

Phase 1 Desk Study and Preliminary Geoenvironmental Assessment

For a site at

Huyton Industrial Trade Park

Undertaken for

Derwent Holdings Ltd

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1.0 INTRODUCTION

Appointment

- 1.1 WML Consulting has been commissioned by Derwent Holdings Ltd to undertake a Phase 1 Desk Study and Preliminary Geo-environmental Assessment of a site located within the Huyton Trade Industrial Park also known as the Interchange Motorway Estate.

Proposed Development

- 1.2 The scheme consists of the partial redevelopment of an existing live industrial site for industrial units of various sizes contained within two new structures.
- 1.3 The proposed development is depicted as Unit A and Unit B on the plan by RGP, presented in Appendix 01.
- 1.4 The current development boundary is depicted by the red-line boundary within the Groundsure report within Appendix 03.

Objective

- 1.5 The purpose of the desk study is to collate available geological and environmental data for the site and its environs in order to undertake a preliminary geotechnical and geoenvironmental appraisal and thus inform a site-specific conceptual model.
- 1.6 This enables a preliminary assessment of geo-environmental risks to be undertaken and provides information for the design of a geotechnical and geo-environmental ground investigation.
- 1.7 This follows current recommendations set out in the Environment Agency (EA) Model Procedures for Land Contamination Risk Management, October 2020.

Background

- 1.8 The site has previously been subject to intrusive investigations for a slightly smaller development area than that currently proposed. The reports by RoC referenced in Section 5.0 have been obtained from the client for review.
- 1.9 Subsequently, in consideration of the range of geoenvironmental information available and age of some of the previous information, it was considered that an up to date Phase 1 desk study should be undertaken for the currently proposed planning application.
- 1.10 It should also be noted that since the previous RoC investigations were undertaken the Coal Authority have provided up to date information in relation to the potential risks associated with shallow coal workings and the presence of mine shafts within the development boundary.

Scope

- 1.11 The desk study has comprised a site reconnaissance visit on 11th March 2021 and a review of the following information sources:
- British Geological Survey (BGS) 1:50,000 scale, Sheet 97 'Runcorn' (Solid & Drift edition).
 - BGS Digital Geological Map of Great Britain (DiGMapGB-50; available as a web map service).
 - The site and surrounding area's geological and environmental setting from data presented in the site specific GroundSure Environmental Insight Report (Appendix 03).
 - Historical Ordnance Survey maps as provided by GroundSure (Appendix 03).
 - Coal Authority Ground Subsidence Report (Appendix 04) and Coal Authority interactive map viewer (available as a Web Map Service).

- Coal Authority Mine Entry Interpretative Report (Appendix 04).
- UKradon Indicative Atlas of radon in England and Wales as provided by Public Health Security Agency.
- BRE Publication 211 (2015) "Radon: Guidance on Protective Measures for New Buildings".
- Review of free public sector information through QGIS viewer licensed under the Open Government Licence v3.0.
- A review of available geo environmental investigations for the subject site as provided by the client.

2.0 SITE SETTING

Description	Comments
Site Address	Interchange Motorway Estate Wilson Road Huyton Knowsley L36 6JG
National Grid Reference	345347E, 390124N
Site Area	2.1hectares
Site Location	The site is bounded by:- North-west & south-east – Existing industrial trade park. North-east and east – Wilson Road with industrial/commercial units beyond. South and west – residential housing off Kipling Avenue. The current development boundary is indicated on the plan included within the Groundsure report presented in Appendix 03.
Site Description	At the time of the inspection on 11th April 2021 the site formed the central section of the existing Trade Park and comprised two existing low rise steel-framed, commercial units surrounded by areas of asphalt and concrete for access and parking. The structures are divided into several smaller retail units, referenced Units 1 to 9, which historically included a paint decoration and plumbing, hire shop, catering and food storage, car repair / MOT garages (pre 2005), furniture outlet, general couriers, clothing manufacturer. A rectangle of maintained grass is located within the northern section of the site. An electricity sub-station is located close to Wilson Road on the north-eastern site boundary. A second smaller sub-station is located to the south-east section adjacent to a gas governor. These are to be retained as part of the proposed development modifications. The north-eastern and south-western boundaries of the site are landscaped and comprise a mix of grass and semi-mature / mature trees. Access into the site is via several junctions from Wilson Road, two of which are located within the proposed development area. Photographs of the site are presented in Appendix 02.
Topography	Although the new topographical survey was not completed before the issue of this report the site appears to be generally level and commensurate with the surrounding topography to the north, east and south-east. The south-western and western boundaries are formed by a grassed bank with localised sections of brick retaining walls which accommodates a 2.0m change in elevation between the site and the gardens of the adjacent residential structures on Kipling Avenue at a higher elevation.

3.0 ENVIRONMENTAL SETTING

3.1 The following sections on the environmental setting of the site are summarised from the GroundSure Enviro Insight Report and a review of the information sources outlined within Section 1.11.

Description	Comments	
Geology (1:50, 000 scale Map Sheet and digital mapping)	Artificial Deposits	None recorded.
	Superficial Deposits	The site is indicated to be underlain by Devensian Glacial Till comprising mainly clay but possibly with interbedded sand and gravel horizons.
	Solid Strata	The drift deposits are underlain by the Pennine Lower Coal Measures strata (PLCM) of Carboniferous age. These are inferred to comprise sandstone, mudstone and siltstone with subordinate seams of coal. The BGS plans indicate that the nearest coal seam are inferred to sub-outcrop around 24m east of the development area, namely the Rushy Park Mine. The coal seams are indicated to strike generally north-west to south-east with a dip of around 50 degrees to the south-west. Therefore, in consideration of the dip direction and presumed angles the Rushy Park Mine underlies the southern area of the proposed development at unknown depths.
	Geological Faults	The closest fault is located immediately north of the site trending north-west to south-east, with downthrow to the south-west and appears to terminate at the north-eastern site boundary. A second fault is located some 24m north-west of the site.
Mining and Subsidence	In consideration of the indicated geology, a Coal Authority (CA) report and Coal Authority Mine Entry Interpretative Report have been obtained and reviewed. The reports, which are presented in Appendix 04, indicate that the property is within an area where no past mining is recorded. However, the CA considers that the extreme east and southern sections of the site are underlain by probable unrecorded shallow mine workings, possible within the Rushy Park Mine seam which is indicated to strike 159 degrees from north-west to south-east immediately south-east of the proposed development area in the southern / south-eastern section of the site. No notice of the risk of the land being affected by subsidence has been given under the Coal Mining Subsidence Act 1991 and the Authority has not received a damage notice or claim for the subject property, or other property within 50m, since records began in 1994. The property has not been subject to remedial works, by or on behalf of the Authority, under its Emergency Surface Hazard Call Out Procedure.	

Description	Comments										
	The CA states that there are two mine entries within the development site, namely:- <table><tr><th>Entry Type</th><th>Reference</th><th>Grid Reference</th><th>Treatment Description</th></tr><tr><td rowspan="2">Shaft</td><td>345390-009</td><td>345443E, 390101N</td><td rowspan="2">None Recorded</td></tr><tr><td>345390-010</td><td>345444E, 390064N</td></tr></table>	Entry Type	Reference	Grid Reference	Treatment Description	Shaft	345390-009	345443E, 390101N	None Recorded	345390-010	345444E, 390064N
	Entry Type	Reference	Grid Reference	Treatment Description							
	Shaft	345390-009	345443E, 390101N	None Recorded							
		345390-010	345444E, 390064N								
	An additional 4no mine shafts and 2no adits are located within the wider site area.										
	However, the Coal Authority Interactive web viewer indicates that there is only one shaft within the area referenced 345390-012 with an assumed shaft diameter of 2.5m, although this is not verified.										
	Therefore to clarify the information a Coal Authority Mine Entry Interpretative Report was also obtained. This indicates, and based on current proposals shaft 345390-09 is inferred to be located within the area of current car parking and the gas governor / smaller electricity sub-station. The Mine Entry report indicates that Units 1 to 9 would be within influencing distance of ground movement associated with this shaft, although risks were noted to be very small.										
	Shaft 345390-010 appears to be at or close to the existing larger factory structure in the southern section of the site and when plotted on web based mapping systems, based on the current coordinates, plots beneath the structure and outside the development boundary. Therefore, the Mine Entry report indicates, that in this position the mine shaft would not pose a risk to the proposed development of Units 1 to 9.										
	There are no historical opencast coal mines located within 250m of the site.										
	The CA interactive web-based viewer confirms that the extreme south-eastern section of the site is located in a 'Development High Risk' area due to probable shallow coal workings.										
The Groundsure report also indicates two similar features obtained from the Britpits records, however, these are indicated to be 4m and 13m north-east located beneath Wilson Road. They are described as coal pits taken from historical maps of 1851. Britpits records identify historical land uses identified from Ordnance Survey mapping that involved ground excavation at the surface. The report states that these features may or may not have been subsequently backfilled.											
Therefore, risks to the development from subsidence relating to shallow, unrecorded abandoned mine workings and mine shafts are considered very low for Units 11 to 19 within the northern structure.											
Notwithstanding the above this risk would be considered moderate for Units 1 to 9 within the most southerly structure, and would need to be clarified through intrusive investigations under licence from the Coal Authority.											
Radon	The property is not in a Radon Affected Area as defined by the UK Health Security Agency as less than 1% of properties are above the Action Level of exposure. Therefore, no radon protection measures are necessary for new structures as described in publication BR211 by the Building Research Establishment.										

Description	Comments	
Hydrogeology	Superficial Aquifer	Secondary Undifferentiated Assigned where it is not possible to attribute either category A or B to a rock type previously designated as both minor and non-aquifer
	Bedrock Aquifer	Secondary (A) Aquifer 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.
	Source Protection Zone (SPZ)	None.
	Groundwater Abstractions within 1km	None.
Hydrology	Surface Water Features within 250m	None.
	Surface Water Abstractions within 1km	None.
Landfill and Waste Management Activity	Active Landfills within 1km	None.
	Historical (EA/Local Authority) Landfill within 500m	The closest historical landfill is located some 91m north-east and was operated by Tushingham Metallic Brickworks to infill the former clay pits and quarry. The 1967 mapping also indicates a refuse tip located 166m north-east.
	Other Waste Sites within 250m	Several waste treatment facilities are located within 250m, the closest relating to Restart Recycling located some 135m north-east at Link Road.

Description	Comments		
Industrial Land Use Information	There are 60no potentially contaminative industrial sites within 250m of the subject site, of which the following are located within the development site boundary.		
	Distance	Location in Site	Activity
	On site	N & SE	2no Electricity sub-stations
		SE	Gas governor
		S	Leather products
		S	Colours, chemicals and water softener supplier
		S	Food , beverage & machinery retailers
S	Civil engineers		
Underground High Pressure Pipelines within 250m		None.	
Petrol Filling Stations within 250m		None.	
Environmental Permits, Incidents and Registers	Permits Incidents/Registers	Distance (m)	Comments
	IPC Authorisations, Part A(1),	250	1no – 173m north Surface treatment of metals/plastic and electrolytic/chemical
	Part A(2) Authorised Activities	250	None
	Part B IPPC Authorised Activities	250	None active
	List 1 or List 2 Dangerous Substances Inventory Sites	250	None
	Radioactive Substance Authorisations	250	None
	Recorded Pollution Incidents	250	3no - 1no of which had a significant impact to land 93m east, no further details are provided
	Contaminated Land - Section 78R of the Environmental Protection Act 1990	250	None

Description	Comments
Potential Flood Risk	Detailed assessment of flood risk is outside the scope of this report. However, reference to the EA website and the Groundsure report indicates that the risk of flooding from rivers and the sea (RoFRaS) is currently designated as very low with risks from groundwater flooding being low.
Environmentally Sensitive Sites	The site is also located within an SSSI Impact Risk Zone Developed to allow assessment of the potential risks to SSSIs posed by development proposals.
Archaeological Information	No archaeological information has been obtained for the purpose of this report. Where considered appropriate, reference should be made to an archaeological consultant in this respect.

4.0 HISTORICAL SETTING

- 4.1 The historical development of the site has been determined by reference to archive Ordnance Survey (OS) map extracts obtained from the GroundSure EnviroInsight Report in Appendix 03.
- 4.2 The earliest complete map dated 1850 indicates the site to have been undeveloped and in rural / agricultural use. Two coal pits were located within 20m of the eastern site boundary and may represent the potential shafts 345390-009 and 345390-010, location discrepancies may be associated with the age of mapping.
- 4.3 By 1891 the coal pits were no longer depicted, but a colliery with associated shafts and adits, was located close to the north-western site boundary. This was noted to be disused by 1907.
- 4.4 By 1956 the southern section of the site had been developed as part of a larger Biscuit Factory to the south of Wilson Road. This included an electricity substation and cooling tanks located at the north-eastern extent of the structure. An access road extend roughly north-east to south-west across the central section of the site. By 1968 the factory had been extended to the north and the cooling tanks appeared to have been removed.
- 4.5 The site remained relatively unchanged until some-time prior to 1980 when a series of tanks (of unknown use) were located to the north of the factory between the two access roads into the site. An additional electricity sub-station had also been constructed in its current position close to Wilson Road on the sites northern extents.
- 4.6 The structures in their current configuration were constructed by 1993, which comprise partial demolition of the former biscuit factory and construction of the two low rise retail units. By this time the smaller electricity sub-station and the gas governor were depicted in the south-eastern section of the site adjacent to Wilson Road.
- 4.7 The former tanks appear to be located in the area of the grass landscaping within the northern section of the site during the recent 2021 site inspection. It is not known if these were above or below ground and if below ground it is not known if these have been decommissioned or removed.
- 4.8 The area immediately surrounding the site historically comprised undeveloped rural/agricultural land until the 1960's, when widespread residential development occurred to the south and industrial / commercial development to the north and south-east along Wilson Road. Historic industrial development in the wider surrounding area included:-
- Coal Pits – 14m – 20m east
 - Colliery and shafts – 25m west
 - National Switch Factory – 50m north-east
 - British Vacuum Flask Factory – 50m north-east
 - Clay pits – 150m north
- 4.9 Therefore, on the basis of the previous site use, no significant widespread sources of ground contamination are envisaged. However, the potential for more localised contamination associated with historic (possible) fuel storage tanks, cannot be discounted beneath the grassed area of the site. In addition due to its age the soils beneath the former electricity sub-station in the central section of the site associated with the biscuit factory, may also contain localised sources of polychlorinated biphenyls (PCBs) historically used in power generation and transmission equipment.
- 4.10 The sub-stations constructed around 1980 along Wilson Road, would likely have been constructed after the use of PCB's were banned.
- 4.11 The presence of Asbestos Containing Materials (ACM) within near surface made ground and/or the existing buildings cannot be discounted.

- 4.12 There is also the potential for ground gas to impact on the proposed development from possible shallow mine workings.
- 4.13 However, further information pertaining to these considerations are provided in Sections 5.0 associated with previous investigations undertaken across the site.

5.0 PREVIOUS REPORTS AND INVESTIGATIONS

Overview

5.1 The following reports have been obtained either from the client and have been reviewed and summarised below.

- Phase 1 Desk Desktop Study Report, reference AS/SH2014E, dated February 2009, by RoC Consulting;
- Phase 2 Site Investigation Report, referenced AS/ROC/p2 2014E, dated September 2009, by RoC, Consulting;
- Addendum Phase 2 Site Investigation Letter Report, referenced AS/bl/201109, dated November 2009 2012, by RoC, Consulting.

5.2 The following paragraphs provide a brief summary of the salient issues highlighted in the above documents. The reports have not been reproduced as part of this desk study.

RoC Desk Study – February 2009

5.3 The RoC report comprised a desk study for the anticipated construction of a new industrial unit in the central section of the subject site and refurbishment of the existing units. However, the site plans indicate that the extreme southern section of the current red-line development boundary was excluded from this report.

5.4 At the time of the report the site area was developed in the most recent configuration.

5.5 The report included a review of the BGS plans which recorded that the site was underlain by Glacial Till underlain by Pennine Lower Coal Measures (PLCM).

5.6 The RoC report obtained a coal authority report which indicated that the site was not indicated to be underlain by past recorded or unrecorded shallow mine workings. The 2009 report also indicated the potential presence of only 1no mine shaft entry either at or close to the south-eastern site boundary away from the formerly proposed development area. Based on this information it would appear that the Coal Authority have since updated their records as represented in Appendix 04.

5.7 The report also indicated discussions with the site caretaker who had indicated that the surface hardstanding across the site had been noted to have required improvement modifications in recent years with improved sub base and asphalt thicknesses. The report also indicates that the former MOT test bays were also infilled.

5.8 The report concluded that the site presented a low to medium risk to future end users from historical and current industrial activity and a Low risk to controlled waters.

RoC – Phase 2 Investigation September 2009

5.9 Subsequently, RoC undertook intrusive investigations primarily to determine risks associated with ground contamination and ground gas. The intrusive investigation comprised the formation of 1no cable percussive borehole and 5no window sample probe-holes.

5.10 The exploratory holes encountered either topsoil or hardstanding overlying made ground to depths of between 0.20 and 1.20mbgl comprising mixed cohesive and loose sandy gravel of brick, concrete, sandstone and asphalt. Locally the made ground was underlain by firm clay to depths of around 2.60mbgl. The made ground and Glacial Clay, where encountered were underlain by mudstone of the PLCM at depths of between 0.30m to 2.60mbgl.

5.11 The report also noted steel reinforced concrete flooring and historical floor slabs within WS2 to WS4 from ground level to depths of around 0.50mbgl, where the hardstanding could not be broken out.

- 5.12 No groundwater was encountered during the investigations. However, Perched groundwater was encountered at depths of between 0.84m and 1.35mbgl during subsequent monitoring visits.
- 5.13 The Phase 2 report noted that information from the Coal Authority for this development boundary indicated that any mine workings beneath the site were not considered to be within influencing distance of the sites' surface. However, it should be noted that this site boundary did not extend as far south-east as the current development area. In addition the position and the number of Coal Authority anticipated mine shafts has increased and their locations have been updated since the issue of the report.
- 5.14 Chemical analysis was undertaken on 9no samples of shallow site soils for metals, inorganics and petroleum hydrocarbons. When compared to the current LQM/S4UL reference values for a 'Commercial' end use, assuming a 1% SOM, no elevated concentrations of Contaminants of Concern (CoC's) were recorded.
- 5.15 However, the chemical analyses did not include asbestos screening within the soil samples. Therefore, it is current not known if the shallow made ground contains asbestos from historical demolition.
- 5.16 Three gas monitoring visits were undertaken as part of this investigation, with methane concentrations of less than 0.1% by volume in air (v/v) and carbon dioxide concentrations of up to 0.4% v/v recorded. Positive flow rates of between 0.8 and 0.90l/hr were also detected.

RoC – Addendum Letter Report – November 2009

- 5.17 Subsequently, the ground gas monitoring was completed by RoC in November 2009 and subject to an updated Ground Gas Risk Assessment.
- 5.18 The additional monitoring reported a total of five gas monitoring visits between August and November 2009, with methane concentrations of less than 0.1% by volume in air (v/v) and carbon dioxide concentrations of up to 0.7% v/v recorded. Positive flow rates of between 0.3 and 0.90l/hr were also detected.

6.0 PRELIMINARY CONTAMINATION RISK ASSESSMENT

Introduction

- 6.1 The following paragraphs outline a Preliminary Risk Assessment (PRA) for the site as defined by DEFRA and the EA Model Procedures for Land Contamination Risk Assessment, October 2020.
- 6.2 The table in Paragraph 5.4 provides a Preliminary Conceptual Model (PCM) which defines the site in terms of a potential pollution linkage, that is, whether a pathway exists between a contamination source and a sensitive environmental receptor (Source-Pathway-Receptor relationship).
- 6.3 The table considers whether a pollution linkage is potentially present or not and provides a preliminary qualitative assessment of risk, based on the information currently available and in accordance with guidance provided in the CIRIA document C552 (2001) Contaminated Land Risk Assessment – A Guide to Good Practice. The risk evaluation process is described further in Appendix 06.
- 6.4 Where a possible linkage is identified, it does not necessarily mean that a significant risk exists, but indicates that further information is required through appropriate site investigation to substantiate the conceptual model.

Source	Pathway	Receptor	Probability of Linkage	Comment
From the desk study information and review of historical investigations, widespread significant sources of ground contamination beneath the site are considered unlikely. However, the presence of Asbestos Containing Materials (ACM) cannot also be discounted.	Direct contact, ingestion of soil, dermal contact, dust exposure pathways.	Current Site Users	Low	The site is surfaced with hardstanding with only localised grassed landscaping and with a transient commercial use. Therefore, the risk to current site users is considered LOW .
		Site End Users	Low	The provision of new buildings and hard cover will break any direct pollution linkage. Although localised landscaping will remain around the site perimeter, the consequence of any limited exposure is considered mild with a resulting LOW preliminary risk.
		Construction Workers	Unlikely	Construction workers are unlikely to be exposed to significantly contaminated soils during earthworks and foundation construction. Also, the exposure time will be relatively short with any contamination risks being mitigated by adopting good site working practices including appropriate health and safety measures during the works, thus providing a VERY LOW preliminary risk.

Source	Pathway	Receptor	Probability of Linkage	Comment
		Adjacent land users	Unlikely	Direct contact via wind-blown dust/debris, particularly during the development phase is possible although the exposure time would be relatively short. The current risk is considered VERY LOW , although this could increase during construction works. Appropriate health and safety measures adopted during site development will ensure that the risk remains low.
Based on the results of the previous investigations, the likelihood of widespread significant soluble and/or liquid, and therefore mobile contaminants occurring at the site due to its past use is considered low.	Direct downward migration through leaching and/or mobile liquids.	Groundwater	Low	The site is indicated to be underlain by a Secondary A Aquifer. The aquifer is not considered to be of strategic importance and the intervening Undifferentiated Aquifer of the cohesive Glacial Till would limit any downward migration of localised contamination sources. Therefore, the preliminary risk to groundwater is considered LOW .
	Off-site migration in groundwater or surface water flow.	Surface water	No linkage envisaged	There are no surface water features within 250m of the site. Therefore, the risk to surface water is considered VERY LOW .
		Groundwater and surface water abstractions	No linkage envisaged.	The site is not located within an SPZ and there are no active groundwater or surface water abstractions within 500m of the site. Therefore, risks to groundwater/surface water abstractions are considered VERY LOW .
		Adjacent Properties	Unlikely	The presence of mobile contaminants cannot be wholly discounted, although the impermeable nature of the Glacial Till and Coal Measure strata will significantly inhibit lateral migration. Therefore, the preliminary perceived risk to adjacent properties is assessed as LOW .
		Ecology	No linkage envisaged	There are no ecologically sensitive sites within influencing distance of the subject site. The risk to the surrounding ecology from any contamination arising from the site is therefore considered VERY LOW .
Based on the previous stages of site investigation the likelihood of widespread and significant volatile contaminants occurring at the site due to its past use is considered low.	Inhalation of harmful vapours (indoor and outdoor airspaces)	Current Site Users	No linkage anticipated	No significant sources of volatile contaminants are envisaged with site use being transient. Therefore the current risk from inhalation of indoor/outdoor air is considered VERY LOW .
		Site End Users	Low	Significant sources of volatile contaminants at the site are not anticipated. Therefore the preliminary risk from inhalation of indoor/outdoor air is considered LOW .

Source	Pathway	Receptor	Probability of Linkage	Comment
		Construction Workers	Unlikely	In the unlikely event of construction workers coming into contact with possible volatile compounds, the exposure time will be relatively short. The chronic exposure risk to construction workers, assuming that appropriate health and safety measures will be adopted, is therefore considered LOW .
		Adjacent Properties	Low	Significant sources of volatile contaminants at the site are not anticipated but cannot be wholly discounted at this stage. Therefore, the preliminary risk to adjacent properties and users is assessed as LOW .
No significant organic and/or degradable materials with the potential of generate hazardous ground gas in significant volumes have been encountered in previous investigations. The investigations recorded low concentrations of methane and carbon dioxide.	Emissions from the ground beneath the site collecting in confined spaces and excavations	Construction/ services maintenance workers	Low	The potential to generate significant volumes of toxic and/ or flammable/ explosive gas beneath the site is considered low. Assuming that appropriate health and safety measures will be adopted during construction, the preliminary risk is therefore considered LOW .
	Migration of gases on/off site and collecting in confined spaces on/off site.	Adjoining site users	Unlikely	In consideration of the age of any potential infilling, the likelihood of significantly volumes of ground gas arising from the site to migrate to adjoining properties is considered low. Therefore, the preliminary risk to adjacent properties from the site is considered LOW .
		Current/future site users	Low	The potential to generate significant volumes of ground gas beneath the site is low with more moderate risks associated with the potential presence of mine gas within any underlying shallow workings. The potential risk to current and future site users is therefore considered LOW/MODERATE .
The site is not within an area which is affected by naturally occurring radon gas.	Natural emissions from the ground collecting in confined spaces within buildings	Site end users	No linkage envisaged	The site is not located in an area where radon protection measures are required. Therefore the potential risk to site end users is considered VERY LOW .
Based on the results of previous investigations, chemicals which could prove aggressive to construction materials are unlikely to be present beneath the site.	Direct contact	Construction concrete, plastic water pipes.	Unlikely	Any risks to construction materials identified after site investigation and assessment will be mitigated as part of the structural design. The perceived risk is therefore considered LOW .

Preliminary Risk Assessment

- 6.5 Previous investigations have not recorded significant and widespread concentrations of contaminants of concern. Therefore, under the proposed development scenario, potential contamination linkages are on the whole considered unlikely with associated preliminary risks being assessed as low.
- 6.6 However, previous chemical analyses were undertaken over a slightly different development boundary. Therefore, further analysis of made ground for contaminants of concern including the presence of ACM and/or asbestos fibres should be undertaken.
- 6.7 Based on the previous monitoring results, the potential, for ground gas to impact on the proposed development from on-site sources and migration from surrounding areas is considered low, but cannot be fully discounted due to the changes in proposed development area.
- 6.8 Therefore, further ground investigations are also considered necessary to verify the conceptual model, investigate areas outside the former boundary and to provide a Generic Quantitative Risk Assessment (GQRA) under current assessment criteria.

7.0 PRELIMINARY GEOTECHNICAL AND OTHER CONSIDERATIONS

Preliminary Geotechnical Considerations

Geotechnical	Summary
Coal Mining Subsidence	Units 11 to 19 are considered to be outside the zone of influence from potential unrecorded shallow workings and mine shafts. However, based on the Coal Authority information, the potential for coal seams and/or abandoned mine workings to occur beneath the southern / south-eastern section of the site, namely Units 1 to 10, cannot be wholly discounted at this stage. The requirement for treatment of shallow mine workings in advance of the development cannot therefore be discounted beneath the southern and eastern areas. The Coal Authority have also identified the presence of two mine shafts at the site but the exact location and scale of any remediation is current unknown. The requirement for treatment of previously mine shafts in advance of the development therefore cannot be discounted. Current guidance within CIRIA C758D 'Abandoned Mine Workings Manual' indicates that new structures should be located around the site in order to maintain a safety zone around each shaft. The safety zone should ensure a clearance subtended by an angle of 45° to the surface from the sides of the shaft where it intersects rockhead. Based on the current proposals shaft 345390-09 is inferred to be located within the area of current car parking and the gas governor / smaller electricity sub-station. The Mine Entry report indicates that Units 1 to 9 would be within influencing distance of ground movement associated with the shaft, although risks were noted to be very small. Shaft 345390-010 appears to be at or close to the existing larger factory structure in the southern/eastern section of the site and the Mine Entry report indicates, that in this position, the mine shaft would not pose a risk to the proposed development of Units 1 to 9.
Ground Obstructions	Existing floor slabs and foundations to the former structures will need to be broken out to suitable depths below formation levels where they are to impinge on the proposed redevelopment. Demolition rubble, existing concrete hardstanding and below ground foundations removed as part of the clearance work, subject to appropriate screening and crushing, will be suitable for re-use as bulk fill beneath hard cover areas, subject to appropriate compliance testing.
Hydrocarbon Storage Tanks and Electricity Sub-Stations	Prior to development, any suspected underground storage tanks, and associated pipe work, where encountered, should be appropriately decommissioned and removed by a specialist contractor. The extent of any historic spillages/leakages from such tanks or any other identified contamination sources should also be determined by surface and ground investigation, with any

Geotechnical	Summary
	identified contamination sources being subject to an agreed remediation strategy for the site. The electricity sub-stations and gas governor are to be retained as part of the development.
Foundations and Floor Slabs	Based on the previous investigations traditional foundations may be suitable for the support of new structures at the site. However, foundations may need to be extended to greater depths through any made ground or Glacial Till and onto the PLCM, or be suitably reinforced, to mitigate any differential settlement associated with changes in strata. Foundations for Units 1 to 9 may also need to take account of possible residual differential movements resulting from treated shallow mine workings. Alternatively, the structure for Units 1 to 9 could be constructed on a fully reinforced raft foundation, balanced against a possible reduction in the extent and cost of rotary investigations and ground treatment works. As cohesive soils associated with completely weathered mudstone are anticipated, the possible effects of clay shrinkage/heave from remaining tree root action or tree removal on building foundations / floor slabs will need to be considered.
Soakaways	In view of the relatively impermeable nature of the Glacial Till and PLCM, soakaways are not considered suitable as a drainage solution for the new development.

Other Considerations

Other	Summary
Asbestos Survey	No demolition should proceed until an appropriate Asbestos survey of the existing buildings has been undertaken and any ACM removed by an appropriately licensed contractor.

8.0 SUMMARY AND RECOMMENDATIONS

Development Considerations	Comments
Shallow Coal Mining	The risk from subsidence relating to abandoned shallow mine workings is considered low within the northern section of the site and moderate in the southern sections beneath the locations of Units 1 to 9, with these proposed units being subject to further investigation. Due to the shallow nature of rockhead, investigations may need to comprise rotary drilled boreholes to anticipated depths of 30.00mbgl under a Coal Authority permit.
Flood Risk	Very Low.
Ground Obstructions	Existing foundations to the former structures will need to be broken out to suitable depths below formation levels where they are to impinge on the proposed redevelopment.
Foundations	Based on the previous investigations traditional foundations may be suitable for the support of new structures at the site. Alternatively, the structure for Units 1 to 9 could be constructed on a fully reinforced raft foundation, balanced against a possible reduction in the extent and cost of rotary investigations and ground treatment works.
Ground Contamination	The overall risk from ground contamination is considered low. This will need to be confirmed by ground investigation and chemical analysis.
Hazardous Ground Gas	A low risk to the proposed development from ground gas is assessed although uncertainties in the conceptual model will need to be verified by ground investigation.
Radon	No radon protection measures are required.
Soakaway Drainage	Soakaways are not considered to be a feasible drainage option at this stage.

Site Investigation

- 8.1 Site investigations will be necessary to provide information on the physical and chemical ground conditions. This will enable assumptions made in the preliminary site conceptual model to be confirmed or modified so as to assess the actual environmental risks posed by the site.
- 8.2 The investigation will comprise sampling and chemical analysis of the near surface soil and possibly groundwater.
- 8.3 Ground investigations in the form of rotary drilling, undertaken under a Coal Authority Permit, within the solid strata are also required to provide a fuller understanding of the site geology and hence the nature and occurrence of coal and any related abandoned shallow mine workings beneath the southern section of the site.

- 8.4 The investigation should also comprise the installation of ground gas monitoring standpipe with subsequent monitoring for hazardous ground gas concentrations and flow together with groundwater measurements.
- 8.5 Ground investigations will also provide parameters for the preliminary consideration of foundations, floor slabs and external pavements.
- 8.6 Site investigations will be undertaken in accordance with British Standard Institution (BSI), Code of Practice for Ground Investigations – BS5930:2015 + A1:2020 and Investigation of Potentially Contaminated Sites – Code of Practice. BS 10175:2011 + A2:2017.

APPENDIX 01

Drawings

APPENDIX 02

Site Photographs



Photograph 1
View north-west towards residential structures on Kipling Avenue.



Photograph 2
Typical section of brick retaining wall to the south-western site boundary.



Photograph 3
View south across western site boundary.



Photograph 4
Mixed concrete and asphalt hardstanding in the western site area.



Photograph 5
View south across northern site area.



Photograph 6
Single-storey steel frames structure close to the south-western site boundary.



Photograph 7
Larger of the two electricity sub-stations, adjacent to Wilson Road
at the north-eastern site boundary.



Photograph 8
Existing access from Wilson Road in the north-east.



Photograph 9
View south-west across southern section of the development area.



Photograph 10
Smaller of the two electricity sub-stations close to the gas governor on the north-eastern site boundary with Wilson Road.



Photograph 11
Gas governor adjacent to the electricity sub-station.



Photograph 12
Typical structures in the central site area.

