184m W	Unspecified Tank	1926	986283
29	187m W	Refuse Heap	1965	828806
AU	191m W	Unspecified Tanks	1955	953586
AU	196m W	Unspecified Tanks	1947	953586
AC	196m NW	Water Works	1938	984496
AC	196m NW	Water Works	1926	984496
AC	196m NW	Water Works	1906	984496
AU	196m W	Unspecified Tanks	1938	894134
BA	197m NW	Cuttings	1938	884754
BA	197m NW	Cuttings	1926	884754
BA	197m NW	Cuttings	1906	884754
BA	197m NW	Cuttings	1891	884754
AU	198m W	Unspecified Tanks	1938	859231
AU	198m W	Unspecified Tanks	1926	913806
AI	200m W	Unspecified Tank	1967	977617
AI	200m W	Unspecified Tank	1987	845046
AI	200m W	Unspecified Tank	1975	977617
AC	207m NW	Unspecified Works	1965	830327
BB	210m NW	Unspecified Pit	1938	839805
BB	211m NW	Unspecified Ground Workings	1925	906496

ID	Location	Land Use	Date	Group ID
AC	213m NW	Water Works	1955	906124
AC	214m NW	Cuttings	1955	873048
AU	218m W	Sandstone Quarry	1849	837913
BB	221m NW	Unspecified Ground Workings	1992	860973
BB	221m NW	Unspecified Ground Workings	1972	860973
BB	221m NW	Unspecified Ground Workings	1984	860973
BB	221m NW	Unspecified Ground Workings	1965	860973
AC	225m NW	Water Works	1947	984084
BC	230m NW	Cuttings	1992	920843
BC	230m NW	Cuttings	1972	920843
BC	230m NW	Cuttings	1984	920843
BC	230m NW	Cuttings	1965	920843
BC	234m NW	Cuttings	1955	873048
AC	246m NW	Unspecified Tank	1938	865963
AC	246m NW	Unspecified Tank	1926	865963
AC	246m NW	Unspecified Tank	1906	865963
AC	247m NW	Unspecified Tank	1947	875911
BD	248m SW	Railway Building	1987	856211
BD	248m SW	Railway Building	1975	849934
AI	253m W	Unspecified Tank	1967	871602
AI	253m W	Unspecified Tank	1987	885238
AI	253m W	Unspecified Tank	1975	871602
AC	264m NW	Unspecified Tank	1965	921543
AC	264m NW	Unspecified Tank	1955	861182
BE	280m S	Unspecified Hole	1938	885184
BE	280m S	Unspecified Hole	1926	885184
BE	280m S	Unspecified Hole	1906	885184
30	281m SW	Unspecified Workings	1987	821946

ID	Location	Land Use	Date	Group ID
BF	282m NW	Unspecified Pit	1925	883857
BF	283m NW	Unspecified Pit	1938	887753
BF	284m NW	Unspecified Pit	1947	887753
BF	284m NW	Unspecified Pit	1947	887753
BF	285m NW	Unspecified Pit	1955	971015
BG	286m W	Unspecified Mill	1891	810258
BH	287m E	Unspecified Pit	1938	912438
BH	287m E	Unspecified Pit	1926	912438
BH	287m E	Unspecified Pit	1906	912438
BH	287m E	Unspecified Pit	1926	954941
BE	288m S	Unspecified Ground Workings	1926	799977
32	297m SW	Refuse Heap	1989	828886
BG	299m W	Corn Mill	1906	823135
T	300m NE	Sand Pit	1851	797558
BF	300m NW	Pump	1851	826998
BH	309m E	Pump	1851	827006
BI	319m S	Nursery	1906	943447
BJ	323m NE	Pits	1851	794117
34	326m NW	Gravel Pit	1851	807806
35	327m SW	Refuse Heap	1965	828888
BJ	328m NE	Unspecified Pits	1906	811206
BI	334m S	Nursery	1891	943447
36	338m SW	Unspecified Pit	1989	839796
37	347m NW	Sandstone Quarry	1851	837912
BK	361m NW	Unspecified Ground Workings	1992	863690
BK	361m NW	Unspecified Ground Workings	1972	863690
BK	361m NW	Unspecified Ground Workings	1984	863690
BE	363m S	Unspecified Hole	1955	969351

ID	Location	Land Use	Date	Group ID
39	364m NW	Railway Building	1906	820000
BG	366m W	Cotton Mill	1849	797884
40	371m NE	Cuttings	1851	882651
BM	375m SE	Cuttings	1967	969307
BM	375m SE	Cuttings	1987	985750
BM	375m SE	Cuttings	1975	969307
BN	375m N	Old Sand Pit	1925	847561
BN	377m N	Old Sand Pit	1938	869983
BN	379m N	Old Sand Pit	1947	869983
BN	385m N	Old Sand Pit	1955	861635
BN	387m N	Refuse Heap	1972	892063
BN	387m N	Refuse Heap	1965	892063
BP	394m W	Unspecified Works	1965	830306
BP	394m W	Sewage Works	1955	971651
41	395m W	Sewage Works	1947	971651
42	398m E	Pump	1851	827007
BN	400m N	Sand Pit	1906	797557
BR	419m W	Refuse Heap	1989	937901
BP	421m W	Sewage Works	1891	975979
BP	421m W	Unspecified Tanks	1965	858649
BP	421m W	Unspecified Tanks	1955	955539
44	422m SW	Nursery	1906	974701
BR	422m W	Refuse Heap	1976	872192
BP	425m W	Filter Beds	1947	814568
BS	426m NW	Unspecified Pit	1992	875984
BS	426m NW	Unspecified Pit	1972	875984
BS	426m NW	Unspecified Pit	1984	875984
BS	426m NW	Unspecified Pit	1965	875984

ID	Location	Land Use	Date	Group ID
BT	428m N	Refuse Heap	1965	828856
BP	433m W	Sewage Works	1938	985763
BP	433m W	Sewage Works	1906	975979
BP	433m W	Sewage Works	1938	978159
BT	435m N	Unspecified Disused Pit	1992	975502
BT	435m N	Unspecified Ground Workings	1972	799968
BT	435m N	Unspecified Disused Pit	1984	975502
BP	435m W	Sewage Works	1926	905080
BP	438m W	Filter Beds	1947	814567
BN	443m N	Unspecified Pit	1972	979923
BN	443m N	Unspecified Pit	1965	979923
BP	455m W	Filter Beds	1947	814569
BU	462m W	Pumping Station	1976	903656
BU	462m W	Pumping Station	1989	934650
BV	465m NW	Sandstone Quarry	1851	837906
BP	466m W	Filter Beds	1947	814570
BW	472m SW	Unspecified Disused Mill	1955	918596
BX	477m S	Cuttings	1967	948518
BX	477m S	Cuttings	1987	968269
BX	477m S	Cuttings	1975	948518
BW	477m SW	Unspecified Disused Mill	1926	918536
BU	481m W	Unspecified Tanks	1955	850194
BU	482m W	Unspecified Tanks	1947	850194
BP	483m W	Filter Beds	1947	814566
BV	486m NW	Boat House	1938	947611
BV	486m NW	Boat House	1926	947611
BV	486m NW	Boat House	1906	947611
45	488m NW	Railway Building	1938	819999

ID	Location	Land Use	Date	Group ID
BV	488m NW	Boat House	1947	970607
BZ	488m W	Cemetery	1938	959395
BZ	489m W	Cemetery	1938	959395
BZ	489m W	Cemetery	1965	974070
BZ	489m W	Cemetery	1976	974070
BZ	489m W	Cemetery	1989	934164
BZ	489m W	Cemetery	1955	862227
BZ	490m W	Cemetery	1947	959395
BZ	490m W	Cemetery	1926	959395
BP	490m W	Filter Beds	1947	814565
CA	490m SW	Unspecified Disused Mill	1938	859056
CA	492m SW	Unspecified Disused Mill	1926	859056
CA	492m SW	Unspecified Mill	1906	810257
BZ	499m W	Cemetery	1891	937574

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m **73**

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 31 >**

ID	Location	Land Use	Date	Group ID
D	**On site**	**Unspecified Tank**	**1907**	**128257**
D	**On site**	**Unspecified Tank**	**1959**	**113745**
D	**On site**	**Unspecified Tank**	**1928**	**128257**
F	**On site**	**Unspecified Tank**	**1907**	**138754**
F	**On site**	**Unspecified Tank**	**1959**	**136205**
F	**On site**	**Unspecified Tank**	**1966**	**136205**

ID	Location	Land Use	Date	Group ID
F	**On site**	**Unspecified Tank**	**1988**	**142313**
F	**On site**	**Unspecified Tank**	**1928**	**138754**
AE	**On site**	**Cooling Tanks**	**1972**	**138707**
AE	13m W	Cooling Tanks	1993	138855
AE	13m W	Cooling Tanks	1986	126125
AE	13m W	Cooling Tanks	1991	126125
AH	15m W	Unspecified Tank	1907	125750
AH	15m W	Unspecified Tank	1928	125750
AE	15m W	Cooling Tanks	1986	120655
I	21m W	Tanks	1972	106029
AH	24m W	Unspecified Tank	1972	130773
AH	24m W	Unspecified Tank	1996	137470
AH	24m W	Unspecified Tank	1996	132480
AH	24m W	Unspecified Tank	1995	136810
AH	24m W	Unspecified Tank	1999	139207
AH	24m W	Unspecified Tank	1960	144477
Y	26m W	Unspecified Tank	1972	113867
16	28m E	Unspecified Tank	1994	113869
M	38m N	Unspecified Tank	1907	145431
M	38m N	Unspecified Tank	1928	145431
M	45m N	Unspecified Tank	1959	140485
M	45m N	Unspecified Tank	1966	140485
M	53m N	Unspecified Tank	1992	113738
AA	84m W	Tank (Fuel)	1972	120534
AA	88m W	Unspecified Tank	1907	113746
AO	92m W	Tanks	1972	106047
AO	100m W	Tanks	1972	106055
AJ	101m W	Tanks	1972	106028

ID	Location	Land Use	Date	Group ID
AX	113m W	Unspecified Tank	1986	138443
AX	113m W	Unspecified Tank	1991	138443
AX	114m W	Unspecified Tank	1993	137554
AO	119m W	Unspecified Tank	1972	113865
AY	133m W	Unspecified Tank	1972	128682
AY	134m W	Unspecified Tank	1990	128682
AY	134m W	Unspecified Tank	1991	128682
AU	168m W	Tanks	1907	106046
AU	182m W	Unspecified Tank	1928	113863
AU	196m W	Tanks	1928	106067
AI	198m W	Unspecified Tank	1991	132294
AU	200m W	Unspecified Tank	1928	113864
AI	200m W	Unspecified Tank	1993	132294
AI	203m W	Unspecified Tank	1964	132013
AI	203m W	Unspecified Tank	1961	132013
AI	203m W	Unspecified Tank	1986	132013
AI	240m W	Unspecified Tank	1991	143560
AI	242m W	Unspecified Tank	1993	143560
AC	246m NW	Unspecified Tank	1907	113744
AC	246m NW	Tanks	1928	106030
AI	249m W	Unspecified Tank	1961	135861
AI	251m W	Unspecified Tank	1991	130521
AI	252m W	Unspecified Tank	1993	130521
AI	256m W	Unspecified Tank	1991	136744
AI	257m W	Unspecified Tank	1993	136744
AC	259m NW	Unspecified Tank	1960	113743
AI	268m W	Unspecified Tank	1991	141776
AI	269m W	Unspecified Tank	1993	141776

ID	Location	Land Use	Date	Group ID
31	286m W	Unspecified Tank	1907	113747
33	307m NW	Unspecified Tank	1907	113748
BO	389m NW	Unspecified Tank	1907	132886
BO	389m NW	Unspecified Tank	1928	132886
BQ	413m E	Unspecified Tank	1994	137049
BQ	415m E	Unspecified Tank	1985	137049
BU	478m W	Tanks	1960	106056
BU	485m W	Septic Tanks	1928	120465
BY	488m N	Unspecified Tank	1907	142446
BY	488m N	Unspecified Tank	1928	142446
BW	491m SW	Unspecified Tank	1928	113868

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	**16**

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

Features are displayed on the Past land use - un-grouped map on **page 31 >**

ID	Location	Land Use	Date	Group ID
AG	3m W	Electricity Substation	1995	66942
AG	29m W	Electricity Substation	1972	66942
AG	56m W	Electricity Substation	1993	61443
AG	64m W	Electricity Substation	1986	75023
AG	64m W	Electricity Substation	1991	75023
AT	91m NW	Electricity Substation	1988	61437
AU	128m W	Electricity Substation	1984	84465
AU	128m W	Electricity Substation	1990	84465
AU	128m W	Electricity Substation	1990	84465

ID	Location	Land Use	Date	Group ID
AC	214m NW	Electricity Substation	1972	61438
38	355m N	Electricity Substation	1970	61436
BL	361m W	Electricity Substation	1972	72884
BL	362m W	Electricity Substation	1990	72884
BL	362m W	Electricity Substation	1990	72884
BL	362m W	Electricity Substation	1990	72884
BL	362m W	Electricity Substation	1990	72884

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m	**1**

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'.

Features are displayed on the Past land use - un-grouped map on **page 31 >**

ID	Location	Land Use	Date	Group ID
AA	84m W	Tank (Fuel)	1972	1537

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m	**14**

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'.

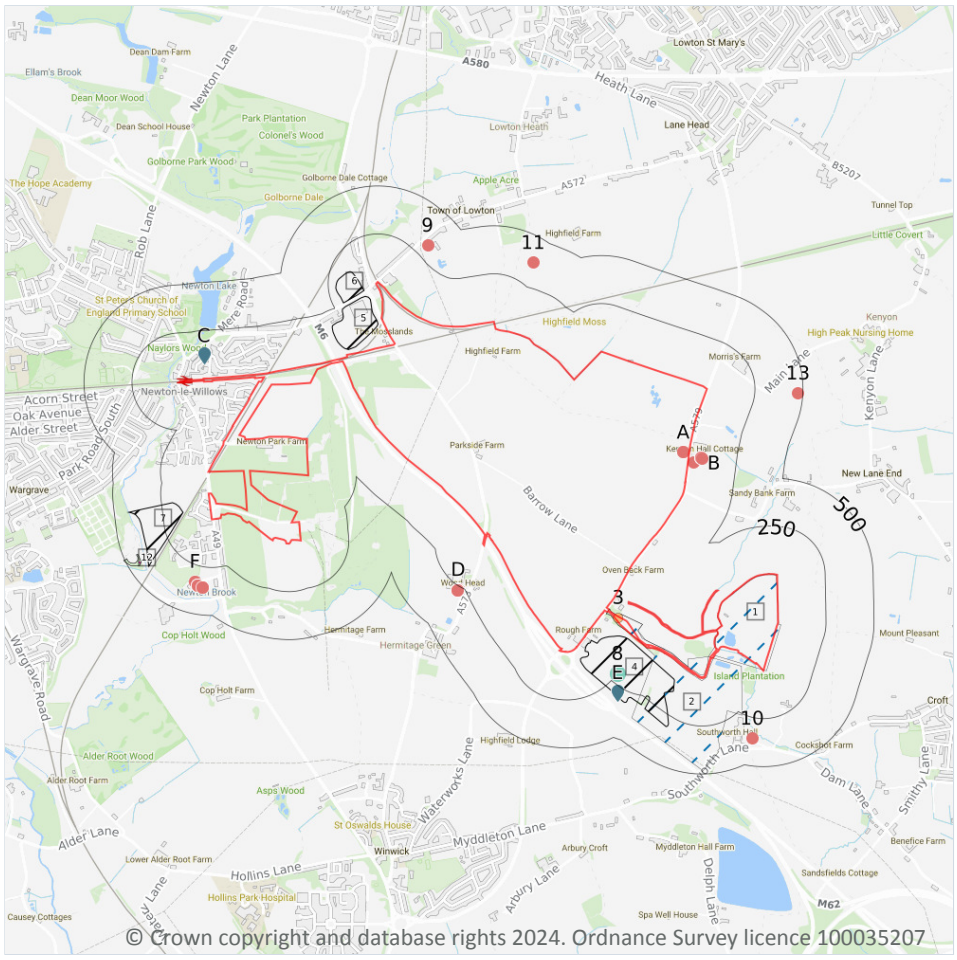
Features are displayed on the Past land use - un-grouped map on **page 31 >**

ID	Location	Land Use	Date	Group ID
K	4m W	Garage	1990	25628
K	4m W	Garage	1990	25628
W	7m W	Motor Body Repair Depot	1972	20630

ID	Location	Land Use	Date	Group ID
AK	18m W	Garage	1960	23232
AK	20m W	Garage	1972	23748
AK	24m W	Garage	1984	27608
AK	24m W	Garage	1990	27608
AK	24m W	Garage	1990	27608
AO	34m W	Garage	1972	24039
AO	35m W	Garage	1960	22012
K	47m W	Garage	1990	25172
K	47m W	Garage	1990	25172
26	159m NW	Garage	1972	20191
43	402m NW	Garage	1960	20190

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



3.1 Active or recent landfill

Records within 500m	2

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

Features are displayed on the Waste and landfill map on **page 55 >**

ID	Location	Details	
1	**On site**	**Operator: Gaskell Bros (Wm. & C.) Limited** **Site Address: Gaskell Bros (Wm. & C.) Limited, Winwick Lane, Winwick, Warrington, Cheshire, WA3 7EW**	**WML Number: 50490** **EPR Reference: 627902** **Landfill type: L05: Inert LF** **Status: Issued** **IPPC Reference: -** **EPR Number: EA/EPR/QP3994CH**

ID	Location	Details	
2	**On site**	**Operator: Gaskell Bros (Wm. & C.) Limited** **Site Address: Gaskell Bros (Wm. & C.) Limited, Land/premises At, Winwick Lane, Croft, Warrington, Cheshire, WA3 7EW**	**WML Number: 53562** **EPR Reference: 630924** **Landfill type: A05: Landfill taking Non-Biodegradeable Wastes** **Status: Closure** **IPPC Reference: -** **EPR Number: EA/EPR/VP3092CW**

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

3.2 Historical landfill (BGS records)

Records within 500m	**1**

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.

Features are displayed on the Waste and landfill map on **page 55 >**

ID	Location	Address	BGS Number	Risk	Waste Type
8	204m SE	Borrow Pit, Waterworks Lane, Winwick, Warrington	2118	Risk to major aquifer	N/A

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	**1**

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

Features are displayed on the Waste and landfill map on **page 55 >**

ID	Location	Site address	Source	Data type
12	426m W	Refuse Tip	1972 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	4

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

Features are displayed on the Waste and landfill map on **page 55 >**

ID	Location	Details		
4	25m SE	Site Address: Barrow Pit, Waterworks Lane, Winwick, Warrington, Cheshire Licence Holder Address: -	Waste Licence: - Site Reference: 60167 Waste Type: Inert, Industrial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: Gaskell Brotheers (William and C) Limited Licence Holder: - First Recorded 01/10/1968 Last Recorded: -
5	25m NW	Site Address: Southworth Road / Parkside Road, St. Helens, Merseyside Licence Holder Address: -	Waste Licence: - Site Reference: GDO M186 Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded 01/01/1955 Last Recorded: 01/01/1965
6	71m NW	Site Address: Southworth Road / Parkside Road, St. Helens, Merseyside Licence Holder Address: -	Waste Licence: - Site Reference: GDO M186 Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded 31/12/1955 Last Recorded: 31/12/1965
7	144m W	Site Address: Newton Brook, St. Helens, Merseyside Licence Holder Address: -	Waste Licence: - Site Reference: GDO M190 Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded 31/12/1961 Last Recorded: 31/12/1971

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

3.5 Historical waste sites

Records within 500m	1

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 55 >**

ID	Location	Address	Further Details	Date
3	**On site**	**Site Address: Southworth Quarry, Winwick Lane, Croft, WARRINGTON, Cheshire, WA3 7EW**	**Type of Site: Waste (Change Of Use)** **Planning application reference: 96/34537** **Description: Change of use of land to include recycling of suitable inert waste for secondary aggregate production. An application (ref: 96/34537) for Detailed Planning permission was submitted to Warrington B.C. on 15th February 1996.** **Data source: Historic Planning Application** **Data Type: Point**	**-**

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

3.6 Licensed waste sites

Records within 500m	8

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

Features are displayed on the Waste and landfill map on **page 55 >**

ID	Location	Details		
C	115m W	Site Name: Mcfall Salvage Company Ltd Site Address: Land/premises At, Rosemary Drive, Off Southworth Road, Newton Le Willows, Merseyside, WA12 0DH Correspondence Address: -	Type of Site: Metal Recycling Site (Vehicle Dismantler) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MCF001 EPR reference: EA/EPR/VP3994CE/S002 Operator: Mcfall Salvage Company Ltd Waste Management licence No: 50403 Annual Tonnage: 0	Issue Date: 06/07/2005 Effective Date: - Modified: - Surrendered Date: 08/05/2014 Expiry Date: - Cancelled Date: - Status: Surrendered

ID	Location	Details		
C	115m W	Site Name: McFall Salvage Co Ltd Site Address: Land/premises At, Rosemary Drive, Newton Le Willows, Merseyside, WA12 0DH Correspondence Address: -	Type of Site: Metal Recycling Site (Vehicle Dismantler) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 656237 EPR reference: EA/EPR/VP3994CE Operator: Mcfall Salvage Co Limited Waste Management licence No: 50403 Annual Tonnage: 0	Issue Date: 06/07/2005 Effective Date: 06/07/2005 Modified: - Surrendered Date: 06/07/2005 Expiry Date: - Cancelled Date: - Status: Surrendered
E	284m S	Site Name: Southworth Quarry Landfill P P C Site Address: Winwick Lane, Winwick, Warrington, Cheshire, WA3 7EW Correspondence Address: Bryn Road Garage, Bryn Road, Ashton In Makerfield, Nr Wigan, Lancashire, WN4 8BT	Type of Site: Landfill taking Non-Biodegradeable Wastes Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SQL001 EPR reference: - Operator: Gaskell Brothers (W M & C) Ltd Waste Management licence No: 50490 Annual Tonnage: 0	Issue Date: 06/11/2006 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
E	284m S	Site Name: Southworth Quarry Landfill Site Site Address: Land/premises At, Winwick Lane, Croft, Warrington, Cheshire, WA3 7EW Correspondence Address: -	Type of Site: Landfill taking Non-Biodegradeable Wastes Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: GBL001 EPR reference: EA/EPR/VP3092CW/V002 Operator: Gaskell Bros Ltd Waste Management licence No: 53562 Annual Tonnage: 5000	Issue Date: 27/05/1988 Effective Date: - Modified: 27/11/2014 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Closure
E	284m S	Site Name: Southworth Quarry Landfill Site Site Address: Land/premises At, Winwick Lane, Croft, Warrington, Cheshire, WA3 7EW Correspondence Address: -	Type of Site: Landfill taking Non-Biodegradeable Wastes Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: GBL001 EPR reference: EA/EPR/VP3092CW/V002 Operator: Gaskell Bros Ltd Waste Management licence No: 53562 Annual Tonnage: 5000	Issue Date: 27/05/1988 Effective Date: - Modified: 27/11/2014 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Closure

ID	Location	Details		
E	284m S	Site Name: Southworth Quarry Landfill P P C Site Address: Winwick Lane, Winwick, Warrington, Cheshire, WA3 7EW Correspondence Address: -	Type of Site: Inert LF Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SQL001 EPR reference: EA/EPR/QP3994CH/A001 Operator: Gaskell Brothers (W M & C) Ltd Waste Management licence No: 50490 Annual Tonnage: 500000	Issue Date: 06/11/2006 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
E	284m S	Site Name: Southworth Quarry Landfill P P C Site Address: Winwick Lane, Winwick, Warrington, Cheshire, WA3 7EW Correspondence Address: -	Type of Site: Inert LF Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 627902 EPR reference: EA/EPR/QP3994CH Operator: Gaskell Bros (Wm. & C.) Limited Waste Management licence No: 50490 Annual Tonnage: 500000	Issue Date: 06/11/2006 Effective Date: 06/11/2006 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
E	284m S	Site Name: Southworth Quarry Landfill Site Site Address: Land/premises At, Winwick Lane, Croft, Warrington, Cheshire, WA3 7EW Correspondence Address: -	Type of Site: Landfill taking Non-Biodegradeable Wastes Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 630924 EPR reference: EA/EPR/VP3092CW Operator: Gaskell Bros (Wm. & C.) Limited Waste Management licence No: 53562 Annual Tonnage: 5000	Issue Date: 27/05/1988 Effective Date: 27/05/1988 Modified: 27/05/1988 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Closure

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

3.7 Waste exemptions

Records within 500m	**68**

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 55 >**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	**On site**	**Kenyon Hall Winwick Lane WARRINGTON WA3 7ED**	**EPR/AE5046UY/A001**	**Storing waste exemption**	**Non-Agricultural Waste Only**	**Storage of waste in a secure place**
A	**On site**	**Kenyon Hall Winwick Lane WARRINGTON WA3 7ED**	**EPR/AE5046UY/A001**	**Using waste exemption**	**Non-Agricultural Waste Only**	**Use of waste for a specified purpose**
A	**On site**	**Kenyon Hall Winwick Lane WARRINGTON WA3 7ED**	**EPR/AE5046UY/A001**	**Using waste exemption**	**Non-Agricultural Waste Only**	**Spreading waste on agricultural land to confer benefit**
B	27m E	dolly bridge stud, winnick lane, lowton, warrington, wa37ed	WEX285642	Using waste exemption	On a Farm	Use of waste in construction
B	63m E	Kenyon Hall Winwick Lane Warrington Cheshire WA3 7ED	EPR/JF0538LG/A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of waste from dredging of inland waters
B	63m E	Kenyon Hall Winwick Lane Warrington Cheshire WA3 7ED	EPR/JF0538LG/A001	Treating waste exemption	Agricultural Waste Only	Aerobic composting and associated prior treatment
B	63m E	Kenyon Hall Winwick Lane Warrington Cheshire WA3 7ED	EPR/JF0538LG/A001	Treating waste exemption	Agricultural Waste Only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
B	63m E	Kenyon Hall Winwick Lane Warrington Cheshire WA3 7ED	EPR/JF0538LG/A001	Using waste exemption	Agricultural Waste Only	Use of waste in construction
B	63m E	Kenyon Hall Winwick Lane Warrington Cheshire WA3 7ED	EPR/JF0538LG/A001	Using waste exemption	Agricultural Waste Only	Use of waste for a specified purpose
B	63m E	Kenyon Hall Winwick Lane Warrington Cheshire WA3 7ED	EPR/JF0538LG/A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
B	63m E	Kenyon Hall Winwick Lane Warrington Cheshire WA3 7ED	EPR/JF0538LG/A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
B	63m E	Kenyon Hall Winwick Lane Warrington Cheshire WA3 7ED	EPR/JF0538LG/A001	Using waste exemption	Agricultural Waste Only	Spreading waste on agricultural land to confer benefit

ID	Location	Site	Reference	Category	Sub-Category	Description
B	64m E	dolly bridge stud, winnick lane, lowton, warrington, wa37ed	WEX148195	Using waste exemption	On a Farm	Use of waste in construction
B	68m E	KENYON HALL, WINWICK LANE, CROFT, WARRINGTON, WA3 7ED	WEX236064	Using waste exemption	On a Farm	Use of waste for a specified purpose
D	270m SW	Wood Head Farm Parkside Road WARRINGTON WA2 8SU	EPR/BH0273GH/A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of waste from dredging of inland waters
D	270m SW	Wood Head Farm Parkside Road WARRINGTON WA2 8SU	EPR/BH0273GH/A001	Treating waste exemption	Agricultural Waste Only	Aerobic composting and associated prior treatment
D	270m SW	Wood Head Farm Parkside Road WARRINGTON WA2 8SU	EPR/BH0273GH/A001	Treating waste exemption	Agricultural Waste Only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
D	270m SW	Wood Head Farm Parkside Road WARRINGTON WA2 8SU	EPR/BH0273GH/A001	Using waste exemption	Agricultural Waste Only	Use of waste in construction
D	270m SW	Wood Head Farm Parkside Road WARRINGTON WA2 8SU	EPR/BH0273GH/A001	Using waste exemption	Agricultural Waste Only	Use of waste for a specified purpose
D	270m SW	Wood Head Farm Parkside Road WARRINGTON WA2 8SU	EPR/BH0273GH/A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
D	270m SW	Wood Head Farm Parkside Road WARRINGTON WA2 8SU	EPR/BH0273GH/A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
D	270m SW	Wood Head Farm Parkside Road WARRINGTON WA2 8SU	EPR/BH0273GH/A001	Using waste exemption	Agricultural Waste Only	Spreading waste on agricultural land to confer benefit
D	271m SW	Woodhead, Hermitage Green, Warrington, Cheshire, WA2 8SU	WEX128795	Storing waste exemption	On a farm	Storage of waste in secure containers
D	271m SW	Woodhead, Hermitage Green, Warrington, Cheshire, WA2 8SU	WEX128795	Storing waste exemption	On a farm	Storage of waste in a secure place
D	271m SW	Woodhead, Hermitage Green, Warrington, Cheshire, WA2 8SU	WEX128795	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising

ID	Location	Site	Reference	Category	Sub-Category	Description
D	271m SW	Woodhead, Hermitage Green, Warrington, Cheshire, WA2 8SU	WEX128795	Using waste exemption	On a farm	Use of waste for a specified purpose
D	271m SW	Woodhead, Hermitage Green, Warrington, Cheshire, WA2 8SU	WEX128795	Treating waste exemption	On a farm	Crushing and emptying waste vehicle oil filters
D	274m SW	WOOD HEAD FARM, PARKSIDE ROAD, WINWICK, WARRINGTON, WA2 8SU	WEX312390	Using waste exemption	On a farm	Use of waste in construction
D	274m SW	WOOD HEAD FARM, PARKSIDE ROAD, WINWICK, WARRINGTON, WA2 8SU	WEX312390	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
D	274m SW	WOOD HEAD FARM, PARKSIDE ROAD, WINWICK, WARRINGTON, WA2 8SU	WEX312390	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
D	274m SW	-	WEX268601	Using waste exemption	On a farm	Use of waste for a specified purpose
D	274m SW	-	WEX268601	Storing waste exemption	On a farm	Storage of waste in a secure place
D	274m SW	-	WEX268601	Storing waste exemption	On a farm	Storage of waste in secure containers
D	274m SW	-	WEX268601	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
D	274m SW	WOOD HEAD FARM, PARKSIDE ROAD, WINWICK, WARRINGTON, WA2 8SU	WEX312390	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
D	274m SW	WOOD HEAD FARM, PARKSIDE ROAD, WINWICK, WARRINGTON, WA2 8SU	WEX312390	Disposing of waste exemption	On a farm	Burning waste in the open
D	274m SW	-	WEX268601	Treating waste exemption	On a farm	Crushing and emptying waste vehicle oil filters

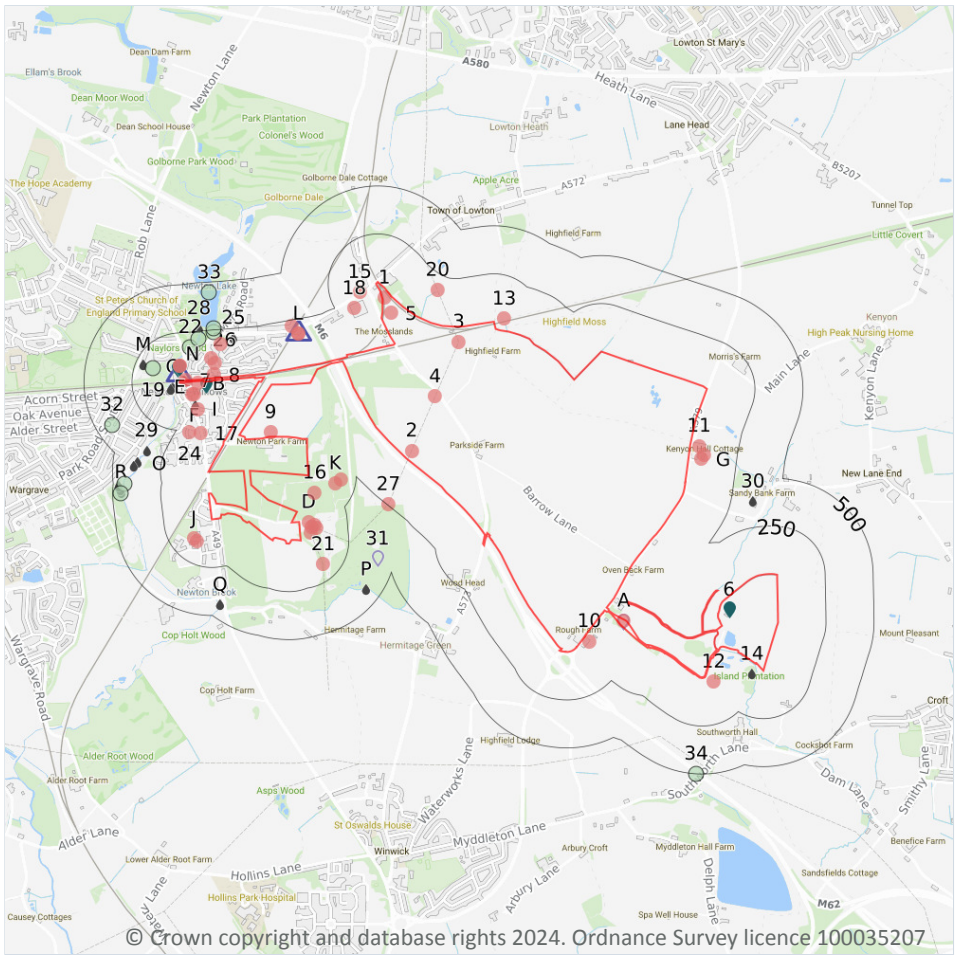
ID	Location	Site	Reference	Category	Sub-Category	Description
D	274m SW	WOOD HEAD FARM, PARKSIDE ROAD, WINWICK, WARRINGTON, WA2 8SU	WEX178423	Using waste exemption	On a farm	Use of waste in construction
D	274m SW	WOOD HEAD FARM, PARKSIDE ROAD, WINWICK, WARRINGTON, WA2 8SU	WEX178423	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
D	274m SW	WOOD HEAD FARM, PARKSIDE ROAD, WINWICK, WARRINGTON, WA2 8SU	WEX178423	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
D	274m SW	WOOD HEAD FARM, PARKSIDE ROAD, WINWICK, WARRINGTON, WA2 8SU	WEX014498	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
D	274m SW	WOOD HEAD FARM, PARKSIDE ROAD, WINWICK, WARRINGTON, WA2 8SU	WEX014498	Using waste exemption	On a farm	Use of waste in construction
D	274m SW	WOOD HEAD FARM, PARKSIDE ROAD, WINWICK, WARRINGTON, WA2 8SU	WEX014498	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
D	274m SW	WOOD HEAD FARM, PARKSIDE ROAD, WINWICK, WARRINGTON, WA2 8SU	WEX178423	Disposing of waste exemption	On a farm	Burning waste in the open
D	274m SW	WOOD HEAD FARM, PARKSIDE ROAD, WINWICK, WARRINGTON, WA2 8SU	WEX178423	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
D	274m SW	WOOD HEAD FARM, PARKSIDE ROAD, WINWICK, WARRINGTON, WA2 8SU	WEX014498	Disposing of waste exemption	On a farm	Burning waste in the open
D	274m SW	WOOD HEAD FARM, PARKSIDE ROAD, WINWICK, WARRINGTON, WA2 8SU	WEX014498	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit

ID	Location	Site	Reference	Category	Sub-Category	Description
9	313m NW	Wards Place Farm Lateley Common Warrington Cheshire WA3 5PA	EPR/WE5688BD/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
F	338m W	RED BANK FARM, WINWICK ROAD, NEWTON-LE-WILLOWS, WA12 8DU	WEX014194	Using waste exemption	On a farm	Use of waste in construction
F	338m W	RED BANK FARM, WINWICK ROAD, NEWTON-LE-WILLOWS, WA12 8DU	WEX014194	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
F	354m W	RED BANK FARM, WINWICK ROAD, NEWTON-LE-WILLOWS, WA12 8DU	WEX293363	Treating waste exemption	On a Farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
F	354m W	RED BANK FARM, WINWICK ROAD, NEWTON-LE-WILLOWS, WA12 8DU	WEX376140	Using waste exemption	On a farm	Use of waste in construction
F	354m W	RED BANK FARM, WINWICK ROAD, NEWTON-LE-WILLOWS, WA12 8DU	WEX376140	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
F	354m W	RED BANK FARM, WINWICK ROAD, NEWTON-LE-WILLOWS, WA12 8DU	WEX376140	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
F	354m W	RED BANK FARM, WINWICK ROAD, NEWTON-LE-WILLOWS, WA12 8DU	WEX376140	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
F	354m W	RED BANK FARM, WINWICK ROAD, NEWTON-LE-WILLOWS, WA12 8DU	WEX376140	Treating waste exemption	On a farm	Recovery of scrap metal
F	354m W	RED BANK FARM, WINWICK ROAD, NEWTON-LE-WILLOWS, WA12 8DU	WEX376140	Disposing of waste exemption	On a farm	Burning waste in the open

ID	Location	Site	Reference	Category	Sub-Category	Description
F	354m W	RED BANK FARM, WINWICK ROAD, NEWTON-LE-WILLOWS, WA12 8DU	WEX174633	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
F	354m W	RED BANK FARM, WINWICK ROAD, NEWTON-LE-WILLOWS, WA12 8DU	WEX174633	Using waste exemption	On a farm	Use of waste in construction
F	354m W	RED BANK FARM, WINWICK ROAD, NEWTON-LE-WILLOWS, WA12 8DU	WEX154711	Treating waste exemption	On a Farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
F	354m W	RED BANK FARM, WINWICK ROAD, NEWTON-LE-WILLOWS, WA12 8DU	WEX174633	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
F	360m W	Red Bank Farm Winwick Road Newton-le-Willows Merseyside WA12 8DU	EPR/FH0575MX/A001	Treating waste exemption	Agricultural Waste Only	Aerobic composting and associated prior treatment
F	360m W	Red Bank Farm Winwick Road Newton-le-Willows Merseyside WA12 8DU	EPR/FH0575MX/A001	Using waste exemption	Agricultural Waste Only	Use of waste in construction
F	360m W	Red Bank Farm Winwick Road Newton-le-Willows Merseyside WA12 8DU	EPR/FH0575MX/A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
F	360m W	Red Bank Farm Winwick Road Newton-le-Willows Merseyside WA12 8DU	EPR/FH0575MX/A001	Using waste exemption	Agricultural Waste Only	Spreading waste on agricultural land to confer benefit
10	360m SE	Southworth Hall Farm Southworth Lane Warrington Cheshire WA3 7BX	EPR/MF0636CQ/A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
11	367m N	-	WEX085395	Storing waste exemption	On a farm	Storage of sludge
13	474m E	-	WEX245795	Storing waste exemption	On a farm	Storage of sludge

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

4 Current industrial land use



4.1 Recent industrial land uses

Records within 250m	44

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 67 >**

ID	Location	Company	Address	Activity	Category
1	On site	Tank	Merseyside, WA3	Tanks (Generic)	Industrial Features
2	On site	Pylon	Merseyside, WA3	Electrical Features	Infrastructure and Facilities
3	On site	Pylon	Merseyside, WA2	Electrical Features	Infrastructure and Facilities

ID	Location	Company	Address	Activity	Category
4	**On site**	**Pylon**	**Merseyside, WA3**	**Electrical Features**	**Infrastructure and Facilities**
5	**On site**	**Mast (Telecommunication)**	**Merseyside, WA2**	**Telecommunications Features**	**Infrastructure and Facilities**
A	**On site**	**Gaskell Bros**	**Borrow Pit, Winwick Lane, Croft, Warrington, Cheshire, WA3 7EW**	**Unspecified Quarries Or Mines**	**Extractive Industries**
7	2m W	Newton-Le-Willows Rail Station	Merseyside, WA12	Railway Stations, Junctions and Halts	Public Transport, Stations and Infrastructure
B	11m W	Mast (Telecommunication)	Merseyside, WA12	Telecommunications Features	Infrastructure and Facilities
8	18m W	Electricity Sub Station	Merseyside, WA12	Electrical Features	Infrastructure and Facilities
9	24m W	Tank	Merseyside, WA12	Tanks (Generic)	Industrial Features
10	34m S	Bibby Commercial Ltd	-, Winwick Lane, Croft, Warrington, Cheshire, WA3 7EW	Vehicle Repair, Testing and Servicing	Repair and Servicing
11	46m E	Tank	Cheshire, WA3	Tanks (Generic)	Industrial Features
D	49m W	Mast (Telecommunication)	Merseyside, WA12	Telecommunications Features	Infrastructure and Facilities
12	51m SE	Sand Pit	Cheshire, WA3	Sand, Gravel and Clay Extraction and Merchants	Extractive Industries
D	53m W	Pylon	Merseyside, WA12	Electrical Features	Infrastructure and Facilities
13	56m N	Tank	Greater Manchester, WA3	Tanks (Generic)	Industrial Features
D	62m W	Electricity Sub Station	Merseyside, WA12	Electrical Features	Infrastructure and Facilities
F	65m W	S B Auto Bodies	Alfed Street, -, Newton-le-Willows, Merseyside, WA12 9SF	Vehicle Repair, Testing and Servicing	Repair and Servicing
G	68m E	Kenyon Hall Farm	Kenyon Hall, Winwick Lane, Croft, Warrington, Cheshire, WA3 7ED	Fruit, Flower and Vegetable Growers	Farming
F	69m W	Auto Direct N W Ltd	-, Mill Lane, Newton-le-Willows, Merseyside, WA12 8BG	Secondhand Vehicles	Motoring

ID	Location	Company	Address	Activity	Category
D	75m W	Pylon	Merseyside, WA12	Electrical Features	Infrastructure and Facilities
G	78m E	Floor Sanding Services Nw	The Cottage Kenyon Hall, Winwick Lane, Croft, Warrington, Cheshire, WA3 7ED	Construction Completion Services	Construction Services
H	79m W	Callon Security	4, Rosemary Drive, Newton-le-Willows, Merseyside, WA12 0BQ	Electronic Equipment	Industrial Products
E	81m W	Esso	Rontec Store, Mill Lane, Newton-le-Willows, Merseyside, WA12 8BJ	Petrol and Fuel Stations	Road and Rail
E	81m W	Rss Mill Lane	Rontec Store, Mill Lane, Newton-le-Willows, Merseyside, WA12 8BJ	Vehicle Cleaning Services	Personal, Consumer and Other Services
D	85m W	Pylon	Merseyside, WA12	Electrical Features	Infrastructure and Facilities
15	96m NW	Electricity Sub Station	Merseyside, WA12	Electrical Features	Infrastructure and Facilities
16	96m W	Shaft	Merseyside, WA12	Unspecified Quarries Or Mines	Extractive Industries
H	106m W	Electricity Sub Station	Merseyside, WA12	Electrical Features	Infrastructure and Facilities
17	129m W	Electricity Sub Station	Merseyside, WA12	Electrical Features	Infrastructure and Facilities
J	137m W	Tank	Merseyside, WA12	Tanks (Generic)	Industrial Features
J	138m W	Chimney	Merseyside, WA12	Chimneys	Industrial Features
I	145m W	Electricity Sub Station	Merseyside, WA12	Electrical Features	Infrastructure and Facilities
K	146m W	Parkside Colliery (Disused)	Merseyside, WA12	Coal Mining	Extractive Industries
18	148m NW	Solid Sheds Within Trebaron Garden Centre	174, Southworth Road, Newton-le-Willows, Merseyside, WA12 0BS	Garden Goods	Consumer Products
K	169m W	Air Shaft	Merseyside, WA12	Unspecified Quarries Or Mines	Extractive Industries
20	170m NW	Pylon	Greater Manchester, WA3	Electrical Features	Infrastructure and Facilities

ID	Location	Company	Address	Activity	Category
21	170m SW	Pylon	Merseyside, WA2	Electrical Features	Infrastructure and Facilities
23	172m W	J M Dixon Associates Ltd	22-24, Willow Bank, Newton-le-Willows, Merseyside, WA12 0DQ	Civil Engineers	Engineering Services
L	173m NW	R M C Service Station	Southworth Road Service Station, Southworth Road, Newton-le-Willows, Merseyside, WA12 0BU	Vehicle Repair, Testing and Servicing	Repair and Servicing
L	173m NW	RMC Services	-, Southworth Road, Newton-le-Willows, Merseyside, WA12 0BU	Petrol and Fuel Stations	Road and Rail
24	183m W	The Vehicle Finance Gurus	6, Crabtree Close, Newton-le-Willows, Merseyside, WA12 8BD	Vehicle Hire and Rental	Hire Services
L	220m NW	Electricity Sub Station	Merseyside, WA12	Electrical Features	Infrastructure and Facilities
27	245m W	Pylon	Merseyside, WA2	Electrical Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	**2**

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on **page 67 >**

ID	Location	Company	Address	LPG	Status
E	50m W	ESSO	Mill Lane, Newton-Le-Willows, Merseyside, WA12 8BJ	No	Open
L	193m NW	UNBRANDED	Southworth Road, Newton-Le-Willows, Merseyside, WA12 0BU	Yes	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	0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0

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

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m	0

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

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m	0

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m	0

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

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m	0

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

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m	2

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

Features are displayed on the Current industrial land use map on **page 67 >**

ID	Location	Details	
A	**On site**	**Operator: GASKELL BROS (WM. & C.) LIMITED** **Installation Name: Southworth Quarry Landfill Site** **Process: WASTE LANDFILLING; ANY OTHER LANDFILL TO WHICH THE 2002 LANDFILL REGULATIONS APPLY** **Permit Number: XP3334SE** **Original Permit Number: XP3334SE**	**EPR Reference: EPR/XP3334SE** **Issue Date: 31/03/2008** **Effective Date: 31/03/2008** **Last date noted as effective: 23/11/2023** **Status: Regulatory Change**
31	410m SW	Operator: URBAN RESERVE (ASSETCO 2) LIMITED Installation Name: Kerfoot Power Process: MCP Permit Number: GP3040QG Original Permit Number: GP3040QG	EPR Reference: EPR/GP3040QG Issue Date: 17/03/2023 Effective Date: 17/03/2023 Last date noted as effective: 23/11/2023 Status: Effective

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

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

Records within 500m	4

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 67 >**

ID	Location	Address	Details	
6	**On site**	**Gaskell Brothers (Wm&C) Ltd, Borrow Pit Quarry, Winwick Lane, WA3 7EW**	**Process: Quarry Processes Status: Current Permit Permit Type: Part B**	**Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified**
B	18m W	Jackson's Car Services, Unit 4, Back Alfred St, WA12 8BH	Process: Waste Oil Burner 0.4 MW Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
E	64m W	Mill Lane Service Station, Mill Lane, Newton Le Willows, WA12 8DR	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
E	66m W	Elf Service Station, 44 Mill Lane, Newton-le-Willows, WA9 1BQ	Process: Petrol Vapour Recovery Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m	0

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m	33

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

Features are displayed on the Current industrial land use map on **page 67 >**

ID	Location	Address	Details	
C	48m W	MILL LANE CSO 425E6, MILL LANE, NEWTON LE WILLOWS, MERSEYSIDE, WA12 8BF	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01STH0049 Permit Version: 3 Receiving Water: NEWTON BROOK	Status: VARIED UNDER EPR 2010 Issue date: 22/03/2016 Effective Date: 22/03/2016 Revocation Date: 10/04/2018
C	48m W	MILL LANE CSO 425E6, MILL LANE, NEWTON LE WILLOWS, MERSEYSIDE, WA12 8BF	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01STH0049 Permit Version: 4 Receiving Water: NEWTON BROOK	Status: VARIED UNDER EPR 2010 Issue date: 11/04/2018 Effective Date: 11/04/2018 Revocation Date: -
14	55m SE	SOUTHWORTH QUARRY, WINWICK LANE, WINWICK, NEAR WARRINGTON, CHESHIRE	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: 016982854 Permit Version: 1 Receiving Water: COCKSHOT BROOK	Status: REVOKED AND REPLACED BY IPC AUTHORISATION Issue date: 14/02/1995 Effective Date: 14/02/1995 Revocation Date: 05/11/2006
C	65m W	MILL LANE CSO 425E6, MILL LANE, NEWTON LE WILLOWS, MERSEYSIDE, WA12 8BF	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01STH0049 Permit Version: 1 Receiving Water: NEWTON BROOK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 01/01/1995 Revocation Date: 13/04/2009
C	65m W	MILL LANE CSO 425E6, MILL LANE, NEWTON LE WILLOWS, MERSEYSIDE, WA12 8BF	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01STH0049 Permit Version: 2 Receiving Water: NEWTON BROOK	Status: VARIED UNDER EPR 2010 Issue date: 14/04/2009 Effective Date: 14/04/2009 Revocation Date: 21/03/2016
I	124m W	BECK AND POLLITZER LTD SWO, MILL LANE, NEWTON-LE-WILLOWS, MERSEYSIDE	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: 016991254 Permit Version: 1 Receiving Water: NEWTON BROOK	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/07/1991 Revocation Date: 01/07/1991
25	200m NW	MILL LN PS, MILL LANE, NEWTON LE WILLOWS, MERSEYSIDE	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: 016993182 Permit Version: 1 Receiving Water: NEWTON BROOK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 21/05/1997 Revocation Date: -

ID	Location	Address	Details	
M	209m W	PARK ROAD NORTH, ST HELENS, MERSEYSIDE	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01STH0076 Permit Version: 1 Receiving Water: -	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/04/1991 Revocation Date: 31/12/1994
M	209m W	PARK ROAD NORTH, ST HELENS, MERSEYSIDE	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01STH0076 Permit Version: 2 Receiving Water: -	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 01/01/1995 Revocation Date: -
28	262m NW	WILLOW PARK RESERVOIR, NEWTON-LE-WILLOWS, ST HELENS, MERSEYSIDE	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: 016993157 Permit Version: 1 Receiving Water: NEWTON BROOK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 13/12/1996 Revocation Date: -
29	341m W	WARWICK AVENUE WW NTWK PS, R/O WARWICK AVENUE, NEWTON LE WILLOWS, MERSEYSIDE, WA12 8PS	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01STH0082 Permit Version: 3 Receiving Water: NEWTON BROOK	Status: VARIED UNDER EPR 2010 Issue date: 25/09/2017 Effective Date: 25/09/2017 Revocation Date: -
30	362m E	SANDY BANK FARM, SANDY BROW LA, CROFT, WARRINGTON, CHESHIRE, WA3 7EA	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 01M/815 Permit Version: 1 Receiving Water: COCK SHOT BROOK	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 30/11/1962 Effective Date: 30/11/1962 Revocation Date: -
O	372m W	MCLEAN RES DEVELOPMENT SWO, ADJACENT TO NEWTON BROOK, NEWTON-LE-WILLOWS, MERSEYSIDE	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: 016991284 Permit Version: 1 Receiving Water: NEWTON BROOK	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 22/06/1988 Revocation Date: 01/07/1991
O	372m W	MILL LANE, NEWTON-LE-WILLOWS, MERSEYSIDE	Effluent Type: MISCELLANEOUS DISCHARGES - EMERGENCY DISCHARGES Permit Number: 016991406 Permit Version: 1 Receiving Water: NEWTON BROOK	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 11/05/1989 Revocation Date: 11/05/1989

ID	Location	Address	Details	
O	372m W	MILL LANE, NEWTON-LE-WILLOWS, MERSEYSIDE	Effluent Type: SEWAGE DISCHARGES - UNSPECIFIED - WATER COMPANY Permit Number: 01STH0120 Permit Version: 1 Receiving Water: -	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/04/1991 Revocation Date: 31/12/1994
O	372m W	MILL LANE, NEWTON-LE-WILLOWS, MERSEYSIDE	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: 01STH0120 Permit Version: 2 Receiving Water: -	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 01/01/1995 Revocation Date: -
O	390m W	WARWICK AVENUE WW NTWK PS, R/O WARWICK AVENUE, NEWTON LE WILLOWS, MERSEYSIDE, WA12 8PS	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01STH0082 Permit Version: 2 Receiving Water: NEWTON BROOK	Status: VARIED UNDER EPR 2010 Issue date: 14/04/2009 Effective Date: 14/04/2009 Revocation Date: 24/09/2017
O	390m W	WARWICK AVENUE WW NTWK PS, R/O WARWICK AVENUE, NEWTON LE WILLOWS, MERSEYSIDE, WA12 8PS	Effluent Type: MISCELLANEOUS DISCHARGES - EMERGENCY DISCHARGES Permit Number: 01STH0082 Permit Version: 1 Receiving Water: NEWTON BROOK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 01/01/1995 Revocation Date: 13/04/2009
P	424m SW	PARKSIDE COLLIERY, NEWTON-LE-WILLOWS, MERSEYSIDE	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: 016990245 Permit Version: 2 Receiving Water: HERMITAGE GREEN BROOK	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 12/07/1991 Revocation Date: 14/06/1992
P	424m SW	PARKSIDE COLLIERY, NEWTON-LE-WILLOWS, MERSEYSIDE	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: 016990245 Permit Version: 3 Receiving Water: HERMITAGE GREEN BROOK	Status: REVOKED UNDER EPR 2010 Issue date: - Effective Date: 15/06/1992 Revocation Date: 14/05/2022
P	424m SW	PARKSIDE COLLIERY, NEWTON-LE-WILLOWS, MERSEYSIDE	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: 016990245 Permit Version: 1 Receiving Water: HERMITAGE GREEN BROOK	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/02/1981 Revocation Date: 11/07/1991

ID	Location	Address	Details	
Q	432m SW	PARKSIDE COLLIERY, NEWTON-LE-WILLOWS, MERSEYSIDE	Effluent Type: MINEWATER Permit Number: 016990246 Permit Version: 2 Receiving Water: NEWTON BROOK	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 12/07/1991 Revocation Date: 18/06/1992
Q	432m SW	PARKSIDE COLLIERY, NEWTON-LE-WILLOWS, MERSEYSIDE	Effluent Type: MINEWATER Permit Number: 016990246 Permit Version: 1 Receiving Water: NEWTON BROOK	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/02/1981 Revocation Date: 11/07/1991
Q	432m SW	PARKSIDE COLLIERY, NEWTON-LE-WILLOWS, MERSEYSIDE	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: 016990246 Permit Version: 3 Receiving Water: NEWTON BROOK	Status: SURRENDERED UNDER EPR 2010 Issue date: - Effective Date: 19/06/1992 Revocation Date: 29/04/2016
R	457m W	10 WARWICK AVENUE CSO (42058), NEWTON-LE-WILLOWS, MERSEYSIDE, WA12 8PS	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016920445 Permit Version: 3 Receiving Water: NEWTON BROOK	Status: VARIED UNDER EPR 2010 Issue date: 21/09/2020 Effective Date: 21/09/2020 Revocation Date: -
R	461m W	RR NO 10, ST HELENS, MERSEYSIDE	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01STH0075 Permit Version: 2 Receiving Water: NEWTON BROOK	Status: REVOKED NEW CONSENT ISSUED (WATER ACT 1989 SECTION 113) Issue date: - Effective Date: 01/01/1995 Revocation Date: 01/01/1995
R	461m W	10 WARWICK AVENUE CSO (42058), NEWTON-LE-WILLOWS, MERSEYSIDE, WA12 8PS	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016920445 Permit Version: 1 Receiving Water: NEWTON BROOK	Status: CONSENT REVOKED OR REVISED - NEW CONSENT ISSUED (37(1)) Issue date: 26/10/1983 Effective Date: 26/10/1983 Revocation Date: 24/01/2006
R	461m W	RR NO 10, ST HELENS, MERSEYSIDE	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01STH0075 Permit Version: 1 Receiving Water: -	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/04/1991 Revocation Date: 31/12/1994
R	461m W	10 WARWICK AVENUE CSO (42058), NEWTON-LE-WILLOWS, MERSEYSIDE, WA12 8PS	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016920445 Permit Version: 2 Receiving Water: NEWTON BROOK	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 25/01/2006 Effective Date: 25/01/2006 Revocation Date: 21/09/2020

ID	Location	Address	Details	
R	461m W	WARGRAVE ROAD CSO, WARGRAVE, NEWTON-LE-WILLOWS, CHESHIRE, WA128PS	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: NPSWQD004566 Permit Version: 1 Receiving Water: NEWTON BROOK	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 07/01/2009 Effective Date: 07/01/2009 Revocation Date: -
R	472m W	WARGRAVE RD CSO, NEWTON-LE-WILLOWS, MERSEYSIDE	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016982959 Permit Version: 1 Receiving Water: NEWTON BROOK	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/01/1995 Revocation Date: 01/06/1995
R	472m W	WARGRAVE RD CSO, NEWTON-LE-WILLOWS, MERSEYSIDE	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016982959 Permit Version: 2 Receiving Water: NEWTON BROOK	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 02/06/1995 Revocation Date: 16/11/1995
R	472m W	WARGRAVE RD CSO, NEWTON-LE-WILLOWS, MERSEYSIDE	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016982959 Permit Version: 3 Receiving Water: NEWTON BROOK	Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: - Effective Date: 17/11/1995 Revocation Date: 09/02/2009

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m	**0**

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

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

4.15 Pollutant release to public sewer

Records within 500m	**0**

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m	0

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

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

4.17 List 2 Dangerous Substances

Records within 500m	0

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m	10

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 67 >**

ID	Location	Details	
19	157m W	Incident Date: 30/07/2003 Incident Identification: 177723 Pollutant: Contaminated Water Pollutant Description: Minewater	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
22	171m W	Incident Date: 23/01/2003 Incident Identification: 132841 Pollutant: Contaminated Water Pollutant Description: Minewater	Water Impact: Category 3 (Minor) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)
26	207m W	Incident Date: 06/11/2001 Incident Identification: 41405 Pollutant: Contaminated Water Pollutant Description: Other Contaminated Water	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
N	236m NW	Incident Date: 15/01/2002 Incident Identification: 52686 Pollutant: Oils and Fuel Pollutant Description: Gas and Fuel Oils	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)

ID	Location	Details	
N	257m NW	Incident Date: 15/07/2003 Incident Identification: 173999 Pollutant: Other Pollutant Pollutant Description: Microbiological	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
32	418m W	Incident Date: 03/08/2001 Incident Identification: 21651 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
R	443m W	Incident Date: 08/09/2004 Incident Identification: 265337 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
33	445m NW	Incident Date: 31/03/2021 Incident Identification: 1914460 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 1 (Major) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
R	458m W	Incident Date: 17/08/2003 Incident Identification: 182800 Pollutant: Sewage Materials Pollutant Description: Grey Water	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
34	499m SE	Incident Date: 25/01/2003 Incident Identification: 133275 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

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

4.19 Pollution inventory substances

Records within 500m	**0**

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

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

4.20 Pollution inventory waste transfers

Records within 500m	0

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

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

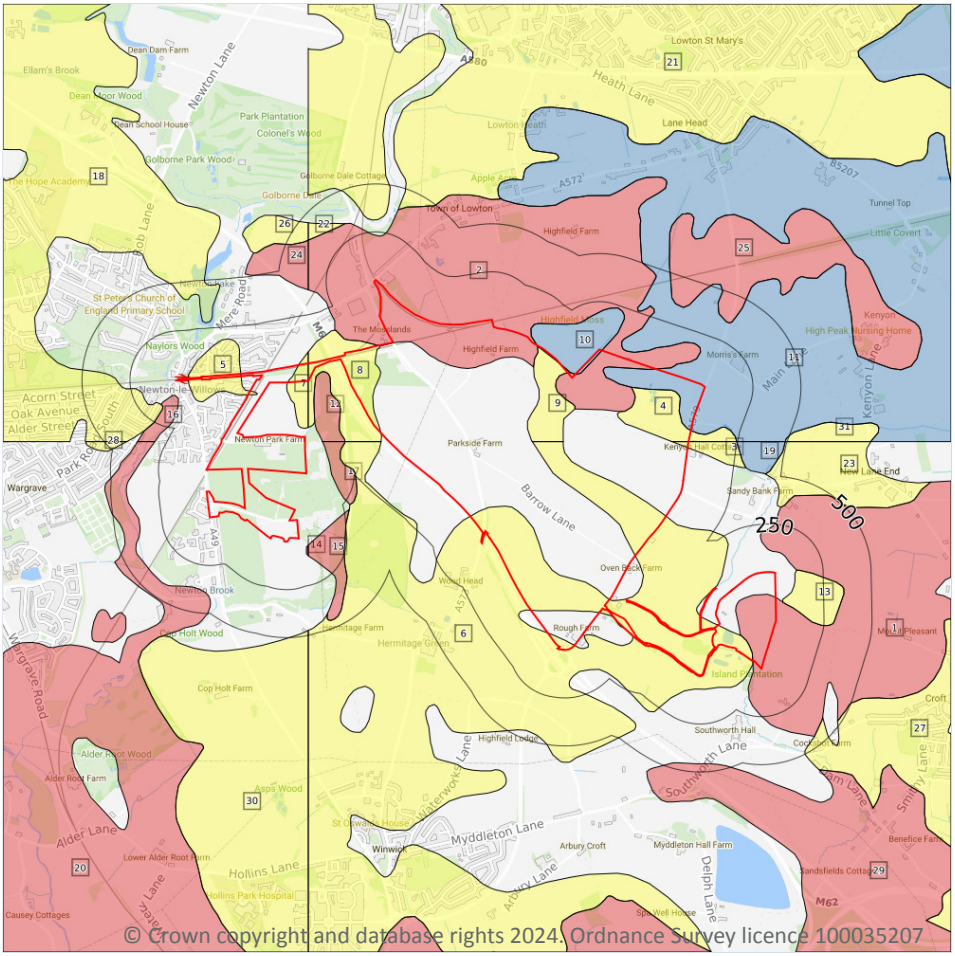
4.21 Pollution inventory radioactive waste

Records within 500m	0

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

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

5 Hydrogeology - Superficial aquifer



5.1 Superficial aquifer

Records within 500m	31

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 82 >**

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	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

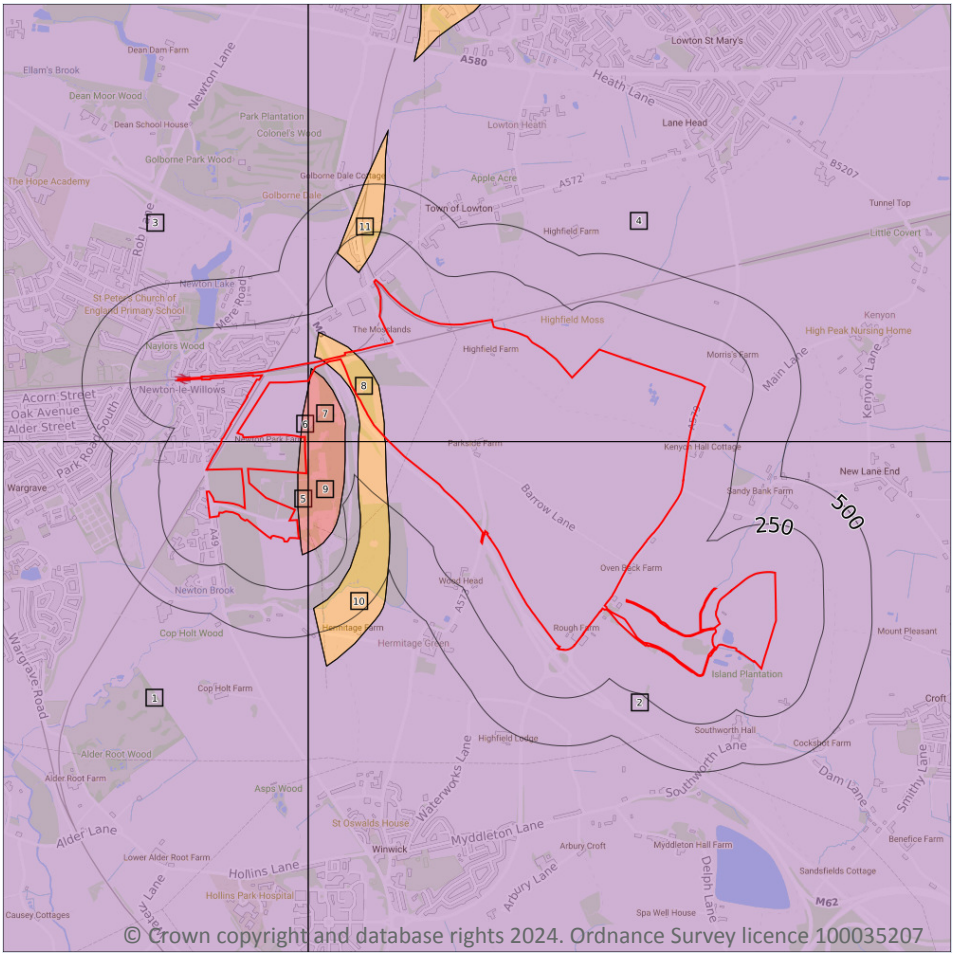
ID	Location	Designation	Description
3	**On site**	**Secondary Undifferentiated**	**Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type**
4	**On site**	**Secondary Undifferentiated**	**Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type**
5	**On site**	**Secondary Undifferentiated**	**Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type**
6	**On site**	**Secondary Undifferentiated**	**Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type**
7	**On site**	**Secondary Undifferentiated**	**Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type**
8	**On site**	**Secondary Undifferentiated**	**Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type**
9	**On site**	**Secondary Undifferentiated**	**Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type**
10	**On site**	**Unproductive**	**These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow**
11	**On site**	**Unproductive**	**These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow**
12	25m W	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
13	36m SE	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
14	59m W	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
15	60m W	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
16	80m W	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

ID	Location	Designation	Description
17	91m W	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
18	153m W	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
19	246m E	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
20	306m W	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
21	312m 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
22	334m 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
23	342m E	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
24	343m NW	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
25	350m NE	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
26	406m 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
27	409m SE	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
28	417m W	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
29	457m SE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
30	475m 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

ID	Location	Designation	Description
31	490m E	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.