APPENDIX 03

Groundsure Enviroinsight Report

INTERCHANGE MOTORWAY ESTATE, WILSON ROAD, HUYTON, L36 6JG**Order Details**

Date: 12/04/2021
Your ref: 9333G_-_Huyton
Our Ref: GS-7735272
Client: WML Consulting

Site Details

Location: 345347 390124
Area: 2.1 ha
Authority: [Knowsley Metropolitan Borough Council](#)

**Summary of findings**

p. 2

Aerial image

p. 8

OS MasterMap site plan

p.13

groundsure.com/insightuserguide

Contact us with any questions at:

info@groundsure.com

08444 159 000

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
<u>14</u>	<u>1.1</u>	<u>Historical industrial land uses</u>	3	11	39	82	-
<u>19</u>	<u>1.2</u>	<u>Historical tanks</u>	5	0	10	48	-
<u>22</u>	<u>1.3</u>	<u>Historical energy features</u>	6	1	10	31	-
24	1.4	Historical petrol stations	0	0	0	0	-
<u>24</u>	<u>1.5</u>	<u>Historical garages</u>	0	0	0	5	-
25	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped	On site	0-50m	50-250m	250-500m	500-2000m
<u>26</u>	<u>2.1</u>	<u>Historical industrial land uses</u>	3	11	49	97	-
<u>32</u>	<u>2.2</u>	<u>Historical tanks</u>	6	0	15	106	-
<u>37</u>	<u>2.3</u>	<u>Historical energy features</u>	12	6	19	83	-
42	2.4	Historical petrol stations	0	0	0	0	-
<u>42</u>	<u>2.5</u>	<u>Historical garages</u>	0	0	0	7	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
43	3.1	Active or recent landfill	0	0	0	0	-
43	3.2	Historical landfill (BGS records)	0	0	0	0	-
<u>44</u>	<u>3.3</u>	<u>Historical landfill (LA/mapping records)</u>	0	0	2	0	-
<u>44</u>	<u>3.4</u>	<u>Historical landfill (EA/NRW records)</u>	0	0	1	2	-
<u>45</u>	<u>3.5</u>	<u>Historical waste sites</u>	0	0	0	9	-
<u>47</u>	<u>3.6</u>	<u>Licensed waste sites</u>	0	0	4	13	-
<u>53</u>	<u>3.7</u>	<u>Waste exemptions</u>	0	1	12	16	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
<u>56</u>	<u>4.1</u>	<u>Recent industrial land uses</u>	6	7	47	-	-
60	4.2	Current or recent petrol stations	0	0	0	0	-
61	4.3	Electricity cables	0	0	0	0	-
61	4.4	Gas pipelines	0	0	0	0	-
61	4.5	Sites determined as Contaminated Land	0	0	0	0	-



61	4.6	<u>Control of Major Accident Hazards (COMAH)</u>	0	0	0	1	-
62	4.7	Regulated explosive sites	0	0	0	0	-
62	4.8	<u>Hazardous substance storage/usage</u>	0	0	1	1	-
62	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
63	4.10	<u>Licensed industrial activities (Part A(1))</u>	0	0	1	3	-
63	4.11	<u>Licensed pollutant release (Part A(2)/B)</u>	0	0	6	3	-
65	4.12	Radioactive Substance Authorisations	0	0	0	0	-
65	4.13	<u>Licensed Discharges to controlled waters</u>	0	0	0	9	-
66	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
67	4.15	Pollutant release to public sewer	0	0	0	0	-
67	4.16	List 1 Dangerous Substances	0	0	0	0	-
67	4.17	List 2 Dangerous Substances	0	0	0	0	-
67	4.18	<u>Pollution Incidents (EA/NRW)</u>	0	0	3	13	-
69	4.19	Pollution inventory substances	0	0	0	0	-
69	4.20	Pollution inventory waste transfers	0	0	0	0	-
70	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
71	5.1	<u>Superficial aquifer</u>	Identified (within 500m)				
73	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
75	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
76	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
76	5.5	Groundwater vulnerability- local information	None (within 0m)				
77	5.6	<u>Groundwater abstractions</u>	0	0	0	0	3
78	5.7	<u>Surface water abstractions</u>	0	0	0	0	4
80	5.8	<u>Potable abstractions</u>	0	0	0	0	3
81	5.9	<u>Source Protection Zones</u>	0	0	0	1	-
81	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
82	6.1	Water Network (OS MasterMap)	0	0	0	-	-



82	6.2	Surface water features	0	0	0	-	-
83	6.3	<u>WFD Surface water body catchments</u>	1	-	-	-	-
83	6.4	<u>WFD Surface water bodies</u>	0	0	0	-	-
84	6.5	WFD Groundwater bodies	0	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
85	7.1	Risk of Flooding from Rivers and Sea (RoFRaS)	None (within 50m)				
85	7.2	Historical Flood Events	0	0	0	-	-
85	7.3	Flood Defences	0	0	0	-	-
85	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
86	7.5	Flood Storage Areas	0	0	0	-	-
87	7.6	Flood Zone 2	None (within 50m)				
87	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
88	8.1	<u>Surface water flooding</u>	1 in 30 year, 0.1m - 0.3m (within 50m)				
Page	Section	Groundwater flooding					
90	9.1	<u>Groundwater flooding</u>	Low (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
91	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
92	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
92	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
92	10.4	Special Protection Areas (SPA)	0	0	0	0	0
92	10.5	National Nature Reserves (NNR)	0	0	0	0	0
93	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
93	10.7	<u>Designated Ancient Woodland</u>	0	0	0	0	2
93	10.8	Biosphere Reserves	0	0	0	0	0
93	10.9	Forest Parks	0	0	0	0	0
94	10.10	Marine Conservation Zones	0	0	0	0	0
94	10.11	<u>Green Belt</u>	0	0	0	1	2
94	10.12	Proposed Ramsar sites	0	0	0	0	0



94	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
95	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
95	10.15	Nitrate Sensitive Areas	0	0	0	0	0
95	10.16	<u>Nitrate Vulnerable Zones</u>	1	0	0	0	3
96	10.17	<u>SSSI Impact Risk Zones</u>	1	-	-	-	-
97	10.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
98	11.1	World Heritage Sites	0	0	0	-	-
98	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
98	11.3	National Parks	0	0	0	-	-
98	11.4	Listed Buildings	0	0	0	-	-
99	11.5	Conservation Areas	0	0	0	-	-
99	11.6	Scheduled Ancient Monuments	0	0	0	-	-
99	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
100	12.1	<u>Agricultural Land Classification</u>	Urban (within 250m)				
101	12.2	Open Access Land	0	0	0	-	-
101	12.3	Tree Felling Licences	0	0	0	-	-
101	12.4	Environmental Stewardship Schemes	0	0	0	-	-
101	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
102	13.1	Priority Habitat Inventory	0	0	0	-	-
102	13.2	Habitat Networks	0	0	0	-	-
103	13.3	<u>Open Mosaic Habitat</u>	1	0	0	-	-
103	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
104	14.1	<u>10k Availability</u>	Identified (within 500m)				
105	14.2	Artificial and made ground (10k)	0	0	0	0	-
106	14.3	<u>Superficial geology (10k)</u>	0	1	0	1	-



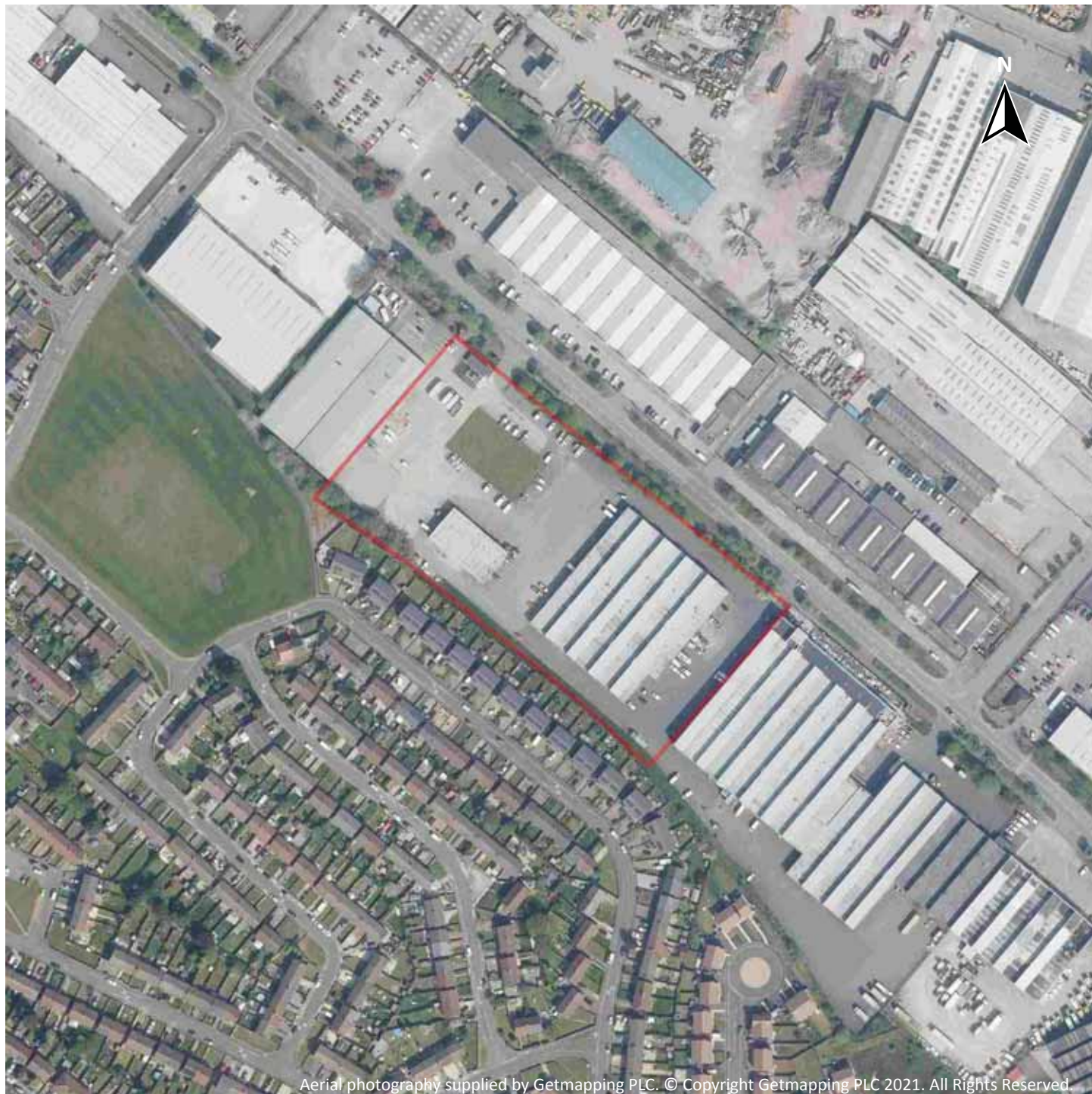
107	14.4	Landslip (10k)	0	0	0	0	-
108	14.5	<u>Bedrock geology (10k)</u>	0	1	1	8	-
109	14.6	<u>Bedrock faults and other linear features (10k)</u>	0	0	3	14	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
111	15.1	<u>50k Availability</u>	Identified (within 500m)				
112	15.2	Artificial and made ground (50k)	0	0	0	0	-
112	15.3	Artificial ground permeability (50k)	0	0	-	-	-
113	15.4	<u>Superficial geology (50k)</u>	1	0	0	0	-
114	15.5	<u>Superficial permeability (50k)</u>	Identified (within 50m)				
114	15.6	Landslip (50k)	0	0	0	0	-
114	15.7	Landslip permeability (50k)	None (within 50m)				
115	15.8	<u>Bedrock geology (50k)</u>	1	0	3	11	-
116	15.9	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
117	15.10	<u>Bedrock faults and other linear features (50k)</u>	0	3	7	20	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
119	16.1	BGS Boreholes	0	0	0	-	-
Page	Section	Natural ground subsidence					
120	17.1	<u>Shrink swell clays</u>	Very low (within 50m)				
121	17.2	<u>Running sands</u>	Very low (within 50m)				
123	17.3	<u>Compressible deposits</u>	Negligible (within 50m)				
124	17.4	<u>Collapsible deposits</u>	Very low (within 50m)				
125	17.5	<u>Landslides</u>	Very low (within 50m)				
127	17.6	<u>Ground dissolution of soluble rocks</u>	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
129	18.1	Natural cavities	0	0	0	0	-
130	18.2	<u>BritPits</u>	0	0	1	1	-
130	18.3	<u>Surface ground workings</u>	0	2	30	-	-
132	18.4	<u>Underground workings</u>	0	0	8	0	30
133	18.5	<u>Historical Mineral Planning Areas</u>	0	1	1	0	-



134	18.6	<u>Non-coal mining</u>	0	0	0	2	0
134	18.7	Mining cavities	0	0	0	0	0
134	18.8	JPB mining areas	None (within 0m)				
135	18.9	<u>Coal mining</u>	Identified (within 0m)				
135	18.10	Brine areas	None (within 0m)				
135	18.11	Gypsum areas	None (within 0m)				
135	18.12	Tin mining	None (within 0m)				
135	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
136	19.1	<u>Radon</u>	Less than 1% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
137	20.1	<u>BGS Estimated Background Soil Chemistry</u>	1	2	-	-	-
137	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
137	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
138	21.1	Underground railways (London)	0	0	0	-	-
138	21.2	Underground railways (Non-London)	0	0	0	-	-
139	21.3	Railway tunnels	0	0	0	-	-
139	21.4	<u>Historical railway and tunnel features</u>	0	0	9	-	-
139	21.5	Royal Mail tunnels	0	0	0	-	-
140	21.6	Historical railways	0	0	0	-	-
140	21.7	Railways	0	0	0	-	-
140	21.8	Crossrail 1	0	0	0	0	-
140	21.9	Crossrail 2	0	0	0	0	-
140	21.10	HS2	0	0	0	0	-



Recent aerial photograph



Aerial photography supplied by Getmapping PLC. © Copyright Getmapping PLC 2021. All Rights Reserved

Capture Date: 22/04/2019

Site Area: 2.1ha



Recent site history - 2015 aerial photograph



Capture Date: 11/06/2015

Site Area: 2.1ha



Recent site history - 2009 aerial photograph



Capture Date: 24/06/2009

Site Area: 2.1ha



Recent site history - 2005 aerial photograph



Capture Date: 02/09/2005

Site Area: 2.1ha



Recent site history - 2000 aerial photograph



Capture Date: 21/07/2000

Site Area: 2.1ha



OS MasterMap site plan

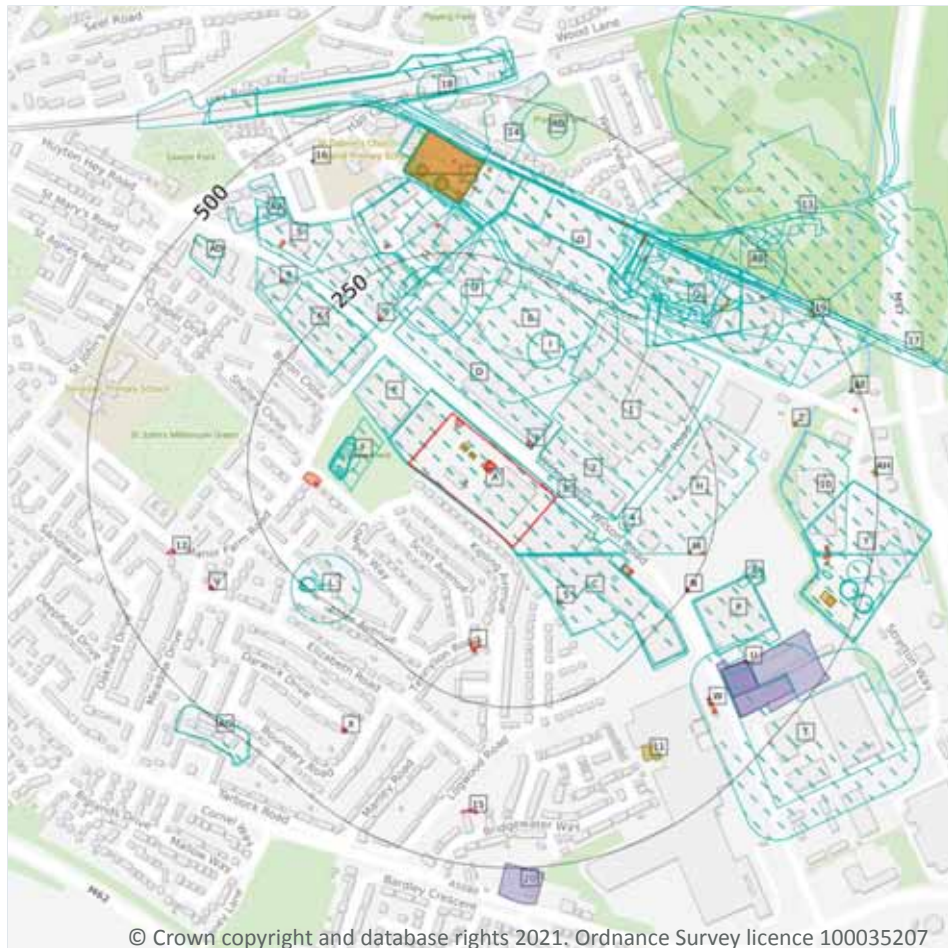


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Site Area: 2.1ha



1 Past land use



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features
- Historical garages

1.1 Historical industrial land uses

Records within 500m

135

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
A	On site	Unspecified Factory	1975	889546



ID	Location	Land use	Dates present	Group ID
A	On site	Unspecified Factory	1966	891030
A	On site	Unspecified Factory	1990	928277
B	4m NE	Coal Pits	1851	802131
B	13m NE	Coal Pits	1851	802130
C	14m S	Unspecified Commercial/Industrial	1975	950037
C	17m SE	Unspecified Commercial/Industrial	1989	918977
1	21m NE	Unspecified Works	1975	875478
C	25m SE	Unspecified Commercial/Industrial	1967	942003
2	31m NE	Unspecified Factory	1966	821341
D	33m NE	Unspecified Commercial/Industrial	1975	796697
D	33m NE	Unspecified Works	1966	907728
E	47m NW	Unspecified Warehouse	1975	855684
E	47m NW	Unspecified Warehouse	1990	963868
F	51m NW	Colliery	1891	798239
G	65m NE	Unspecified Works	1966	978443
F	76m W	Unspecified Ground Workings	1891	799820
F	87m W	Unspecified Heap	1906 - 1925	924490
F	88m W	Unspecified Heap	1925	930091
F	88m W	Unspecified Heap	1955	909535
F	89m W	Unspecified Heap	1938	960005
F	92m W	Unspecified Old Shafts	1955	793283
F	100m W	Unspecified Old Shafts	1955	793284
F	101m W	Unspecified Old Shafts	1955	793285
F	103m W	Unspecified Old Shaft	1906 - 1925	991781
F	104m W	Unspecified Old Shaft	1925 - 1938	927480
4	104m E	Unspecified Heap	1966	803345
H	112m E	Unspecified Warehouse	1975	807172
G	118m N	Unspecified Warehouse	1990	807171



ID	Location	Land use	Dates present	Group ID
6	121m NE	Unspecified Pit	1966	845345
G	124m N	Unspecified Tank	1966	904633
I	140m NE	Unspecified Quarry	1990	854655
I	140m NE	Unspecified Quarry	1975	908063
C	148m SE	Coal Pit	1851	808456
K	154m NW	Unspecified Commercial/Industrial	1975	796698
G	165m NW	Brick Fields	1975	832437
K	179m NW	Brick Works	1955	933903
L	180m SW	Unspecified Old Shaft	1950	985464
I	181m NE	Unspecified Pit	1966	960973
K	182m NW	Unspecified Depot	1966	818271
G	192m N	Unspecified Pit	1966	839702
G	196m NW	Brick Works	1938	987727
G	208m N	Unspecified Ground Workings	1906	799819
G	212m N	Chair Making Works	1955	990065
G	213m N	Chair Making Works	1938	866159
L	230m SW	Unspecified Heap	1938 - 1950	989507
L	232m SW	Unspecified Old Shaft	1938	956264
L	232m SW	Unspecified Old Shaft	1938	970700
L	234m SW	Unspecified Heap	1925	901373
L	235m SW	Unspecified Heap	1906 - 1925	878100
L	250m SW	Unspecified Old Shaft	1925	872095
L	250m SW	Unspecified Old Shaft	1925	935194
L	250m SW	Unspecified Old Shaft	1906	972592
O	253m NE	Unspecified Works	1966	873615
O	253m NE	Unspecified Works	1990	950861
O	253m NE	Unspecified Factory	1966 - 1975	969058
P	265m SE	Unspecified Warehouse	1975	987780



ID	Location	Land use	Dates present	Group ID
P	270m SE	Unspecified Warehouse	1989	934162
Q	270m NE	Timber Yard and Saw Mill	1955	826725
Q	271m NE	Iron Works	1906	889004
Q	283m NE	Unspecified Mill	1966	810244
R	292m N	Unspecified Works	1938	978330
O	295m N	Electric Lamp Works	1925	846896
R	295m N	Pottery	1906	818628
R	296m N	Electric Lamp Works	1955	872339
R	300m N	Unspecified Commercial/Industrial	1975	929619
Q	301m NE	Iron Works	1891	846158
Q	301m NE	Unspecified Ground Workings	1906	969063
Q	307m NE	Unspecified Depot	1975	961971
Q	311m NE	Unspecified Depot	1990	910233
8	311m SE	Corn Mill	1851	823124
Q	314m NE	Pits	1851	794106
Q	314m NE	Unspecified Ground Workings	1891	960123
O	314m NE	Electric Lamp Works	1906 - 1938	851119
S	315m NW	Unspecified Works	1966	830188
Q	321m NE	Unspecified Ground Workings	1906	904043
R	326m N	Chair Making Works	1925	932280
R	326m N	Chair Making Works	1925	986489
R	326m N	Unspecified Commercial/Industrial	1906	920735
R	328m N	Gas Works	1891	802198
Q	334m NE	Unspecified Ground Workings	1925 - 1938	954430
T	336m SE	Unspecified Works	1975	945342
Q	337m NE	Unspecified Ground Workings	1955	990672
Q	337m NE	Railway Sidings	1906	916677
R	349m N	Unspecified Tank	1938	883928



ID	Location	Land use	Dates present	Group ID
R	349m N	Unspecified Tank	1906 - 1925	977147
R	349m N	Unspecified Tank	1925	939112
10	350m E	Unspecified Depot	1990	818270
R	350m N	Gasometer	1891	809737
Q	353m NE	Unspecified Quarry	1906	934563
R	354m NE	Railway Sidings	1891	924318
R	372m N	Unspecified Tank	1938	909229
R	372m N	Unspecified Tank	1906 - 1925	950957
R	373m N	Gasometer	1891	809738
T	379m SE	Unspecified Works	1989	934148
R	379m NE	Railway Sidings	1955	905446
Q	383m NE	Railway Sidings	1851	959646
Y	385m E	Sewage Works	1925 - 1947	966970
Y	390m E	Sewage Works	1955	959491
R	393m N	Railway Sidings	1966 - 1975	894061
R	394m N	Mineral Railway Sidings	1925	834017
13	400m NE	Unspecified Disused Workings	1966	842253
Q	400m NE	Railway Sidings	1955	896484
14	401m N	Unspecified Quarry	1891	891708
AA	404m NW	Unspecified Heap	1955	803337
AA	404m NW	Unspecified Ground Workings	1891	799814
Q	407m NE	Mineral Railway Sidings	1938	834012
AB	410m NE	Unspecified Quarry	1947	864888
AB	410m NE	Unspecified Quarry	1925	921136
Y	410m E	Sewage Works	1950	870370
AC	419m NW	Unspecified Works	1976	855403
AC	419m NW	Unspecified Works	1989	938730
AD	425m N	Unspecified Quarry	1906 - 1925	850005



ID	Location	Land use	Dates present	Group ID
Y	429m E	Unspecified Tanks	1938	973630
Y	431m E	Unspecified Tanks	1950	887271
17	447m NE	Railway Sidings	1906	936496
AD	457m N	Unspecified Quarry	1938	914467
Y	462m E	Unspecified Tanks	1938	815135
Y	463m E	Unspecified Tank	1947	849069
Y	463m E	Unspecified Tank	1925	899371
Y	465m E	Unspecified Tank	1950	948197
Y	466m E	Unspecified Tank	1947 - 1950	857500
18	472m N	Coal Wharf	1906	794091
AF	482m NE	Colliery	1851	897691
R	485m N	Lime Kilns	1851	805536
AG	486m SW	Sand Pit	1891	797455
AG	487m SW	Unspecified Pit	1906	839700
R	490m N	Railway Sidings	1925 - 1938	856833
R	490m N	Railway Sidings	1906	899919
R	490m N	Railway Sidings	1990	909884
Y	491m E	Unspecified Tank	1947	853971
Y	491m E	Unspecified Tank	1925	909267
Y	494m E	Unspecified Tank	1950	879671
AF	497m NE	Refuse Heap	1851	828767
AF	497m NE	Unspecified Ground Workings	1966	799823

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

63

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or



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

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

ID	Location	Land use	Dates present	Group ID
A	On site	Unspecified Tank	1980	112547
A	On site	Unspecified Tank	1980	112548
A	On site	Unspecified Tank	1980	112549
A	On site	Unspecified Tank	1980	112546
A	On site	Cooling Tank	1956	137956
5	108m SE	Unspecified Tank	1989 - 1993	143604
H	180m E	Unspecified Tank	1968 - 1987	140637
M	223m E	Unspecified Tank	1984	140560
M	223m E	Unspecified Tank	1987	147889
M	224m E	Unspecified Tank	1977	126818
M	224m E	Unspecified Tank	1994	135551
M	224m E	Unspecified Tank	1968	147506
M	224m E	Unspecified Tank	1969	144293
M	240m E	Unspecified Tank	1987	112544
G	246m N	Unspecified Tank	1969	112557
G	252m N	Unspecified Tank	1956	112561
R	327m N	Gas Works	1892 - 1907	134205
O	340m NE	Unspecified Tank	1956	140369
O	341m NE	Unspecified Tank	1972	128162
O	341m NE	Unspecified Tank	1956	135757
R	349m N	Unspecified Tank	1927	113272
R	349m N	Gasometer	1892 - 1907	129666
R	351m N	Unspecified Tank	1927	113273
11	371m SE	Tanks	1996 - 1997	130050
Q	371m NE	Tanks	1984 - 1994	128882
R	372m N	Gasometer	1907	108454



ID	Location	Land use	Dates present	Group ID
R	372m N	Gas Works	1892 - 1907	127710
R	375m N	Unspecified Tank	1927	113270
R	375m N	Gasometer	1892 - 1907	139074
Q	380m NE	Unspecified Tank	1892	112554
R	381m N	Unspecified Tank	1892 - 1927	132051
Z	385m E	Unspecified Tank	1984 - 1987	137805
Q	386m NE	Tanks	1968 - 1994	149066
Z	386m E	Tanks	1994	105836
Q	387m NE	Tanks	1956 - 1987	128398
Q	388m NE	Unspecified Tank	1956 - 1969	137571
R	390m N	Unspecified Tank	1892 - 1927	132472
U	391m SE	Unspecified Tank	1993 - 1996	133589
Q	392m NE	Tanks	1956 - 1987	133265
U	392m SE	Unspecified Tank	1992	112543
Q	393m NE	Unspecified Tank	1956 - 1969	148629
Q	393m NE	Tanks	1968 - 1994	140269
Q	395m NE	Tanks	1956 - 1993	138247
Q	398m NE	Tanks	1984 - 1987	135231
Q	398m NE	Tanks	1956 - 1977	149041
Q	399m NE	Unspecified Tank	1956 - 1969	129744
Q	404m NE	Unspecified Tank	1956 - 1969	128237
Y	416m E	Unspecified Tank	1927 - 1937	138396
Q	419m NE	Unspecified Tank	1968 - 1969	148531
Q	422m NE	Tanks	1984 - 1994	138798
Y	429m E	Settling Tank	1927 - 1937	133556
Y	438m E	Tanks	1937	105835
Q	443m NE	Unspecified Tank	1977	112556
Q	446m NE	Unspecified Tank	1984 - 1987	134558

ID	Location	Land use	Dates present	Group ID
Q	447m NE	Tanks	1994	105834
Y	449m E	Settling Tanks	1927	108655
AC	478m NW	Tanks	1993	145120
AC	479m NW	Tanks	1972	125819
AE	483m E	Unspecified Tank	1977 - 1994	126529
19	485m NE	Unspecified Tank	1994	112555
AH	492m E	Tanks	1994	105838
AH	495m E	Tanks	1994	105839
AE	498m E	Unspecified Tank	1977 - 1994	126456

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

48

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

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

ID	Location	Land use	Dates present	Group ID
A	On site	Electricity Substation	1980	64974
A	On site	Electricity Substation	1956	69520
A	On site	Electricity Substation	1956	71864
A	On site	Electricity Substation	1980 - 1994	73322
B	On site	Electricity Substation	1994	65487
B	On site	Gas Governor	1994	83905
3	36m NE	Electricity Substation	1956 - 1994	71591
F	138m W	Electricity Substation	1956	65431
F	145m W	Electricity Substation	1956	81097



ID	Location	Land use	Dates present	Group ID
C	149m SE	Electricity Substation	1982 - 1992	74285
J	152m S	Electricity Substation	1993 - 1996	76202
C	162m SE	Electricity Substation	1993 - 1997	74849
J	169m S	Electricity Substation	1989	71679
7	183m NW	Electricity Substation	1980 - 1994	68904
N	246m SE	Electricity Substation	1993 - 1997	75056
N	247m SE	Electricity Substation	1982	77915
N	247m SE	Electricity Substation	1992	69240
G	277m N	Electricity Substation	1980 - 1994	71233
G	290m N	Electricity Substation	1956 - 1972	69114
R	327m N	Gas Works	1892 - 1907	84990
R	332m N	Electricity Substation	1994	73635
9	332m NW	Electricity Substation	1956 - 1994	76846
R	332m N	Electricity Substation	1994	83855
R	333m N	Electricity Substation	1956 - 1972	83065
R	336m N	Electricity Substation	1956 - 1969	68329
R	349m N	Gasometer	1892 - 1907	73034
V	360m SW	Electricity Substation	1978 - 1997	66123
V	361m SW	Electricity Substation	1984 - 1991	66245
S	370m NW	Electricity Substation	1980 - 1994	79598
Q	371m NE	Electricity Substation	1984 - 1987	80851
Q	372m NE	Electricity Substation	1968 - 1994	71388
R	372m N	Gasometer	1907	59647
R	372m N	Gas Works	1892 - 1907	71623
R	375m N	Gasometer	1892 - 1907	74800
W	383m SE	Gas Governor	1992 - 1997	77708
X	383m SW	Electricity Substation	1982 - 1996	78674
X	385m SW	Electricity Substation	1956	77767



ID	Location	Land use	Dates present	Group ID
12	387m W	Electricity Substation	1972 - 1995	70164
W	401m SE	Electricity Substation	1992 - 1997	72408
15	413m S	Electricity Substation	1996	61628
Q	425m NE	Electricity Substation	1956	70815
Y	425m E	Electricity Substation	1992 - 1994	68566
Y	425m E	Electricity Substation	1987	73647
Y	425m E	Electricity Substation	1993 - 1997	82215
AC	436m NW	Electricity Substation	1972	71275
AC	436m NW	Electricity Substation	1993 - 1995	75360
16	447m NW	Gas Governor	1994	72555
AE	481m E	Electricity Substation	1977 - 1987	66813

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m

5

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

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



ID	Location	Land use	Dates present	Group ID
U	359m SE	Garage	1982	21978
U	370m SE	Garage	1993 - 1997	26136
U	371m SE	Garage	1982	22780
U	372m SE	Garage	1992	23768
20	493m S	Garage	1956 - 1982	26161

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

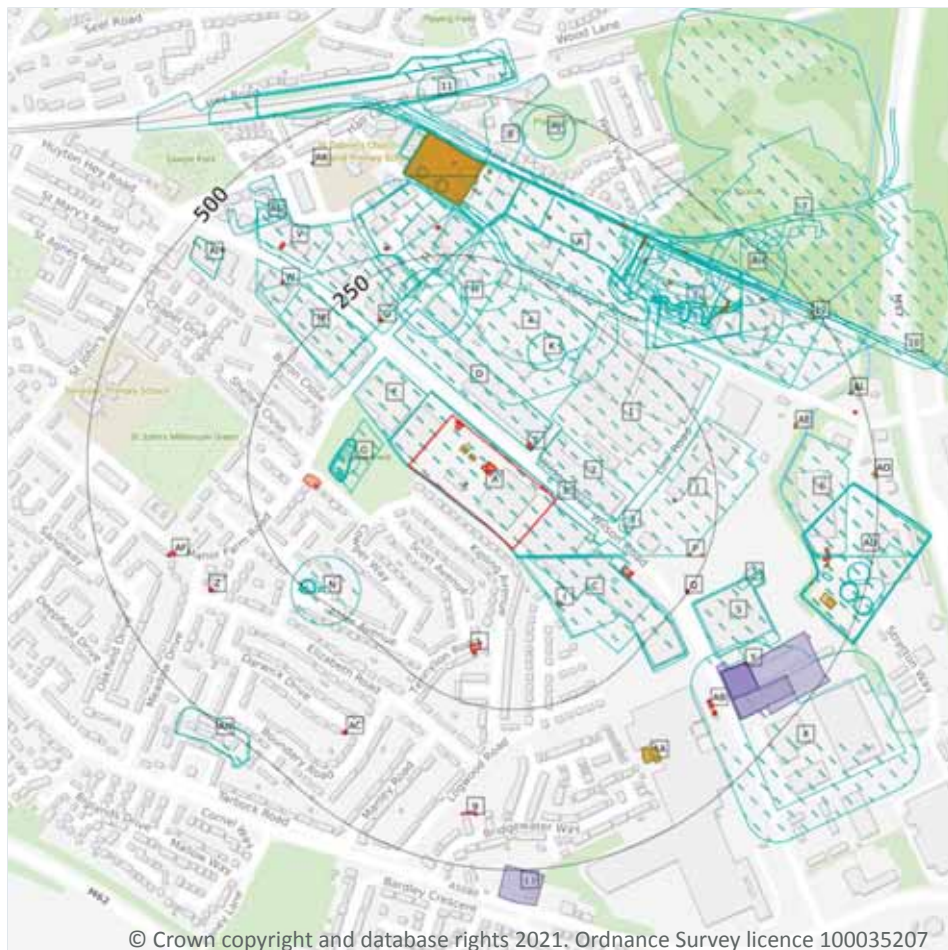
0

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

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



2 Past land use - un-grouped



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features
- Historical garages

2.1 Historical industrial land uses

Records within 500m

160

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 26**

ID	Location	Land Use	Date	Group ID
A	On site	Unspecified Factory	1975	889546
A	On site	Unspecified Factory	1990	928277
A	On site	Unspecified Factory	1966	891030

ID	Location	Land Use	Date	Group ID
B	4m NE	Coal Pits	1851	802131
B	13m NE	Coal Pits	1851	802130
C	14m S	Unspecified Commercial/Industrial	1975	950037
C	17m SE	Unspecified Commercial/Industrial	1989	918977
1	21m NE	Unspecified Works	1975	875478
C	25m SE	Unspecified Commercial/Industrial	1967	942003
2	31m NE	Unspecified Factory	1966	821341
D	33m NE	Unspecified Commercial/Industrial	1975	796697
D	33m NE	Unspecified Works	1966	907728
F	47m NW	Unspecified Warehouse	1975	855684
F	47m NW	Unspecified Warehouse	1990	963868
G	51m NW	Colliery	1891	798239
H	65m NE	Unspecified Works	1966	978443
G	76m W	Unspecified Ground Workings	1891	799820
G	87m W	Unspecified Heap	1925	924490
G	87m W	Unspecified Heap	1906	924490
G	88m W	Unspecified Heap	1925	930091
G	88m W	Unspecified Heap	1955	909535
G	89m W	Unspecified Heap	1938	960005
G	89m W	Unspecified Heap	1938	960005
G	92m W	Unspecified Old Shafts	1955	793283
G	100m W	Unspecified Old Shafts	1955	793284
G	101m W	Unspecified Old Shafts	1955	793285
G	103m W	Unspecified Old Shaft	1925	991781
G	103m W	Unspecified Old Shaft	1906	991781
G	104m W	Unspecified Old Shaft	1938	927480
G	104m W	Unspecified Old Shaft	1938	927480
G	104m W	Unspecified Old Shaft	1925	927480



ID	Location	Land Use	Date	Group ID
3	104m E	Unspecified Heap	1966	803345
J	112m E	Unspecified Warehouse	1975	807172
H	118m N	Unspecified Warehouse	1990	807171
4	121m NE	Unspecified Pit	1966	845345
H	124m N	Unspecified Tank	1966	904633
K	140m NE	Unspecified Quarry	1975	908063
K	140m NE	Unspecified Quarry	1990	854655
C	148m SE	Coal Pit	1851	808456
M	154m NW	Unspecified Commercial/Industrial	1975	796698
H	165m NW	Brick Fields	1975	832437
H	169m N	Unspecified Tank	1966	904633
M	179m NW	Brick Works	1955	933903
N	180m SW	Unspecified Old Shaft	1950	985464
K	181m NE	Unspecified Pit	1966	960973
M	182m NW	Unspecified Depot	1966	818271
H	192m N	Unspecified Pit	1966	839702
H	196m NW	Brick Works	1938	987727
H	196m NW	Brick Works	1938	987727
H	208m N	Unspecified Ground Workings	1906	799819
H	212m N	Chair Making Works	1955	990065
H	213m N	Chair Making Works	1938	866159
N	230m SW	Unspecified Heap	1950	989507
N	232m SW	Unspecified Old Shaft	1938	956264
N	232m SW	Unspecified Old Shaft	1938	970700
N	234m SW	Unspecified Heap	1925	901373
N	235m SW	Unspecified Heap	1925	878100
N	235m SW	Unspecified Heap	1906	878100
N	235m SW	Unspecified Heap	1938	989507



ID	Location	Land Use	Date	Group ID
N	235m SW	Unspecified Heap	1938	989507
N	250m SW	Unspecified Old Shaft	1925	872095
N	250m SW	Unspecified Old Shaft	1925	935194
N	250m SW	Unspecified Old Shaft	1906	972592
R	253m NE	Unspecified Factory	1975	969058
R	253m NE	Unspecified Works	1990	950861
R	253m NE	Unspecified Works	1966	873615
S	265m SE	Unspecified Warehouse	1975	987780
S	270m SE	Unspecified Warehouse	1989	934162
T	270m NE	Timber Yard and Saw Mill	1955	826725
T	271m NE	Iron Works	1906	889004
T	283m NE	Unspecified Mill	1966	810244
U	292m N	Unspecified Works	1938	978330
R	295m N	Electric Lamp Works	1925	846896
U	295m N	Pottery	1906	818628
U	296m N	Electric Lamp Works	1955	872339
U	300m N	Unspecified Commercial/Industrial	1975	929619
U	300m N	Unspecified Factory	1966	969058
T	301m NE	Iron Works	1891	846158
T	301m NE	Unspecified Ground Workings	1906	969063
T	307m NE	Unspecified Depot	1975	961971
T	311m NE	Unspecified Depot	1990	910233
5	311m SE	Corn Mill	1851	823124
T	314m NE	Pits	1851	794106
T	314m NE	Unspecified Ground Workings	1891	960123
R	314m NE	Electric Lamp Works	1938	851119
R	315m NE	Electric Lamp Works	1925	851119
R	315m NE	Electric Lamp Works	1906	851119

ID	Location	Land Use	Date	Group ID
V	315m NW	Unspecified Works	1966	830188
T	321m NE	Unspecified Ground Workings	1906	904043
U	326m N	Chair Making Works	1925	932280
U	326m N	Chair Making Works	1925	986489
U	326m N	Unspecified Commercial/Industrial	1906	920735
U	328m N	Gas Works	1891	802198
T	334m NE	Unspecified Ground Workings	1925	954430
T	335m NE	Unspecified Ground Workings	1938	954430
T	335m NE	Unspecified Ground Workings	1938	954430
T	336m NE	Unspecified Ground Workings	1925	954430
X	336m SE	Unspecified Works	1975	945342
T	337m NE	Unspecified Ground Workings	1955	990672
T	337m NE	Railway Sidings	1906	916677
U	349m N	Unspecified Tank	1925	977147
U	349m N	Unspecified Tank	1906	977147
U	349m N	Unspecified Tank	1938	883928
U	349m N	Unspecified Tank	1925	939112
6	350m E	Unspecified Depot	1990	818270
U	350m N	Gasometer	1891	809737
T	353m NE	Unspecified Quarry	1906	934563
U	354m NE	Railway Sidings	1891	924318
U	372m N	Unspecified Tank	1938	909229
U	372m N	Unspecified Tank	1925	950957
U	372m N	Unspecified Tank	1925	950957
U	372m N	Unspecified Tank	1906	950957
U	373m N	Gasometer	1891	809738
X	379m SE	Unspecified Works	1989	934148
U	379m NE	Railway Sidings	1955	905446



ID	Location	Land Use	Date	Group ID
T	383m NE	Railway Sidings	1851	959646
AD	385m E	Sewage Works	1938	966970
AD	385m E	Sewage Works	1938	966970
AD	386m E	Sewage Works	1947	966970
AD	386m E	Sewage Works	1925	966970
AD	390m E	Sewage Works	1955	959491
U	393m N	Railway Sidings	1966	894061
U	394m N	Mineral Railway Sidings	1925	834017
7	400m NE	Unspecified Disused Workings	1966	842253
T	400m NE	Railway Sidings	1955	896484
8	401m N	Unspecified Quarry	1891	891708
AG	404m NW	Unspecified Heap	1955	803337
AG	404m NW	Unspecified Ground Workings	1891	799814
T	407m NE	Mineral Railway Sidings	1938	834012
AH	410m NE	Unspecified Quarry	1947	864888
AH	410m NE	Unspecified Quarry	1925	921136
AD	410m E	Sewage Works	1950	870370
AI	419m NW	Unspecified Works	1976	855403
AI	419m NW	Unspecified Works	1989	938730
AJ	425m N	Unspecified Quarry	1925	850005
AJ	425m N	Unspecified Quarry	1906	850005
AD	429m E	Unspecified Tanks	1938	973630
AD	431m E	Unspecified Tanks	1950	887271
10	447m NE	Railway Sidings	1906	936496
AJ	457m N	Unspecified Quarry	1938	914467
AD	462m E	Unspecified Tanks	1938	815135
AD	463m E	Unspecified Tank	1947	849069
AD	463m E	Unspecified Tank	1925	899371