Bedrock aquifer



5.2 Bedrock aquifer

Records within 500m	11

Aquifer status of groundwater held within bedrock geology.

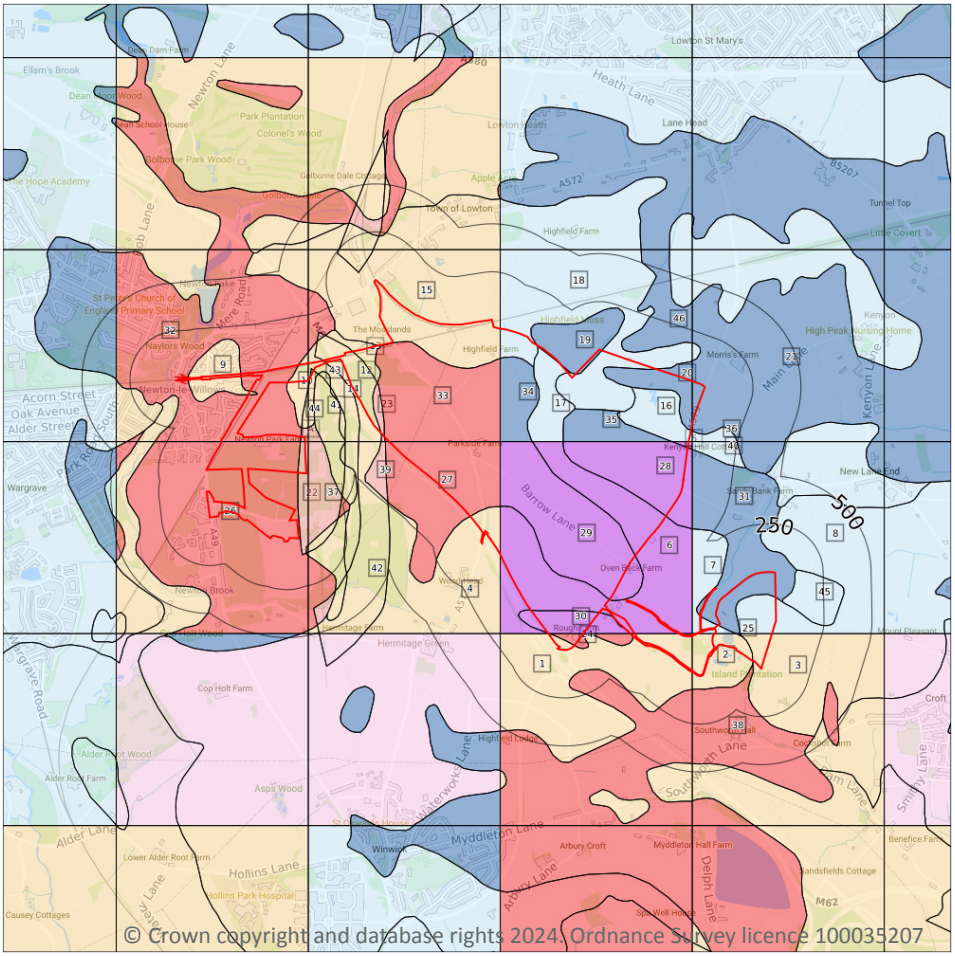
Features are displayed on the Bedrock aquifer map on **page 86 >**

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	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

ID	Location	Designation	Description
3	**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**
4	**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**
5	**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**
6	**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**
7	**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**
8	**On site**	**Secondary B**	**Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeablehorizons and weathering. These are generally the water-bearing parts of the former non-aquifers**
9	10m W	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
10	15m W	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeablehorizons and weathering. These are generally the water-bearing parts of the former non-aquifers
11	94m NW	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeablehorizons and weathering. These are generally the water-bearing parts of the former non-aquifers

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

Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m	48

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 88 >**

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: Low	Vulnerability: High Aquifer type: Principal Flow mechanism: Mixed
2	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: High	Vulnerability: High Aquifer type: Principal Flow mechanism: Mixed
3	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: High	Vulnerability: High Aquifer type: Principal Flow mechanism: Mixed
4	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: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
5	On site	Summary Classification: Principal bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Principal Flow mechanism: Mixed
6	On site	Summary Classification: Principal bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Principal Flow mechanism: Mixed

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
7	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
8	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
9	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
10	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
11	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: High	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
12	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: High	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
13	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: High	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
14	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: High	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
15	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: High	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
16	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
17	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
18	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
19	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: <90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
20	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: <90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
21	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
22	On site	Summary Classification: Secondary 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: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
23	On site	Summary Classification: Secondary 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: High	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
24	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: Low	Vulnerability: High Aquifer type: Principal Flow mechanism: Mixed
25	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: High	Vulnerability: High Aquifer type: Principal Flow mechanism: Mixed

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
26	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: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
27	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: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
28	On site	Summary Classification: Principal bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Principal Flow mechanism: Mixed
29	On site	Summary Classification: Principal bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Principal Flow mechanism: Mixed
30	On site	Summary Classification: Principal bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Principal Flow mechanism: Mixed
31	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
32	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

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
33	**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: High**	**Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures**
34	**On site**	**Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer**	**Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year**	**Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: High**	**Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed**
35	**On site**	**Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer**	**Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year**	**Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: High**	**Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed**
A	**On site**	**Summary Classification: Secondary 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: Secondary Flow mechanism: Well connected fractures**
36	7m E	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
37	10m W	Summary Classification: Secondary 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: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
38	14m SE	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: High	Vulnerability: High Aquifer type: Principal Flow mechanism: Mixed

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
39	14m W	Summary Classification: Secondary 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: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
A	16m W	Summary Classification: Secondary 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: High	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
40	18m E	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
41	24m W	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: High	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
42	30m W	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: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
43	30m NW	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: High	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
44	35m W	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: Secondary Flow mechanism: Well connected fractures
45	36m SE	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
46	39m NE	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: <90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site	0

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

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

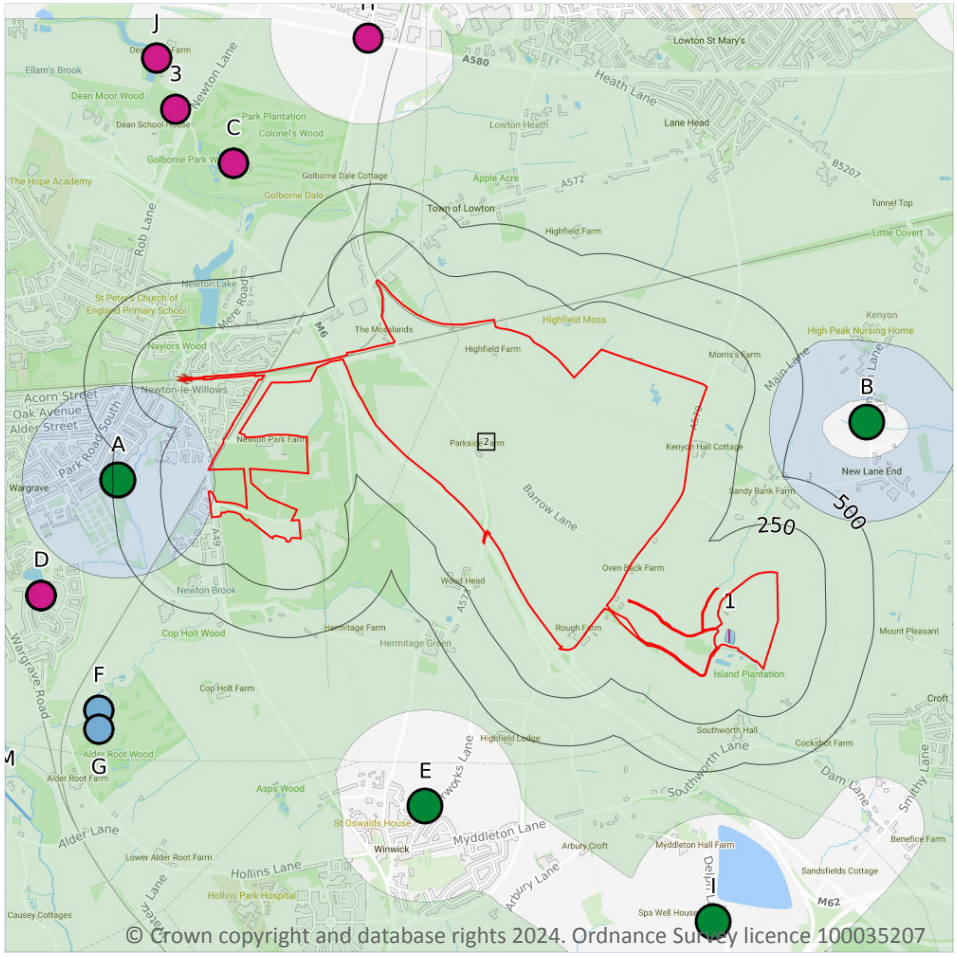
5.5 Groundwater vulnerability- local information

Records on site	0

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

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

Abstractions and Source Protection Zones



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Site Outline

Search buffers in metres (m)

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

5.6 Groundwater abstractions

Records within 2000m	31

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 97 >**

ID	Location	Details	
1	**On site**	**Status: Active** **Licence No: NW/069/0015/011** **Details: Dewatering** **Direct Source: Ground Water - North West Region** **Point: SOUTHWORTH QUARRY** **Data Type: Poly4** **Name: GASKELL BROS (WM. & C.) LIMITED** **Easting: 362173** **Northing: 394026**	**Annual Volume (m^3): -** **Max Daily Volume (m^3): -** **Original Application No: NPS/NA/001639** **Original Start Date: 22/03/2022** **Expiry Date: 31/03/2028** **Issue No: 1** **Version Start Date: 22/03/2022** **Version End Date: -**
A	472m W	Status: Active Licence No: 2569025035 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT PARK RD SOUTH, NEWTON-LE-WILLOWS Data Type: Point Name: United Utilities Water Ltd Easting: 359000 Northing: 394800	Annual Volume (m^3): 2738000 Max Daily Volume (m^3): 8000 Original Application No: 0746 Original Start Date: 07/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 09/10/1995 Version End Date: -
A	472m W	Status: Historical Licence No: 2569025035 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PARK RD SOUTH, NEWTON-LE-WILLOWS" Data Type: Point Name: UNITED UTILITIES WATER PLC Easting: 359000 Northing: 394800	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 07/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 09/10/1995 Version End Date: -
B	854m E	Status: Active Licence No: 2569023005 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: BOREHOLES (2) AT KENYON, GOLBORNE Data Type: Point Name: United Utilities Water Ltd Easting: 362900 Northing: 395100	Annual Volume (m^3): 1659290 Max Daily Volume (m^3): 4546 Original Application No: 2183 Original Start Date: 02/11/1966 Expiry Date: - Issue No: 100 Version Start Date: 13/06/1973 Version End Date: -
B	854m E	Status: Historical Licence No: 2569023005 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: "BOREHOLES (2) AT KENYON, GOLBORNE" Data Type: Point Name: UNITED UTILITIES WATER PLC Easting: 362900 Northing: 395100	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 02/11/1966 Expiry Date: - Issue No: 100 Version Start Date: 13/06/1973 Version End Date: -

ID	Location	Details	
C	966m NW	Status: Historical Licence No: 2569025081 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: "BOREHOLE AT HAYDOCK PARK GOLF CLUB, NEWTON-LE-WILLOWS" Data Type: Point Name: HAYDOCK PARK GOLF CLUB Easting: 359600 Northing: 396450	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 30/09/1997 Expiry Date: - Issue No: 100 Version Start Date: 30/09/1997 Version End Date: -
C	966m NW	Status: Historical Licence No: 2569025081 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT HAYDOCK PARK GOLF CLUB, NEWTON-LE-WILLOWS Data Type: Point Name: HAYDOCK PARK GOLF CLUB COMPANY LIMITED Easting: 359600 Northing: 396450	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 50 Original Application No: - Original Start Date: 30/09/1997 Expiry Date: - Issue No: 101 Version Start Date: 01/04/2008 Version End Date: -
C	966m NW	Status: Active Licence No: 2569025081 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT HAYDOCK PARK GOLF CLUB, NEWTON-LE-WILLOWS Data Type: Point Name: HAYDOCK PARK GOLF CLUB COMPANY LIMITED Easting: 359601 Northing: 396452	Annual Volume (m^3): 2666 Max Daily Volume (m^3): 50 Original Application No: NPS/WR/010154 Original Start Date: 30/09/1997 Expiry Date: - Issue No: 102 Version Start Date: 02/07/2012 Version End Date: -
D	975m W	Status: Historical Licence No: 2569025010 Details: Process water Direct Source: Ground Water - North West Region Point: "B/H AT LH PREMS, VULCAN WORKS, NEWTON-LE-WILLOWS, MERSEYSIDE" Data Type: Point Name: RUSTON DIESELS LTD Easting: 358600 Northing: 394200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 31/05/1966 Expiry Date: - Issue No: 100 Version Start Date: 28/10/1993 Version End Date: -

ID	Location	Details	
D	975m W	Status: Historical Licence No: 2569025010 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: "B/H AT LH PREMS, VULCAN WORKS, NEWTON-LE-WILLOWS, MERSEYSIDE" Data Type: Point Name: RUSTON DIESELS LTD Easting: 358600 Northing: 394200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 31/05/1966 Expiry Date: - Issue No: 100 Version Start Date: 28/10/1993 Version End Date: -
D	975m W	Status: Historical Licence No: 2569025010 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "B/H AT LH PREMS, VULCAN WORKS, NEWTON-LE-WILLOWS, MERSEYSIDE" Data Type: Point Name: RUSTON DIESELS LTD Easting: 358600 Northing: 394200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 31/05/1966 Expiry Date: - Issue No: 100 Version Start Date: 28/10/1993 Version End Date: -
D	975m W	Status: Historical Licence No: 2569025010 Details: Process water Direct Source: Ground Water - North West Region Point: B/H AT LH PREMS, VULCAN WORKS, NEWTON-LE-WILLOWS, MERSEYSIDE Data Type: Point Name: KEY PROPERTY INVESTMENTS NO 9 LTD Easting: 358600 Northing: 394200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 31/05/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/05/2003 Version End Date: -
D	975m W	Status: Historical Licence No: 2569025010 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: B/H AT LH PREMS, VULCAN WORKS, NEWTON-LE-WILLOWS, MERSEYSIDE Data Type: Point Name: KEY PROPERTY INVESTMENTS NO 9 LTD Easting: 358600 Northing: 394200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 31/05/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/05/2003 Version End Date: -

ID	Location	Details	
D	975m W	Status: Historical Licence No: 2569025010 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: B/H AT LH PREMS, VULCAN WORKS, NEWTON-LE-WILLOWS, MERSEYSIDE Data Type: Point Name: KEY PROPERTY INVESTMENTS NO 9 LTD Easting: 358600 Northing: 394200	Annual Volume (m^3): 65000 Max Daily Volume (m^3): 454 Original Application No: - Original Start Date: 31/05/1966 Expiry Date: - Issue No: 102 Version Start Date: 01/05/2003 Version End Date: -
E	1078m S	Status: Active Licence No: 2569025040 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: WELL AT WINWICK P.S., WARRINGTON Data Type: Point Name: United Utilities Water Ltd Easting: 360600 Northing: 393100	Annual Volume (m^3): 909200 Max Daily Volume (m^3): 6000.72 Original Application No: 1549 Original Start Date: 15/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 13/04/1970 Version End Date: -
E	1078m S	Status: Historical Licence No: 2569025040 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: "WELL AT WINWICK P.S., WARRINGTON" Data Type: Point Name: UNITED UTILITIES WATER PLC Easting: 360600 Northing: 393100	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 15/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 13/04/1970 Version End Date: -
H	1259m N	Status: Active Licence No: 2569025036 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: BANK HEATH BOREHOLE IN THE URBAN DISTRICT OF GOLBORNE Data Type: Point Name: United Utilities Water Ltd Easting: 360300 Northing: 397100	Annual Volume (m^3): 1250150 Max Daily Volume (m^3): 3864.1 Original Application No: 0751 Original Start Date: 11/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/03/1991 Version End Date: -

ID	Location	Details	
I	1280m S	Status: Active Licence No: 2569023004 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: WELL & BOREHOLE AT HOUGHTON GREEN P.S., WARRINGTON Data Type: Point Name: United Utilities Water Ltd Easting: 362100 Northing: 392500	Annual Volume (m^3): 4977870 Max Daily Volume (m^3): 13638 Original Application No: 1545 Original Start Date: 15/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 13/04/1970 Version End Date: -
I	1280m S	Status: Historical Licence No: 2569023004 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: "WELL & BOREHOLE AT HOUGHTON GREEN P.S., WARRINGTON" Data Type: Point Name: UNITED UTILITIES WATER PLC Easting: 362100 Northing: 392500	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 15/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 13/04/1970 Version End Date: -
3	1376m NW	Status: Historical Licence No: 2569025086 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: PERMO TRIASSIC SHERWOOD SANDSTONE Data Type: Point Name: MOORE Easting: 359300 Northing: 396730	Annual Volume (m^3): 7640 Max Daily Volume (m^3): 556 Original Application No: - Original Start Date: 08/03/2002 Expiry Date: 10/03/2016 Issue No: 1 Version Start Date: 01/04/2002 Version End Date: -
J	1632m NW	Status: Historical Licence No: 2569025025 Details: General Farming & Domestic Direct Source: Ground Water - North West Region Point: "WELL AT DEAN DAM FARM, NEWTON-LE-WILLOWS" Data Type: Point Name: TRUSTEES OF LEGH FAMILY ESTATES Easting: 359200 Northing: 397000	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/08/1972 Version End Date: -

ID	Location	Details	
J	1632m NW	Status: Historical Licence No: 2569025025 Details: General Farming & Domestic Direct Source: Ground Water - North West Region Point: WELL AT DEAN DAM FARM, NEWTON-LE-WILLOWS Data Type: Point Name: TRUSTEES OF LEGH FAMILY ESTATES Easting: 359200 Northing: 397000	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/08/1972 Version End Date: -
-	1664m W	Status: Active Licence No: 2569025044 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: BOREHOLES (2) AT BELVEDERE P.S., NEWTON-LE-WILLOWS Data Type: Point Name: United Utilities Water Ltd Easting: 357800 Northing: 396000	Annual Volume (m^3): 1208172.24 Max Daily Volume (m^3): 5455.2 Original Application No: 0745 Original Start Date: 31/05/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/03/1991 Version End Date: -
-	1664m W	Status: Historical Licence No: 2569025044 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: "BOREHOLES (2) AT BELVEDERE P.S., NEWTON-LE-WILLOWS" Data Type: Point Name: UNITED UTILITIES WATER PLC Easting: 357800 Northing: 396000	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 31/05/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/03/1991 Version End Date: -
-	1707m W	Status: Active Licence No: 2569025044 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: BOREHOLES (2) AT BELVEDERE P.S., NEWTON-LE-WILLOWS Data Type: Point Name: United Utilities Water Ltd Easting: 357800 Northing: 396100	Annual Volume (m^3): 1208172.24 Max Daily Volume (m^3): 5455.2 Original Application No: 0745 Original Start Date: 31/05/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/03/1991 Version End Date: -

ID	Location	Details	
-	1707m W	Status: Historical Licence No: 2569025044 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: BOREHOLES (2) AT BELVEDERE P.S., NEWTON-LE-WILLOWS 196 Data Type: Point Name: NORTH WEST WATER LTD Easting: 357800 Northing: 396100	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 31/05/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/03/1991 Version End Date: -
-	1707m W	Status: Historical Licence No: 2569025044 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: "BOREHOLES (2) AT BELVEDERE P.S., NEWTON-LE-WILLOWS $196" Data Type: Point Name: UNITED UTILITIES WATER PLC Easting: 357800 Northing: 396100	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 31/05/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/03/1991 Version End Date: -
-	1707m W	Status: Historical Licence No: 2569025044 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: BOREHOLES (2) AT BELVEDERE P.S., NEWTON-LE-WILLOWS $196 Data Type: Point Name: UNITED UTILITIES WATER PLC Easting: 357800 Northing: 396100	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 31/05/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/03/1991 Version End Date: -
-	1976m E	Status: Active Licence No: 2569023003 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: BOREHOLES X 2 AT CROFT PUMPING STATION WARRINGTON Data Type: Point Name: United Utilities Water Ltd Easting: 364400 Northing: 394500	Annual Volume (m^3): 2495754 Max Daily Volume (m^3): 6819 Original Application No: 1542 Original Start Date: 18/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 13/04/1970 Version End Date: -

ID	Location	Details	
-	1976m E	Status: Historical Licence No: 2569023003 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: "BOREHOLES (2) AT CROFT P.S., WARRINGTON" Data Type: Point Name: UNITED UTILITIES WATER PLC Easting: 364400 Northing: 394500	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 13/04/1970 Version End Date: -
-	1976m E	Status: Historical Licence No: 2569023003 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: BOREHOLES (2) AT CROFT P.S., WARRINGTON Data Type: Point Name: UNITED UTILITIES WATER PLC Easting: 364400 Northing: 394500	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 13/04/1970 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m	**8**

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 97 >**

ID	Location	Details	
F	1163m SW	Status: Historical Licence No: 2569025074 Details: Spray Irrigation - Storage Direct Source: "Surface, Non-Tidal - North West Region" Point: "NEWTON BROOK AT WINWICK, NEAR WARRINGTON" Data Type: Point Name: LANDER Easting: 358900 Northing: 393600	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 07/05/1993 Expiry Date: - Issue No: 100 Version Start Date: 07/05/1993 Version End Date: -

ID	Location	Details	
F	1163m SW	Status: Historical Licence No: 2569025074 Details: Spray Irrigation - Storage Direct Source: Surface, Non-Tidal - North West Region Point: NEWTON BROOK AT WINWICK, NEAR WARRINGTON Data Type: Point Name: LANDER Easting: 358900 Northing: 393600	Annual Volume (m^3): 1600 Max Daily Volume (m^3): 55 Original Application No: 7193 Original Start Date: 07/05/1993 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2008 Version End Date: -
G	1251m SW	Status: Historical Licence No: 2569025075 Details: Spray Irrigation - Direct Direct Source: "Surface, Non-Tidal - North West Region" Point: "RESERVOIR AT ALDER ROOT GOLF CLUB, WINWICK, WARRINGTON" Data Type: Point Name: LANDER Easting: 358900 Northing: 393500	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 07/05/1993 Expiry Date: - Issue No: 100 Version Start Date: 07/05/1993 Version End Date: -
G	1251m SW	Status: Historical Licence No: 2569025075 Details: Spray Irrigation - Direct Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIR AT ALDER ROOT GOLF CLUB, WINWICK, WARRINGTON Data Type: Point Name: LANDER Easting: 358900 Northing: 393500	Annual Volume (m^3): 1600 Max Daily Volume (m^3): 55 Original Application No: 7193 Original Start Date: 07/05/1993 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2008 Version End Date: -
M	1769m SW	Status: Historical Licence No: 2569025066 Details: Spray Irrigation - Direct Direct Source: Surface, Non-Tidal - North West Region Point: SANKEY BROOK AT BURTONWOOD WARRINGTON Data Type: Line Name: H & H FAIRCLOUGH & SONS Easting: 358295 Northing: 393298	Annual Volume (m^3): 4545 Max Daily Volume (m^3): 778.55 Original Application No: NPS/WR/012154 Original Start Date: 09/09/1985 Expiry Date: - Issue No: 101 Version Start Date: 11/02/2013 Version End Date: -

ID	Location	Details	
M	1778m SW	Status: Historical Licence No: 2569025066 Details: Spray Irrigation - Direct Direct Source: "Surface, Non-Tidal - North West Region" Point: "SANKEY BROOK AT BURTONWOOD, WARRINGTON" Data Type: Line Name: H & H FAIRCLOUGH & SONS Easting: 358290 Northing: 393290	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 09/09/1985 Expiry Date: - Issue No: 100 Version Start Date: 09/08/1995 Version End Date: -
M	1778m SW	Status: Historical Licence No: 2569025066 Details: Spray Irrigation - Direct Direct Source: Surface, Non-Tidal - North West Region Point: SANKEY BROOK AT BURTONWOOD, WARRINGTON Data Type: Line Name: H & H FAIRCLOUGH & SONS Easting: 358290 Northing: 393290	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 09/09/1985 Expiry Date: - Issue No: 100 Version Start Date: 09/08/1995 Version End Date: -
M	1778m SW	Status: Historical Licence No: 2569025066 Details: Spray Irrigation - Direct Direct Source: Surface, Non-Tidal - North West Region Point: SANKEY BROOK AT BURTONWOOD WARRINGTON Data Type: Line Name: H & H FAIRCLOUGH & SONS Easting: 358290 Northing: 393290	Annual Volume (m^3): 18184 Max Daily Volume (m^3): 778.547 Original Application No: - Original Start Date: 09/09/1985 Expiry Date: - Issue No: 100 Version Start Date: 09/08/1995 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m	**18**

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 97 >**

ID	Location	Details	
A	472m W	Status: Active Licence No: 2569025035 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT PARK RD SOUTH, NEWTON-LE-WILLOWS Data Type: Point Name: United Utilities Water Ltd Easting: 359000 Northing: 394800	Annual Volume (m^3): 2738000 Max Daily Volume (m^3): 8000 Original Application No: 0746 Original Start Date: 07/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 09/10/1995 Version End Date: -
A	472m W	Status: Historical Licence No: 2569025035 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PARK RD SOUTH, NEWTON-LE-WILLOWS" Data Type: Point Name: UNITED UTILITIES WATER PLC Easting: 359000 Northing: 394800	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 07/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 09/10/1995 Version End Date: -
B	854m E	Status: Active Licence No: 2569023005 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: BOREHOLES (2) AT KENYON, GOLBORNE Data Type: Point Name: United Utilities Water Ltd Easting: 362900 Northing: 395100	Annual Volume (m^3): 1659290 Max Daily Volume (m^3): 4546 Original Application No: 2183 Original Start Date: 02/11/1966 Expiry Date: - Issue No: 100 Version Start Date: 13/06/1973 Version End Date: -
B	854m E	Status: Historical Licence No: 2569023005 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: "BOREHOLES (2) AT KENYON, GOLBORNE" Data Type: Point Name: UNITED UTILITIES WATER PLC Easting: 362900 Northing: 395100	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 02/11/1966 Expiry Date: - Issue No: 100 Version Start Date: 13/06/1973 Version End Date: -
E	1078m S	Status: Active Licence No: 2569025040 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: WELL AT WINWICK P.S., WARRINGTON Data Type: Point Name: United Utilities Water Ltd Easting: 360600 Northing: 393100	Annual Volume (m^3): 909200 Max Daily Volume (m^3): 6000.72 Original Application No: 1549 Original Start Date: 15/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 13/04/1970 Version End Date: -

ID	Location	Details	
E	1078m S	Status: Historical Licence No: 2569025040 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: "WELL AT WINWICK P.S., WARRINGTON" Data Type: Point Name: UNITED UTILITIES WATER PLC Easting: 360600 Northing: 393100	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 15/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 13/04/1970 Version End Date: -
H	1259m N	Status: Active Licence No: 2569025036 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: BANK HEATH BOREHOLE IN THE URBAN DISTRICT OF GOLBORNE Data Type: Point Name: United Utilities Water Ltd Easting: 360300 Northing: 397100	Annual Volume (m^3): 1250150 Max Daily Volume (m^3): 3864.1 Original Application No: 0751 Original Start Date: 11/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/03/1991 Version End Date: -
I	1280m S	Status: Active Licence No: 2569023004 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: WELL & BOREHOLE AT HOUGHTON GREEN P.S., WARRINGTON Data Type: Point Name: United Utilities Water Ltd Easting: 362100 Northing: 392500	Annual Volume (m^3): 4977870 Max Daily Volume (m^3): 13638 Original Application No: 1545 Original Start Date: 15/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 13/04/1970 Version End Date: -
I	1280m S	Status: Historical Licence No: 2569023004 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: "WELL & BOREHOLE AT HOUGHTON GREEN P.S., WARRINGTON" Data Type: Point Name: UNITED UTILITIES WATER PLC Easting: 362100 Northing: 392500	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 15/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 13/04/1970 Version End Date: -

ID	Location	Details	
-	1664m W	Status: Active Licence No: 2569025044 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: BOREHOLES (2) AT BELVEDERE P.S., NEWTON-LE-WILLOWS Data Type: Point Name: United Utilities Water Ltd Easting: 357800 Northing: 396000	Annual Volume (m^3): 1208172.24 Max Daily Volume (m^3): 5455.2 Original Application No: 0745 Original Start Date: 31/05/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/03/1991 Version End Date: -
-	1664m W	Status: Historical Licence No: 2569025044 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: "BOREHOLES (2) AT BELVEDERE P.S., NEWTON-LE-WILLOWS" Data Type: Point Name: UNITED UTILITIES WATER PLC Easting: 357800 Northing: 396000	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 31/05/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/03/1991 Version End Date: -
-	1707m W	Status: Active Licence No: 2569025044 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: BOREHOLES (2) AT BELVEDERE P.S., NEWTON-LE-WILLOWS Data Type: Point Name: United Utilities Water Ltd Easting: 357800 Northing: 396100	Annual Volume (m^3): 1208172.24 Max Daily Volume (m^3): 5455.2 Original Application No: 0745 Original Start Date: 31/05/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/03/1991 Version End Date: -
-	1707m W	Status: Historical Licence No: 2569025044 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: BOREHOLES (2) AT BELVEDERE P.S., NEWTON-LE-WILLOWS 196 Data Type: Point Name: NORTH WEST WATER LTD Easting: 357800 Northing: 396100	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 31/05/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/03/1991 Version End Date: -

ID	Location	Details	
-	1707m W	Status: Historical Licence No: 2569025044 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: "BOREHOLES (2) AT BELVEDERE P.S., NEWTON-LE-WILLOWS $196" Data Type: Point Name: UNITED UTILITIES WATER PLC Easting: 357800 Northing: 396100	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 31/05/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/03/1991 Version End Date: -
-	1707m W	Status: Historical Licence No: 2569025044 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: BOREHOLES (2) AT BELVEDERE P.S., NEWTON-LE-WILLOWS $196 Data Type: Point Name: UNITED UTILITIES WATER PLC Easting: 357800 Northing: 396100	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 31/05/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/03/1991 Version End Date: -
-	1976m E	Status: Active Licence No: 2569023003 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: BOREHOLES X 2 AT CROFT PUMPING STATION WARRINGTON Data Type: Point Name: United Utilities Water Ltd Easting: 364400 Northing: 394500	Annual Volume (m^3): 2495754 Max Daily Volume (m^3): 6819 Original Application No: 1542 Original Start Date: 18/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 13/04/1970 Version End Date: -
-	1976m E	Status: Historical Licence No: 2569023003 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: "BOREHOLES (2) AT CROFT P.S., WARRINGTON" Data Type: Point Name: UNITED UTILITIES WATER PLC Easting: 364400 Northing: 394500	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 13/04/1970 Version End Date: -
-	1976m E	Status: Historical Licence No: 2569023003 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: BOREHOLES (2) AT CROFT P.S., WARRINGTON Data Type: Point Name: UNITED UTILITIES WATER PLC Easting: 364400 Northing: 394500	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 13/04/1970 Version End Date: -

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

5.9 Source Protection Zones

Records within 500m	4

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 97 >**

ID	Location	Type	Description
2	**On site**	**3**	**Total catchment**
A	**On site**	**2**	**Outer catchment**
B	349m E	2	Outer catchment
A	381m W	1	Inner catchment

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

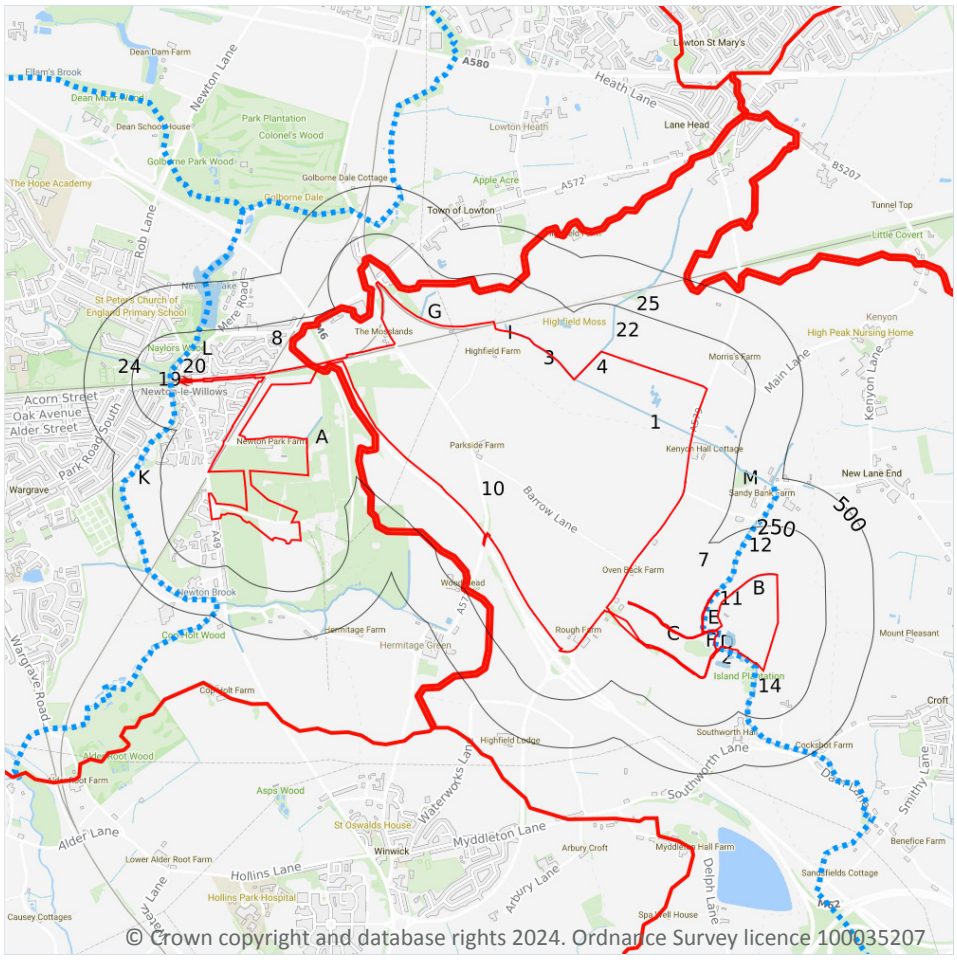
5.10 Source Protection Zones (confined aquifer)

Records within 500m	0

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

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

6 Hydrology



6.1 Water Network (OS MasterMap)

Records within 250m	29

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 113 >**

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

ID	Location	Type of water feature	Ground level	Permanence	Name
2	**On site**	**Inland river not influenced by normal tidal action.**	**Underground**	**Watercourse contains water year round (in normal circumstances)**	**Cockshot Brook**
3	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
4	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
A	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
B	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
C	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
D	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**Cockshot Brook**
E	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**Cockshot Brook**
F	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**Cockshot Brook**
F	**On site**	**Inland river not influenced by normal tidal action.**	**Underground**	**Watercourse contains water year round (in normal circumstances)**	**Cockshot Brook**
G	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
11	**On site**	**Inland river not influenced by normal tidal action.**	**Underground**	**Watercourse contains water year round (in normal circumstances)**	**Cockshot Brook**
12	3m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Cockshot Brook

ID	Location	Type of water feature	Ground level	Permanence	Name
14	4m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Cockshot Brook
I	33m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
I	36m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	51m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Newton Brook
19	63m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
20	63m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Newton Brook
22	90m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	157m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	192m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Newton Brook
L	192m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Newton Brook
L	213m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	214m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Newton Brook
24	214m W	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
L	221m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Newton Brook
25	245m NE	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	**18**

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

Features are displayed on the Hydrology map on **page 113 >**

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site	**2**

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

Features are displayed on the Hydrology map on **page 113 >**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
7	**On site**	**River**	**Spittle Brook**	**GB112069061020**	**Glaze**	**Mersey Lower**
8	**On site**	**River**	**Millingford (Newton) Brook**	**GB112069061220**	**Sankey**	**Mersey Lower**

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

6.4 WFD Surface water bodies

Records identified	2

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

Features are displayed on the Hydrology map on **page 113 >**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
9	**On site**	**River**	**Spittle Brook**	**GB112069061020** ↗	**Moderate**	**Fail**	**Moderate**	**2019**
17	48m W	River	Millingford (Newton) Brook	GB112069061220 ↗	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

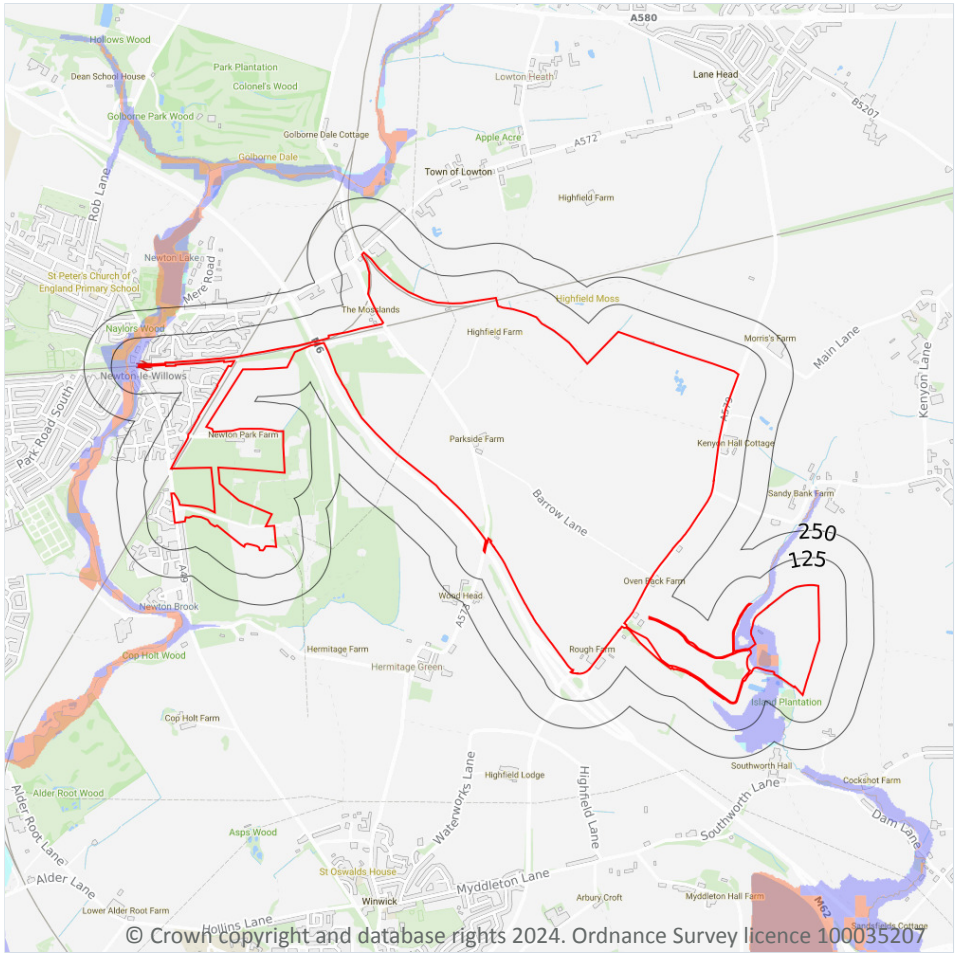
Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on **page 113 >**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
10	**On site**	**Lower Mersey Basin and North Merseyside Permo-Triassic Sandstone Aquifers**	**GB41201G101700** ↗	**Poor**	**Poor**	**Poor**	**2019**

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

7 River and coastal flooding



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Site Outline

Search buffers in metres (m)

River and coastal flooding:

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

7.1 Risk of flooding from rivers and the sea

Records within 50m	19

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

Features are displayed on the River and coastal flooding map on **page 118 >**

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

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

7.2 Historical Flood Events

Records within 250m	**0**

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

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

7.3 Flood Defences

Records within 250m	**0**

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

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

7.4 Areas Benefiting from Flood Defences

Records within 250m	**0**

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

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

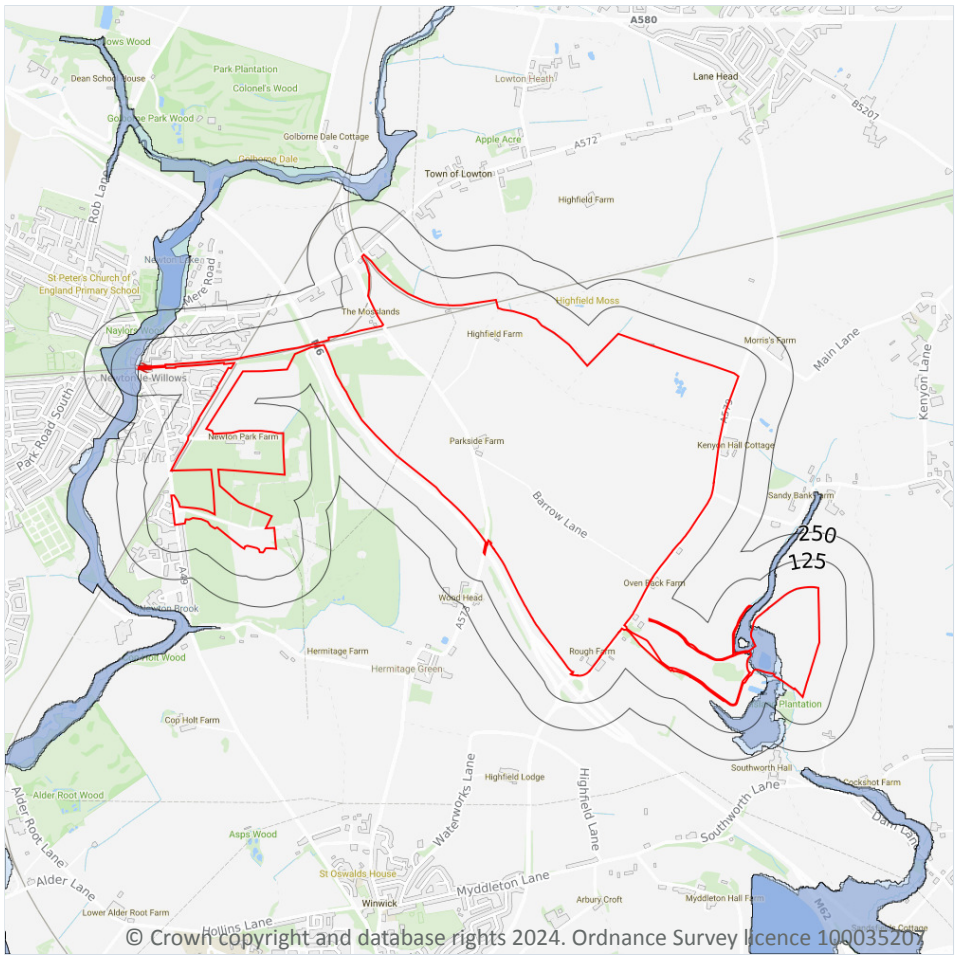
7.5 Flood Storage Areas

Records within 250m	**0**

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

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

River and coastal flooding - Flood Zones



Site Outline

Search buffers in metres (m)

Flood zone 2

Flood zone 3

7.6 Flood Zone 2

Records within 50m	1

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

Features are displayed on the River and coastal flooding map on **page 118 >**

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

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

7.7 Flood Zone 3

Records within 50m	1

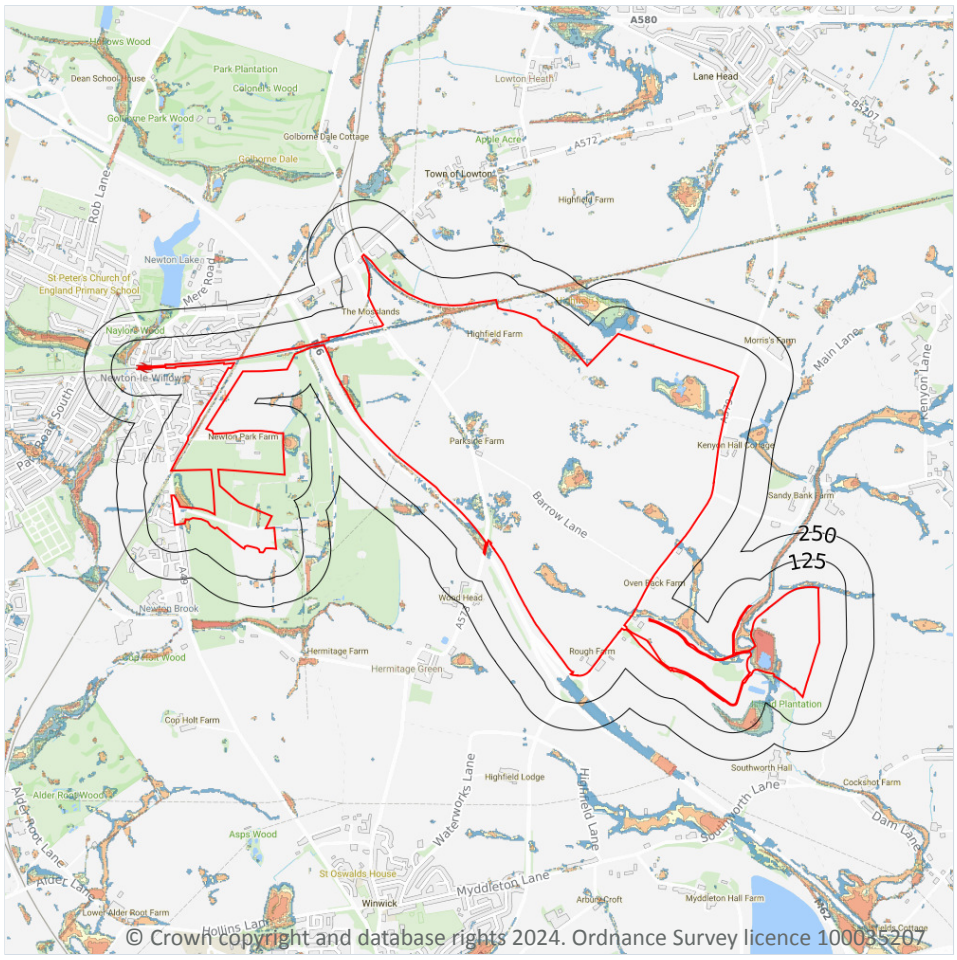
Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

Features are displayed on the River and coastal flooding map on **page 118 >**

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

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

8 Surface water flooding



Site Outline

Search buffers in metres (m)

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

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

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

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

8.1 Surface water flooding

Highest risk on site	**1 in 30 year, Greater than 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 122 >**

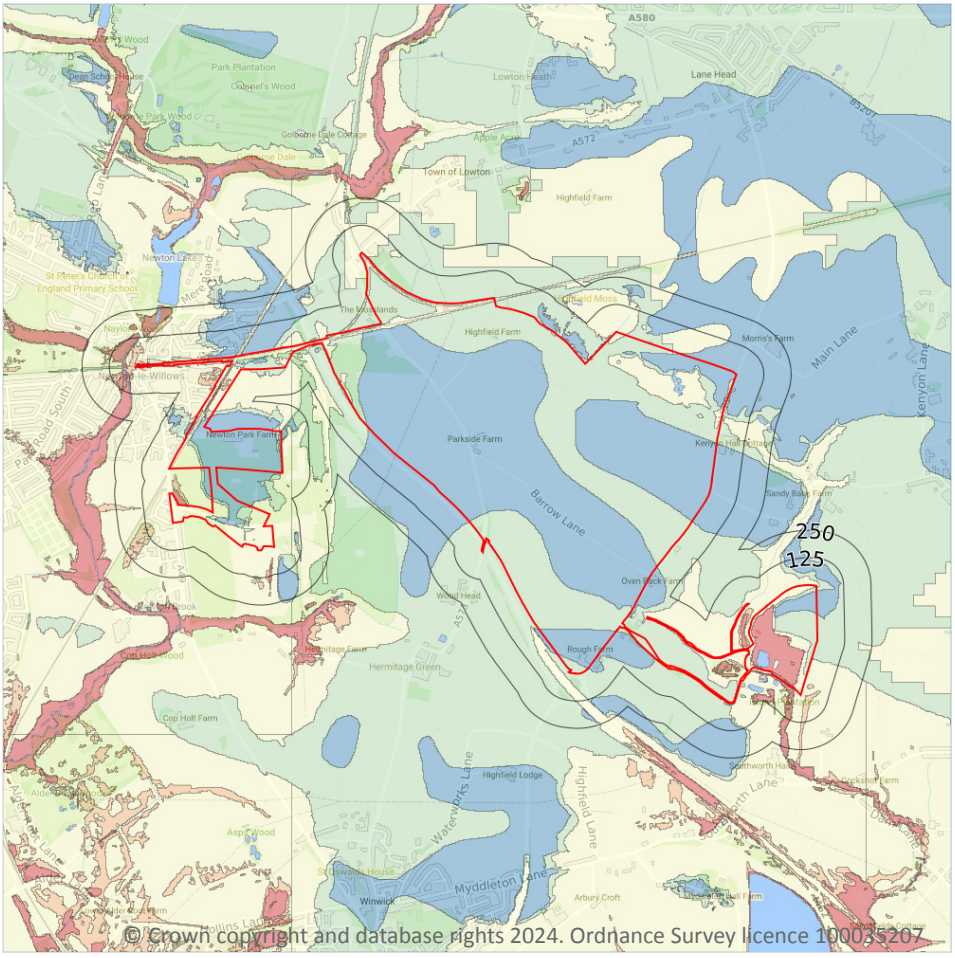
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

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

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

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding



Site Outline

Search buffers in metres (m)

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

9.1 Groundwater flooding

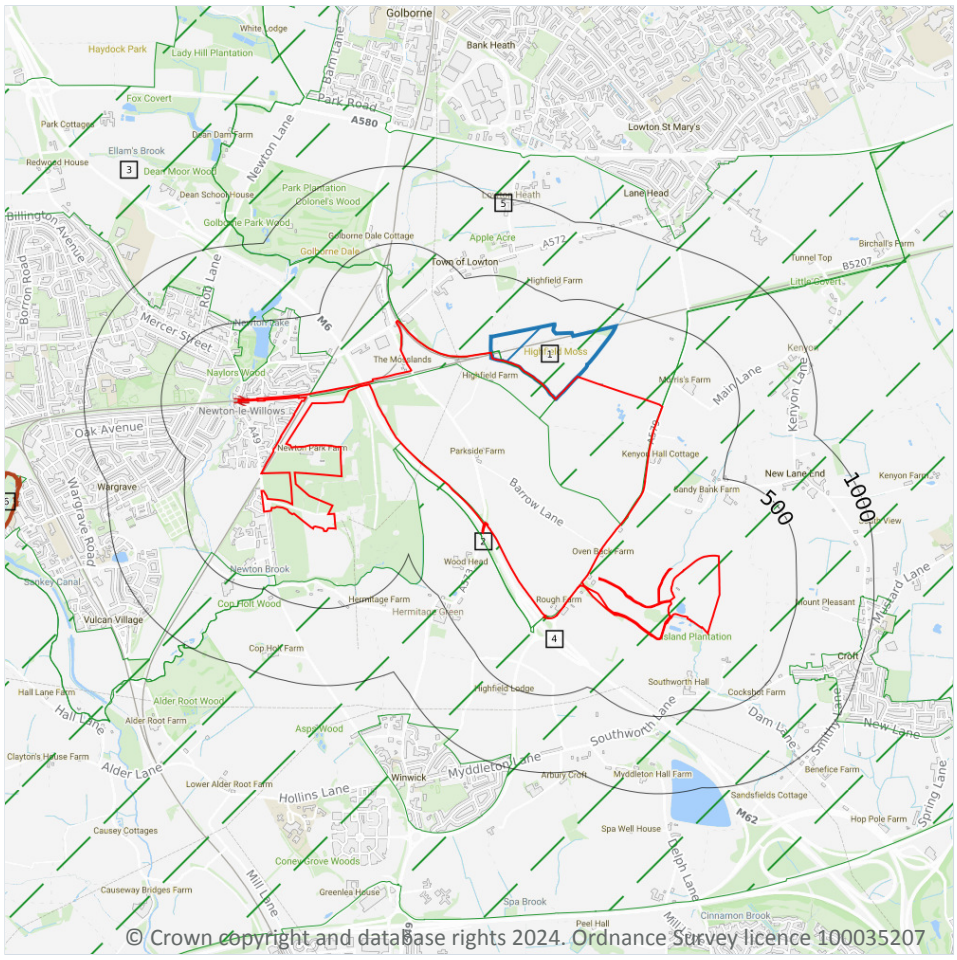
Highest risk on site	**High**
Highest risk within 50m	**High**

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

Features are displayed on the Groundwater flooding map on **page 124 >**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



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Site Outline

Search buffers in metres (m)

- Sites of Special Scientific Interest (SSSI)
- National Nature Reserves (NNR)
- Local Nature Reserves (LNR)
- Designated Ancient Woodland
- Green Belt

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	1

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

Features are displayed on the Environmental designations map on **page 125 >**

ID	Location	Name	Data source
1	**On site**	**Highfield Moss**	**Natural England**

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m	0

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m	0

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m	0

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m	0

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

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

10.7 Designated Ancient Woodland

Records within 2000m	1

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 125 >**

ID	Location	Name	Woodland Type
6	1506m W	Hospital Wood (Red Brow Wood)	Ancient & Semi-Natural Woodland

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

10.8 Biosphere Reserves

Records within 2000m	0

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

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

10.9 Forest Parks

Records within 2000m	0

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

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m	0

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

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

10.11 Green Belt

Records within 2000m	4

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

Features are displayed on the Environmental designations map on **page 125 >**

ID	Location	Name	Local Authority name
2	**On site**	**Merseyside and Greater Manchester**	**St. Helens**
3	**On site**	**Merseyside and Greater Manchester**	**St. Helens**
4	**On site**	**Merseyside and Greater Manchester**	**Warrington**
5	**On site**	**Merseyside and Greater Manchester**	**Wigan**

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

10.12 Proposed Ramsar sites

Records within 2000m	0

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

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m	0

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

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

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m	0

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

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m	0

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

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

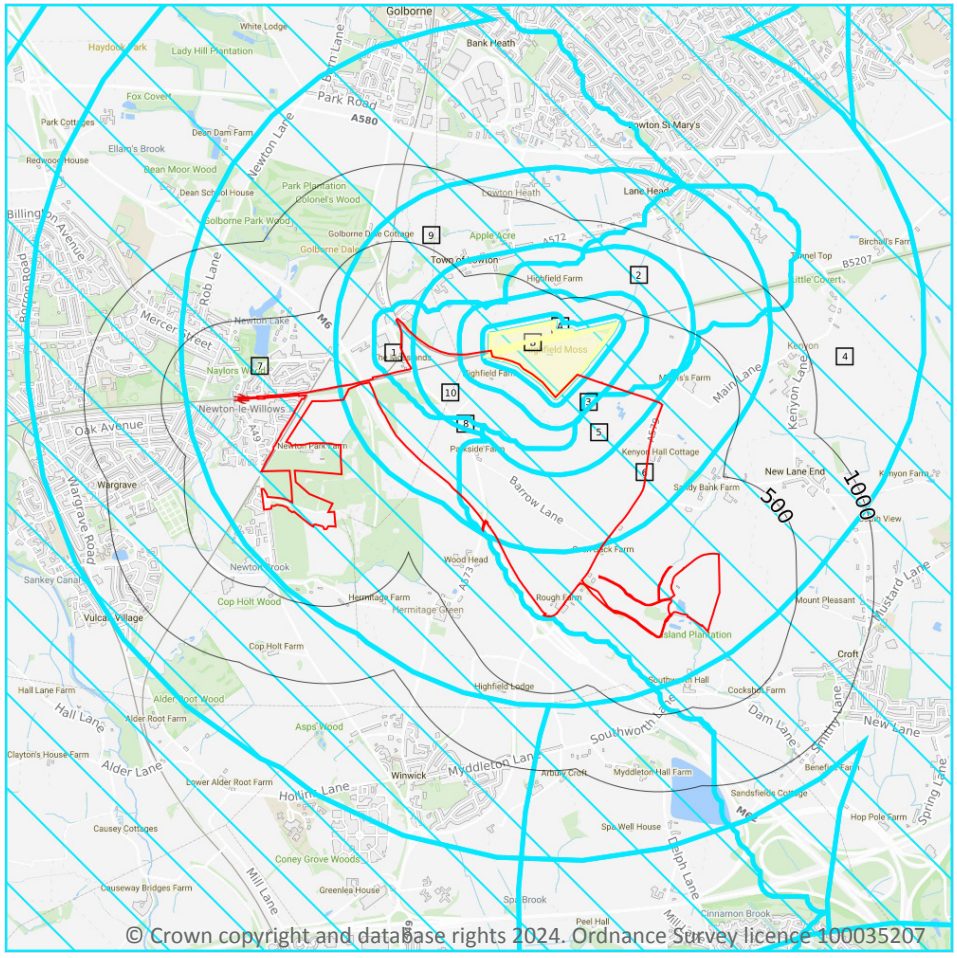
Records within 2000m	8

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

Location	Name	Type	NVZ ID	Status
On site	**Sankey Brook (Black Bk to Mersey) NVZ**	**Surface Water**	**639**	**Existing**
On site	**Winwick**	**Groundwater**	**48**	**Existing**
140m NW	Sankey Brook (Black Bk to Mersey) NVZ	Surface Water	639	Existing
679m NE	River Glaze NVZ	Surface Water	641	Existing
709m NE	River Glaze NVZ	Surface Water	641	Existing
1166m NE	River Glaze NVZ	Surface Water	641	Existing
1676m E	River Glaze NVZ	Surface Water	641	Existing
1942m N	Pennington Flash Eutrophic lake NVZ	Eutrophic Water	138	Existing

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

SSSI Impact Zones and Units



Site Outline

Search buffers in metres (m)

SSSI Impact Risk Zones

SSSI Units

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

10.17 SSSI Impact Risk Zones

Records on site	13

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 131 >**

ID	Location	Type of developments requiring consultation
1	On site	**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. 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 > 1,000m² or footprint exceeds 0.2ha. Residential - Residential development of 100 units or more. Rural residential - Any residential development of 50 or more houses outside existing settlements/urban areas. Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 200m², manure stores > 250t). Combustion - General combustion processes >20MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill. Composting - Any composting proposal with more than 500 tonnes maximum annual operational throughput. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management. Discharges - Any discharge of water or liquid waste of more than 2m³/day 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 > 1,000m² or any development needing its own water supply .**
2	On site	**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. 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 > 1,000m² or footprint exceeds 0.2ha. Residential - Residential development of 100 units or more. Rural residential - Any residential development of 50 or more houses outside existing settlements/urban areas. Air pollution - Any 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 that is discharged 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 > 1,000m² or any development needing its own water supply .**

ID	Location	Type of developments requiring consultation
3	On site	**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. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction. Residential - Residential development of 50 units or more. Rural residential - Any residential development of 10 or more houses outside existing settlements/urban areas. Air pollution - Any development that could cause AIR POLLUTION or DUST either in its construction or operation (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 20m³/day 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 > 1,000m² or any development needing its own water supply .**
4	On site	**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. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction. Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 200m², manure stores > 250t). Combustion - General combustion processes >20MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill. Composting - Any composting proposal with more than 75000 tonnes maximum annual operational throughput. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management. Discharges - Any discharge of water or liquid waste of more than 20m³/day to ground (ie to seep away) or to surface water, such as a beck or stream. Water supply - Large infrastructure such as warehousing / industry where total net additional gross internal floorspace following development is 1,000m² or more.**

ID	Location	Type of developments requiring consultation
5	On site	**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. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction. Residential - Residential development of 100 units or more. Rural residential - Any residential development of 50 or more houses outside existing settlements/urban areas. Air pollution - Any 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 20m³/day 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 > 1,000m² or any development needing its own water supply .**
6	On site	**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. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction. Residential - Residential development of 100 units or more. Rural residential - Any residential development of 50 or more houses outside existing settlements/urban areas. Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 200m², manure stores > 250t). Combustion - General combustion processes >20MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill. Composting - Any composting proposal with more than 500 tonnes maximum annual operational throughput. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management. Discharges - Any discharge of water or liquid waste of more than 20m³/day to ground (ie to seep away) or to surface water, such as a beck or stream. Water supply - Large infrastructure such as warehousing / industry where net additional gross internal floorspace is > 1,000m² or any development needing its own water supply .**

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

ID	Location	Type of developments requiring consultation
9	On site	**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. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction. Residential - Residential development of 100 units or more. Rural residential - Any residential development of 50 or more houses outside existing settlements/urban areas. Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 200m², manure stores > 250t). Combustion - General combustion processes >20MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill. Composting - Any composting proposal with more than 500 tonnes maximum annual operational throughput. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management. Water supply - Large infrastructure such as warehousing / industry where net additional gross internal floorspace is > 1,000m² or any development needing its own water supply .**
10	On site	**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. 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 > 1,000m² or footprint exceeds 0.2ha. Residential - Residential development of 100 units or more. Rural residential - Any residential development of 50 or more houses outside existing settlements/urban areas. Air pollution - Any 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 that is discharged 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 > 1,000m² or any development needing its own water supply .**
A	On site	**All applications - ALL PLANNING APPLICATIONS - EXCEPT HOUSEHOLDER APPLICATIONS.**
A	On site	**All applications - ALL PLANNING APPLICATIONS.**

ID	Location	Type of developments requiring consultation
A	**On site**	**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.** **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 > 1,000m² or footprint exceeds 0.2ha.** **Residential - Residential development of 50 units or more.** **Rural residential - Any residential development of 10 or more houses outside existing settlements/urban areas.** **Air pollution - Any development that could cause AIR POLLUTION or DUST either in its construction or operation (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 that is discharged 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 > 1,000m² or any development needing its own water supply .**

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	**3**

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 131 >**

ID: A
Location: On site
SSSI name: Highfield Moss
Unit name: Mossland
Broad habitat: Fen, Marsh And Swamp - Lowland
Condition: Unfavourable - Recovering
Reportable features:

Feature name	Feature condition	Date of assessment
Lowland dry acid grassland (U5/U6)	Unfavourable - Recovering	07/08/2013
Lowland fens, including basin, flood-plain, open water transition and valley fens	Unfavourable - Recovering	07/08/2013
Nationally scarce plant - Gentiana pneumonanthe, Marsh Gentian	Unfavourable - Recovering	07/08/2013

ID: B
Location: 1m N
SSSI name: Highfield Moss
Unit name: The Railway Cutting
Broad habitat: Acid Grassland - Lowland
Condition: Unfavourable - Recovering
Reportable features:

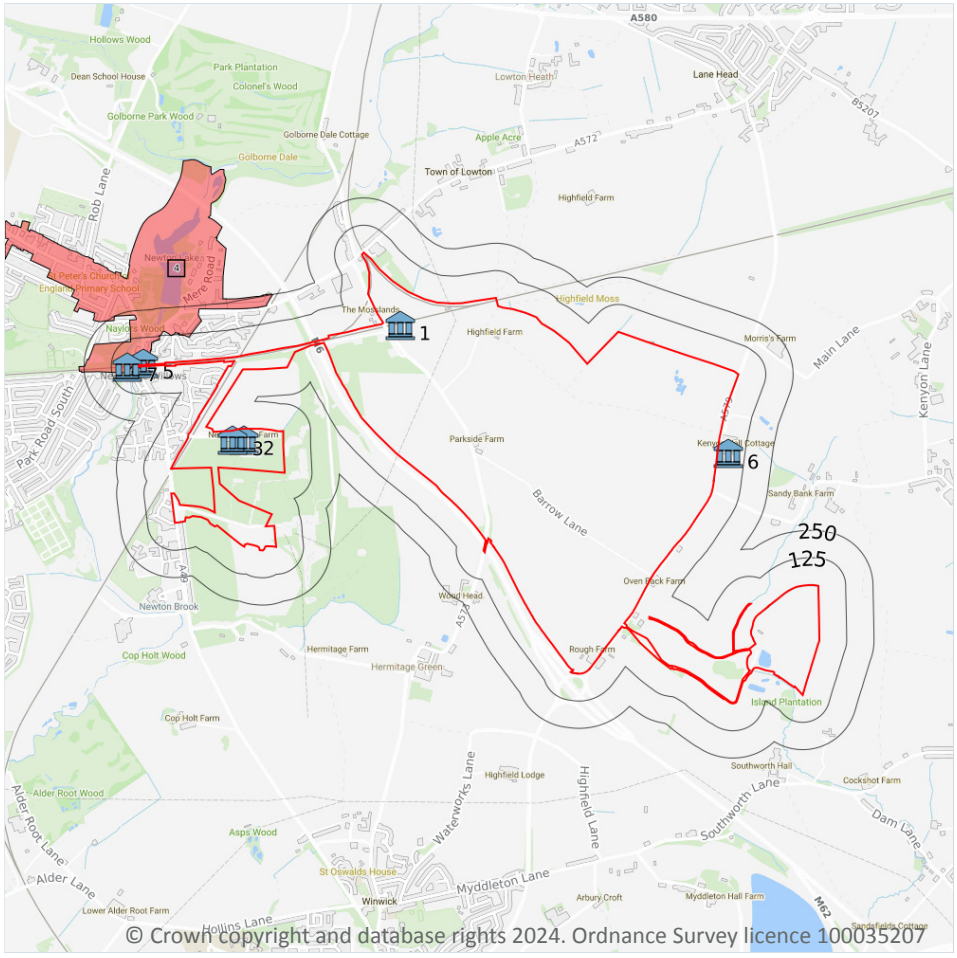
Feature name	Feature condition	Date of assessment
Lowland dry acid grassland (U5/U6)	Unfavourable - Recovering	07/08/2013

ID: B
Location: 1m N
SSSI name: Highfield Moss
Unit name: The Northern Grassland
Broad habitat: Neutral Grassland - Lowland
Condition: Unfavourable - Recovering
Reportable features:

Feature name	Feature condition	Date of assessment
Nationally scarce plant - Gentiana pneumonanthe, Marsh Gentian	Unfavourable - Recovering	07/08/2013

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

11 Visual and cultural designations



Site Outline

Search buffers in metres (m)

- Listed buildings
- Conservation areas
- Conservation areas - no data
- National Parks
- Areas of Outstanding Natural Beauty
- Registered parks and gardens
- Scheduled Monuments
- World Heritage Sites

11.1 World Heritage Sites

Records within 250m	0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m	0

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

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

11.3 National Parks

Records within 250m	0

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

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

11.4 Listed Buildings

Records within 250m	6

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

Features are displayed on the Visual and cultural designations map on **page 139 >**

ID	Location	Name	Grade	Reference Number	Listed date
1	**On site**	**Huskisson Memorial On South Side Of Railway, 60 Metres From Road**	**II**	**1075900**	**03/02/1966**
2	**On site**	**Barn To East Of Newton Park Farmhouse**	**II**	**1075931**	**10/09/1982**
3	**On site**	**Newton Park Farmhouse**	**II**	**1198973**	**10/09/1982**
5	7m W	Newton Le Willows Station	II	1343248	23/08/1985
6	49m E	Wall, Gates And Gate Piers To Front Of Kenyon Hall	II	1356218	27/07/1987

ID	Location	Name	Grade	Reference Number	Listed date
7	52m W	Newton Viaduct To West Of Station	II	1283575	23/08/1985

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

11.5 Conservation Areas

Records within 250m	1

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

Features are displayed on the Visual and cultural designations map on **page 139 >**

ID	Location	Name	District	Date of designation
4	**On site**	**Newton-le-Willows**	**St. Helens**	**29/09/1976**

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

11.6 Scheduled Ancient Monuments

Records within 250m	0

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

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

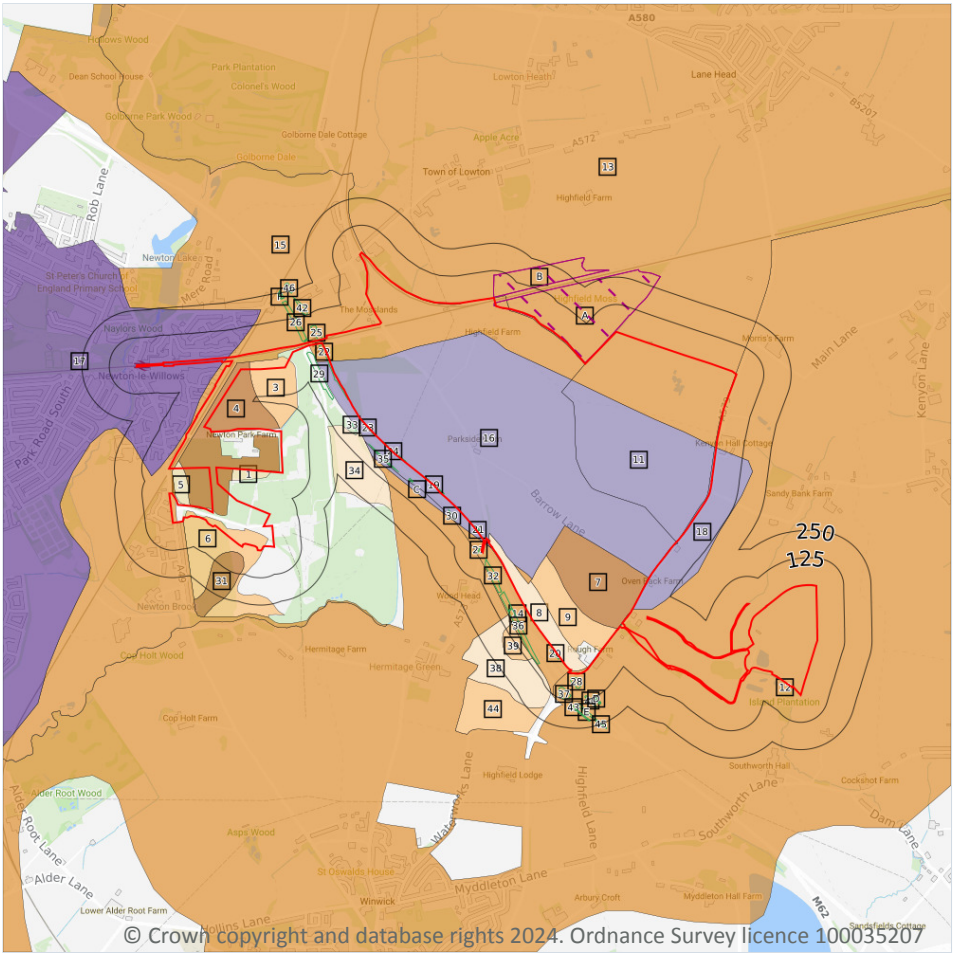
11.7 Registered Parks and Gardens

Records within 250m	0

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

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

12 Agricultural designations



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- Site Outline

Search buffers in metres (m)

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

12.1 Agricultural Land Classification

Records within 250m	22

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 142 >**

ID	Location	Classification	Description
1	On site	Grade 3b	**Moderate quality agricultural land. Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.**

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

ID	Location	Classification	Description
14	**On site**	**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.**
15	**On site**	**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.**
16	**On site**	**Non Agricultural**	**-**
17	**On site**	**Urban**	**-**
18	**On site**	**Non Agricultural**	**-**
31	34m W	Grade 2	Very good quality agricultural land. Land with minor limitations which affect crop yield, cultivations or harvesting. A wide range of agricultural and horticultural crops can usually be grown but on some land in the grade there may be reduced flexibility due to difficulties with the production of the more demanding crops such as winter harvested vegetables and arable root crops. The level of yield is generally high but may be lower or more variable than Grade 1.
34	43m W	Grade 3b	Moderate quality agricultural land. Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.
C	47m SW	Non Agricultural	-
38	85m S	Grade 3b	Moderate quality agricultural land. Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.
39	90m S	Grade 3a	Good quality agricultural land. Land capable of consistently producing moderate to high yields of a narrow range of arable crops, especially cereals, or moderate yields of a wide range of crops including cereals, grass, oilseed rape, potatoes, sugar beet and the less demanding horticultural crops.
44	196m S	Grade 3a	Good quality agricultural land. Land capable of consistently producing moderate to high yields of a narrow range of arable crops, especially cereals, or moderate yields of a wide range of crops including cereals, grass, oilseed rape, potatoes, sugar beet and the less demanding horticultural crops.