ID	Location	Land Use	Date	Group ID
AD	465m E	Unspecified Tank	1950	948197
AD	466m E	Unspecified Tank	1947	857500
AD	468m E	Unspecified Tank	1950	857500
11	472m N	Coal Wharf	1906	794091
AM	482m NE	Colliery	1851	897691
U	485m N	Lime Kilns	1851	805536
AN	486m SW	Sand Pit	1891	797455
AN	487m SW	Unspecified Pit	1906	839700
U	490m N	Railway Sidings	1925	856833
U	490m N	Railway Sidings	1906	899919
U	490m N	Railway Sidings	1975	894061
U	490m N	Railway Sidings	1990	909884
AD	491m E	Unspecified Tank	1947	853971
AD	491m E	Unspecified Tank	1925	909267
AD	494m E	Unspecified Tank	1950	879671
AM	497m NE	Refuse Heap	1851	828767
AM	497m NE	Unspecified Ground Workings	1966	799823

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

127

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 26**

ID	Location	Land Use	Date	Group ID
A	On site	Cooling Tank	1956	137956
A	On site	Cooling Tank	1956	137956
A	On site	Unspecified Tank	1980	112549



ID	Location	Land Use	Date	Group ID
A	On site	Unspecified Tank	1980	112548
A	On site	Unspecified Tank	1980	112547
A	On site	Unspecified Tank	1980	112546
I	108m SE	Unspecified Tank	1989	143604
I	108m SE	Unspecified Tank	1993	143604
J	180m E	Unspecified Tank	1984	140637
J	180m E	Unspecified Tank	1987	140637
J	181m E	Unspecified Tank	1977	140637
J	181m E	Unspecified Tank	1968	140637
J	181m E	Unspecified Tank	1969	140637
P	223m E	Unspecified Tank	1984	140560
P	223m E	Unspecified Tank	1987	147889
P	224m E	Unspecified Tank	1994	135551
P	224m E	Unspecified Tank	1977	126818
P	224m E	Unspecified Tank	1968	147506
P	224m E	Unspecified Tank	1969	144293
P	240m E	Unspecified Tank	1987	112544
H	246m N	Unspecified Tank	1969	112557
H	252m N	Unspecified Tank	1956	112561
U	327m N	Gas Works	1892	134205
U	327m N	Gas Works	1907	134205
R	340m NE	Unspecified Tank	1956	140369
R	341m NE	Unspecified Tank	1972	128162
R	341m NE	Unspecified Tank	1956	135757
U	349m N	Gasometer	1892	129666
U	349m N	Gasometer	1907	129666
U	349m N	Unspecified Tank	1927	113272
U	351m N	Unspecified Tank	1927	113273



ID	Location	Land Use	Date	Group ID
AA	371m SE	Tanks	1996	130050
AA	371m SE	Tanks	1997	130050
T	371m NE	Tanks	1984	128882
T	371m NE	Tanks	1987	128882
T	372m NE	Tanks	1994	128882
U	372m N	Gasometer	1907	108454
U	372m N	Gas Works	1892	127710
U	372m N	Gas Works	1907	127710
U	375m N	Gasometer	1892	139074
U	375m N	Gasometer	1907	139074
U	375m N	Unspecified Tank	1927	113270
T	380m NE	Unspecified Tank	1892	112554
U	381m N	Unspecified Tank	1892	132051
U	381m N	Unspecified Tank	1907	132051
U	381m N	Unspecified Tank	1927	132051
AE	385m E	Unspecified Tank	1984	137805
AE	385m E	Unspecified Tank	1987	137805
T	386m NE	Tanks	1984	149066
T	386m NE	Tanks	1987	149066
AE	386m E	Tanks	1994	105836
T	387m NE	Tanks	1984	128398
T	387m NE	Tanks	1987	128398
T	387m NE	Tanks	1977	149066
T	387m NE	Tanks	1968	149066
T	387m NE	Tanks	1956	128398
T	387m NE	Tanks	1977	128398
T	387m NE	Tanks	1968	128398
T	388m NE	Tanks	1994	149066



ID	Location	Land Use	Date	Group ID
T	388m NE	Unspecified Tank	1959	137571
T	388m NE	Unspecified Tank	1969	137571
T	388m NE	Unspecified Tank	1956	137571
U	390m N	Unspecified Tank	1892	132472
U	390m N	Unspecified Tank	1907	132472
U	390m N	Unspecified Tank	1927	132472
Y	391m SE	Unspecified Tank	1996	133589
Y	391m SE	Unspecified Tank	1993	133589
T	392m NE	Tanks	1984	133265
T	392m NE	Tanks	1987	133265
T	392m NE	Tanks	1956	133265
T	392m NE	Tanks	1977	133265
T	392m NE	Tanks	1968	133265
Y	392m SE	Unspecified Tank	1992	112543
T	393m NE	Unspecified Tank	1959	148629
T	393m NE	Unspecified Tank	1969	148629
T	393m NE	Unspecified Tank	1956	148629
T	393m NE	Tanks	1984	140269
T	393m NE	Tanks	1987	140269
T	394m NE	Tanks	1977	140269
T	394m NE	Tanks	1968	140269
T	395m NE	Tanks	1969	140269
T	395m NE	Tanks	1988	138247
T	395m NE	Tanks	1969	138247
T	395m NE	Tanks	1956	138247
T	395m NE	Tanks	1994	140269
T	395m NE	Tanks	1993	138247
T	395m NE	Tanks	1977	138247



ID	Location	Land Use	Date	Group ID
T	395m NE	Tanks	1956	138247
T	398m NE	Tanks	1984	135231
T	398m NE	Tanks	1987	135231
T	398m NE	Tanks	1956	149041
T	398m NE	Tanks	1977	149041
T	398m NE	Tanks	1968	149041
T	399m NE	Unspecified Tank	1959	129744
T	399m NE	Unspecified Tank	1969	129744
T	399m NE	Unspecified Tank	1956	129744
T	404m NE	Unspecified Tank	1959	128237
T	404m NE	Unspecified Tank	1969	128237
T	404m NE	Unspecified Tank	1956	128237
AD	416m E	Unspecified Tank	1927	138396
AD	416m E	Unspecified Tank	1937	138396
T	419m NE	Unspecified Tank	1968	148531
T	419m NE	Unspecified Tank	1969	148531
T	422m NE	Tanks	1984	138798
T	422m NE	Tanks	1987	138798
T	423m NE	Tanks	1994	138798
AD	429m E	Settling Tank	1927	133556
AD	429m E	Settling Tank	1937	133556
AD	438m E	Tanks	1937	105835
T	443m NE	Unspecified Tank	1977	112556
T	446m NE	Unspecified Tank	1984	134558
T	446m NE	Unspecified Tank	1987	134558
T	447m NE	Tanks	1994	105834
AD	449m E	Settling Tanks	1927	108655
AI	478m NW	Tanks	1993	145120



ID	Location	Land Use	Date	Group ID
AI	479m NW	Tanks	1972	125819
AL	483m E	Unspecified Tank	1984	126529
AL	483m E	Unspecified Tank	1987	126529
AL	485m E	Unspecified Tank	1977	126529
AL	485m E	Unspecified Tank	1994	126529
12	485m NE	Unspecified Tank	1994	112555
AO	492m E	Tanks	1994	105838
AO	495m E	Tanks	1994	105839
AL	498m E	Unspecified Tank	1984	126456
AL	498m E	Unspecified Tank	1987	126456
AL	499m E	Unspecified Tank	1977	126456
AL	499m E	Unspecified Tank	1994	126456

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

120

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 26**

ID	Location	Land Use	Date	Group ID
A	On site	Electricity Substation	1994	73322
A	On site	Electricity Substation	1956	69520
A	On site	Electricity Substation	1956	71864
A	On site	Electricity Substation	1980	73322
A	On site	Electricity Substation	1980	64974
A	On site	Electricity Substation	1980	73322
A	On site	Electricity Substation	1980	64974
A	On site	Electricity Substation	1994	73322



ID	Location	Land Use	Date	Group ID
B	On site	Electricity Substation	1994	65487
B	On site	Gas Governor	1994	83905
B	On site	Electricity Substation	1994	65487
B	On site	Gas Governor	1994	83905
E	36m NE	Electricity Substation	1956	71591
E	36m NE	Electricity Substation	1994	71591
E	36m NE	Electricity Substation	1994	71591
E	36m NE	Electricity Substation	1956	71591
E	37m NE	Electricity Substation	1980	71591
E	37m NE	Electricity Substation	1980	71591
G	138m W	Electricity Substation	1956	65431
G	145m W	Electricity Substation	1956	81097
C	149m SE	Electricity Substation	1992	74285
C	150m SE	Electricity Substation	1982	74285
L	152m S	Electricity Substation	1996	76202
L	152m S	Electricity Substation	1993	76202
C	162m SE	Electricity Substation	1996	74849
C	162m SE	Electricity Substation	1997	74849
C	162m SE	Electricity Substation	1993	74849
L	169m S	Electricity Substation	1989	71679
O	183m NW	Electricity Substation	1980	68904
O	183m NW	Electricity Substation	1980	68904
O	184m NW	Electricity Substation	1994	68904
O	184m NW	Electricity Substation	1994	68904
Q	246m SE	Electricity Substation	1996	75056
Q	246m SE	Electricity Substation	1997	75056
Q	246m SE	Electricity Substation	1993	75056
Q	247m SE	Electricity Substation	1982	77915



ID	Location	Land Use	Date	Group ID
Q	247m SE	Electricity Substation	1992	69240
H	277m N	Electricity Substation	1980	71233
H	277m N	Electricity Substation	1980	71233
H	278m N	Electricity Substation	1994	71233
H	278m N	Electricity Substation	1994	71233
H	290m N	Electricity Substation	1969	69114
H	290m N	Electricity Substation	1956	69114
H	290m N	Electricity Substation	1956	69114
H	291m N	Electricity Substation	1972	69114
U	327m N	Gas Works	1892	84990
U	327m N	Gas Works	1907	84990
U	332m N	Electricity Substation	1994	73635
U	332m N	Electricity Substation	1994	83855
W	332m NW	Electricity Substation	1956	76846
W	332m NW	Electricity Substation	1956	76846
W	332m NW	Electricity Substation	1994	76846
W	332m NW	Electricity Substation	1980	76846
W	332m NW	Electricity Substation	1980	76846
W	332m NW	Electricity Substation	1994	76846
U	333m N	Electricity Substation	1972	83065
U	336m N	Electricity Substation	1969	68329
U	336m N	Electricity Substation	1956	68329
U	336m N	Electricity Substation	1956	83065
U	349m N	Gasometer	1892	73034
U	349m N	Gasometer	1907	73034
Z	360m SW	Electricity Substation	1997	66123
Z	360m SW	Electricity Substation	1978	66123
Z	361m SW	Electricity Substation	1984	66245



ID	Location	Land Use	Date	Group ID
Z	361m SW	Electricity Substation	1989	66245
Z	361m SW	Electricity Substation	1991	66245
Z	361m SW	Electricity Substation	1991	66245
Z	361m SW	Electricity Substation	1991	66245
V	370m NW	Electricity Substation	1994	79598
V	371m NW	Electricity Substation	1980	79598
V	371m NW	Electricity Substation	1980	79598
T	371m NE	Electricity Substation	1984	80851
T	371m NE	Electricity Substation	1987	80851
T	372m NE	Electricity Substation	1977	71388
T	372m NE	Electricity Substation	1968	71388
U	372m N	Gasometer	1907	59647
T	372m NE	Electricity Substation	1994	71388
T	372m NE	Electricity Substation	1969	71388
U	372m N	Gas Works	1892	71623
U	372m N	Gas Works	1907	71623
U	375m N	Gasometer	1892	74800
U	375m N	Gasometer	1907	74800
AB	383m SE	Gas Governor	1996	77708
AB	383m SE	Gas Governor	1997	77708
AB	383m SE	Gas Governor	1993	77708
AC	383m SW	Electricity Substation	1982	78674
AB	385m SE	Gas Governor	1992	77708
AC	385m SW	Electricity Substation	1956	77767
AC	385m SW	Electricity Substation	1996	78674
AC	385m SW	Electricity Substation	1993	78674
AC	386m SW	Electricity Substation	1956	77767
AC	386m SW	Electricity Substation	1989	78674



ID	Location	Land Use	Date	Group ID
AF	387m W	Electricity Substation	1995	70164
AF	387m W	Electricity Substation	1993	70164
AF	387m W	Electricity Substation	1972	70164
AF	387m W	Electricity Substation	1993	70164
AF	387m W	Electricity Substation	1995	70164
AB	401m SE	Electricity Substation	1996	72408
AB	401m SE	Electricity Substation	1997	72408
AB	402m SE	Electricity Substation	1992	72408
AB	403m SE	Electricity Substation	1993	72408
9	413m S	Electricity Substation	1996	61628
T	425m NE	Electricity Substation	1956	70815
T	425m NE	Electricity Substation	1956	70815
AD	425m E	Electricity Substation	1994	68566
AD	425m E	Electricity Substation	1987	73647
AD	425m E	Electricity Substation	1996	82215
AD	425m E	Electricity Substation	1997	82215
AD	425m E	Electricity Substation	1993	82215
AD	430m E	Electricity Substation	1992	68566
AI	436m NW	Electricity Substation	1995	75360
AI	436m NW	Electricity Substation	1993	75360
AI	436m NW	Electricity Substation	1972	71275
AI	436m NW	Electricity Substation	1993	75360
AI	436m NW	Electricity Substation	1995	75360
AK	447m NW	Gas Governor	1994	72555
AK	448m NW	Gas Governor	1994	72555
AL	481m E	Electricity Substation	1984	66813
AL	481m E	Electricity Substation	1987	66813
AL	483m E	Electricity Substation	1977	66813

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

7

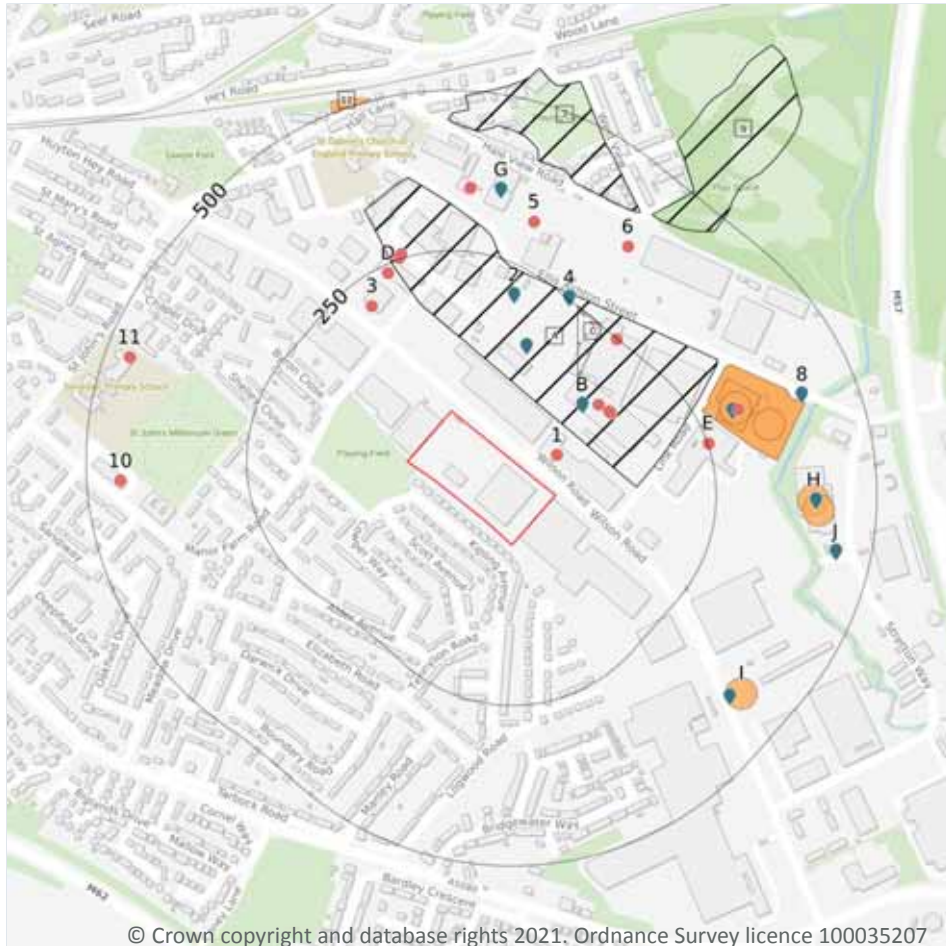
Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 26**

ID	Location	Land Use	Date	Group ID
Y	359m SE	Garage	1982	21978
Y	370m SE	Garage	1993	26136
Y	370m SE	Garage	1996	26136
Y	370m SE	Garage	1997	26136
Y	371m SE	Garage	1982	22780
Y	372m SE	Garage	1992	23768
13	493m S	Garage	1982	26161

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Historical landfill (EA/NRW)
- Historical landfill (LA/OS)
- Historical waste sites
- Licensed waste sites
- 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

2

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

Features are displayed on the Waste and landfill map on **page 43**

ID	Location	Site address	Source	Data type
C	166m NE	Refuse Tip	1967 mapping	Polygon
C	223m NE	Refuse Tip	1969 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

3

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

Features are displayed on the Waste and landfill map on **page 43**

ID	Location	Details		
A	91m NE	Site Address: Brickfields, Knowsley, Merseyside Licence Holder Address: -	Waste Licence: - Site Reference: GDO M209 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: Tushingham Metallic Brick Works Licence Holder: Tushingham Metallic Brick Works First Recorded - Last Recorded: -
7	404m NE	Site Address: Huyton Quarry, Knowsley, Merseyside Licence Holder Address: -	Waste Licence: - Site Reference: GDO M087 Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded 01/10/1971 Last Recorded: -
9	434m NE	Site Address: West View Tip, Knowsley, Merseyside Licence Holder Address: -	Waste Licence: - Site Reference: GDO M194 Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: Hoyton with Roby Urban District Council Licence Holder: - First Recorded 31/01/1971 Last Recorded: 01/01/1978



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

3.5 Historical waste sites

Records within 500m	9
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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 43**

ID	Location	Address	Further Details	Date
F	263m NE	Site Address: N/A	Type of Site: Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1984
F	263m NE	Site Address: N/A	Type of Site: Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1987
F	277m NE	Site Address: N/A	Type of Site: Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1994
F	286m NE	Site Address: Ashton Street, Ashton Street, Huyton, LIVERPOOL, Merseyside	Type of Site: Waste Transfer Station Planning application reference: 98/00187 Description: Waste transfer station with car parking and skip storage area. An application (ref: 98/00187) for Outline Planning permission was submitted to Knowsley B.C. on 9th April 1998. Data source: Historic Planning Application Data Type: Point	-
F	325m E	Site Address: Ellis Ashton Street, Huyton Waste Transfer Station, Ellis Ashton Street, Huyton, LIVERPOOL, Merseyside, L36 6BN	Type of Site: Waste Transfer Station (Alterations) Planning application reference: 98/00012 Description: Alterations to provide improved facilities for mixed and segregated waste, provision of storage areas and alterations to access roads. An application (ref: 98/00012) for Detailed Planning permission was submitted to Knowsley B.C. on 22nd January 1998. Data source: Historic Planning Application Data Type: Point	-



ID	Location	Address	Further Details	Date
H	376m E	Site Address: Stretton Way, Stretton Way, Huyton Ind. Estate, Huyton, LIVERPOOL, Merseyside, L36 6JF	Type of Site: Waste Transfer Station (C/U) Planning application reference: APP/97/00600 Description: Change of use from storage to waste transfer station for the sorting and processing of non-toxic/non hazardous waste to generate re-usable materials. An application (ref: APP/97/00600) for Detailed Planning permission was submitted to Knowsley B. n 24th October 1997. Data source: Historic Planning Application Data Type: Point	-
H	385m E	Site Address: Orchid Environmental MWDA Trea, Stretton Way, Huyton, Knowsley, LIVERPOOL, Merseyside, L36 6JF	Type of Site: Waste Recycling Facility Planning application reference: 09/00409/FUL Description: Scheme comprises change of use of and external alterations to building to form extended waste recycling facility resulting in increase of waste processed from 50,000 tonnes/year to 120,000 tonnes/year, change of use of factory unit to form associated offices/maintenance workshop, construction of car parking and associated works - amended description. Construction - automatic, roller shutter doors; external refurbishment; black top surfacing, fencing, hardcore, turfing/grass site works. An application (ref: 09/00409/FUL) for detailed planning permission was granted by Knowsley B.C. Project value, start date and contract period are for guideline only. This scheme is now complete. Data source: Historic Planning Application Data Type: Point	-



ID	Location	Address	Further Details	Date
I	396m SE	Site Address: Former Hayden Drysys, Internati, Wilson Road, Thorburn International, LIVERPOOL, Merseyside, L36 6AD	Type of Site: Waste Recycling Centre Planning application reference: 10/00153/FUL Description: Scheme comprises formation of a household waste recycling centre comprising of 1 office building, covered collection area & 1 storage building, together with construction of car parking & new vehicular access landscaping, boundary treatments & associated works. Construction - pitched roof; roller shutter, steel doors; portal frame; black top surfacing, concrete paving, fencing, grp liners, lighting columns, planting, Tarmac surfacing site works. An application (ref: 10/00153/FUL) for detailed planning p ermission was granted by Knowsley B.C. The start date and contract period are for guideline only. Barhale Construction Plc has been awarded the main contract and work has commenced on site. Data source: Historic Planning Application Data Type: Point	28/11/2011
12	497m N	Site Address: N/A	Type of Site: Scrap Metal Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1972

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

3.6 Licensed waste sites

Records within 500m	17
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Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation. Features are displayed on the Waste and landfill map on **page 43**



ID	Location	Details		
B	135m NE	Site Name: Restart Recycling Ltd Site Address: Units 1-3 The Lombard Centre, Link Road, Huyton, Liverpool, Merseyside, L36 6AP Correspondence Address: -	Type of Site: 75kte WEEE Treatment Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: RRL004 EPR reference: EA/EPR/AB3603LX/A001 Operator: Restart Recycling Limited Waste Management licence No: 400736 Annual Tonnage: 74999	Issue Date: 04/11/2013 Effective Date: - Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Revoked
B	135m NE	Site Name: Link Recycling Limited Site Address: Unit 1, 2 & 3, The Lombard Centre, Link Road, Huyton, Merseyside, L36 6AP Correspondence Address: -	Type of Site: 75kte Materials Recycling Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: LRL101 EPR reference: EA/EPR/CB3806XX/A001 Operator: Link Recycling Limited Waste Management licence No: 402341 Annual Tonnage: 75000	Issue Date: 22/07/2015 Effective Date: - Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
A	151m NE	Site Name: Mainsway Ltd Site Address: Ellis Ashton Street, Huyton, Merseyside, L36 6AH Correspondence Address: Keith Lewis, Pearl Environmental Ltd, 13, Middleton Road, Reddish, Stockport, SK5 6SG	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MAI002 EPR reference: - Operator: Mainsway Ltd Waste Management licence No: 50376 Annual Tonnage: 0	Issue Date: 01/04/2005 Effective Date: - Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
2	205m NE	Site Name: Huyton Quarry Salvage Site Address: Huyton Industrial Estate, Ellis Ashton Street, Huyton, Liverpool, Merseyside, L36 6BW Correspondence Address: -	Type of Site: ELV Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WIL204 EPR reference: EA/EPR/FP3694CW/A001 Operator: Willis Peter James Waste Management licence No: 50354 Annual Tonnage: 2500	Issue Date: 10/08/2005 Effective Date: - Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Suspended



ID	Location	Details		
4	252m NE	Site Name: Mainsway Ltd Site Address: Land/premises At, Ellis Ashton Street, Huyton, Merseyside, L36 6AH Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MAI002 EPR reference: EA/EPR/ZP3294CU/A001 Operator: Mainsway Ltd Waste Management licence No: 50376 Annual Tonnage: 75000	Issue Date: 01/04/2005 Effective Date: - Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
F	305m NE	Site Name: Huyton Waste Transfer Station & Waste Reception Centre Site Address: Ellis Ashton Street, Huyton, Liverpool, Merseyside, L36 6BJ Correspondence Address: Huyton Waste Transfer Station, Ellis Ashton Street, Huyton, Liverpool, Merseyside, L36 6BJ	Type of Site: Special Waste Transfer Station Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MWA006 EPR reference: - Operator: Mersey Waste Holdings Ltd Waste Management licence No: 53645 Annual Tonnage: 6250	Issue Date: 15/09/1995 Effective Date: - Modified:: 22/03/2002 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
F	305m NE	Site Name: Huyton W T S / H W R C Site Address: Ellis Ashton Street, Huyton, Liverpool, Merseyside, L36 6BJ Correspondence Address: Port Of Liverpool Buildings, 2nd Floor, Pierhead, Liverpool, Merseyside, L3 1BY	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MWA006 EPR reference: - Operator: Mersey Waste Holdings Ltd Waste Management licence No: 53645 Annual Tonnage: 6250	Issue Date: 15/09/1995 Effective Date: - Modified:: 20/07/2006 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified



ID	Location	Details		
G	353m N	Site Name: Robcliffe Ltd Vehicle Dismantling Site Address: Units 1/2, Ellis Ashton Street, Huyton Industrial Estate, Liverpool, Merseyside, L36 6BJ Correspondence Address: -	Type of Site: ELV Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ROB006 EPR reference: EA/EPR/XP3294CL/A001 Operator: Robcliffe Limited Waste Management licence No: 50292 Annual Tonnage: 2500	Issue Date: 26/08/2004 Effective Date: - Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
H	405m E	Site Name: M W D A Treatment Facility Site Address: M W D A Treatment Facility, Stretton Way, Huyton, Nr Liverpool, Merseyside, L36 6JF Correspondence Address: Market Place, Adlington, Nr Chorley, Lancashire, PR7 4EZ	Type of Site: Physical Treatment Facility Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: FAI011 EPR reference: - Operator: Fairport Engineering Ltd Waste Management licence No: 50487 Annual Tonnage: 0	Issue Date: 10/05/2007 Effective Date: - Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
H	405m E	Site Name: Materials Recycling And Recovery Centre Site Address: Land/premises At, Stretton Way, Huyton, Liverpool, Merseyside, L36 6JF Correspondence Address: -	Type of Site: Physical Treatment Facility Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ORC009 EPR reference: EA/EPR/DP3794ST/V004 Operator: Orchid Environmental Ltd Waste Management licence No: 50487 Annual Tonnage: 49999	Issue Date: 10/05/2007 Effective Date: 14/01/2009 Modified:: 24/09/2010 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified



ID	Location	Details		
H	405m E	Site Name: Materials Recycling And Recovery Centre Site Address: Land/premises At, Stretton Way, Huyton, Liverpool, Merseyside, L36 6JF Correspondence Address: -	Type of Site: Physical Treatment Facility Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ORC009 EPR reference: EA/EPR/DP3794ST/V004 Operator: Orchid Environmental Ltd Waste Management licence No: 50487 Annual Tonnage: 49999	Issue Date: 10/05/2007 Effective Date: 14/01/2009 Modified:: 24/09/2010 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
I	410m SE	Site Name: Huyton H W R C Site Address: Huyton Ind Est, Wilson Road, Huyton, Knowsley, Merseyside, L36 6AD Correspondence Address: -	Type of Site: 75kte Non-hazardous & hazardous HWA Site Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: VEO167 EPR reference: EA/EPR/DB3833DK/A001 Operator: Veolia E S Merseyside & Halton Ltd Waste Management licence No: 103677 Annual Tonnage: 74999	Issue Date: 12/12/2011 Effective Date: - Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
8	413m E	Site Name: Huyton Waste Transfer Station Site Address: Huyton W T S, Ellis Ashton Street, Huyton Ind Est, Liverpool, Merseyside, L36 6BN Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: VEO092 EPR reference: EA/EPR/EP3695SH/V006 Operator: Veolia Environmental Services Merseyside & Halton Ltd Waste Management licence No: 53645 Annual Tonnage: 500000	Issue Date: 15/09/1995 Effective Date: 11/11/2009 Modified:: 15/05/2013 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified



ID	Location	Details		
J	443m E	Site Name: Arpley 2 Site Address: Stretton Way, Huyton Ind Est, Huyton, Merseyside, L36 6JF Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: FCC004 EPR reference: EA/EPR/JB3633RP/V002 Operator: F C C Recycling (U K) Limited Waste Management licence No: 104504 Annual Tonnage: 120000	Issue Date: 23/07/2012 Effective Date: - Modified:: 18/12/2012 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
J	443m E	Site Name: Stretton Way Site Address: Stretton Way, Huyton Ind Est, Huyton, Merseyside, L36 6JF Correspondence Address: -	Type of Site: 75kte HCI Waste TS + treatment Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: FCC004 EPR reference: EA/EPR/JB3633RP/A001 Operator: F C C Recycling (U K) Limited Waste Management licence No: 104504 Annual Tonnage: 74999	Issue Date: 23/07/2012 Effective Date: - Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
J	443m E	Site Name: Arpley 2 Site Address: Arpley 2, Stretton Way, Huyton Ind Est, Huyton, Merseyside, L36 6JF Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: FCC004 EPR reference: EA/EPR/JB3633RP/V003 Operator: F C C Recycling (U K) Limited Waste Management licence No: 104504 Annual Tonnage: 120000	Issue Date: 23/07/2012 Effective Date: - Modified:: 08/06/2016 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: To PPC



ID	Location	Details		
J	443m E	Site Name: Arpley 2 Site Address: Arpley 2, Stretton Way, Huyton Ind Est, Huyton, Merseyside, L36 6JF Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: FCC004 EPR reference: EA/EPR/JB3633RP/V003 Operator: F C C Recycling (U K) Limited Waste Management licence No: 104504 Annual Tonnage: 120000	Issue Date: 23/07/2012 Effective Date: - Modified:: 08/06/2016 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: To PPC

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

3.7 Waste exemptions

Records within 500m	29
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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 43**

ID	Location	Site	Reference	Category	Sub-Category	Description
1	49m NE	11A-11B, WILSON ROAD, LIVERPOOL, L36 6AN	WEX246359	Storing waste exemption	Not on a farm	Storage of waste in a secure place
B	152m NE	UNIT 1-3, LINK ROAD, HUYTON, LIVERPOOL, L36 6AP	WEX128635	Storing waste exemption	Not on a farm	Storage of waste in a secure place
B	152m NE	UNIT 1-3, LINK ROAD, HUYTON, LIVERPOOL, L36 6AP	WEX128683	Storing waste exemption	Not on a farm	Storage of waste in a secure place
B	152m NE	UNIT 1-3, LINK ROAD, HUYTON, LIVERPOOL, L36 6AP	WEX128624	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
B	152m NE	UNIT 1-3, LINK ROAD, HUYTON, LIVERPOOL, L36 6AP	WEX128685	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
B	153m NE	Units 1-3 The Lombard Centre Link Road LIVERPOOL L36 6AP	EPR/DF0403G U/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place



ID	Location	Site	Reference	Category	Sub-Category	Description
B	153m NE	Units 1-3 The Lombard Centre Link Road LIVERPOOL L36 6AP	EPR/DF0403G U/A001	Treating waste exemption	Non-Agricultural Waste Only	Recovery of textiles
B	153m NE	Units 1-3 The Lombard Centre Link Road LIVERPOOL L36 6AP	EPR/DF0403G U/A001	Treating waste exemption	Non-Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)
B	153m NE	Units 1-3 The Lombard Centre Link Road LIVERPOOL L36 6AP	EPR/DF0403G U/A001	Treating waste exemption	Non-Agricultural Waste Only	Recovery of scrap metal
B	153m NE	Unit 5 The Park Spring Lane South Malvern WR14 1AT	EA/EPR/VP368 6WK/A001	Treating waste exemption	Non-Agricultural Waste Only	Repair or refurbishment of WEEE
3	205m NW	Unit 4, Wilson Business Centre, Wilson Road, Huyton Liverpool, L36 6AN	WEX116758	Storing waste exemption	Not on a farm	Storage of waste in a secure place
D	236m NW	UNIT 4, BRICKFIELDS, LIVERPOOL, L36 6HY	WEX148881	Storing waste exemption	Not on a farm	Storage of waste in secure containers
C	248m NE	Carbon I.T Recycling Ltd, The Big Padlock, Unit 3, Office 10, L36 6BJ	WEX036881	Storing waste exemption	Not on a farm	Storage of waste in a secure place
E	250m E	UNIT 1 The Lombard Centre Link Road Huyton LIVERPOOL L36 6AP	EPR/ZH0814D E/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
E	250m E	Unit 1 & 2 The Lombard Centre Link Road Huyton Liverpool L36 6AP	EA/EPR/VP368 6VG/A001	Treating waste exemption	Non-Agricultural Waste Only	Repair or refurbishment of WEEE
E	250m E	UNIT 1 The Lombard Centre Link Road Huyton LIVERPOOL L36 6AP	EPR/GH0073J N/A001	Treating waste exemption	Non-Agricultural Waste Only	Treatment of waste toner cartridges by sorting, dismantling, cleaning or refilling
D	252m N	4 Brickfields L36 6HY	EPR/WF0201G V/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in secure containers
D	252m N	4 Brickfields L36 6HY	EPR/WF0201G V/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
D	257m N	Unit 4 Brickfields LIVERPOOL L36 6HY	EPR/WF0608U M/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place

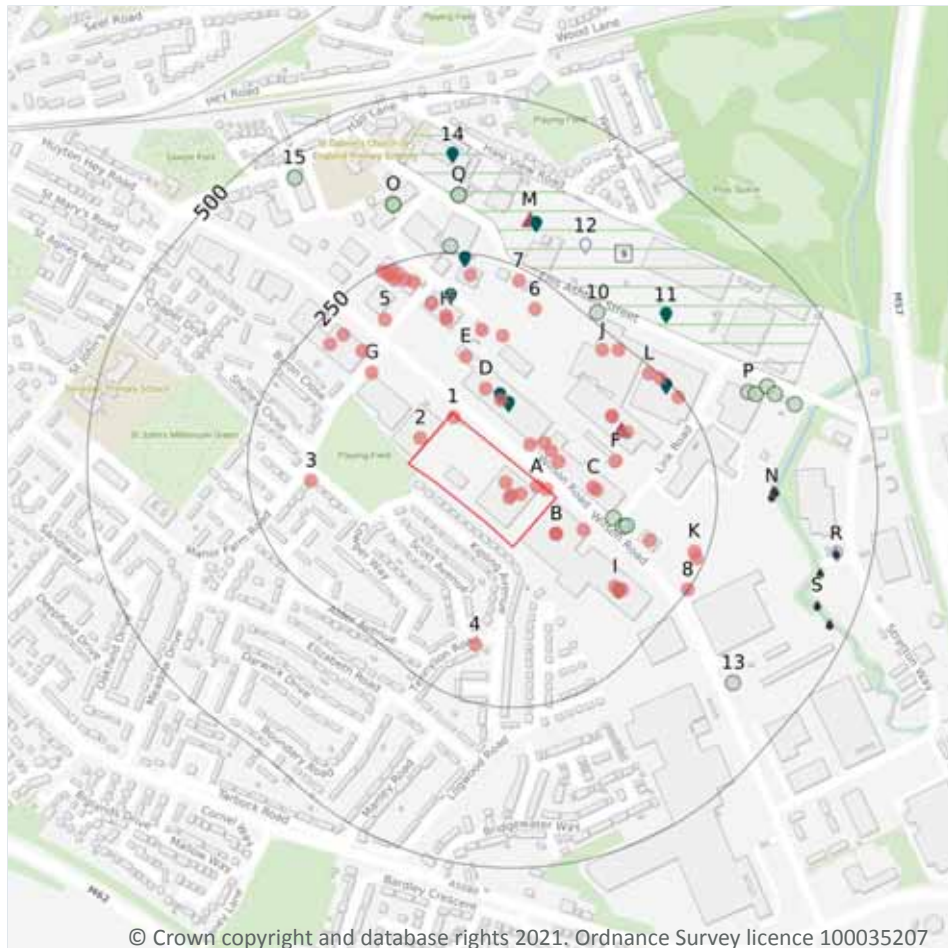


ID	Location	Site	Reference	Category	Sub-Category	Description
F	313m NE	Link Recycling LTD Ellis Ashton Street, Ellis Ashton Street, Liverpool, Liverpool, L366bj	WEX137630	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
5	321m NE	ELLIS ASHTON STREET, LIVERPOOL, L36 6BW	WEX175096	Storing waste exemption	Not on a farm	Storage of waste in a secure place
G	348m N	Locker Freight, Ellis Ashton Street, Liverpool, L36 6BN	WEX214211	Storing waste exemption	Not on a farm	Storage of waste in a secure place
G	348m N	Locker Freight, Ellis Ashton Street, Liverpool, L36 6BN	WEX214211	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
G	349m N	Huyton Waste Transfer Station, Ellis Ashton Street, Huyton Industrial, Huyton, L36 6BN	WEX164263	Treating waste exemption	Not on a Farm	Preparatory treatments (baling, sorting, shredding etc)
G	349m N	Huyton Waste Transfer Station, Ellis Ashton Street, Huyton Industrial Estate, Huyton, L36 6BN	WEX164498	Treating waste exemption	Not on a Farm	Preparatory treatments (baling, sorting, shredding etc)
G	349m N	Huyton Waste Transfer Station, Ellis Ashton Street, Huyton Industrial Estate, Huyton, L36 6BN	WEX000883	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
6	371m NE	jk pallets ltd Ellis Ashton Street LIVERPOOL L36 6BN	EPR/SF0503XE /A001	Disposing of waste exemption	Non-Agricultural Waste Only	Burning waste in the open
10	448m W	43-45, MANOR FARM ROAD, LIVERPOOL, L36 0UB	WEX026404	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
11	462m W	St Agnes School, St Johns Road, Huyton, L36 0UX	WEX108654	Using waste exemption	Not 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
- Control of Major Accident Hazards
- ▲ Hazardous substance storage/usage
- 📍 Part A(1) industrial activities
- ◆ Licensed pollutant release (Part A(2)/B)
- ◆ Licensed Discharges to controlled waters
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m

60

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 56**

ID	Location	Company	Address	Activity	Category
1	On site	Electricity Sub Station	Merseyside, L36	Electrical Features	Infrastructure and Facilities
A	On site	Electricity Sub Station	Merseyside, L36	Electrical Features	Infrastructure and Facilities



ID	Location	Company	Address	Activity	Category
A	On site	The Leather Satchel Co	Unit 2-3 Interchange Motorway Industrial Estate, Wilson Road, Liverpool, Merseyside, L36 6JG	Leather Products	Consumer Products
A	On site	B & B Hygiene Ltd	Unit 7 Interchange Motorway Industrial Estate, Wilson Road, Liverpool, Merseyside, L36 6JG	Colours, Chemicals and Water Softeners and Supplies	Industrial Products
A	On site	Quinn Developments	Unit 8 Interchange Motorway Industrial Estate, Wilson Road, Liverpool, Merseyside, L36 6JG	Civil Engineers	Engineering Services
A	On site	Catering Equipment Warehouse	Unit 18a Interchange Motorway Industrial Estate, Wilson Road, Liverpool, Merseyside, L36 6JG	Food and Beverage Industry Machinery	Industrial Products
A	1m NE	Gas Governor Station	Merseyside, L36	Gas Features	Infrastructure and Facilities
2	12m NW	Aria Ornamental Ironwork	Unit 1b Interchange Motorway Industrial Estate, Wilson Road, Liverpool, Merseyside, L36 6JG	Metalworkers Including Blacksmiths	Construction Services
B	37m SE	Horizon Distribution	35, Wilson Road, Liverpool, Merseyside, L36 6AE	Distribution and Haulage	Transport, Storage and Delivery
B	37m SE	Hogans Butchers Ltd	Unit 13c Interchange Motorway Industrial Estate, Wilson Road, Liverpool, Merseyside, L36 6JG	Fish, Meat and Poultry Products	Foodstuffs
B	37m SE	Mersey Vent Ltd	14a Interchange Motorway Industrial Estate, Wilson Road, Liverpool, Merseyside, L36 6JG	Air and Water Filtration	Industrial Products
A	39m NE	Electricity Sub Station	Merseyside, L36	Electrical Features	Infrastructure and Facilities
A	45m NE	Factory	Merseyside, L36	Unspecified Works Or Factories	Industrial Features
A	51m NE	North West Plant Hire & Sales Ltd	Unit 11/C 3, Wilson Road, Liverpool, Merseyside, L36 6AN	Construction and Tool Hire	Hire Services
A	55m NE	Electricity Sub Station	Merseyside, L36	Electrical Features	Infrastructure and Facilities
C	60m E	Spromek Ltd	Unit 11g, Wilson Road, Liverpool, Merseyside, L36 6AN	General Construction Supplies	Industrial Products
D	63m NE	HSS Hire Service Group Ltd	8 Chapel Brook Trade Park, Wilson Road, Liverpool, Merseyside, L36 6FH	Construction and Tool Hire	Hire Services



ID	Location	Company	Address	Activity	Category
C	63m E	Factory	Merseyside, L36	Unspecified Works Or Factories	Industrial Features
D	63m NE	Toolstation	6 Chapel Brook Trade Park, Wilson Road, Liverpool, Merseyside, L36 6FH	Construction and Tool Hire	Hire Services
B	65m SE	No 1 Discount Sheds Factory	Unit 18, Wilson Road, Liverpool, Merseyside, L36 6JG	Garden Goods	Consumer Products
E	91m N	K2 Plastics	Unit 15 Chapel Brook Trade Park, Wilson Road, Liverpool, Merseyside, L36 6FH	Rubber, Silicones and Plastics	Industrial Products
F	108m NE	Factory	Merseyside, L36	Unspecified Works Or Factories	Industrial Features
G	136m NW	Mast (Telecommunication)	Merseyside, L36	Telecommunications Features	Infrastructure and Facilities
E	138m N	Mainsway Ltd	Unit 18, Brickfields, Liverpool, Merseyside, L36 6HY	Construction and Tool Hire	Hire Services
E	144m NE	Depot	Merseyside, L36	Container and Storage	Transport, Storage and Delivery
H	147m N	Brickfields Vehicle Services	Unit 17, Brickfields, Liverpool, Merseyside, L36 6HY	Vehicle Repair, Testing and Servicing	Repair and Servicing
F	150m NE	SIG Interiors	Lombard Centre, Link Road, Huyton, Liverpool, Merseyside, L36 6AP	Building and Component Suppliers	Construction Services
H	152m N	Works	Merseyside, L36	Unspecified Works Or Factories	Industrial Features
F	152m NE	Lombard Shipping & Forwarding Ltd	Lombard Centre, Link Road, Huyton, Liverpool, Merseyside, L36 6AP	Distribution and Haulage	Transport, Storage and Delivery
F	153m NE	Link Recycling	Unit 1 Lombard Centre, Link Road, Huyton, Liverpool, Merseyside, L36 6AP	Recycling, Reclamation and Disposal	Recycling Services
3	154m W	Electricity Sub Station	Merseyside, L36	Electrical Features	Infrastructure and Facilities
I	160m SE	Works	Merseyside, L36	Unspecified Works Or Factories	Industrial Features
B	160m SE	H T L Buses	37, Wilson Road, Liverpool, Merseyside, L36 6AN	Bus and Coach Stations, Depots and Companies	Public Transport, Stations and Infrastructure



ID	Location	Company	Address	Activity	Category
4	163m S	Electricity Sub Station	Merseyside, L36	Electrical Features	Infrastructure and Facilities
I	169m SE	North West Trucks	Wilson Road, Liverpool, Merseyside, L36 6AJ	Vehicle Repair, Testing and Servicing	Repair and Servicing
G	170m NW	Leather Graft	1 Wilson Business Centre, Wilson Road, Liverpool, Merseyside, L36 6AF	Clothing, Components and Accessories	Consumer Products
I	172m SE	North West Trucks Services Ltd	Wilson Road, Liverpool, Merseyside, L36 6AJ	New Vehicles	Motoring
H	174m N	Rapid Precision Engineering	Unit 16a, Brickfields, Liverpool, Merseyside, L36 6HY	Precision Engineers	Engineering Services
5	180m NW	Electricity Sub Station	Merseyside, L36	Electrical Features	Infrastructure and Facilities
6	206m NE	Scrap Yard	Merseyside, L36	Scrap Metal Merchants	Recycling Services
G	207m NW	Universal Plastic Products	Unit 4 Wilson Business Centre, Wilson Road, Liverpool, Merseyside, L36 6AF	Rubber, Silicones and Plastics	Industrial Products
H	214m N	Works	Merseyside, L36	Unspecified Works Or Factories	Industrial Features
G	214m NW	Wilson Business Centre	Merseyside, L36	Business Parks and Industrial Estates	Industrial Features
H	217m N	Warehouse	Merseyside, L36	Container and Storage	Transport, Storage and Delivery
H	221m N	Works	Merseyside, L36	Unspecified Works Or Factories	Industrial Features
J	224m NE	Big Padlock UK Ltd	Unit 3, Ellis Ashton Street, Liverpool, Merseyside, L36 6BJ	Container and Storage	Transport, Storage and Delivery
H	226m NW	Evan's M O T Centre	Unit 3, Brickfields, Liverpool, Merseyside, L36 6HY	Vehicle Repair, Testing and Servicing	Repair and Servicing
K	230m E	Tank	Merseyside, L36	Tanks (Generic)	Industrial Features
7	231m NE	Works	Merseyside, L36	Unspecified Works Or Factories	Industrial Features
H	232m N	Works	Merseyside, L36	Unspecified Works Or Factories	Industrial Features



ID	Location	Company	Address	Activity	Category
H	236m NW	Roberts Recycling Ltd	Unit 4, Brickfields, Liverpool, Merseyside, L36 6HY	Recycling, Reclamation and Disposal	Recycling Services
H	236m NW	Recycle 4 Schools	Unit 4, Brickfields, Liverpool, Merseyside, L36 6HY	Rag Merchants	Recycling Services
K	237m SE	Easystorage	35, Wilson Road, Liverpool, Merseyside, L36 6AE	Container and Storage	Transport, Storage and Delivery
J	240m NE	Factory	Merseyside, L36	Unspecified Works Or Factories	Industrial Features
L	241m NE	Link Warehouse	Merseyside, L36	Container and Storage	Transport, Storage and Delivery
H	242m NW	Works	Merseyside, L36	Unspecified Works Or Factories	Industrial Features
L	246m NE	Corex UK	Unit 7-8 Link South, Ellis Ashton Street, Liverpool, Merseyside, L36 6BP	Wood Products Including Charcoal, Paper, Card and Board	Industrial Products
L	247m NE	Link Warehouse	Merseyside, L36	Container and Storage	Transport, Storage and Delivery
H	248m NW	Central Steel Fabrications N W Ltd	Unit 5, Brickfields, Liverpool, Merseyside, L36 6HY	Metals Manufacturers, Fabricators and Stockholders	Industrial Products
8	250m SE	Electricity Sub Station	Merseyside, L36	Electrical Features	Infrastructure and Facilities

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

1

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.

Features are displayed on the Current industrial land use map on **page 56**

ID	Location	Company	Address	Operational status	Tier
9	256m NE	Basf Printing Systems Ltd	Basf Printing Systems Ltd, Ellis Ashton Steet, Huyton, Liverpool, L36 6BN	Historical NIHHS Site	-

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

2

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.

Features are displayed on the Current industrial land use map on **page 56**

ID	Location	Details	
F	146m NE	Application reference number: No Details Application status: Approved Application date: No Details Address: Lombard Shipping & Forwarding Ltd, Link Road, Huyton, Liverpool, Merseyside, England, L36 6AP	Details: No Details Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
M	324m N	Application reference number: 99/00713/HSC Application status: Approved Application date: 22/10/1999 Address: Essex International Limited, Huyton Ind Est, Ellis Ashton Street, Huyton, Knowsley, Merseyside, England, L36 6BW	Details: Claim For Deemed Consent For The Storage Of Hazardous Substances Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m

0

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

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



4.10 Licensed industrial activities (Part A(1))

Records within 500m

4

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

Features are displayed on the Current industrial land use map on **page 56**

ID	Location	Details	
H	173m N	Operator: LANGDAWE LTD Installation Name: RAPID PRECISION ENGINEERING - EPR/AP3704BM Process: SURFACE TREATING METALS AND PLASTICS; ELECTROLYTIC/CHEMICAL >30 CU M Permit Number: AP3704BM Original Permit Number: AP3704BM	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 25/01/2021 Status: DETERMINATION
12	332m NE	Operator: CJ & LM DAVIES LTD Installation Name: THE VINNALS POULTRY SITE Process: INTENSIVE FARMING; > 40,000 POULTRY Permit Number: HP3630DX Original Permit Number: HP3630DX	EPR Reference: - Issue Date: 21/12/2016 Effective Date: 21/12/2016 Last date noted as effective: 25/01/2021 Status: SUPERCEDED
R	443m E	Operator: FCC RECYCLING (UK) LIMITED Installation Name: ARPLEY 2 - EPR/LP3139RK Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: CP3638DW Original Permit Number: LP3139RK	EPR Reference: - Issue Date: 15/11/2016 Effective Date: 15/11/2016 Last date noted as effective: 25/01/2021 Status: EFFECTIVE
R	443m E	Operator: FCC RECYCLING (UK) LIMITED Installation Name: ARPLEY2 EPR/JB3633RP Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: LP3139RK Original Permit Number: LP3139RK	EPR Reference: - Issue Date: 08/06/2016 Effective Date: 08/06/2016 Last date noted as effective: 25/01/2021 Status: SUPERCEDED

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

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

Records within 500m

9

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 56**



ID	Location	Address	Details	
D	65m NE	Bicc Connollys Ltd, Ellis Ashton St, Huyton, L36 6BW	Process: Coating Processes Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
D	67m NE	Tricolour Printing Brickfields, Huyton Ind Est, Huyton, Liverpool, Merseyside, L33 6HY	Process: Printing Status: Revoked Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
I	167m SE	North West Truck, Unit 22, Wilson Road, Huyton Ind Est, L36 6AJ	Process: Waste Oil Burner 0.4 MW Status: Revoked Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
H	181m N	Rmc Concrete, Ellis Ashton Street, Huyton Industrial Estate, L36 6BW	Process: Use of Bulk Cement Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
H	240m N	Cemex Ltd, Ellis Ashton Street, Huyton Industrial Estate, L36 6BJ	Process: Use of Bulk Cement Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
L	243m NE	Basf Ltd, Ellis Ashton St, Liverpool, L36 6BN	Process: Coating Processes Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
M	321m NE	Essex International, Ellis Ashton Street, Huyton Ind Est, L36 6BW	Process: Coating Processes Status: Historical Permit Permit Type: Part A2	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
11	327m NE	Knowsley Mbc, Link Rd, Knowsley, L36 6AP	Process: Timber Manufacture Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
14	402m N	Basf Coatings & Inks, 101 Tenth Avenue, Deeside Industrial Park, Deeside, Clwyd, CH5 2UA	Process: Manufacture of Coating Materials 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

9

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

Features are displayed on the Current industrial land use map on **page 56**

ID	Location	Address	Details	
N	335m E	LINK ROAD COMBINED SEWER OVERFLOW, LINK ROAD, HUYTON, LIVERPOOL, MERSEYSIDE, L36 6AP	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01KNW0009 Permit Version: 1 Receiving Water: LOGWOOD MILL BROOK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 01/01/1995 Revocation Date: 02/09/2010
N	335m E	LINK ROAD COMBINED SEWER OVERFLOW, LINK ROAD, HUYTON, LIVERPOOL, MERSEYSIDE, L36 6AP	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01KNW0009 Permit Version: 2 Receiving Water: LOGWOOD MILL BROOK	Status: VARIED UNDER EPR 2010 Issue date: 03/09/2010 Effective Date: 03/09/2010 Revocation Date: 21/03/2016
N	337m E	LINK ROAD COMBINED SEWER OVERFLOW, LINK ROAD, HUYTON, LIVERPOOL, MERSEYSIDE, L36 6AP	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01KNW0009 Permit Version: 4 Receiving Water: LOGWOOD MILL BROOK VIA SWS	Status: VARIED UNDER EPR 2010 Issue date: 13/11/2019 Effective Date: 13/11/2019 Revocation Date: -
N	340m E	LINK ROAD COMBINED SEWER OVERFLOW, LINK ROAD, HUYTON, LIVERPOOL, MERSEYSIDE, L36 6AP	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01KNW0009 Permit Version: 3 Receiving Water: LOGWOOD MILL BROOK	Status: VARIED UNDER EPR 2010 Issue date: 22/03/2016 Effective Date: 22/03/2016 Revocation Date: 12/11/2019

ID	Location	Address	Details	
R	425m E	WHISTON ECCLESTON COUNCIL CAR PARK, STRETTON WAY, KNOWSLEY, L36 6JF	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: EPRWP3724GT Permit Version: 1 Receiving Water: LOGWOOD MILL BROOK	Status: SURRENDERED UNDER EPR 2010 Issue date: 20/09/2012 Effective Date: 25/10/2012 Revocation Date: 13/03/2014
S	438m E	WHISTON PARK (ECCLESTON PK) CSO, STRETTON WAY, HUYTON, KNOWSLEY, MERSEYSIDE, L36 6JF	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016983003 Permit Version: 3 Receiving Water: LONGWOOD MILL BROOK	Status: VARIED UNDER EPR 2010 Issue date: 23/03/2020 Effective Date: 23/03/2020 Revocation Date: -
R	443m E	BUITONI FOODS LTD, WILSON ROAD, HUYTON	Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: 016990405 Permit Version: 1 Receiving Water: LOGWOOD MILL BROOK	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 13/01/1983 Revocation Date: 24/10/1988
S	468m SE	WHISTON PARK (ECCLESTON PK) CSO, STRETTON WAY, HUYTON, KNOWSLEY, MERSEYSIDE, L36 6JF	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016983003 Permit Version: 1 Receiving Water: LONGWOOD MILL BROOK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 08/08/1995 Effective Date: 08/08/1995 Revocation Date: 30/11/2013
S	468m SE	WHISTON PARK (ECCLESTON PK) CSO, STRETTON WAY, HUYTON, KNOWSLEY, MERSEYSIDE, L36 6JF	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016983003 Permit Version: 2 Receiving Water: LONGWOOD MILL BROOK	Status: VARIED UNDER EPR 2010 Issue date: 29/11/2013 Effective Date: 01/12/2013 Revocation Date: 22/03/2020

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

16

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 56**

ID	Location	Details	
B	93m E	Incident Date: 09/05/2001 Incident Identification: 4926 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)
B	112m SE	Incident Date: 04/05/2001 Incident Identification: 4382 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)

ID	Location	Details	
B	118m E	Incident Date: 25/06/2003 Incident Identification: 168695 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
H	260m N	Incident Date: 19/06/2003 Incident Identification: 167274 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
10	263m NE	Incident Date: 25/02/2003 Incident Identification: 139343 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Other General Biodegradable Material or Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
O	338m N	Incident Date: 12/09/2013 Incident Identification: 1158726 Pollutant: Specific Waste Materials Pollutant Description: Commercial Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)
O	338m N	Incident Date: 12/09/2013 Incident Identification: 1158726 Pollutant: Specific Waste Materials Pollutant Description: Household Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)
P	340m NE	Incident Date: 11/05/2004 Incident Identification: 235941 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 2 (Significant)
Q	340m N	Incident Date: 17/08/2001 Incident Identification: 24888 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Other General Biodegradable Material or Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
Q	340m N	Incident Date: 17/08/2001 Incident Identification: 24888 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Other General Biodegradable Material or Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
P	349m NE	Incident Date: 10/05/2001 Incident Identification: 5190 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)



ID	Location	Details	
P	370m NE	Incident Date: 08/09/2004 Incident Identification: 265261 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
P	376m NE	Incident Date: 06/11/2003 Incident Identification: 200290 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
13	397m SE	Incident Date: 09/05/2001 Incident Identification: 4977 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)
P	398m E	Incident Date: 13/05/2004 Incident Identification: 236347 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 2 (Significant)
15	441m NW	Incident Date: 31/08/2001 Incident Identification: 28249 Pollutant: Specific Waste Materials Pollutant Description: Asbestos	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) 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
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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

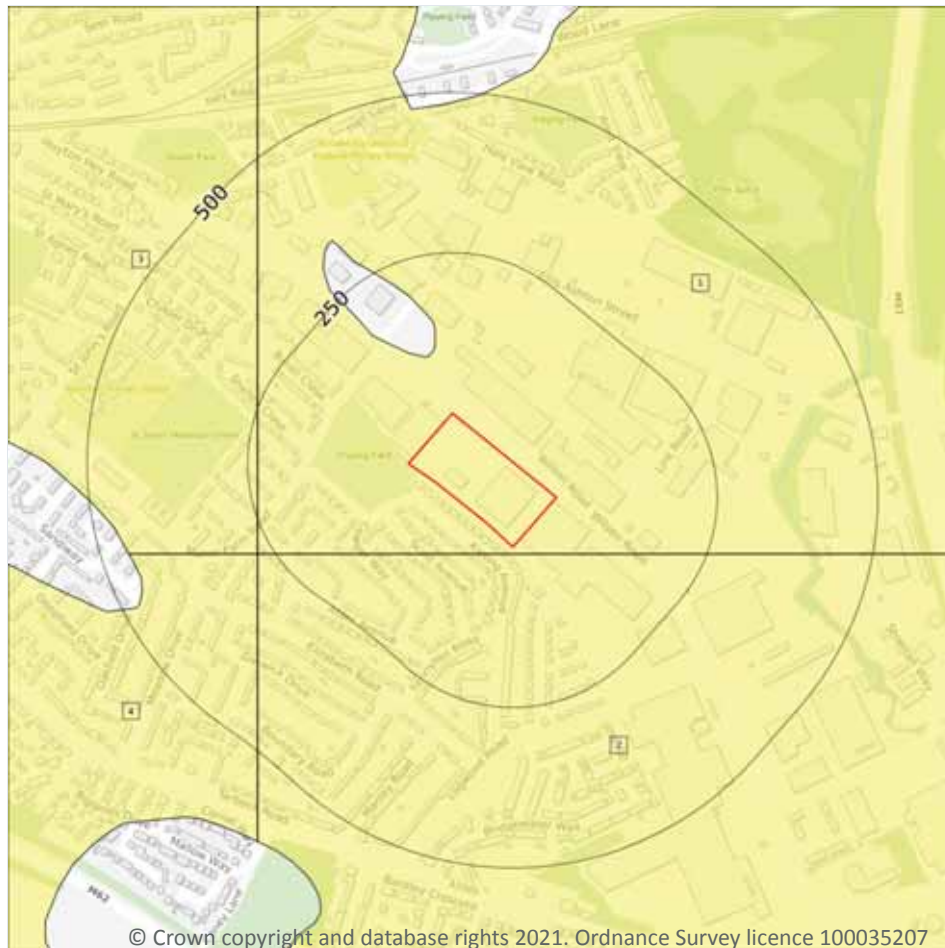
0

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



- Site Outline
- Search buffers in metres (m)
- Principal
 - Secondary A
 - Secondary B
 - Secondary Undifferentiated
 - Unproductive
 - Unknown

5.1 Superficial aquifer

Records within 500m

4

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 71**

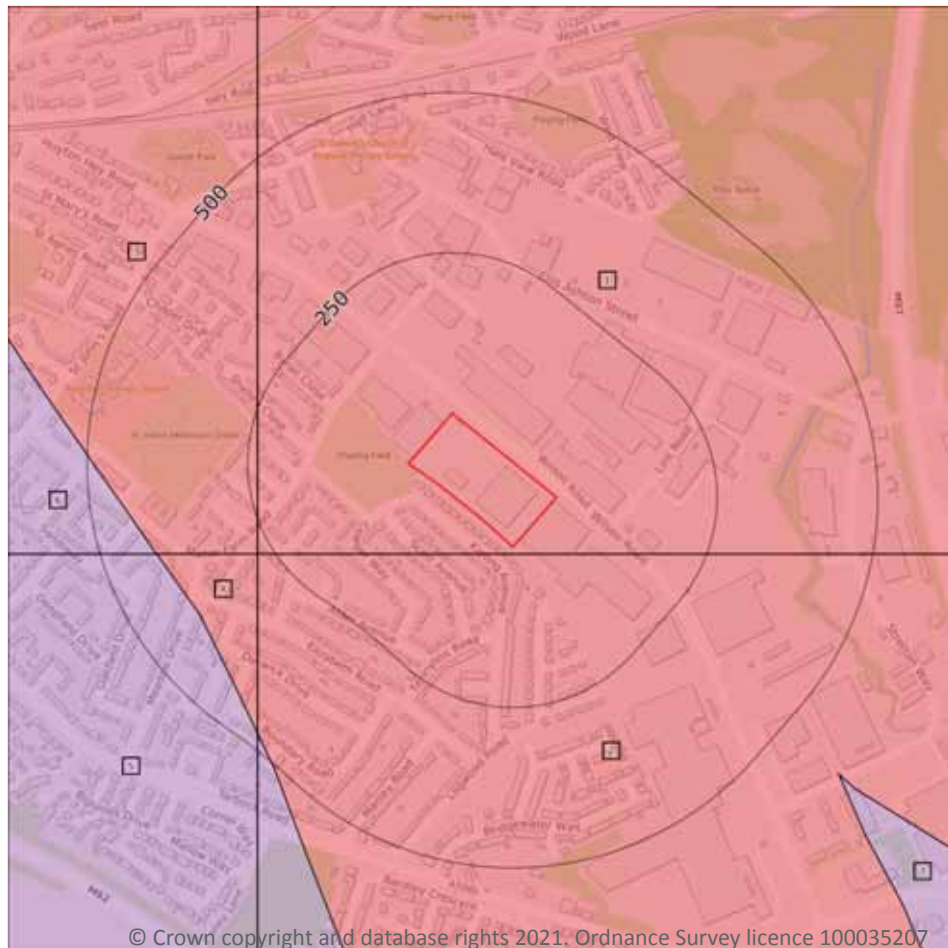
ID	Location	Designation	Description
1	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
2	11m 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

ID	Location	Designation	Description
3	235m 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
4	274m 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

7

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 73**

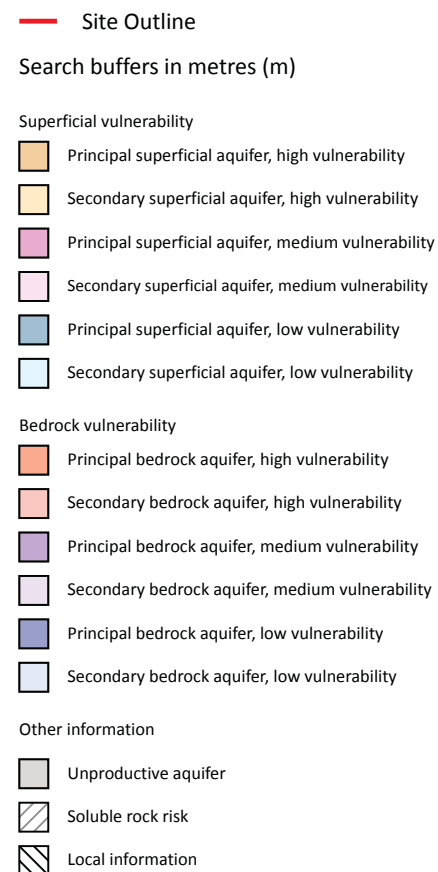
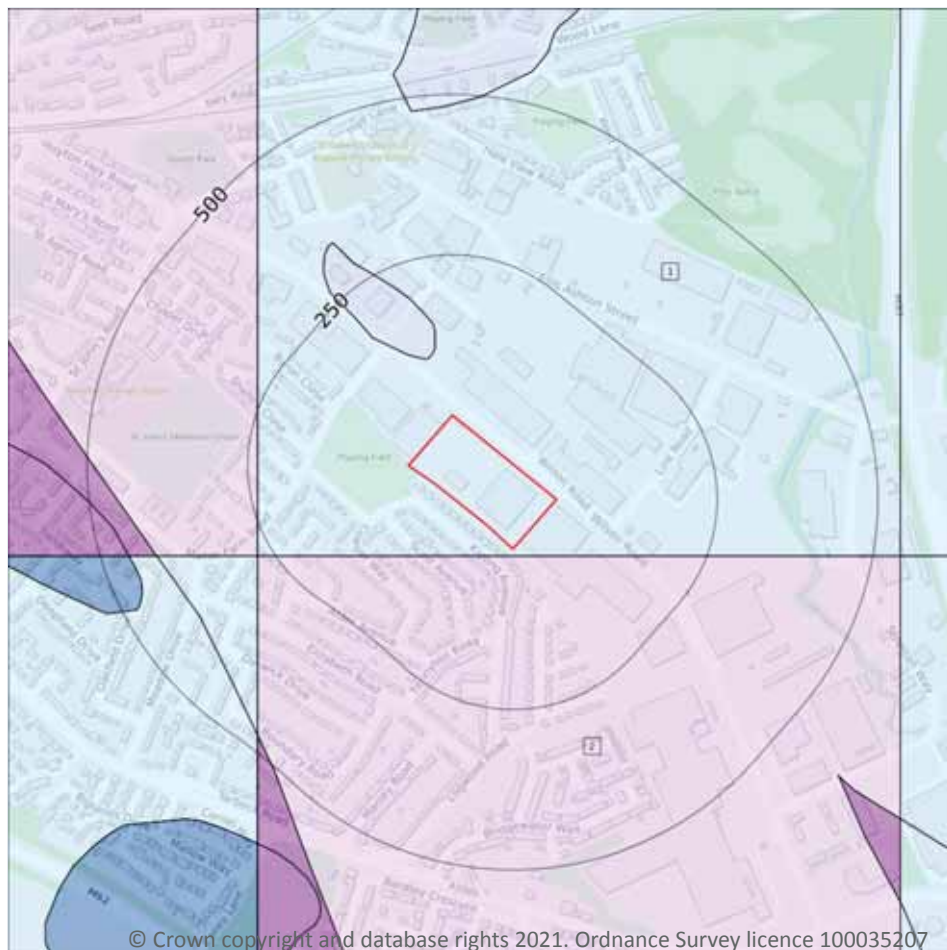
ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	11m S	Secondary 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	235m W	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
4	274m SW	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
5	401m SW	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
6	416m W	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
7	478m SW	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

2

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

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

Features are displayed on the Groundwater vulnerability map on **page 75**

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: <3m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
2	10m S	Summary Classification: Secondary 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: Low	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site

0

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

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

5.5 Groundwater vulnerability- local information

Records on site

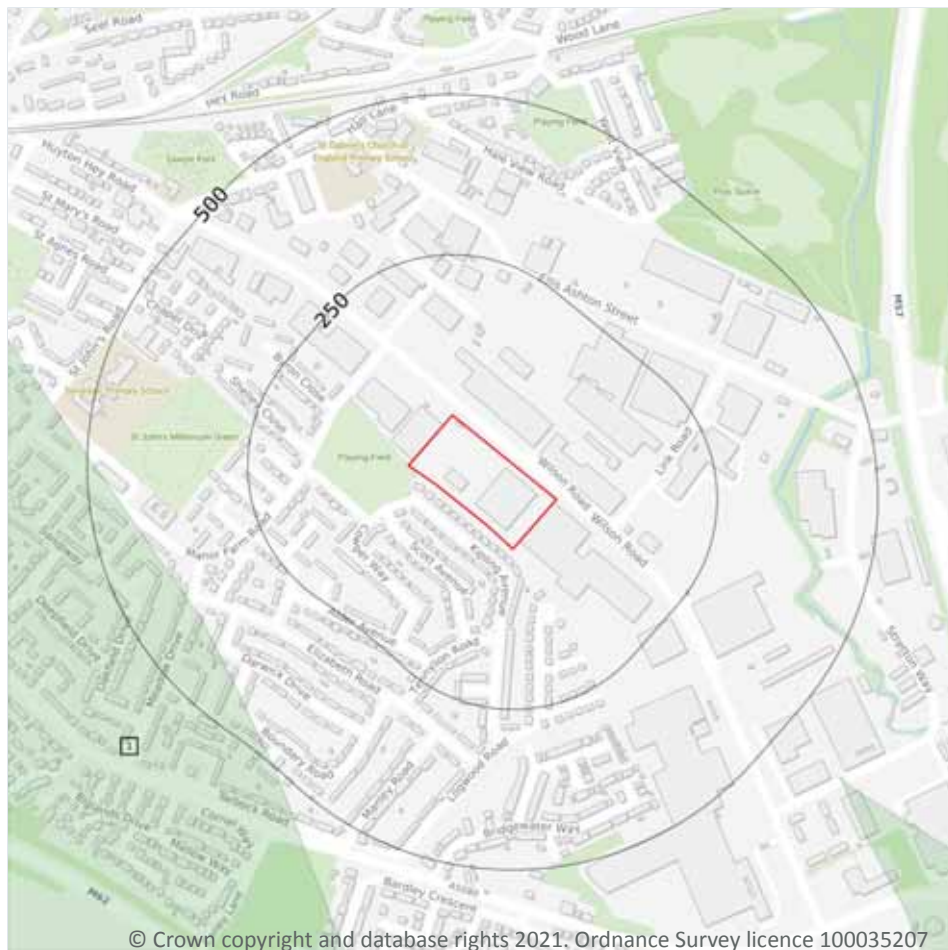
0

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

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



Abstractions and Source Protection Zones



- 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
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

3

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 77**

ID	Location	Details	
-	1978m SW	Status: Historical Licence No: 2569028012 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: "BOREHOLES (3) AT NETHERLEY PUMPING STATION, LIVERPOOL" Data Type: Point Name: UNITED UTILITIES WATER PLC Easting: 344600 Northing: 388200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/09/2001 Version End Date: -
-	1978m SW	Status: Historical Licence No: 2569028012 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: BOREHOLES (3) AT NETHERLEY PUMPING STATION, LIVERPOOL Data Type: Point Name: UNITED UTILITIES WATER PLC Easting: 344600 Northing: 388200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/09/2001 Version End Date: -
-	1978m SW	Status: Active Licence No: 2569028012 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: BOREHOLES X 3 AT NETHERLEY PUMPING STATION LIVERPOOL Data Type: Point Name: United Utilities Water Ltd Easting: 344600 Northing: 388200	Annual Volume (m ³): 4,127,000 Max Daily Volume (m ³): 11,400 Original Application No: - Original Start Date: 23/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/09/2001 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m

4

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 77**



ID	Location	Details	
-	1462m SE	Status: Historical Licence No: 2569028018 Details: Spray Irrigation - Direct Direct Source: "Surface, Non-Tidal - North West Region" Point: "OCHRE & DOG CLOG BRKS, TARBOCK HALL FARM, TARBOCK, PRESCOT" Data Type: Line Name: T H CRITCHLEY & SON Easting: 346600 Northing: 389100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 13/05/1976 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1993 Version End Date: -
-	1462m SE	Status: Historical Licence No: 2569028018 Details: Spray Irrigation - Direct Direct Source: Surface, Non-Tidal - North West Region Point: OCHRE & DOG CLOG BRKS, TARBOCK HALL FARM, TARBOCK, PRESCOT Data Type: Line Name: T H CRITCHLEY & SON Easting: 346600 Northing: 389100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 13/05/1976 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1993 Version End Date: -
-	1462m SE	Status: Historical Licence No: 2569028018 Details: Spray Irrigation - Direct Direct Source: Surface, Non-Tidal - North West Region Point: OCHRE AND DOG CLOG BROOKS TARBOCK HALL FARM PRESCOT Data Type: Line Name: T H CRITCHLEY & SON Easting: 346600 Northing: 389100	Annual Volume (m ³): 2098 Max Daily Volume (m ³): 636 Original Application No: - Original Start Date: 13/05/1976 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1993 Version End Date: -
-	1673m S	Status: Active Licence No: 2569028018 Details: Spray Irrigation - Direct Direct Source: Surface, Non-Tidal - North West Region Point: OCHRE AND DOG CLOG BROOKS TARBOCK HALL FARM PRESCOT Data Type: Line Name: BELPOOL DEVELOPMENTS LTD Easting: 346400 Northing: 388600	Annual Volume (m ³): 2,098 Max Daily Volume (m ³): 636 Original Application No: - Original Start Date: 13/05/1976 Expiry Date: - Issue No: 102 Version Start Date: 31/01/2011 Version End Date: -

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 77**

ID	Location	Details	
-	1978m SW	Status: Historical Licence No: 2569028012 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: "BOREHOLES (3) AT NETHERLEY PUMPING STATION, LIVERPOOL" Data Type: Point Name: UNITED UTILITIES WATER PLC Easting: 344600 Northing: 388200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/09/2001 Version End Date: -
-	1978m SW	Status: Historical Licence No: 2569028012 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: BOREHOLES (3) AT NETHERLEY PUMPING STATION, LIVERPOOL Data Type: Point Name: UNITED UTILITIES WATER PLC Easting: 344600 Northing: 388200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/09/2001 Version End Date: -
-	1978m SW	Status: Active Licence No: 2569028012 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: BOREHOLES X 3 AT NETHERLEY PUMPING STATION LIVERPOOL Data Type: Point Name: United Utilities Water Ltd Easting: 344600 Northing: 388200	Annual Volume (m ³): 4,127,000 Max Daily Volume (m ³): 11,400 Original Application No: - Original Start Date: 23/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/09/2001 Version End Date: -

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



5.9 Source Protection Zones

Records within 500m**1**

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 77**

ID	Location	Type	Description
1	400m SW	3	Total catchment

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

5.10 Source Protection Zones (confined aquifer)

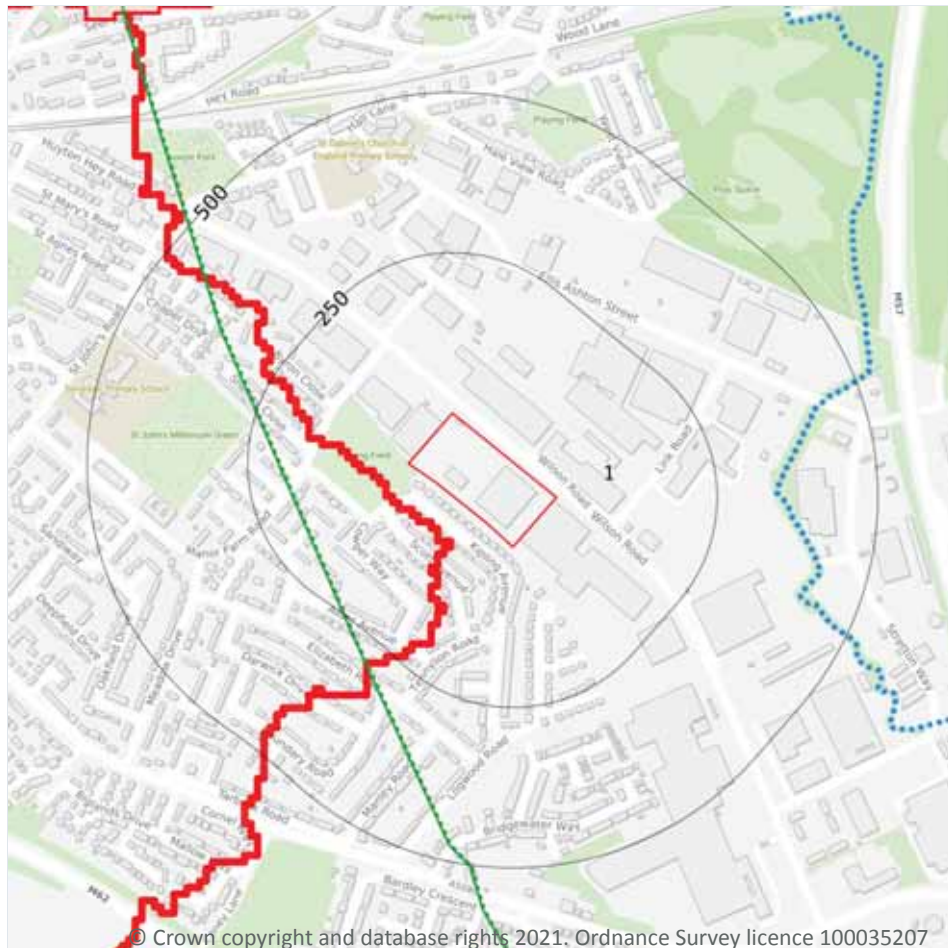
Records within 500m**0**

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

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



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

0

Detailed water network of Great Britain showing the flow and precise central course of every river, stream, lake and canal.