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m	4

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 142 >**

ID	Location	Name	Classification	Other relevant legislation
A	**On site**	**Highfield Moss**	**Section 4 Conclusive Registered Common Land**	**-**
A	**On site**	**Highfield Moss**	**Section 15 Land**	**S.193 - Urban Borough District**
B	2m N	Highfield Moss	Section 4 Conclusive Registered Common Land	-
B	2m N	Highfield Moss	Section 15 Land	S.193 - Urban Borough District

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

12.3 Tree Felling Licences

Records within 250m	30

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

Features are displayed on the Agricultural designations map on **page 142 >**

ID	Location	Description	Reference	Application date
19	**On site**	**Selective Fell/Thin (Unconditional)**	**018/366/15-16**	**-**
20	**On site**	**Selective Fell/Thin (Unconditional)**	**018/366/15-16**	**-**
21	**On site**	**Selective Fell/Thin (Unconditional)**	**018/366/15-16**	**-**
22	**On site**	**Selective Fell/Thin (Unconditional)**	**018/366/15-16**	**-**
23	**On site**	**Selective Fell/Thin (Unconditional)**	**018/366/15-16**	**-**
24	**On site**	**Selective Fell/Thin (Unconditional)**	**018/366/15-16**	**-**
25	3m NW	Selective Fell/Thin (Unconditional)	018/366/15-16	-
26	7m NW	Selective Fell/Thin (Unconditional)	018/366/15-16	-
27	10m SW	Selective Fell/Thin (Unconditional)	018/366/15-16	-

ID	Location	Description	Reference	Application date
28	18m S	Selective Fell/Thin (Unconditional)	018/366/15-16	-
29	28m NW	Selective Fell/Thin (Unconditional)	018/366/15-16	-
30	33m SW	Selective Fell/Thin (Unconditional)	018/366/15-16	-
32	35m S	Selective Fell/Thin (Unconditional)	018/366/15-16	-
33	43m W	Selective Fell/Thin (Unconditional)	018/366/15-16	-
C	44m W	Selective Fell/Thin (Unconditional)	018/366/15-16	-
35	49m W	Selective Fell/Thin (Unconditional)	018/366/15-16	-
36	52m S	Selective Fell/Thin (Unconditional)	018/366/15-16	-
37	75m S	Selective Fell/Thin (Unconditional)	018/366/15-16	-
40	105m S	Selective Fell/Thin (Unconditional)	018/366/15-16	-
D	112m S	Selective Fell/Thin (Unconditional)	018/366/15-16	-
42	126m NW	Selective Fell/Thin (Unconditional)	018/366/15-16	-
E	136m S	Selective Fell/Thin (Unconditional)	018/366/15-16	-
43	145m S	Selective Fell/Thin (Unconditional)	018/366/15-16	-
D	154m S	Single Tree	018/366/15-16	-
D	154m S	Single Tree	018/366/15-16	-
E	162m S	Selective Fell/Thin (Unconditional)	018/366/15-16	-
F	221m NW	Selective Fell/Thin (Unconditional)	018/366/15-16	-
F	223m NW	Selective Fell/Thin (Unconditional)	018/366/15-16	-
45	227m S	Selective Fell/Thin (Unconditional)	018/366/15-16	-
46	238m NW	Selective Fell/Thin (Unconditional)	018/366/15-16	-

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m	**10**

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
On site	**AG00295740**	**Entry Level plus Higher Level Stewardship**	**01/09/2009**	**31/08/2019**
On site	**AG00295740**	**Entry Level plus Higher Level Stewardship**	**01/09/2009**	**31/08/2019**
On site	**AG00295740**	**Entry Level plus Higher Level Stewardship**	**01/09/2009**	**31/08/2019**
On site	**AG00295740**	**Entry Level plus Higher Level Stewardship**	**01/09/2009**	**31/08/2019**
On site	**AG00295740**	**Entry Level plus Higher Level Stewardship**	**01/09/2009**	**31/08/2019**
On site	**AG00295740**	**Entry Level plus Higher Level Stewardship**	**01/09/2009**	**31/08/2019**
On site	**AG00452286**	**Higher Level Stewardship**	**01/05/2013**	**30/04/2023**
1m N	AG00452286	Higher Level Stewardship	01/05/2013	30/04/2023
22m SW	AG00295740	Entry Level plus Higher Level Stewardship	01/09/2009	31/08/2019
81m S	AG00295740	Entry Level plus Higher Level Stewardship	01/09/2009	31/08/2019

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m	**12**

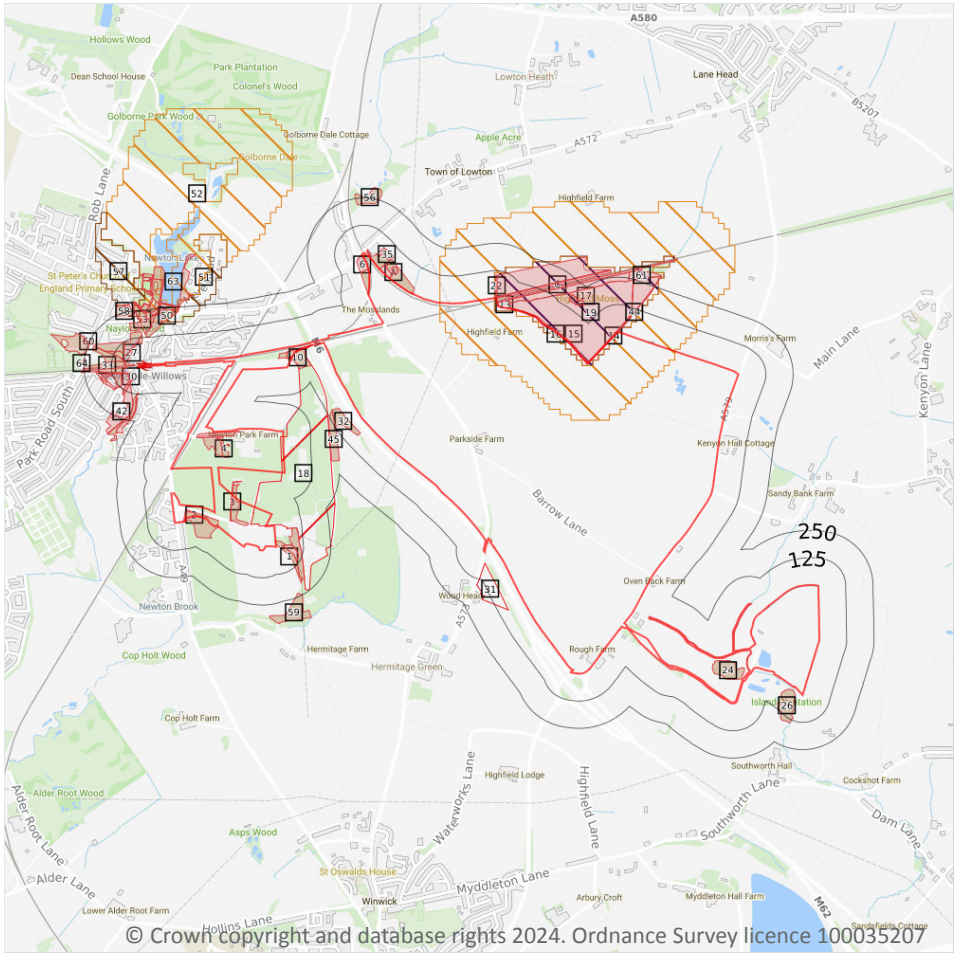
Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

Location	Reference	Scheme	Start Date	End Date
On site	**1452975**	**Countryside Stewardship (Middle Tier)**	**01/01/2023**	**31/12/2027**
On site	**1273467**	**Countryside Stewardship (Middle Tier)**	**01/01/2022**	**31/12/2026**
On site	**1273467**	**Countryside Stewardship (Middle Tier)**	**01/01/2022**	**31/12/2026**
On site	**1261919**	**Countryside Stewardship (Middle Tier)**	**01/01/2022**	**31/12/2026**
On site	**1261919**	**Countryside Stewardship (Middle Tier)**	**01/01/2022**	**31/12/2026**
On site	**1261919**	**Countryside Stewardship (Middle Tier)**	**01/01/2022**	**31/12/2026**
On site	**1261919**	**Countryside Stewardship (Middle Tier)**	**01/01/2022**	**31/12/2026**

Location	Reference	Scheme	Start Date	End Date
On site	**1261919**	**Countryside Stewardship (Middle Tier)**	**01/01/2022**	**31/12/2026**
9m E	1273467	Countryside Stewardship (Middle Tier)	01/01/2022	31/12/2026
127m S	1452975	Countryside Stewardship (Middle Tier)	01/01/2023	31/12/2027
152m S	1273467	Countryside Stewardship (Middle Tier)	01/01/2022	31/12/2026
213m SW	1261919	Countryside Stewardship (Middle Tier)	01/01/2022	31/12/2026

This data is sourced from Natural England.

13 Habitat designations



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13.1 Priority Habitat Inventory

Records within 250m	68

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 149 >**

ID	Location	Main Habitat	Other habitats
1	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

ID	Location	Main Habitat	Other habitats
5	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
6	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
7	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
8	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
9	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
10	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
11	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
12	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
13	**On site**	**Lowland fens**	**Main habitat: LFENS (ENSIS L1)**
14	**On site**	**Lowland fens**	**Main habitat: LFENS (INV > 50%, ENSIS L1)**
15	**On site**	**Lowland fens**	**Main habitat: LFENS (INV > 50%, ENSIS L1); Additional: LRBOG (FEP 50%)**
16	**On site**	**Lowland fens**	**Main habitat: LFENS (INV > 50%, ENSIS L1); LRBOG (FEP + HLS)**
A	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
19	1m N	Lowland fens	Main habitat: LFENS (INV > 50%, ENSIS L1); LRBOG (FEP + HLS)
20	1m N	Lowland fens	Main habitat: LFENS (INV > 50%); PMGRP (FEP + HLS)
21	3m N	Lowland fens	Main habitat: LFENS (INV > 50%)
22	3m N	Lowland fens	Main habitat: LFENS (INV > 50%); PMGRP (FEP + HLS)
C	4m N	Lowland fens	Main habitat: LFENS (INV > 50%)
C	4m N	Lowland fens	Main habitat: LFENS (INV > 50%); PMGRP (FEP + HLS)
23	5m N	Lowland fens	Main habitat: LFENS (INV > 50%); PMGRP (FEP + HLS)
24	8m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
25	13m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
26	16m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
27	18m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
28	26m N	Lowland fens	Main habitat: LFENS (INV > 50%, ENSIS L1); LRBOG (FEP + HLS)
A	29m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
29	29m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
30	47m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

ID	Location	Main Habitat	Other habitats
32	51m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
33	52m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
34	53m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
35	54m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
36	55m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
37	58m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
38	60m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
39	62m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
40	74m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
41	81m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
42	83m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
43	87m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
44	95m NE	Lowland fens	Main habitat: LFENS (INV > 50%, ENSIS L1)
45	99m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
D	120m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
46	124m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
47	131m NE	Lowland fens	Main habitat: LFENS (INV > 50%, ENSIS L1)
48	134m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
D	141m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
E	141m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
B	152m N	Lowland fens	Main habitat: LFENS (INV > 50%, ENSIS L1); LRBOG (FEP + HLS)
49	160m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
50	173m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
54	206m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
F	209m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
55	214m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
56	219m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
58	230m W	No main habitat but additional habitats present	Main habitat: DWOOD (INV > 50%)

ID	Location	Main Habitat	Other habitats
59	234m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
F	240m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
60	240m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
61	241m NE	Lowland fens	Main habitat: LFENS (INV > 50%, ENSIS L1); DWOOD (INV > 50%); LRBOG (FEP + HLS)
62	244m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
E	246m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
63	248m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
64	248m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m	**6**

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 149 >**

ID	Location	Type	Habitat
17	**On site**	**Network Enhancement Zone 1**	**Not specified**
B	**On site**	**Primary Habitat**	**Lowland fens**
51	181m W	Network Enhancement Zone 2	Not specified
52	186m W	Network Enhancement Zone 1	Not specified
53	196m W	Network Enhancement Zone 2	Not specified
57	223m W	Network Enhancement Zone 2	Not specified

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m	2

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

Features are displayed on the Habitat designations map on **page 149 >**

ID	Location	Site reference	Identification confidence	Primary source	Secondary source	Tertiary source
18	**On site**	**NLUD Ref: 431500005; BRITPITS ref: 4778**	**Low**	**National Land Use Database - Previously Developed Land**	**British Geological Survey BRITPITS database**	**UK Perspectives Aerial Photography**
31	51m SW	BRITPITS ref: 14525	Low	British Geological Survey BRITPITS database	UK Perspectives Aerial Photography	-

This data is sourced from Natural England.

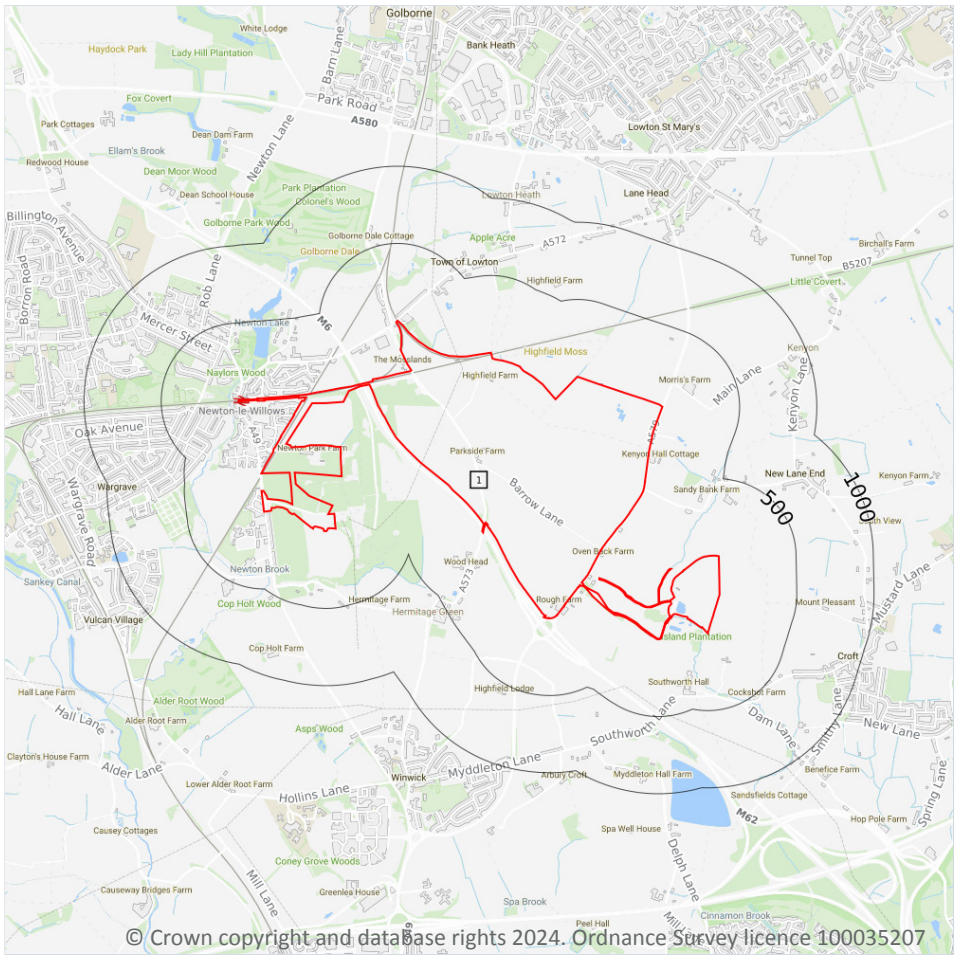
13.4 Limestone Pavement Orders

Records within 250m	0

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

This data is sourced from Natural England.

14 Geology 1:10,000 scale - Availability



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Site Outline

Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m	1

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

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 154 >**

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

This data is sourced from the British Geological Survey.

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

14.2 Artificial and made ground (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial

14.3 Superficial geology (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Bedrock

14.5 Bedrock geology (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

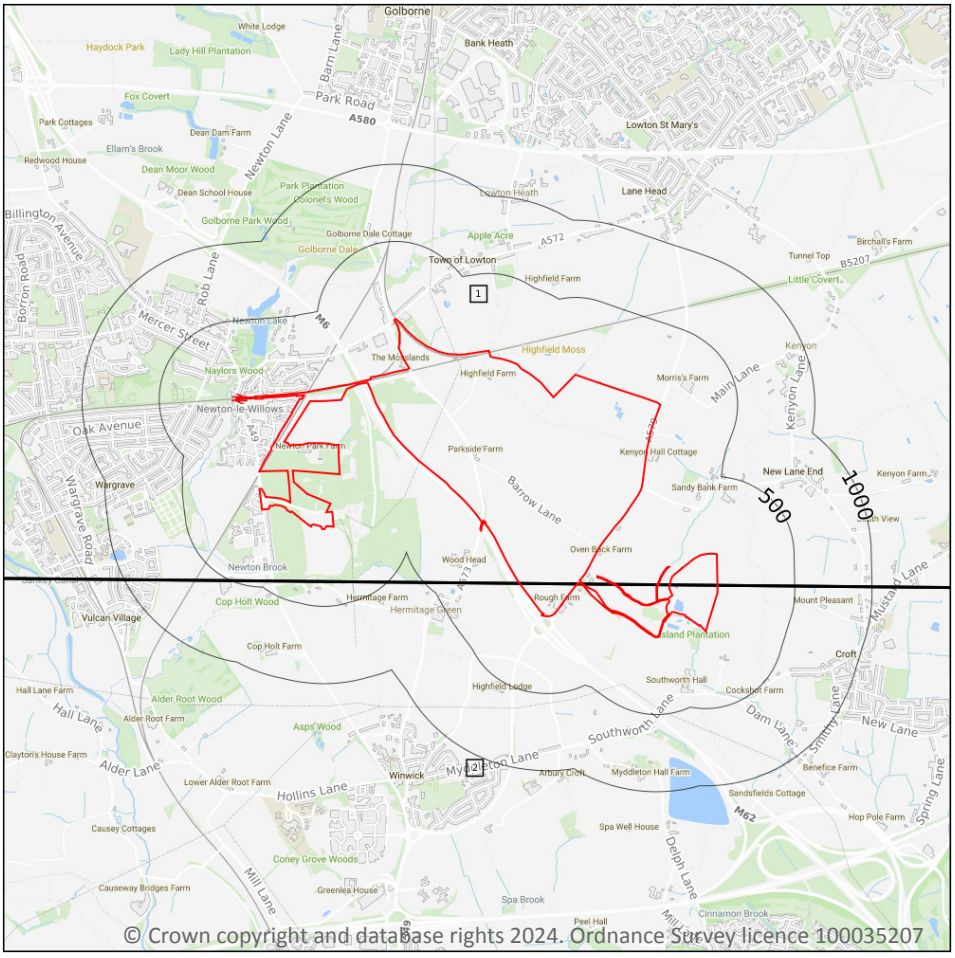
14.6 Bedrock faults and other linear features (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

15 Geology 1:50,000 scale - Availability



15.1 50k Availability

Records within 500m	2

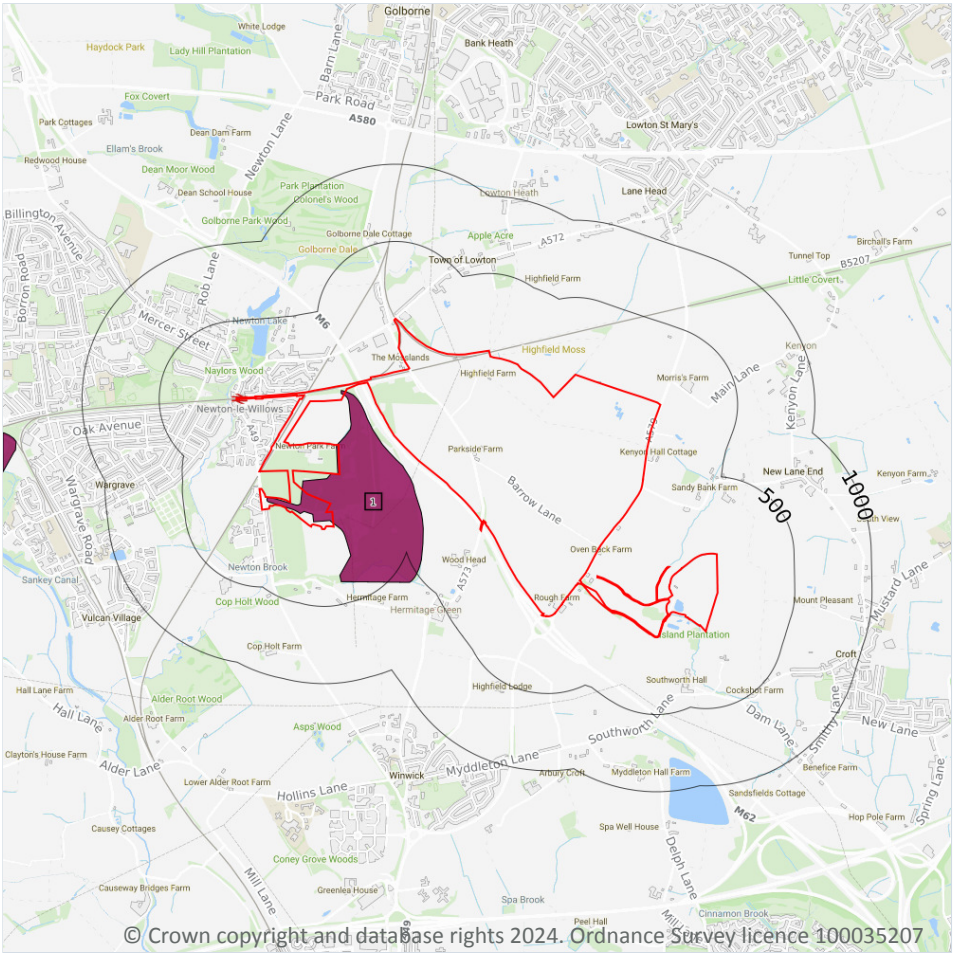
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 158 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	No coverage	EW084_wigan_v4
2	On site	No coverage	Full	Full	No coverage	EW097_runcorn_v4

This data is sourced from the British Geological Survey.

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



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Site Outline

Search buffers in metres (m)

- Made ground
- Worked ground
- Infilled ground
- Disturbed ground
- Landscaped ground

15.2 Artificial and made ground (50k)

Records within 500m	1

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

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 159 >**

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

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

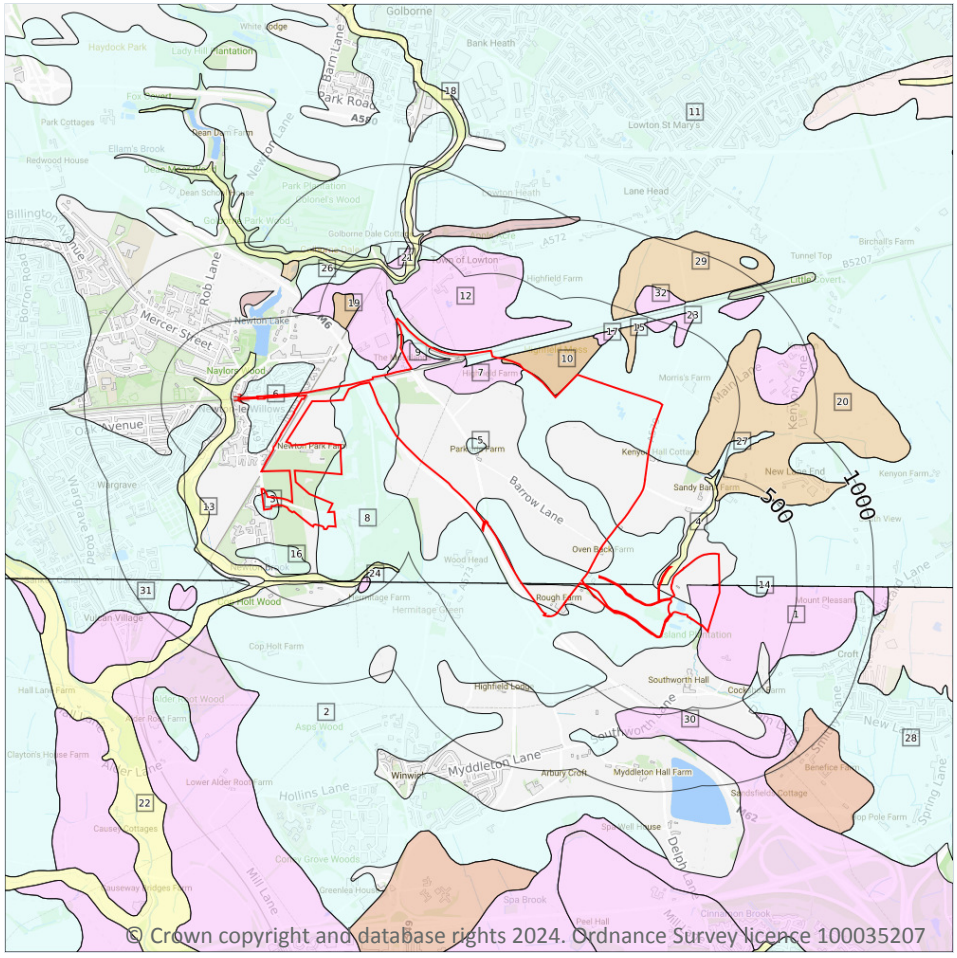
Records within 50m	**4**

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**
On site	**Mixed**	**Very High**	**Low**
On site	**Mixed**	**Very High**	**Low**
10m W	Mixed	Very High	Low

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

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

15.4 Superficial geology (50k)

Records within 500m	32

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 161 >**

ID	Location	LEX Code	Description	Rock description
1	On site	GFDUD-XSV	GLACIOFLUVIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL
2	On site	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
3	On site	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON

ID	Location	LEX Code	Description	Rock description
4	**On site**	**ALV-XCZSV**	**ALLUVIUM**	**CLAY, SILT, SAND AND GRAVEL**
5	**On site**	**TILLD-DMTN**	**TILL, DEVENSIAN**	**DIAMICTON**
6	**On site**	**TILLD-DMTN**	**TILL, DEVENSIAN**	**DIAMICTON**
7	**On site**	**GFICD-XSV**	**GLACIOFLUVIAL ICE CONTACT DEPOSITS, DEVENSIAN**	**SAND AND GRAVEL**
8	**On site**	**TILLD-DMTN**	**TILL, DEVENSIAN**	**DIAMICTON**
9	**On site**	**GFICD-XSV**	**GLACIOFLUVIAL ICE CONTACT DEPOSITS, DEVENSIAN**	**SAND AND GRAVEL**
10	**On site**	**PEAT-P**	**PEAT**	**PEAT**
11	**On site**	**TILLD-DMTN**	**TILL, DEVENSIAN**	**DIAMICTON**
12	3m NW	GFICD-XSV	GLACIOFLUVIAL ICE CONTACT DEPOSITS, DEVENSIAN	SAND AND GRAVEL
13	45m W	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
14	117m SE	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
15	120m NE	LDE-XCZ	LACUSTRINE DEPOSITS	CLAY AND SILT
16	173m W	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
17	228m NE	GFICD-XSV	GLACIOFLUVIAL ICE CONTACT DEPOSITS, DEVENSIAN	SAND AND GRAVEL
18	245m NW	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
19	255m NW	PEAT-P	PEAT	PEAT
20	257m E	LDE-XCZ	LACUSTRINE DEPOSITS	CLAY AND SILT
21	323m NW	GFICD-XSV	GLACIOFLUVIAL ICE CONTACT DEPOSITS, DEVENSIAN	SAND AND GRAVEL
22	339m SW	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
23	376m NE	GFICD-XSV	GLACIOFLUVIAL ICE CONTACT DEPOSITS, DEVENSIAN	SAND AND GRAVEL
24	378m SW	GFDUD-XSV	GLACIOFLUVIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL
25	393m SW	GFDUD-XSV	GLACIOFLUVIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL
26	396m NW	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
27	399m E	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
28	409m SE	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
29	410m NE	LDE-XCZ	LACUSTRINE DEPOSITS	CLAY AND SILT

ID	Location	LEX Code	Description	Rock description
30	457m SE	GFDUD-XSV	GLACIOFLUVIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL
31	475m SW	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
32	499m NE	GFICD-XSV	GLACIOFLUVIAL ICE CONTACT DEPOSITS, DEVENSIAN	SAND AND GRAVEL

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	**20**

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Intergranular**	**High**	**Very Low**
On site	**Mixed**	**Low**	**Very Low**
On site	**Intergranular**	**Very High**	**High**
On site	**Intergranular**	**Very High**	**High**
On site	**Mixed**	**High**	**Low**
On site	**Mixed**	**High**	**Low**
On site	**Mixed**	**High**	**Low**
On site	**Mixed**	**High**	**Low**
On site	**Mixed**	**High**	**Low**
On site	**Mixed**	**High**	**Low**
On site	**Mixed**	**High**	**Low**
On site	**Mixed**	**High**	**Low**
On site	**Mixed**	**High**	**Low**
On site	**Mixed**	**High**	**Low**
On site	**Mixed**	**High**	**Low**
On site	**Intergranular**	**Very High**	**High**
3m NW	Intergranular	Very High	High
7m W	Mixed	High	Low

Location	Flow type	Maximum permeability	Minimum permeability
43m W	Mixed	High	Low
45m W	Intergranular	High	Very Low

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

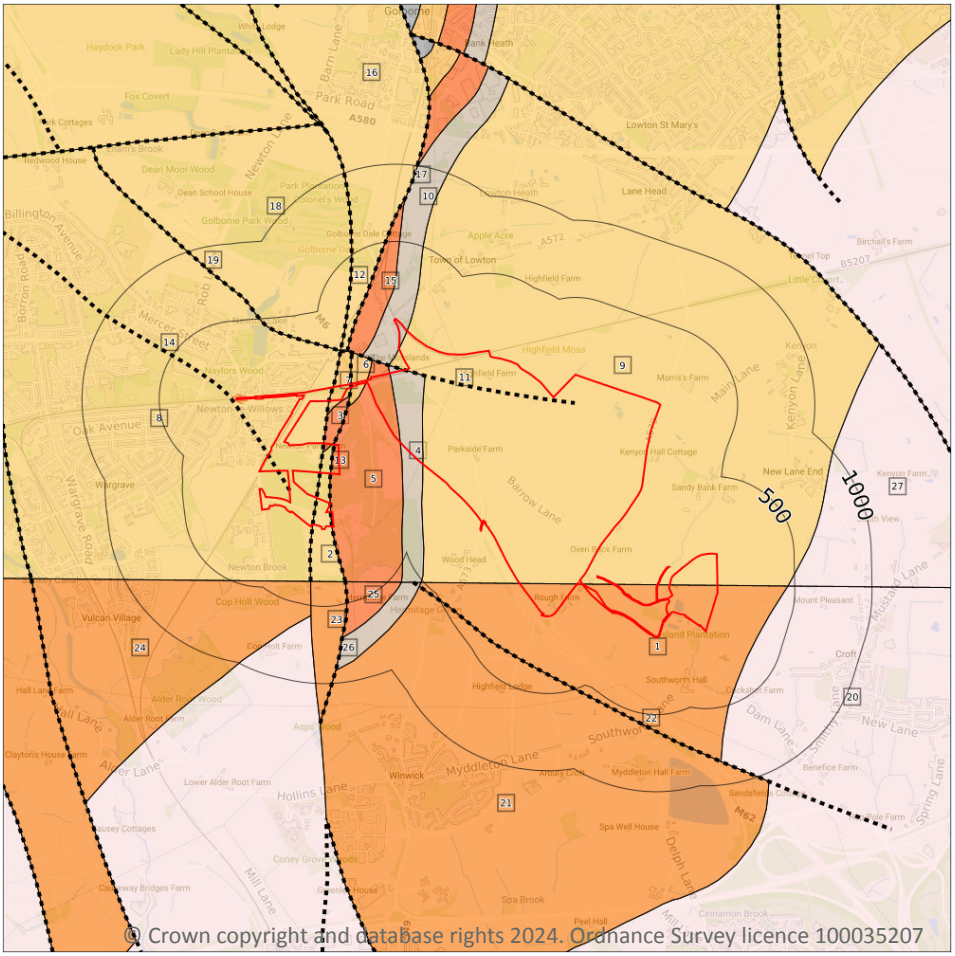
15.7 Landslip permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (50k)

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

15.8 Bedrock geology (50k)

Records within 500m	19

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 165 >**

ID	Location	LEX Code	Description	Rock age
1	On site	CHES-PESST	CHESTER FORMATION - SANDSTONE, PEBBLY (GRAVELLY)	OLENEKIAN
2	On site	CHES-SDST	CHESTER FORMATION - SANDSTONE	OLENEKIAN
3	On site	MM-MDST	MANCHESTER MARLS FORMATION - MUDSTONE	-
4	On site	KNSF-SDST	KINNERTON SANDSTONE FORMATION - SANDSTONE	-

ID	Location	LEX Code	Description	Rock age
5	**On site**	**MM-MDST**	**MANCHESTER MARLS FORMATION - MUDSTONE**	**-**
6	**On site**	**CS-SDST**	**COLLYHURST SANDSTONE FORMATION - SANDSTONE**	**-**
7	**On site**	**CS-SDST**	**COLLYHURST SANDSTONE FORMATION - SANDSTONE**	**-**
8	**On site**	**CHES-SDST**	**CHESTER FORMATION - SANDSTONE**	**OLENEKIAN**
9	**On site**	**CHES-SDST**	**CHESTER FORMATION - SANDSTONE**	**OLENEKIAN**
10	**On site**	**KNSF-SDST**	**KINNERTON SANDSTONE FORMATION - SANDSTONE**	**-**
15	80m NW	MM-MDST	MANCHESTER MARLS FORMATION - MUDSTONE	-
16	212m NW	CHES-SDST	CHESTER FORMATION - SANDSTONE	OLENEKIAN
18	226m NW	CHES-SDST	CHESTER FORMATION - SANDSTONE	OLENEKIAN
20	314m SE	WLSF-SDST	WILMSLOW SANDSTONE FORMATION - SANDSTONE	-
21	317m S	CHES-PESST	CHESTER FORMATION - SANDSTONE, PEBBLY (GRAVELLY)	OLENEKIAN
23	339m SW	CHES-PESST	CHESTER FORMATION - SANDSTONE, PEBBLY (GRAVELLY)	OLENEKIAN
24	347m SW	CHES-PESST	CHESTER FORMATION - SANDSTONE, PEBBLY (GRAVELLY)	OLENEKIAN
25	364m SW	MM-MDST	MANCHESTER MARLS FORMATION - MUDSTONE	-
27	457m SE	WLSF-SDST	WILMSLOW SANDSTONE FORMATION - SANDSTONE	-

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	**15**

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	**Mixed**	**High**	**Moderate**
On site	**Intergranular**	**High**	**High**
On site	**Intergranular**	**High**	**High**
On site	**Fracture**	**Low**	**Low**
On site	**Fracture**	**Low**	**Low**
On site	**Fracture**	**Low**	**Low**

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Fracture**	**Low**	**Low**
On site	**Intergranular**	**High**	**High**
On site	**Intergranular**	**High**	**High**
On site	**Mixed**	**High**	**Moderate**
On site	**Mixed**	**High**	**Moderate**
On site	**Mixed**	**High**	**Moderate**
On site	**Mixed**	**High**	**Moderate**
On site	**Mixed**	**High**	**Moderate**
10m W	Fracture	Low	Low

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	**8**

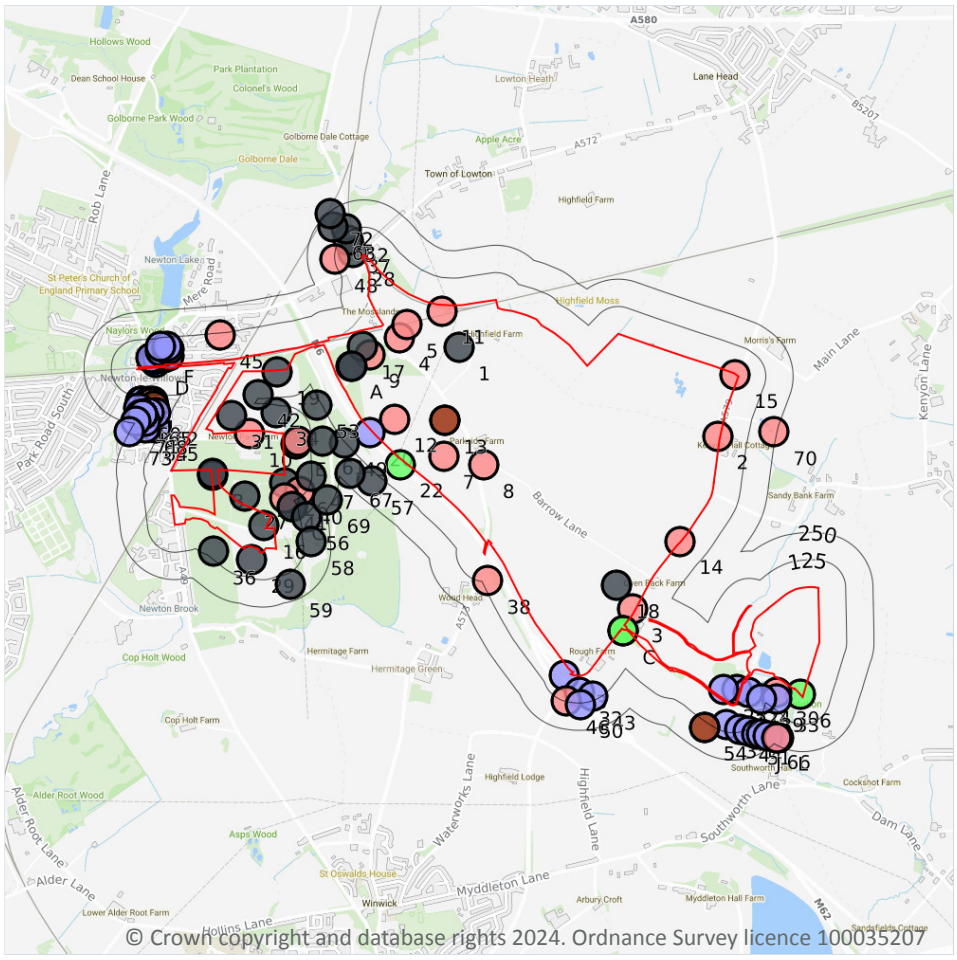
Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 165 >**

ID	Location	Category	Description
11	**On site**	**FAULT**	**Fault, inferred**
12	**On site**	**FAULT**	**Fault, inferred**
13	**On site**	**FAULT**	**Fault, inferred**
14	**On site**	**FAULT**	**Fault, inferred**
17	212m NW	FAULT	Fault, inferred
19	226m NW	FAULT	Fault, inferred
22	317m S	FAULT	Fault, inferred
26	364m SW	FAULT	Fault, inferred

This data is sourced from the British Geological Survey.

16 Boreholes



Site Outline

Search buffers in metres (m)

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

16.1 BGS Boreholes

Records within 250m	137

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 168 >**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	360789 395416	PARKSIDE 46	-	Y	N/A
2	On site	361970 395010	KENYON HALL	33.83	N	761722 ↗
3	On site	361580 394220	A3/22 ROUGH FARM	802.54	N	943672 ↗

ID	Location	Grid reference	Name	Length	Confidential	Web link
4	**On site**	**360515 395460**	**PARKSIDE JUNCTION A3/20**	**470.91**	**N**	**761689**
5	**On site**	**360550 395522**	**RLY PARKSIDE JUNCTION 1**	**90.22**	**N**	**761675**
6	**On site**	**362350 393830**	**SOUTHWORTH QUARRY 3WT**	**30.0**	**N**	**944916**
7	**On site**	**360717 394919**	**PARKSIDE ROAD NO. 4**	**30.48**	**N**	**945096**
8	**On site**	**360900 394880**	**A3/10/2 PARKSIDE FARM**	**178.31**	**N**	**943654**
9	**On site**	**360378 395385**	**PARKSIDE ROAD NO. 1**	**30.48**	**N**	**761922**
10	**On site**	**359829 395022**	**NEWTON PARK FARM A3/10/23**	**128.01**	**N**	**170419**
11	**On site**	**360710 395583**	**RLY PARKSIDE JUNCTION 3**	**139.45**	**N**	**761676**
12	**On site**	**360494 395088**	**PARKSIDE ROAD NO. 2**	**30.48**	**N**	**761923**
13	**On site**	**360721 395083**	**PARKSIDE ROAD NO. 3**	**-1.0**	**N**	**761924**
14	**On site**	**361800 394530**	**OVEN BACK COTTAGE A3/10/6**	**269.75**	**N**	**943657**
15	**On site**	**362052 395292**	**A3/10/5 MORRIS'S FARM**	**215.19**	**N**	**761679**
16	**On site**	**359893 394602**	**PARKSIDE COLLIERY TP 23**	**-**	**Y**	**N/A**
17	**On site**	**360345 395422**	**PARKSIDE COLLIERY 6**	**-**	**Y**	**N/A**
18	**On site**	**361510 394330**	**PARKSIDE COLLIERY U/G 48**	**-**	**Y**	**N/A**
A	**On site**	**360293 395332**	**PARKSIDE COLLIERY 6A**	**-**	**Y**	**N/A**
A	**On site**	**360299 395330**	**PARKSIDE COLLIERY TP 27**	**-**	**Y**	**N/A**
B	**On site**	**359659 394832**	**PARKSIDE COLLIERY TP 12**	**-**	**Y**	**N/A**
B	**On site**	**359658 394842**	**PARKSIDE COLLIERY 7**	**-**	**Y**	**N/A**
C	5m SE	361540 394120	SOUTHWORTH QUARRY 1WT	30.0	N	944914
C	5m SE	361540 394120	SOUTHWORTH QUARRY 1WT	30.0	N	945088
19	6m W	359956 395307	PARKSIDE COLLIERY TP 9	-	Y	N/A
20	11m W	360382 395026	MNC52 M62/CCTV BH19	5.0	N	761881
21	13m SE	362060 393850	SOUTHWORTH HALL SA5	4.4	N	943699
D	19m W	359400 395350	NEWTON LE WILLOWS TP 2	0.0	N	170692
22	21m W	360520 394880	CROMBOUKE SEAM. A.I. RETURN BH	28.96	N	943693
D	29m W	359390 395360	NEWTON LE WILLOWS 3	4.0	N	170690
23	30m S	361269 393916	MNC52 M62/CCTV BH18	0.7	N	944955

ID	Location	Grid reference	Name	Length	Confidential	Web link
D	32m W	359440 395370	NEWTON LE WILLOWS TP 4	4.0	N	170694 ↗
24	33m SE	362110 393840	SOUTHWORTH HALL SA4	4.7	N	943698 ↗
D	34m W	359430 395370	NEWTON LE WILLOWS 2	6.0	N	170689 ↗
25	35m SE	362000 393850	SOUTHWORTH HALL SA6	2.8	N	943700 ↗
26	37m W	359991 394798	PARKSIDE COLLIERY TP 24	-	Y	N/A
27	37m W	359809 394735	PARKSIDE COLLIERY 4	-	Y	N/A
D	38m W	359410 395370	NEWTON LE WILLOWS TP 3	4.0	N	170693 ↗
D	40m W	359380 395370	NEWTON LE WILLOWS TP 1	1.0	N	170691 ↗
D	41m W	359460 395380	NEWTON LE WILLOWS TP 5	4.0	N	170695 ↗
28	47m NW	360300 395850	GOLBORNE DALE RD SEWER BH8	-	Y	N/A
29	49m W	359840 394446	PARKSIDE COLLIERY TP 13A	-	Y	N/A
E	57m W	360040 394977	PARKSIDE COLLIERY TP 26	-	Y	N/A
30	57m SE	362240 393840	SOUTHWORTH HALL (DRIFT)	44.8	N	943707 ↗
F	62m W	359440 395400	NEWTON LE WILLOWS TP 8	4.0	N	170698 ↗
31	65m W	359746 395105	PARKSIDE COLLIERY TP 11	-	Y	N/A
F	66m W	359420 395400	NEWTON LE WILLOWS TP 9	3.0	N	170699 ↗
E	67m W	360050 394990	A3/10 NEWTON PARK	593.78	N	943677 ↗
F	71m W	359450 395410	NEWTON LE WILLOWS 1	6.5	N	170688 ↗
F	71m W	359460 395410	NEWTON LE WILLOWS TP 6	5.0	N	170696 ↗
32	75m S	361340 393840	MNC52 M62/CCTV TP10	0.8	N	944959 ↗
F	81m W	359450 395420	NEWTON LE WILLOWS TP 7	4.0	N	170697 ↗
33	82m SE	362240 393810	SOUTHWORTH HALL SA2	5.0	N	943696 ↗
F	85m W	359420 395420	NEWTON LE WILLOWS TP 10	4.0	N	170700 ↗
34	92m W	359952 395120	PARKSIDE COLLIERY TP 10	-	Y	N/A
35	93m SE	362010 393690	SOUTHWORTH HALL SA7	1.8	N	943701 ↗
36	96m W	359663 394484	PARKSIDE COLLIERY TP 13	-	Y	N/A
37	99m NW	360280 395910	GOLBORNE DALE RD SEWER BH7	-	Y	N/A
38	99m S	360920 394350	NCB A3/10/22	158.5	N	943671 ↗

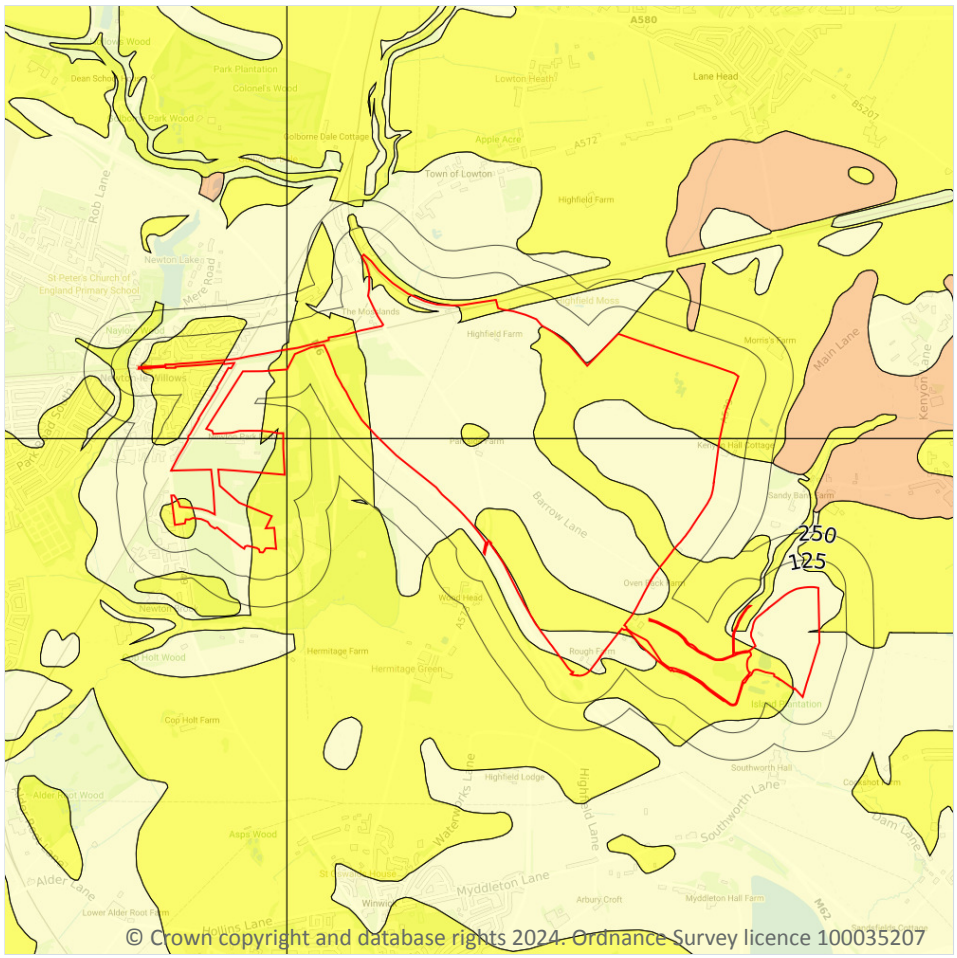
ID	Location	Grid reference	Name	Length	Confidential	Web link
39	100m SE	362170 393810	SOUTHWORTH HALL SA3	5.4	N	943697 ↗
40	102m W	360060 394760	PARKSIDE COLLIERY2	812.9	N	943682 ↗
G	104m W	360025 394688	PARKSIDE COLLIERY TP 22A	-	Y	N/A
G	104m W	360025 394688	PARKSIDE COLLIERY TP 22	-	Y	N/A
41	104m W	359990 394730	PARKSIDE COLLIERY 1 SHAFT	810.77	N	171275 ↗
G	105m W	360026 394690	PARKSIDE COLLIERY 8	-	Y	N/A
42	107m W	359867 395201	PARKSIDE COLLIERY 5	-	Y	N/A
43	107m S	361400 393820	MNC52 M62/CCTV TP11	3.0	N	944956 ↗
44	112m SE	362070 393670	SOUTHWORTH HALL SA8	2.0	N	943702 ↗
45	115m W	359696 395473	NCB A3/1/1	304.98	N	170401 ↗
46	121m S	361280 393800	BACK LANE A3/10/3 (ROUGH FARM)	219.46	N	943655 ↗
47	123m W	360112 394827	PARKSIDE COLLIERY 3	-	Y	N/A
48	124m NW	360220 395820	NEWTON-IN-MAKERFIELD	145.0	N	761919 ↗
49	129m W	360264 394980	PARKSIDE COLLIERY TP 7	-	Y	N/A
50	132m S	361343 393783	MNC52 M62/CCTV BH17	1.1	N	944954 ↗
51	135m SE	362110 393660	SOUTHWORTH HALL SA9	1.8	N	943703 ↗
52	143m NW	360270 395960	GOLBORNE DALE RD SEWER BH6	-	Y	N/A
53	144m W	360138 395153	PARKSIDE COLLIERY TP 8	-	Y	N/A
54	148m SE	361910 393680	SOUTHWORTH HALL QUARRY POND	-1.0	N	945098 ↗
H	150m W	359330 395170	MILL LANE NEWTON/WILLOWS 9	9.14	N	170646 ↗
H	150m W	359330 395170	MILL LANE NEWTON/WILLOWS 12	6.71	N	170649 ↗
H	151m W	359340 395170	MILL LANE NEWTON/WILLOWS 11	3.35	N	170648 ↗
I	153m W	359370 395170	MILL LANE NEWTON/WILLOWS 8	3.05	N	170645 ↗
I	153m W	359386 395171	J.F. & E. CAULFIELD 2	214.88	N	170398 ↗
55	154m W	359400 395050	MILL LANE NEWTON/WILLOWS 1	4.88	N	170638 ↗
56	156m W	360090 394642	PARKSIDE COLLIERY TP 20	-	Y	N/A
I	160m W	359376 395163	J.F. & E. CAULFIELD 1	214.88	N	170397 ↗
J	164m SE	362150 393650	SOUTHWORTH HALL SA10	1.0	N	943704 ↗

ID	Location	Grid reference	Name	Length	Confidential	Web link
57	165m W	360387 394804	PARKSIDE COLLIERY TP 6	-	Y	N/A
58	165m W	360113 394528	PARKSIDE COLLIERY TP 18	-	Y	N/A
59	172m SW	360014 394335	PARKSIDE COLLIERY TP 16	-	Y	N/A
I	174m W	359390 395150	MILL LANE NEWTON-LE-WILLOWS	-1.0	N	170808 ↗
J	176m SE	362170 393650	SOUTHWORTH HALL SA11	1.8	N	943705 ↗
60	180m W	359320 395140	MILL LANE NEWTON/WILLOWS 13	8.23	N	170650 ↗
61	181m W	360164 394988	PARKSIDE COLLIERY TP 25	-	Y	N/A
62	185m W	359400 395120	MILL LANE NEWTON/WILLOWS 10	1.52	N	170647 ↗
63	191m NW	360210 395970	GOLBORNE DALE RD SEWER TP5	-	Y	N/A
64	199m W	359350 395050	MILL LANE NEWTON/WILLOWS 2	6.1	N	170639 ↗
65	203m W	359370 395120	MILL LANE NEWTON/WILLOWS 6	1.52	N	170643 ↗
66	204m SE	362200 393640	SOUTHWORTH HALL SA12	2.3	N	943706 ↗
67	208m W	360289 394839	PARKSIDE COLLIERY 2	-	Y	N/A
K	210m W	359330 395110	MILL LANE NEWTON/WILLOWS 7	3.96	N	170644 ↗
68	211m W	359350 395080	MILL LANE NEWTON/WILLOWS 4	4.57	N	170641 ↗
K	211m W	359340 395110	MILL LANE II TP 6	2.0	N	170478 ↗
K	211m W	359340 395110	MILL LANE II TP 7	1.0	N	170479 ↗
K	211m W	359340 395110	MILL LANE II TP 1	3.0	N	170473 ↗
K	211m W	359340 395110	MILL LANE II TP 12	1.0	N	170484 ↗
K	211m W	359340 395110	MILL LANE II TP 9	1.0	N	170481 ↗
K	211m W	359340 395110	MILL LANE II 10	1.0	N	170500 ↗
K	211m W	359340 395110	MILL LANE II TP 14	1.0	N	170486 ↗
K	211m W	359340 395110	MILL LANE II TP 11	0.0	N	170483 ↗
K	211m W	359340 395110	MILL LANE II TP 2	3.0	N	170474 ↗
K	211m W	359340 395110	MILL LANE II 6	2.0	N	170496 ↗
K	211m W	359340 395110	MILL LANE II 3	2.0	N	170492 ↗
K	211m W	359340 395110	MILL LANE II 5	10.0	N	170495 ↗
K	211m W	359340 395110	MILL LANE II TP 3A	2.0	N	170493 ↗

ID	Location	Grid reference	Name	Length	Confidential	Web link
K	211m W	359340 395110	MILL LANE II TP 4	3.0	N	170476 ↗
K	211m W	359340 395110	MILL LANE II 7	0.0	N	170497 ↗
K	211m W	359340 395110	MILL LANE II TP 3	3.0	N	170475 ↗
K	211m W	359340 395110	MILL LANE II TP 17	1.0	N	170489 ↗
K	211m W	359340 395110	MILL LANE II 1	3.0	N	170490 ↗
K	211m W	359340 395110	MILL LANE II 4	1.0	N	170494 ↗
K	211m W	359340 395110	MILL LANE II TP 16	1.0	N	170488 ↗
K	211m W	359340 395110	MILL LANE II TP 15	2.0	N	170487 ↗
K	211m W	359340 395110	MILL LANE II TP 5	3.0	N	170477 ↗
K	211m W	359340 395110	MILL LANE II TP 13	0.0	N	170485 ↗
K	211m W	359340 395110	MILL LANE II 8	1.0	N	170498 ↗
K	211m W	359340 395110	MILL LANE II 9	2.0	N	170499 ↗
K	211m W	359340 395110	MILL LANE II TP 8	3.0	N	170480 ↗
K	211m W	359340 395110	MILL LANE II TP 10	2.0	N	170482 ↗
K	211m W	359340 395110	MILL LANE II 2	2.0	N	170491 ↗
L	217m SE	362250 393630	SOUTHWORTH HALL SA1	2.0	N	943695 ↗
L	223m SE	362240 393630	SOUTHWORTH HALL (OUTCROP)	43.9	N	943708 ↗
69	228m W	360187 394720	PARKSIDE COLLIERY TP 21	-	Y	N/A
70	238m E	362230 395030	KENYON HALL FARM	50.0	N	20670184 ↗
71	240m W	359310 395080	MILL LANE NEWTON/WILLOWS 5	3.96	N	170642 ↗
72	241m NW	360200 396030	GOLBORNE DALE RD SEWER TP4	-	Y	N/A
73	250m W	359280 395030	MILL LANE NEWTON/WILLOWS 3	7.62	N	170640 ↗

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



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Site Outline

Search buffers in metres (m)

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

17.1 Shrink swell clays

Records within 50m	4

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).

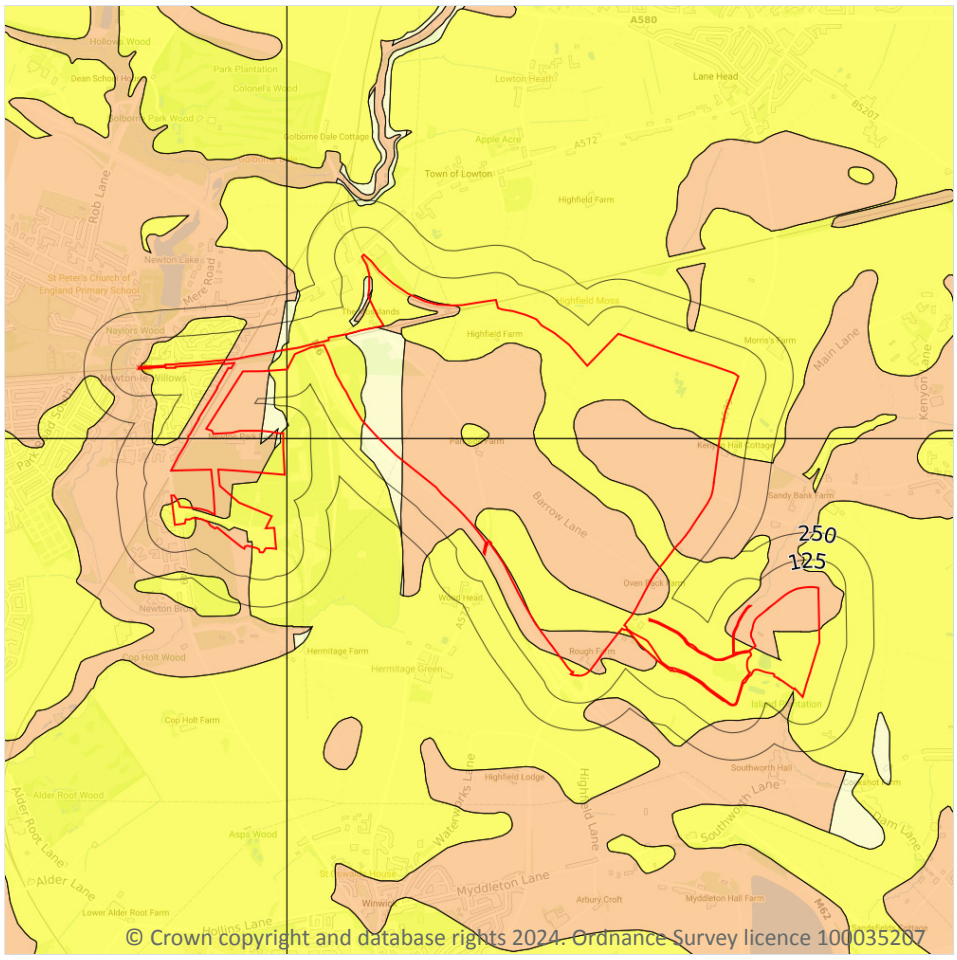
Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 174 >**

Location	Hazard rating	Details
On site	**Negligible**	**Ground conditions predominantly non-plastic.**
On site	**Very low**	**Ground conditions predominantly low plasticity.**
43m W	Very low	Ground conditions predominantly low plasticity.

Location	Hazard rating	Details
45m W	Very low	Ground conditions predominantly low plasticity.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



Site Outline

Search buffers in metres (m)

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

17.2 Running sands

Records within 50m	7

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.

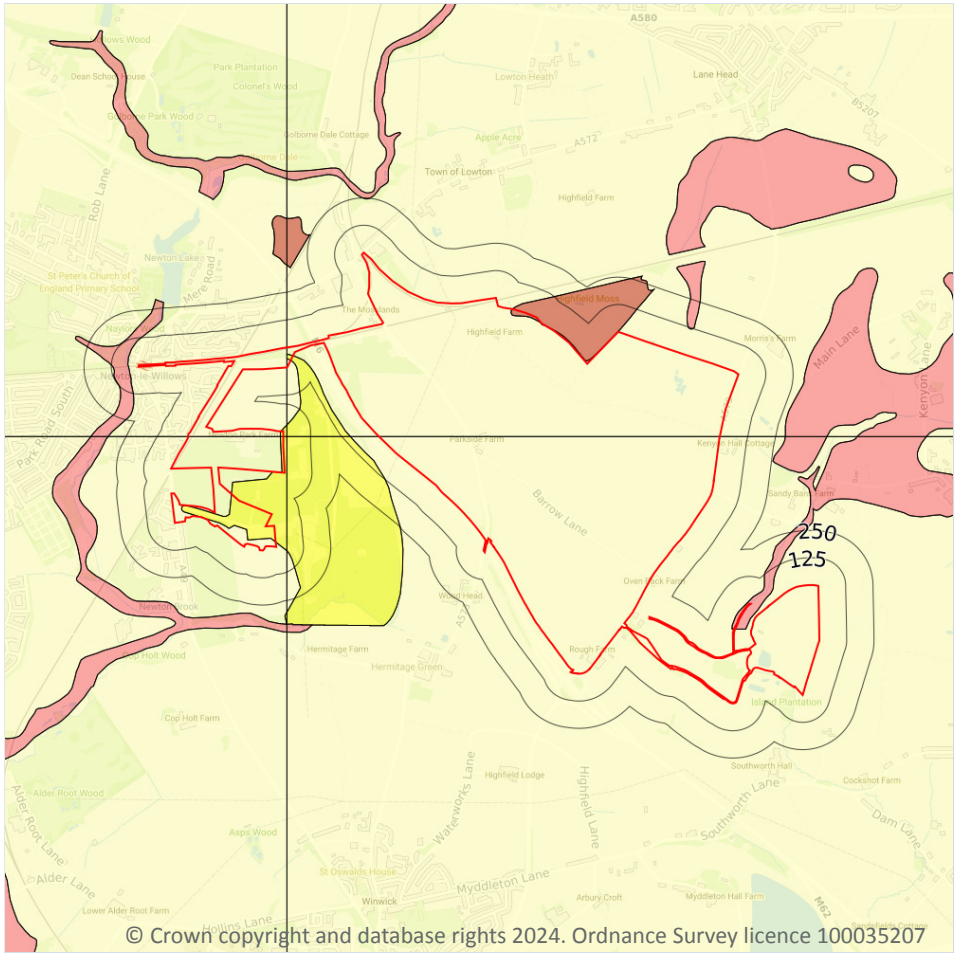
Features are displayed on the Natural ground subsidence - Running sands map on **page 176 >**

Location	Hazard rating	Details
On site	**Negligible**	**Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.**

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.**
On site	**Low**	**Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.**
14m SE	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.
28m NW	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.
33m W	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.
43m W	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



Site Outline

Search buffers in metres (m)

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

17.3 Compressible deposits

Records within 50m	6

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.

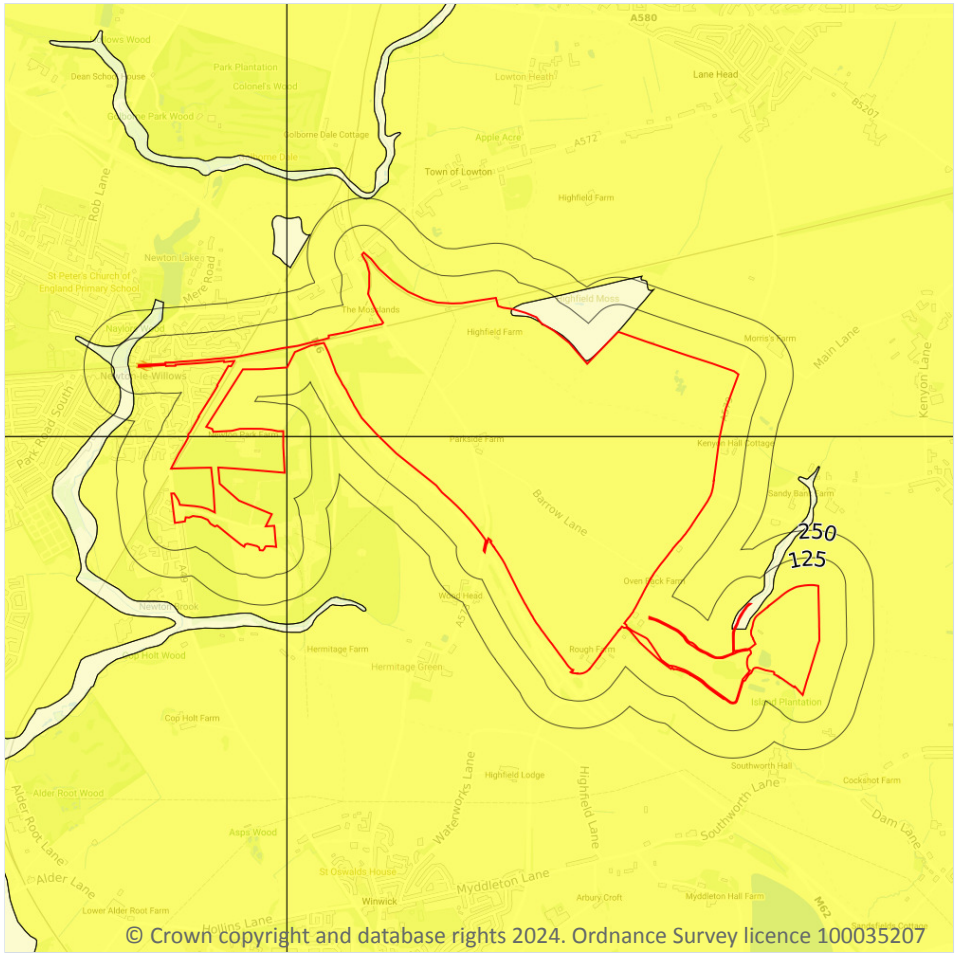
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 178 >**

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
On site	**Moderate**	**Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.**
On site	**High**	**Highly compressible strata present. Significant constraint on land use depending on thickness.**
10m W	Very low	Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses.
45m W	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



Site Outline

Search buffers in metres (m)

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

17.4 Collapsible deposits

Records within 50m	3

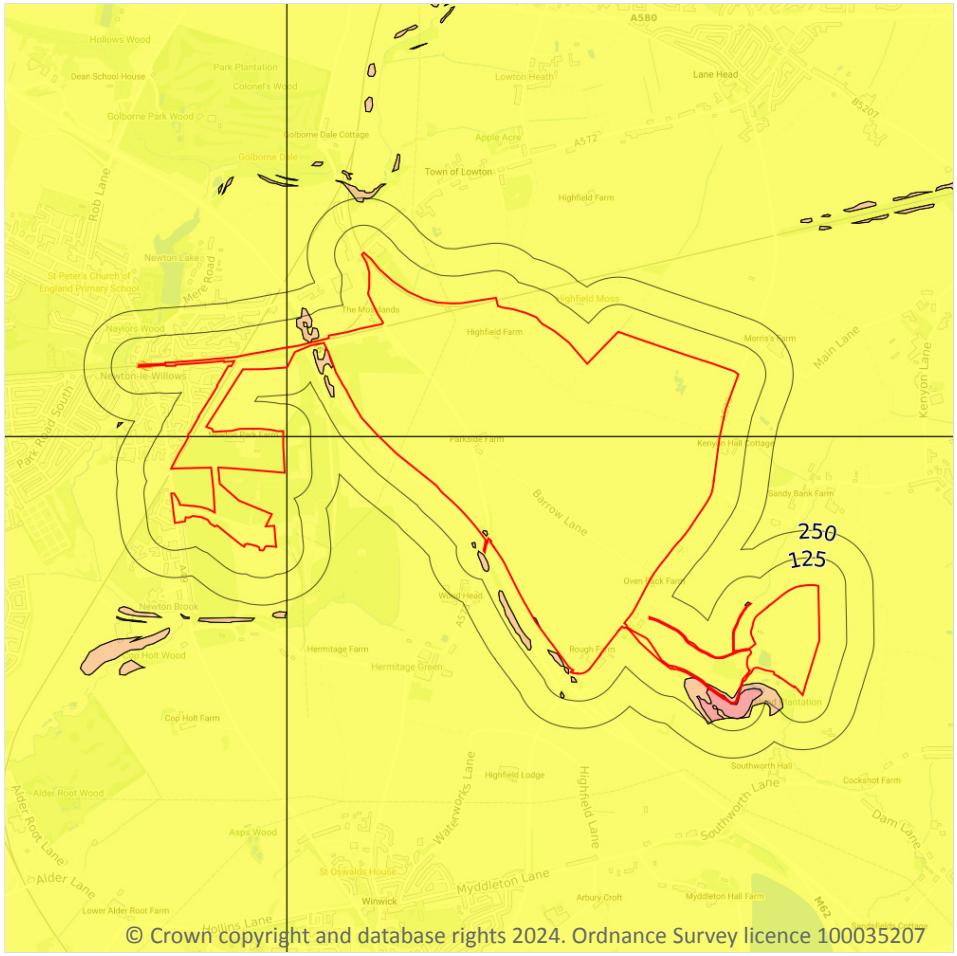
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 180 >**

Location	Hazard rating	Details
On site	**Negligible**	**Deposits with potential to collapse when loaded and saturated are believed not to be present.**
On site	**Very low**	**Deposits with potential to collapse when loaded and saturated are unlikely to be present.**
45m W	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



Site Outline

Search buffers in metres (m)

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

17.5 Landslides

Records within 50m	11

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.

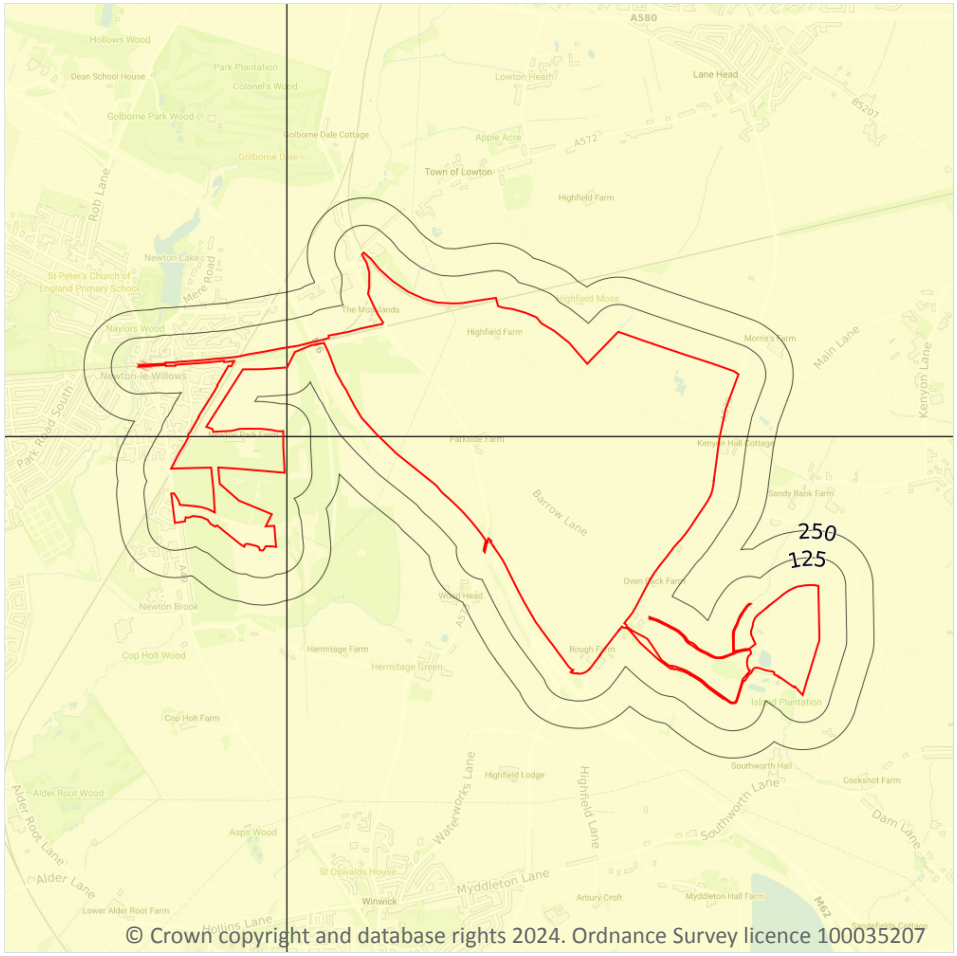
Features are displayed on the Natural ground subsidence - Landslides map on **page 182 >**

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.**

Location	Hazard rating	Details
On site	**Low**	**Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.**
On site	**Moderate**	**Slope instability problems are probably present or have occurred in the past. Land use should consider specifically the stability of the site.**
0m NW	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
7m S	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
9m S	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
13m SW	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
18m S	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
39m SW	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
41m W	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
48m SE	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Ground dissolution of soluble rocks



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Site Outline

Search buffers in metres (m)

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

17.6 Ground dissolution of soluble rocks

Records within 50m	1

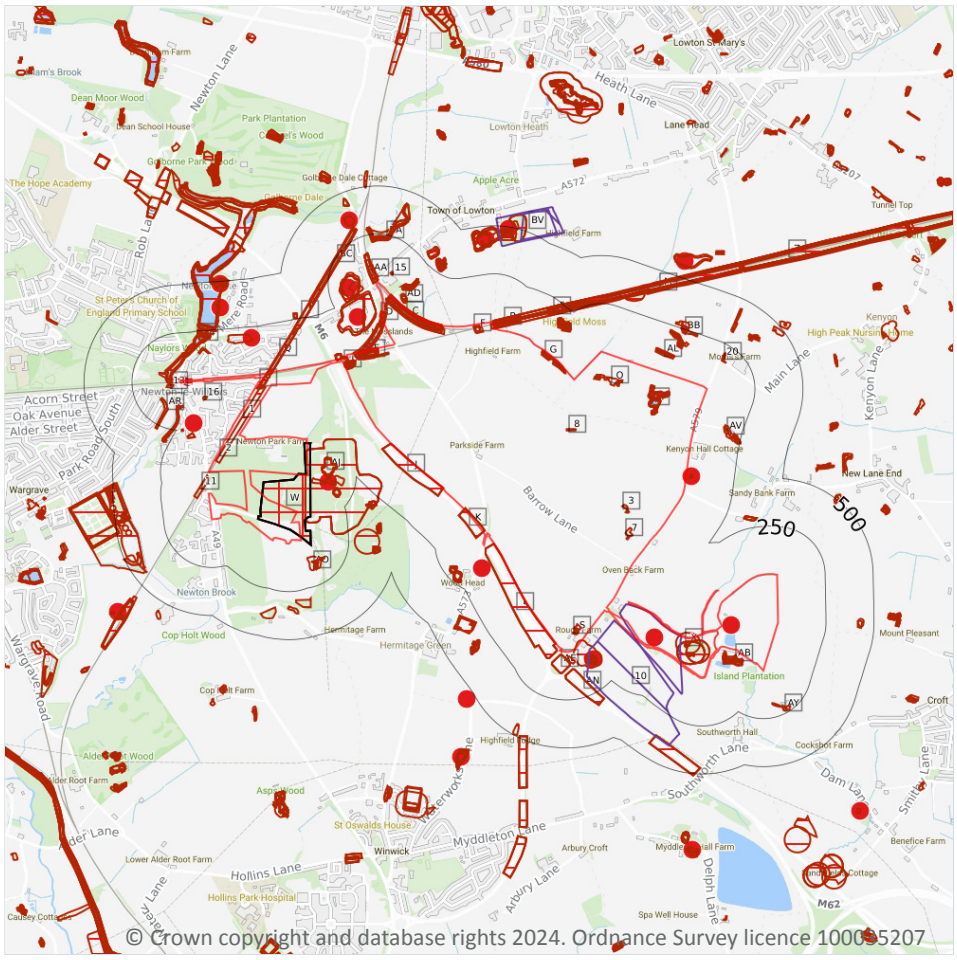
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 184 >**

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

This data is sourced from the British Geological Survey.

18 Mining and ground workings



18.1 BritPits

Records within 500m	17

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 186 >**

ID	Location	Details	Description
A	**On site**	**Name: Southworth Quarry** **Address: Winwick, WARRINGTON, Cheshire** **Commodity: Sandstone** **Status: Active**	**Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site** **Status description: Site which is actively extracting mineral products, or in the case of wharfs and rail depots, is actively handing minerals**

ID	Location	Details	Description
A	**On site**	**Name: Southworth Quarry** **Address: Winwick, WARRINGTON, Cheshire** **Commodity: Secondary** **Status: Active**	**Type: Recycled material, construction and demolition materials recovered for use as secondary aggregates** **Status description: Site which is actively extracting mineral products, or in the case of wharfs and rail depots, is actively handing minerals**
AC	27m E	Name: Kenyon Hall Sand Pit Address: Croft, WARRINGTON, Cheshire 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
Y	45m SE	Name: Southworth Address: Winwick, WARRINGTON, Cheshire Commodity: Sand & Gravel 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
V	104m S	Name: Rough Farm Address: Croft, WARRINGTON, Cheshire Commodity: Sandstone 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
U	111m W	Name: Parkside Colliery Address: Parkside, NEWTON LE WILLOWS, Lancashire Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) 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
17	118m S	Name: Woods Head Delph Address: Winwick, WARRINGTON, Cheshire Commodity: Sandstone 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

ID	Location	Details	Description
AG	126m NW	Name: Newton Park Gravel Pit Address: NEWTON LE WILLOWS, Merseyside Commodity: Sand & Gravel 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
AK	144m NW	Name: Newton Park Gravel Pit Address: NEWTON LE WILLOWS, Merseyside Commodity: Sand & Gravel 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
AW	158m SW	Name: Woods Head Delph Address: Winwick, WARRINGTON, Cheshire Commodity: Sandstone 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
22	180m W	Name: Bunkers Hill Address: Newton Le Willows, ST HELENS, Merseyside Commodity: Sandstone 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
23	194m NW	Name: Newton le Willows Address: Newton Le Willows, ST HELENS, Merseyside Commodity: Sandstone 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
BM	352m NW	Name: Newton Moss Gravel Pit Address: Newton Le Willows, ST HELENS, Merseyside Commodity: Sand & Gravel 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

ID	Location	Details	Description
BO	363m NW	Name: Newton le Willows Address: Newton Le Willows, ST HELENS, Merseyside Commodity: Sandstone 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
BS	430m N	Name: Lowton Sand Pit Address: Golborne, WIGAN, Lancashire 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
BE	487m NW	Name: Newton le Willows Address: Newton Le Willows, ST HELENS, Merseyside Commodity: Sandstone 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
BZ	489m N	Name: Newton Lowton Sand Pit Address: Golborne, WIGAN, Lancashire Commodity: Sand & Gravel Status: Dormant	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at the date of entry, is defined under the Environment Act 1995 as a mineral site where no mineral development has taken place to any substantial extent in, on, or under the site at any time in the period 22nd February 1982 and 6 June 1995.

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m **326**

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 186 >**

ID	Location	Land Use	Year of mapping	Mapping scale
1	**On site**	**Cuttings**	**1891**	**1:10560**
2	**On site**	**Cuttings**	**1891**	**1:10560**
3	**On site**	**Ponds**	**1891**	**1:10560**

ID	Location	Land Use	Year of mapping	Mapping scale
4	On site	Unspecified Pits	1906	1:10560
5	On site	Cuttings	1851	1:10560
6	On site	Pond	1851	1:10560
7	On site	Ponds	1851	1:10560
8	On site	Pond	1851	1:10560
9	On site	Cuttings	1925	1:10560
B	On site	Cuttings	1938	1:10560
B	On site	Cuttings	1906	1:10560
B	On site	Cuttings	1955	1:10560
B	On site	Cuttings	1947	1:10560
B	On site	Cuttings	1925	1:10560
C	On site	Cuttings	1938	1:10560
C	On site	Cuttings	1906	1:10560
C	On site	Cuttings	1992	1:10000
C	On site	Cuttings	1972	1:10000
C	On site	Cuttings	1984	1:10000
C	On site	Cuttings	1965	1:10560
C	On site	Cuttings	1892	1:10560
C	On site	Cuttings	1955	1:10560
C	On site	Cuttings	1947	1:10560
C	On site	Cuttings	1925	1:10560
D	On site	Cuttings	1938	1:10560
D	On site	Cuttings	1906	1:10560
D	On site	Cuttings	1892	1:10560
D	On site	Cuttings	1955	1:10560
D	On site	Cuttings	1947	1:10560
E	On site	Cuttings	1938	1:10560
E	On site	Cuttings	1906	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
E	On site	Cuttings	1992	1:10000
E	On site	Cuttings	1972	1:10000
E	On site	Cuttings	1984	1:10000
E	On site	Cuttings	1965	1:10560
E	On site	Cuttings	1892	1:10560
E	On site	Cuttings	1938	1:10560
E	On site	Cuttings	1926	1:10560
E	On site	Cuttings	1891	1:10560
E	On site	Cuttings	1955	1:10560
E	On site	Cuttings	1947	1:10560
E	On site	Cuttings	1947	1:10560
E	On site	Cuttings	1947	1:10560
E	On site	Cuttings	1925	1:10560
F	On site	Cuttings	1938	1:10560
F	On site	Cuttings	1892	1:10560
F	On site	Cuttings	1947	1:10560
F	On site	Cuttings	1925	1:10560
G	On site	Pond	1938	1:10560
G	On site	Pond	1938	1:10560
G	On site	Pond	1906	1:10560
G	On site	Pond	1906	1:10560
G	On site	Pond	1992	1:10000
G	On site	Pond	1972	1:10000
G	On site	Pond	1984	1:10000
G	On site	Pond	1965	1:10560
G	On site	Pond	1892	1:10560
G	On site	Pond	1892	1:10560
G	On site	Pond	1851	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
H	On site	Unspecified Pits	1938	1:10560
H	On site	Unspecified Pits	1926	1:10560
H	On site	Unspecified Pits	1906	1:10560
H	On site	Unspecified Pits	1891	1:10560
H	On site	Unspecified Pits	1992	1:10000
H	On site	Unspecified Pits	1972	1:10000
H	On site	Unspecified Pits	1984	1:10000
H	On site	Unspecified Pits	1965	1:10560
H	On site	Unspecified Pits	1955	1:10560
H	On site	Unspecified Pits	1926	1:10560
I	On site	Pond	1992	1:10000
I	On site	Pond	1972	1:10000
I	On site	Pond	1984	1:10000
I	On site	Pond	1965	1:10560
I	On site	Pond	1938	1:10560
I	On site	Pond	1926	1:10560
I	On site	Pond	1906	1:10560
I	On site	Pond	1891	1:10560
I	On site	Pond	1955	1:10560
I	On site	Pond	1947	1:10560
I	On site	Pond	1851	1:10560
J	On site	Cuttings	1967	1:10560
J	On site	Cuttings	1987	1:10000
J	On site	Cuttings	1975	1:10000
K	On site	Cuttings	1967	1:10560
K	On site	Cuttings	1987	1:10000
K	On site	Cuttings	1975	1:10000
L	On site	Cuttings	1967	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
L	On site	Cuttings	1987	1:10000
L	On site	Cuttings	1975	1:10000
M	On site	Cuttings	1892	1:10560
N	On site	Cuttings	1892	1:10560
N	On site	Cuttings	1955	1:10560
N	On site	Cuttings	1925	1:10560
O	On site	Pond	1892	1:10560
O	On site	Unspecified Pits	1906	1:10560
P	On site	Cuttings	1938	1:10560
P	On site	Cuttings	1926	1:10560
P	On site	Cuttings	1906	1:10560
P	On site	Cuttings	1891	1:10560
P	On site	Cuttings	1955	1:10560
Q	On site	Cuttings	1938	1:10560
Q	On site	Cuttings	1926	1:10560
Q	On site	Cuttings	1906	1:10560
Q	On site	Cuttings	1891	1:10560
R	On site	Pond	1938	1:10560
R	On site	Pond	1926	1:10560
R	On site	Pond	1906	1:10560
R	On site	Pond	1891	1:10560
R	On site	Pond	1947	1:10560
R	On site	Ponds	1851	1:10560
S	On site	Pond	1891	1:10560
S	On site	Pond	1851	1:10560
T	On site	Cuttings	1947	1:10560
U	On site	Colliery	1967	1:10560
U	On site	Colliery	1987	1:10000

ID	Location	Land Use	Year of mapping	Mapping scale
U	**On site**	**Colliery**	**1975**	**1:10000**
V	**On site**	**Unspecified Workings**	**1967**	**1:10560**
W	**On site**	**Colliery**	**1976**	**1:10000**
W	**On site**	**Colliery**	**1989**	**1:10000**
X	**On site**	**Unspecified Pits**	**1955**	**1:10560**
Z	1m N	Cuttings	1992	1:10000
Z	1m N	Cuttings	1972	1:10000
Z	1m N	Cuttings	1984	1:10000
Z	1m N	Cuttings	1965	1:10560
Q	5m W	Cuttings	1955	1:10560
AA	6m NW	Cuttings	1892	1:10560
AA	9m NW	Cuttings	1938	1:10560
AA	9m NW	Cuttings	1906	1:10560
X	9m SE	Unspecified Pits	1967	1:10560
X	9m SE	Unspecified Pits	1987	1:10000
X	9m SE	Unspecified Pits	1975	1:10000
X	9m SE	Unspecified Pits	1955	1:10560
N	9m NW	Cuttings	1938	1:10560
N	9m NW	Cuttings	1906	1:10560
N	9m NW	Cuttings	1947	1:10560
X	12m SE	Unspecified Pits	1906	1:10560
X	12m SE	Unspecified Pits	1891	1:10560
N	15m NW	Cuttings	1992	1:10000
N	15m NW	Cuttings	1972	1:10000
N	15m NW	Cuttings	1984	1:10000
N	15m NW	Cuttings	1965	1:10560
AB	19m SE	Ponds	1955	1:10560
AC	19m E	Sand Pit	1851	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
AD	20m NW	Pond	1938	1:10560
AD	20m NW	Pond	1906	1:10560
11	20m W	Cuttings	1891	1:10560
AA	20m NW	Cuttings	1955	1:10560
AE	20m S	Cuttings	1967	1:10560
AE	20m S	Cuttings	1987	1:10000
AE	20m S	Cuttings	1975	1:10000
AD	20m NW	Pond	1947	1:10560
AA	21m NW	Cuttings	1925	1:10560
12	24m S	Pond	1851	1:10560
AD	25m NW	Pond	1955	1:10560
AA	26m NW	Cuttings	1947	1:10560
AA	26m NW	Cuttings	1992	1:10000
AA	26m NW	Cuttings	1972	1:10000
AA	26m NW	Cuttings	1984	1:10000
AA	26m NW	Cuttings	1965	1:10560
AB	28m SE	Unspecified Ground Workings	1851	1:10560
U	29m W	Ponds	1849	1:10560
AB	29m SE	Ponds	1938	1:10560
AB	29m SE	Ponds	1926	1:10560
AB	29m SE	Ponds	1906	1:10560
X	31m SE	Unspecified Pits	1938	1:10560
X	31m SE	Unspecified Pits	1926	1:10560
AF	32m NW	Unspecified Pit	1947	1:10560
AF	32m NW	Unspecified Pit	1947	1:10560
X	32m SE	Unspecified Pits	1926	1:10560
AB	35m SE	Ponds	1891	1:10560
AG	35m NW	Unspecified Pit	1955	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
13	37m W	Lake	1947	1:10560
AH	40m W	Water Body	1891	1:10560
AH	41m W	Pond	1955	1:10560
14	45m W	Lake	1947	1:10560
AH	46m W	Water Body	1938	1:10560
AH	46m W	Water Body	1906	1:10560
X	49m SE	Unspecified Pits	1926	1:10560
X	49m SE	Unspecified Pits	1938	1:10560
X	49m SE	Unspecified Pits	1926	1:10560
V	66m S	Pond	1938	1:10560
AI	66m NW	Unspecified Ground Workings	1938	1:10560
AI	67m NW	Unspecified Ground Workings	1925	1:10560
AI	70m NW	Unspecified Ground Workings	1947	1:10560
AI	70m NW	Unspecified Ground Workings	1947	1:10560
AJ	71m W	Pond	1955	1:10560
AJ	72m W	Pond	1938	1:10560
AJ	73m W	Pond	1938	1:10560
AI	73m NW	Unspecified Ground Workings	1955	1:10560
AJ	73m W	Pond	1947	1:10560
AJ	73m W	Pond	1926	1:10560
AJ	73m W	Pond	1906	1:10560
AJ	73m W	Pond	1891	1:10560
AK	73m NW	Sand Pit	1938	1:10560
15	76m NW	Gravel Pit	1851	1:10560
16	78m W	Unspecified Heap	1965	1:10560
AK	83m NW	Old Sand Pit	1947	1:10560
AI	84m NW	Unspecified Ground Workings	1992	1:10000
AI	84m NW	Unspecified Ground Workings	1972	1:10000

ID	Location	Land Use	Year of mapping	Mapping scale
AI	84m NW	Unspecified Ground Workings	1984	1:10000
AI	84m NW	Unspecified Ground Workings	1965	1:10560
V	85m S	Unspecified Pit	1955	1:10560
AL	85m NE	Pond	1892	1:10560
AK	86m NW	Old Sand Pit	1955	1:10560
AA	87m NW	Cuttings	1947	1:10560
AG	87m NW	Unspecified Pit	1947	1:10560
AG	87m NW	Unspecified Pit	1947	1:10560
AM	88m W	Pond	1965	1:10560
AM	88m W	Pond	1955	1:10560
AK	88m NW	Sand Pit	1906	1:10560
V	88m S	Unspecified Pit	1926	1:10560
V	89m S	Unspecified Pit	1938	1:10560
V	89m S	Unspecified Pit	1926	1:10560
V	89m S	Unspecified Pit	1906	1:10560
V	89m S	Unspecified Pit	1891	1:10560
AK	89m NW	Sand Pit	1926	1:10560
AN	93m S	Cuttings	1967	1:10560
AN	93m S	Cuttings	1987	1:10000
AN	93m S	Cuttings	1975	1:10000
V	94m S	Sandstone Quarry	1851	1:10560
AM	94m W	Pond	1947	1:10560
AM	94m W	Pond	1926	1:10560
AM	94m W	Pond	1906	1:10560
AM	94m W	Pond	1891	1:10560
AL	94m NE	Pond	1851	1:10560
AL	94m NE	Pond	1906	1:10560
AO	96m SW	Ponds	1849	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
AK	98m NW	Unspecified Pit	1891	1:10560
AP	119m W	Unspecified Ground Workings	1955	1:10560
AQ	123m W	Water Body	1891	1:10560
AR	125m W	Unspecified Ground Workings	1981	1:10000
AR	125m W	Unspecified Ground Workings	1994	1:10000
AP	126m W	Unspecified Ground Workings	1938	1:10560
AQ	126m W	Water Body	1938	1:10560
AQ	126m W	Water Body	1906	1:10560
AO	130m SW	Pond	1955	1:10560
AO	131m SW	Ponds	1891	1:10560
18	131m W	Unspecified Ground Workings	1955	1:10560
AS	138m N	Pond	1892	1:10560
AO	139m SW	Pond	1947	1:10560
AO	139m SW	Pond	1926	1:10560
AO	139m SW	Pond	1926	1:10560
AO	139m SW	Pond	1906	1:10560
AO	139m SW	Pond	1906	1:10560
AQ	140m W	Pond	1955	1:10560
AS	146m N	Pond	1851	1:10560
AS	146m N	Pond	1906	1:10560
AS	147m N	Pond	1938	1:10560
AS	148m N	Pond	1925	1:10560
AS	149m N	Pond	1947	1:10560
AT	149m NE	Ponds	1892	1:10560
AU	150m W	Reservoir	1926	1:10560
AU	150m W	Reservoir	1938	1:10560
U	151m W	Pond	1955	1:10560
AV	153m E	Ponds	1891	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
AV	154m E	Pond	1851	1:10560
AS	155m N	Pond	1992	1:10000
AS	155m N	Pond	1972	1:10000
AS	155m N	Pond	1984	1:10000
AS	155m N	Pond	1965	1:10560
AS	155m N	Pond	1955	1:10560
U	156m W	Pond	1938	1:10560
U	157m W	Pond	1947	1:10560
U	157m W	Pond	1926	1:10560
U	157m W	Pond	1906	1:10560
U	157m W	Pond	1891	1:10560
AT	158m NE	Ponds	1938	1:10560
AT	158m NE	Ponds	1906	1:10560
AT	159m NE	Ponds	1947	1:10560
Z	161m N	Cuttings	1925	1:10560
AX	162m N	Cuttings	1938	1:10560
AX	162m N	Cuttings	1906	1:10560
19	164m N	Cuttings	1947	1:10560
20	165m NE	Pond	1851	1:10560
AT	166m NE	Ponds	1955	1:10560
Z	168m N	Cuttings	1955	1:10560
21	171m W	Sandstone Quarry	1851	1:10560
AY	175m SE	Ponds	1851	1:10560
AW	181m SW	Ponds	1967	1:10560
AW	181m SW	Ponds	1987	1:10000
AW	181m SW	Ponds	1975	1:10000
AW	182m SW	Ponds	1955	1:10560
AQ	187m W	Refuse Heap	1965	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
AW	187m SW	Ponds	1851	1:10560
AW	188m SW	Ponds	1926	1:10560
AT	189m NE	Ponds	1892	1:10560
AW	189m SW	Ponds	1938	1:10560
AW	189m SW	Ponds	1926	1:10560
AW	189m SW	Ponds	1906	1:10560
AW	189m SW	Ponds	1891	1:10560
AZ	197m NW	Cuttings	1938	1:10560
AZ	197m NW	Cuttings	1926	1:10560
AZ	197m NW	Cuttings	1906	1:10560
AZ	197m NW	Cuttings	1891	1:10560
AV	204m E	Pond	1851	1:10560
AT	204m NE	Pond	1851	1:10560
AY	209m SE	Ponds	1955	1:10560
BA	210m NW	Unspecified Pit	1938	1:10560
BA	211m NW	Unspecified Ground Workings	1925	1:10560
AQ	212m W	Pond	1973	1:10000
T	214m NW	Cuttings	1955	1:10560
AV	215m E	Pond	1992	1:10000
AV	215m E	Pond	1972	1:10000
AV	215m E	Pond	1984	1:10000
AV	215m E	Pond	1965	1:10560
AQ	215m W	Pond	1981	1:10000
AQ	215m W	Pond	1994	1:10000
24	218m W	Sandstone Quarry	1849	1:10560
BA	221m NW	Unspecified Ground Workings	1992	1:10000
BA	221m NW	Unspecified Ground Workings	1972	1:10000
BA	221m NW	Unspecified Ground Workings	1984	1:10000

ID	Location	Land Use	Year of mapping	Mapping scale
BA	221m NW	Unspecified Ground Workings	1965	1:10560
BB	227m NE	Ponds	1892	1:10560
BC	230m NW	Cuttings	1992	1:10000
BC	230m NW	Cuttings	1972	1:10000
BC	230m NW	Cuttings	1984	1:10000
BC	230m NW	Cuttings	1965	1:10560
BB	233m NE	Ponds	1851	1:10560
BC	234m NW	Cuttings	1955	1:10560
BB	236m NE	Pond	1906	1:10560
BB	240m NE	Pond	1965	1:10560
BD	242m NW	Water Body	1938	1:10560
BD	242m NW	Water Body	1926	1:10560
BD	242m NW	Water Body	1906	1:10560
BD	242m NW	Lake	1891	1:10560
BD	243m NW	Lake	1947	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records within 1000m **2**

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

Features are displayed on the Mining and ground workings map on **page 186 >**

ID	Location	Land Use	Year of mapping	Mapping scale
W	**On site**	**Colliery**	**1976**	**1:10000**
W	**On site**	**Colliery**	**1989**	**1:10000**

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground mining extents

Records within 500m	0

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

This data is sourced from Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m	4

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 186 >**

ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
Y	**On site**	**Waterworks lane**	**Sandstone**	**Surface mineral working**	**Valid**	**6/6/69**
10	5m SE	Waterworks lane	Sand	Surface mineral working	Valid	3/9/68
BV	397m N	Highfield	Sand and gravel	Surface mineral working	Valid	2/10/47
BV	448m N	Highfield	Sand and gravel	Surface mineral working	Valid	2/10/47

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m	0

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

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site	1

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

Location	Details
On site	**In addition to being located inside an area where The Coal Authority have information on coal mining activities, Johnson Poole & Bloomer (JPB) have information such as mining plans and maps held within their archive of mining activities that have occurred within 1km of this property which may supplement this information. Please note, the plans held by JPB may also relate to non-mining records. Further details and a quote for services (if appropriate) can be obtained by emailing this report to enquiries.gs@jpb.co.uk ↗.**

This data is sourced from Johnson Poole and Bloomer.

18.8 The Coal Authority non-coal mining

Records within 500m	0

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

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m	0

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

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m	0

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

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m	0

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

This data is sourced from Groundsure.

18.12 Coal mining

Records on site	1

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

Location	Details
On site	**The site is located within a coal mining area as defined by the Coal Authority. A Consultants Coal Mining Report is recommended to further assess coal mining issues at the site. This can be ordered directly through Groundsure or your preferred search provider.**

This data is sourced from the Coal Authority.

18.13 Brine areas

Records on site	0

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

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

18.14 Gypsum areas

Records on site	0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.15 Tin mining

Records on site	0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

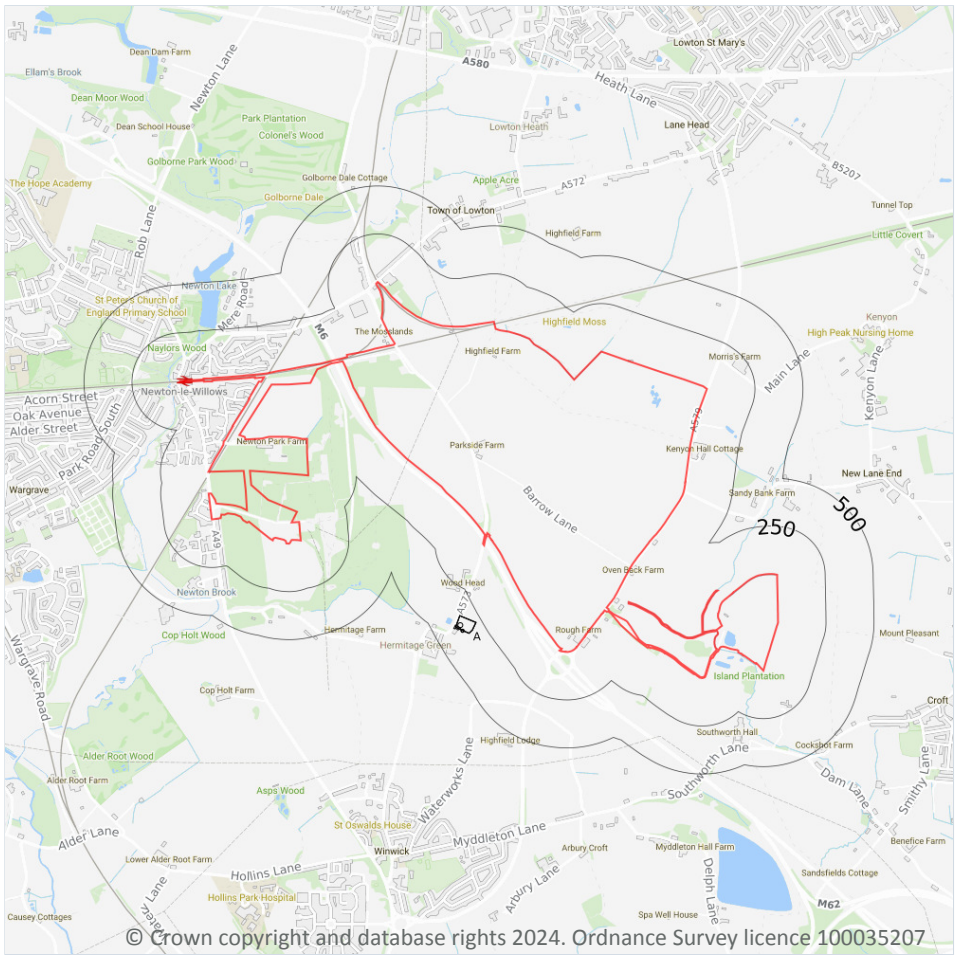
18.16 Clay mining

Records on site	0

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

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

19 Ground cavities and sinkholes



19.1 Natural cavities

Records within 500m	0

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

This data is sourced from Stantec UK Ltd.

19.2 Mining cavities

Records within 1000m	0

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

This data is sourced from Stantec UK Ltd.

19.3 Reported recent incidents

Records within 500m	0

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

This data is sourced from Groundsure.

19.4 Historical incidents

Records within 500m	7

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.

Features are displayed on the Ground cavities and sinkholes map on **page 206 >**

ID	Location	Type	Date of mapping
A	280m S	Unspecified Hole	1938
A	280m S	Unspecified Hole	1926
A	280m S	Unspecified Hole	1906
A	344m S	Hole	1961

ID	Location	Type	Date of mapping
A	354m S	Hole	1893
A	354m S	Hole	1928
A	363m S	Unspecified Hole	1955

This data is sourced from Groundsure.

19.5 National karst database

Records within 500m	0

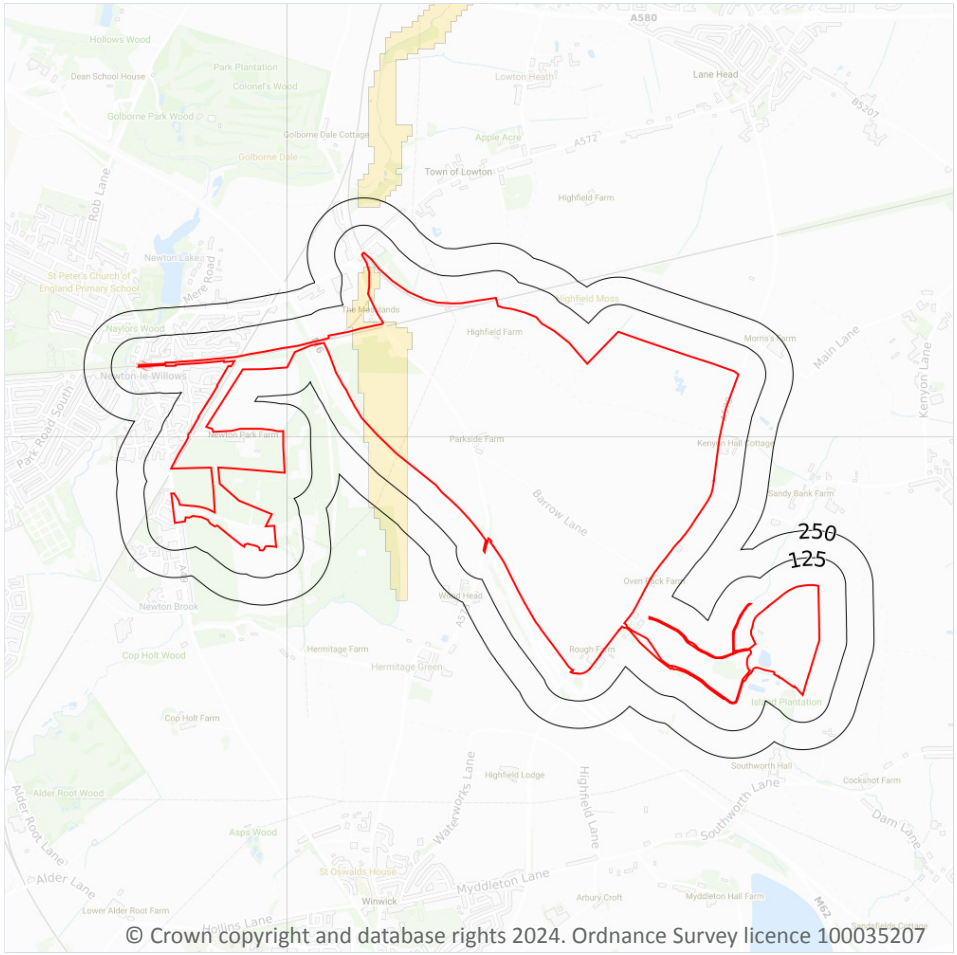
This is a comprehensive database of national karst information gathered from a wide range of sources. BGS have collected data on five main types of karst feature: Sinkholes, stream links, caves, springs, and incidences of associated damage to buildings, roads, bridges and other engineered works.

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

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

This data is sourced from the British Geological Survey.

20 Radon



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Site Outline

Search buffers in metres (m)

- Greater than 30%
- Between 10% and 30%
- Between 5% and 10%
- Between 3% and 5%
- Between 1% and 3%
- Less than 1%

20.1 Radon

Records on site	2

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 209 >**

Location	Estimated properties affected	Radon Protection Measures required
On site	**Between 1% and 3%**	**None**

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

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

21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m	112

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**15 - 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**
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**
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**
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**

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
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
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
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	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	60 - 80 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	60 - 80 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	60 - 80 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg

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

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

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 mg/kg**
0m SE	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
8m E	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
8m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
10m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
10m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
14m SE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
15m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
17m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
17m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
19m E	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
21m NE	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	60 - 80 mg/kg
25m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
25m E	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
30m W	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
30m NW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
31m NE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
35m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
35m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
36m SE	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
37m NW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
40m NE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
44m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
44m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
46m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
49m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
49m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m	**0**

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

This data is sourced from the British Geological Survey.

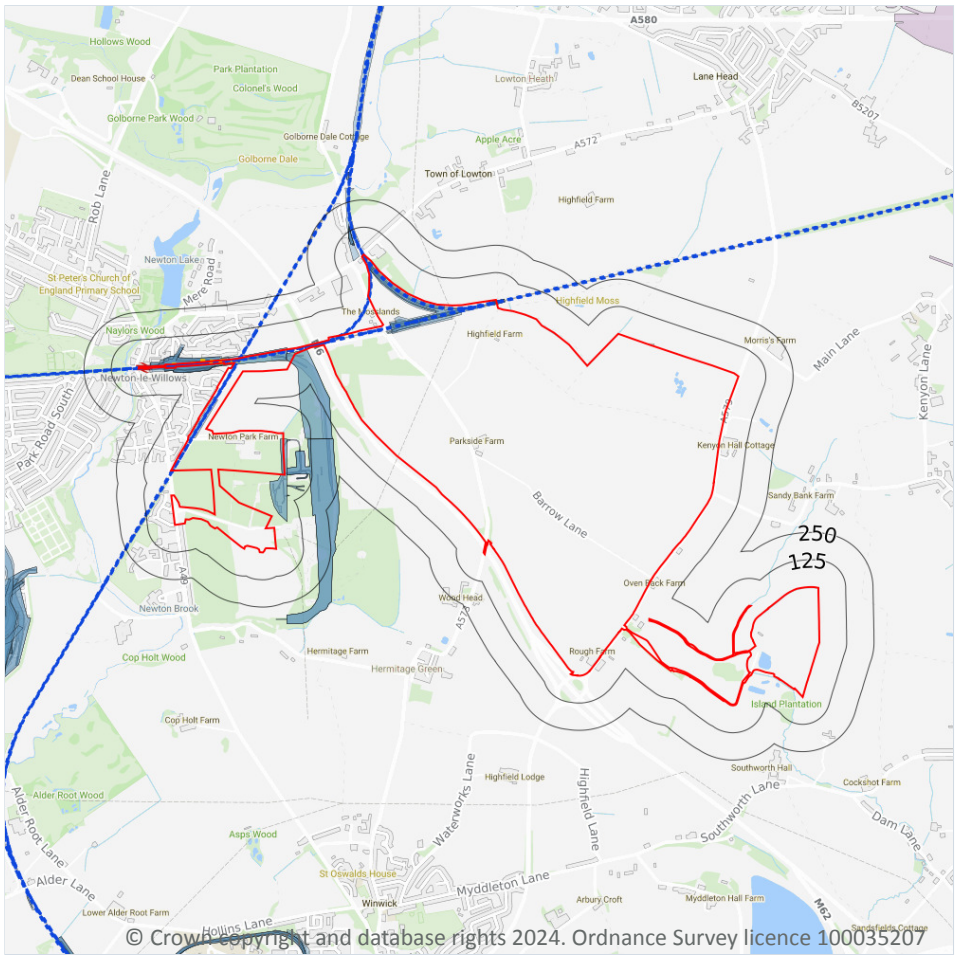
21.3 BGS Measured Urban Soil Chemistry

Records within 50m	**0**

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

This data is sourced from the British Geological Survey.

22 Railway infrastructure and projects



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- Site Outline

Search buffers in metres (m)

- Crossrail 1 Stations
- Crossrail 1 Route
- Crossrail 2 Stations
- Crossrail 2 Route
- Crossrail 2 Worksites
- Crossrail 2 Safeguarding
- Crossrail 2 Headhouses
- Railway stations
- Active railways
- Active tunnels
- Abandoned railways
- Historic railways
- Historic tunnels
- Underground stations
- Underground Lines
- Royal Mail tunnels
- HS2 optimised route
- HS2 Stations
- HS2 Depots
- HS2 Surface Safeguarding
- HS2 Subsurface Safeguarding

22.1 Underground railways (London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m	0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m	68

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

Features are displayed on the Railway infrastructure and projects map on **page 218 >**

Location	Land Use	Year of mapping	Mapping scale
On site	**Railway Sidings**	**1893**	**2500**
On site	**Railway Sidings**	**1907**	**2500**
On site	**Railway Sidings**	**1960**	**2500**
On site	**Railway Sidings**	**1928**	**2500**
On site	**Railway Sidings**	**1959**	**2500**
On site	**Railway Sidings**	**1996**	**1250**
On site	**Railway Sidings**	**1972**	**1250**
On site	**Railway Sidings**	**1966**	**2500**
On site	**Railway Sidings**	**1988**	**2500**
On site	**Railway Sidings**	**1984**	**1250**
On site	**Railway Sidings**	**1990**	**1250**
On site	**Railway Sidings**	**1995**	**1250**
On site	**Railway Sidings**	**1999**	**1250**
On site	**Mineral Railway Sidings**	**1996**	**1250**
On site	**Mineral Railway Sidings**	**1995**	**1250**
On site	**Mineral Railway Sidings**	**1999**	**1250**
On site	**Railway Sidings**	**1892**	**10560**

Location	Land Use	Year of mapping	Mapping scale
On site	**Railway Sidings**	**1938**	**10560**
On site	**Railway Sidings**	**1926**	**10560**
On site	**Railway Sidings**	**1906**	**10560**
On site	**Railway Sidings**	**1891**	**10560**
On site	**Railway Sidings**	**1965**	**10560**
On site	**Railway Sidings**	**1973**	**10000**
On site	**Railway Sidings**	**1981**	**10000**
On site	**Railway Sidings**	**1994**	**10000**
On site	**Railway Sidings**	**1976**	**10000**
On site	**Railway Sidings**	**1989**	**10000**
On site	**Railway Sidings**	**1992**	**10000**
On site	**Railway Sidings**	**1972**	**10000**
On site	**Railway Sidings**	**1984**	**10000**
On site	**Railway Sidings**	**1947**	**10560**
On site	**Railway Sidings**	**1925**	**10560**
On site	**Railway Sidings**	**1955**	**10560**
3m W	Railway Sidings	1928	2500
3m W	Railway Sidings	1893	2500
3m W	Railway Sidings	1907	2500
6m W	Mineral Railway Sidings	1972	1250
6m W	Railway Sidings	1996	1250
6m W	Railway Sidings	1995	1250
6m W	Railway Sidings	1999	1250
10m W	Railway Sidings	1993	2500
10m W	Railway Sidings	1964	2500
11m W	Railway Sidings	1986	2500
11m W	Railway Sidings	1967	10560
11m W	Railway Sidings	1987	10000

Location	Land Use	Year of mapping	Mapping scale
11m W	Railway Sidings	1975	10000
11m W	Railway Sidings	1991	2500
12m NW	Railway Sidings	1906	10560
17m W	Railway Sidings	1991	2500
18m W	Railway Sidings	1972	1250
31m W	Railway Sidings	1961	2500
48m W	Railway Sidings	1991	2500
50m W	Railway Sidings	1993	2500
60m NW	Railway Sidings	1893	2500
60m NW	Railway Sidings	1907	2500
60m NW	Railway Sidings	1928	2500
62m NW	Railway Sidings	1955	10560
64m NW	Railway Sidings	1925	10560
67m NW	Railway Sidings	1938	10560
70m NW	Railway Sidings	1947	10560
94m W	Railway Sidings	1964	2500
95m W	Railway Sidings	1986	2500
124m W	Railway Sidings	1988	2500
148m W	Railway Sidings	1964	2500
166m W	Railway Sidings	1964	2500
171m W	Railway Sidings	1986	2500
171m W	Railway Sidings	1991	2500
176m W	Railway Sidings	1993	2500

This data is sourced from Ordnance Survey/Groundsure.

22.5 Royal Mail tunnels

Records within 250m	0

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

This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m	5

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

Features are displayed on the Railway infrastructure and projects map on **page 218 >**

Location	Description
On site	**Abandoned**
On site	**Abandoned**
On site	**Abandoned**
On site	**Abandoned**
On site	**Abandoned**

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m	68

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

Features are displayed on the Railway infrastructure and projects map on **page 218 >**

Location	Name	Type
On site		**rail**
On site	**Parkside West Curve**	**rail**
On site	**Liverpool to Manchester Lines**	**rail**
On site	**Liverpool to Manchester Lines**	**rail**

Location	Name	Type
On site	West Coast Main Line	rail
On site	Liverpool to Manchester Lines	rail
On site	Parkside West Curve	rail
On site	Liverpool to Manchester Lines	rail
On site	Liverpool to Manchester Lines	rail
On site	Parkside West Curve	rail
On site	West Coast Main Line	rail
On site	Liverpool to Manchester Lines	rail
On site	Parkside West Curve	rail
On site	Liverpool to Manchester Lines	rail
On site	Liverpool to Manchester Lines	rail
On site	Liverpool to Manchester Lines	rail
On site	Parkside West Curve	rail
On site	Parkside West Curve	rail
On site	Liverpool to Manchester Lines	rail
On site	Liverpool to Manchester Lines	rail
On site	Liverpool to Manchester Lines	rail
On site	Not given	Multi Track
On site	Not given	Multi Track
On site	Not given	Multi Track
On site	Not given	Multi Track
On site	Not given	Multi Track
On site	Not given	Multi Track
On site	Not given	Multi Track
On site	Not given	Multi Track
On site	Not given	Multi Track
On site	Not given	Multi Track
On site	Not given	Multi Track

Location	Name	Type
On site	**Not given**	**Multi Track**
On site	**Not given**	**Multi Track**
On site	**Not given**	**Multi Track**
On site	**Not given**	**Multi Track**
On site	**Not given**	**Multi Track**
On site	**Not given**	**Multi Track**
On site	**Not given**	**Multi Track**
On site	**Not given**	**Multi Track**
On site	**Not given**	**Multi Track**
On site	**Not given**	**Multi Track**
On site	**Not given**	**Multi Track**
On site	**Not given**	**Multi Track**
On site	**Not given**	**Multi Track**
On site	**Not given**	**Multi Track**
On site	**Not given**	**Multi Track**
On site	**Not given**	**Multi Track**
On site	**Not given**	**Multi Track**
On site	**Not given**	**Multi Track**
On site	**Not given**	**Multi Track**
On site	**Not given**	**Multi Track**
1m W	Not given	Multi Track
6m W	Liverpool to Manchester Lines	rail
7m W	Liverpool to Manchester Lines	rail
8m N	Liverpool to Manchester Lines	rail
13m NW	Not given	Multi Track
15m W	Not given	Multi Track
33m W	Not given	Multi Track
52m W	Not given	Multi Track
56m W	Liverpool to Manchester Lines	rail
56m W	Liverpool to Manchester Lines	rail

Location	Name	Type
97m NW	West Coast Main Line	rail
97m W	Not given	Multi Track
100m NW	West Coast Main Line	rail
204m W	Not given	Multi Track
208m NW	Not given	Multi Track
240m NW	Not given	Multi Track
250m W	Liverpool to Manchester Lines	rail
250m W	Liverpool to Manchester Lines	rail

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 1

Records within 500m	0

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

This data is sourced from publicly available information by Groundsure.

22.9 Crossrail 2

Records within 500m	0

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

This data is sourced from publicly available information by Groundsure.

22.10 HS2

Records within 500m	0

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

This data is sourced from HS2 ltd.