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

0

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.



This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site

1

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

Features are displayed on the Hydrology map on **page 82**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
1	On site	River WB catchment	Prescot Brook (Logwood Mill Brook)	GB112069060710	Ditton	Lower Mersey

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

6.4 WFD Surface water bodies

Records identified

1

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

Features are displayed on the Hydrology map on **page 82**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
4	343m E	River	Prescot Brook (Logwood Mill Brook)	GB112069060710	Poor	Good	Poor	2016

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



6.5 WFD Groundwater bodies

Records on site

0

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

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



7 River and coastal flooding

7.1 Risk of Flooding from Rivers and Sea (RoFRaS)

Records within 50m

0

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition; 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).

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

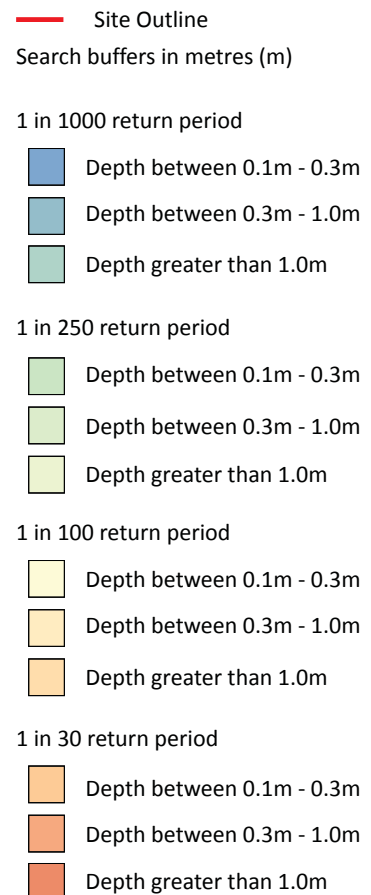
Records within 50m	0
--------------------	---

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



8.1 Surface water flooding

Highest risk on site

1 in 30 year, 0.1m - 0.3m

Highest risk within 50m

1 in 30 year, 0.1m - 0.3m

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

Features are displayed on the Surface water flooding map on **page 88**

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

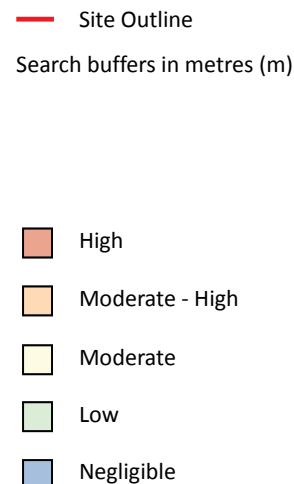
The table below shows the maximum flood depths for a range of return periods for the site.

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

This data is sourced from Ambiantal Risk Analytics.



9 Groundwater flooding



9.1 Groundwater flooding

Highest risk on site

Low

Highest risk within 50m

Low

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

Features are displayed on the Groundwater flooding map on **page 90**

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- Designated Ancient Woodland
- Green Belt

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

0

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

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m**0**

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m**0**

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m**0**

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m**0**

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

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



10.6 Local Nature Reserves (LNR)

Records within 2000m**0**

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

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

10.7 Designated Ancient Woodland

Records within 2000m**2**

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 91**

ID	Location	Name	Woodland Type
-	1420m E	The Old Wood	Ancient & Semi-Natural Woodland
-	1456m SE	The Old 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

3

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

Features are displayed on the Environmental designations map on **page 91**

ID	Location	Name	Local Authority name
1	426m NE	Merseyside and Greater Manchester	Knowsley
2	725m E	Merseyside and Greater Manchester	Knowsley
3	1005m SW	Merseyside and Greater Manchester	Liverpool

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**4**

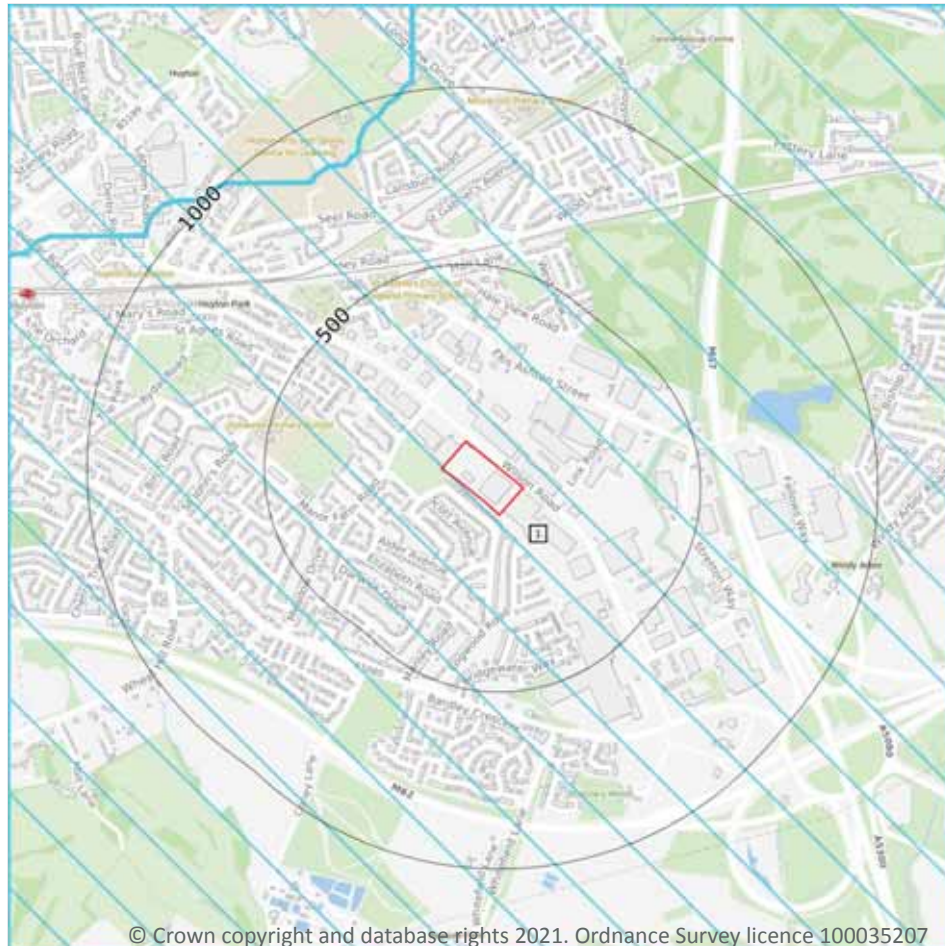
Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
On site	Dittton Brook (Halewood to Mersey Estuary) NVZ	Surface Water	S640	Existing
590m N	ALT NVZ	Surface Water	S642	Existing
1143m W	Dittton Brook (Halewood to Mersey Estuary) NVZ	Surface Water	S640	Existing
1232m NW	ALT NVZ	Surface Water	S642	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

1

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

Features are displayed on the SSSI Impact Zones and Units map on **page 96**

ID	Location	Type of developments requiring consultation
1	On site	Infrastructure - Airports, helipads and other aviation proposals. Wind and Solar - Solar schemes with footprint > 0.5ha, all wind turbines Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons > 4000m². Combustion - General combustion processes >50MW 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. 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 (NB This does not include discharges to mains sewer which are unlikely to pose a risk at this location)

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	0
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Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

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



11 Visual and cultural designations

11.1 World Heritage Sites

Records within 250m

0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

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

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

11.3 National Parks

Records within 250m

0

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

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

11.4 Listed Buildings

Records within 250m

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

1

Classification of the quality of agricultural land taking into consideration multiple factors including climate, physical geography and soil properties. It should be noted that the categories for the grading of agricultural land are not consistent across England, Wales and Scotland.

Features are displayed on the Agricultural designations map on **page 100**

ID	Location	Classification	Description
1	On site	Urban	-

This data is sourced from Natural England.



12.2 Open Access Land

Records within 250m

0

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

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

12.3 Tree Felling Licences

Records within 250m

0

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m

0

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

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m

0

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

This data is sourced from Natural England.

13 Habitat designations



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- 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

0

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

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

0

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

This data is sourced from Natural England.



13.3 Open Mosaic Habitat

Records within 250m

1

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

Features are displayed on the Habitat designations map on **page 102**

ID	Location	Site reference	Identification confidence	Primary source	Secondary source	Tertiary source
1	On site	NLUD Ref: 430500009	Low	National Land Use Database - Previously Developed Land	UK Perspectives Aerial Photography	-

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m

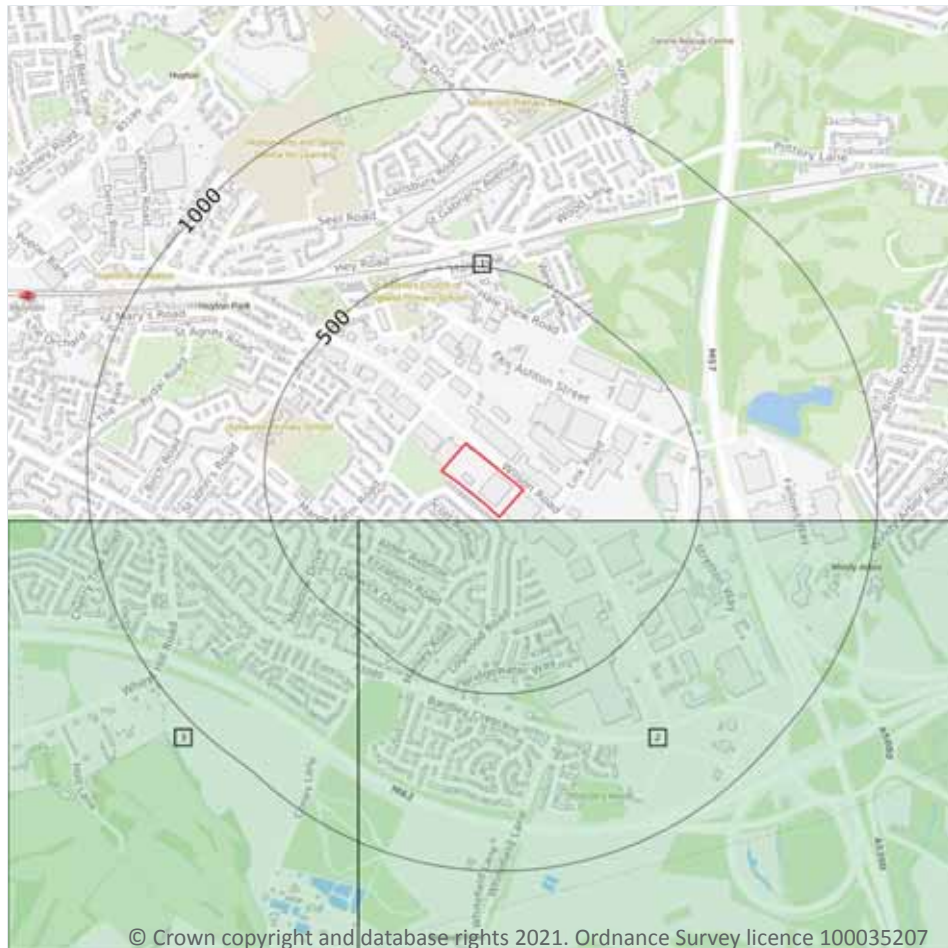
0

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



- Site Outline
- Search buffers in metres (m)
- Full coverage
 - Partial coverage
 - No coverage

14.1 10k Availability

Records within 500m

3

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 104**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	No coverage	No coverage	No coverage	NoCov
2	11m S	No coverage	Full	Full	No coverage	SJ48NE
3	274m SW	No coverage	Full	Full	No coverage	SJ48NW

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

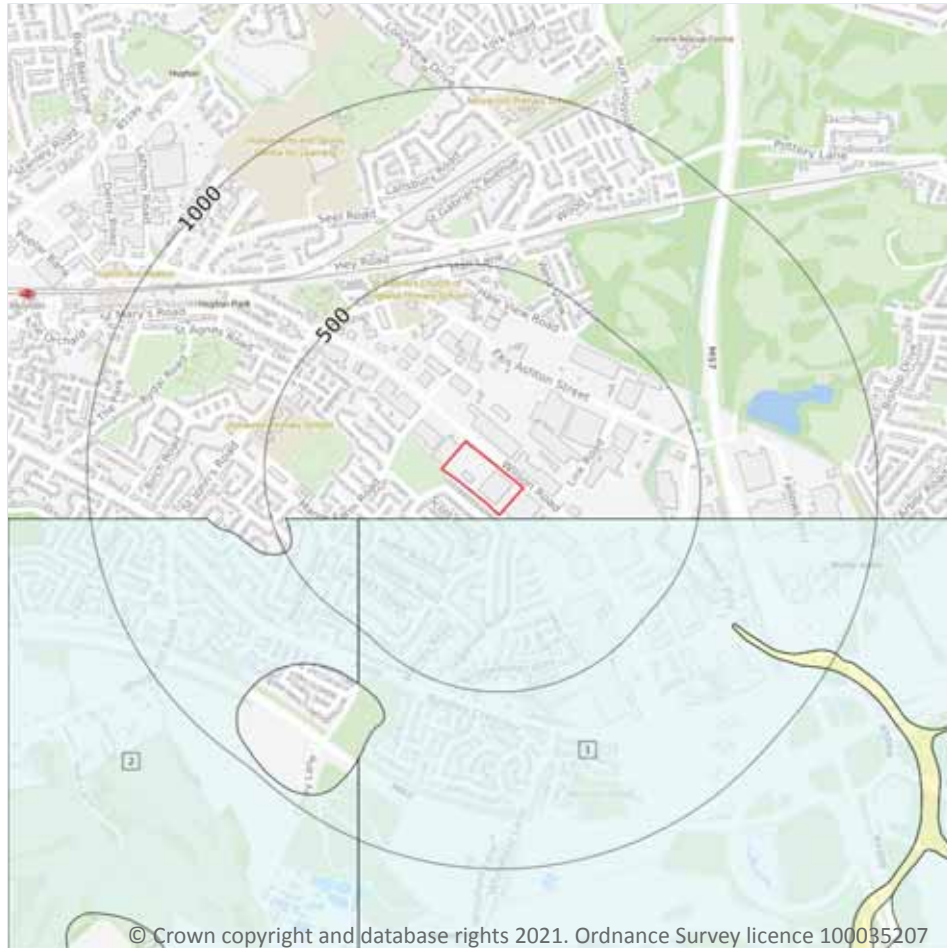
0

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



— Site Outline

Search buffers in metres (m)

▣ Landslip (10k)

Superficial geology (10k)
Please see table for more details.

14.3 Superficial geology (10k)

Records within 500m

2

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.

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 106**

ID	Location	LEX Code	Description	Rock description
1	11m S	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
2	274m SW	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

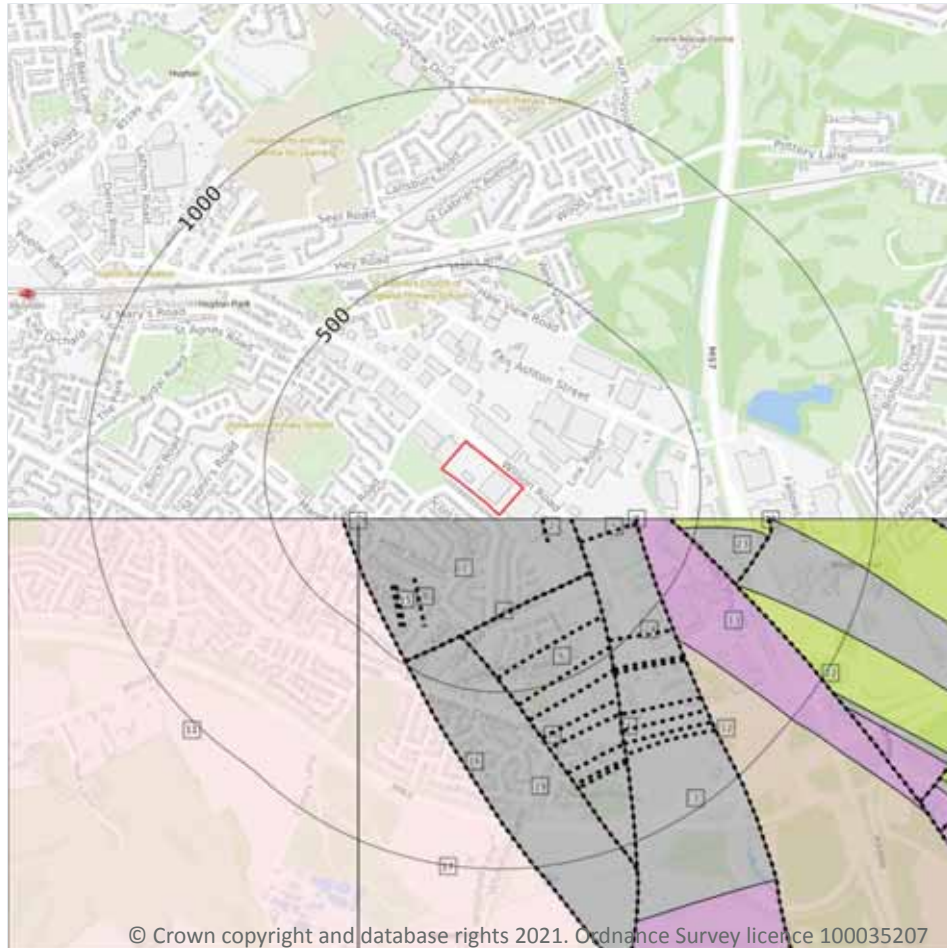
0

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



— Site Outline

Search buffers in metres (m)

.... Bedrock faults and other linear features (10k)

Bedrock geology (10k)
Please see table for more details.

14.5 Bedrock geology (10k)

Records within 500m

10

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.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 108**

ID	Location	LEX Code	Description	Rock age
1	11m S	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
3	161m SE	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age

ID	Location	LEX Code	Description	Rock age
6	256m SE	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
7	274m SW	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
11	313m SW	WLSF-SDST	Wilmslow Sandstone Formation - Sandstone	Early Triassic Epoch
13	329m E	ETM-MDSC	Etruria Formation - Mudstone, Sandstone And Conglomerate	Westphalian Age
17	355m SW	WLSF-SDST	Wilmslow Sandstone Formation - Sandstone	Early Triassic Epoch
19	358m S	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
21	423m E	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
23	459m E	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

17

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.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 108**

ID	Location	Category	Description
2	99m SE	ROCK	Coal seam, inferred (None)
4	161m SE	FAULT	Normal fault, inferred; crossmarks on downthrow side
5	222m SE	ROCK	Coal seam, inferred (None)
A	256m SE	FAULT	Normal fault, inferred; crossmarks on downthrow side
A	256m SE	FAULT	Normal fault, inferred; crossmarks on downthrow side
8	293m SW	ROCK	Coal seam, observed (None)
9	308m E	ROCK	Coal seam, observed (None)
10	313m SW	FAULT	Normal fault, inferred; crossmarks on downthrow side



ID	Location	Category	Description
12	329m E	FAULT	Normal fault, inferred; crossmarks on downthrow side
14	341m SW	ROCK	Coal seam, observed (None)
15	348m SW	ROCK	Coal seam, observed (None)
16	355m SW	FAULT	Normal fault, inferred; crossmarks on downthrow side
18	358m S	FAULT	Normal fault, inferred; crossmarks on downthrow side
20	390m SE	ROCK	Coal seam, inferred (None)
22	423m E	FAULT	Normal fault, inferred; crossmarks on downthrow side
24	470m SE	ROCK	Coal seam, inferred (None)
25	480m SE	ROCK	Coal seam, inferred (None)

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 111**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	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

15.2 Artificial and made ground (50k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

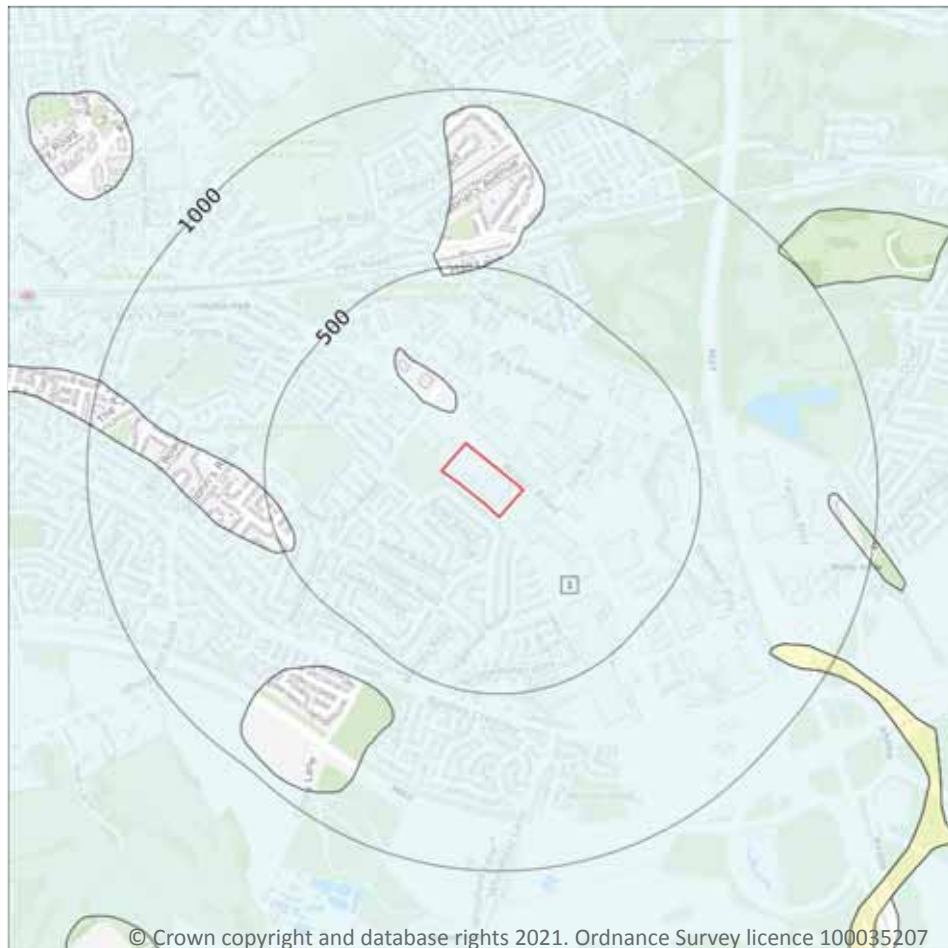
0

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



— Site Outline

Search buffers in metres (m)

▣ Landslip (50k)

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

15.4 Superficial geology (50k)

Records within 500m

1

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

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 113**

ID	Location	LEX Code	Description	Rock description
1	On site	TILLD-DMTN	TILL, DEVANSIAN	DIAMICTON

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m**2**

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	High	Low
11m SE	Mixed	High	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.

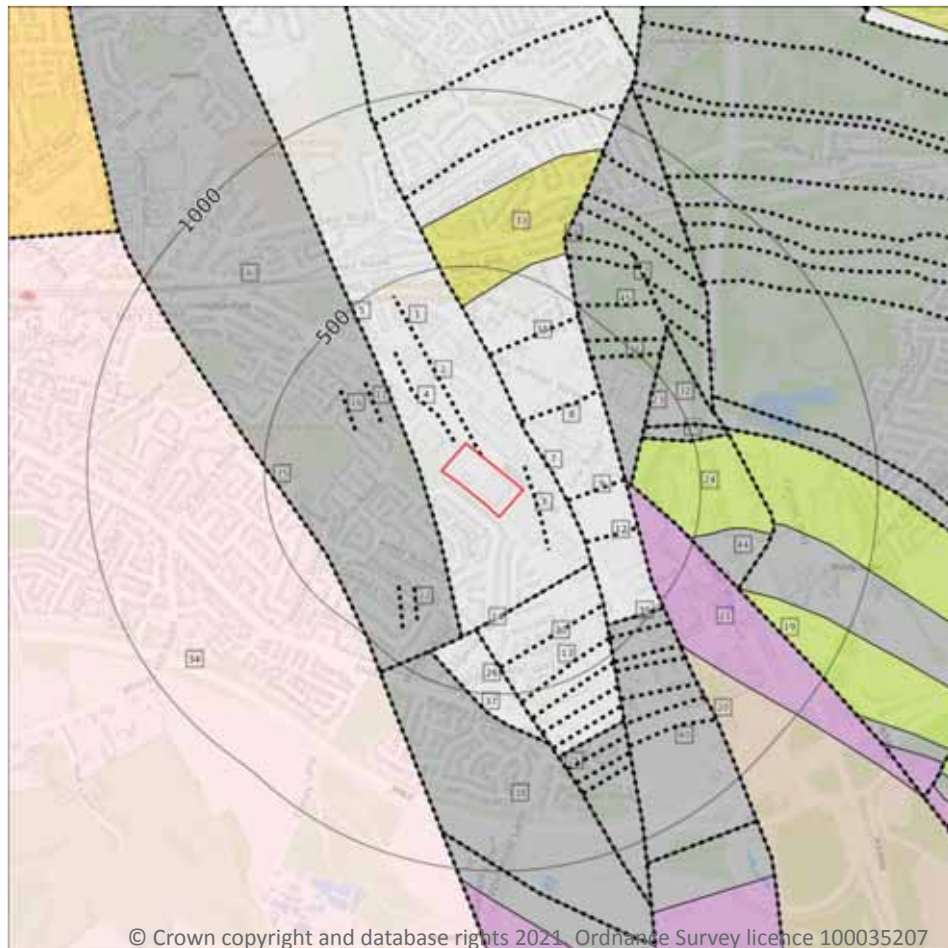
15.7 Landslip permeability (50k)

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

15

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 115**

ID	Location	LEX Code	Description	Rock age
1	On site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
6	60m W	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN

ID	Location	LEX Code	Description	Rock age
8	95m NE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
13	244m SE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
17	285m E	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
21	288m E	ETM-MDSC	ETRURIA FORMATION - MUDSTONE, SANDSTONE AND CONGLOMERATE	WESTPHALIAN
24	304m E	PMCM-SDST	PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
26	325m S	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
28	364m NE	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
32	384m NE	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
33	386m N	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
34	401m SW	WLSF-SDST	WILMSLOW SANDSTONE FORMATION - SANDSTONE	-
38	426m SW	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
40	431m SE	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
44	487m E	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	2
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A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Fracture	High	Low
11m SE	Fracture	High	Low



This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m

30

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 115**

ID	Location	Category	Description
2	0m NE	FAULT	Fault, inferred
3	24m E	ROCK	Coal seam, inferred
4	24m NW	FAULT	Fault, inferred, displacement unknown
5	60m W	FOSSIL_HORIZON	Marine band
7	95m NE	FAULT	Fault, inferred
9	128m E	ROCK	Coal seam, inferred
10	145m NE	ROCK	Coal seam, inferred
11	220m NW	ROCK	Coal seam, inferred
12	230m SE	ROCK	Coal seam, inferred
14	244m SE	FAULT	Fault, inferred
15	258m N	ROCK	Coal seam, inferred
16	269m NW	ROCK	Coal seam, inferred
18	285m E	FAULT	Fault, inferred, displacement unknown
19	288m E	FAULT	Fault, inferred
20	288m E	FAULT	Fault, inferred
22	300m SW	ROCK	Coal seam, inferred
23	304m E	FAULT	Fault, inferred
25	325m S	FAULT	Fault, inferred, displacement unknown
27	332m SW	ROCK	Coal seam, inferred
29	364m NE	ROCK	Coal seam, inferred
30	365m SE	ROCK	Coal seam, inferred



ID	Location	Category	Description
31	384m NE	FOSSIL_HORIZON	Marine band
35	401m SW	FAULT	Fault, inferred
36	409m NE	ROCK	Coal seam, inferred
37	426m SW	FOSSIL_HORIZON	Marine band
39	431m SE	FOSSIL_HORIZON	Marine band
41	437m NE	ROCK	Coal seam, inferred
42	456m SE	ROCK	Coal seam, inferred
43	463m SE	ROCK	Coal seam, inferred
45	498m NE	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.



16 Boreholes

16.1 BGS Boreholes

Records within 250m

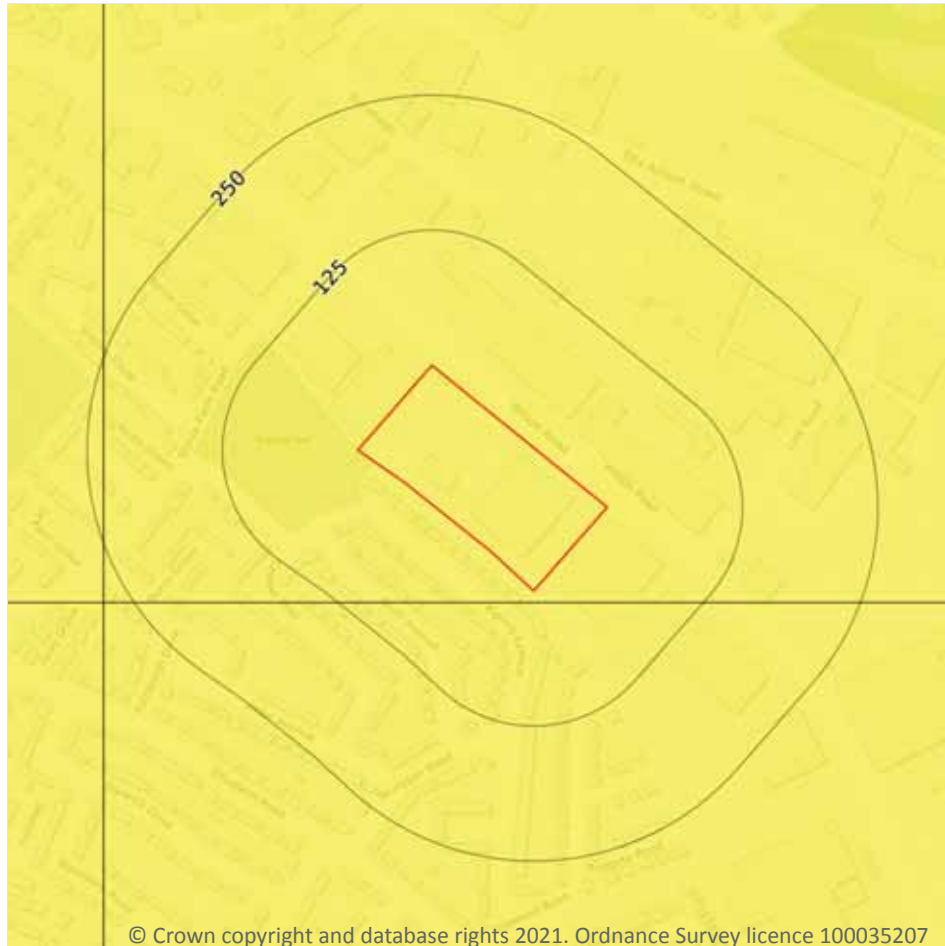
0

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.

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

2

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

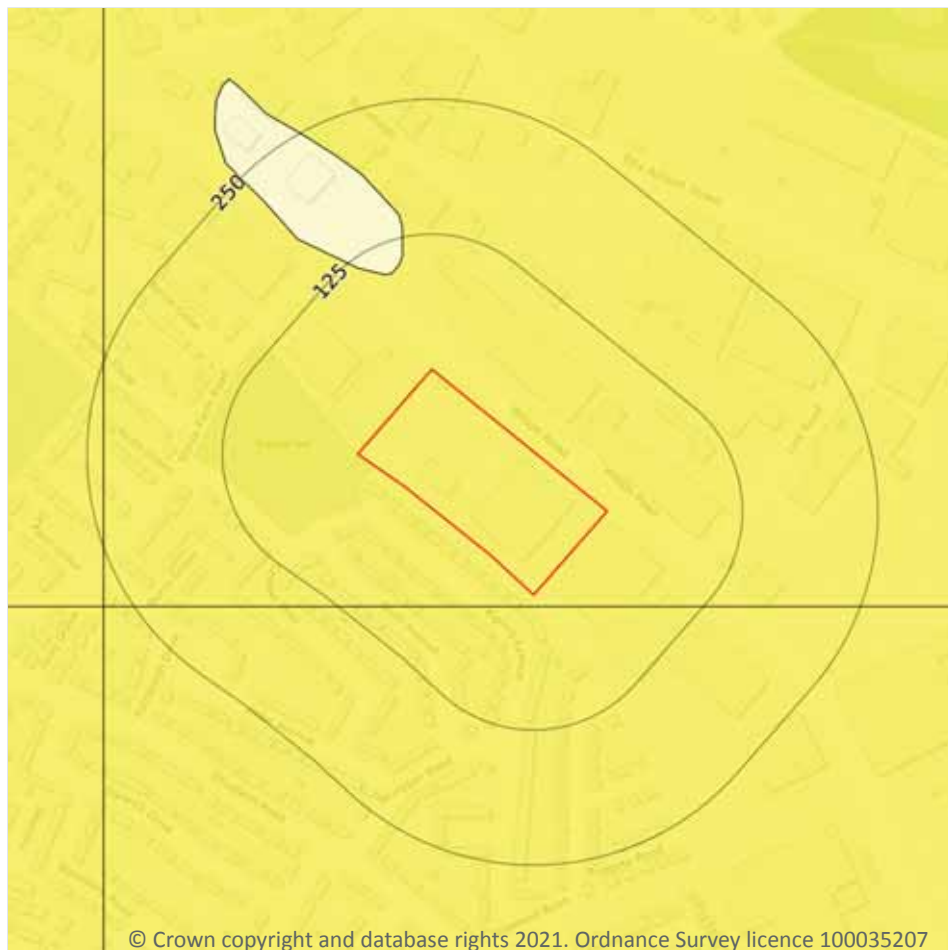
Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 120**

Location	Hazard rating	Details
On site	Very low	Ground conditions predominantly low plasticity.
11m S	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

2

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 121**

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.

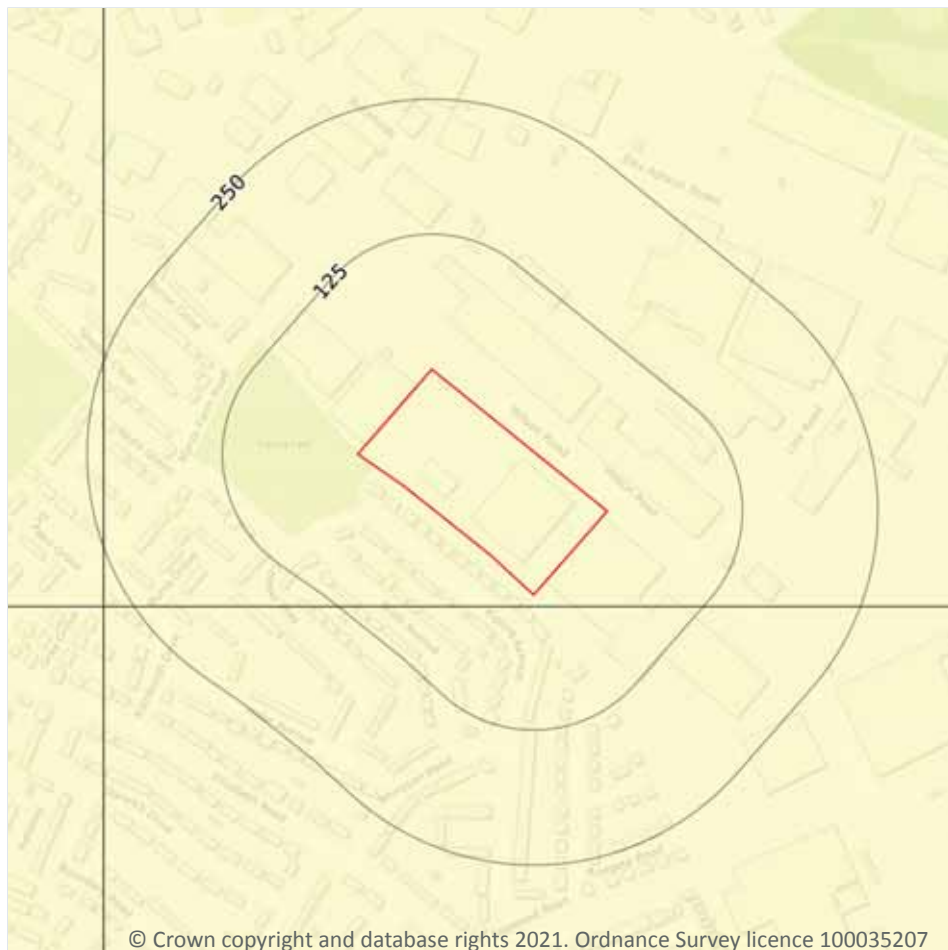


Location	Hazard rating	Details
11m S	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

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

2

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.