Data providers

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

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Groundsure LOCATION INTELLIGENCE

Enviro+Geo Insight

ILP North Wigan Site

Order Details

Date: 02/06/2025

Your ref: 233398 / 11496

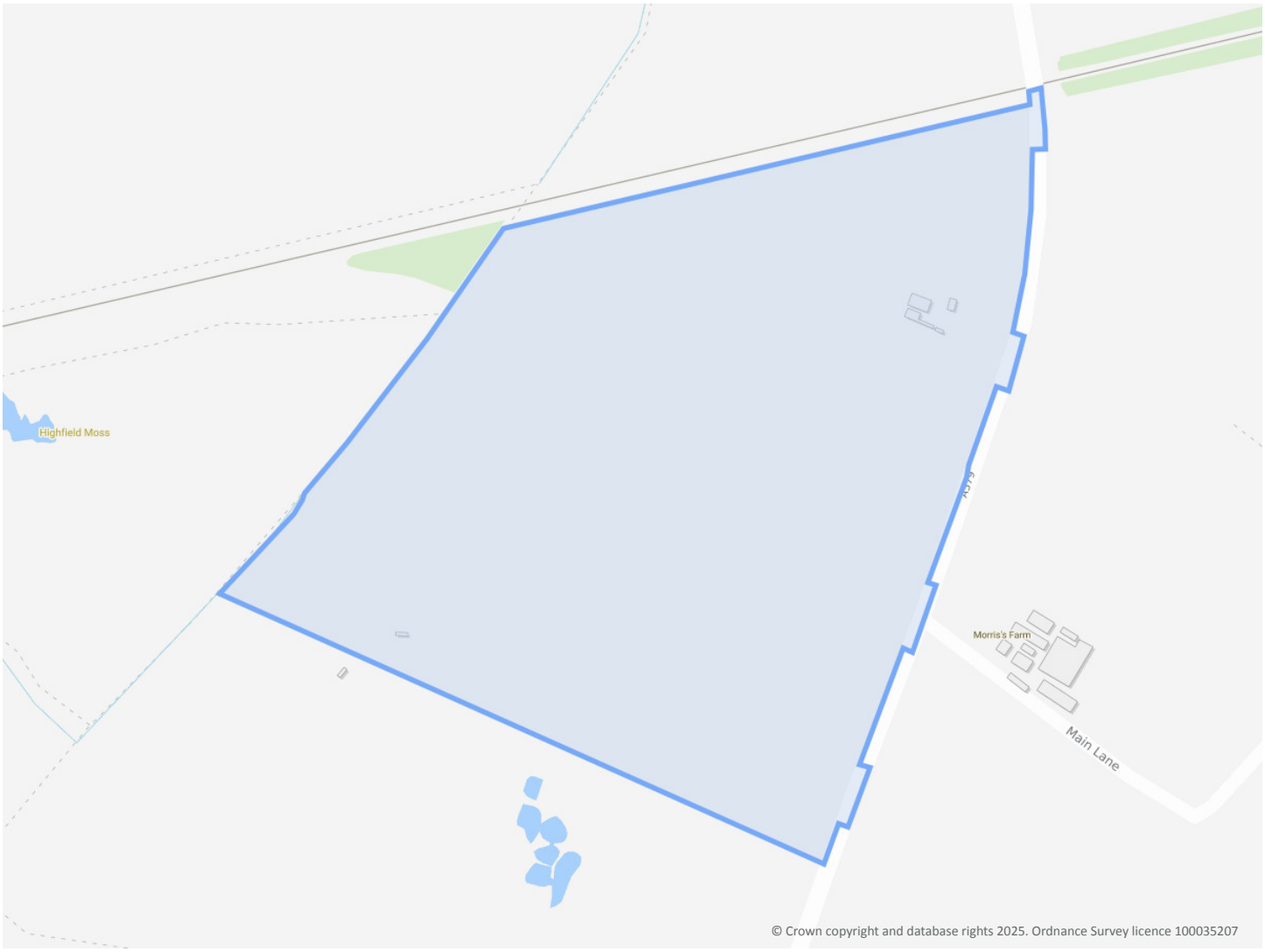
Our Ref: GS-SUF-6NK-EKV-F2X

Site Details

Location: 361922 395578

Area: 28.34 ha

Authority: Wigan Council ↗, Warrington Borough Council ↗



Summary of findings p. 2 >

OS MasterMap site plan N/A: >10ha

Aerial image p. 9 >

Insight User Guide ↗

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

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Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
14 >	1.1 >	Historical industrial land uses >	11	15	6	13	-
16 >	1.2 >	Historical tanks >	0	0	0	3	-
17	1.3	Historical energy features	0	0	0	0	-
17	1.4	Historical petrol stations	0	0	0	0	-
17	1.5	Historical garages	0	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
19 >	2.1 >	Historical industrial land uses >	11	18	7	20	-
22 >	2.2 >	Historical tanks >	0	0	0	3	-
22	2.3	Historical energy features	0	0	0	0	-
22	2.4	Historical petrol stations	0	0	0	0	-
22	2.5	Historical garages	0	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	-
24	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
24	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
24	3.5	Historical waste sites	0	0	0	0	-
24	3.6	Licensed waste sites	0	0	0	0	-
24 >	3.7 >	Waste exemptions >	0	0	0	37	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
29 >	4.1 >	Recent industrial land uses >	0	1	1	-	-
30	4.2	Current or recent petrol stations	0	0	0	0	-
30	4.3	Electricity cables	0	0	0	0	-
30	4.4	Gas pipelines	0	0	0	0	-
30	4.5	Sites determined as Contaminated Land	0	0	0	0	-

30	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
31	4.7	Regulated explosive sites	0	0	0	0	-
31	4.8	Hazardous substance storage/usage	0	0	0	0	-
31	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
31	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
31	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
32	4.12	Radioactive Substance Authorisations	0	0	0	0	-
32	4.13	Licensed Discharges to controlled waters	0	0	0	0	-
32	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
32	4.15	Pollutant release to public sewer	0	0	0	0	-
32	4.16	List 1 Dangerous Substances	0	0	0	0	-
33	4.17	List 2 Dangerous Substances	0	0	0	0	-
33	4.18	Pollution Incidents (EA/NRW)	0	0	0	0	-
33	4.19	Pollution inventory substances	0	0	0	0	-
33	4.20	Pollution inventory waste transfers	0	0	0	0	-
33	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	**Hydrogeology** >	On site	0-50m	50-250m	250-500m	500-2000m
34 >	**5.1** >	**Superficial aquifer** >	Identified (within 500m)				
36 >	**5.2** >	**Bedrock aquifer** >	Identified (within 500m)				
38 >	**5.3** >	**Groundwater vulnerability** >	Identified (within 50m)				
40	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
40	5.5	Groundwater vulnerability- local information	None (within 0m)				
41 >	**5.6** >	**Groundwater abstractions** >	0	0	0	0	4
42	5.7	Surface water abstractions	0	0	0	0	0
43 >	**5.8** >	**Potable abstractions** >	0	0	0	0	3
44 >	**5.9** >	**Source Protection Zones** >	1	0	0	1	-
44	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	**Hydrology** >	On site	0-50m	50-250m	250-500m	500-2000m
45 >	**6.1** >	**Water Network (OS MasterMap)** >	0	4	2	-	-

46 >	6.2 >	Surface water features >	0	3	5	-	-
46 >	6.3 >	WFD Surface water body catchments >	2	-	-	-	-
47 >	6.4 >	WFD Surface water bodies >	0	0	0	-	-
47 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
48	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
48	7.2	Historical Flood Events	0	0	0	-	-
48	7.3	Flood Defences	0	0	0	-	-
49	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
49	7.5	Flood Storage Areas	0	0	0	-	-
50	7.6	Flood Zone 2	None (within 50m)				
50	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding >					
51 >	8.1 >	Surface water flooding >	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
53 >	9.1 >	Groundwater flooding >	Moderate (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
54 >	10.1 >	Sites of Special Scientific Interest (SSSI) >	1	0	0	0	0
55	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
55	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
55	10.4	Special Protection Areas (SPA)	0	0	0	0	0
55	10.5	National Nature Reserves (NNR)	0	0	0	0	0
56	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
56	10.7	Designated Ancient Woodland	0	0	0	0	0
56	10.8	Biosphere Reserves	0	0	0	0	0
56	10.9	Forest Parks	0	0	0	0	0
57	10.10	Marine Conservation Zones	0	0	0	0	0
57 >	10.11 >	Green Belt >	2	0	1	0	1
57	10.12	Proposed Ramsar sites	0	0	0	0	0

57	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
58	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
58	10.15	Nitrate Sensitive Areas	0	0	0	0	0
58 >	10.16 >	Nitrate Vulnerable Zones >	0	2	3	0	4
60 >	10.17 >	SSSI Impact Risk Zones >	6	-	-	-	-
63 >	10.18 >	SSSI Units >	1	0	2	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
65	11.1	World Heritage Sites	0	0	0	-	-
65	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
65	11.3	National Parks	0	0	0	-	-
65	11.4	Listed Buildings	0	0	0	-	-
66	11.5	Conservation Areas	0	0	0	-	-
66	11.6	Scheduled Ancient Monuments	0	0	0	-	-
66	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
67 >	12.1 >	Agricultural Land Classification >	Grade 3 (within 250m)				
68 >	12.2 >	Open Access Land >	2	0	2	-	-
68	12.3	Tree Felling Licences	0	0	0	-	-
69 >	12.4 >	Environmental Stewardship Schemes >	0	1	2	-	-
69 >	12.5 >	Countryside Stewardship Schemes >	1	2	1	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
70 >	13.1 >	Priority Habitat Inventory >	1	9	6	-	-
71 >	13.2 >	Habitat Networks >	2	0	0	-	-
71	13.3	Open Mosaic Habitat	0	0	0	-	-
72	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
73 >	14.1 >	10k Availability >	Identified (within 500m)				
74	14.2	Artificial and made ground (10k)	0	0	0	0	-
75	14.3	Superficial geology (10k)	0	0	0	0	-

75	14.4	Landslip (10k)	0	0	0	0	-
76	14.5	Bedrock geology (10k)	0	0	0	0	-
76	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
77 >	15.1 >	50k Availability >	Identified (within 500m)				
78	15.2	Artificial and made ground (50k)	0	0	0	0	-
78	15.3	Artificial ground permeability (50k)	0	0	-	-	-
79 >	15.4 >	Superficial geology (50k) >	5	2	2	5	-
80 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
81	15.6	Landslip (50k)	0	0	0	0	-
81	15.7	Landslip permeability (50k)	None (within 50m)				
82 >	15.8 >	Bedrock geology (50k) >	1	0	0	0	-
83 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
83 >	15.10 >	Bedrock faults and other linear features (50k) >	0	0	1	0	-
Page	Section	**Boreholes >**	On site	0-50m	50-250m	250-500m	500-2000m
84 >	16.1 >	BGS Boreholes >	3	0	1	-	-
Page	Section	**Natural ground subsidence >**					
86 >	17.1 >	Shrink swell clays >	Low (within 50m)				
88 >	17.2 >	Running sands >	Low (within 50m)				
90 >	17.3 >	Compressible deposits >	High (within 50m)				
92 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
93 >	17.5 >	Landslides >	Very low (within 50m)				
94 >	17.6 >	Ground dissolution of soluble rocks >	Negligible (within 50m)				
Page	Section	**Mining and ground workings >**	On site	0-50m	50-250m	250-500m	500-2000m
96 >	18.1 >	BritPits >	0	0	1	1	-
97 >	18.2 >	Surface ground workings >	25	18	40	-	-
100	18.3	Underground workings	0	0	0	0	0
101	18.4	Underground mining extents	0	0	0	0	-
101	18.5	Historical Mineral Planning Areas	0	0	0	0	-

101	18.6	Non-coal mining	0	0	0	0	0
101	18.7	JPB mining areas	None (within 0m)				
101	18.8	The Coal Authority non-coal mining	0	0	0	0	-
102	18.9	Researched mining	0	0	0	0	-
102	18.10	Mining record office plans	0	0	0	0	-
102	18.11	BGS mine plans	0	0	0	0	-
102 >	**18.12 >**	**Coal mining >**	Identified (within 0m)				
103	18.13	Brine areas	None (within 0m)				
103	18.14	Gypsum areas	None (within 0m)				
103	18.15	Tin mining	None (within 0m)				
103	18.16	Clay mining	None (within 0m)				

Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
104	19.1	Natural cavities	0	0	0	0	-
104	19.2	Mining cavities	0	0	0	0	0
104	19.3	Reported recent incidents	0	0	0	0	-
104	19.4	Historical incidents	0	0	0	0	-

Page	Section	**Radon >**					
106 >	**20.1 >**	**Radon >**	Less than 1% (within 0m)				

Page	Section	**Soil chemistry >**	On site	0-50m	50-250m	250-500m	500-2000m
108 >	**21.1 >**	**BGS Estimated Background Soil Chemistry >**	14	4	-	-	-
109	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
109	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
110	22.1	Underground railways (London)	0	0	0	-	-
110	22.2	Underground railways (Non-London)	0	0	0	-	-
111	22.3	Railway tunnels	0	0	0	-	-
111	22.4	Historical railway and tunnel features	0	0	0	-	-
111	22.5	Royal Mail tunnels	0	0	0	-	-
111	22.6	Historical railways	0	0	0	-	-

111 >	22.7 >	Railways >	0	4	0	-	-
112	22.8	Crossrail 2	0	0	0	0	-
112	22.9	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 20/05/2023

Site Area: 28.34ha

Recent site history - 2019 aerial photograph



Capture Date: 22/04/2019

Site Area: 28.34ha

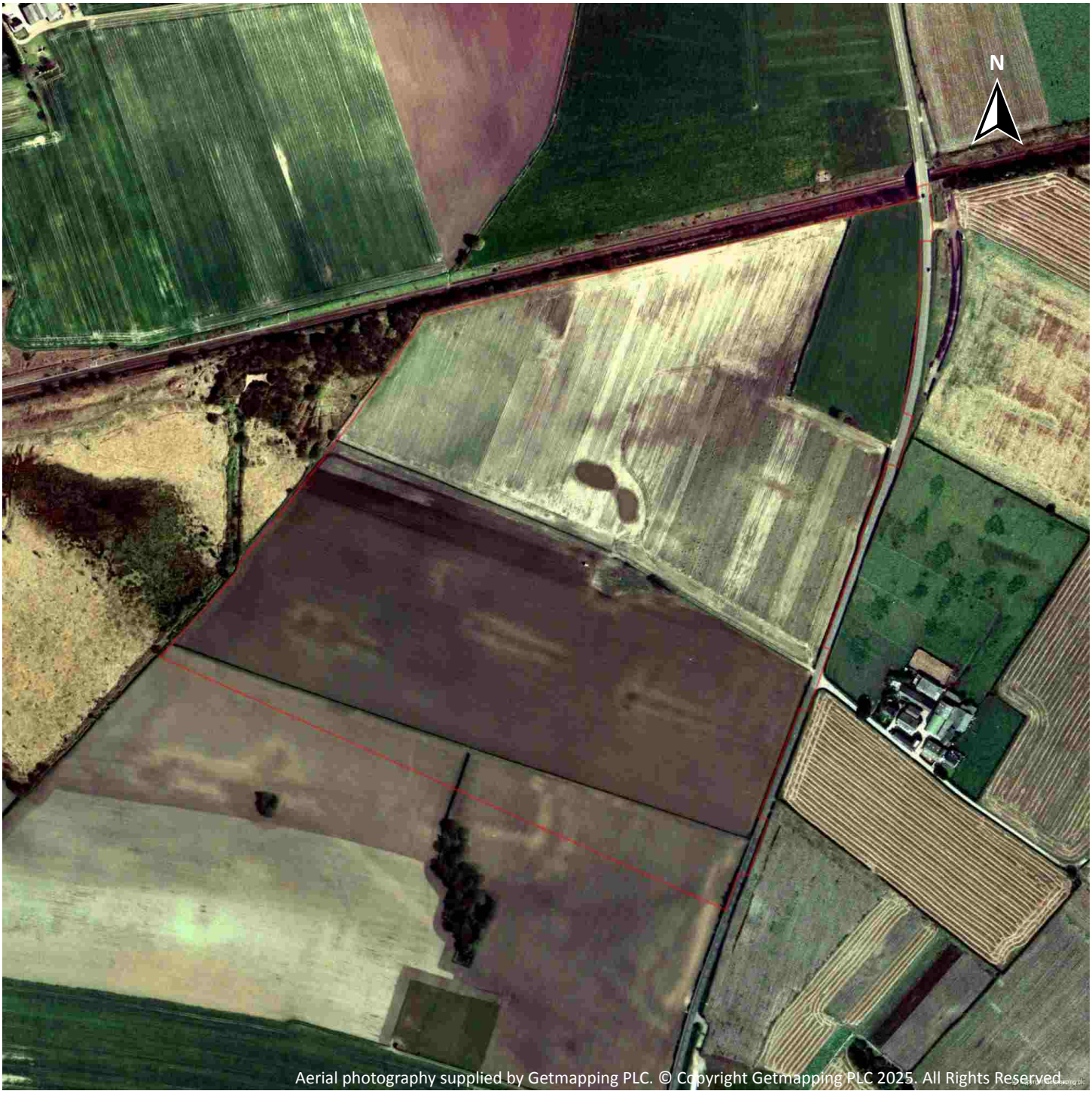
Recent site history - 2009 aerial photograph



Capture Date: 02/06/2009

Site Area: 28.34ha

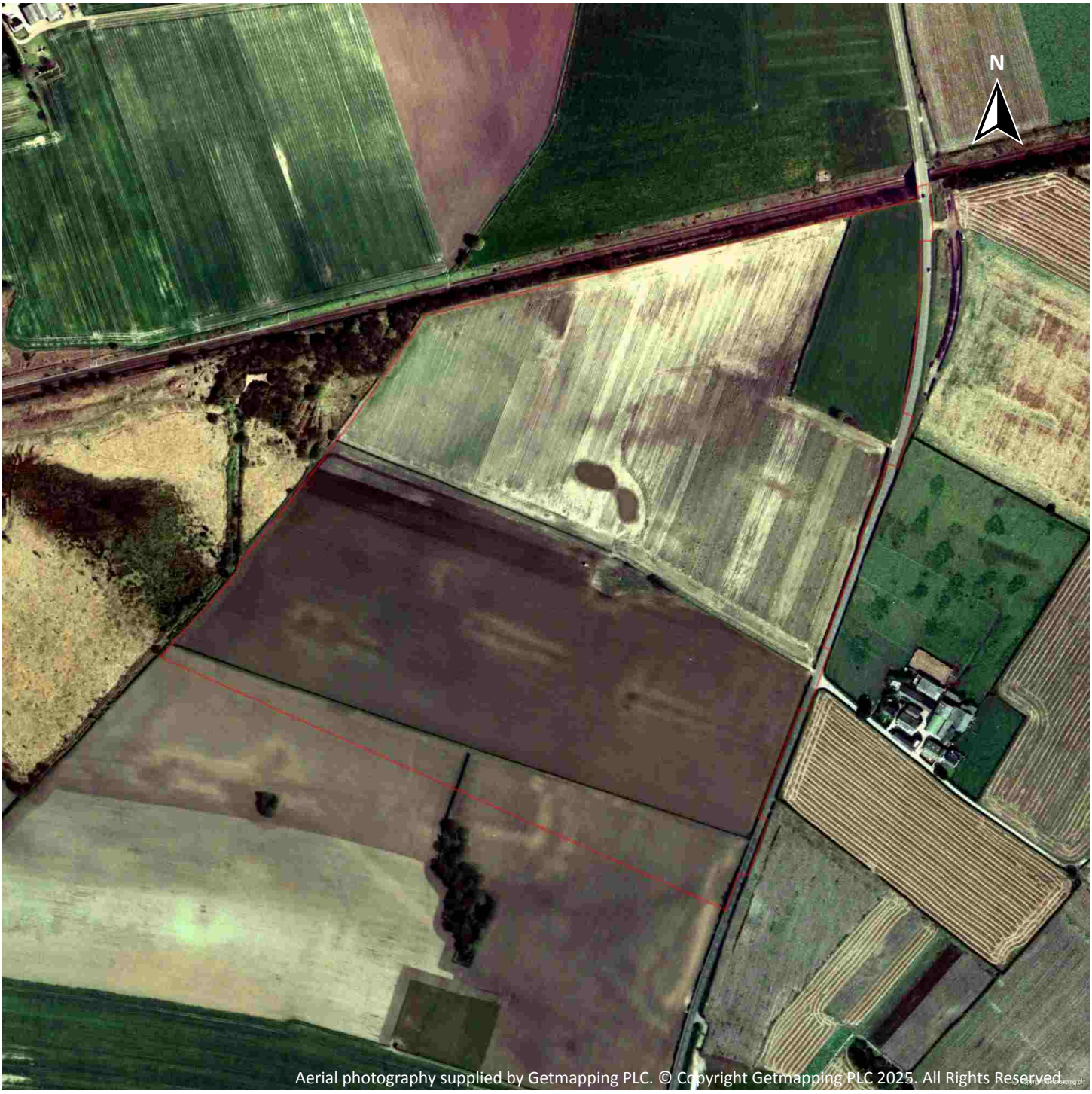
Recent site history - 2001 aerial photograph



Capture Date: 07/05/2001

Site Area: 28.34ha

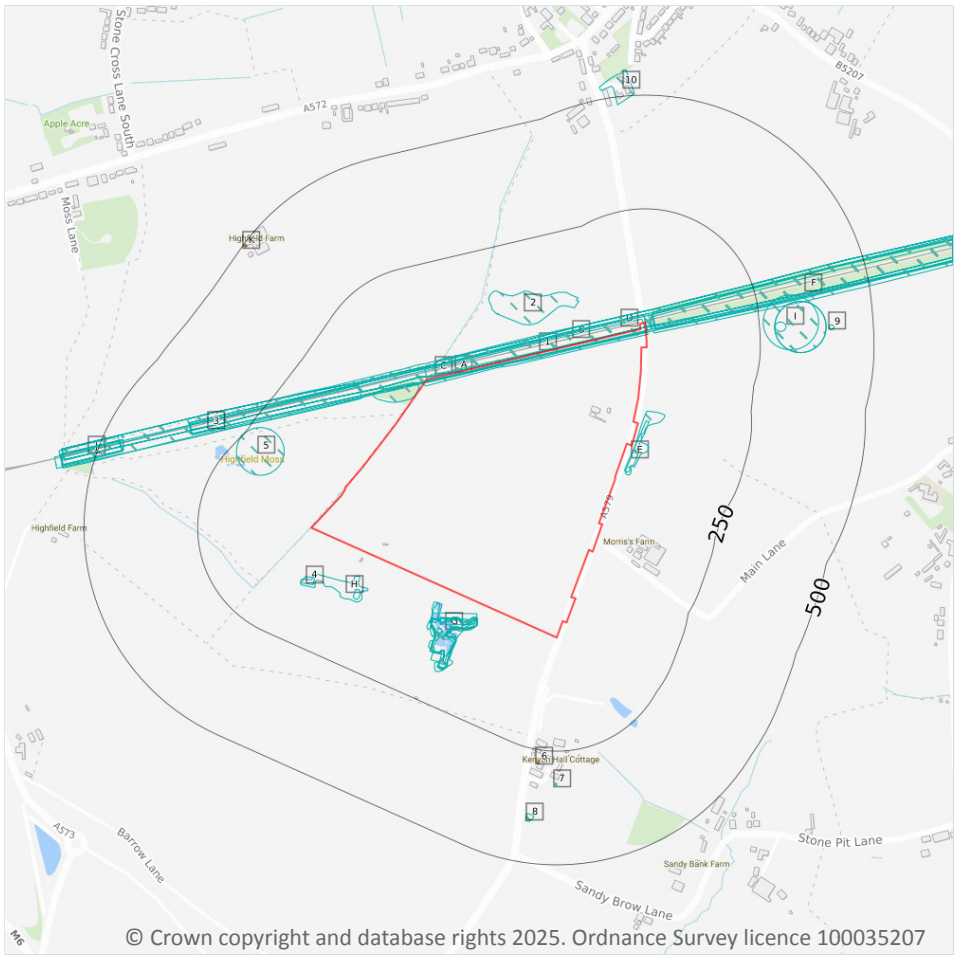
Recent site history - 2000 aerial photograph



Capture Date: 04/09/2000

Site Area: 28.34ha

1 Past land use



Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

1.1 Historical industrial land uses

Records within 500m	45

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 14 >**

ID	Location	Land use	Dates present	Group ID
1	**On site**	**Cuttings**	**1849**	**915000**

ID	Location	Land use	Dates present	Group ID
A	**On site**	**Cuttings**	**1892**	**895262**
B	**On site**	**Cuttings**	**1965**	**896943**
B	**On site**	**Cuttings**	**1972**	**926327**
B	**On site**	**Cuttings**	**1984**	**954131**
B	**On site**	**Cuttings**	**1992**	**973752**
C	**On site**	**Cuttings**	**1938**	**917512**
C	**On site**	**Cuttings**	**1906**	**966725**
D	**On site**	**Cuttings**	**1955**	**918760**
D	**On site**	**Cuttings**	**1925**	**921734**
D	**On site**	**Cuttings**	**1947**	**953955**
A	1m NW	Sand Pit	1849	827360
E	7m SE	Unspecified Pits	1906	855960
E	7m E	Pits	1849	838176
F	12m E	Cuttings	1892	988081
F	18m E	Cuttings	1938	873265
F	18m E	Cuttings	1906	987313
F	21m E	Cuttings	1849	972735
G	24m SW	Pits	1849	838161
G	31m SW	Unspecified Pits	1972 - 1992	992120
G	33m SW	Unspecified Pits	1955 - 1965	891699
G	35m SW	Unspecified Pits	1926	984547
G	39m SW	Unspecified Pits	1906	879065
G	39m SW	Unspecified Pits	1938	945589
G	39m SW	Unspecified Pits	1926	991747
G	44m SW	Unspecified Pits	1891	927195
H	55m SW	Pits	1849	838177
2	65m N	Old Sand Pit	1947 - 1955	894463
H	81m SW	Unspecified Pits	1906	855962

ID	Location	Land use	Dates present	Group ID
3	95m NW	Cuttings	1849	936136
4	97m SW	Unspecified Pits	1906	855961
5	144m NW	Rifle Range	1892	820316
I	259m E	Battery	1955 - 1992	943940
I	283m E	Battery	1938	954579
I	283m E	Battery	1906	1005961
I	284m E	Battery	1925	950797
7	320m S	Pump	1849	834620
8	393m S	Sand Pit	1849	827346
9	403m E	Battery	1849	840841
J	447m W	Cuttings	1906	1002016
J	447m W	Cuttings	1938	1004608
J	448m W	Cuttings	1925	963869
J	450m W	Cuttings	1947	883132
J	456m NW	Cuttings	1955	893659
10	483m N	Unspecified Depot	1965 - 1992	981903

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	**3**

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

Features are displayed on the Past land use map on **page 14 >**

ID	Location	Land use	Dates present	Group ID
6	274m S	Unspecified Tank	1994	120786
K	493m NW	Sewage Tank	1928	112569

ID	Location	Land use	Dates present	Group ID
K	493m NW	Unspecified Tank	1907	120800

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	0

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

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m	0

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

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m	0

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

This data is sourced from Ordnance Survey / Groundsure.

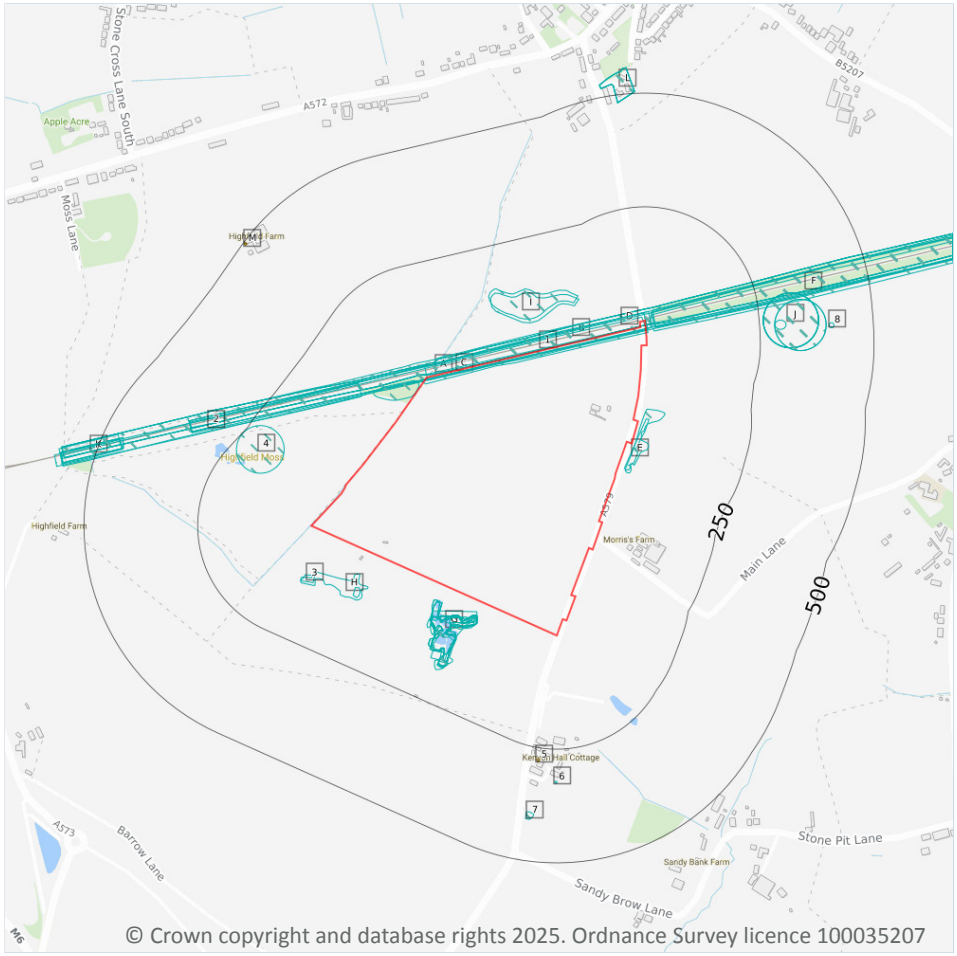
1.6 Historical military land

Records within 500m	0

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

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

2 Past land use - un-grouped



Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

2.1 Historical industrial land uses

Records within 500m	56

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

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

ID	Location	Land Use	Date	Group ID
1	**On site**	**Cuttings**	**1849**	**915000**
A	**On site**	**Cuttings**	**1938**	**917512**
A	**On site**	**Cuttings**	**1906**	**966725**

ID	Location	Land Use	Date	Group ID
B	**On site**	**Cuttings**	**1992**	**973752**
B	**On site**	**Cuttings**	**1972**	**926327**
B	**On site**	**Cuttings**	**1984**	**954131**
B	**On site**	**Cuttings**	**1965**	**896943**
C	**On site**	**Cuttings**	**1892**	**895262**
D	**On site**	**Cuttings**	**1955**	**918760**
D	**On site**	**Cuttings**	**1925**	**921734**
D	**On site**	**Cuttings**	**1947**	**953955**
C	1m NW	Sand Pit	1849	827360
E	7m SE	Unspecified Pits	1906	855960
E	7m E	Pits	1849	838176
F	12m E	Cuttings	1892	988081
F	18m E	Cuttings	1938	873265
F	18m E	Cuttings	1906	987313
F	21m E	Cuttings	1849	972735
G	24m SW	Pits	1849	838161
G	31m SW	Unspecified Pits	1992	992120
G	31m SW	Unspecified Pits	1972	992120
G	31m SW	Unspecified Pits	1984	992120
G	33m SW	Unspecified Pits	1965	891699
G	33m SW	Unspecified Pits	1955	891699
G	35m SW	Unspecified Pits	1926	984547
G	39m SW	Unspecified Pits	1938	945589
G	39m SW	Unspecified Pits	1926	991747
G	39m SW	Unspecified Pits	1906	879065
G	44m SW	Unspecified Pits	1891	927195
H	55m SW	Pits	1849	838177
I	65m N	Old Sand Pit	1947	894463

ID	Location	Land Use	Date	Group ID
I	73m N	Old Sand Pit	1955	894463
H	81m SW	Unspecified Pits	1906	855962
2	95m NW	Cuttings	1849	936136
3	97m SW	Unspecified Pits	1906	855961
4	144m NW	Rifle Range	1892	820316
J	259m E	Battery	1992	943940
J	259m E	Battery	1972	943940
J	259m E	Battery	1984	943940
J	259m E	Battery	1965	943940
J	259m E	Battery	1955	943940
J	283m E	Battery	1938	954579
J	283m E	Battery	1906	1005961
J	284m E	Battery	1925	950797
6	320m S	Pump	1849	834620
7	393m S	Sand Pit	1849	827346
8	403m E	Battery	1849	840841
K	447m W	Cuttings	1938	1004608
K	447m W	Cuttings	1906	1002016
K	448m W	Cuttings	1925	963869
K	450m W	Cuttings	1947	883132
K	456m NW	Cuttings	1955	893659
L	483m N	Unspecified Depot	1992	981903
L	483m N	Unspecified Depot	1972	981903
L	483m N	Unspecified Depot	1984	981903
L	483m N	Unspecified Depot	1965	981903

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	3

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
5	274m S	Unspecified Tank	1994	120786
M	493m NW	Unspecified Tank	1907	120800
M	493m NW	Sewage Tank	1928	112569

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	0

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

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m	0

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

This data is sourced from Ordnance Survey / Groundsure.

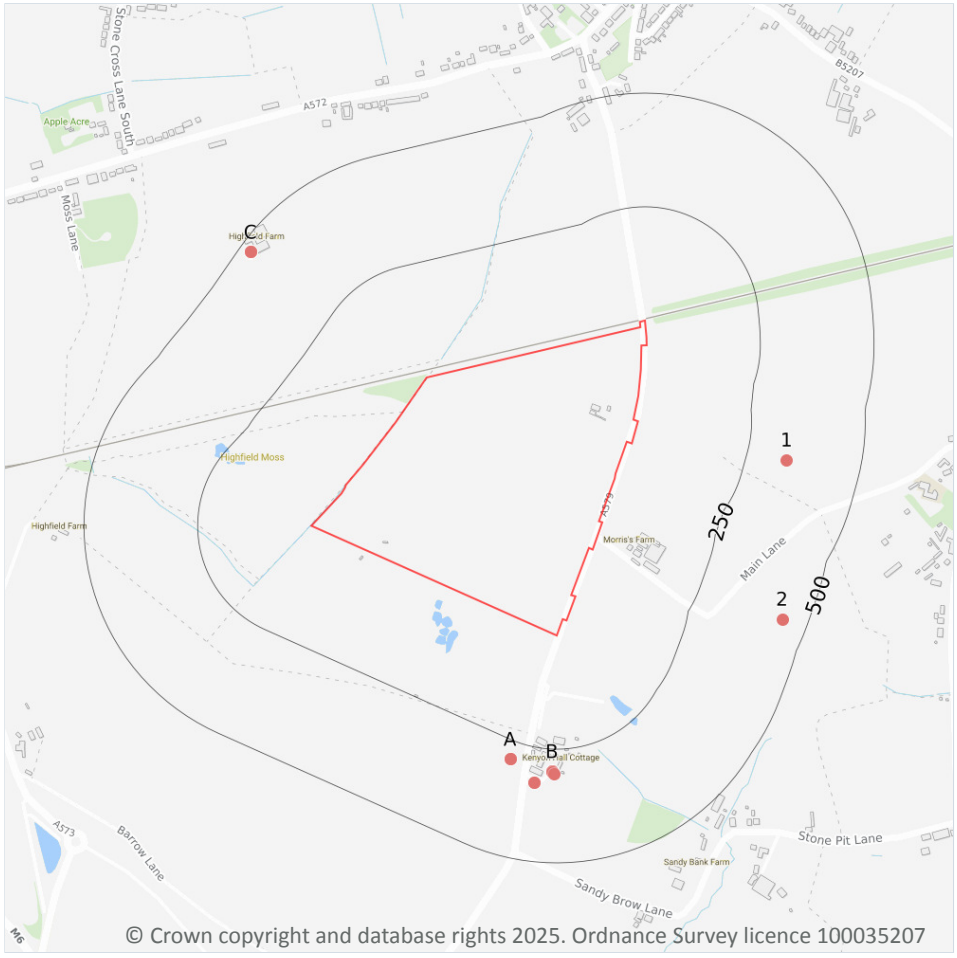
2.5 Historical garages

Records within 500m	0

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

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



Site Outline

Search buffers in metres (m)

Waste exemptions

3.1 Active or recent landfill

Records within 500m	0

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

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

3.2 Historical landfill (BGS records)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m	0

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

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

3.5 Historical waste sites

Records within 500m	0

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

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

3.6 Licensed waste sites

Records within 500m	0

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

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

3.7 Waste exemptions

Records within 500m	37

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
A	292m S	Kenyon Hall Winwick Lane Warrington Wa3 7ed	EPR/AE5046UY/A001	Using waste exemption	Non-agricultural waste only	Spreading waste on agricultural land to confer benefit

ID	Location	Site	Reference	Category	Sub-Category	Description
A	292m S	Kenyon Hall Winwick Lane Warrington Wa3 7ed	EPR/AE5046UY/A001	Storing waste exemption	Non-agricultural waste only	Storage of waste in a secure place
A	292m S	Kenyon Hall Winwick Lane Warrington Wa3 7ed	EPR/AE5046UY/A001	Using waste exemption	Non-agricultural waste only	Use of waste for a specified purpose
B	301m S	Kenyon Hall Winwick Lane Warrington Cheshire Wa3 7ed	EPR/JF0538LG/A001	Disposing of waste exemption	Agricultural waste only	Deposit of waste from dredging of inland waters
B	301m S	Kenyon Hall Winwick Lane Warrington Cheshire Wa3 7ed	EPR/JF0538LG/A001	Treating waste exemption	Agricultural waste only	Aerobic composting and associated prior treatment
B	301m S	Kenyon Hall Winwick Lane Warrington Cheshire Wa3 7ed	EPR/JF0538LG/A001	Treating waste exemption	Agricultural waste only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
B	301m S	Kenyon Hall Winwick Lane Warrington Cheshire Wa3 7ed	EPR/JF0538LG/A001	Using waste exemption	Agricultural waste only	Use of waste in construction
B	301m S	Kenyon Hall Winwick Lane Warrington Cheshire Wa3 7ed	EPR/JF0538LG/A001	Using waste exemption	Agricultural waste only	Use of waste for a specified purpose
B	301m S	Kenyon Hall Winwick Lane Warrington Cheshire Wa3 7ed	EPR/JF0538LG/A001	Disposing of waste exemption	Agricultural waste only	Burning waste in the open
B	301m S	Kenyon Hall Winwick Lane Warrington Cheshire Wa3 7ed	EPR/JF0538LG/A001	Using waste exemption	Agricultural waste only	Spreading waste on agricultural land to confer benefit
B	301m S	Kenyon Hall Winwick Lane Warrington Cheshire Wa3 7ed	EPR/JF0538LG/A001	Disposing of waste exemption	Agricultural waste only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
B	302m S	Dolly Bridge Stud, Winnick Lane, Lowton, Warrington, Wa37ed	WEX148195	Using waste exemption	On a farm	Use of waste in construction
B	306m S	Kenyon Hall, Winwick Lane, Croft, Warrington, Wa3 7ed	WEX236064	Using waste exemption	On a farm	Use of waste for a specified purpose
B	329m S	Dolly Bridge Stud, Winnick Lane, Lowton, Warrington, Wa37ed	WEX416631	Using waste exemption	On a farm	Use of waste in construction

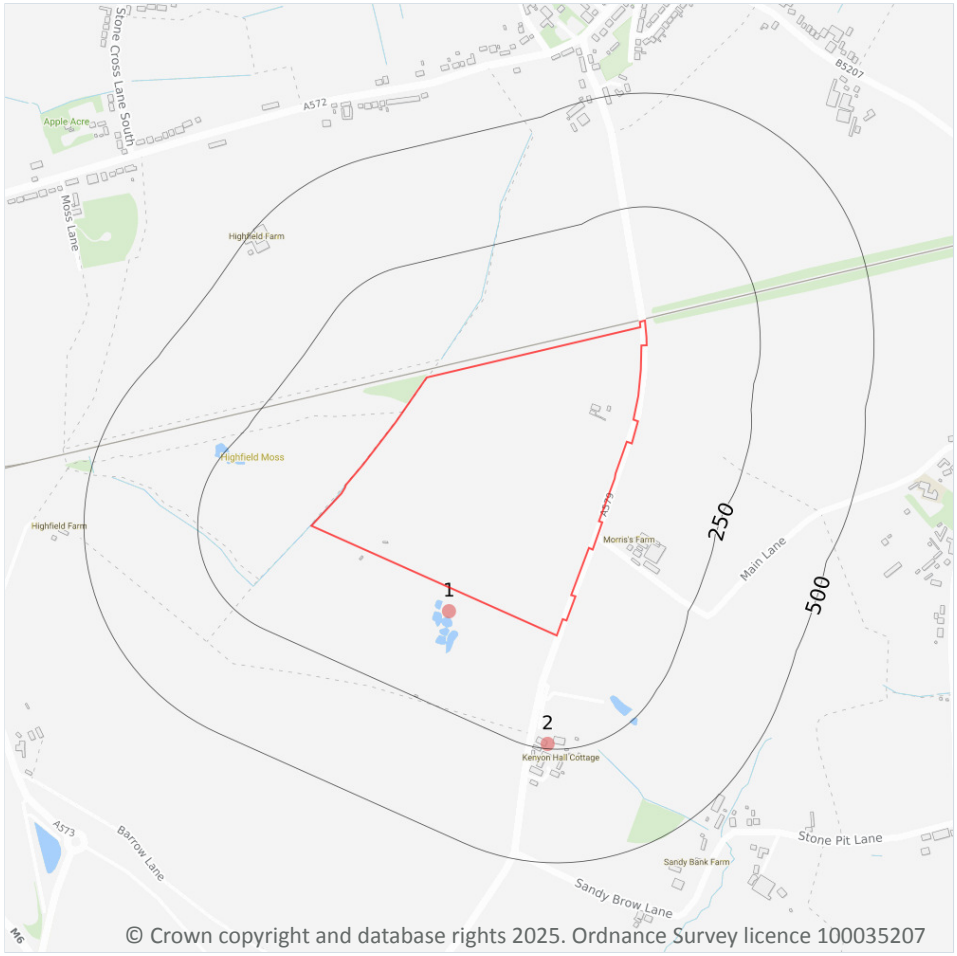
ID	Location	Site	Reference	Category	Sub-Category	Description
B	329m S	Dolly Bridge Stud, Winnick Lane, Lowton, Warrington, Wa37ed	WEX285642	Using waste exemption	On a farm	Use of waste in construction
1	338m E	-	WEX245797	Storing waste exemption	On a farm	Storage of sludge
2	444m E	-	WEX245795	Storing waste exemption	On a farm	Storage of sludge
C	475m NW	Highfield Farm Newton Road Warrington Wa3 1ny	EPR/TE5483BL /A001	Disposing of waste exemption	Agricultural waste only	Deposit of waste from dredging of inland waters
C	475m NW	Highfield Farm Newton Road Warrington Wa3 1ny	EPR/TE5483BL /A001	Using waste exemption	Agricultural waste only	Use of waste in construction
C	475m NW	Highfield Farm Newton Road Warrington Wa3 1ny	EPR/TE5483BL /A001	Disposing of waste exemption	Agricultural waste only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
C	475m NW	Highfield Farm Newton Road Warrington Wa3 1ny	EPR/TE5483BL /A001	Disposing of waste exemption	Agricultural waste only	Burning waste in the open
C	475m NW	Highfield Farm Newton Road Warrington Wa3 1ny	EPR/TE5483BL /A001	Using waste exemption	Both agricultural and non-agricultural waste	Spreading waste on agricultural land to confer benefit
C	476m NW	Highfield Farm, Highfield Lane, Newton Road, Lowton, Warrington, Wa3 1ny	WEX318728	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
C	476m NW	Highfield Farm, Highfield Lane, Newton Road, Lowton, Warrington, Wa3 1ny	WEX318728	Using waste exemption	On a farm	Use of waste in construction
C	476m NW	Highfield Farm, Highfield Lane, Newton Road, Lowton, Warrington, Wa3 1ny	WEX318728	Disposing of waste exemption	On a farm	Burning waste in the open
C	476m NW	Highfield Farm, Highfield Lane, Newton Road, Lowton, Warrington, Wa3 1ny	WEX318728	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice

ID	Location	Site	Reference	Category	Sub-Category	Description
C	476m NW	Highfield Farm, Highfield Lane, Newton Road, Lowton, Warrington, Wa3 1ny	WEX318728	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
C	476m NW	Highfield Farm, Highfield Lane, Newton Road, Lowton, Warrington, Wa3 1ny	WEX190881	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
C	476m NW	Highfield Farm, Highfield Lane, Newton Road, Lowton, Warrington, Wa3 1ny	WEX190881	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
C	476m NW	Highfield Farm, Highfield Lane, Newton Road, Lowton, Warrington, Wa3 1ny	WEX190881	Disposing of waste exemption	On a farm	Burning waste in the open
C	476m NW	Highfield Farm, Highfield Lane, Newton Road, Lowton, Warrington, Wa3 1ny	WEX190881	Using waste exemption	On a farm	Use of waste in construction
C	476m NW	Highfield Farm, Highfield Lane, Newton Road, Lowton, Warrington, Wa3 1ny	WEX190881	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
C	476m NW	Highfield Farm, Highfield Lane, Newton Road, Lowton, Warrington, Wa3 1ny	WEX027382	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
C	476m NW	Highfield Farm, Highfield Lane, Newton Road, Lowton, Warrington, Wa3 1ny	WEX027382	Disposing of waste exemption	On a farm	Burning waste in the open
C	476m NW	Highfield Farm, Highfield Lane, Newton Road, Lowton, Warrington, Wa3 1ny	WEX027382	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
C	476m NW	Highfield Farm, Highfield Lane, Newton Road, Lowton, Warrington, Wa3 1ny	WEX027382	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters

ID	Location	Site	Reference	Category	Sub-Category	Description
C	476m NW	Highfield Farm, Highfield Lane, Newton Road, Lowton, Warrington, Wa3 1ny	WEX027382	Using waste exemption	On a farm	Use of waste in construction

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

4 Current industrial land use



Site Outline

Search buffers in metres (m)

Recent industrial land uses

4.1 Recent industrial land uses

Records within 250m	2

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 29 >**

ID	Location	Company	Address	Activity	Category
1	47m SW	Workings (Dis)	Greater Manchester, WA3	Unspecified Quarries Or Mines	Extractive Industries
2	239m S	Tank	Cheshire, WA3	Tanks (Generic)	Industrial Features

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	0

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0

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

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m	0

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

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m	0

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m	0

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

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m	0

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

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m	0

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

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

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

Records within 500m	0

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

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m	0

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m	0

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

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m	0

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

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

4.15 Pollutant release to public sewer

Records within 500m	0

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m	0

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

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

4.17 List 2 Dangerous Substances

Records within 500m	0

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m	0

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

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

4.19 Pollution inventory substances

Records within 500m	0

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

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

4.20 Pollution inventory waste transfers

Records within 500m	0

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

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

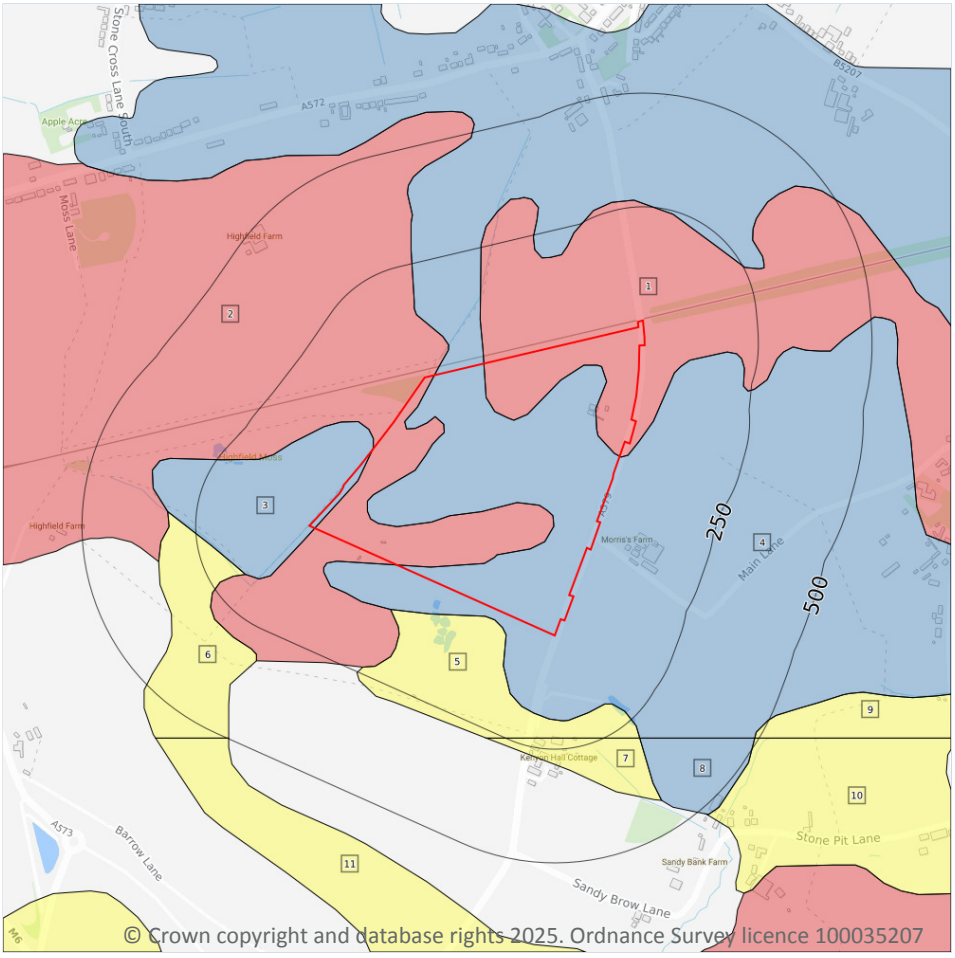
4.21 Pollution inventory radioactive waste

Records within 500m	0

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

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

5 Hydrogeology - Superficial aquifer



5.1 Superficial aquifer

Records within 500m	11

Aquifer status of groundwater held within superficial geology.

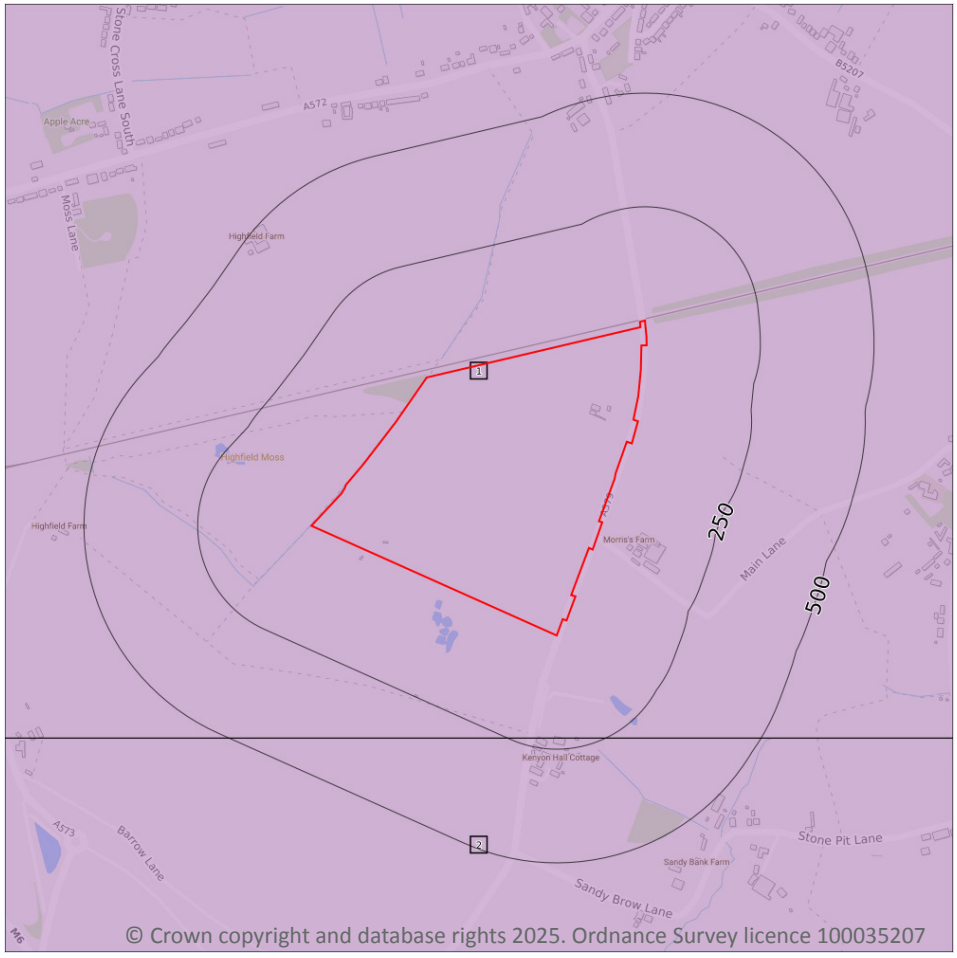
Features are displayed on the Hydrogeology map on **page 34 >**

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	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

ID	Location	Designation	Description
3	**On site**	**Unproductive**	**These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow**
4	**On site**	**Unproductive**	**These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow**
5	23m 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
6	176m 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
7	226m S	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
8	293m SE	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
9	488m SE	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
10	492m SE	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
11	499m 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

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

Bedrock aquifer



Site Outline

Search buffers in metres (m)

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

5.2 Bedrock aquifer

Records within 500m	2

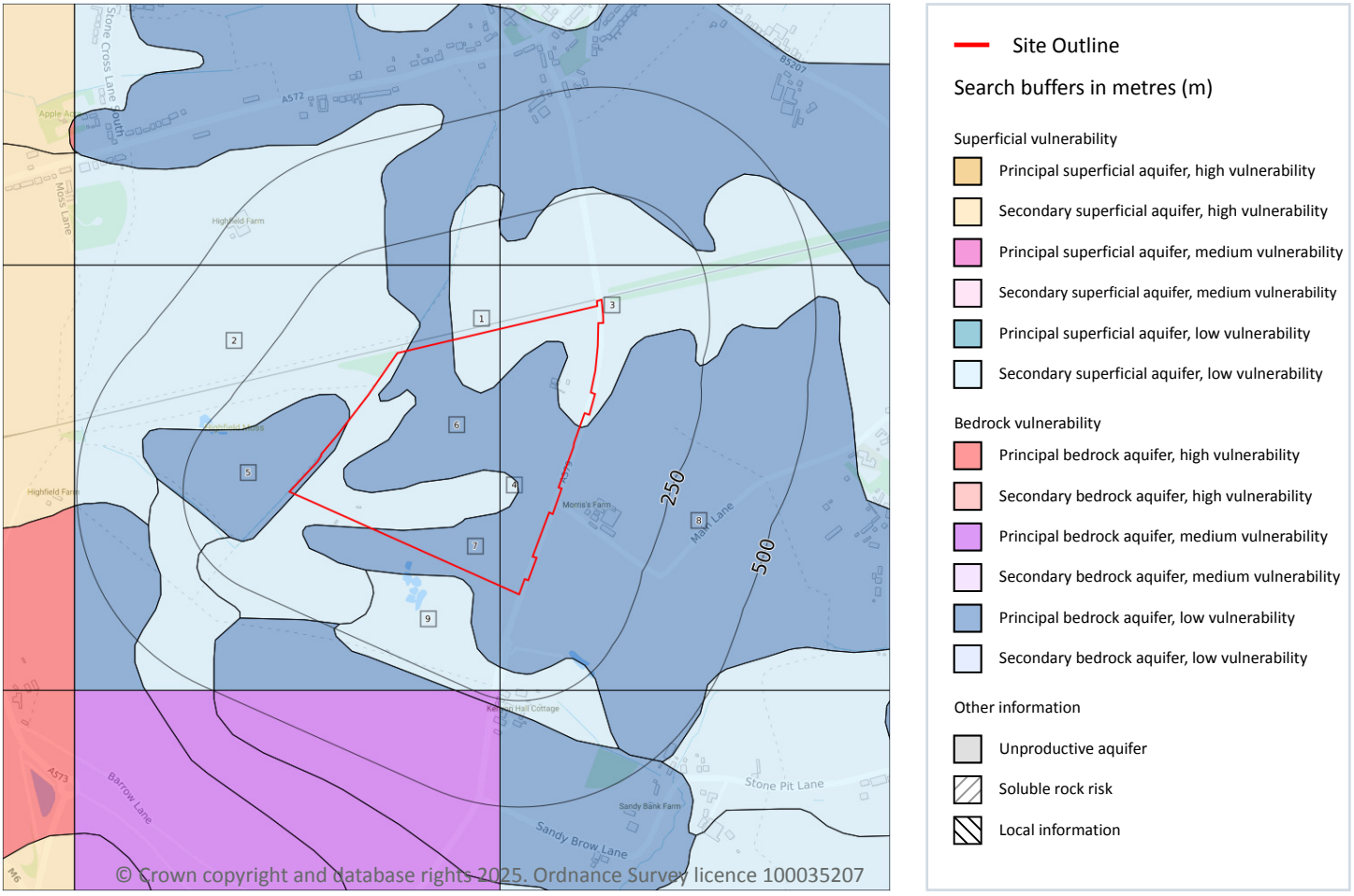
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 36 >**

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	226m S	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

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

Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m	9

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

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

Features are displayed on the Groundwater vulnerability map on **page 38 >**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
2	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
3	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
4	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
5	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: <90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
6	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: <90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
7	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: <90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
8	**On site**	**Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer**	**Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year**	**Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: >90% Recharge potential: High**	**Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed**
9	23m SW	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site	**0**

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

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

5.5 Groundwater vulnerability- local information

Records on site	**0**

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

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

Abstractions and Source Protection Zones



Site Outline

Search buffers in metres (m)

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

5.6 Groundwater abstractions

Records within 2000m	4

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 41 >**

ID	Location	Details	
A	837m E	Status: Active Licence No: 2569023005 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: BOREHOLES (2) AT KENYON, GOLBORNE Data Type: Point Name: United Utilities Water Ltd Easting: 362900 Northing: 395100	Annual Volume (m^3): 1659290 Max Daily Volume (m^3): 4546 Original Application No: 2183 Original Start Date: 02/11/1966 Expiry Date: - Issue No: 100 Version Start Date: 13/06/1973 Version End Date: -
A	837m E	Status: Historical Licence No: 2569023005 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: "BOREHOLES (2) AT KENYON, GOLBORNE" Data Type: Point Name: UNITED UTILITIES WATER PLC Easting: 362900 Northing: 395100	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 02/11/1966 Expiry Date: - Issue No: 100 Version Start Date: 13/06/1973 Version End Date: -
-	1206m S	Status: Active Licence No: NW/069/0015/011 Details: Dewatering Direct Source: Ground Water - North West Region Point: SOUTHWORTH QUARRY Data Type: Poly4 Name: GASKELL BROS (WM. & C.) LIMITED Easting: 362173 Northing: 394026	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: NPS/NA/001639 Original Start Date: 22/03/2022 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 22/03/2022 Version End Date: -
-	1959m NW	Status: Active Licence No: 2569025036 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: BANK HEATH BOREHOLE IN THE URBAN DISTRICT OF GOLBORNE Data Type: Point Name: United Utilities Water Ltd Easting: 360300 Northing: 397100	Annual Volume (m^3): 1250150 Max Daily Volume (m^3): 3864.1 Original Application No: 0751 Original Start Date: 11/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/03/1991 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m	**0**

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

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

5.8 Potable abstractions

Records within 2000m	3

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 41 >**

ID	Location	Details	
A	837m E	Status: Active Licence No: 2569023005 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: BOREHOLES (2) AT KENYON, GOLBORNE Data Type: Point Name: United Utilities Water Ltd Easting: 362900 Northing: 395100	Annual Volume (m^3): 1659290 Max Daily Volume (m^3): 4546 Original Application No: 2183 Original Start Date: 02/11/1966 Expiry Date: - Issue No: 100 Version Start Date: 13/06/1973 Version End Date: -
A	837m E	Status: Historical Licence No: 2569023005 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: "BOREHOLES (2) AT KENYON, GOLBORNE" Data Type: Point Name: UNITED UTILITIES WATER PLC Easting: 362900 Northing: 395100	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 02/11/1966 Expiry Date: - Issue No: 100 Version Start Date: 13/06/1973 Version End Date: -
-	1959m NW	Status: Active Licence No: 2569025036 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: BANK HEATH BOREHOLE IN THE URBAN DISTRICT OF GOLBORNE Data Type: Point Name: United Utilities Water Ltd Easting: 360300 Northing: 397100	Annual Volume (m^3): 1250150 Max Daily Volume (m^3): 3864.1 Original Application No: 0751 Original Start Date: 11/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/03/1991 Version End Date: -

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

5.9 Source Protection Zones

Records within 500m	2

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

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

ID	Location	Type	Description
1	**On site**	**3**	**Total catchment**
2	336m E	2	Outer catchment

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

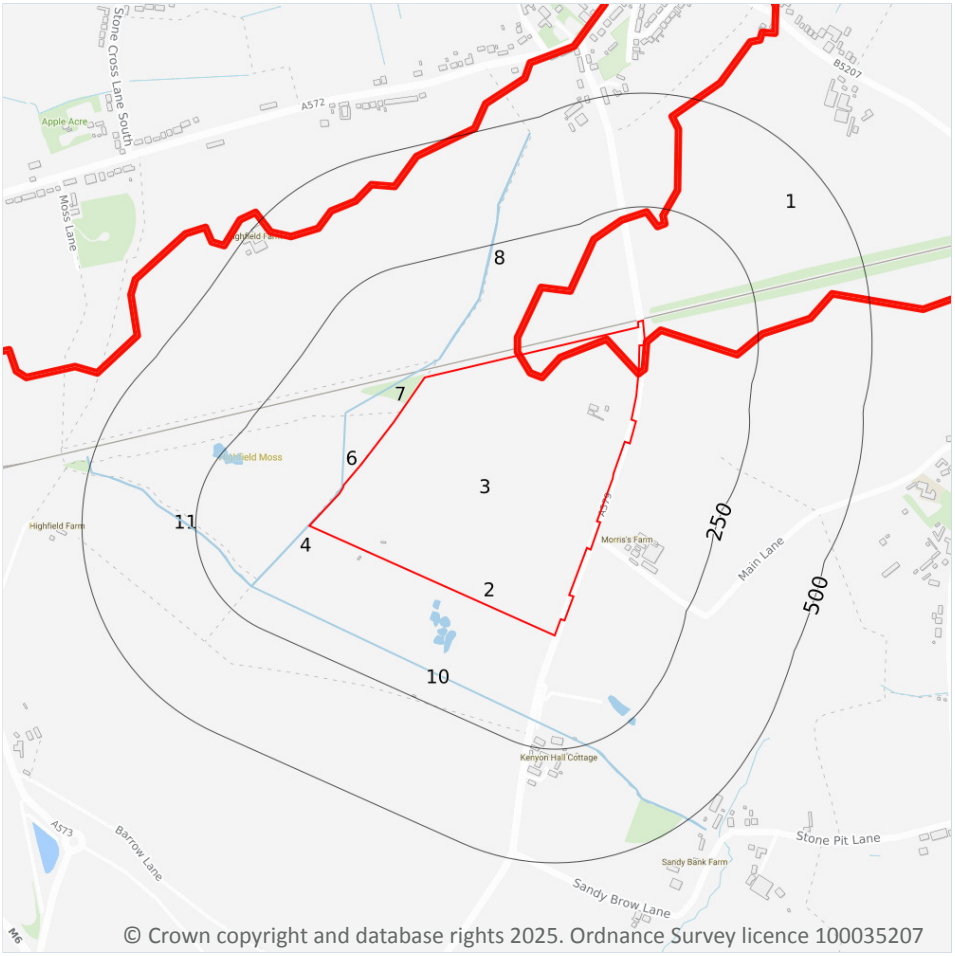
5.10 Source Protection Zones (confined aquifer)

Records within 500m	0

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

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

6 Hydrology



Site Outline

Search buffers in metres (m)

Water Network (OS MasterMap)

Surface water features (wider than 5m)

Surface water features (narrower than 5m)

WFD River, canal and surface water transfer water bodies

WFD Lake water bodies

WFD Transitional and coastal water bodies

WFD Surface water body catchments boundaries

WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m	6

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 45 >**

ID	Location	Type of water feature	Ground level	Permanence	Name
4	1m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
6	2m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
7	19m NW	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
8	32m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
10	175m SW	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
11	184m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	**8**

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 45 >**

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site	**2**

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

Features are displayed on the Hydrology map on **page 45 >**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
1	**On site**	**River**	**Glaze**	**GB112069061420**	**Glaze**	**Mersey Lower**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
2	**On site**	**River**	**Spittle Brook**	**GB112069061020**	**Glaze**	**Mersey Lower**

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

6.4 WFD Surface water bodies

Records identified	**2**

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

Features are displayed on the Hydrology map on **page 45 >**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	583m SE	River	Spittle Brook	GB112069061020 ↗	Moderate	Fail	Moderate	2019
-	1849m NE	River	Glaze	GB112069061420 ↗	Bad	Fail	Bad	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 45 >**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
3	**On site**	**Lower Mersey Basin and North Merseyside Permo-Triassic Sandstone Aquifers**	**GB41201G101700 ↗**	**Poor**	**Poor**	**Poor**	**2019**

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

7 River and coastal flooding

7.1 Risk of flooding from rivers and the sea

Records within 50m	0

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

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

7.2 Historical Flood Events

Records within 250m	0

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

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

7.3 Flood Defences

Records within 250m	0

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

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

7.4 Areas Benefiting from Flood Defences

Records within 250m	0

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

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

7.5 Flood Storage Areas

Records within 250m	0

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

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

River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m	0

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.

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

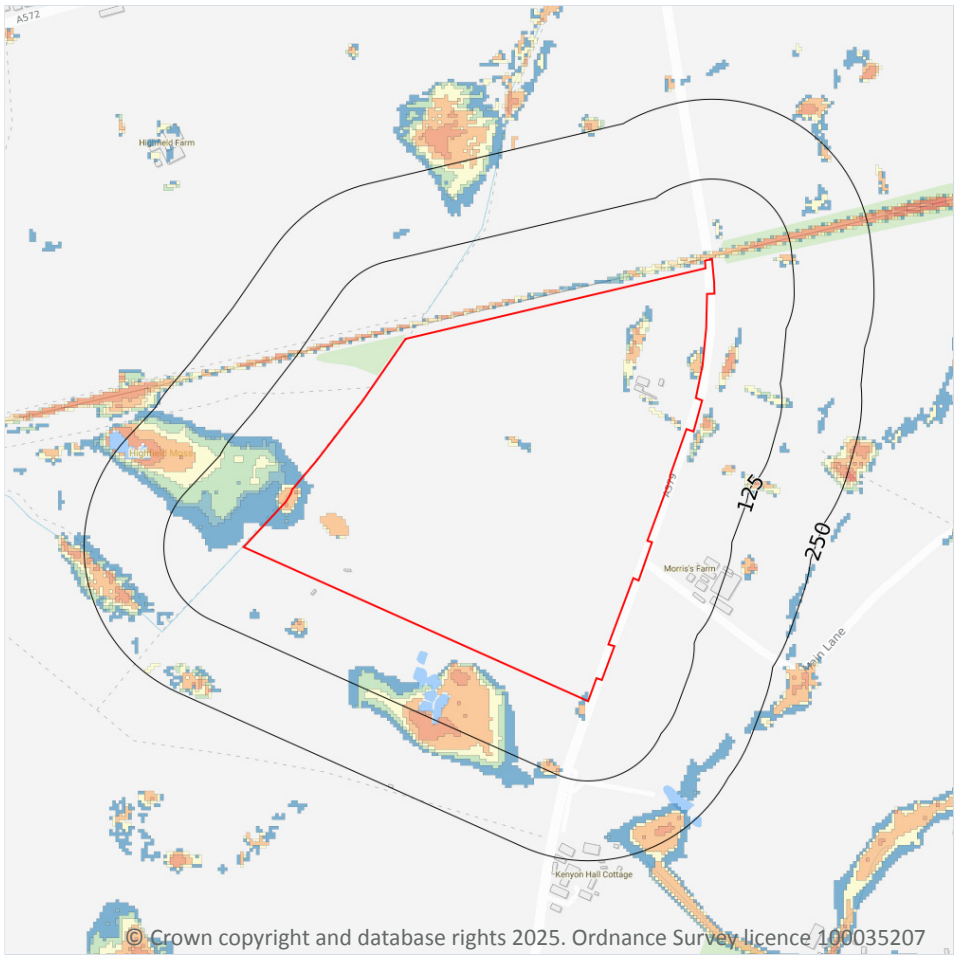
7.7 Flood Zone 3

Records within 50m	0

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.

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

8 Surface water flooding



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8.1 Surface water flooding

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

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

Features are displayed on the Surface water flooding map on **page 51 >**

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

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

Return period	Maximum modelled depth
1 in 1000 year	Greater than 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.

9 Groundwater flooding



Site Outline

Search buffers in metres (m)

High

Moderate - High

Moderate

Low

Negligible

9.1 Groundwater flooding

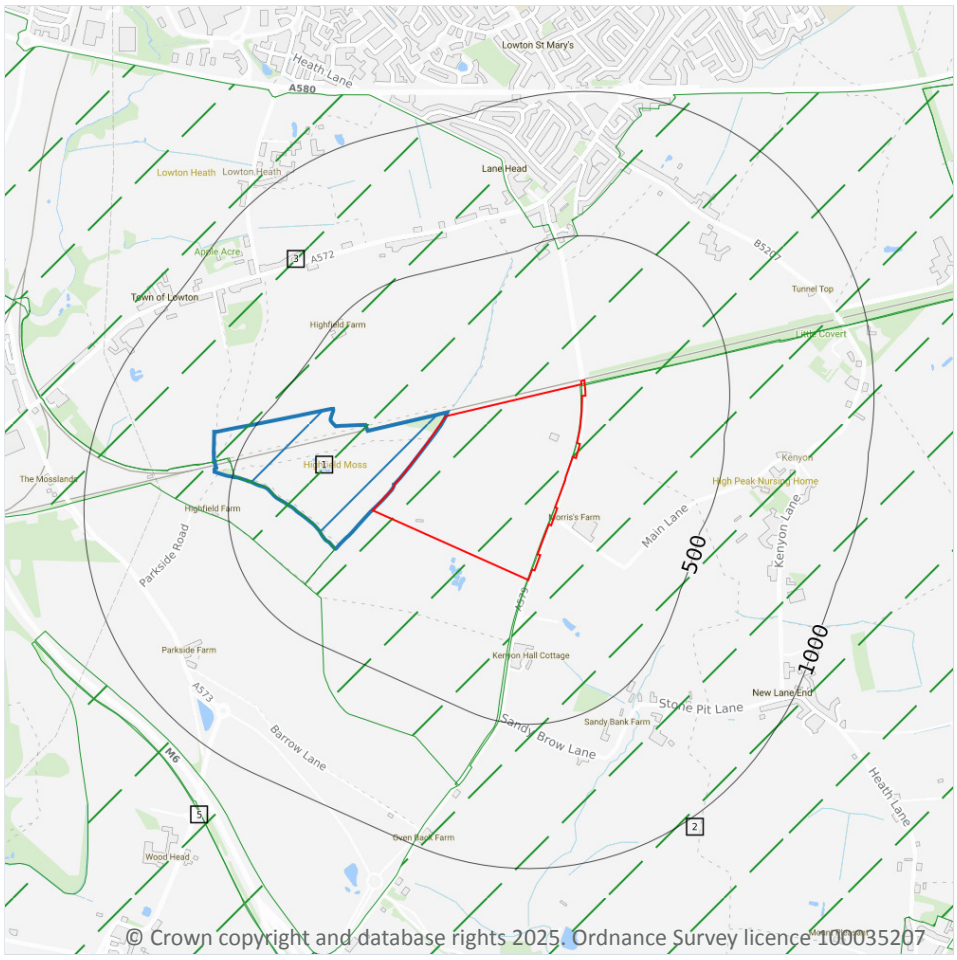
Highest risk on site	**Moderate**
Highest risk within 50m	**Moderate**

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

Features are displayed on the Groundwater flooding map on **page 53 >**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



Site Outline

Search buffers in metres (m)

Sites of Special Scientific Interest (SSSI)

Green Belt

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	1

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

Features are displayed on the Environmental designations map on **page 54 >**

ID	Location	Name	Data source
1	**On site**	**Highfield Moss SSSI**	**Natural England**

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m	0

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m	0

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m	0

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m	0

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

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

10.7 Designated Ancient Woodland

Records within 2000m	0

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

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

10.8 Biosphere Reserves

Records within 2000m	0

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

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

10.9 Forest Parks

Records within 2000m	0

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

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m	0

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

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

10.11 Green Belt

Records within 2000m	4

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

Features are displayed on the Environmental designations map on **page 54 >**

ID	Location	Name	Local Authority name
2	**On site**	**Merseyside and Greater Manchester Green Belt**	**Warrington**
3	**On site**	**Merseyside and Greater Manchester Green Belt**	**Wigan**
4	185m SW	Merseyside and Greater Manchester Green Belt	St. Helens
5	1064m SW	Merseyside and Greater Manchester Green Belt	St. Helens

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

10.12 Proposed Ramsar sites

Records within 2000m	0

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

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m	0

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

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

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m	0

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

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m	0

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

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m	9

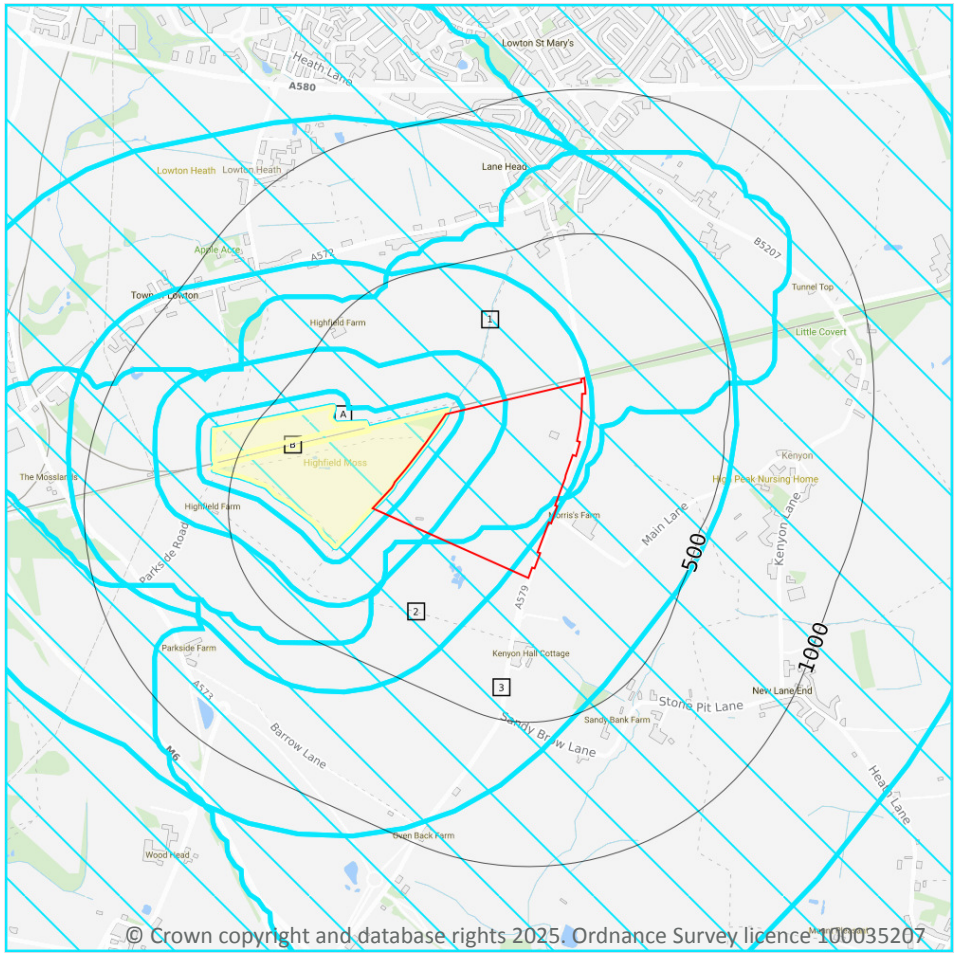
Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
23m N	Sankey Brook (Black Bk to Mersey) NVZ	Surface Water	639	Existing
32m NE	River Glaze NVZ	Surface Water	641	Existing
64m N	River Glaze NVZ	Surface Water	641	Existing
67m N	Sankey Brook (Black Bk to Mersey) NVZ	Surface Water	639	Existing
184m SW	Winwick	Groundwater	48	Existing
776m E	River Glaze NVZ	Surface Water	641	Existing
1560m N	Pennington Flash Eutrophic lake NVZ	Eutrophic Water	138	Existing
1849m E	River Glaze NVZ	Surface Water	641	Existing

Location	Name	Type	NVZ ID	Status
1852m E	River Glaze NVZ	Surface Water	641	Existing

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

SSSI Impact Zones and Units



Site Outline

Search buffers in metres (m)

SSSI Impact Risk Zones

SSSI Units

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

10.17 SSSI Impact Risk Zones

Records on site	6

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 60 >**

ID	Location	Type of developments requiring consultation
1	On site	**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. 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 > 1,000m² or footprint exceeds 0.2ha. Residential - Residential development of 100 units or more. Rural residential - Any residential development of 50 or more houses outside existing settlements/urban areas. Air pollution - Any 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 that is discharged 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 > 1,000m² or any development needing its own water supply .**
2	On site	**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. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction. Residential - Residential development of 100 units or more. Rural residential - Any residential development of 50 or more houses outside existing settlements/urban areas. Air pollution - Any 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 20m³/day 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 > 1,000m² or any development needing its own water supply .**

ID	Location	Type of developments requiring consultation
3	On site	**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. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction. Residential - Residential development of 100 units or more. Rural residential - Any residential development of 50 or more houses outside existing settlements/urban areas. Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 200m², manure stores > 250t). Combustion - General combustion processes >20MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill. Composting - Any composting proposal with more than 500 tonnes maximum annual operational throughput. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management. Discharges - Any discharge of water or liquid waste of more than 20m³/day to ground (ie to seep away) or to surface water, such as a beck or stream. Water supply - Large infrastructure such as warehousing / industry where net additional gross internal floorspace is > 1,000m² or any development needing its own water supply .**
A	On site	**All applications - ALL PLANNING APPLICATIONS - EXCEPT HOUSEHOLDER APPLICATIONS.**
A	On site	**All applications - ALL PLANNING APPLICATIONS.**
A	On site	**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. 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 > 1,000m² or footprint exceeds 0.2ha. Residential - Residential development of 50 units or more. Rural residential - Any residential development of 10 or more houses outside existing settlements/urban areas. Air pollution - Any development that could cause AIR POLLUTION or DUST either in its construction or operation (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 that is discharged 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 > 1,000m² or any development needing its own water supply .**

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	3

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 60 >**

ID: A
Location: On site
SSSI name: Highfield Moss
Unit name: Mossland
Broad habitat: Fen, Marsh And Swamp - Lowland
Condition: Unfavourable - Recovering
Reportable features:

Feature name	Feature condition	Date of assessment
Lowland dry acid grassland (U5/U6)	Unfavourable - Recovering	07/08/2013
Lowland fens, including basin, flood-plain, open water transition and valley fens	Unfavourable - Recovering	07/08/2013
Nationally scarce plant - Gentiana pneumonanthe, Marsh Gentian	Unfavourable - Recovering	07/08/2013

ID: B
Location: 183m NW
SSSI name: Highfield Moss
Unit name: The Railway Cutting
Broad habitat: Acid Grassland - Lowland
Condition: Unfavourable - Recovering
Reportable features:

Feature name	Feature condition	Date of assessment
Lowland dry acid grassland (U5/U6)	Unfavourable - Recovering	07/08/2013

ID: B
Location: 206m NW
SSSI name: Highfield Moss
Unit name: The Northern Grassland
Broad habitat: Neutral Grassland - Lowland
Condition: Unfavourable - Recovering
Reportable features:

Feature name	Feature condition	Date of assessment
Nationally scarce plant - Gentiana pneumonanthe, Marsh Gentian	Unfavourable - Recovering	07/08/2013

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

11 Visual and cultural designations

11.1 World Heritage Sites

Records within 250m	0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m	0

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

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

11.3 National Parks

Records within 250m	0

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

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

11.4 Listed Buildings

Records within 250m	0

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

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

11.5 Conservation Areas

Records within 250m	0

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

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

11.6 Scheduled Ancient Monuments

Records within 250m	0

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

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

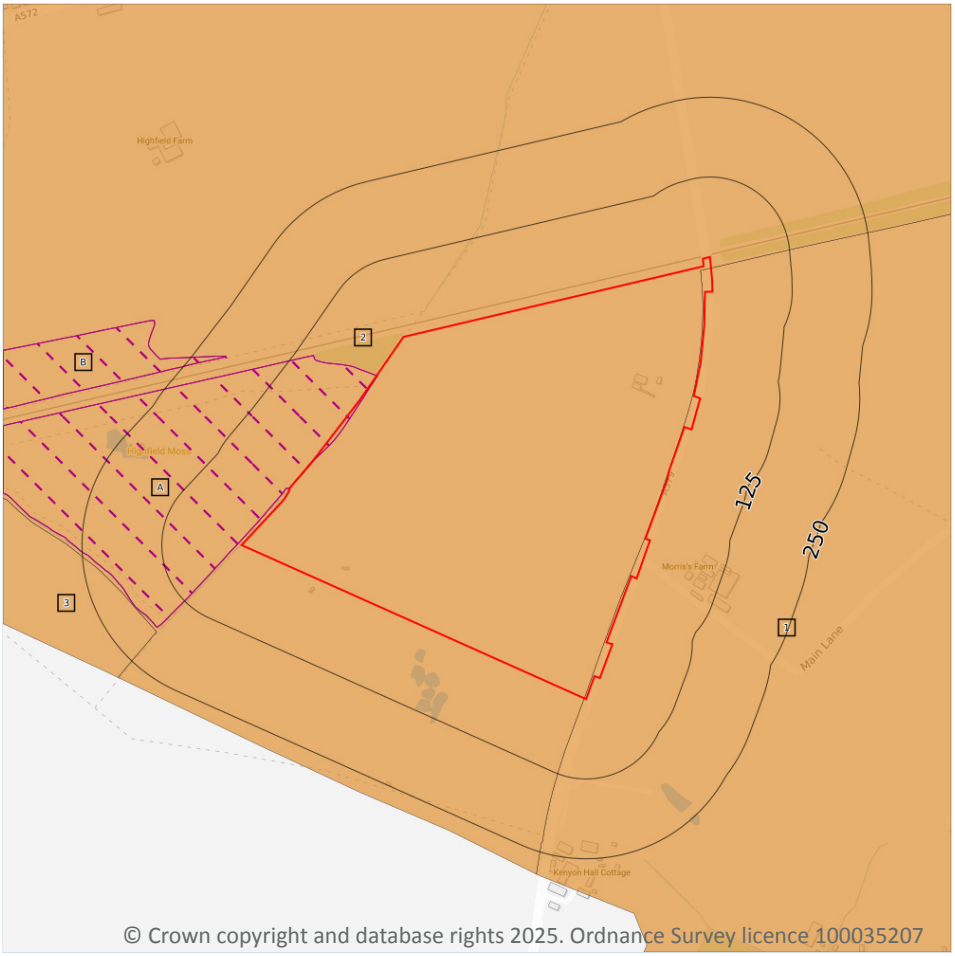
11.7 Registered Parks and Gardens

Records within 250m	0

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

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

12 Agricultural designations



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Site Outline

Search buffers in metres (m)

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

12.1 Agricultural Land Classification

Records within 250m	3

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 67 >**

ID	Location	Classification	Description
1	On site	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.**

ID	Location	Classification	Description
2	**On site**	**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.**
3	190m SW	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

Records within 250m	**4**

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 67 >**

ID	Location	Name	Classification	Other relevant legislation
A	**On site**	**Highfield Moss**	**Section 4 Conclusive Registered Common Land**	**-**
A	**On site**	**Highfield Moss**	**Section 15 Land**	**S.193 - Urban Borough District**
B	206m NW	Highfield Moss	Section 4 Conclusive Registered Common Land	-
B	206m NW	Highfield Moss	Section 15 Land	S.193 - Urban Borough District

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

12.3 Tree Felling Licences

Records within 250m	**0**

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m	**3**

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
1m NW	AG00452286	Higher Level Stewardship	01/05/2013	30/04/2023
184m SW	AG00295740	Entry Level plus Higher Level Stewardship	01/09/2009	31/08/2019
206m NW	AG00452286	Higher Level Stewardship	01/05/2013	30/04/2023

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

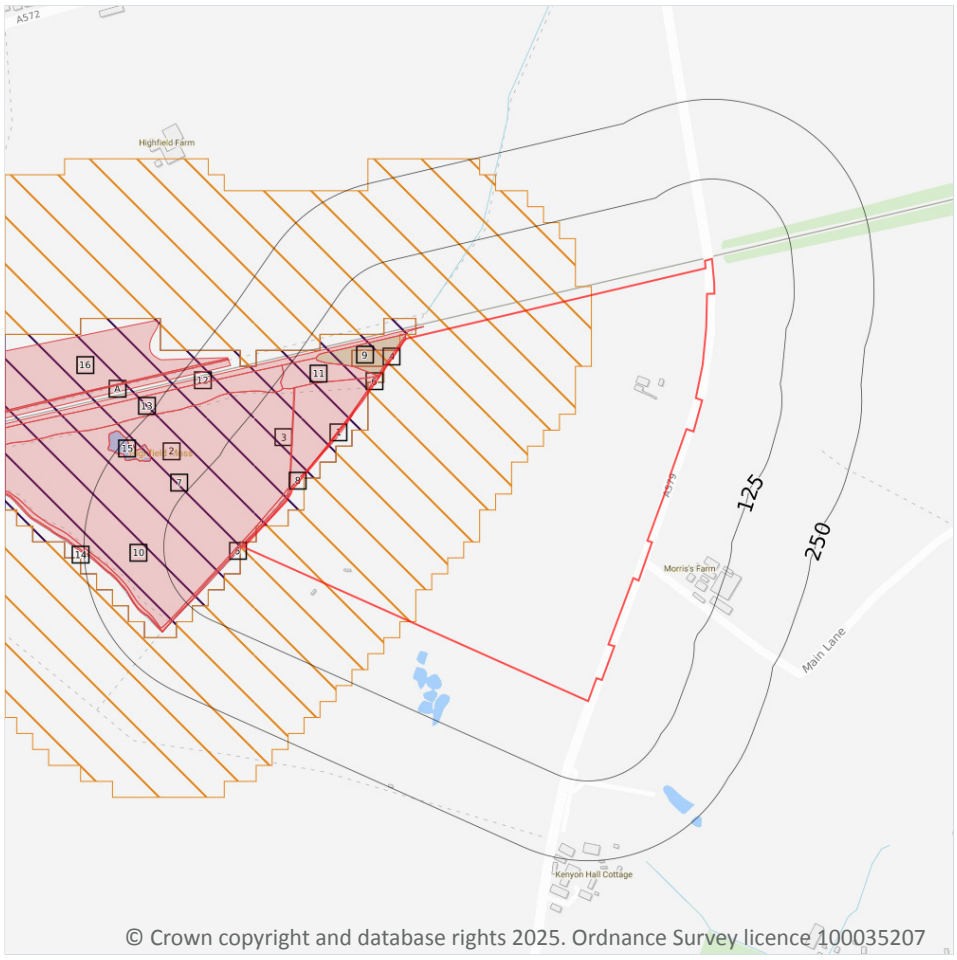
Records within 250m	**4**

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

Location	Reference	Scheme	Start Date	End Date
On site	**1273467**	**Countryside Stewardship (Middle Tier)**	**01/01/2022**	**31/12/2026**
On site	**1273467**	**Countryside Stewardship (Middle Tier)**	**01/01/2022**	**31/12/2026**
28m NE	1255971	Countryside Stewardship (Middle Tier)	01/01/2022	31/12/2026
184m SW	1261919	Countryside Stewardship (Middle Tier)	01/01/2022	31/12/2026

This data is sourced from Natural England.

13 Habitat designations



Site Outline

Search buffers in metres (m)

Priority Habitat Inventory
Open Mosaic Habitat
Limestone Pavement Orders

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

13.1 Priority Habitat Inventory

Records within 250m	16

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 70 >**

ID	Location	Main Habitat	Other habitats
1	**On site**	**Lowland fens**	**Main habitat: LFENS (INV > 50%, ENSIS L1)**
4	**On site**	**Deciduous woodland**	**Main habitat: LFENS (INV > 50%, ENSIS L1); DWOOD (INV > 50%)**
5	1m NW	Lowland fens	Main habitat: LFENS (INV > 50%, ENSIS L1)
6	1m NW	Lowland fens	Main habitat: LFENS (INV > 50%, ENSIS L1); LRBOG (FEP + HLS)

ID	Location	Main Habitat	Other habitats
7	1m NW	Lowland fens	Main habitat: LFENS (INV > 50%, ENSIS L1); LRBOG (FEP + HLS)
8	2m NW	Lowland fens	Main habitat: LFENS (INV > 50%, ENSIS L1)
9	3m NW	Deciduous woodland	Main habitat: LFENS (INV > 50%, ENSIS L1); DWOOD (INV > 50%)
10	4m NW	Lowland fens	Main habitat: LFENS (INV > 50%, ENSIS L1); Additional: LRBOG (FEP 50%)
11	5m NW	Lowland fens	Main habitat: LFENS (INV > 50%, ENSIS L1); DWOOD (INV > 50%); LRBOG (FEP + HLS)
12	7m N	Lowland fens	Main habitat: LFENS (INV > 50%)
13	111m NW	Lowland fens	Main habitat: LFENS (INV > 50%, ENSIS L1); LRBOG (FEP + HLS)
14	183m SW	Lowland fens	Main habitat: LFENS (INV > 50%, ENSIS L1); LRBOG (FEP + HLS)
A	198m NW	Lowland fens	Main habitat: LFENS (INV > 50%)
15	200m NW	Lowland fens	Main habitat: LFENS (INV > 50%, ENSIS L1); LRBOG (FEP + HLS)
16	206m NW	Lowland fens	Main habitat: LFENS (INV > 50%); PMGRP (FEP + HLS)
A	206m NW	Lowland fens	Main habitat: LFENS (INV > 50%); PMGRP (FEP + HLS)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m	**2**

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 70 >**

ID	Location	Type	Habitat
2	**On site**	**Primary Habitat**	**Lowland fens**
3	**On site**	**Network Enhancement Zone 1**	**Not specified**

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m	**0**

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

This data is sourced from Natural England.

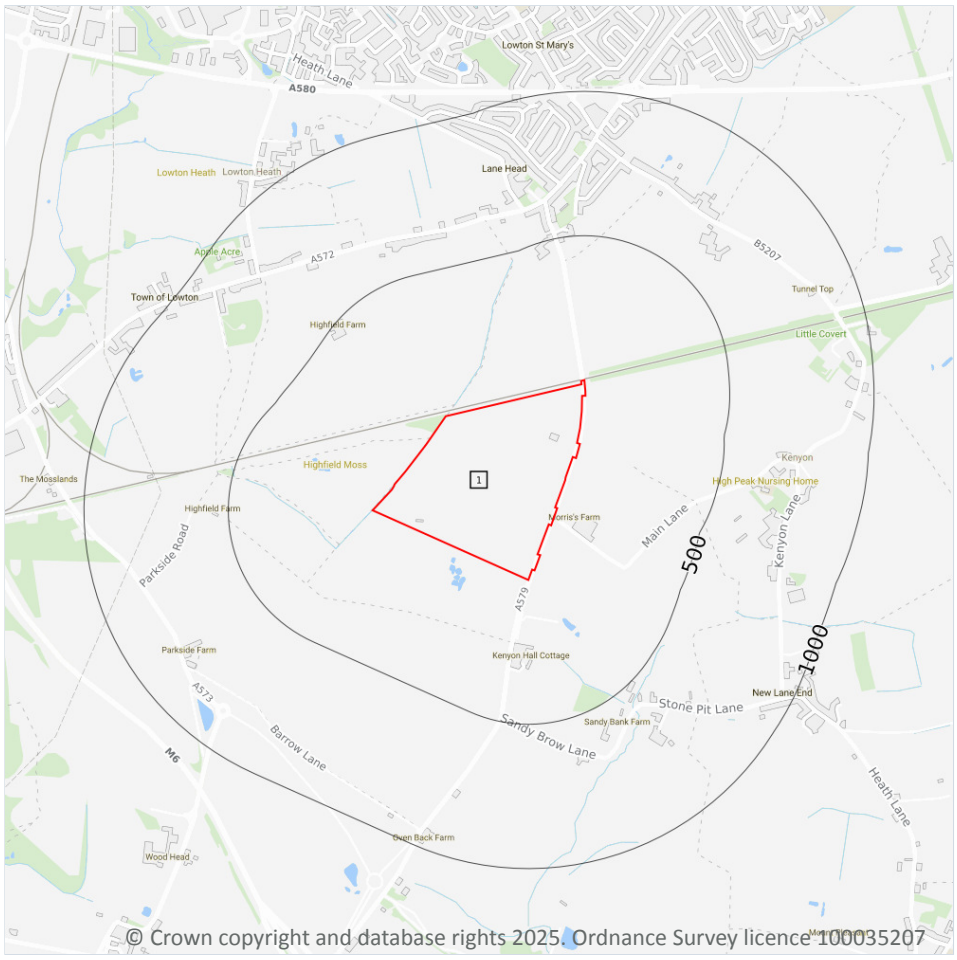
13.4 Limestone Pavement Orders

Records within 250m	0

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

This data is sourced from Natural England.

14 Geology 1:10,000 scale - Availability



Site Outline

Search buffers in metres (m)

Full coverage

Partial coverage

No coverage

14.1 10k Availability

Records within 500m	1

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

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 73 >**

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

This data is sourced from the British Geological Survey.

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

14.2 Artificial and made ground (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial

14.3 Superficial geology (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Bedrock

14.5 Bedrock geology (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

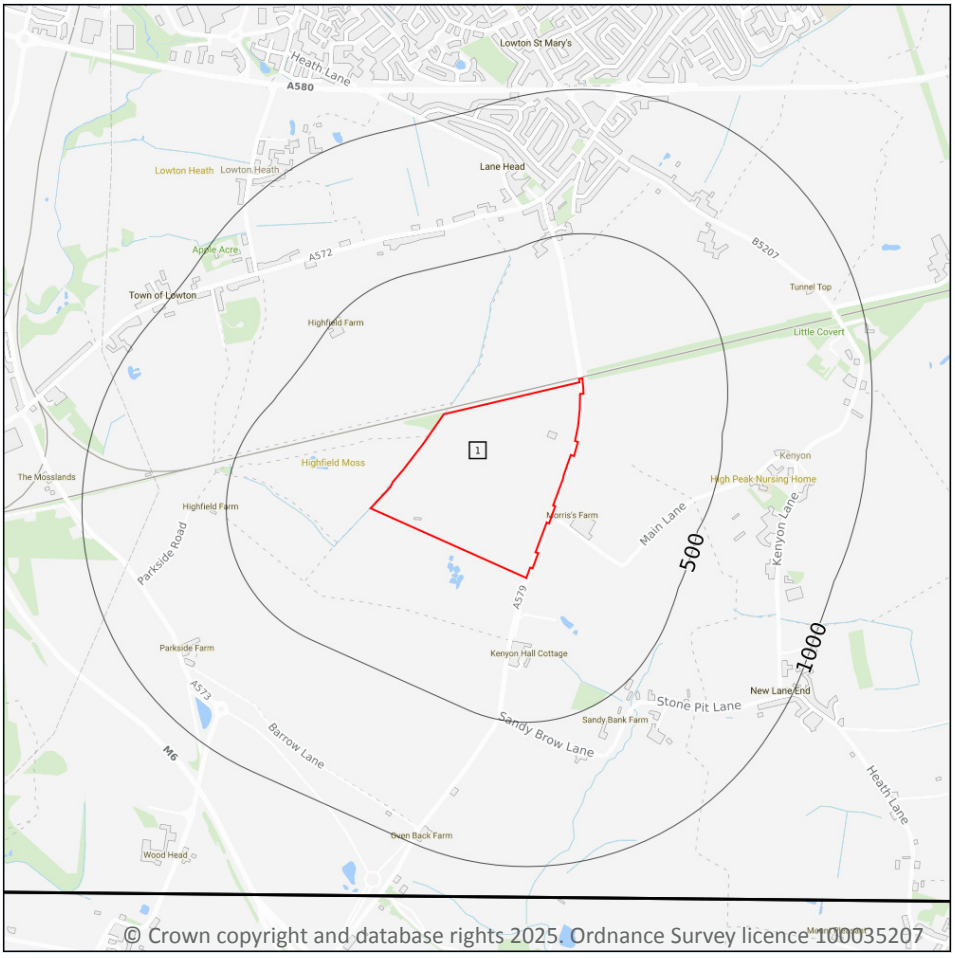
14.6 Bedrock faults and other linear features (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

15 Geology 1:50,000 scale - Availability



Site Outline

Search buffers in metres (m)

Geological map tile

15.1 50k Availability

Records within 500m	1

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

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

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**No coverage**	**Full**	**Full**	**No coverage**	**EW084_wigan_v4**

This data is sourced from the British Geological Survey.

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

15.2 Artificial and made ground (50k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

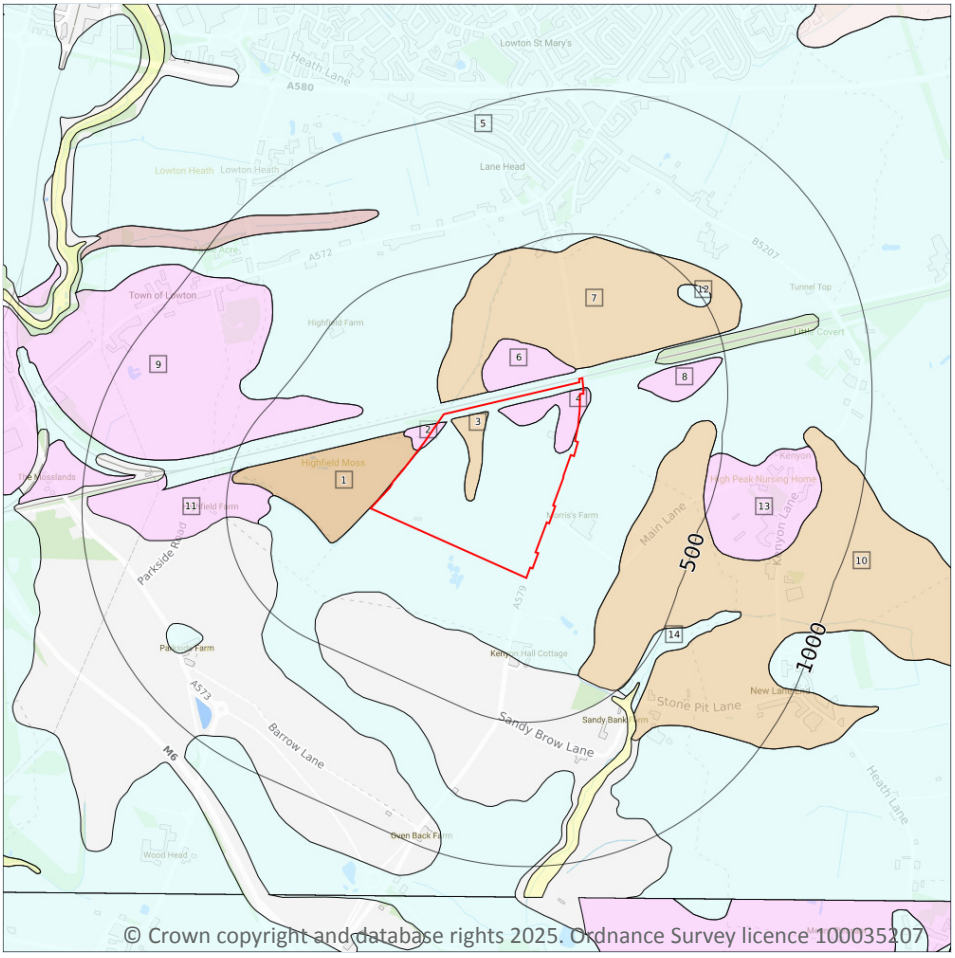
15.3 Artificial ground permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial



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Site Outline

Search buffers in metres (m)

Landslip (50k)

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

15.4 Superficial geology (50k)

Records within 500m **14**

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 79 >**

ID	Location	LEX Code	Description	Rock description
1	On site	PEAT-P	PEAT	PEAT
2	On site	GFICD-XSV	GLACIOFLUVIAL ICE CONTACT DEPOSITS, DEVENSIAN	SAND AND GRAVEL
3	On site	LDE-XCZ	LACUSTRINE DEPOSITS	CLAY AND SILT
4	On site	GFICD-XSV	GLACIOFLUVIAL ICE CONTACT DEPOSITS, DEVENSIAN	SAND AND GRAVEL

ID	Location	LEX Code	Description	Rock description
5	**On site**	**TILLD-DMTN**	**TILL, DEVENSIAN**	**DIAMICTON**
6	29m NW	GFICD-XSV	GLACIOFLUVIAL ICE CONTACT DEPOSITS, DEVENSIAN	SAND AND GRAVEL
7	34m N	LDE-XCZ	LACUSTRINE DEPOSITS	CLAY AND SILT
8	190m E	GFICD-XSV	GLACIOFLUVIAL ICE CONTACT DEPOSITS, DEVENSIAN	SAND AND GRAVEL
9	232m NW	GFICD-XSV	GLACIOFLUVIAL ICE CONTACT DEPOSITS, DEVENSIAN	SAND AND GRAVEL
10	269m E	LDE-XCZ	LACUSTRINE DEPOSITS	CLAY AND SILT
11	340m W	GFICD-XSV	GLACIOFLUVIAL ICE CONTACT DEPOSITS, DEVENSIAN	SAND AND GRAVEL
12	437m NE	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
13	458m E	GFICD-XSV	GLACIOFLUVIAL ICE CONTACT DEPOSITS, DEVENSIAN	SAND AND GRAVEL
14	480m SE	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	**5**

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	**Mixed**	**Low**	**Very Low**
On site	**Intergranular**	**Very High**	**High**
On site	**Mixed**	**High**	**Low**
29m NW	Intergranular	Very High	High
34m N	Mixed	Low	Very Low

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

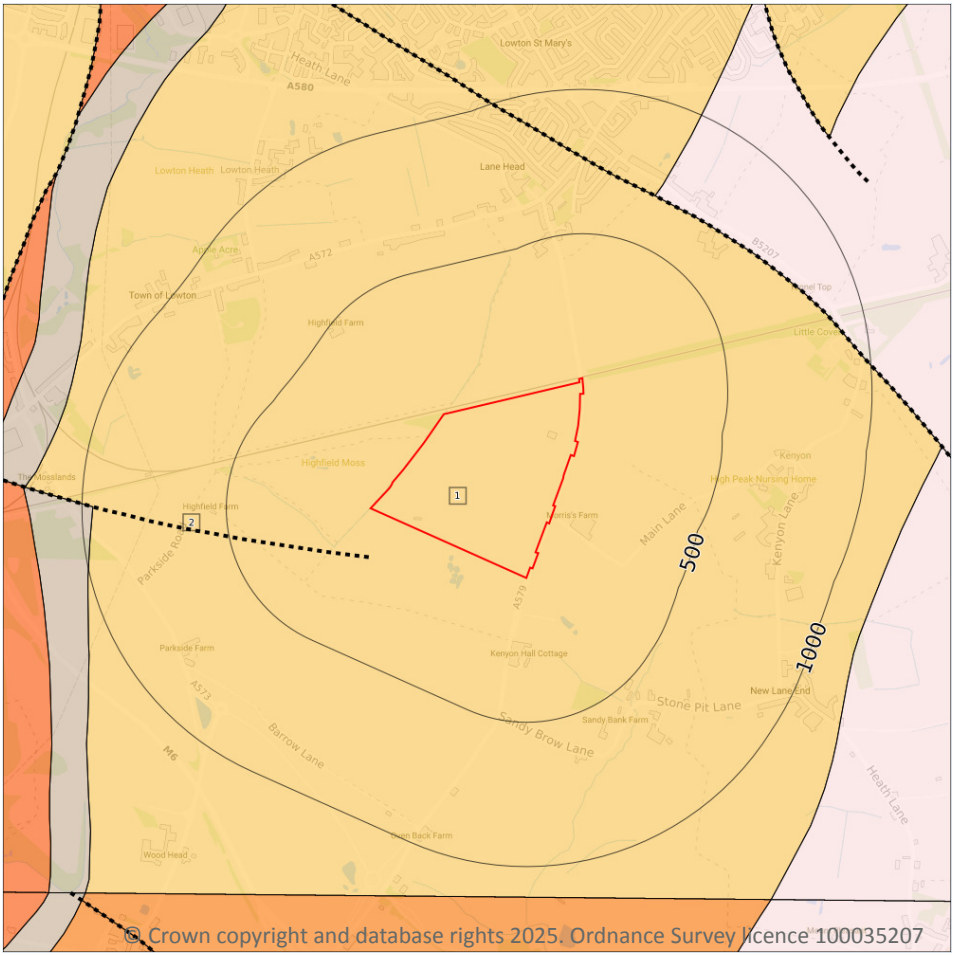
15.7 Landslip permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (50k)

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

15.8 Bedrock geology (50k)

Records within 500m	1

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

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 82 >**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**CHES-SDST**	**CHESTER FORMATION - SANDSTONE**	**OLENEKIAN**

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	**Mixed**	**High**	**Moderate**

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	1

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.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 82 >**

ID	Location	Category	Description
2	153m SW	FAULT	Fault, inferred

This data is sourced from the British Geological Survey.

16 Boreholes



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Site Outline

Search buffers in metres (m)

Confidential

0 - 10m

10 - 30m

30m+

Unknown

16.1 BGS Boreholes

Records within 250m **4**

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.

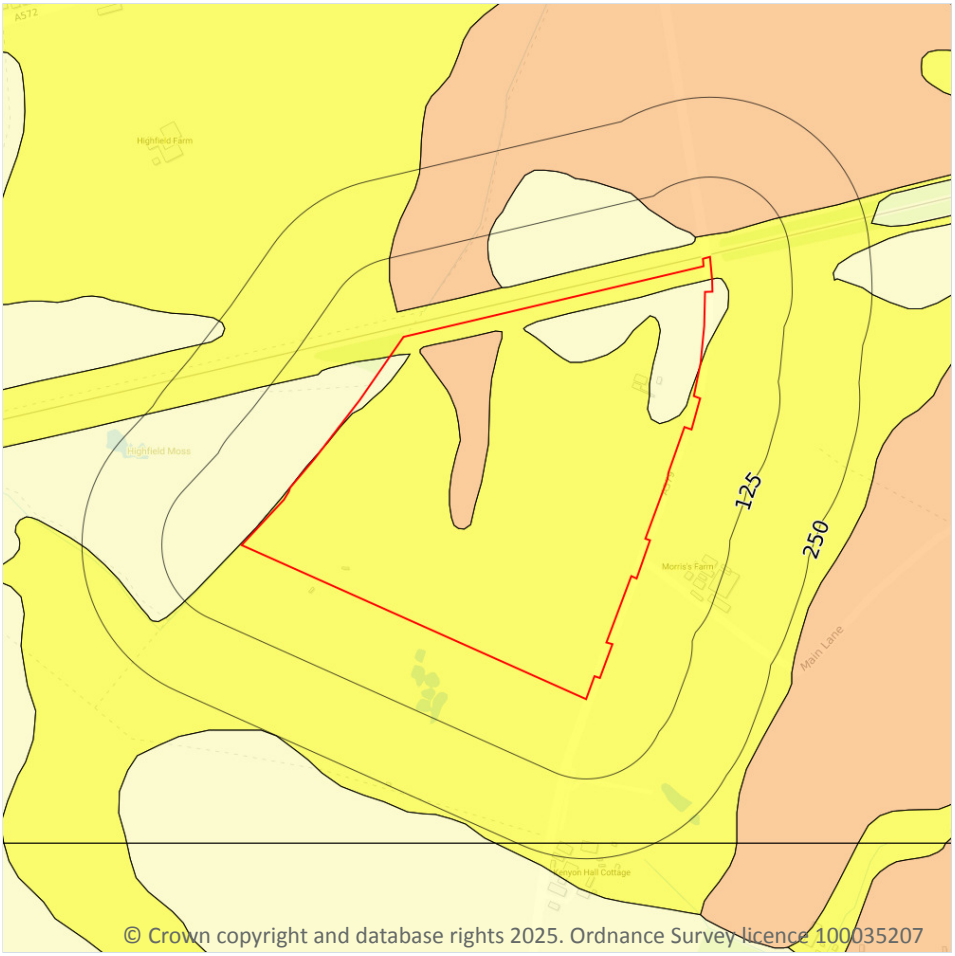
Features are displayed on the Boreholes map on **page 84 >**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	362052 395292	A3/10/5 MORRIS'S FARM	215.19	N	761679 ↗
2	On site	361991 395730	DOLLYS BRIDGE	765.5	N	761783 ↗
3	On site	362000 395690	N.C.B, DOLLY'S BRIDGE	290.0	N	761912 ↗

ID	Location	Grid reference	Name	Length	Confidential	Web link
4	228m S	361970 395010	KENYON HALL	33.83	N	761722 ↗

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



Site Outline

Search buffers in metres (m)

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

17.1 Shrink swell clays

Records within 50m	5

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).

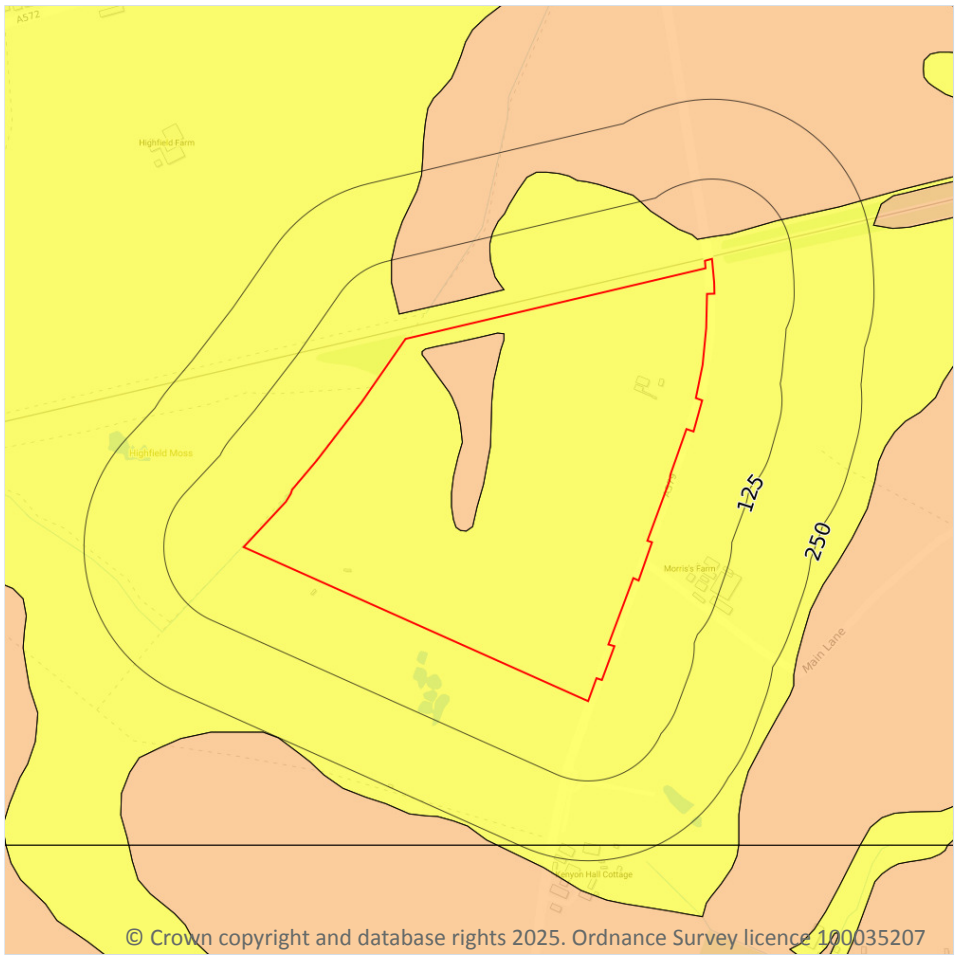
Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 86 >**

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

Location	Hazard rating	Details
29m NW	Negligible	Ground conditions predominantly non-plastic.
34m N	Low	Ground conditions predominantly medium plasticity.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



Site Outline

Search buffers in metres (m)

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

17.2 Running sands

Records within 50m	3

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

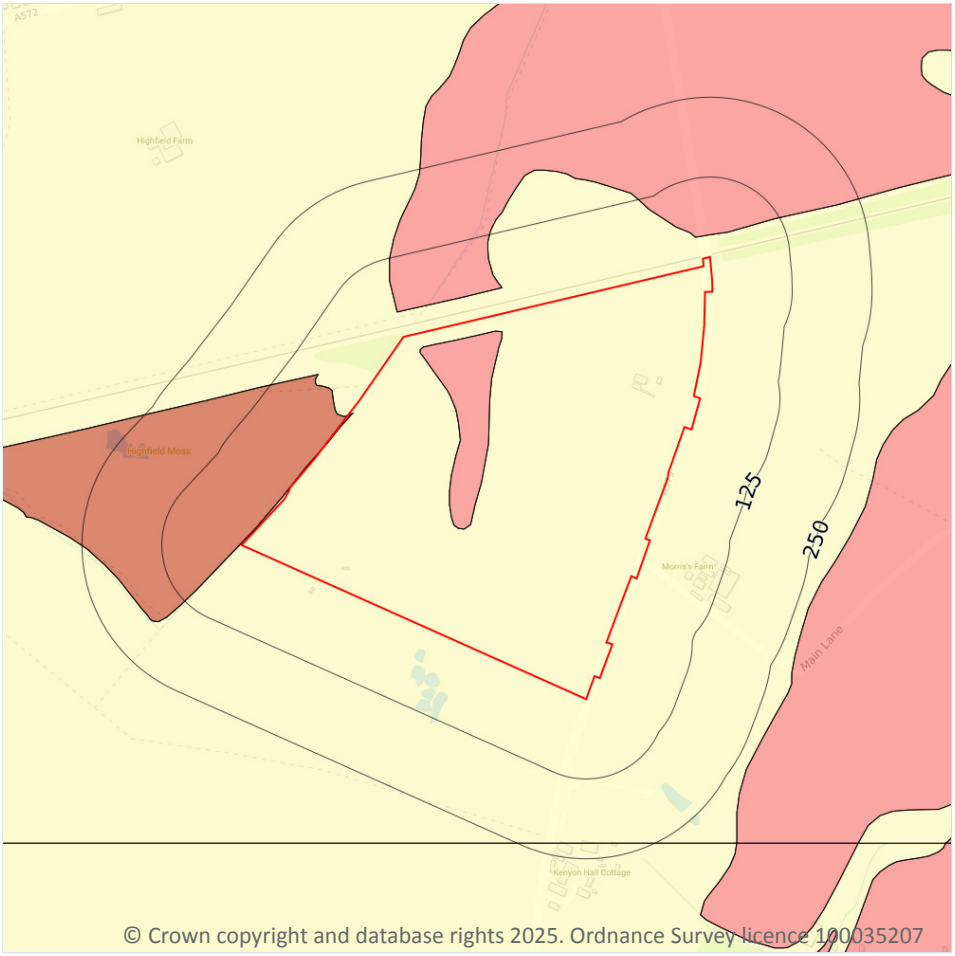
Features are displayed on the Natural ground subsidence - Running sands map on **page 88 >**

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.**
34m N	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



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Site Outline

Search buffers in metres (m)

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

17.3 Compressible deposits

Records within 50m	4

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.

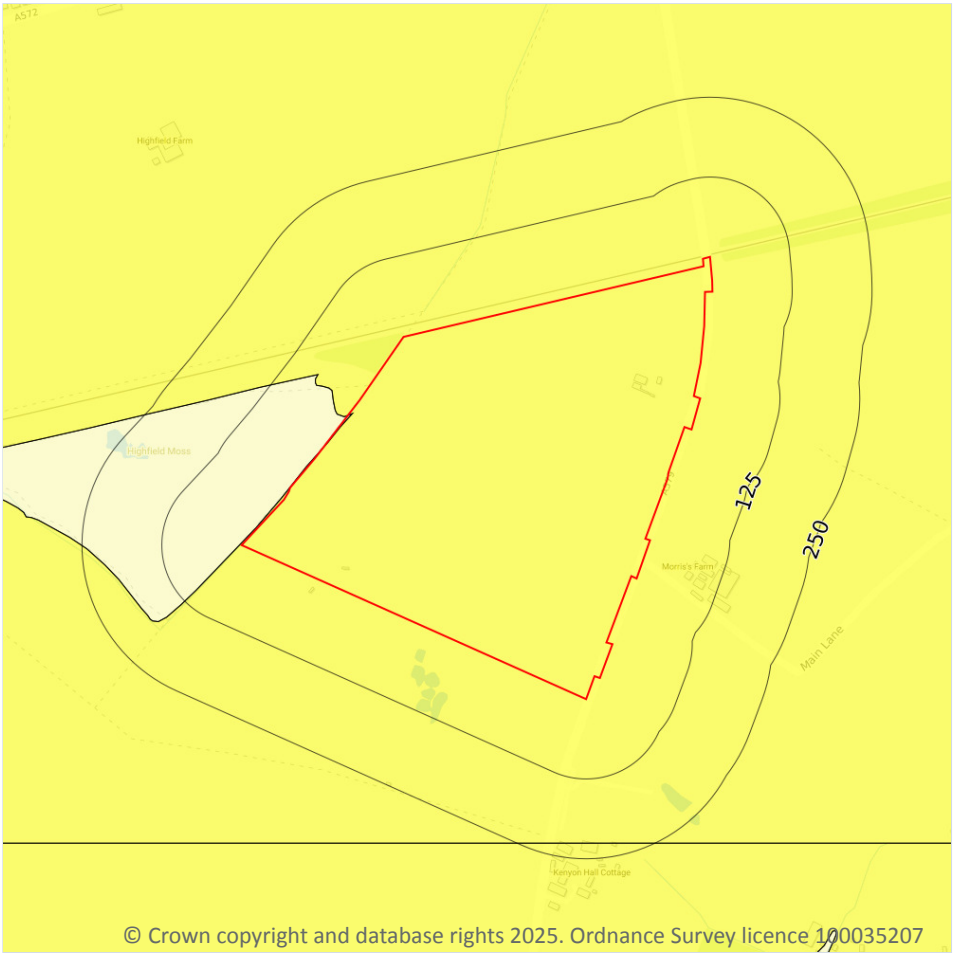
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 90 >**

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

Location	Hazard rating	Details
On site	**High**	**Highly compressible strata present. Significant constraint on land use depending on thickness.**
34m N	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



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Site Outline

Search buffers in metres (m)

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

17.4 Collapsible deposits

Records within 50m	2

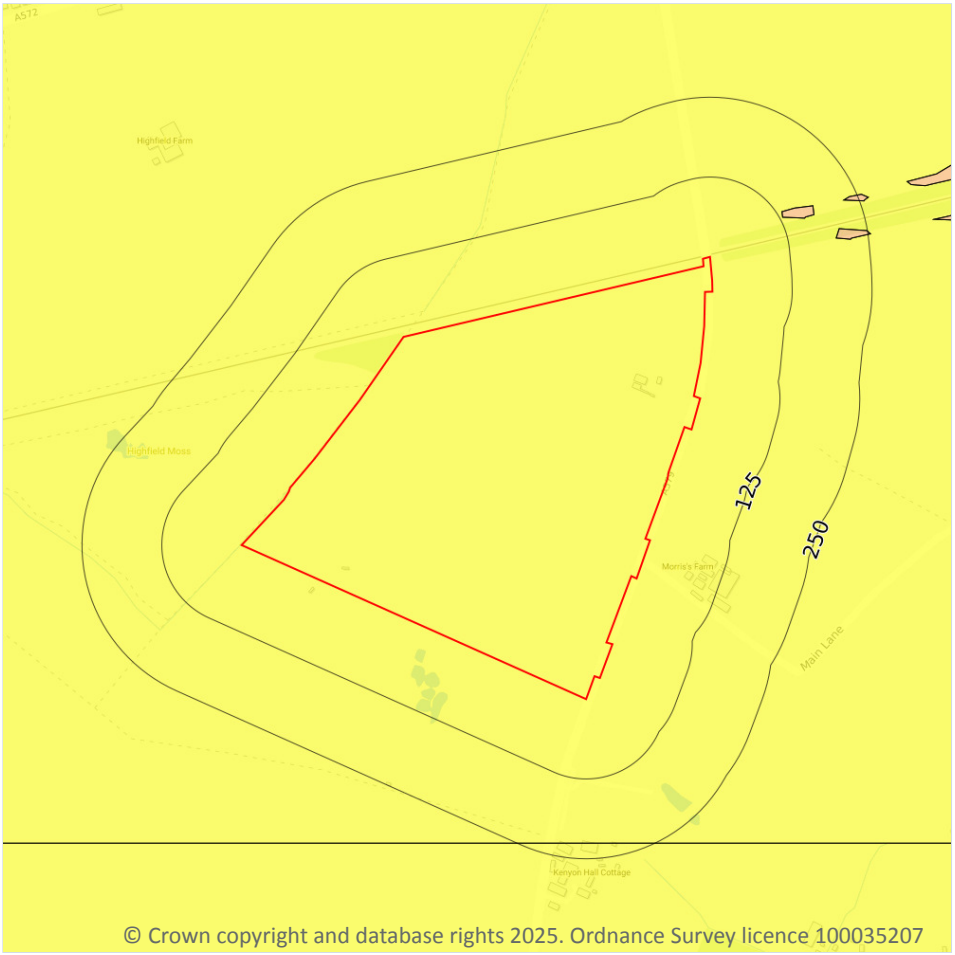
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 92 >**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



Site Outline

Search buffers in metres (m)

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

17.5 Landslides

Records within 50m	1

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

Features are displayed on the Natural ground subsidence - Landslides map on **page 93 >**

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



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Site Outline

Search buffers in metres (m)

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

17.6 Ground dissolution of soluble rocks

Records within 50m	1

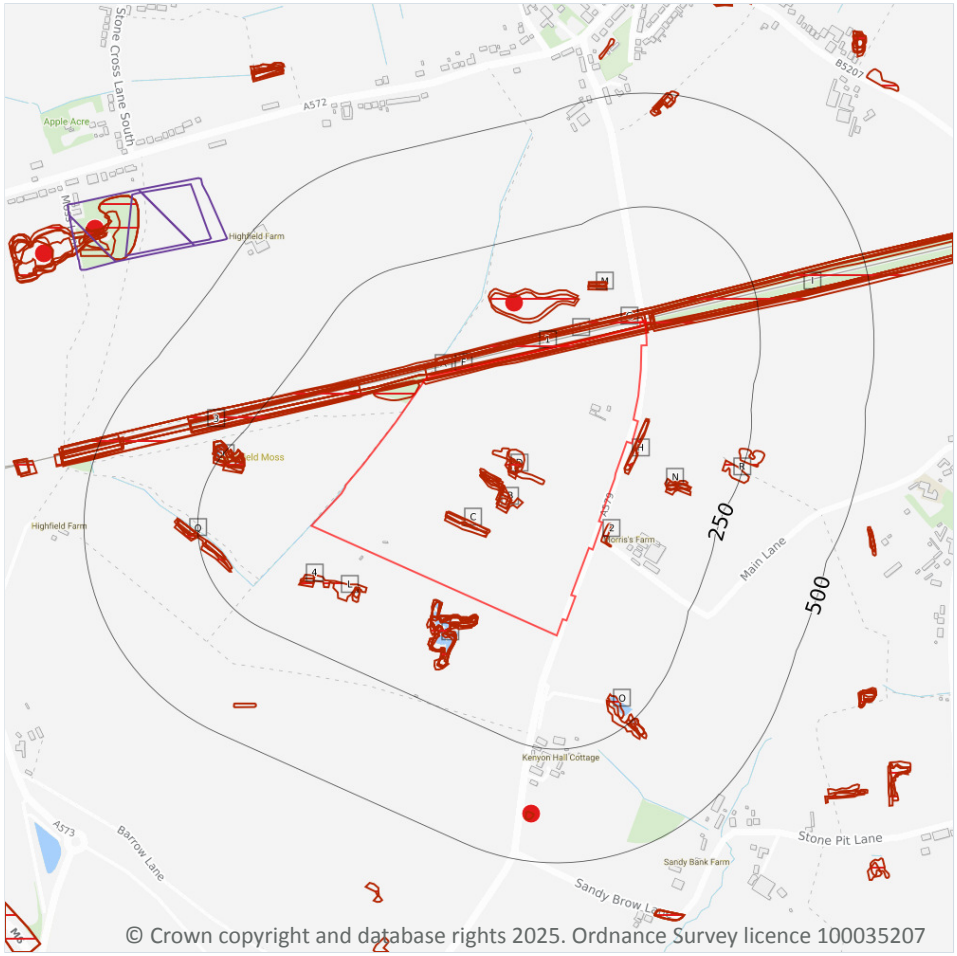
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 94 >**

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

This data is sourced from the British Geological Survey.

18 Mining and ground workings



Site Outline

Search buffers in metres (m)

BritPits

Surface ground workings

Underground workings

Underground mining extents

Historical mineral planning areas

TCA non-coal mining

Non Coal Mining

Sporadic underground mining of restricted extent possible

Localised small scale underground mining possible

Small scale mining possible

Underground mining known or likely within or in close proximity

Underground mining known within or in very close proximity

18.1 BritPits

Records within 500m	2

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 96 >**

ID	Location	Details	Description
K	116m N	Name: Dolly's Bridge Farm Sand Pit Address: Golborne, WIGAN, Lancashire Commodity: Sand & Gravel Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
S	396m S	Name: Kenyon Hall Sand Pit Address: Croft, WARRINGTON, Cheshire Commodity: Sand Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m **83**

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 96 >**

ID	Location	Land Use	Year of mapping	Mapping scale
1	**On site**	**Cuttings**	**1849**	**1:10560**
A	**On site**	**Cuttings**	**1938**	**1:10560**
A	**On site**	**Cuttings**	**1906**	**1:10560**
B	**On site**	**Ponds**	**1938**	**1:10560**
B	**On site**	**Ponds**	**1906**	**1:10560**
B	**On site**	**Ponds**	**1892**	**1:10560**
B	**On site**	**Ponds**	**1892**	**1:10560**
B	**On site**	**Ponds**	**1955**	**1:10560**

ID	Location	Land Use	Year of mapping	Mapping scale
B	**On site**	**Ponds**	**1947**	**1:10560**
B	**On site**	**Pond**	**1849**	**1:10560**
C	**On site**	**Pond**	**1906**	**1:10560**
C	**On site**	**Pond**	**1892**	**1:10560**
C	**On site**	**Pond**	**1849**	**1:10560**
D	**On site**	**Pond**	**1906**	**1:10560**
D	**On site**	**Pond**	**1965**	**1:10560**
D	**On site**	**Ponds**	**1892**	**1:10560**
D	**On site**	**Ponds**	**1849**	**1:10560**
E	**On site**	**Cuttings**	**1992**	**1:10000**
E	**On site**	**Cuttings**	**1972**	**1:10000**
E	**On site**	**Cuttings**	**1984**	**1:10000**
E	**On site**	**Cuttings**	**1965**	**1:10560**
F	**On site**	**Cuttings**	**1892**	**1:10560**
G	**On site**	**Cuttings**	**1955**	**1:10560**
G	**On site**	**Cuttings**	**1947**	**1:10560**
G	**On site**	**Cuttings**	**1925**	**1:10560**
F	1m NW	Sand Pit	1849	1:10560
H	7m SE	Unspecified Pits	1906	1:10560
H	9m E	Ponds	1892	1:10560
2	11m E	Pond	1849	1:10560
I	12m E	Cuttings	1892	1:10560
I	18m E	Cuttings	1938	1:10560
I	18m E	Cuttings	1906	1:10560
I	21m E	Cuttings	1849	1:10560
J	31m SW	Unspecified Pits	1992	1:10000
J	31m SW	Unspecified Pits	1972	1:10000
J	31m SW	Unspecified Pits	1984	1:10000

ID	Location	Land Use	Year of mapping	Mapping scale
J	33m SW	Unspecified Pits	1965	1:10560
J	33m SW	Unspecified Pits	1955	1:10560
J	35m SW	Unspecified Pits	1926	1:10560
J	39m SW	Unspecified Pits	1938	1:10560
J	39m SW	Unspecified Pits	1926	1:10560
J	39m SW	Unspecified Pits	1906	1:10560
J	44m SW	Unspecified Pits	1891	1:10560
K	65m N	Old Sand Pit	1947	1:10560
K	73m N	Old Sand Pit	1955	1:10560
L	75m SW	Pond	1892	1:10560
L	81m SW	Unspecified Pits	1906	1:10560
3	95m NW	Cuttings	1849	1:10560
4	97m SW	Unspecified Pits	1906	1:10560
M	97m N	Pond	1892	1:10560
M	103m N	Pond	1925	1:10560
M	106m N	Pond	1938	1:10560
N	110m E	Ponds	1955	1:10560
N	115m E	Pond	1947	1:10560
N	116m E	Ponds	1892	1:10560
N	116m E	Ponds	1938	1:10560
N	116m E	Ponds	1906	1:10560
O	175m SE	Pond	1849	1:10560
O	180m SE	Ponds	1891	1:10560
P	192m NW	Pond	1892	1:10560
P	194m NW	Pond	1849	1:10560
P	197m NW	Pond	1906	1:10560
P	198m NW	Pond	1925	1:10560
P	198m NW	Pond	1938	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
Q	198m SW	Pond	1849	1:10560
P	198m NW	Pond	1947	1:10560
Q	202m W	Pond	1938	1:10560
Q	202m W	Pond	1906	1:10560
Q	203m SW	Pond	1892	1:10560
P	206m NW	Pond	1992	1:10000
P	206m NW	Pond	1972	1:10000
P	206m NW	Pond	1984	1:10000
P	206m NW	Pond	1965	1:10560
P	206m NW	Pond	1955	1:10560
R	208m E	Ponds	1849	1:10560
R	233m E	Pond	1849	1:10560
O	237m SE	Pond	1849	1:10560
Q	249m W	Pond	1938	1:10560
Q	249m W	Pond	1906	1:10560
O	249m SE	Pond	1992	1:10000
O	249m SE	Pond	1972	1:10000
O	249m SE	Pond	1984	1:10000
O	249m SE	Pond	1965	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records within 1000m	**0**

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

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground mining extents

Records within 500m	0

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

This data is sourced from Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m	0

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

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m	0

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

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site	0

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

This data is sourced from Johnson Poole and Bloomer.

18.8 The Coal Authority non-coal mining

Records within 500m	0

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

Coal Authority and permission should be sought from Groundsure prior to any re-use.

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m	0

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

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m	0

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

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m	0

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

This data is sourced from Groundsure.

18.12 Coal mining

Records on site	1

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

Location	Details
On site	**The site is located within a coal mining area as defined by the Coal Authority. A Consultants Coal Mining Report is recommended to further assess coal mining issues at the site. This can be ordered directly through Groundsure or your preferred search provider.**

This data is sourced from the Coal Authority.

18.13 Brine areas

Records on site	0

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

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

18.14 Gypsum areas

Records on site	0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.15 Tin mining

Records on site	0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.16 Clay mining

Records on site	0

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

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

19 Ground cavities and sinkholes

19.1 Natural cavities

Records within 500m	0

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

This data is sourced from Stantec UK Ltd.

19.2 Mining cavities

Records within 1000m	0

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

This data is sourced from Stantec UK Ltd.

19.3 Reported recent incidents

Records within 500m	0

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

This data is sourced from Groundsure.

19.4 Historical incidents

Records within 500m	0

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

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

This data is sourced from Groundsure.

20 Radon



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Site Outline

Search buffers in metres (m)

- Greater than 30%
- Between 10% and 30%
- Between 5% and 10%
- Between 3% and 5%
- Between 1% and 3%
- Less than 1%

20.1 Radon

Records on site	1

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

Features are displayed on the Radon map on **page 106 >**

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

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

21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m	18

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	60 - 80 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	60 - 80 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
5m W	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	60 - 80 mg/kg
22m SW	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
24m SW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
26m NW	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	60 - 80 mg/kg

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m	**0**

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

This data is sourced from the British Geological Survey.

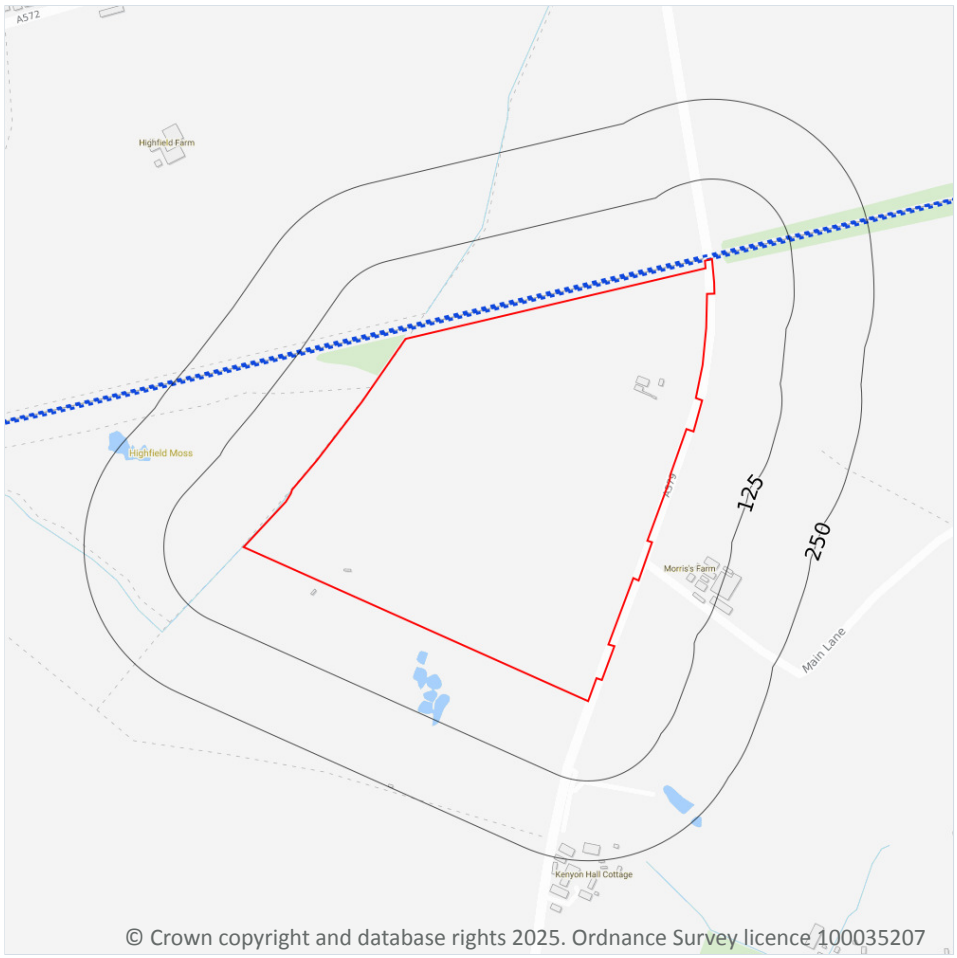
21.3 BGS Measured Urban Soil Chemistry

Records within 50m	**0**

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

This data is sourced from the British Geological Survey.