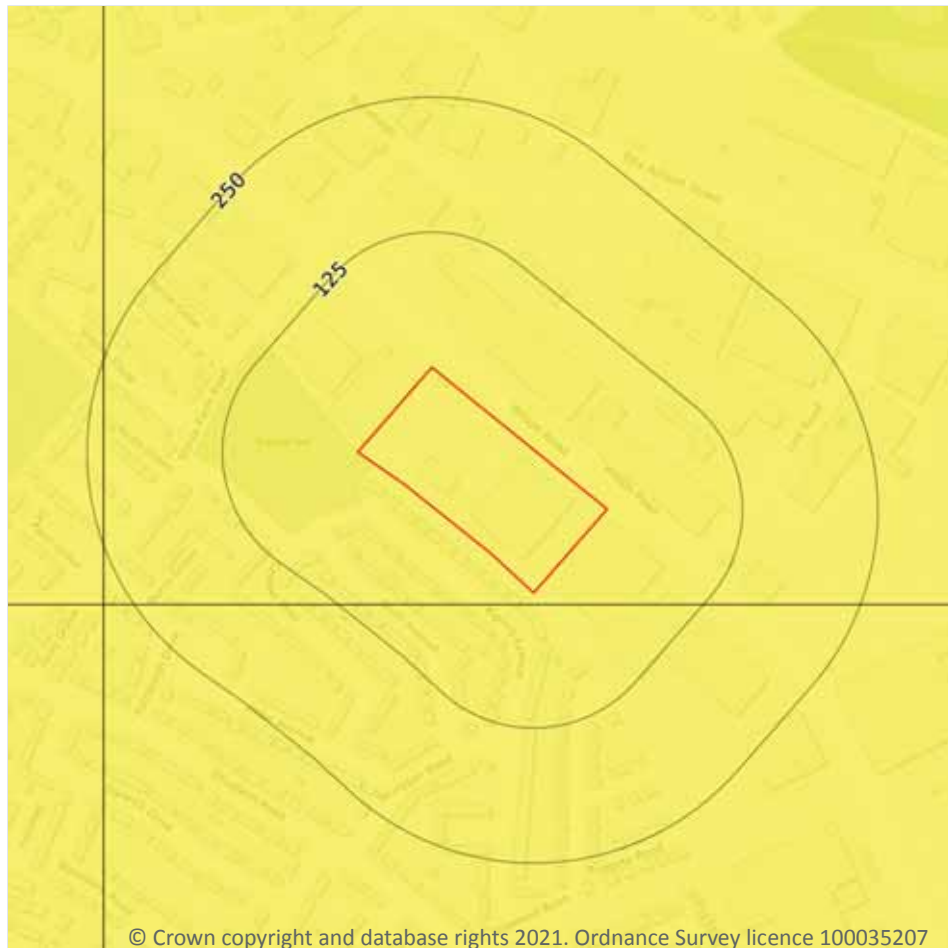
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 123**

Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.
11m S	Negligible	Compressible strata are not thought to occur.

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

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.

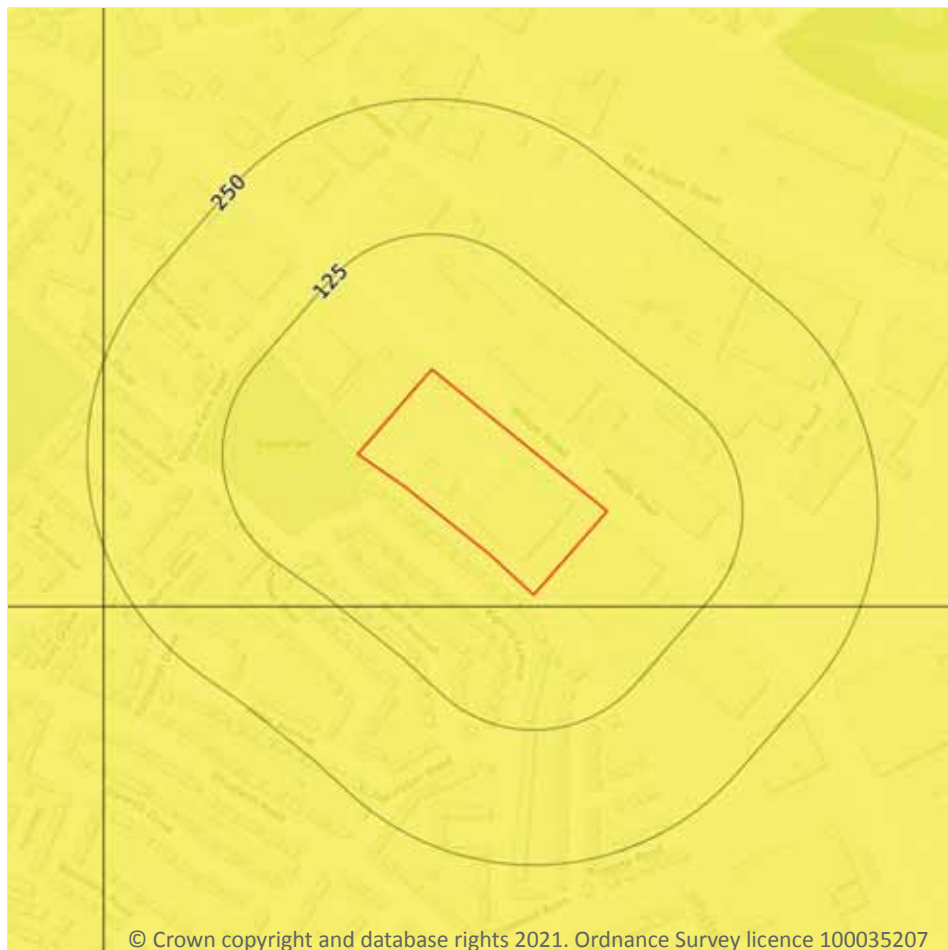
Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 124**

Location	Hazard rating	Details
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.
11m S	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

2

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

Features are displayed on the Natural ground subsidence - Landslides map on **page 125**

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.

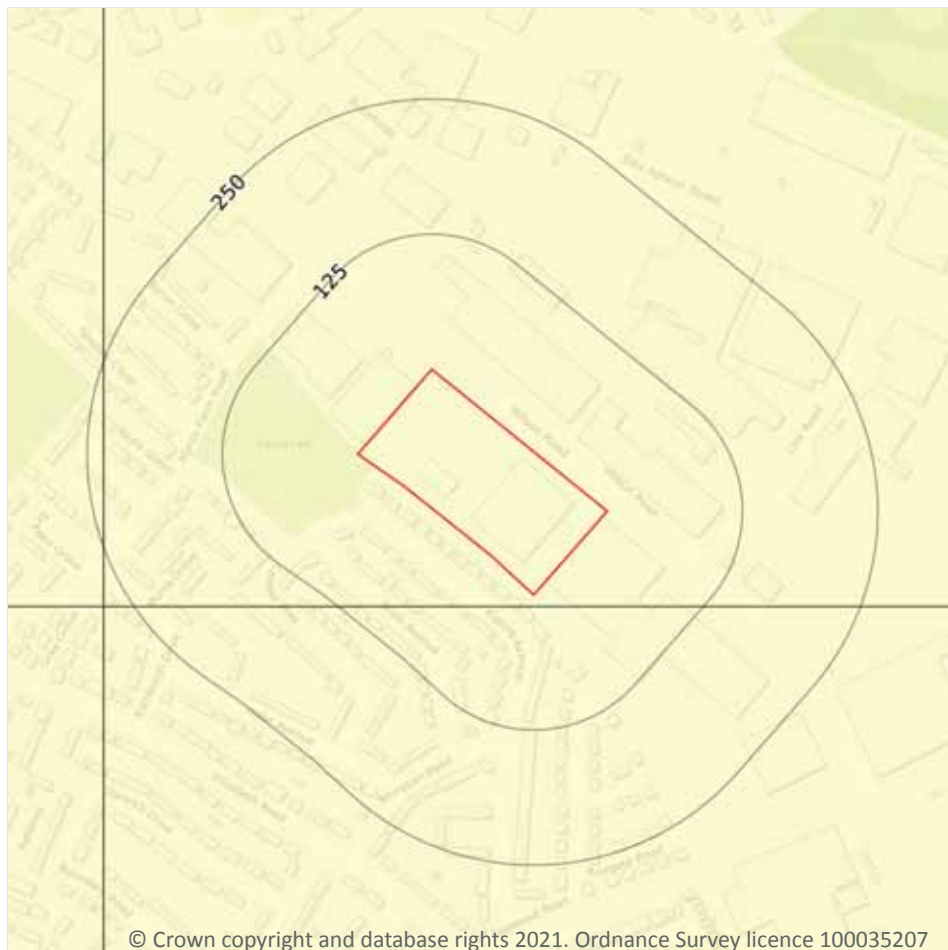


Location	Hazard rating	Details
11m S	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.6 Ground dissolution of soluble rocks

Records within 50m

2

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 127**

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.

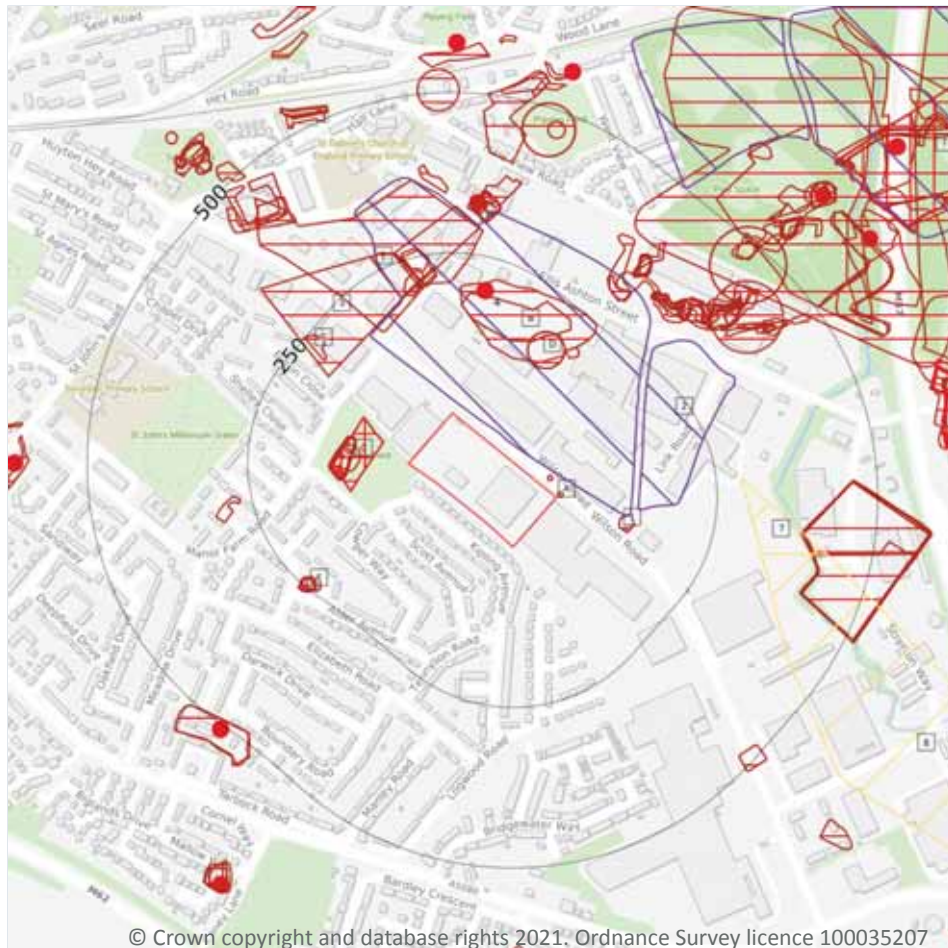


Location	Hazard rating	Details
11m S	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.

This data is sourced from the British Geological Survey.



18 Mining, ground workings and natural cavities



- Site Outline
- Search buffers in metres (m)
- Natural cavities (Area)
 - Natural cavities (Point)
 - BritPits
 - Surface ground workings
 - Underground workings
 - Historical Mineral Planning Areas
 - Mining Cavities
- Non Coal Mining
 - Sporadic underground mining of restricted extent possible
 - Localised small scale underground mining possible
 - Small scale mining possible
 - Underground mining known or likely within or in close proximity
 - Underground mining known within or in very close proximity

18.1 Natural cavities

Records within 500m

0

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

This data is sourced from Stantec UK Ltd.

18.2 BritPits

Records within 500m

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, ground workings and natural cavities map on **page 129**

ID	Location	Details	Description
4	198m N	Name: Huyton Quarry Brickworks Address: Huyton Quarry, HUYTON-WITH-ROBY, Merseyside Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
H	331m N	Name: Huyton Quarry Pottery Address: Huyton Quarry, HUYTON-WITH-ROBY, Merseyside Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m

32

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 129**

ID	Location	Land Use	Year of mapping	Mapping scale
A	4m NE	Coal Pits	1851	1:10560
A	13m NE	Coal Pits	1851	1:10560
C	51m NW	Colliery	1891	1:10560
C	76m W	Unspecified Ground Workings	1891	1:10560
C	87m W	Unspecified Heap	1925	1:10560
C	87m W	Unspecified Heap	1906	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
C	88m W	Unspecified Heap	1925	1:10560
C	88m W	Unspecified Heap	1955	1:10560
C	89m W	Unspecified Heap	1938	1:10560
C	89m W	Unspecified Heap	1938	1:10560
1	104m E	Unspecified Heap	1966	1:10560
B	121m NE	Unspecified Pit	1966	1:10560
D	140m NE	Unspecified Quarry	1975	1:10000
D	140m NE	Unspecified Quarry	1990	1:10000
B	143m NE	Pond	1966	1:10560
E	165m NW	Brick Fields	1975	1:10000
3	179m NW	Brick Works	1955	1:10560
D	181m NE	Unspecified Pit	1966	1:10560
E	192m N	Unspecified Pit	1966	1:10560
E	196m NW	Brick Works	1938	1:10560
E	196m NW	Brick Works	1938	1:10560
E	200m N	Ponds	1925	1:10560
E	203m N	Pond	1925	1:10560
5	203m NW	Pond	1891	1:10560
E	208m N	Unspecified Ground Workings	1906	1:10560
E	227m N	Pond	1925	1:10560
F	230m SW	Unspecified Heap	1950	1:10560
F	234m SW	Unspecified Heap	1925	1:10560
F	235m SW	Unspecified Heap	1925	1:10560
F	235m SW	Unspecified Heap	1906	1:10560
F	235m SW	Unspecified Heap	1938	1:10560
F	235m SW	Unspecified Heap	1938	1:10560

This data is sourced from Ordnance Survey/Groundsure.



18.4 Underground workings

Records within 1000m

38

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, ground workings and natural cavities map on **page 129**

ID	Location	Land Use	Year of mapping	Mapping scale
C	51m NW	Colliery	1891	1:10560
C	92m W	Unspecified Old Shafts	1947	1:10560
C	100m W	Unspecified Old Shafts	1947	1:10560
C	101m W	Unspecified Old Shafts	1947	1:10560
C	103m W	Unspecified Old Shaft	1925	1:10560
C	103m W	Unspecified Old Shaft	1906	1:10560
F	250m SW	Unspecified Old Shaft	1925	1:10560
F	250m SW	Unspecified Old Shaft	1906	1:10560
V	606m E	Old Colliery	1947	1:10560
V	606m E	Old Colliery	1925	1:10560
V	606m E	Old Colliery	1906	1:10560
V	606m E	Old Colliery	1891	1:10560
V	610m E	Old Colliery	1947	1:10560
V	613m E	Unspecified Disused Mine	1966	1:10560
L	622m NE	Unspecified Old Shaft	1891	1:10560
X	625m E	Disused Colliery	1947	1:10560
X	625m E	Disused Colliery	1925	1:10560
-	636m E	Unspecified Old Shaft	1947	1:10560
-	636m E	Unspecified Old Shaft	1925	1:10560
-	637m E	Unspecified Disused Shaft	1966	1:10560
-	639m E	Unspecified Old Shaft	1947	1:10560
T	673m NE	Disused Colliery	1906	1:10560
-	793m E	Colliery	1891	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
-	817m E	Disused Colliery	1906	1:10560
-	823m E	Unspecified Disused Mine	1966	1:10560
-	867m E	Unspecified Old Shaft	1947	1:10560
-	897m NE	Colliery	1891	1:10560
-	904m E	Unspecified Shafts	1891	1:10560
-	916m E	Unspecified Old Shafts	1947	1:10560
-	916m E	Unspecified Old Shafts	1925	1:10560
-	918m E	Unspecified Old Shaft	1947	1:10560
-	920m E	Unspecified Disused Shaft	1966	1:10560
-	920m E	Unspecified Old Shafts	1947	1:10560
-	920m E	Unspecified Old Shafts	1925	1:10560
-	922m E	Unspecified Old Shaft	1947	1:10560
-	922m E	Unspecified Disused Shaft	1966	1:10560
-	936m E	Old Colliery	1891	1:10560
-	949m E	Old Colliery	1906	1:10560

This data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m

2

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, ground workings and natural cavities map on **page 129**

ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
B	17m NE	Huyton	Clay, shale, bricks	Surface mineral working	Valid	31/5/48,12/5/50
2	128m E	Huyton	Clay, shale, bricks	Surface mineral working	Valid	31/5/48,12/5/50

This data is sourced from the British Geological Survey.



18.6 Non-coal mining

Records within 1000m

2

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 129**

ID	Location	Name	Commodity	Class	Likelihood
7	288m E	Not available	Vein Mineral	A	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered
8	331m E	Not available	Vein Mineral	A	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m

0

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

This data is sourced from Stantec UK Ltd.

18.8 JPB mining areas

Records on site

0

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

This data is sourced from Johnson Poole and Bloomer.



18.9 Coal mining

Records on site	1
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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.

18.10 Brine areas

Records on site	0
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The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

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

18.11 Gypsum areas

Records on site	0
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Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

Records on site	0
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Generalised areas that may be affected by historical tin mining.

This data is sourced from Mining Searches UK.

18.13 Clay mining

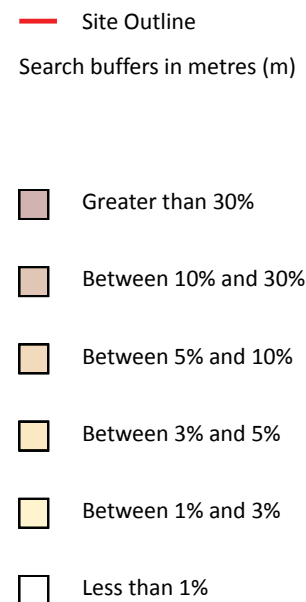
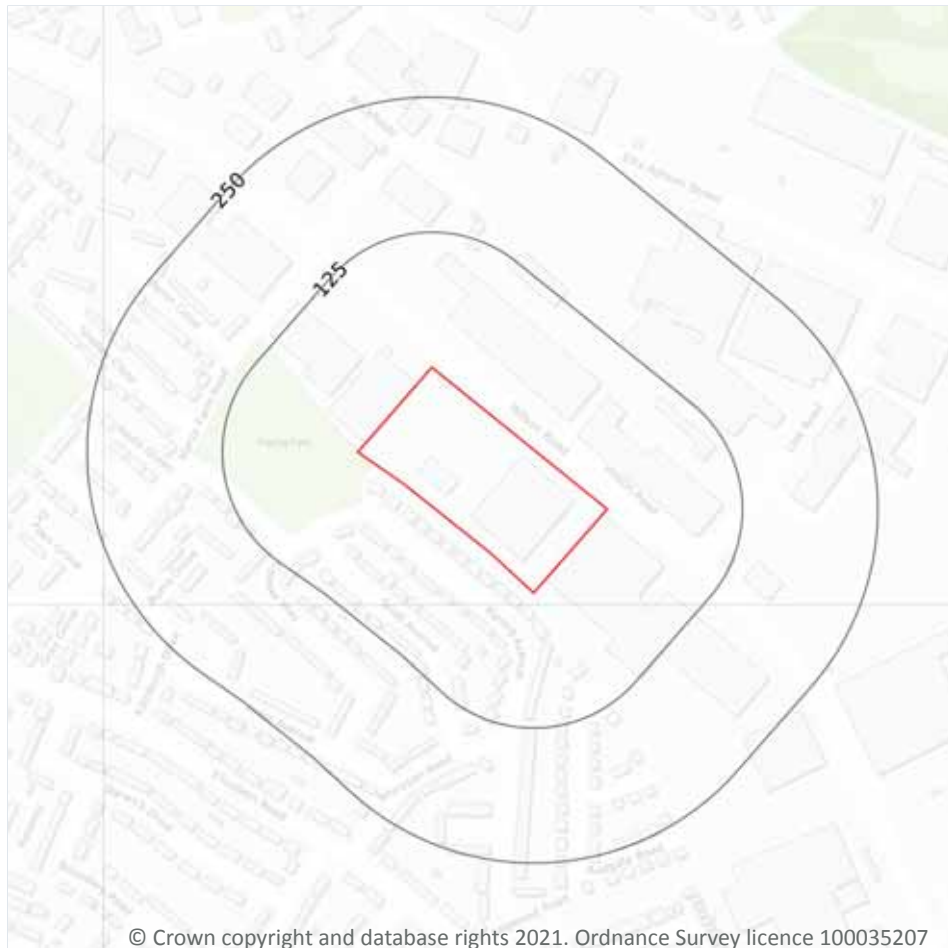
Records on site	0
-----------------	---

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

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



19 Radon



19.1 Radon

Records on site

1

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

Features are displayed on the Radon map on **page 136**

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

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



20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m

3

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
11m S	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
35m E	15 - 25 mg/kg	No data	200 - 300 mg/kg	120 - 240 mg/kg	1.8 - 2.2 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km²).

This data is sourced from the British Geological Survey.

20.3 BGS Measured Urban Soil Chemistry

Records within 50m

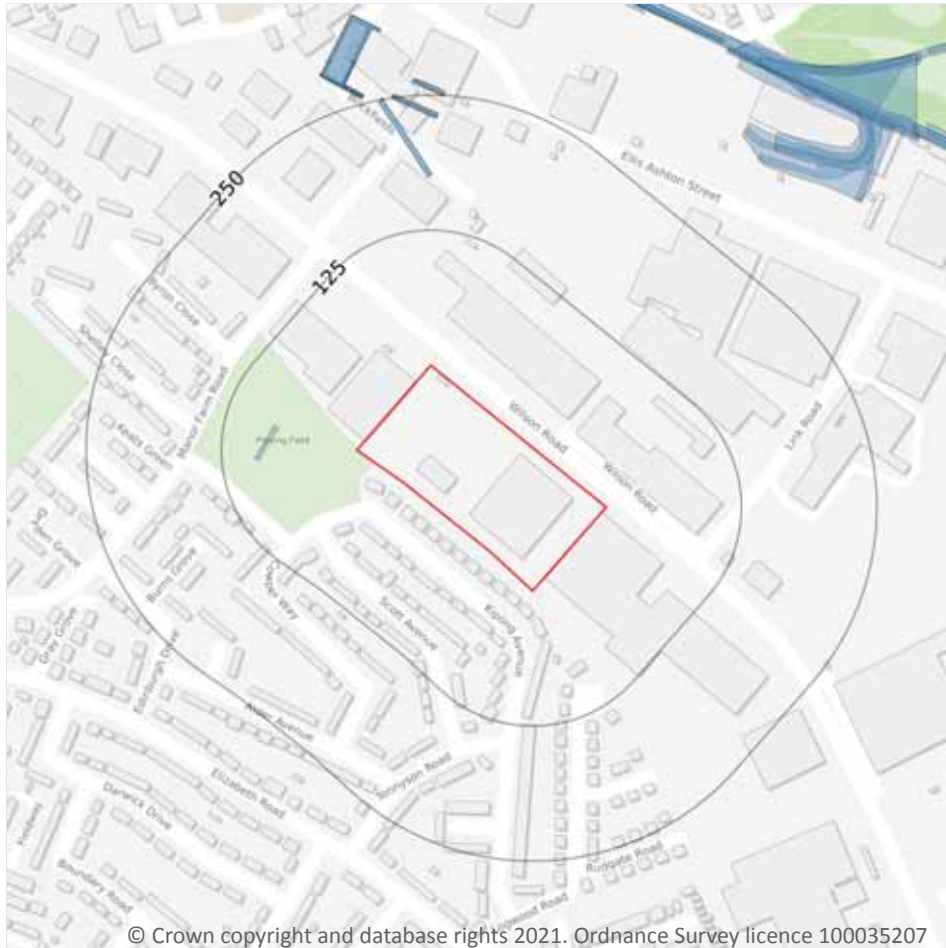
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The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km².

This data is sourced from the British Geological Survey.



21 Railway infrastructure and projects



- Site Outline
- Search buffers in metres (m)
- C1 Crossrail 1 Stations
- Crossrail 1 Route
- Crossrail 1 Worksites
- C2 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

21.1 Underground railways (London)

Records within 250m

0

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

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m

0

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



This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m

9

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 138**

Location	Land Use	Year of mapping	Mapping scale
74m W	Railway Sidings	1892	2500
174m N	Railway Sidings	1959	2500
174m N	Railway Sidings	1956	2500
229m N	Railway Sidings	1956	1250
229m N	Railway Sidings	1959	2500
229m N	Railway Sidings	1956	2500
249m N	Railway Sidings	1956	1250
250m N	Railway Sidings	1959	2500
250m N	Railway Sidings	1956	2500

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m

0

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

This data is sourced from Groundsure/the Postal Museum.



21.6 Historical railways

Records within 250m

0

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

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m

0

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

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 Crossrail 1

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

21.10 HS2

Records within 500m

0

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

This data is sourced from HS2 Ltd.



Data providers

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

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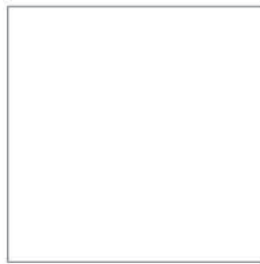
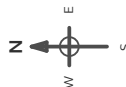
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Map Name: County Series

Map date: 1892

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A

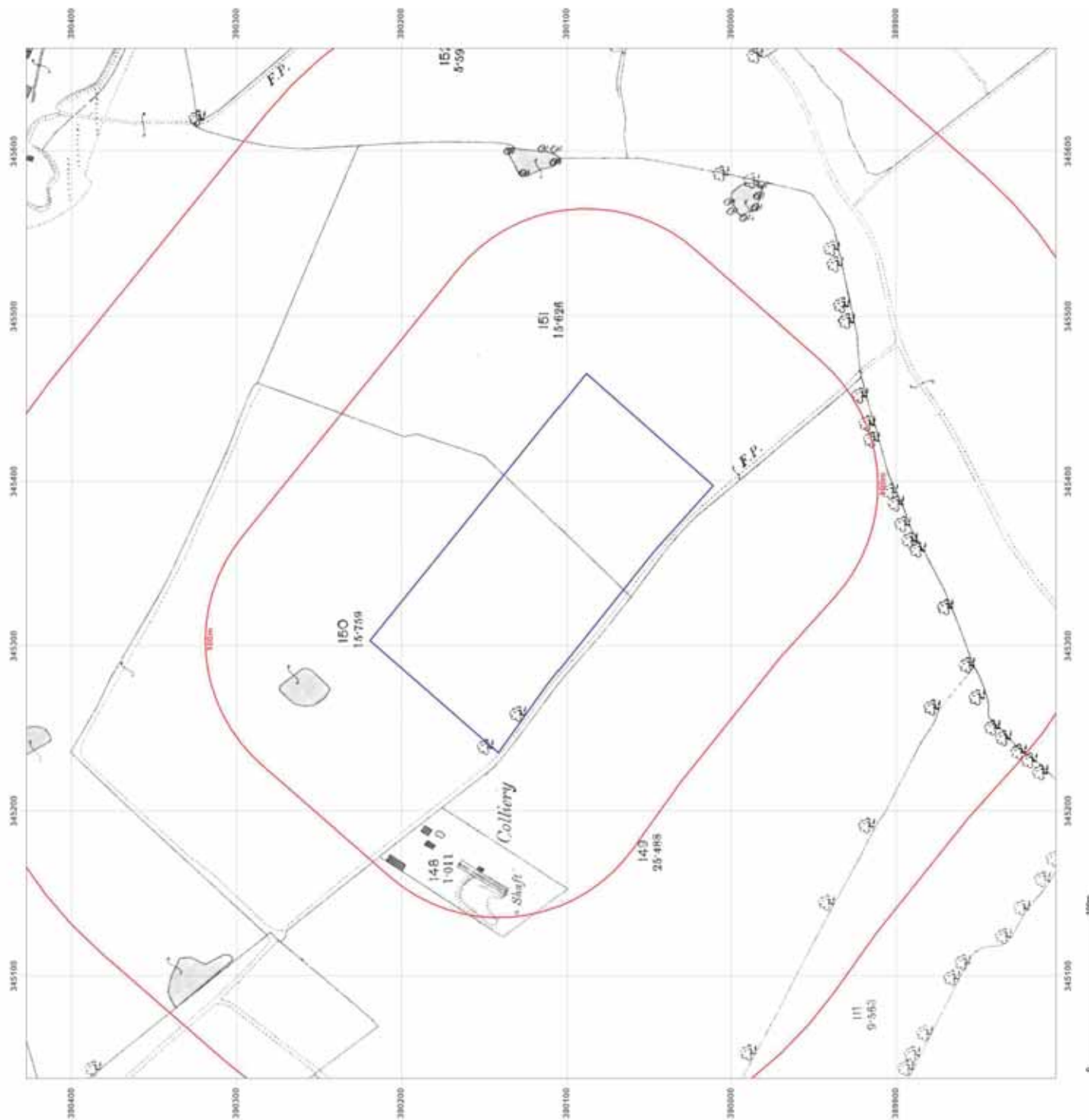


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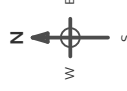
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Report Ref: GS-7735271
Grid Ref: 345350, 390115

Map Name: County Series

Map date: 1907

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Printed at: 1:2,500



Surveyed 1907
Revised 1907
Edition N/A
Copyright N/A
Levelled N/A

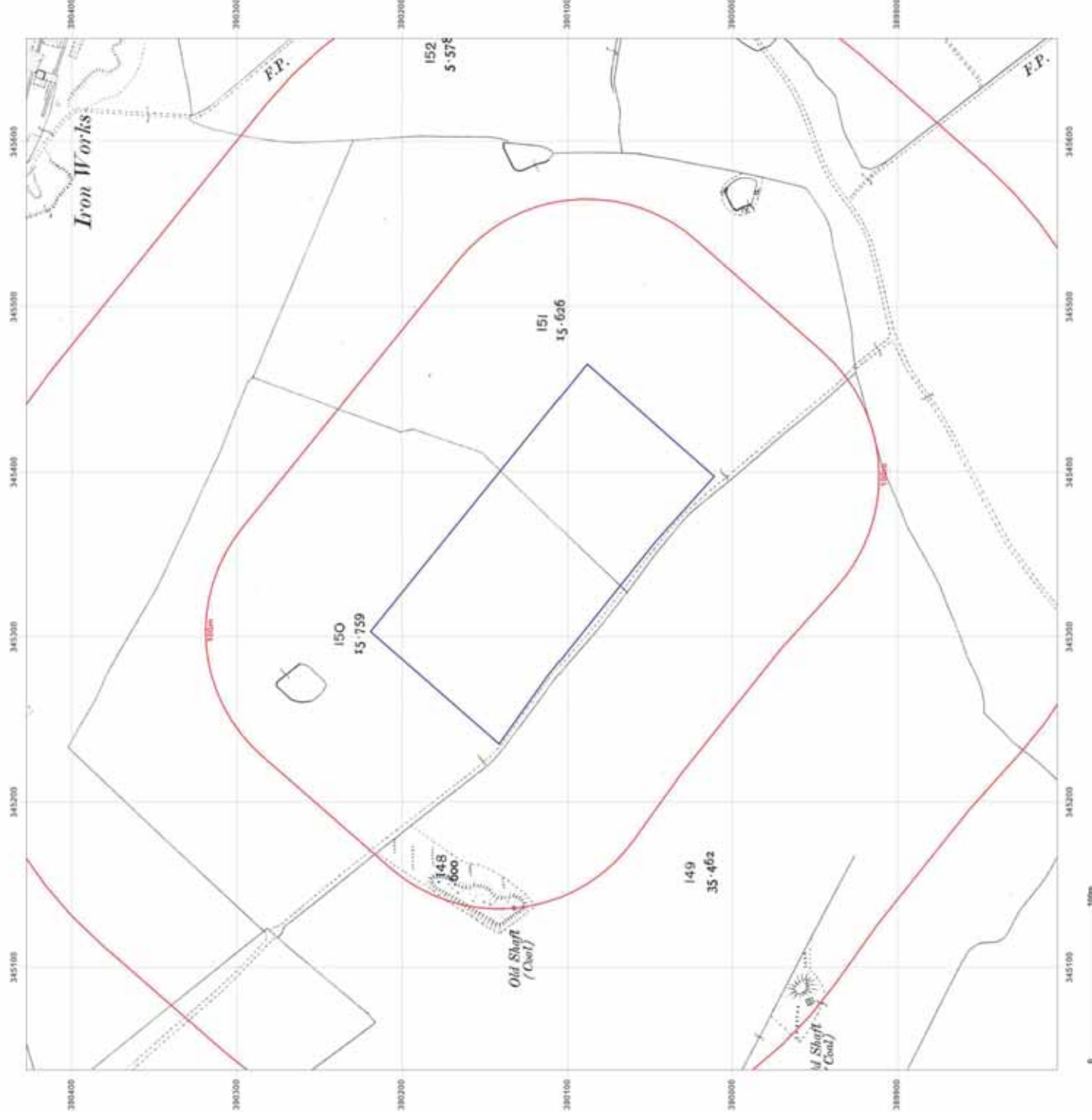


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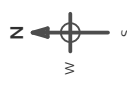
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Grid Ref: 345350, 390115

Map Name: County Series

Map date: 1927

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1927
Revised 1927
Edition N/A
Copyright N/A
Levelled N/A



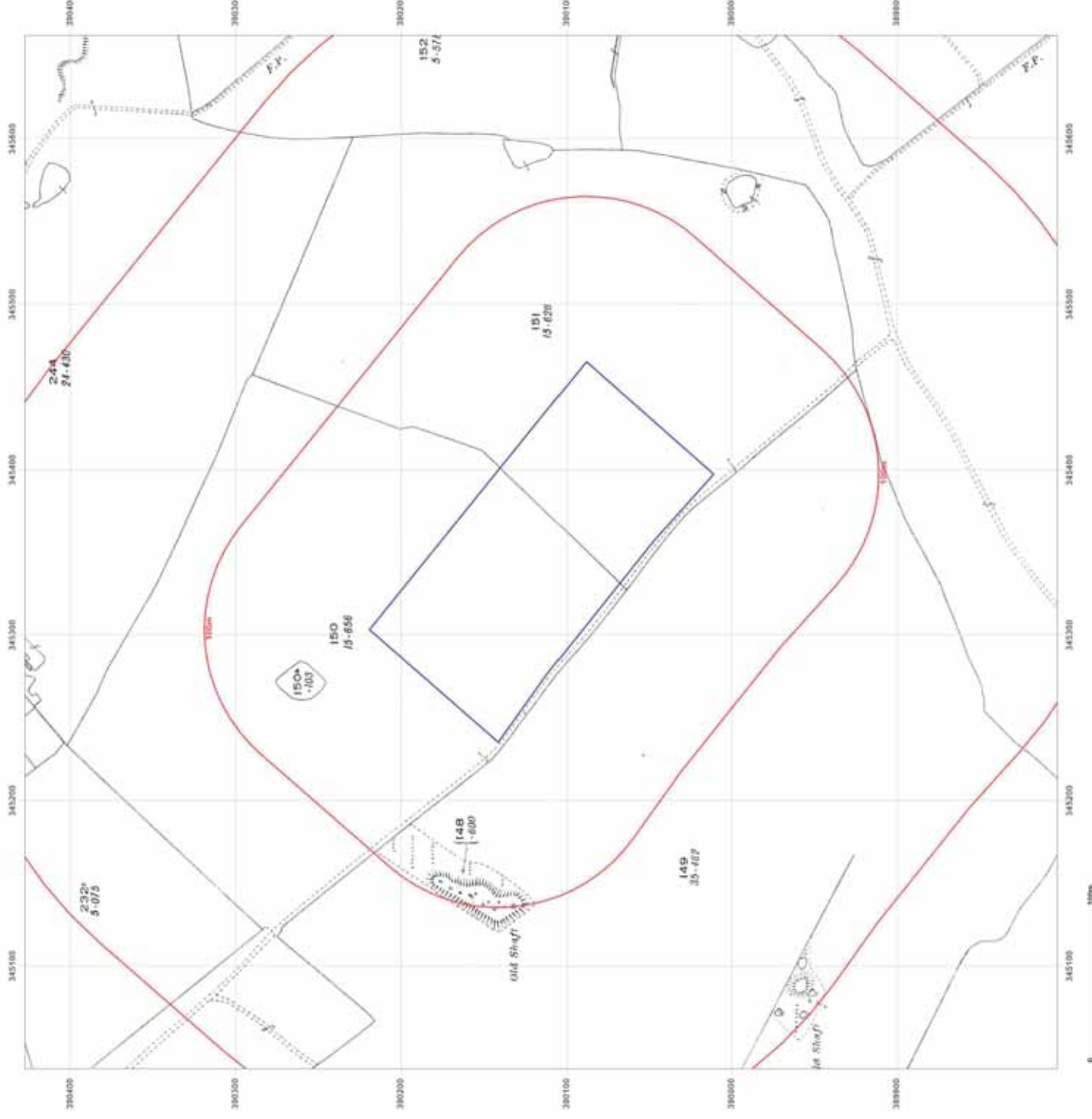
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Client Ref: 9333G--Huyton
Report Ref: GS-7735271
Grid Ref: 345350, 390115