22 Railway infrastructure and projects



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Site Outline

Search buffers in metres (m)

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

22.1 Underground railways (London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m	0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m	0

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

This data is sourced from Ordnance Survey/Groundsure.

22.5 Royal Mail tunnels

Records within 250m	0

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

This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m	0

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

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m	4

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

Features are displayed on the Railway infrastructure and projects map on **page 110 >**

Location	Name	Type
On site	**Liverpool to Manchester Lines**	**rail**
4m NW	Not given	Multi Track
5m NE	Not given	Multi Track
7m N	Liverpool to Manchester Lines	rail

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 2

Records within 500m	**0**

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

This data is sourced from publicly available information by Groundsure.

22.9 HS2

Records within 500m	**0**

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

This data is sourced from HS2 ltd.

Data providers

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

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Appendix 3: Historical Mapping



Groundsure INSIGHTS

Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_1250_1_2
Grid Ref: 359378, 394310

Map Name: National Grid

Map date: **1972**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1972 Revised 1972 Edition N/A Copyright 1972 Levelled 1963	Surveyed 1972 Revised 1972 Edition N/A Copyright 1972 Levelled 1963

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Site Details:

Parkside East, Junction 22 M6,
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Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_1250_1_2
Grid Ref: 359378, 394310

Map Name: National Grid

Map date: **1990-1993**

Scale: 1:1,250

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Report Ref: GS-OCF-42S-9GF-7DY_1250_1_3
Grid Ref: 359378, 394810

Map Name: National Grid

Map date: **1972**

Scale: 1:1,250

Printed at: 1:2,000

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Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_1250_1_3
Grid Ref: 359378, 394810

Map Name: National Grid

Map date: **1990-1993**

Scale: 1:1,250

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Site Details:

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Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_1250_1_3
Grid Ref: 359378, 394810

Map Name: National Grid

Map date: **1990-1995**

Scale: 1:1,250

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Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_1250_1_3
Grid Ref: 359378, 394810

Map Name: National Grid

Map date: **1992-1995**

Scale: 1:1,250

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Site Details:

Parkside East, Junction 22 M6,
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Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_1250_1_4
Grid Ref: 359378, 395310

Map Name: National Grid

Map date: **1972**

Scale: 1:1,250

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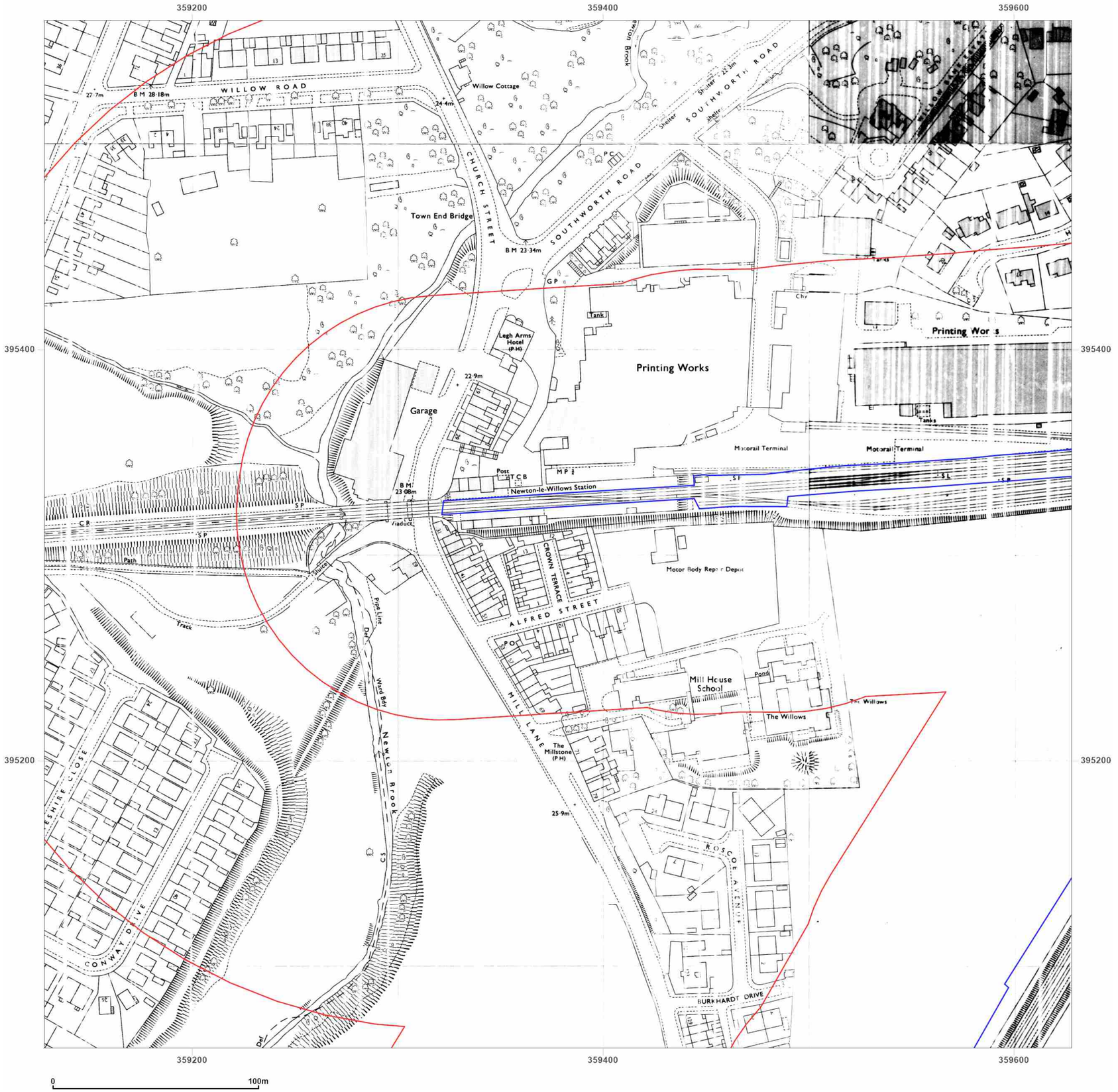

Groundsure INSIGHTS

Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_1250_1_4
Grid Ref: 359378, 395310

Map Name: National Grid

Map date: **1973**

Scale: 1:1,250

Printed at: 1:2,000

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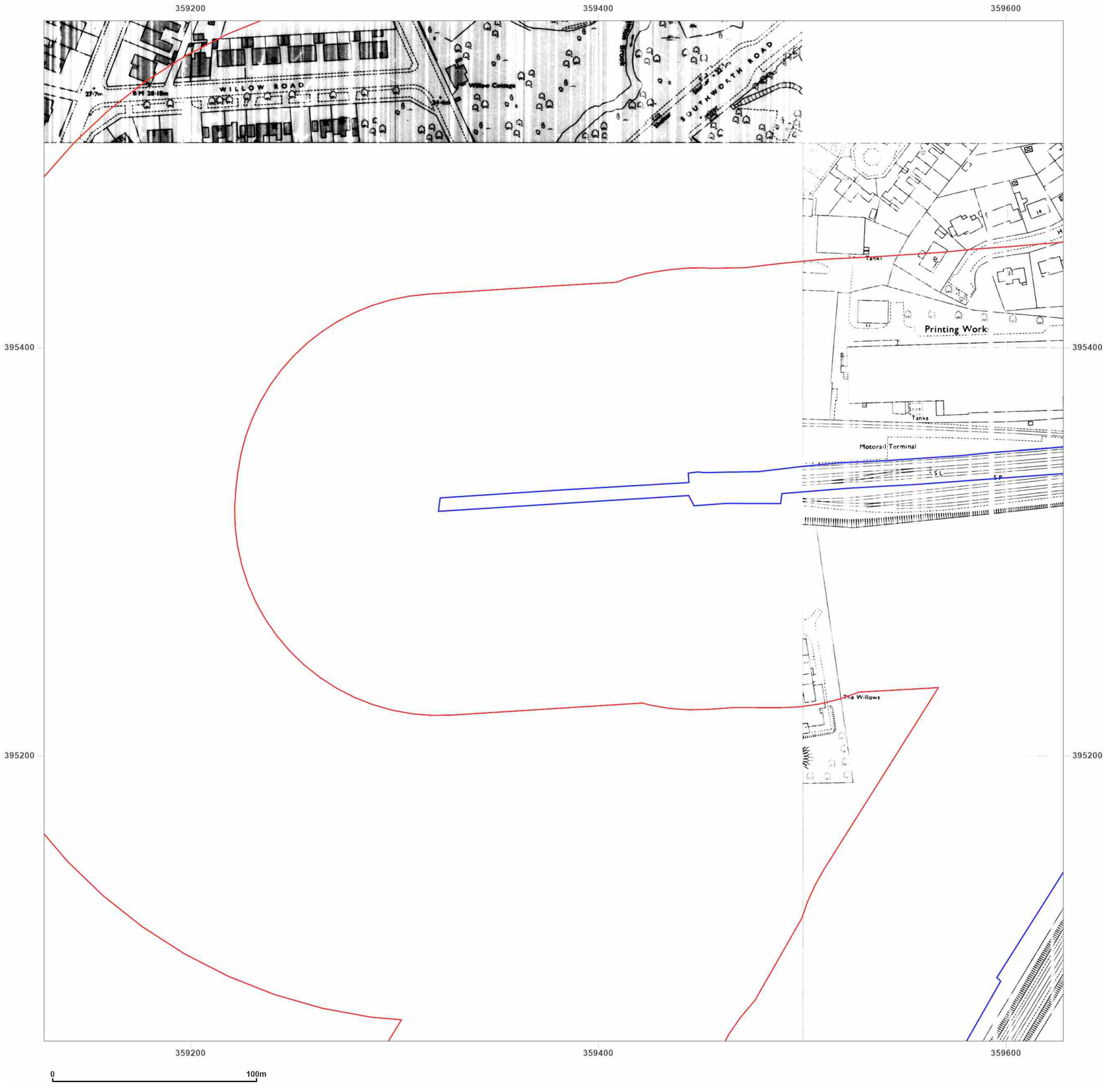

Groundsure INSIGHTS

Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_1250_1_4
Grid Ref: 359378, 395310

Map Name: National Grid

Map date: **1973**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed N/A
Revised N/A
Edition N/A
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St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_1250_1_4
Grid Ref: 359378, 395310

Map Name: National Grid

Map date: **1984**

Scale: 1:1,250

Printed at: 1:2,000

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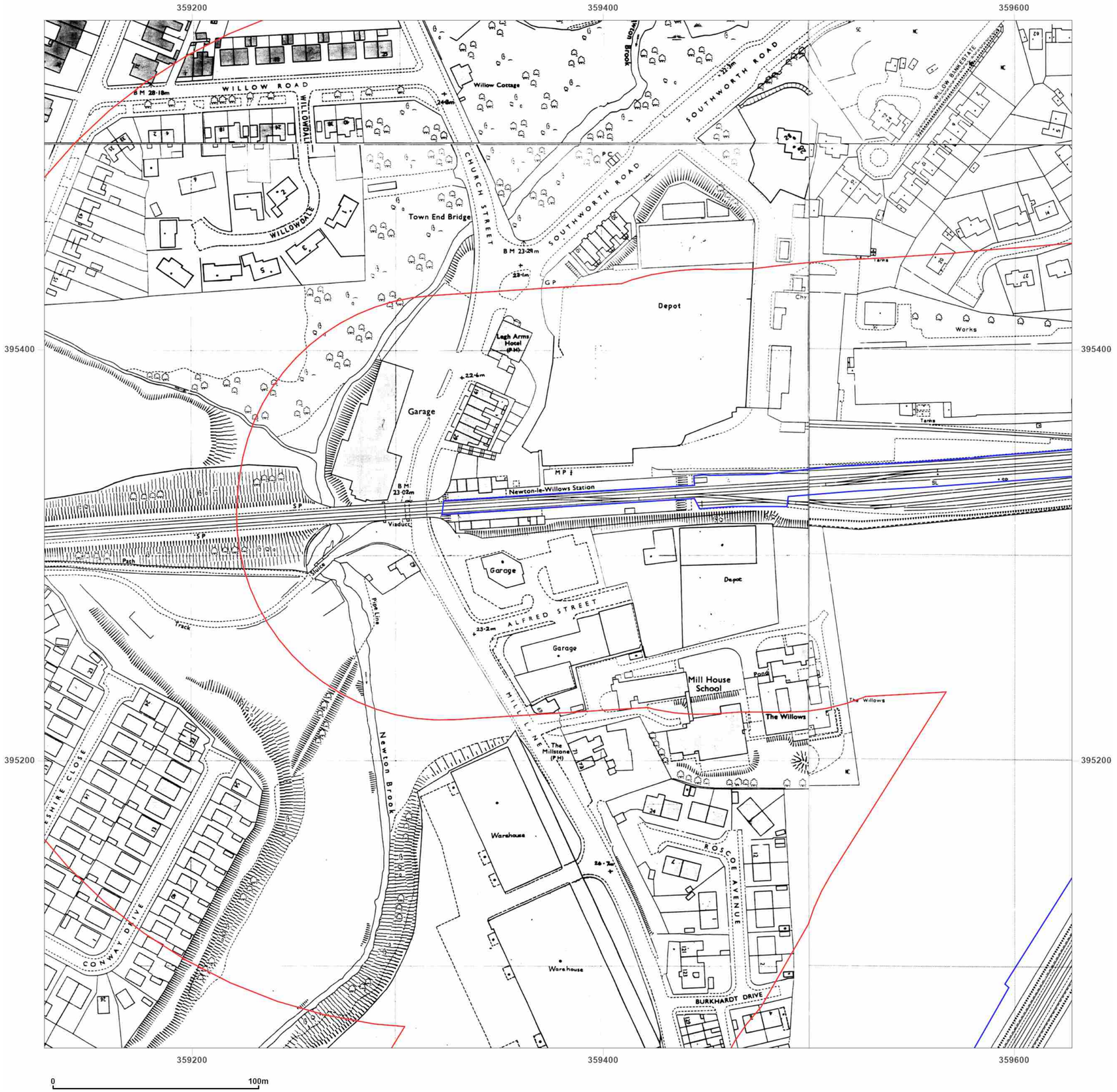

Groundsure INSIGHTS

Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_1250_1_4
Grid Ref: 359378, 395310

Map Name: National Grid

Map date: **1990-1992**

Scale: 1:1,250

Printed at: 1:2,000

N
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Surveyed 1983 Revised 1990 Edition N/A Copyright 1990 Levelled 1983	Surveyed N/A Revised N/A Edition N/A Copyright 1992 Levelled N/A
Surveyed 1983 Revised 1990 Edition N/A Copyright 1990 Levelled 1983	Surveyed N/A Revised N/A Edition N/A Copyright 1992 Levelled N/A

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Groundsure INSIGHTS

Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_1250_1_4
Grid Ref: 359378, 395310

Map Name: National Grid

Map date: **1990-1994**

Scale: 1:1,250

Printed at: 1:2,000

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Revised 1990
Edition N/A
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Surveyed N/A Revised N/A Edition N/A Copyright 1990 Levelled 1983	Surveyed N/A Revised N/A Edition N/A Copyright 1994 Levelled N/A

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Groundsure INSIGHTS

Site Details:

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Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_1250_1_4
Grid Ref: 359378, 395310

Map Name: National Grid

Map date: **1990-1994**

Scale: 1:1,250

Printed at: 1:2,000

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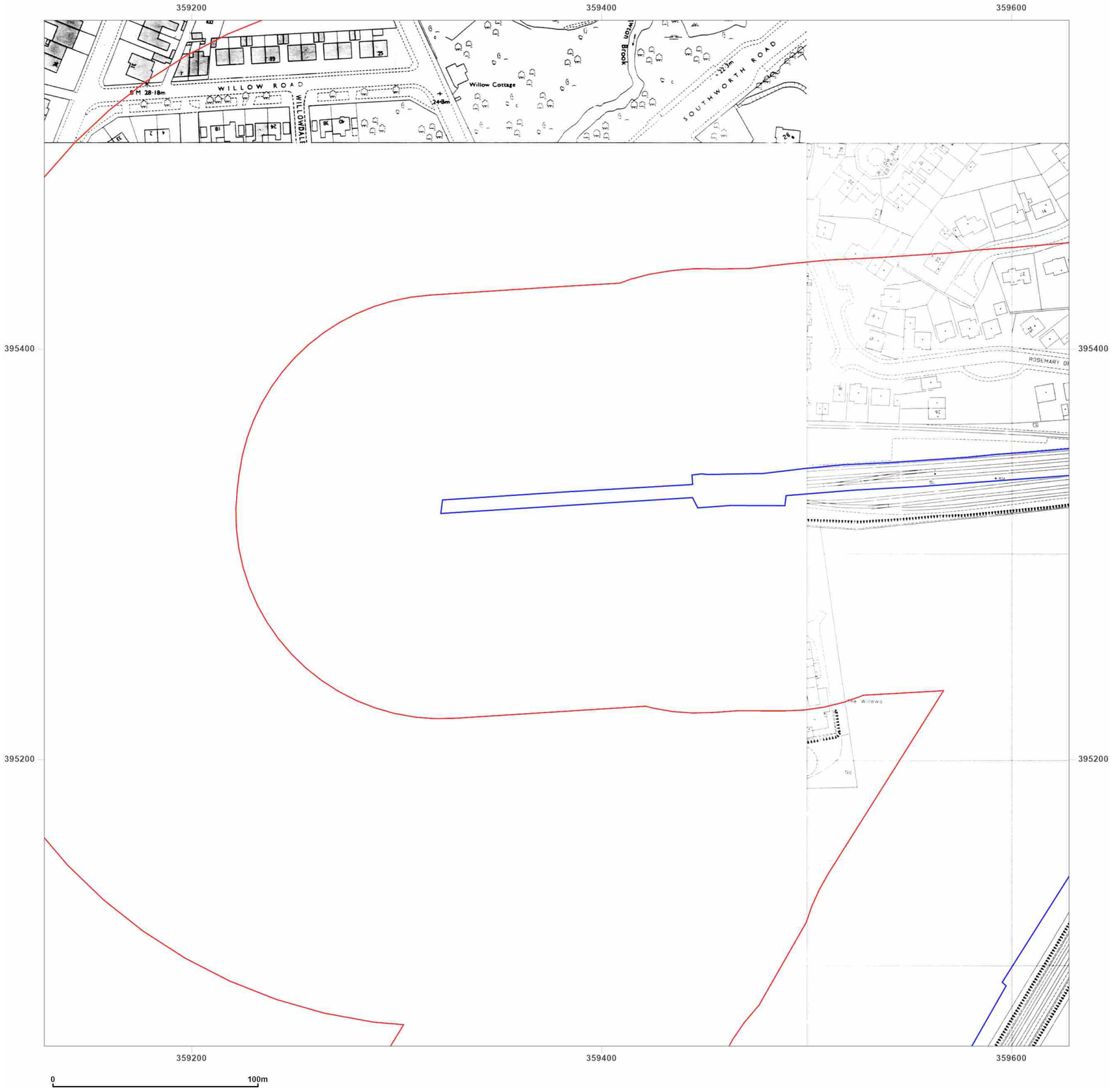

Groundsure INSIGHTS

Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_1250_1_4
Grid Ref: 359378, 395310

Map Name: National Grid

Map date: **1990-1995**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1983
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Surveyed N/A
Revised N/A
Edition N/A
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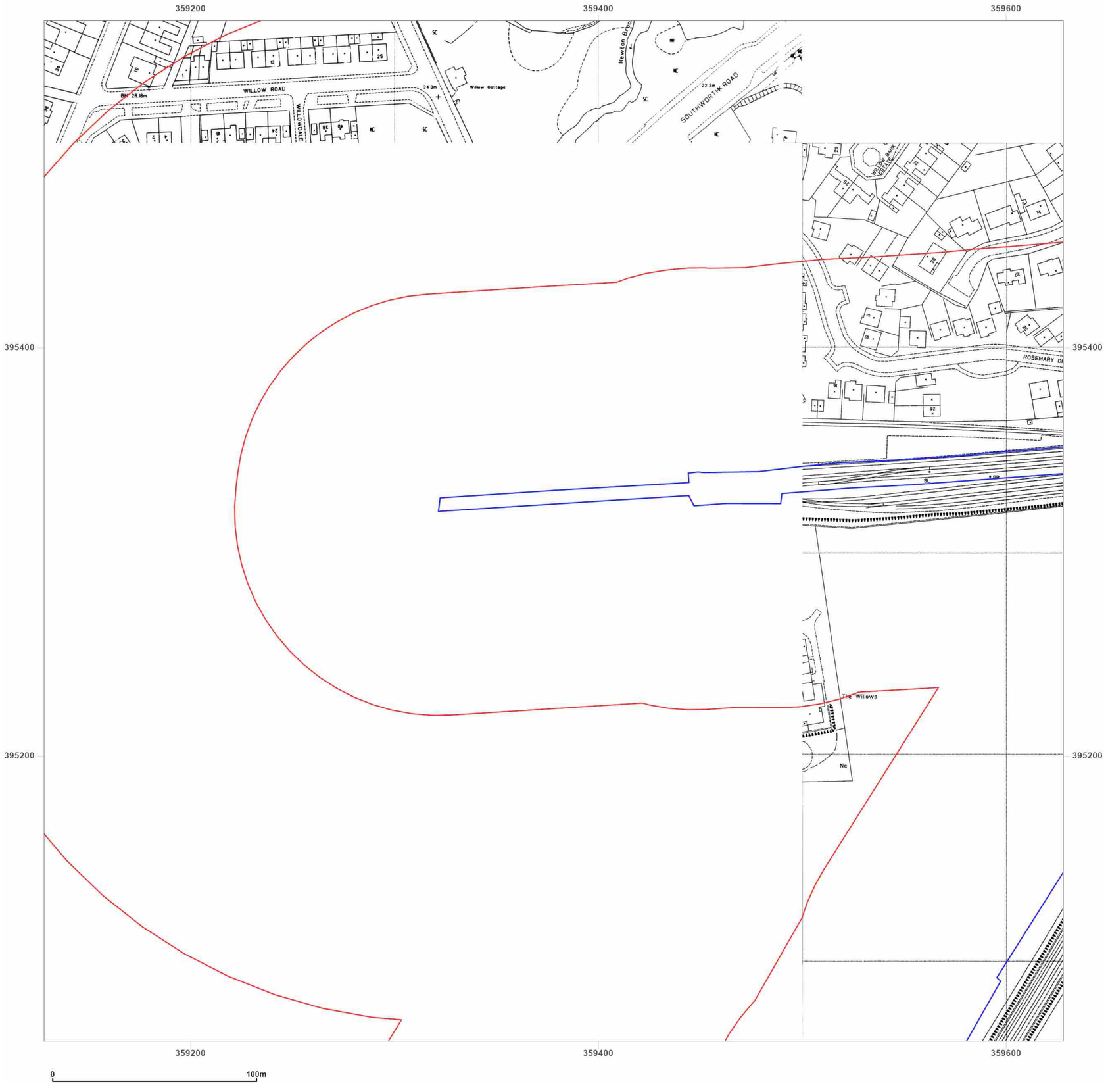

Groundsure INSIGHTS

Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_1250_1_4
Grid Ref: 359378, 395310

Map Name: National Grid

Map date: **1992-1995**

Scale: 1:1,250

Printed at: 1:2,000

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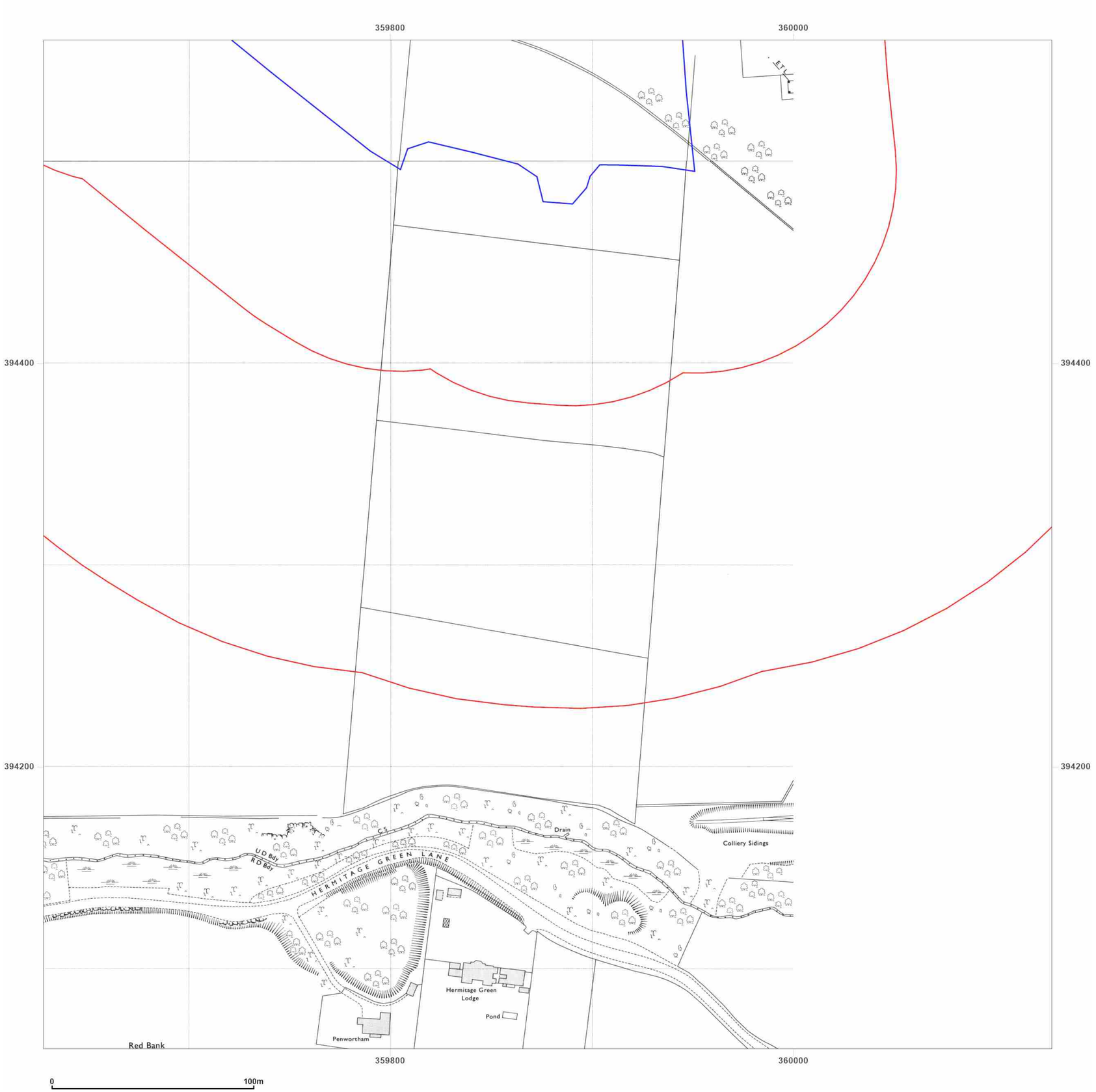

Groundsure INSIGHTS

Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_1250_2_2
Grid Ref: 359878, 394310

Map Name: National Grid

Map date: **1972**

Scale: 1:1,250

Printed at: 1:2,000

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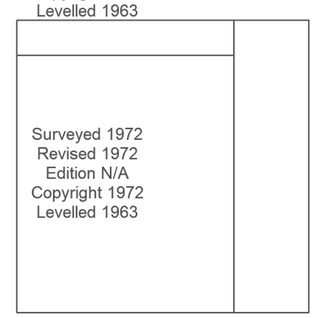
Surveyed 1972
Revised 1972
Edition N/A
Copyright 1972
Levelled 1963



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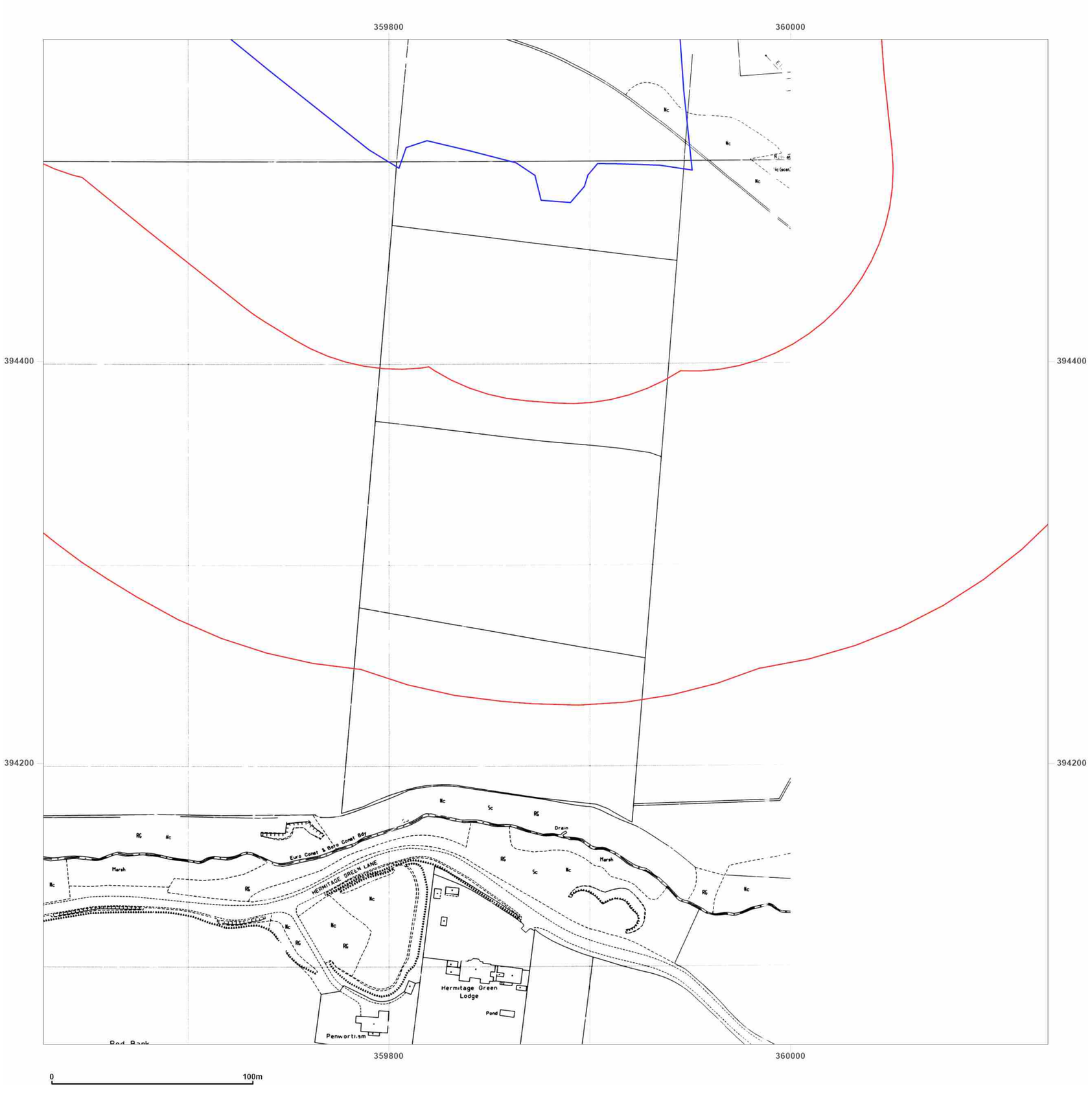

Groundsure INSIGHTS

Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_1250_2_2
Grid Ref: 359878, 394310

Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

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Groundsure INSIGHTS

Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_1250_2_3
Grid Ref: 359878, 394810

Map Name: National Grid

Map date: **1972**

Scale: 1:1,250

Printed at: 1:2,000

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Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_1250_2_3
Grid Ref: 359878, 394810

Map Name: National Grid

Map date: **1992-1993**

Scale: 1:1,250

Printed at: 1:2,000

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W E
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Surveyed N/A
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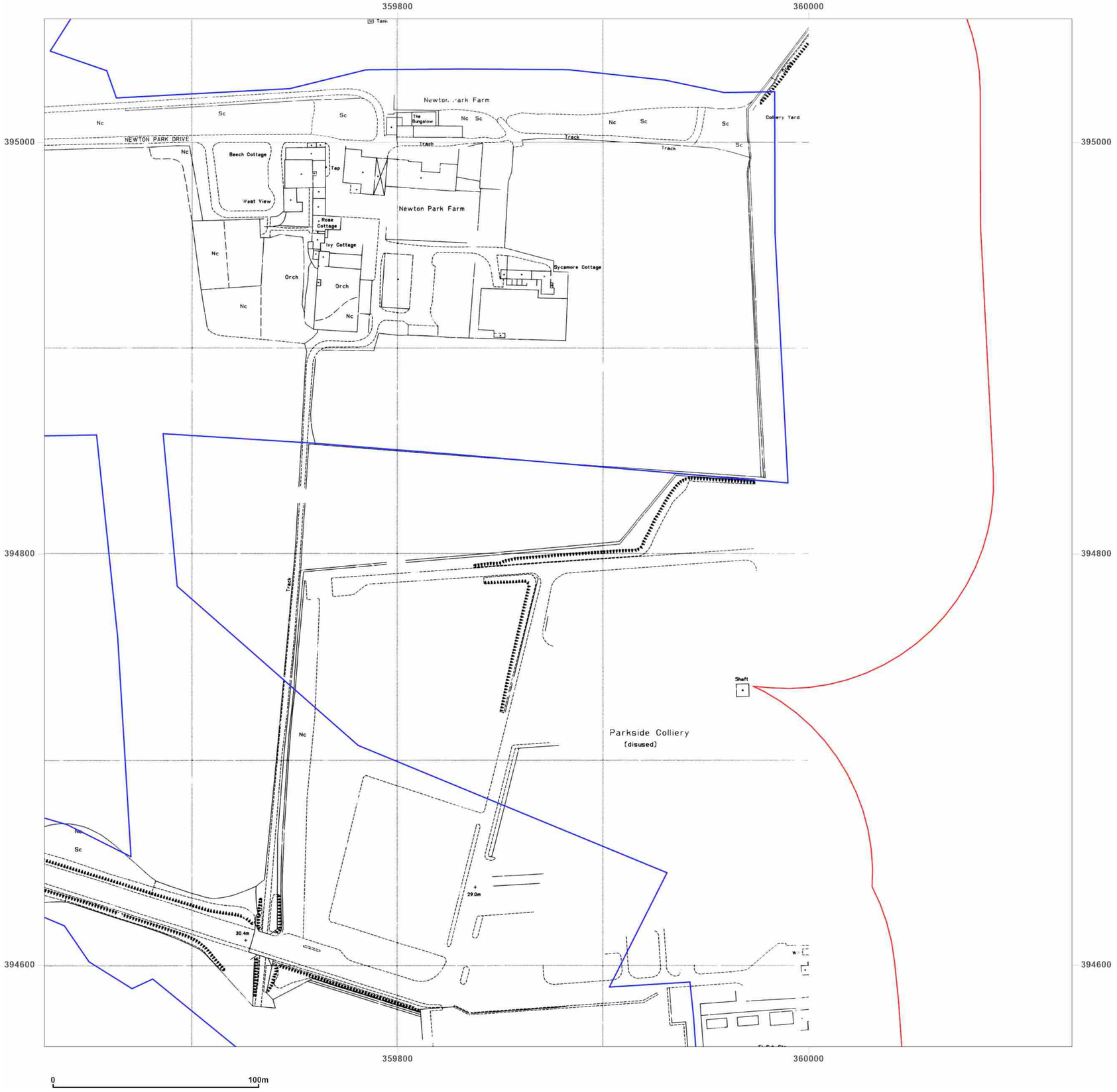

Groundsure INSIGHTS

Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_1250_2_3
Grid Ref: 359878, 394810

Map Name: National Grid

Map date: **1994-1995**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed N/A
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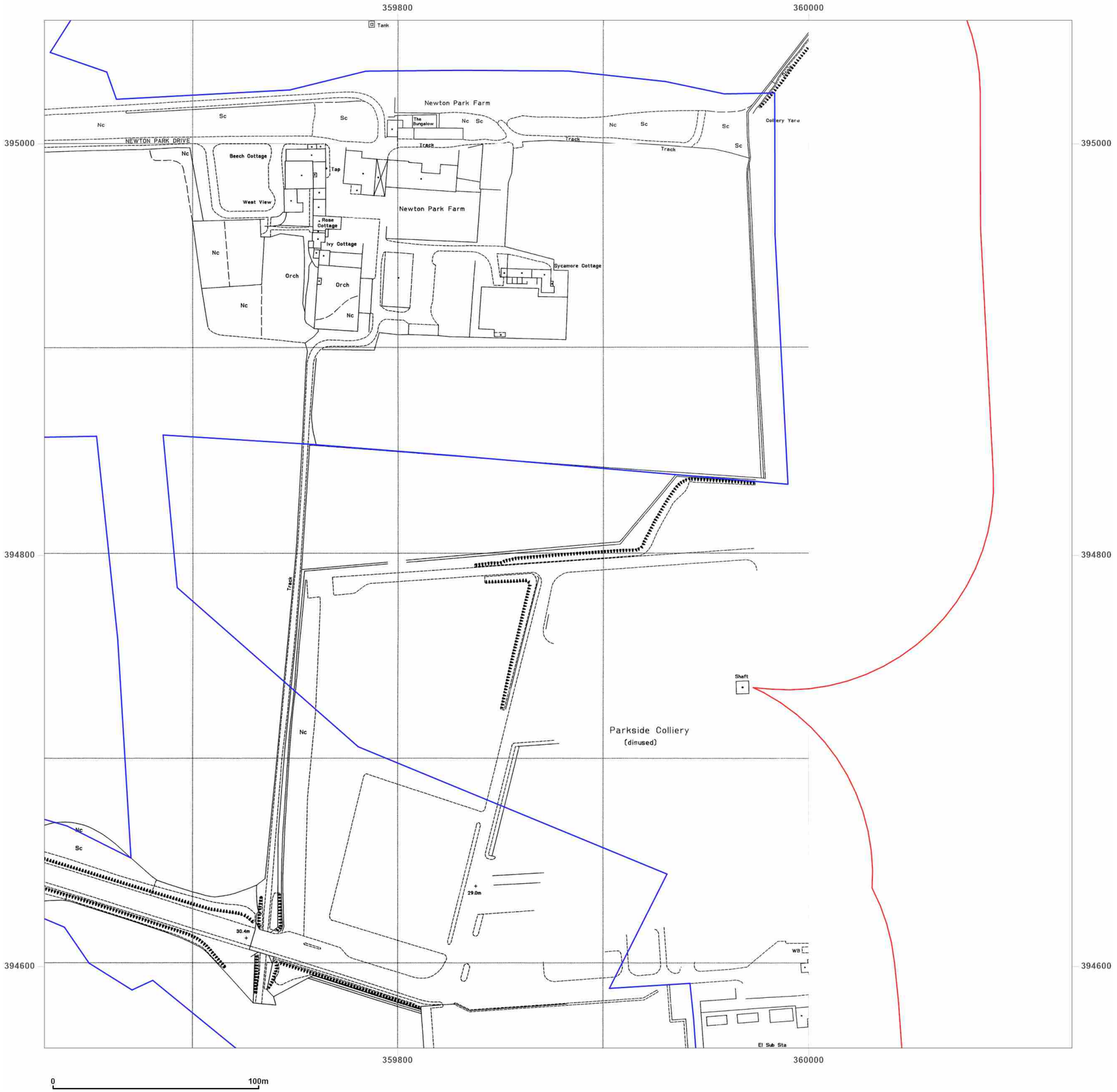

Groundsure INSIGHTS

Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_1250_2_3
Grid Ref: 359878, 394810

Map Name: National Grid

Map date: **1994-1995**

Scale: 1:1,250

Printed at: 1:2,000

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Revised 1994
Edition N/A
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Groundsure INSIGHTS

Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_1250_2_4
Grid Ref: 359878, 395310

Map Name: National Grid

Map date: **1972**

Scale: 1:1,250

Printed at: 1:2,000

N
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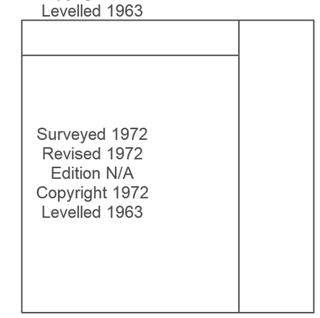
Surveyed 1972
Revised 1972
Edition N/A
Copyright 1972
Levelled 1963



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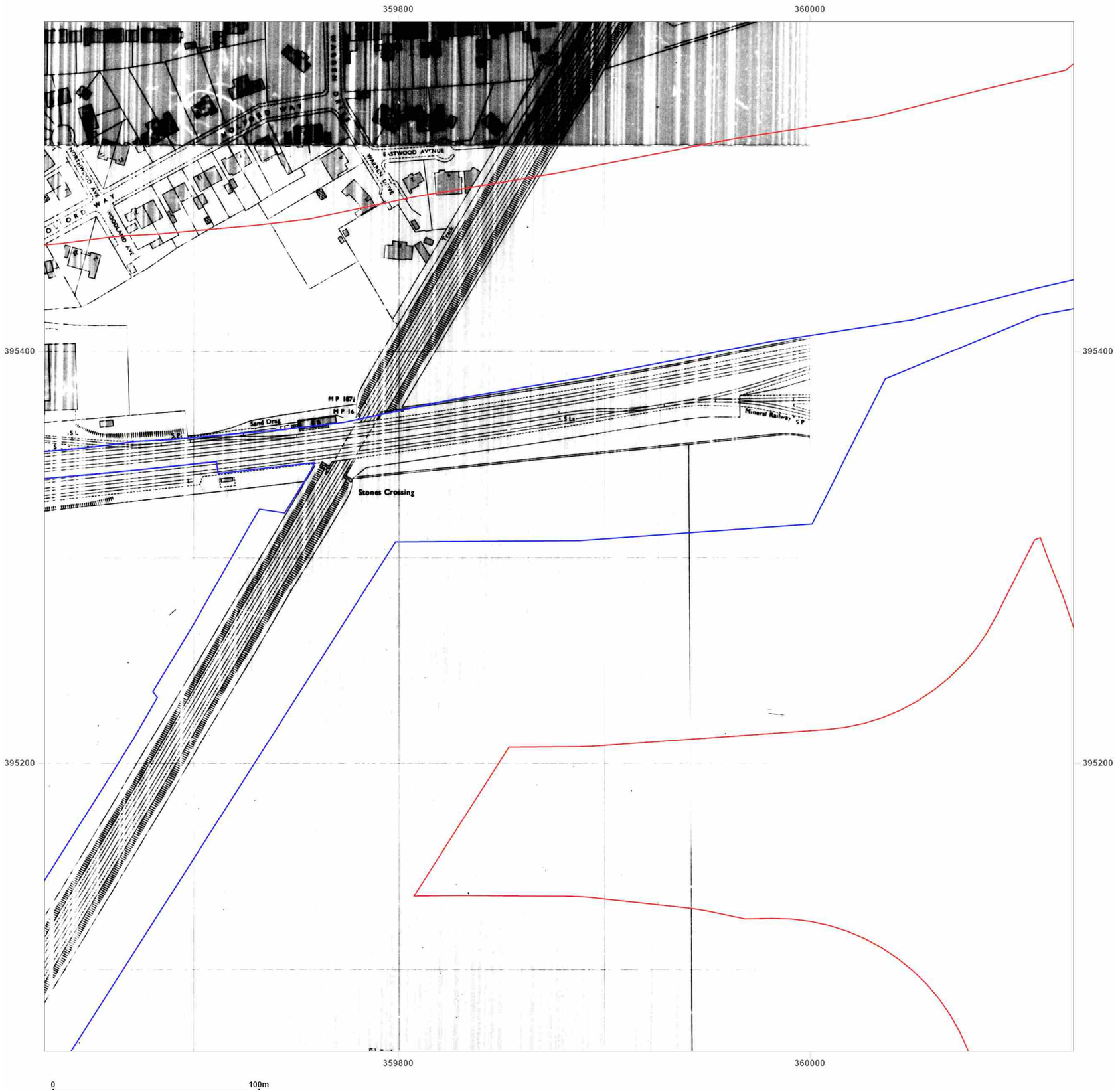

Groundsure INSIGHTS

Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_1250_2_4
Grid Ref: 359878, 395310

Map Name: National Grid

Map date: **1973**

Scale: 1:1,250

Printed at: 1:2,000

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Edition N/A
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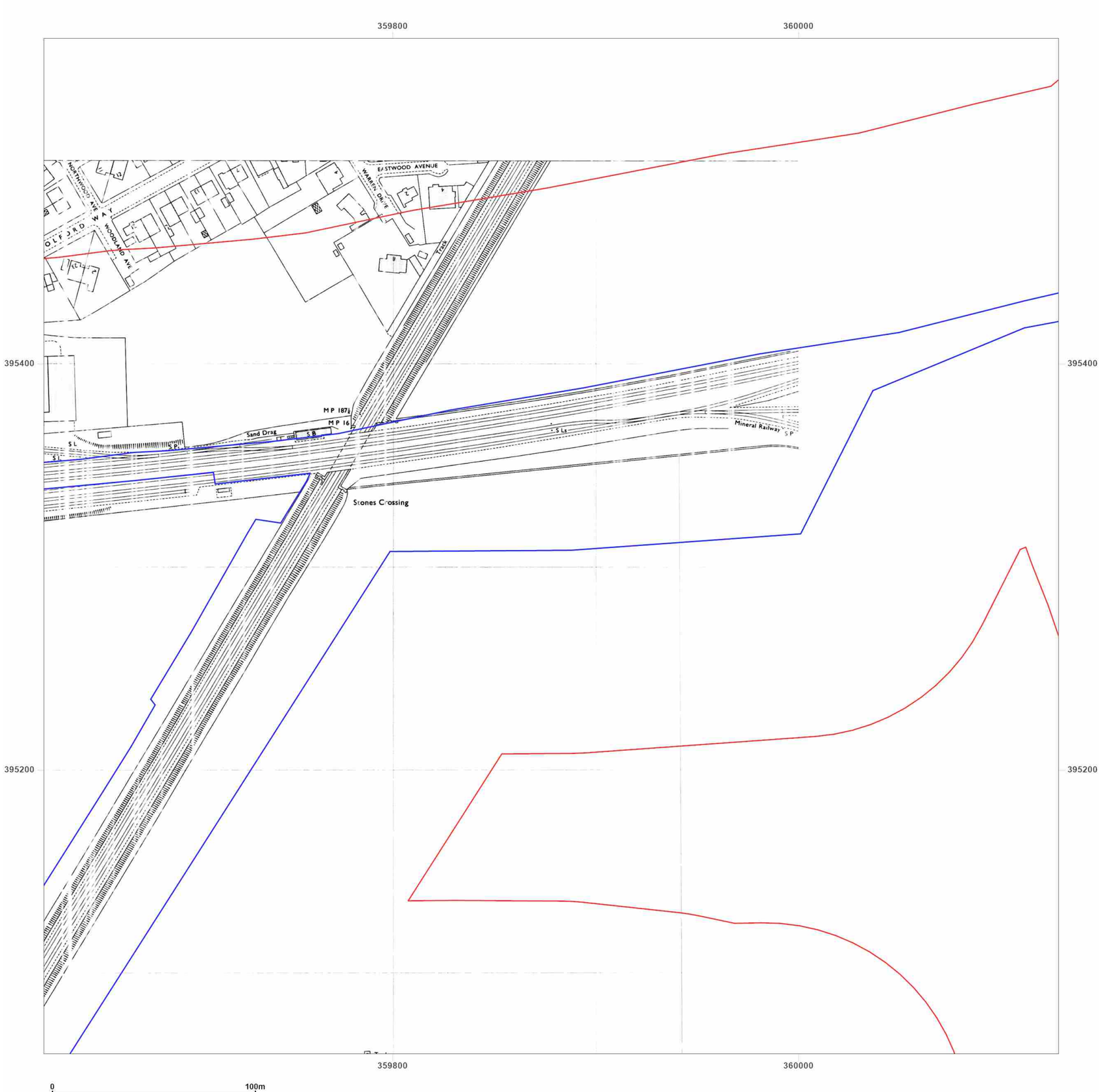

Groundsure INSIGHTS

Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_1250_2_4
Grid Ref: 359878, 395310

Map Name: National Grid

Map date: **1973**

Scale: 1:1,250

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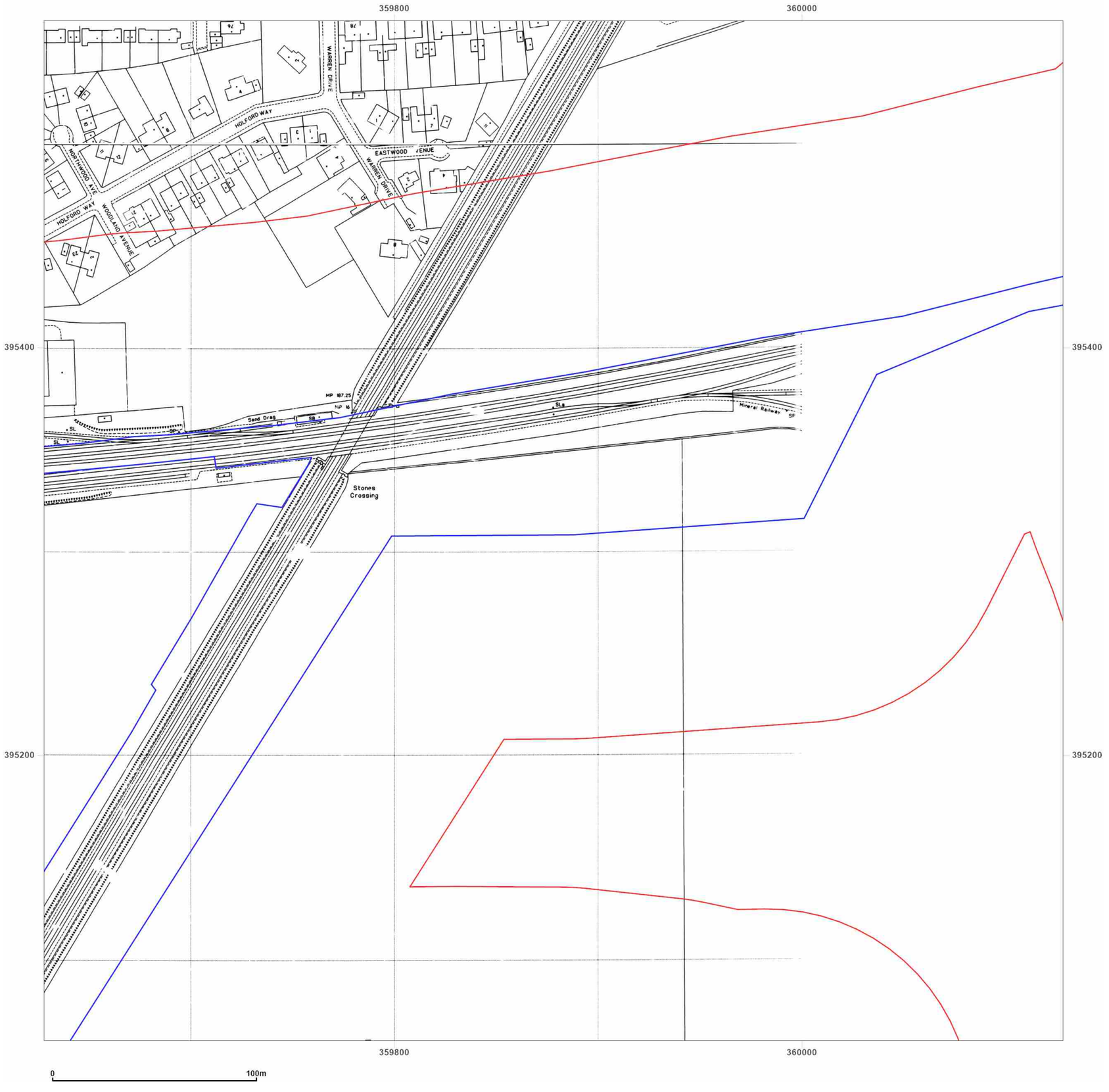

Groundsure INSIGHTS

Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_1250_2_4
Grid Ref: 359878, 395310

Map Name: National Grid

Map date: **1992**

Scale: 1:1,250

Printed at: 1:2,000

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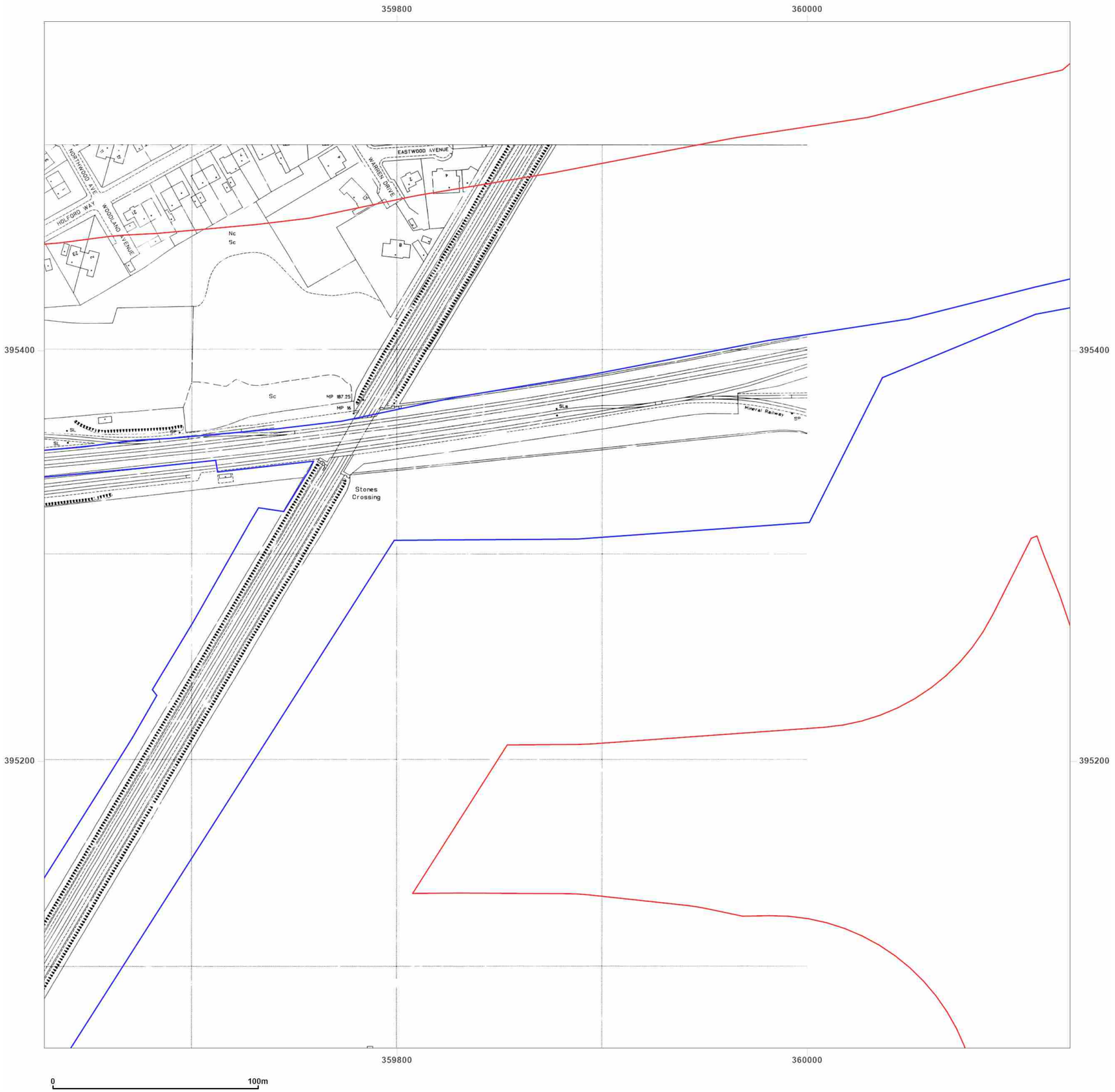

Groundsure INSIGHTS

Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_1250_2_4
Grid Ref: 359878, 395310

Map Name: National Grid

Map date: **1994**

Scale: 1:1,250

Printed at: 1:2,000

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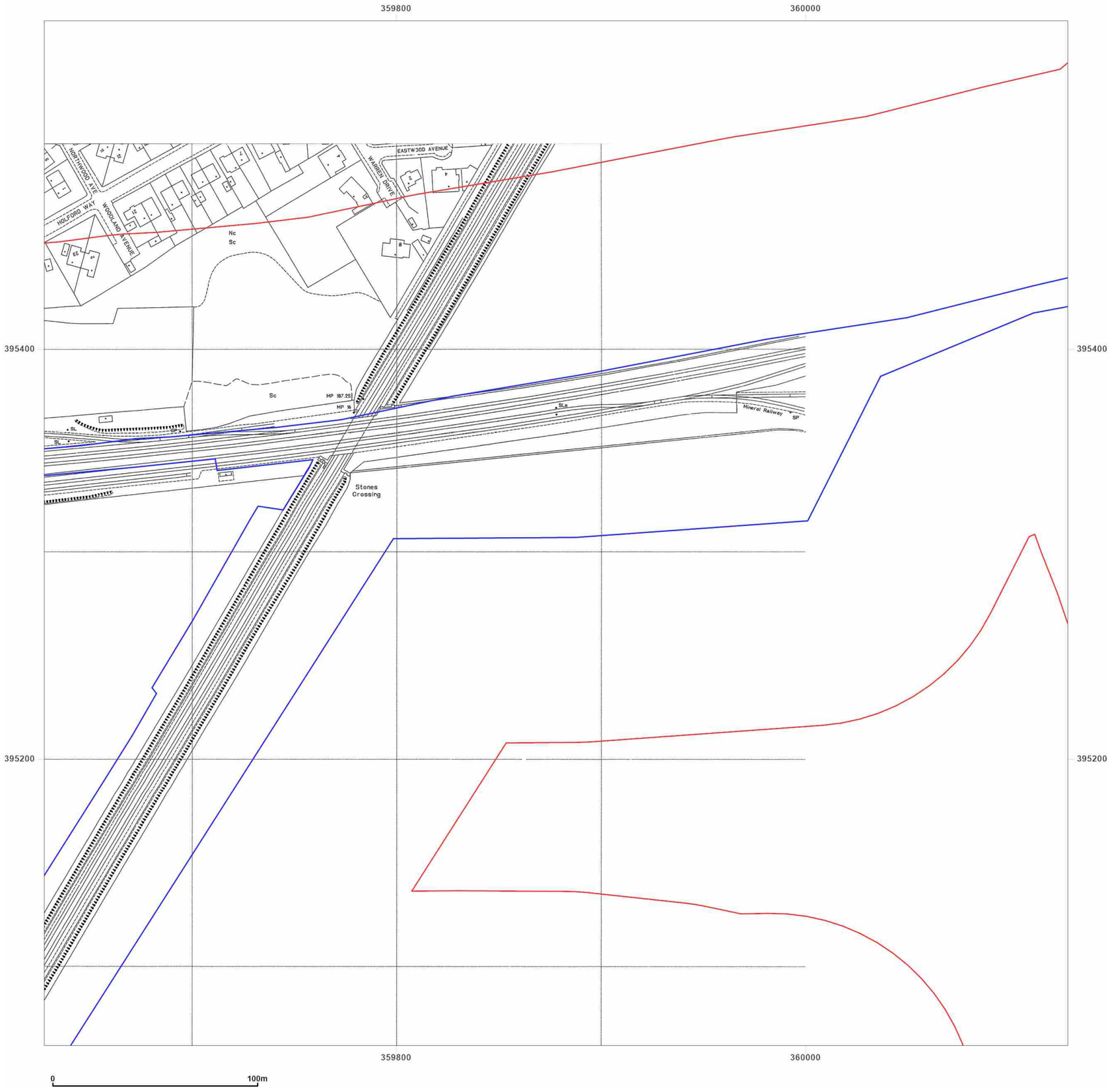

Groundsure INSIGHTS

Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_1250_2_4
Grid Ref: 359878, 395310

Map Name: National Grid

Map date: **1994**

Scale: 1:1,250

Printed at: 1:2,000

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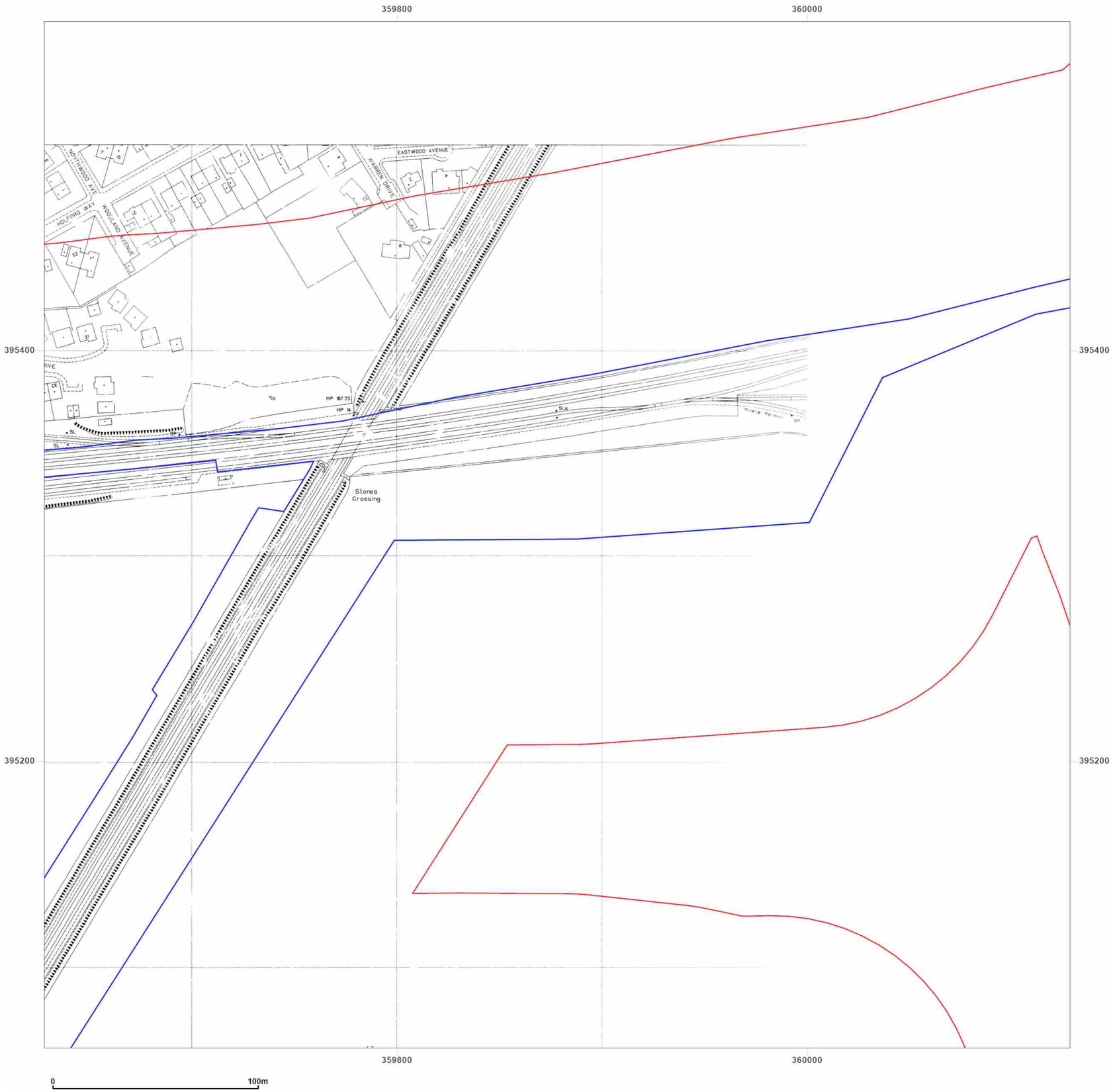

Groundsure INSIGHTS

Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_1250_2_4
Grid Ref: 359878, 395310