Map Name: National Grid

Map date: 1956

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1956
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Edition N/A
Copyright N/A
Levelled 1926

Surveyed 1956
Revised 1956
Edition N/A
Copyright N/A
Levelled 1926



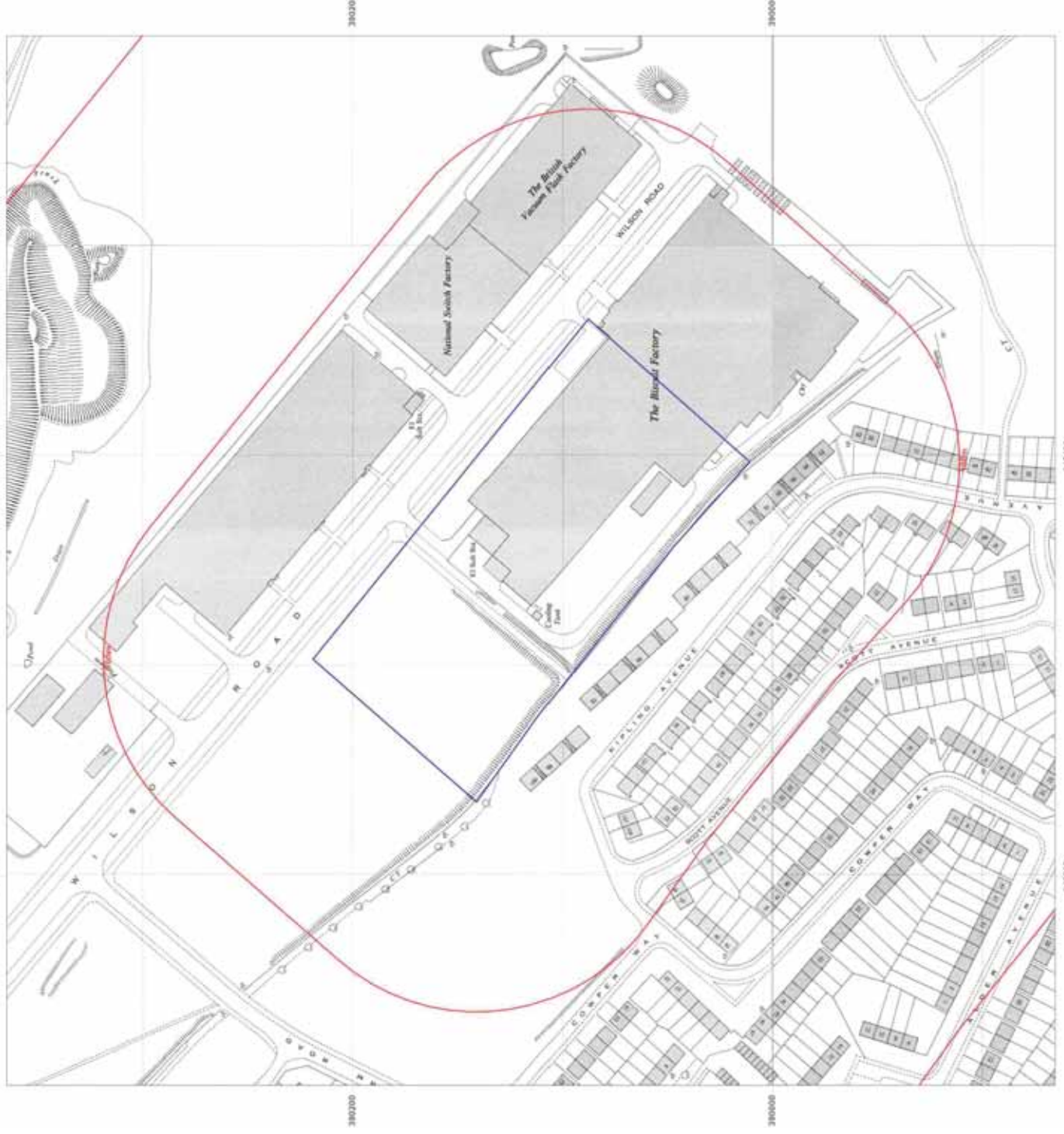
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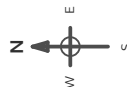
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Map Name: National Grid

Map date: 1956

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1956
Revised 1956
Edition N/A
Copyright 1957
Levelled 1926

Surveyed 1956
Revised 1956
Edition 1957
Copyright N/A
Levelled 1926

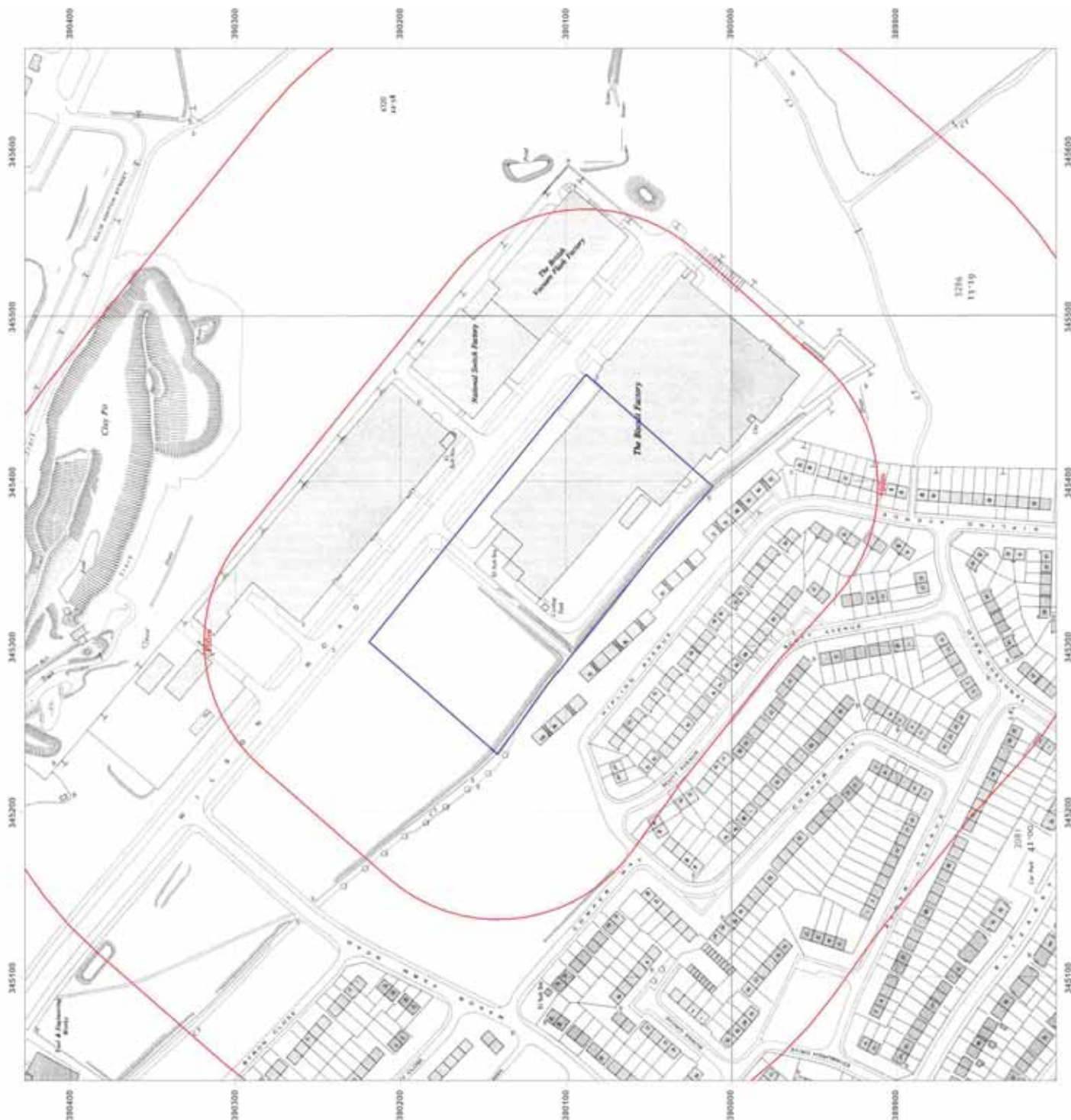


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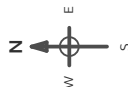
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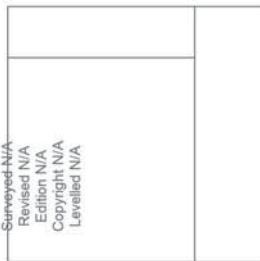
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Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A



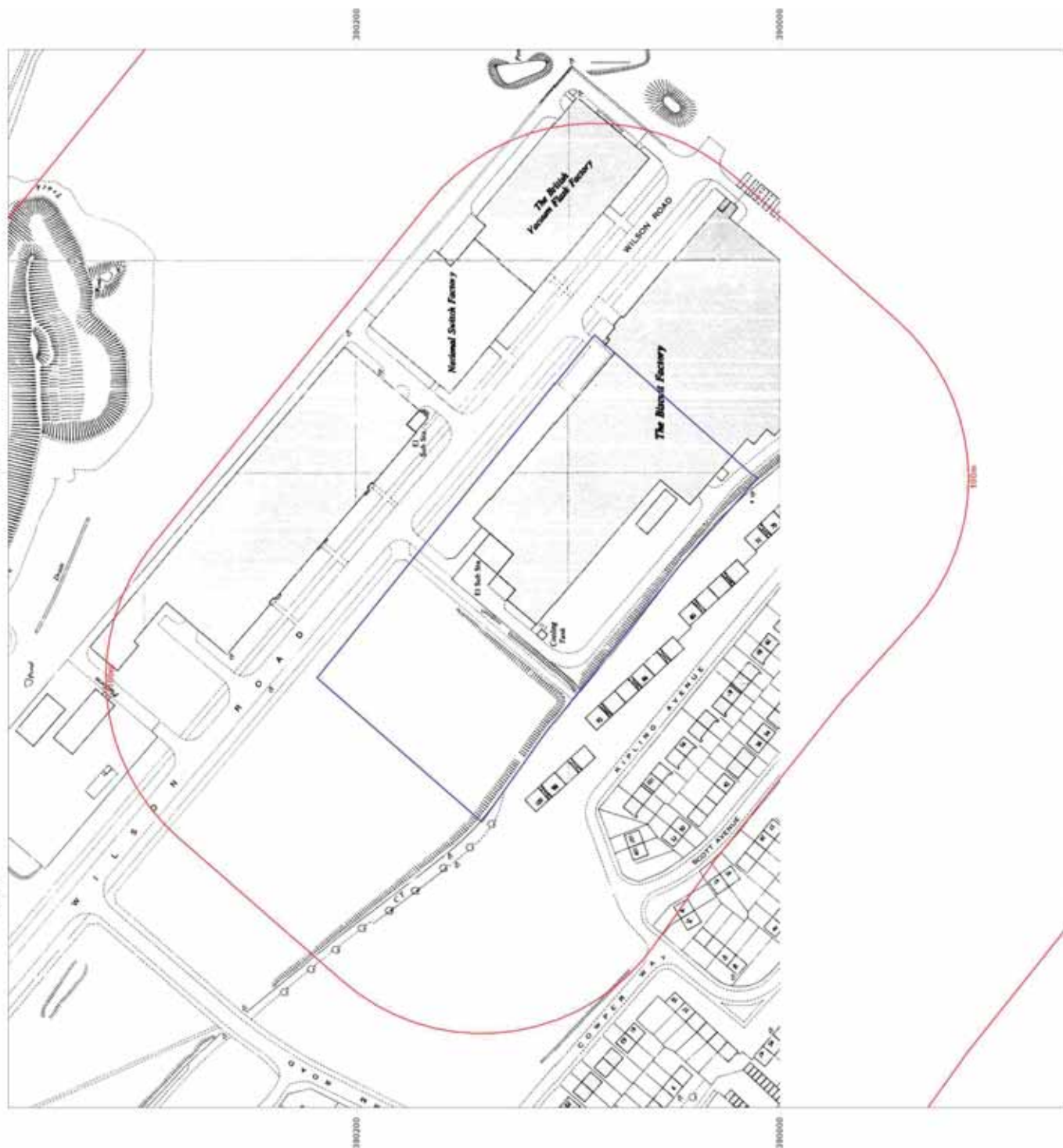
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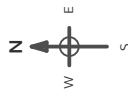
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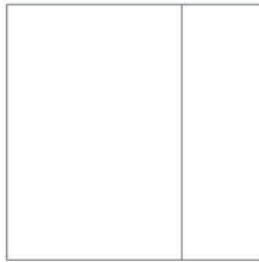
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Surveyed 1959
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Edition 1960
Copyright 1960
Levelled 1957

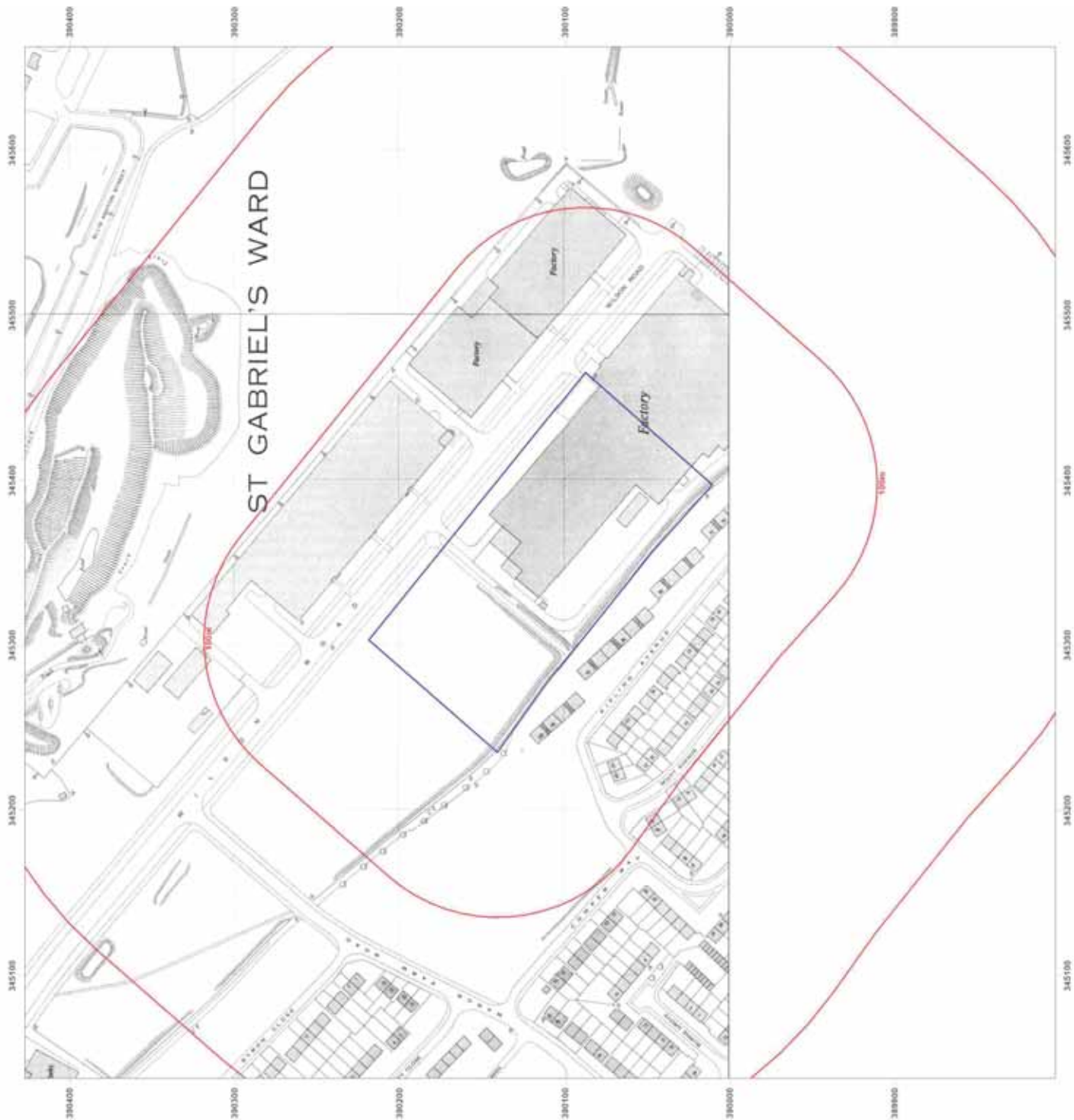


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Grid Ref: 345350, 390115

Map Name: National Grid

Map date: 1963-1968

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1956
Revised 1967
Edition N/A
Copyright 1968
Levelled 1957

Surveyed 1956 Revised 1963 Edition N/A Copyright 1964 Levelled 1957	Surveyed 1956 Revised 1962 Edition N/A Copyright 1963 Levelled 1957
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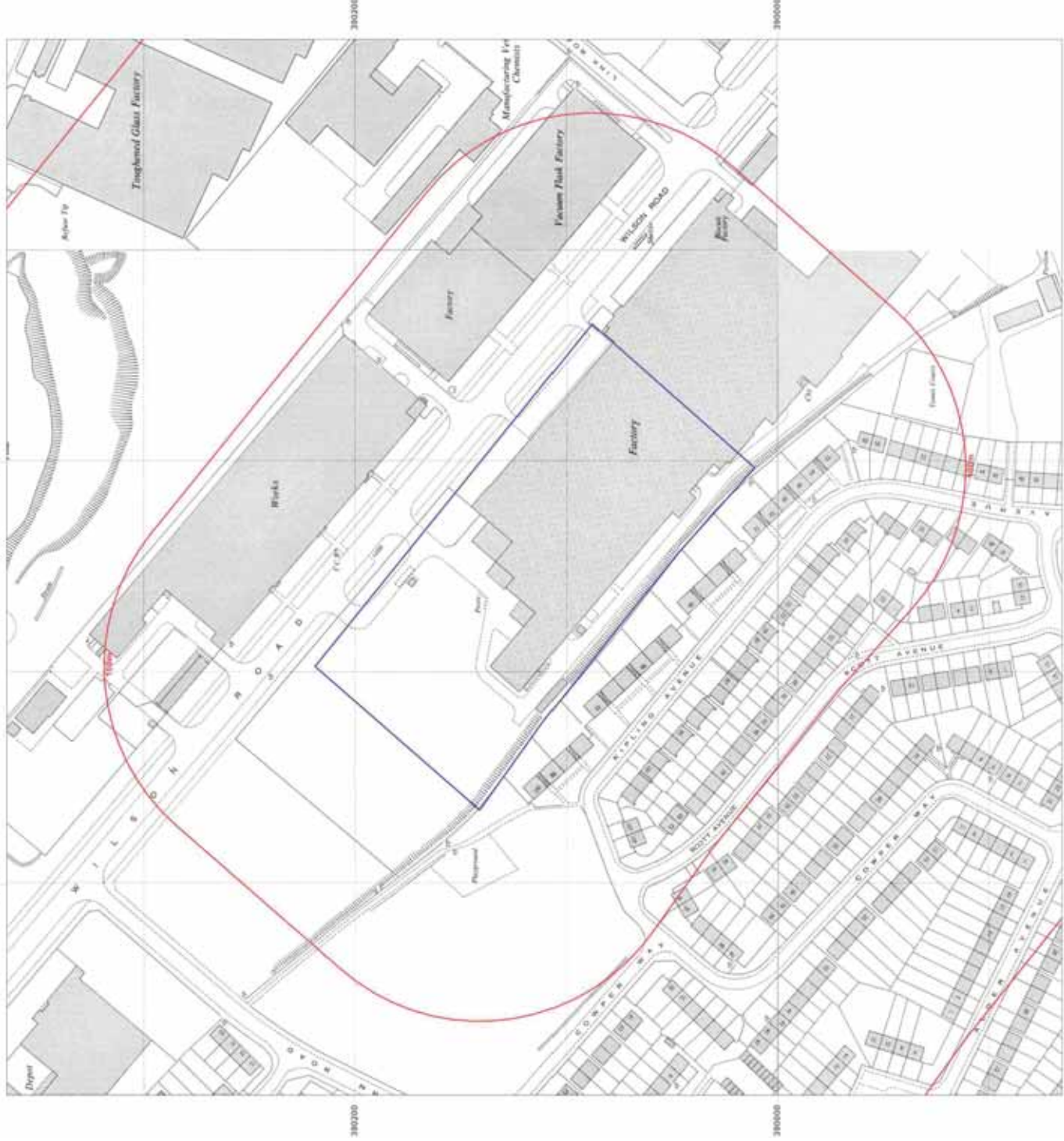


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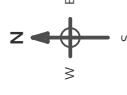
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Map Name: National Grid

Map date: 1969

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1989
Revised 1989
Edition N/A
Copyright 1970
Levelled 1960

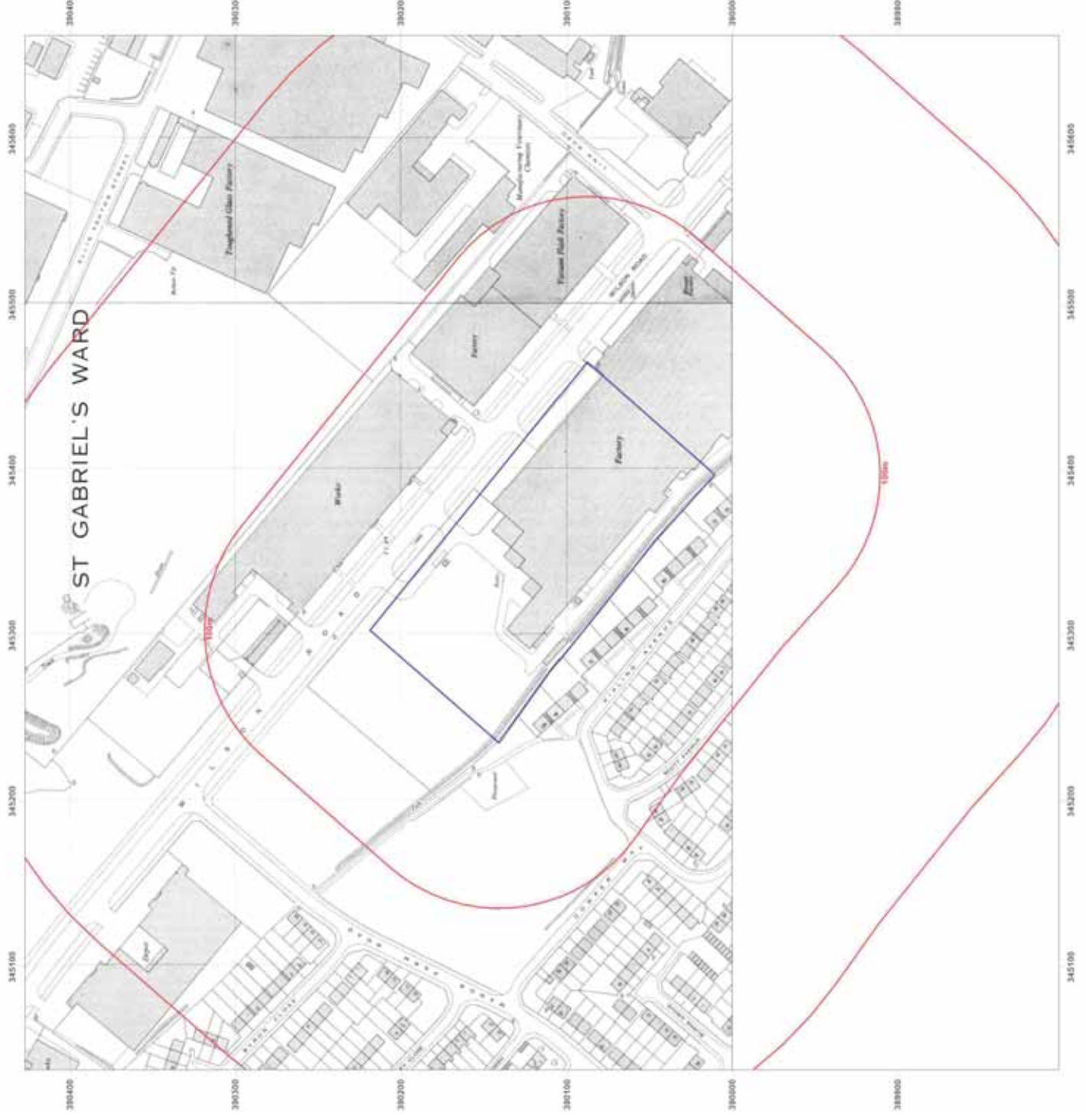


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Report Ref: GS-7735271
Grid Ref: 345350, 390115

Map Name: National Grid

Map date: 1970-1975

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

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Revised N/A
Edition N/A
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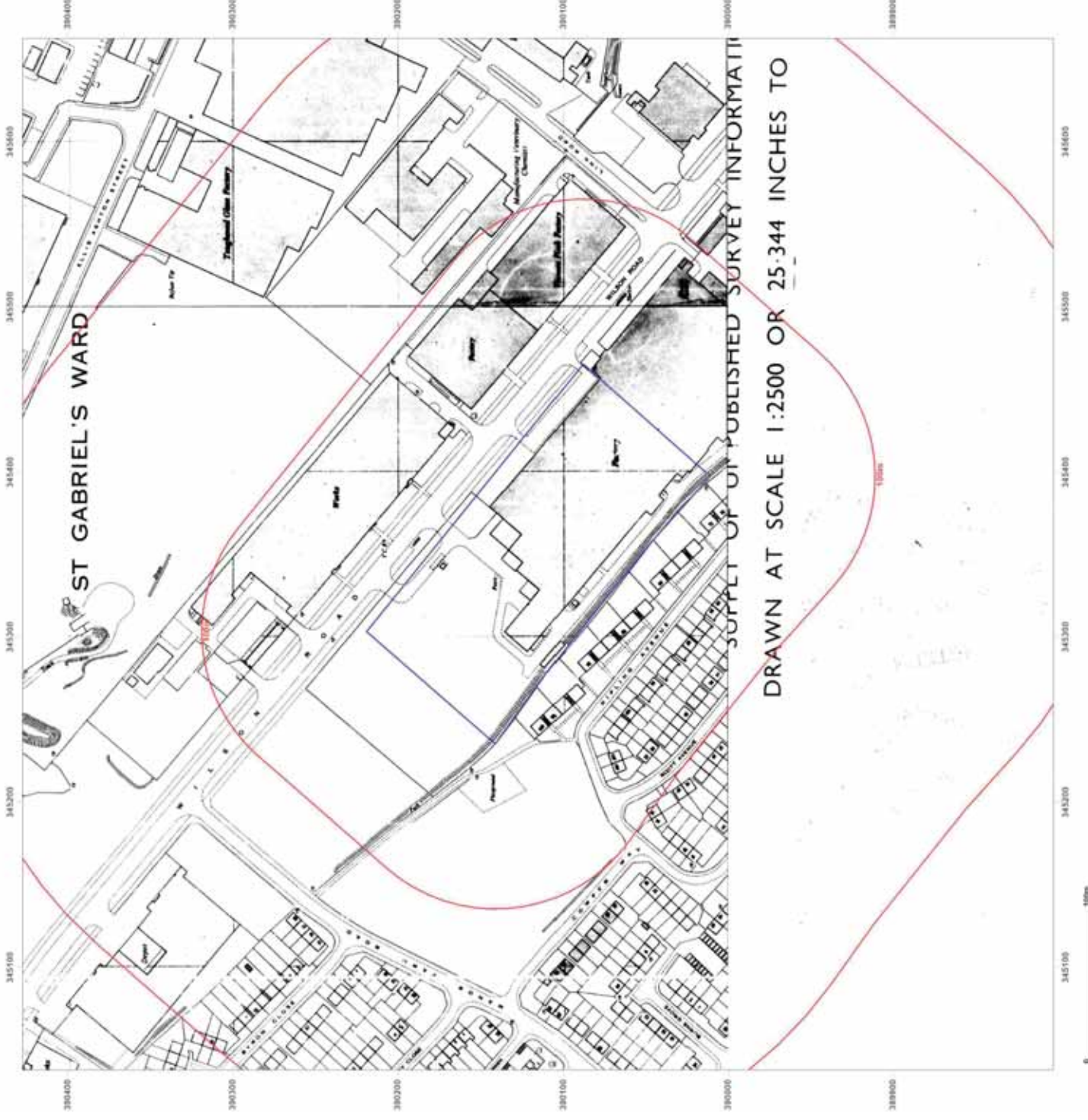


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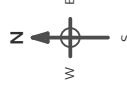
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Map Name: National Grid

Map date: 1976

Scale: 1:2,500

Printed at: 1:2,500



	Surveyed N/A Revised N/A Edition N/A Copyright N/A Levelled N/A
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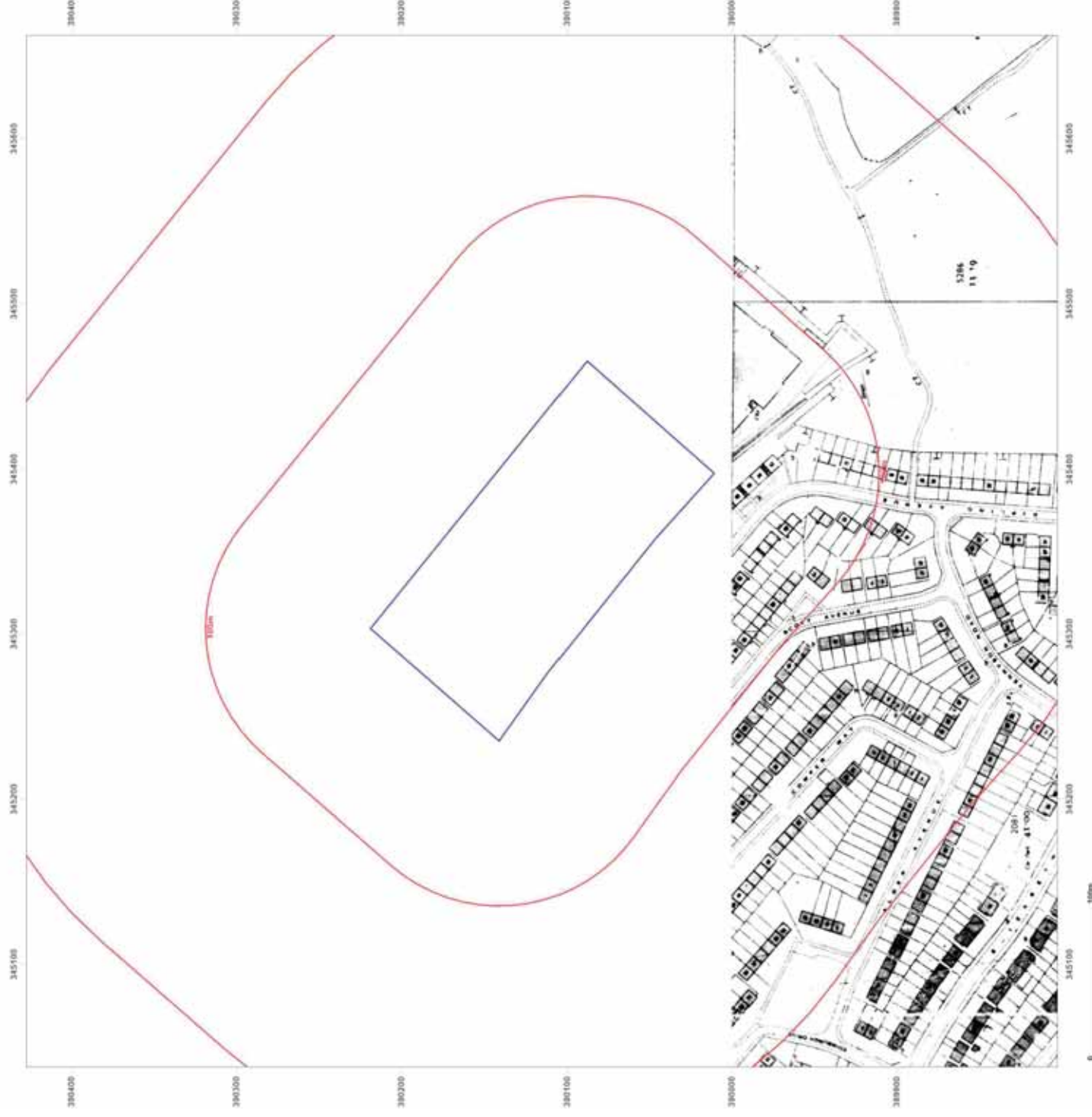


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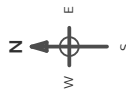
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Report Ref: GS-7735271
Grid Ref: 345350, 390115

Map Name: National Grid

Map date: 1975-1977

Scale: 1:1,250

Printed at: 1:2,000



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Levelled 1957

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

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Revised N/A
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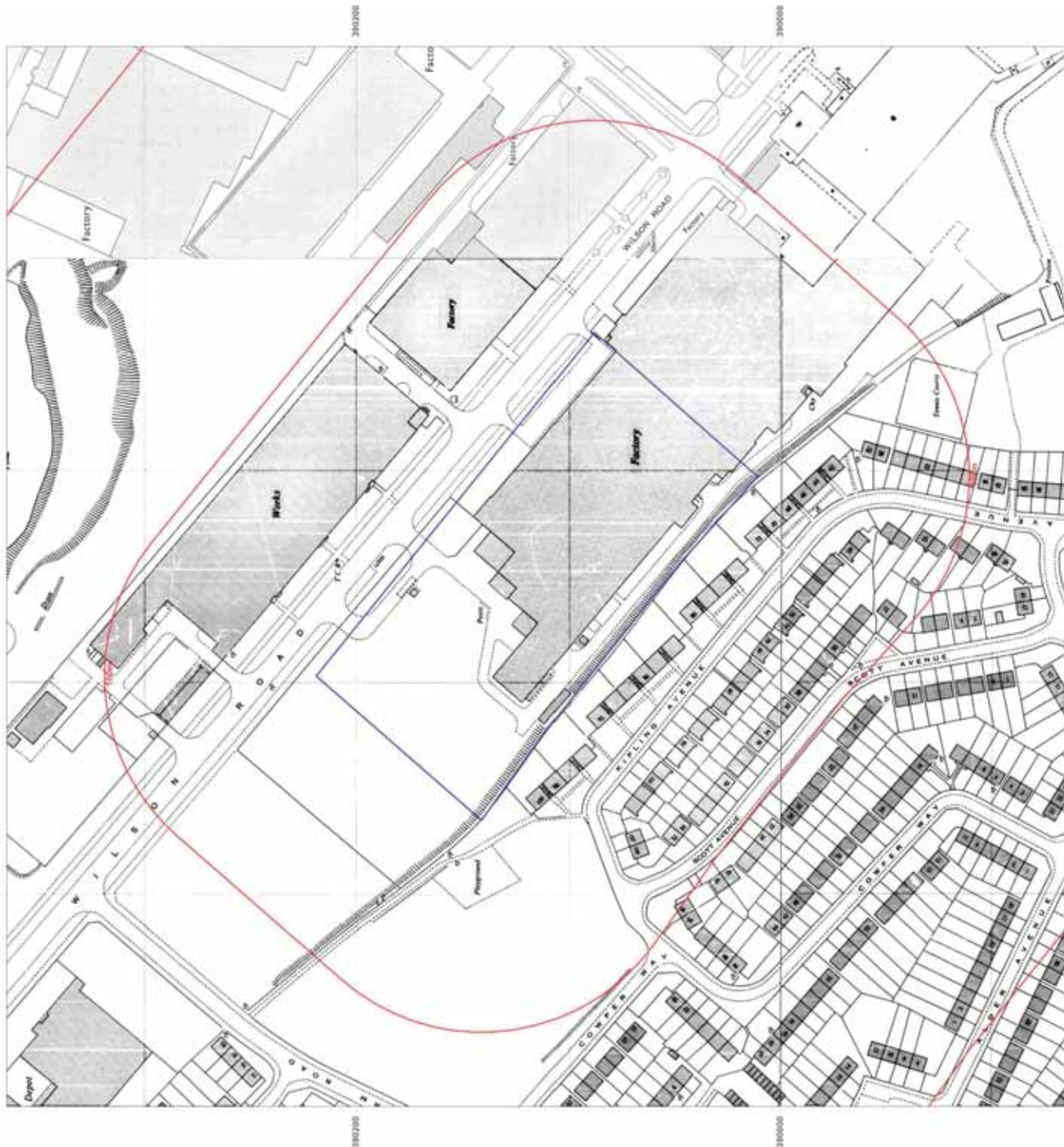


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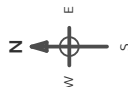
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Grid Ref: 345350, 390115

Map Name: National Grid

Map date: 1980

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A
Revised N/A
Edition N/A
Copyright 1980
Levelled 1957