Map Name: National Grid

Map date: **1995**

Scale: 1:1,250

Printed at: 1:2,000

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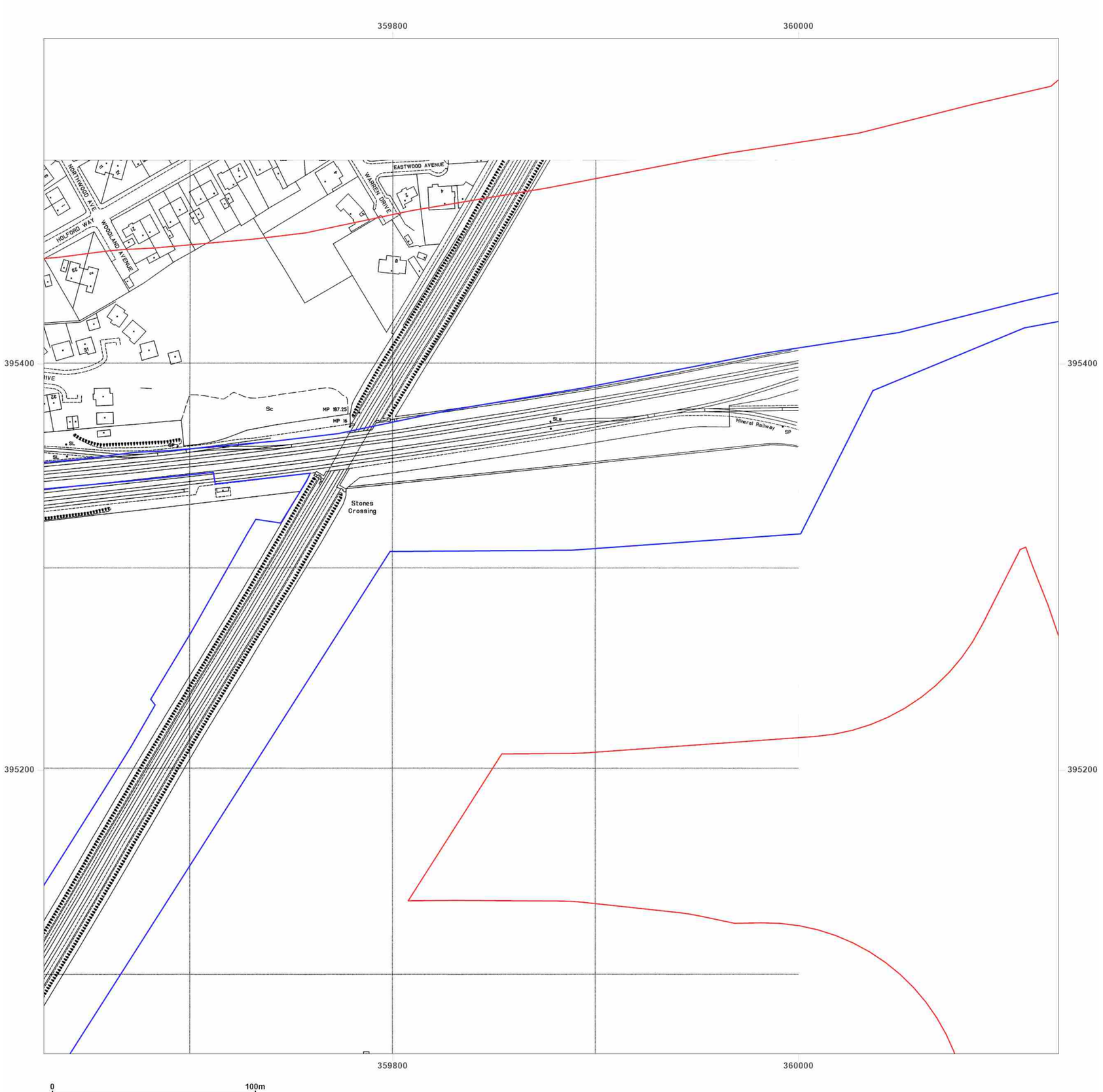

Groundsure INSIGHTS

Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_1250_2_4
Grid Ref: 359878, 395310

Map Name: National Grid

Map date: **1995**

Scale: 1:1,250

Printed at: 1:2,000

N
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Revised 1993
Edition N/A
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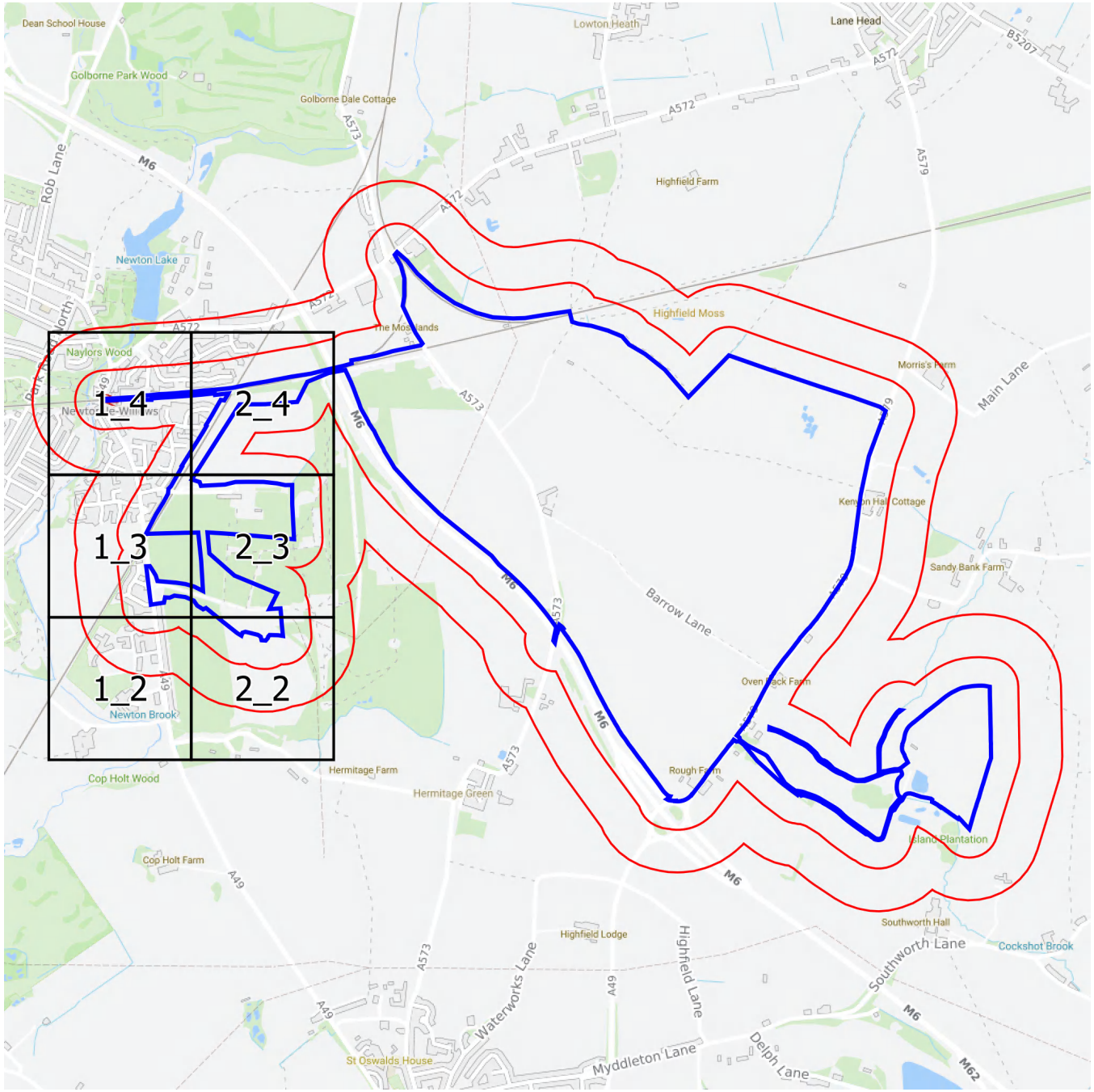

Groundsure INSIGHTS

1:1,250 Scale Grid Index

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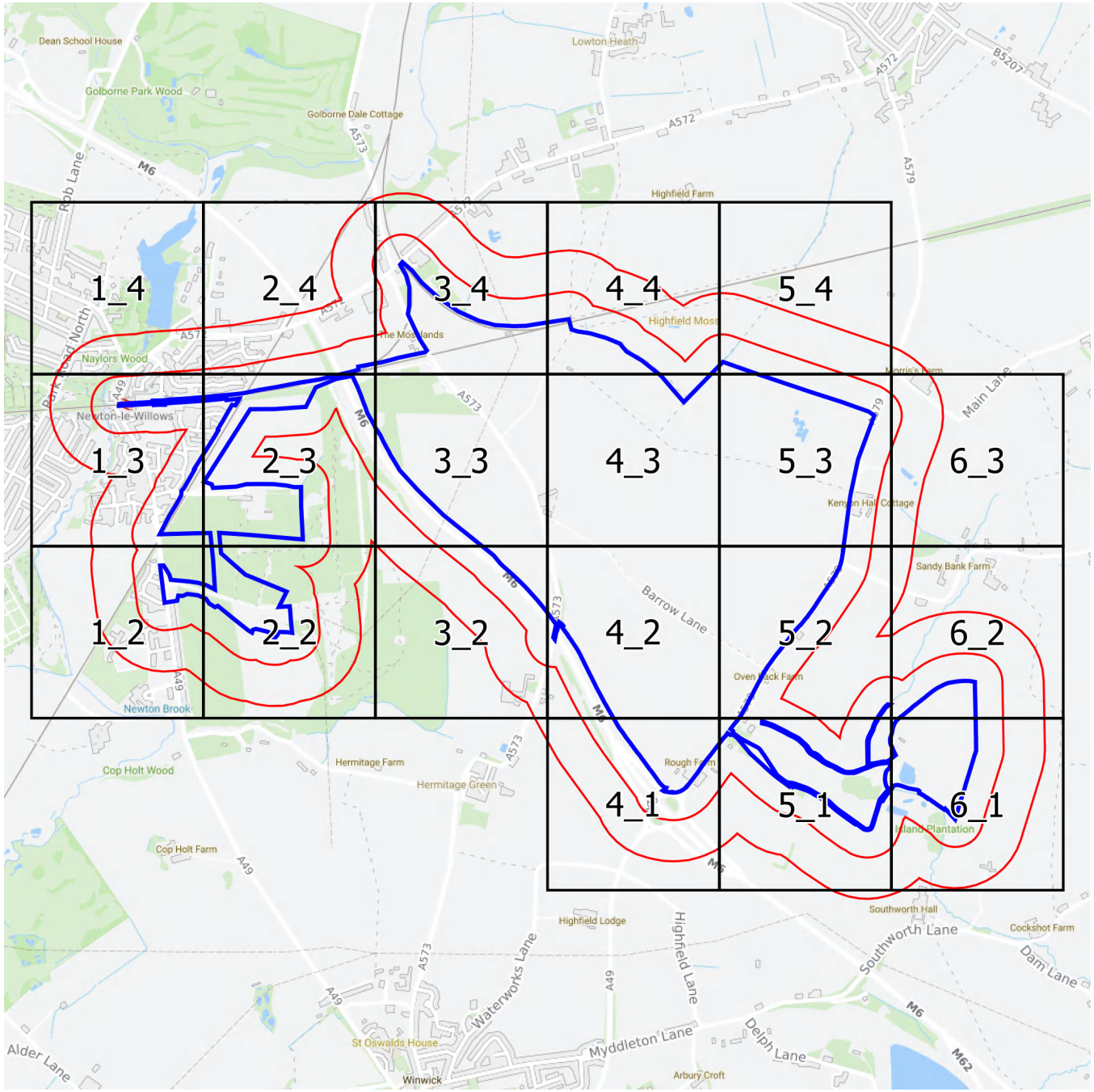

Groundsure INSIGHTS

1:2,500 Scale Grid Index

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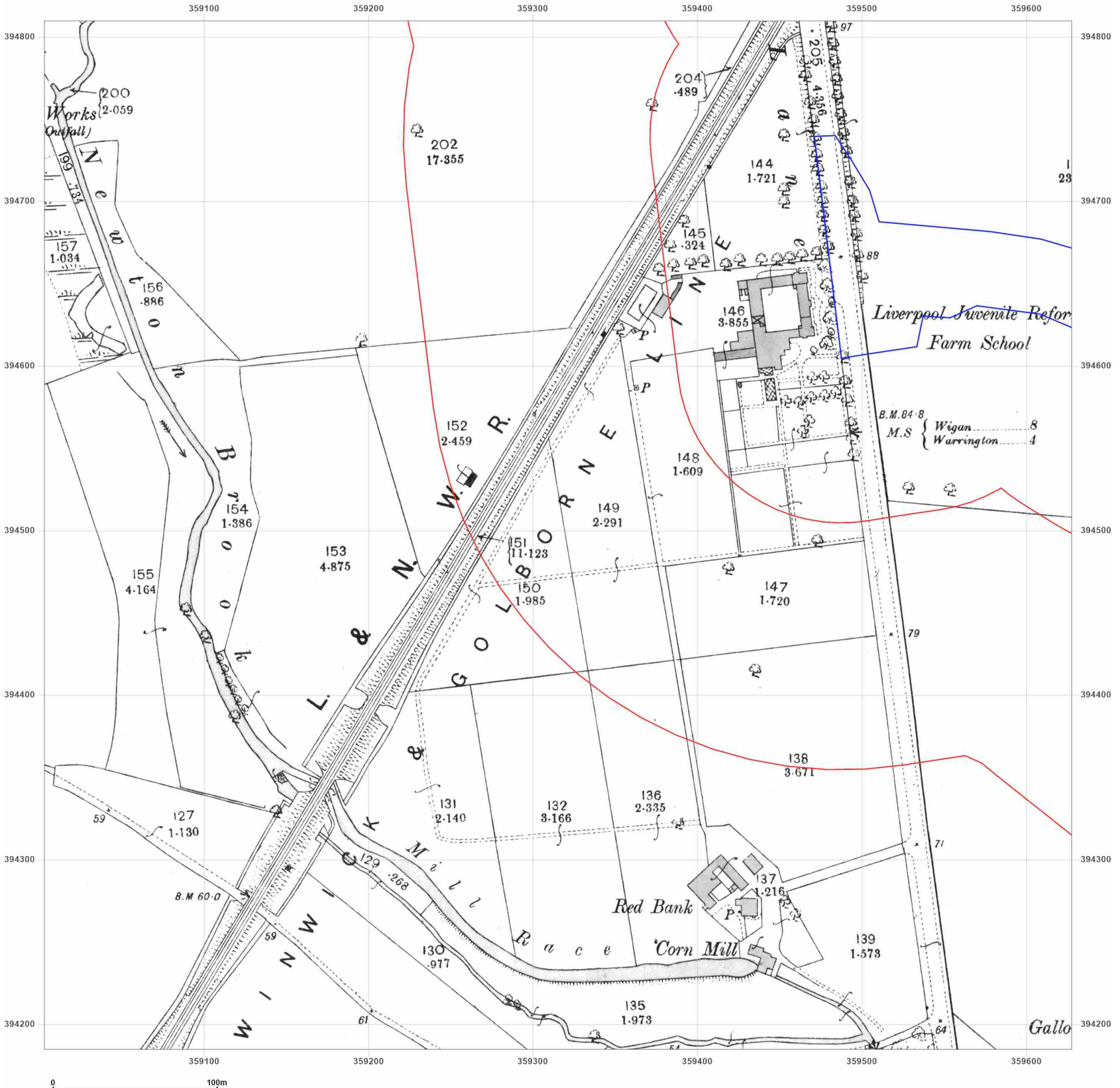

Groundsure INSIGHTS

Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_LS_1_2
Grid Ref: 359315, 394497

Map Name: County Series
Map date: **1893**
Scale: 1:2,500
Printed at: 1:2,500

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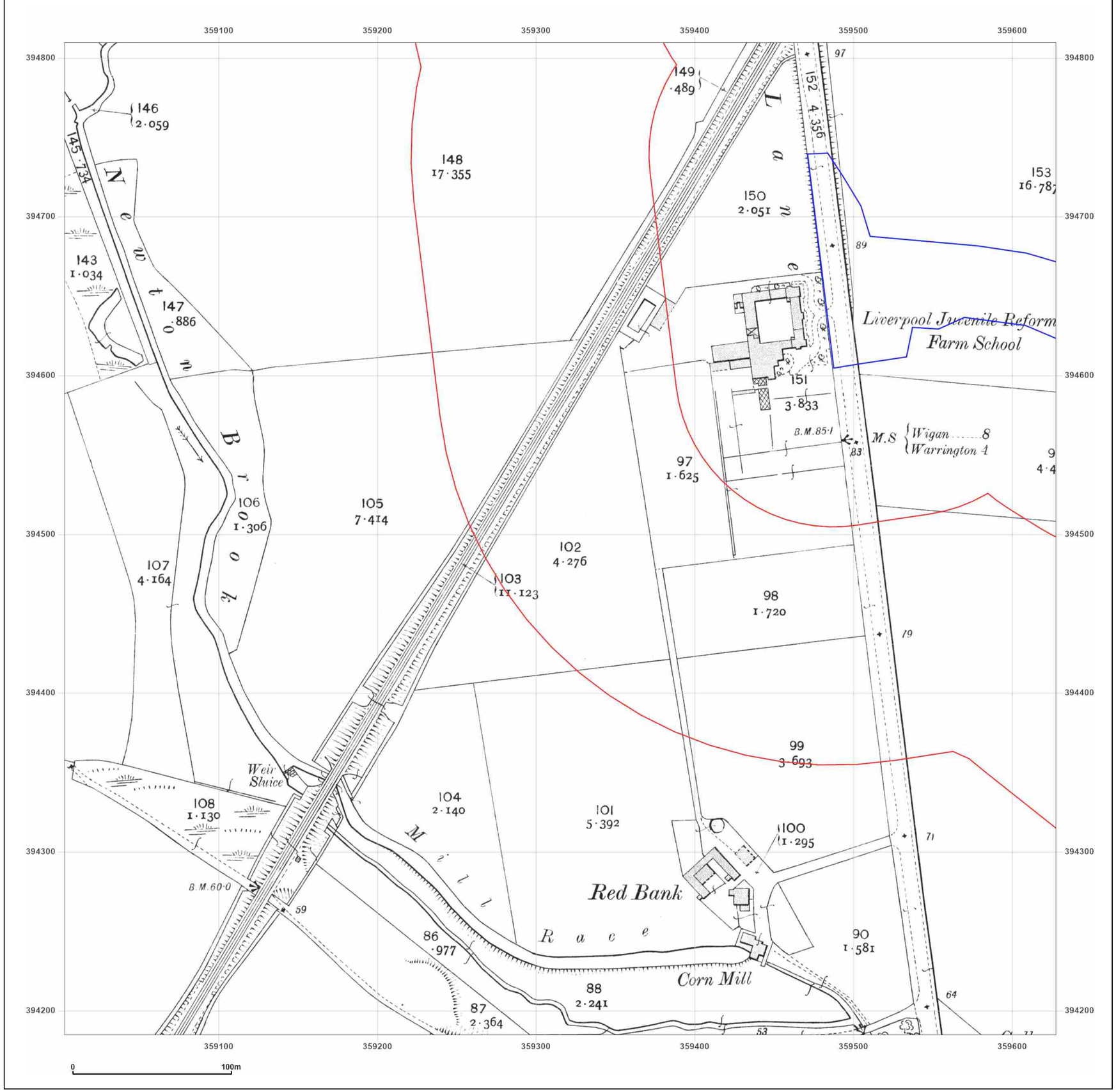

Groundsure INSIGHTS

Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_LS_1_2
Grid Ref: 359315, 394497

Map Name: County Series

Map date: **1907**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1907
Revised 1907
Edition N/A
Copyright N/A
Levelled N/A

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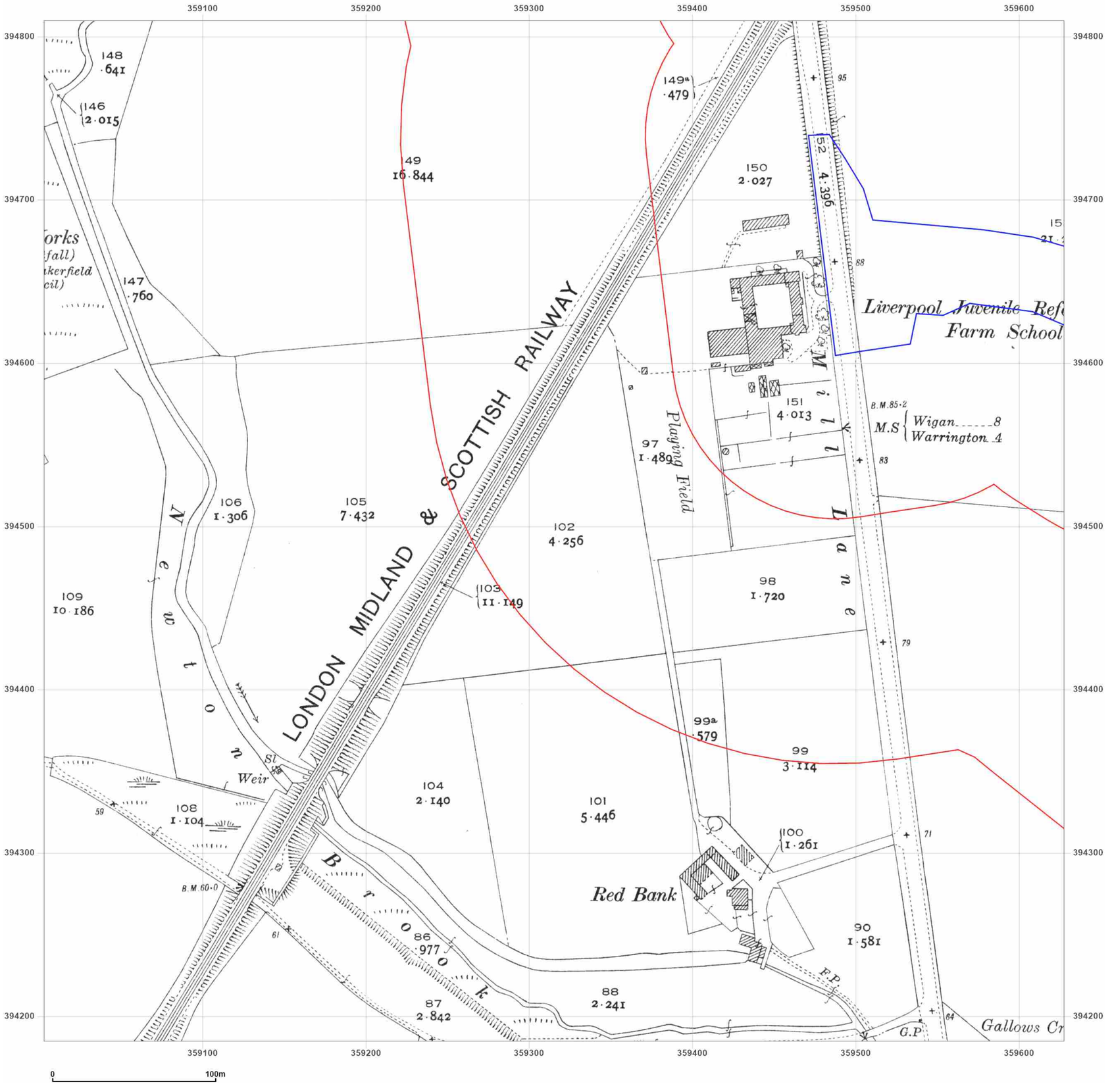

Groundsure INSIGHTS

Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_LS_1_2
Grid Ref: 359315, 394497

Map Name: County Series

Map date: **1928**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1928
Revised 1928
Edition N/A
Copyright N/A
Levelled N/A

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Groundsure INSIGHTS

Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_LS_1_2
Grid Ref: 359315, 394497

Map Name: National Grid

Map date: **1960**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1960
Revised 1960
Edition N/A
Copyright 1962
Levelled 1957

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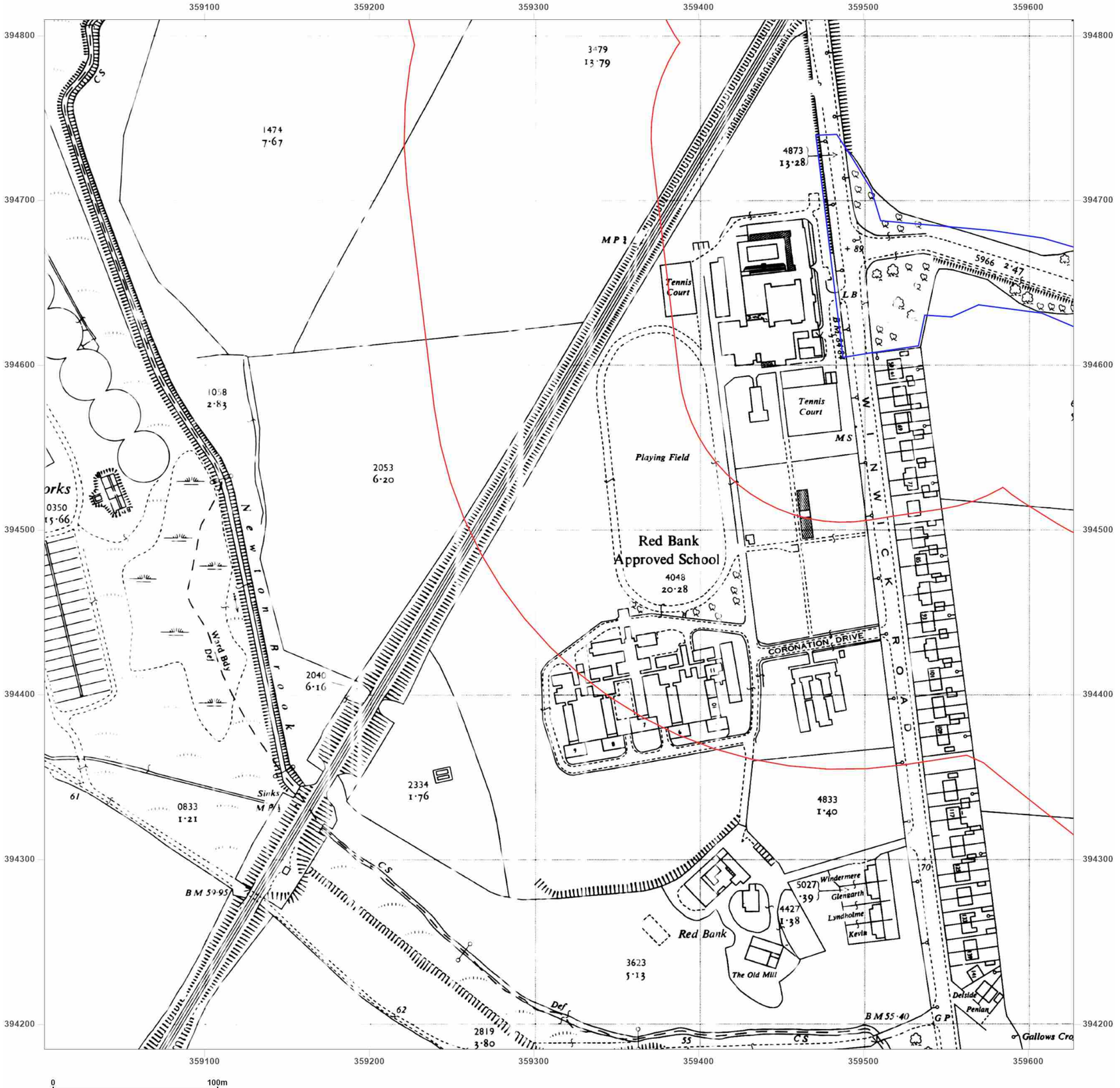

Groundsure INSIGHTS

Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_LS_1_2
Grid Ref: 359315, 394497

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

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Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_LS_1_3
Grid Ref: 359315, 395122

Map Name: County Series

Map date: **1893**

Scale: 1:2,500

Printed at: 1:2,500

N
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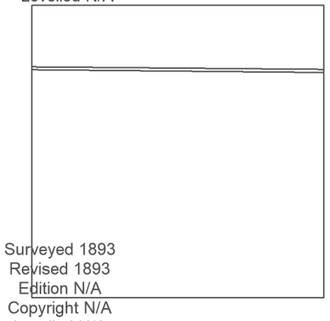
Surveyed 1893
Revised 1893
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1893
Revised 1893
Edition N/A
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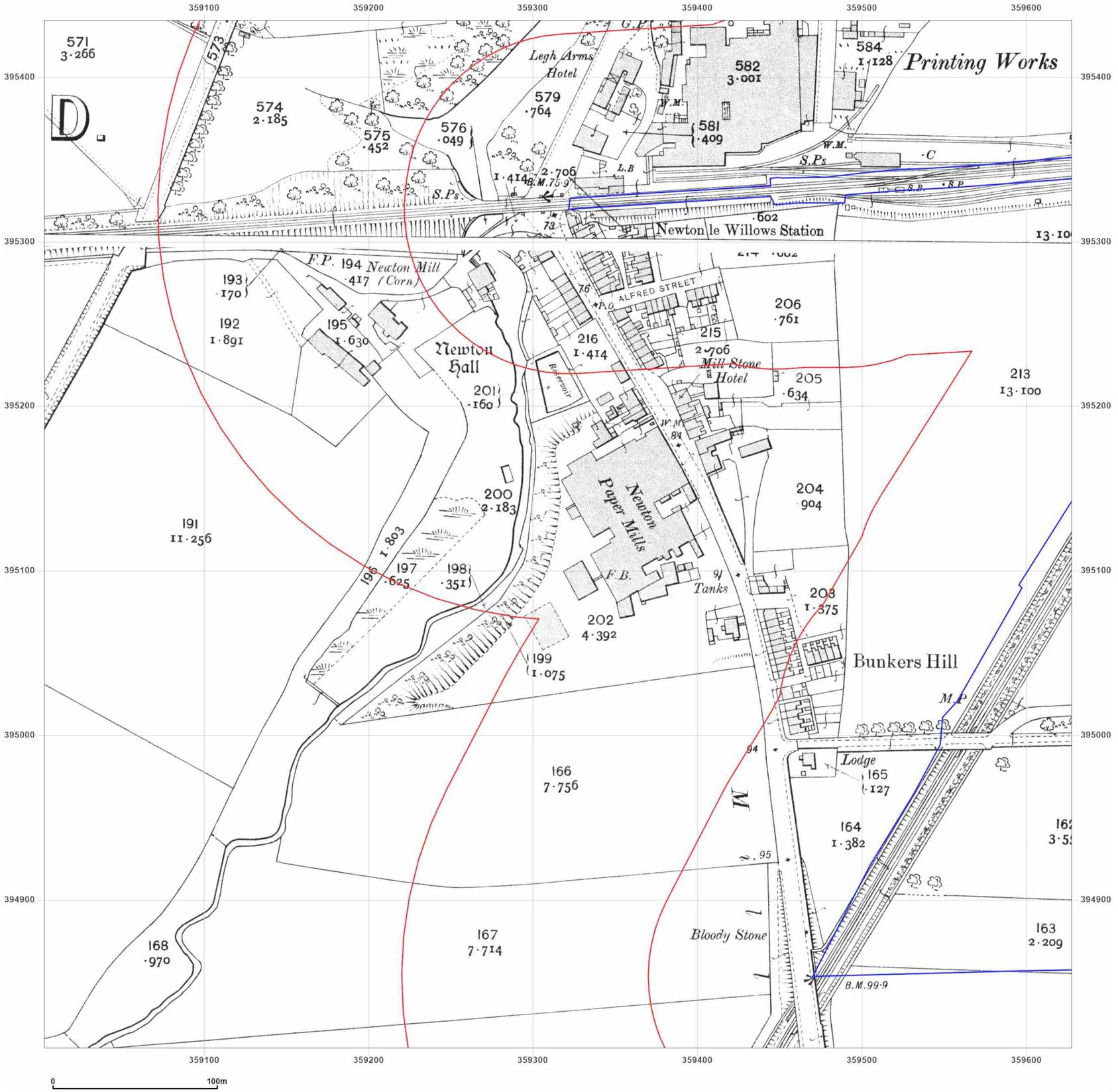

Groundsure INSIGHTS

Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_LS_1_3
Grid Ref: 359315, 395122

Map Name: County Series

Map date: **1907**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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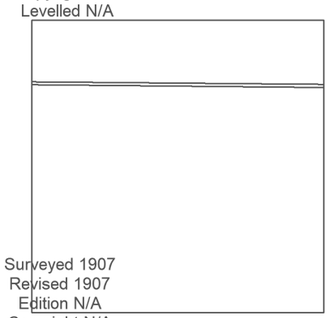
Surveyed 1907
Revised 1907
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1907
Revised 1907
Edition N/A
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Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_LS_1_3
Grid Ref: 359315, 395122

Map Name: County Series

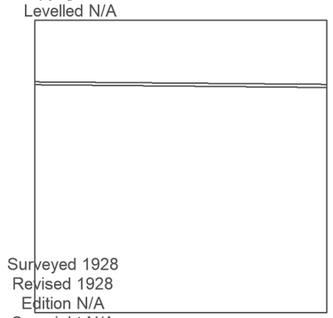
Map date: **1928**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1928
Revised 1928
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1928
Revised 1928
Edition N/A
Copyright N/A
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Groundsure INSIGHTS

Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_LS_1_3
Grid Ref: 359315, 395122

Map Name: National Grid

Map date: **1960-1961**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1960
Revised 1960
Edition N/A
Copyright 1962
Levelled 1957

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Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_LS_1_3
Grid Ref: 359315, 395122

Map Name: National Grid

Map date: **1960-1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1960
Revised 1960
Edition N/A
Copyright 1961
Levelled 1958

Surveyed N/A
Revised N/A
Edition N/A
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Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_LS_1_4
Grid Ref: 359315, 395747

Map Name: County Series

Map date: **1893**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1893
Revised 1893
Edition N/A
Copyright N/A
Levelled N/A

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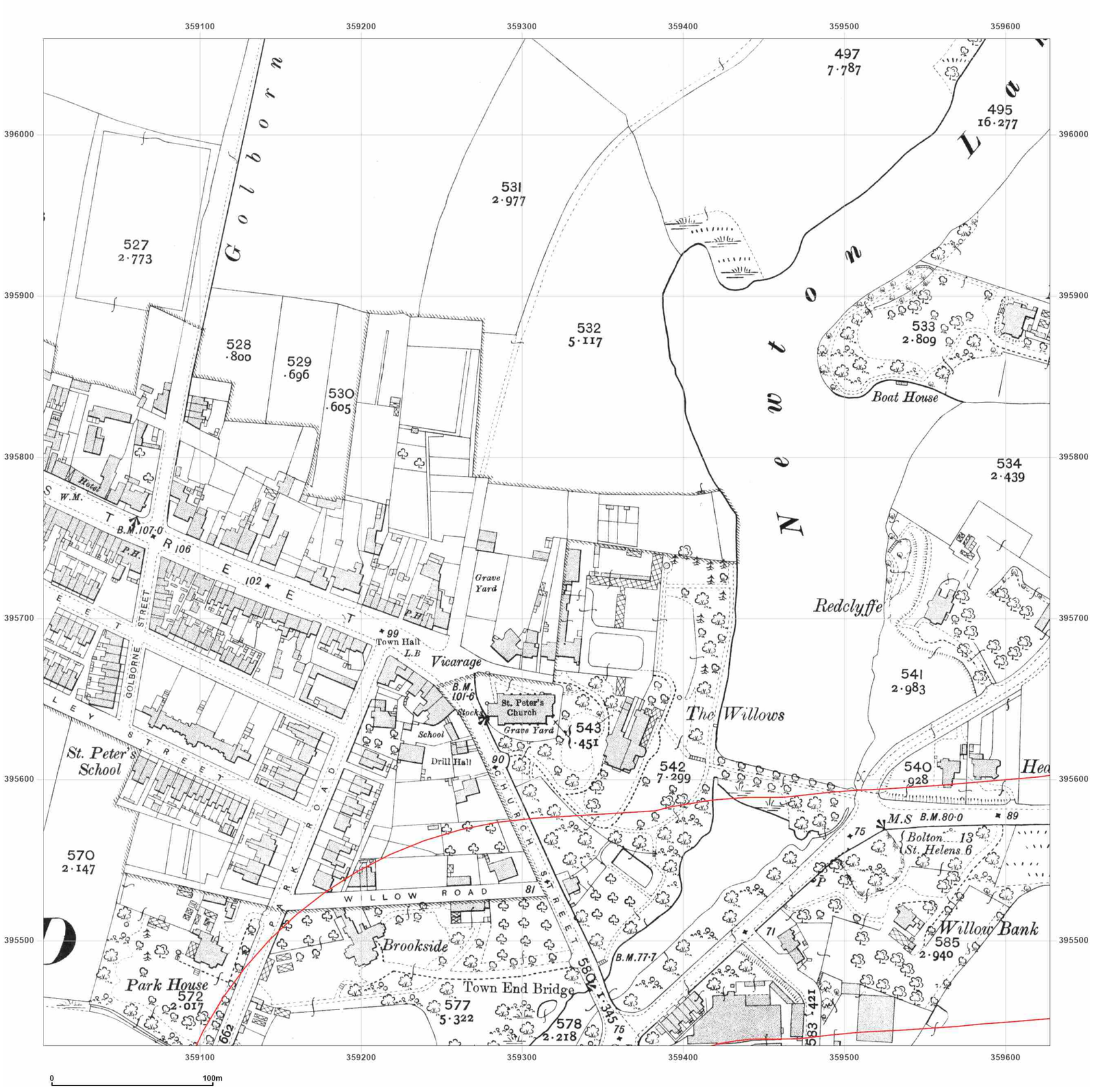

Groundsure INSIGHTS

Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_LS_1_4
Grid Ref: 359315, 395747

Map Name: County Series

Map date: **1907**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1907
Revised 1907
Edition N/A
Copyright N/A
Levelled N/A

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Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_LS_1_4
Grid Ref: 359315, 395747

Map Name: County Series

Map date: **1928**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1928
Revised 1928
Edition N/A
Copyright N/A
Levelled N/A

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Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_LS_1_4
Grid Ref: 359315, 395747

Map Name: National Grid

Map date: **1960**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1960
Revised 1960
Edition N/A
Copyright 1961
Levelled 1958

Surveyed 1960
Revised 1960
Edition N/A
Copyright 1961
Levelled 1958

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Site Details:

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St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_LS_1_4
Grid Ref: 359315, 395747

Map Name: National Grid

Map date: **1961-1963**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled 1963

Surveyed N/A
Revised N/A
Edition N/A
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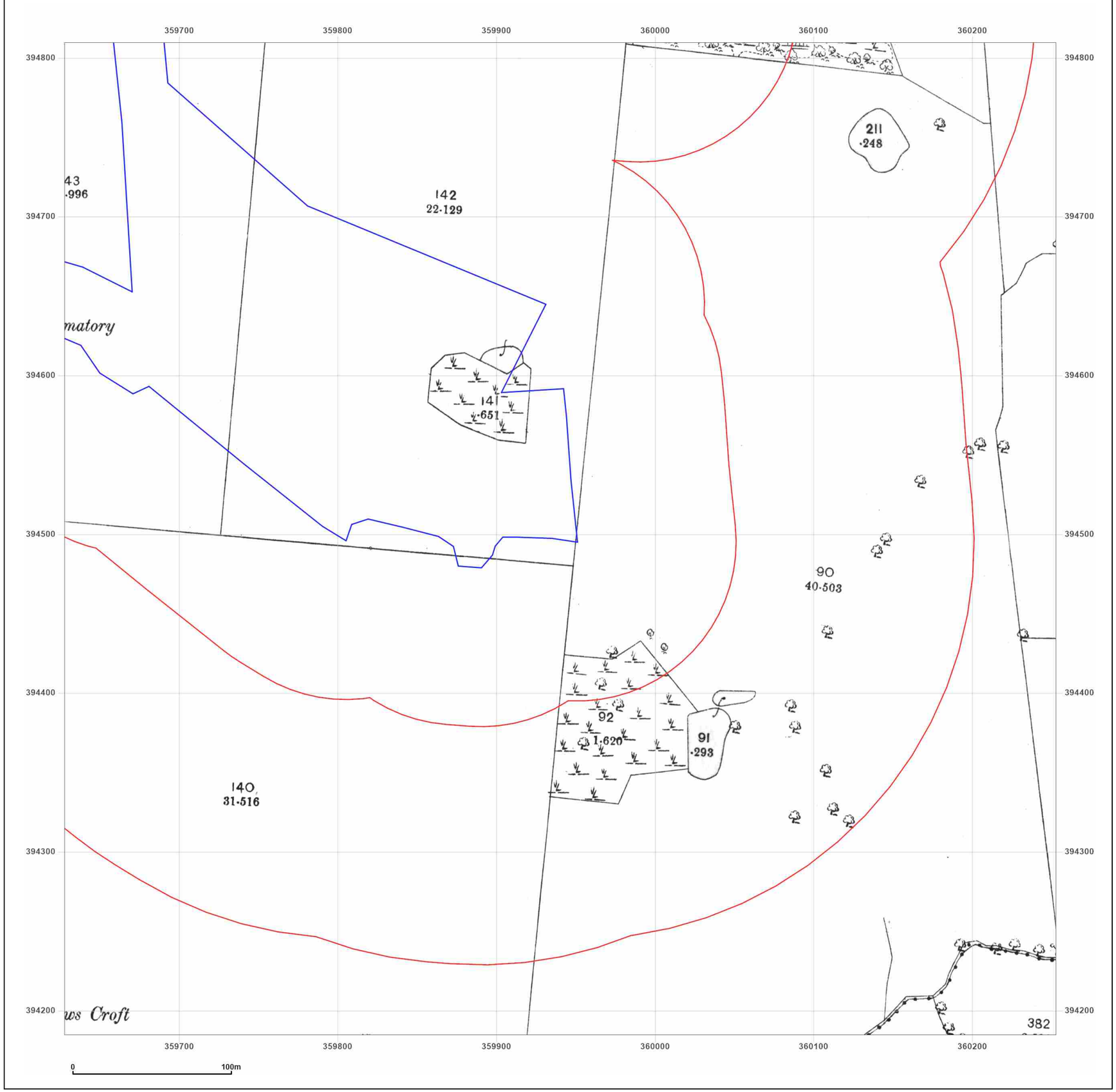

Groundsure INSIGHTS

Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_LS_2_2
Grid Ref: 359940, 394497

Map Name: County Series

Map date: **1893**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1893
Revised 1893
Edition N/A
Copyright N/A
Levelled N/A

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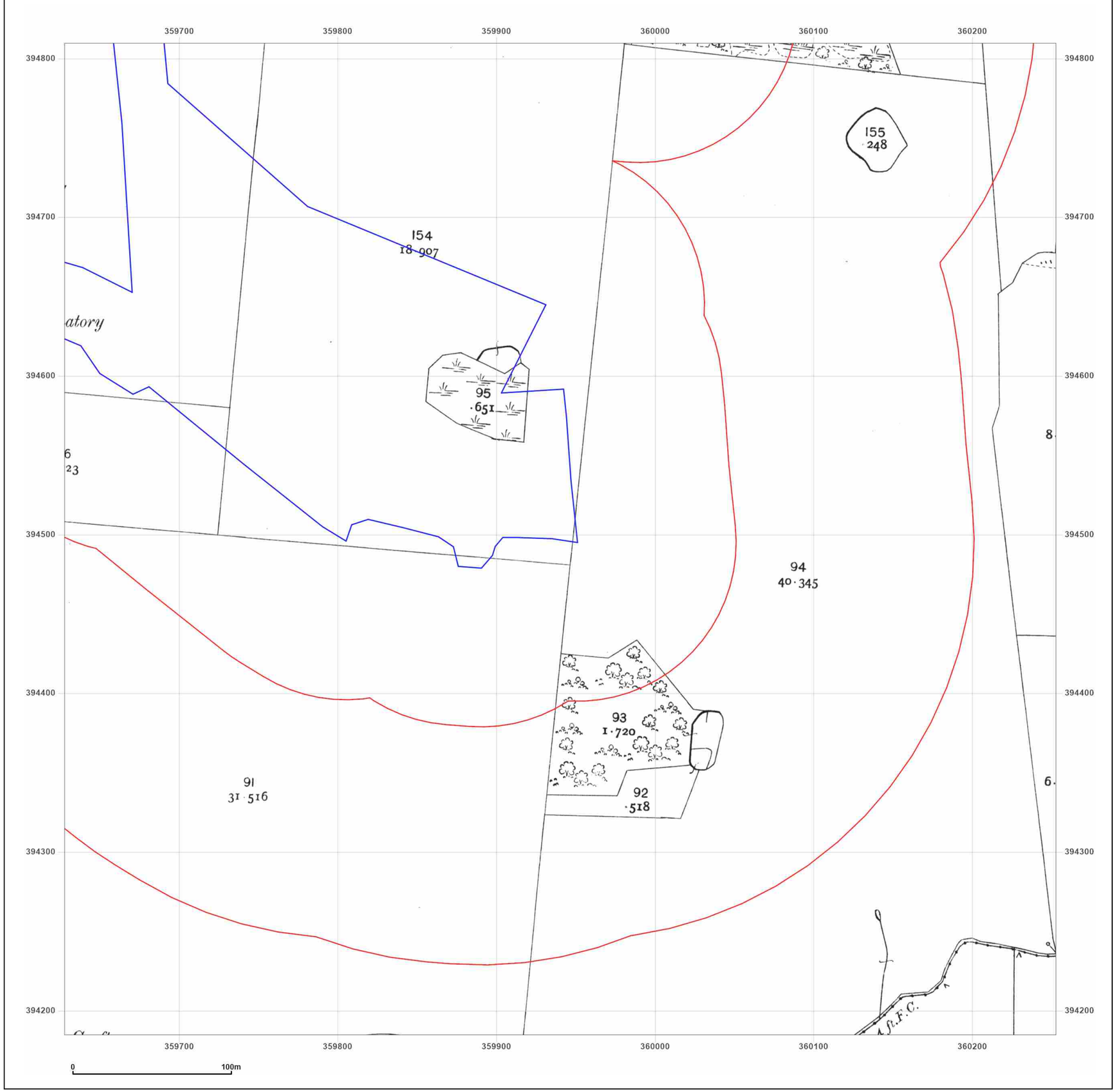

Groundsure INSIGHTS

Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_LS_2_2
Grid Ref: 359940, 394497

Map Name: County Series

Map date: **1907**

Scale: 1:2,500

Printed at: 1:2,500

N
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S

Surveyed 1907
Revised 1907
Edition N/A
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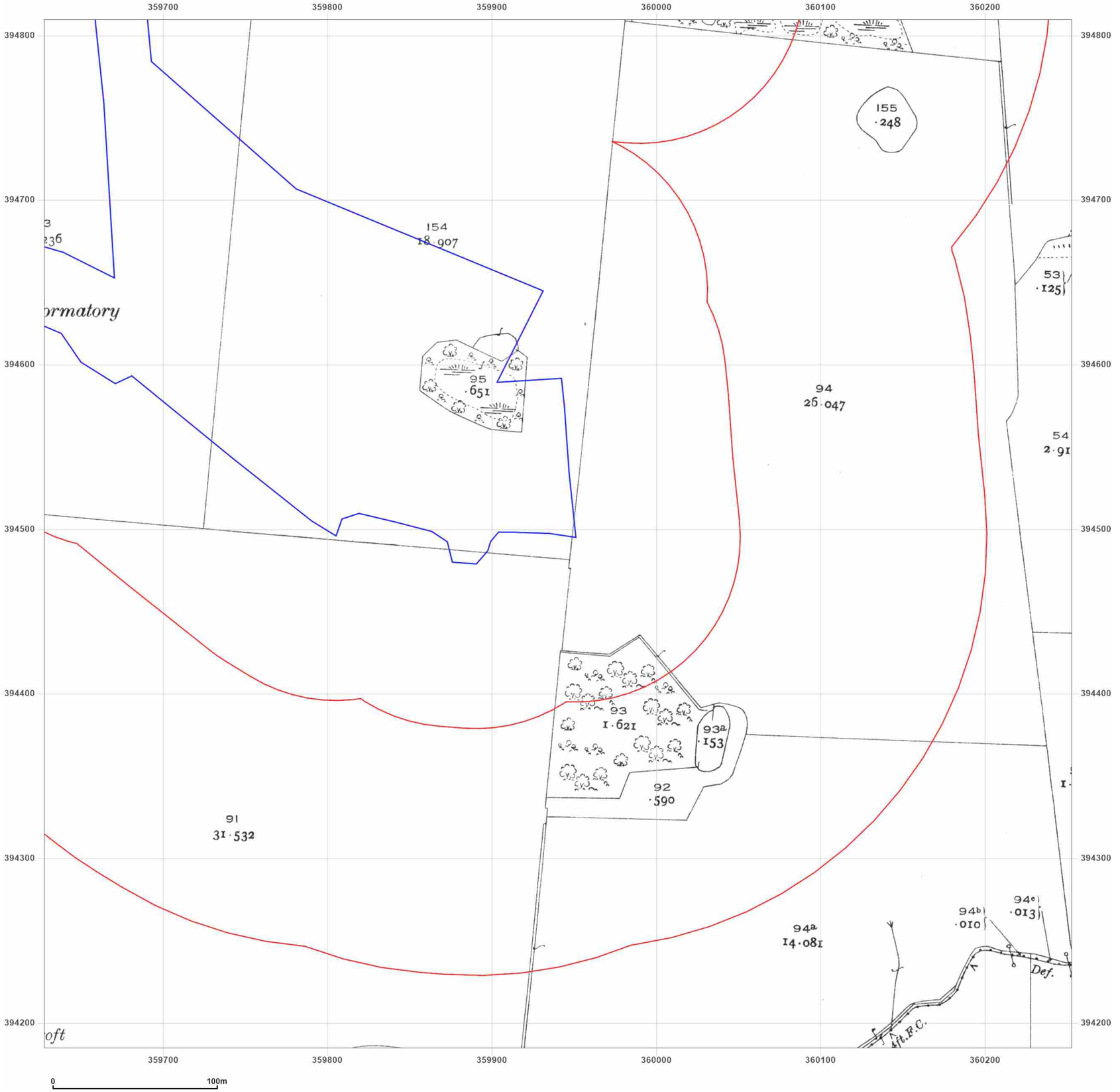

Groundsure INSIGHTS

Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_LS_2_2
Grid Ref: 359940, 394497

Map Name: County Series

Map date: **1928**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1928
Revised 1928
Edition N/A
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Groundsure INSIGHTS

Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_LS_2_2
Grid Ref: 359940, 394497

Map Name: National Grid

Map date: **1960-1961**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1960
Revised 1960
Edition N/A
Copyright 1962
Levelled 1957

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958

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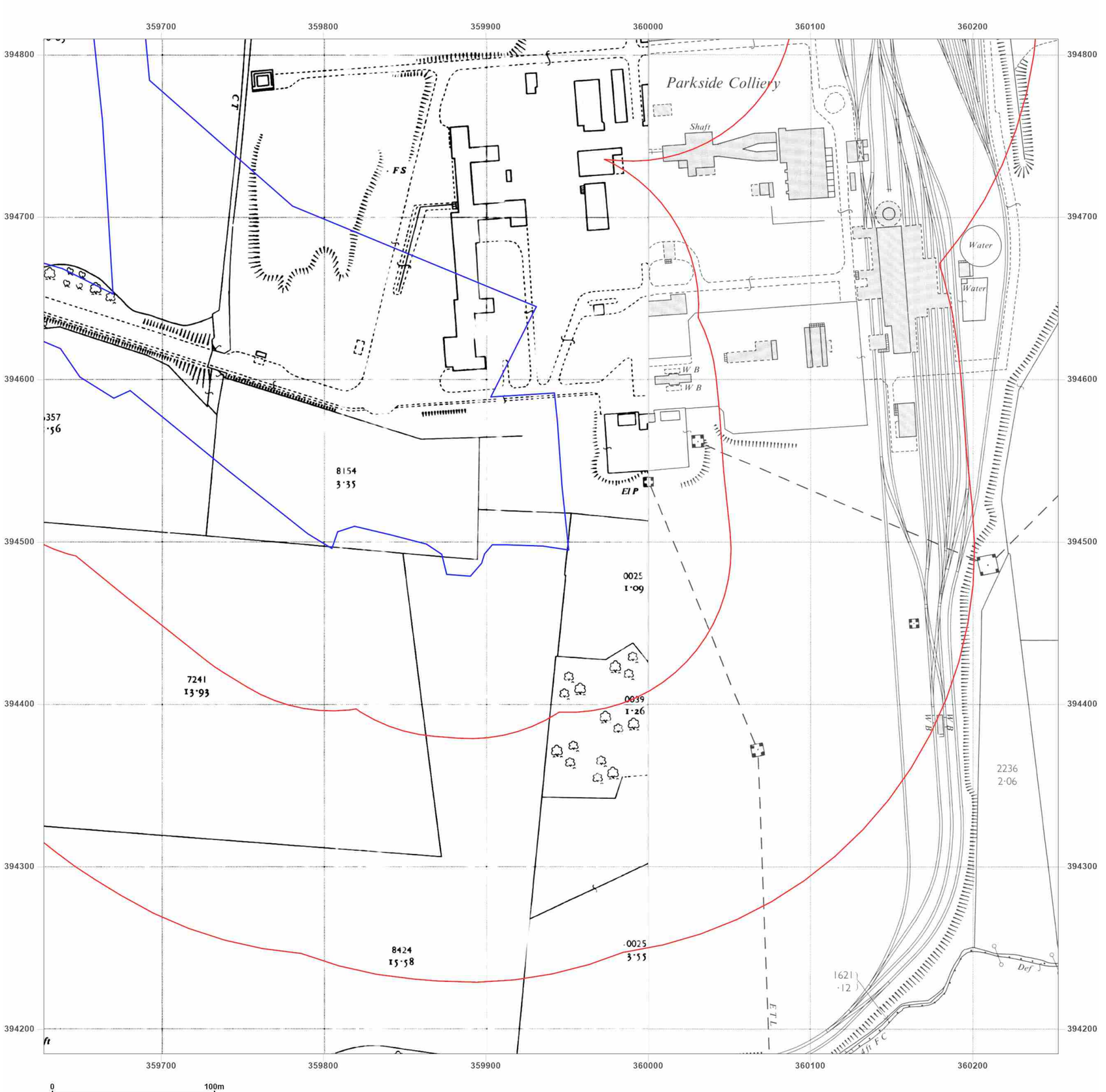

Groundsure INSIGHTS

Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_LS_2_2
Grid Ref: 359940, 394497

Map Name: National Grid

Map date: **1962-1964**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1964
Revised 1964
Edition N/A
Copyright 1965
Levelled 1963

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Groundsure INSIGHTS

Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_LS_2_2
Grid Ref: 359940, 394497

Map Name: National Grid

Map date: **1975**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed N/A
Revised N/A
Edition N/A
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Groundsure INSIGHTS

Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_LS_2_2
Grid Ref: 359940, 394497

Map Name: National Grid

Map date: **1986**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1963
Revised 1986
Edition N/A
Copyright 1986
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Groundsure INSIGHTS

Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_LS_2_2
Grid Ref: 359940, 394497

Map Name: National Grid

Map date: **1991**

Scale: 1:2,500

Printed at: 1:2,500

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W E
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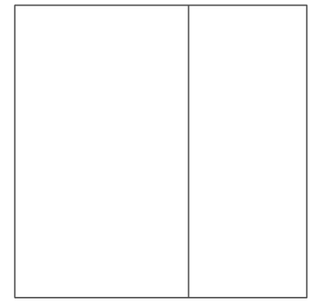

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Edition N/A
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Groundsure INSIGHTS

Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_LS_2_2
Grid Ref: 359940, 394497

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1993
Revised N/A
Edition N/A
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Groundsure INSIGHTS

Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_LS_2_2
Grid Ref: 359940, 394497

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
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Levelled N/A

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Groundsure INSIGHTS

Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_LS_2_2
Grid Ref: 359940, 394497

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed N/A
Revised N/A
Edition N/A
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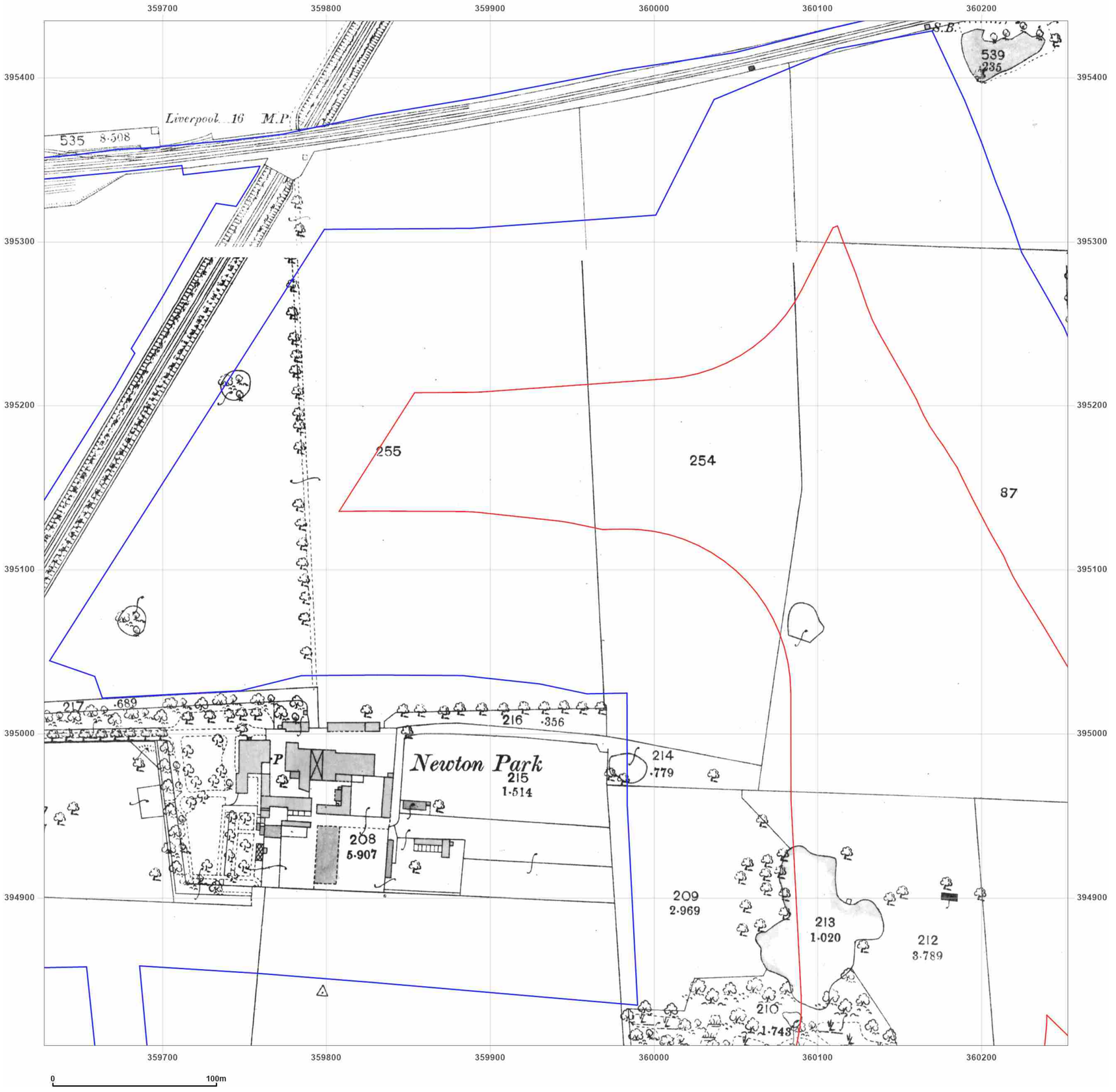

Groundsure INSIGHTS

Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_LS_2_3
Grid Ref: 359940, 395122

Map Name: County Series
Map date: **1893**
Scale: 1:2,500
Printed at: 1:2,500

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Surveyed 1893
Revised 1893
Edition N/A
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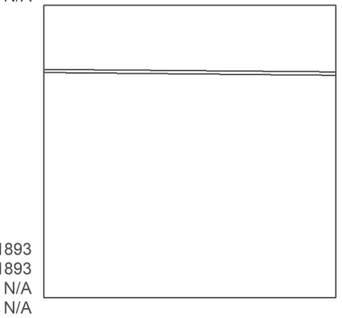

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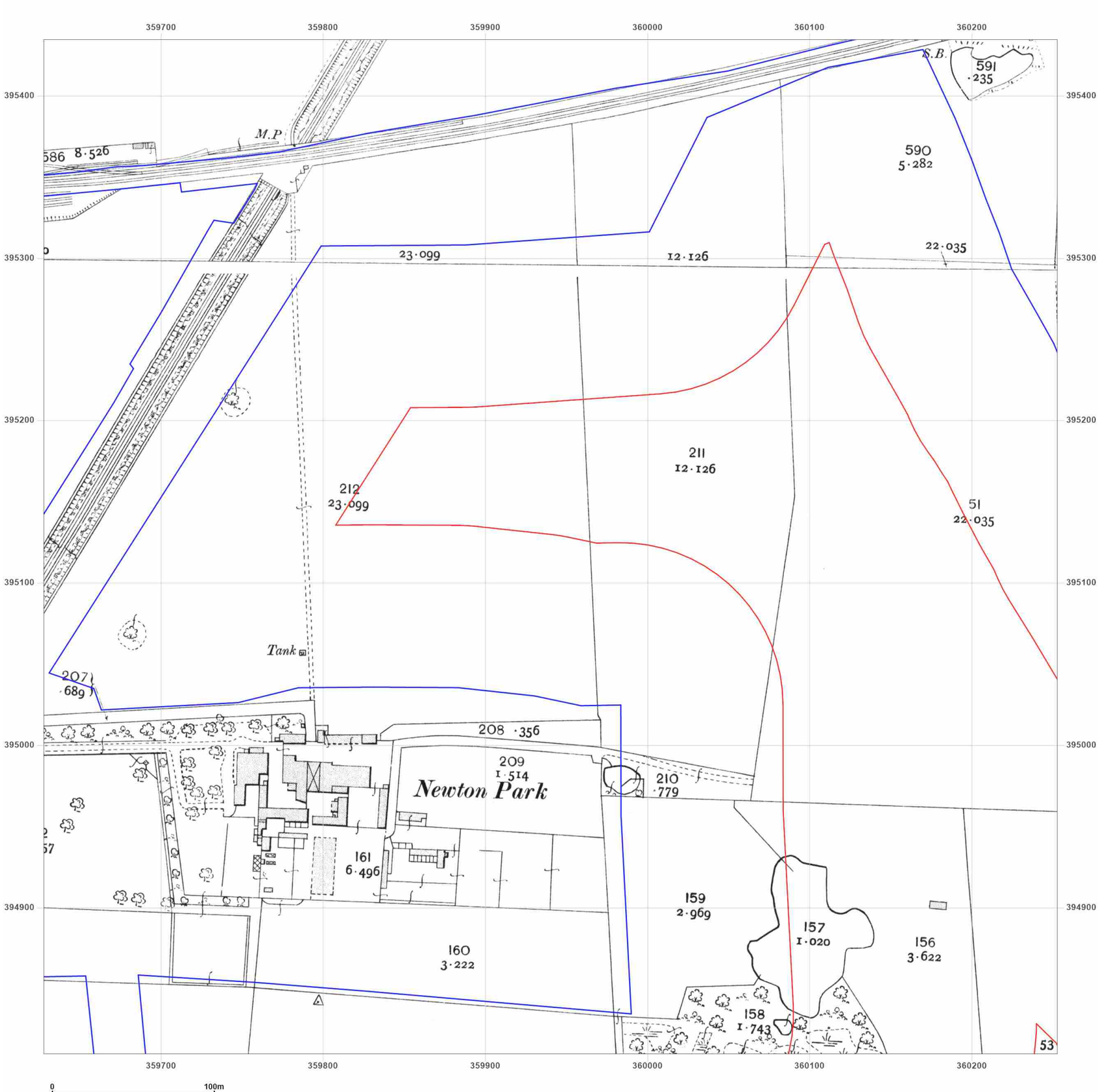

Groundsure INSIGHTS

Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_LS_2_3
Grid Ref: 359940, 395122

Map Name: County Series

Map date: **1907**

Scale: 1:2,500

Printed at: 1:2,500

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Groundsure INSIGHTS

Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_LS_2_3
Grid Ref: 359940, 395122

Map Name: County Series

Map date: **1928**

Scale: 1:2,500

Printed at: 1:2,500

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Groundsure INSIGHTS

Site Details:

Parkside East, Junction 22 M6,
St Helens

Client Ref: 8362
Report Ref: GS-OCF-42S-9GF-7DY_LS_2_3
Grid Ref: 359940, 395122

Map Name: National Grid

Map date: **1959-1961**

Scale: 1:2,500

Printed at: 1:2,500

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Revised 1960
Edition N/A
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Levelled 1958

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Revised 1959
Edition N/A
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Revised 1961
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