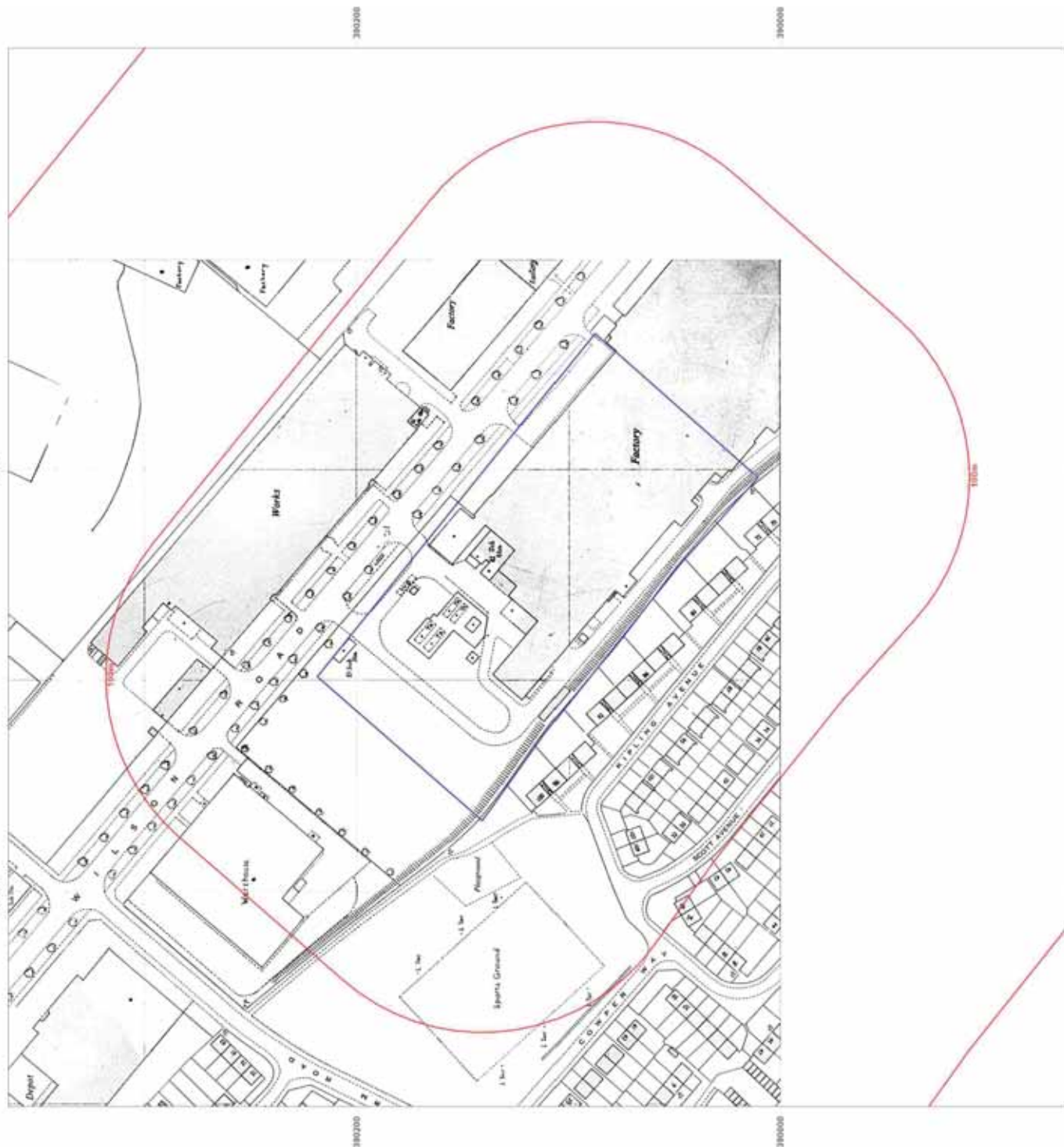
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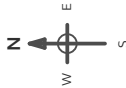
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Map date: 1980-1984

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A
Revised N/A
Edition N/A
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Levelled 1957

Surveyed 1957
Revised 1984
Edition N/A
Copyright 1984
Levelled 1957

Surveyed 1956
Revised 1981
Edition N/A
Copyright 1982
Levelled 1956



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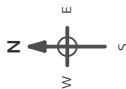
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Report Ref: GS-7735271
Grid Ref: 345350, 390115

Map Name: National Grid

Map date: 1993

Scale: 1:1,250

Printed at: 1:2,000



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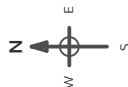
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Grid Ref: 345350, 390115

Map Name: National Grid

Map date: 1994

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A



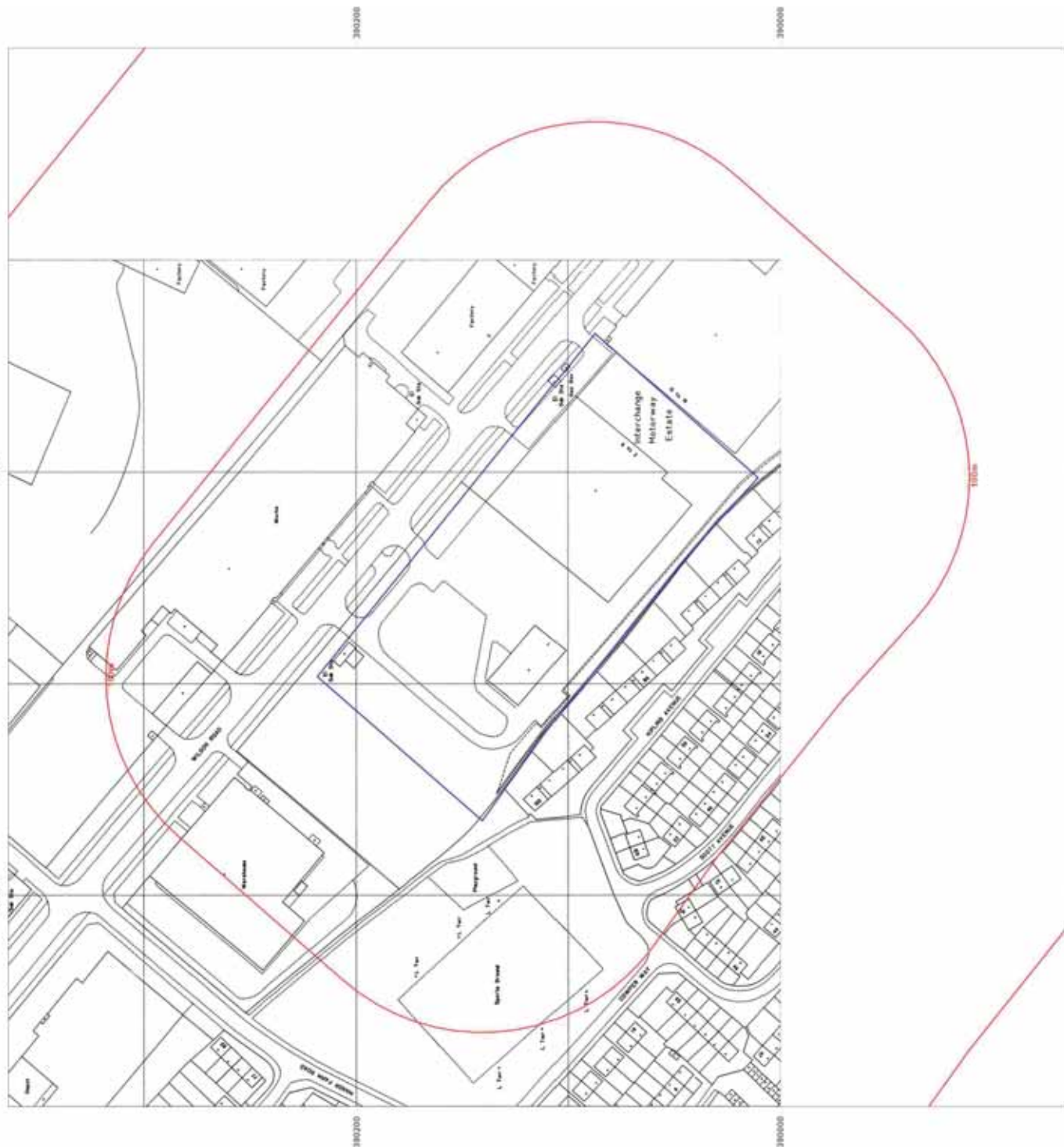
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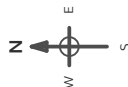
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Report Ref: GS-7735271
Grid Ref: 345350, 390115

Map Name: National Grid

Map date: 1994

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1994
Revised 1994
Edition N/A
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Site Details:

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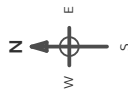
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Report Ref: GS-7735271
Grid Ref: 345350, 390115

Map Name: National Grid

Map date: 1993-1994

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A
Revised N/A
Edition N/A
Copyright 1994
Levelled N/A

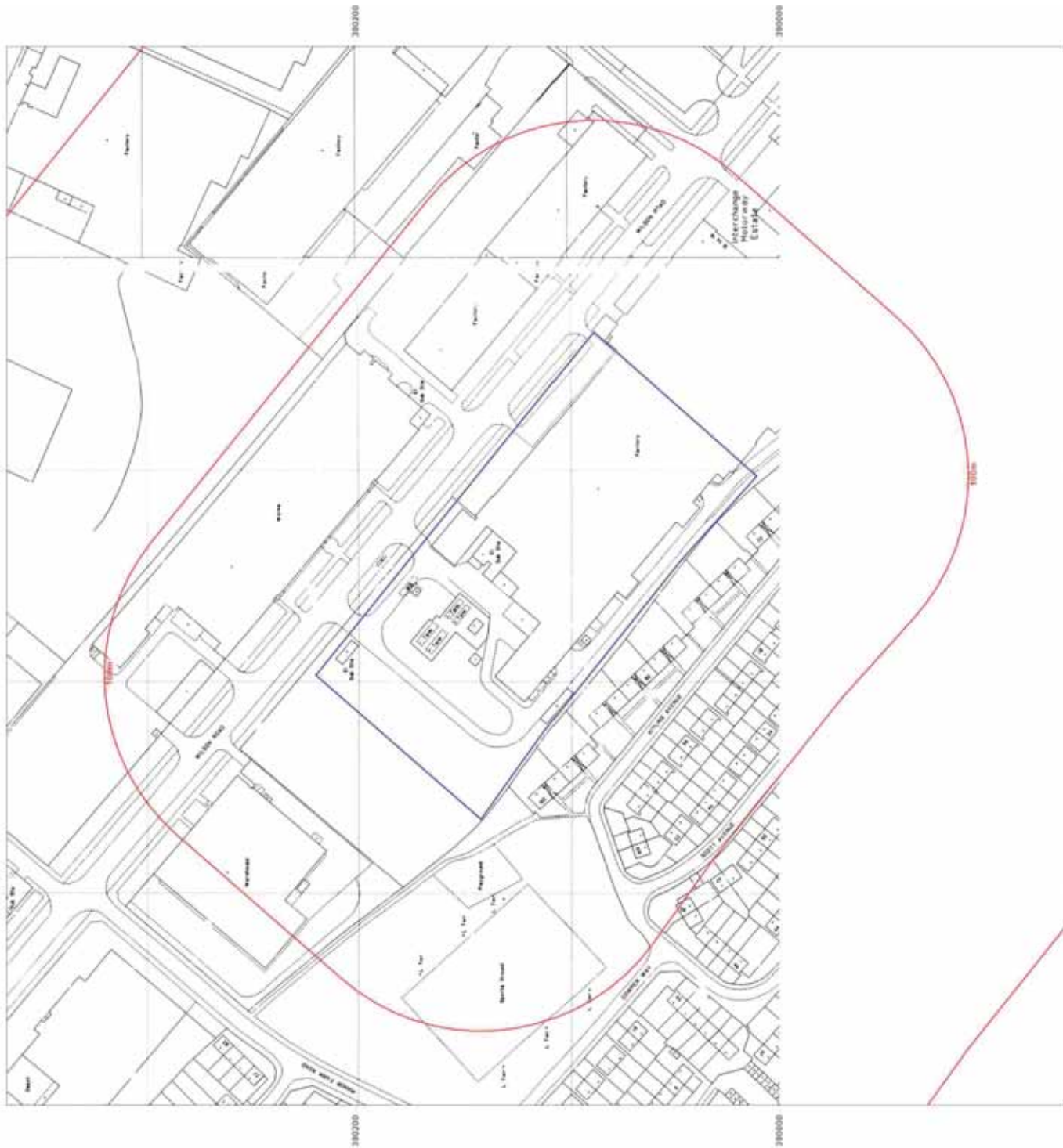


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Site Details:

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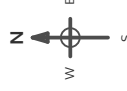
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Map Name: National Grid

Map date: 1994

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Printed at: 1:2,000



Surveyed N/A
Revised N/A
Edition N/A
Copyright 1994
Levelled N/A



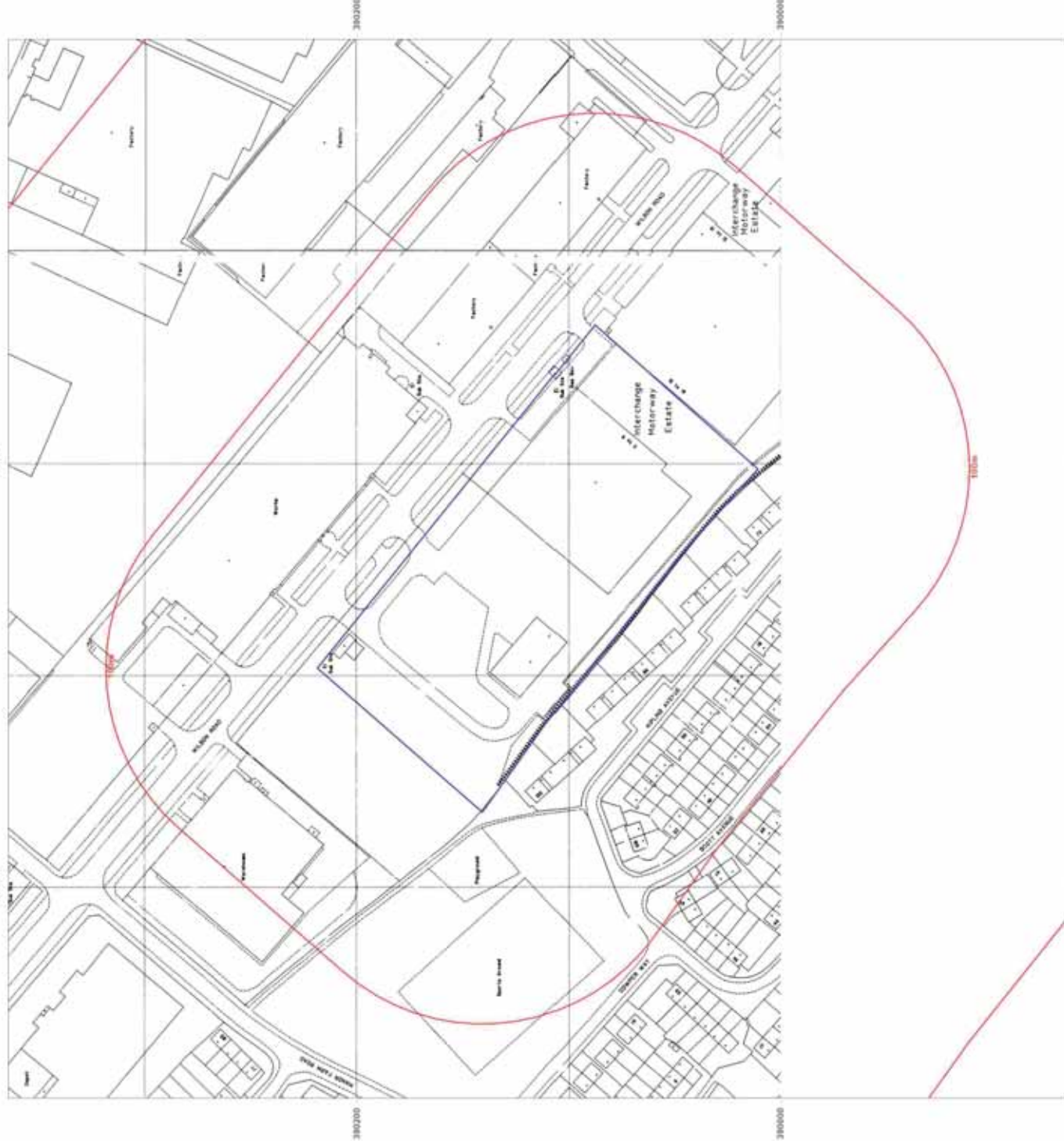
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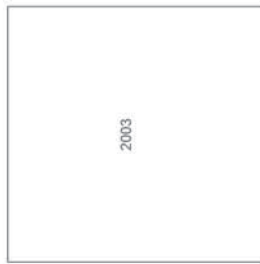
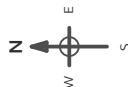
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Grid Ref: 345350, 390115

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250

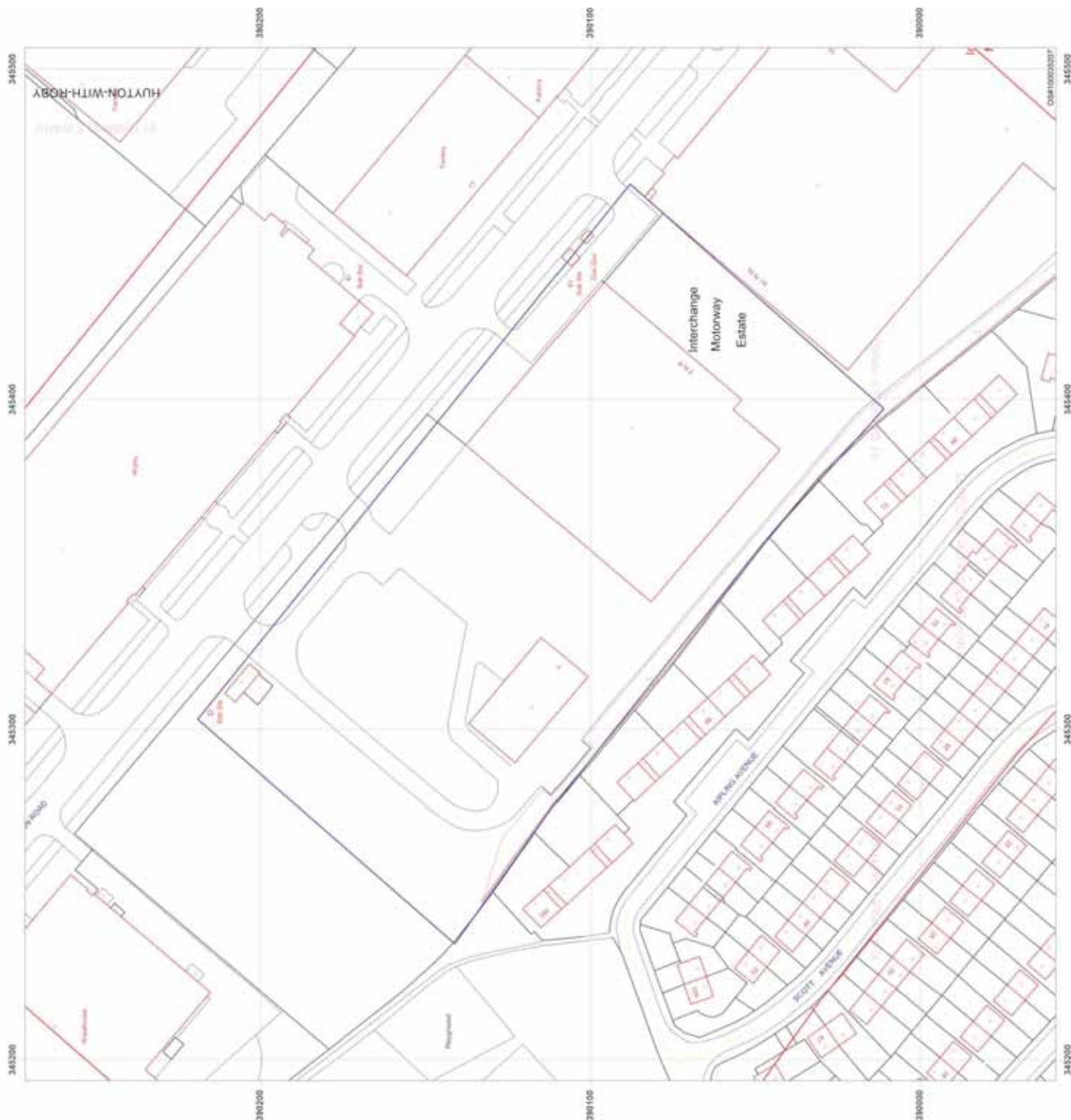


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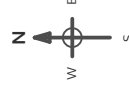
Client Ref: 9333G--Huyton
Report Ref: GS-7735271
Grid Ref: 345350, 390115

Map Name: County Series

Map date: 1849-1850

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1847
Revised N/A
Edition 1850
Copyright N/A
Levelled N/A

Surveyed 1846
Revised N/A
Edition 1849
Copyright N/A
Levelled N/A

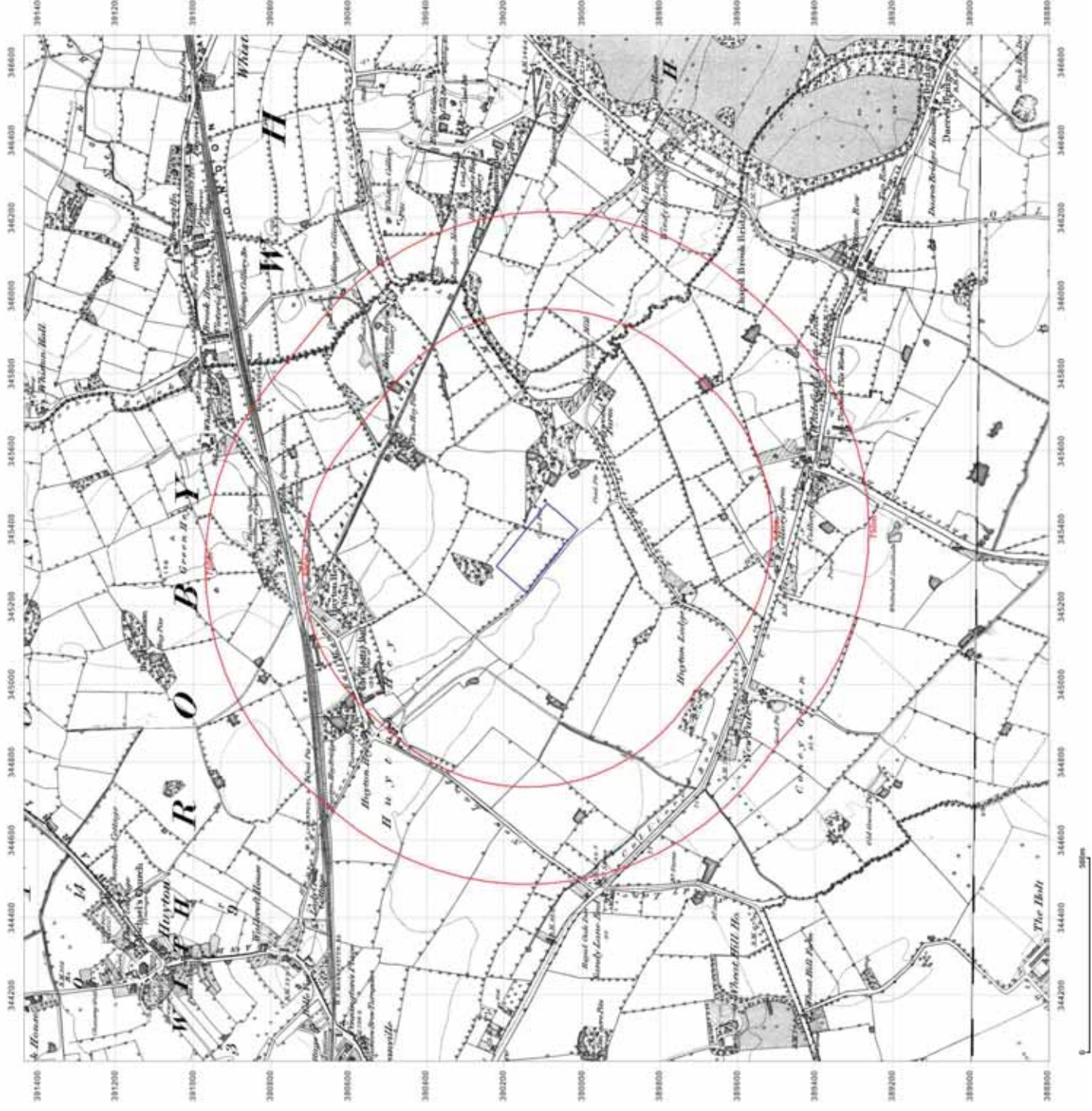


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Site Details:

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HUYTON, L36 6JG

Client Ref: 9333G--Huyton
Report Ref: GS-7735271
Grid Ref: 345350, 390115

Map Name: County Series

Map date: 1891

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1891 Revised 1891 Edition N/A Copyright N/A Levelled N/A		Surveyed 1891 Revised 1891 Edition N/A Copyright N/A Levelled N/A
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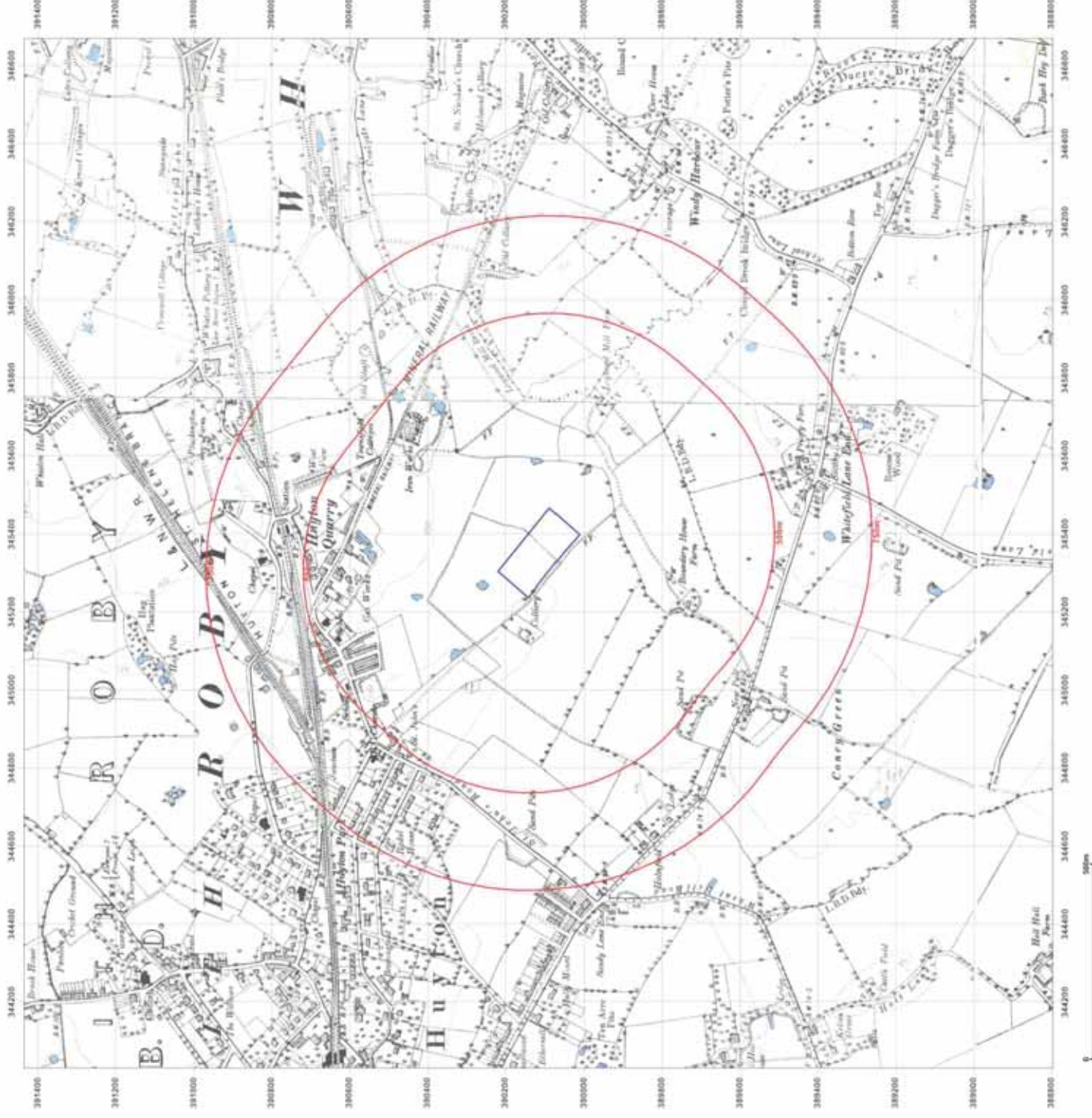


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Site Details:

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Client Ref: 9333G--Huyton
Report Ref: GS-7735271
Grid Ref: 345350, 390115

Map Name: County Series

Map date: 1904-1906

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1891
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1891
Revised 1905
Edition N/A
Copyright N/A
Levelled N/A

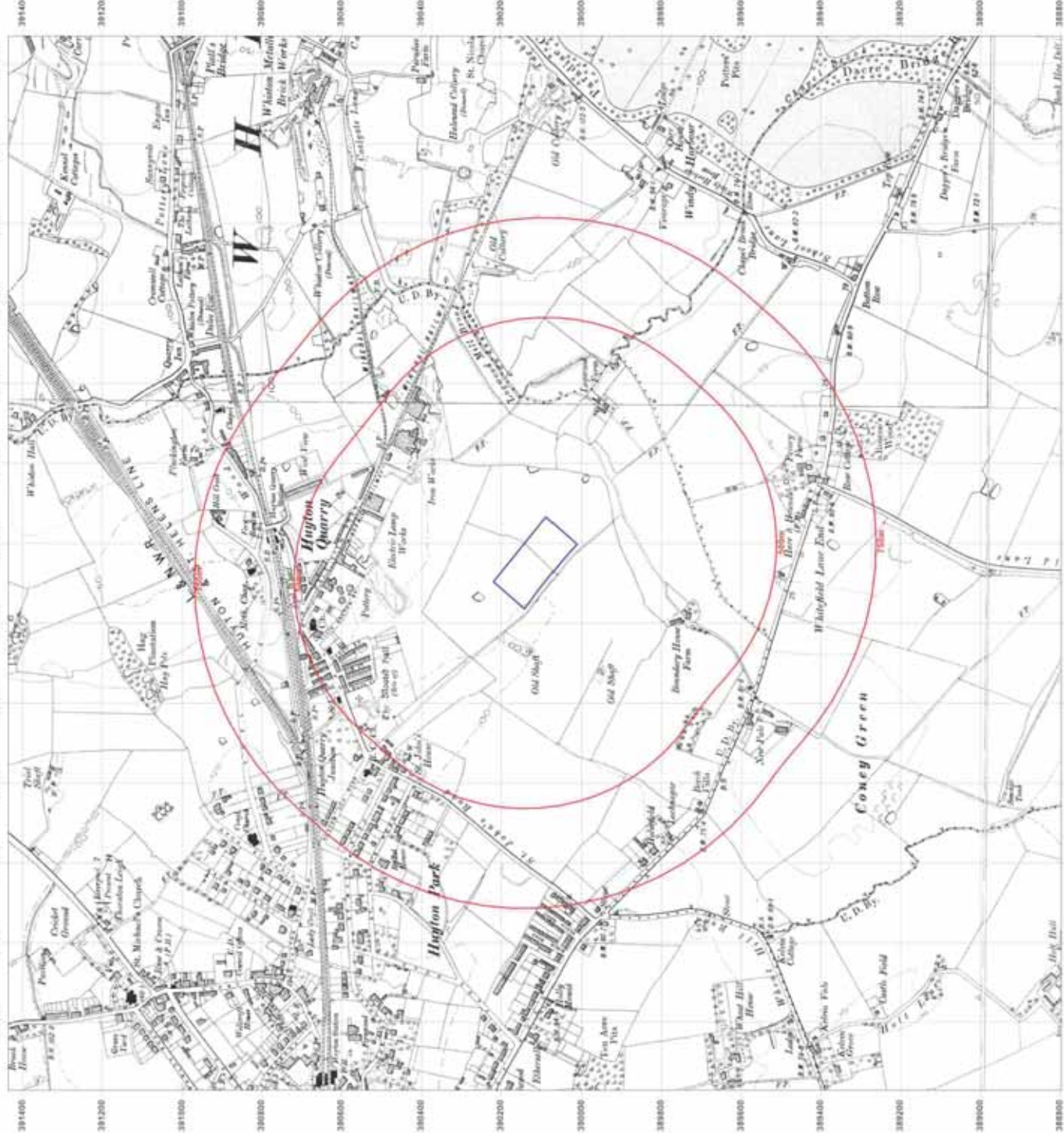


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Site Details:

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ESTATE, WILSON ROAD,
HUYTON, L36 6JG

Client Ref: 9333G--Huyton
Report Ref: GS-7735271
Grid Ref: 345350, 390115

Map Name: County Series

Map date: 1925

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1848 Revised 1925 Edition N/A Copyright N/A Levelled N/A	Surveyed 1846 Revised 1925 Edition N/A Copyright N/A Levelled N/A
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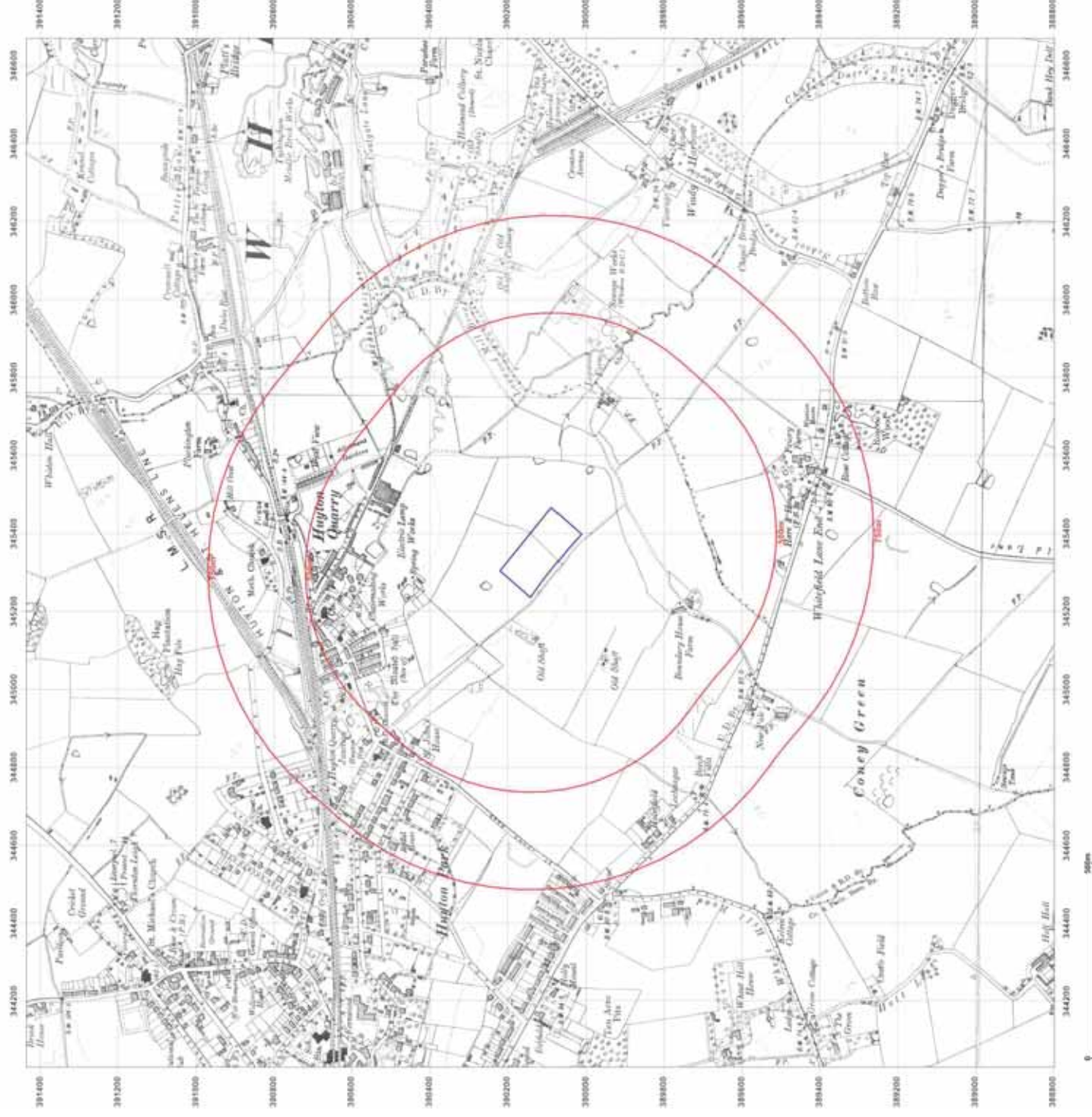


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Site Details:

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HUYTON, L36 6JG

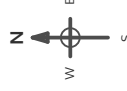
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Report Ref: GS-7735271
Grid Ref: 345350, 390115

Map Name: County Series

Map date: 1925

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1848
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Edition N/A
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Levelled N/A

Surveyed 1846
Revised 1925
Edition N/A
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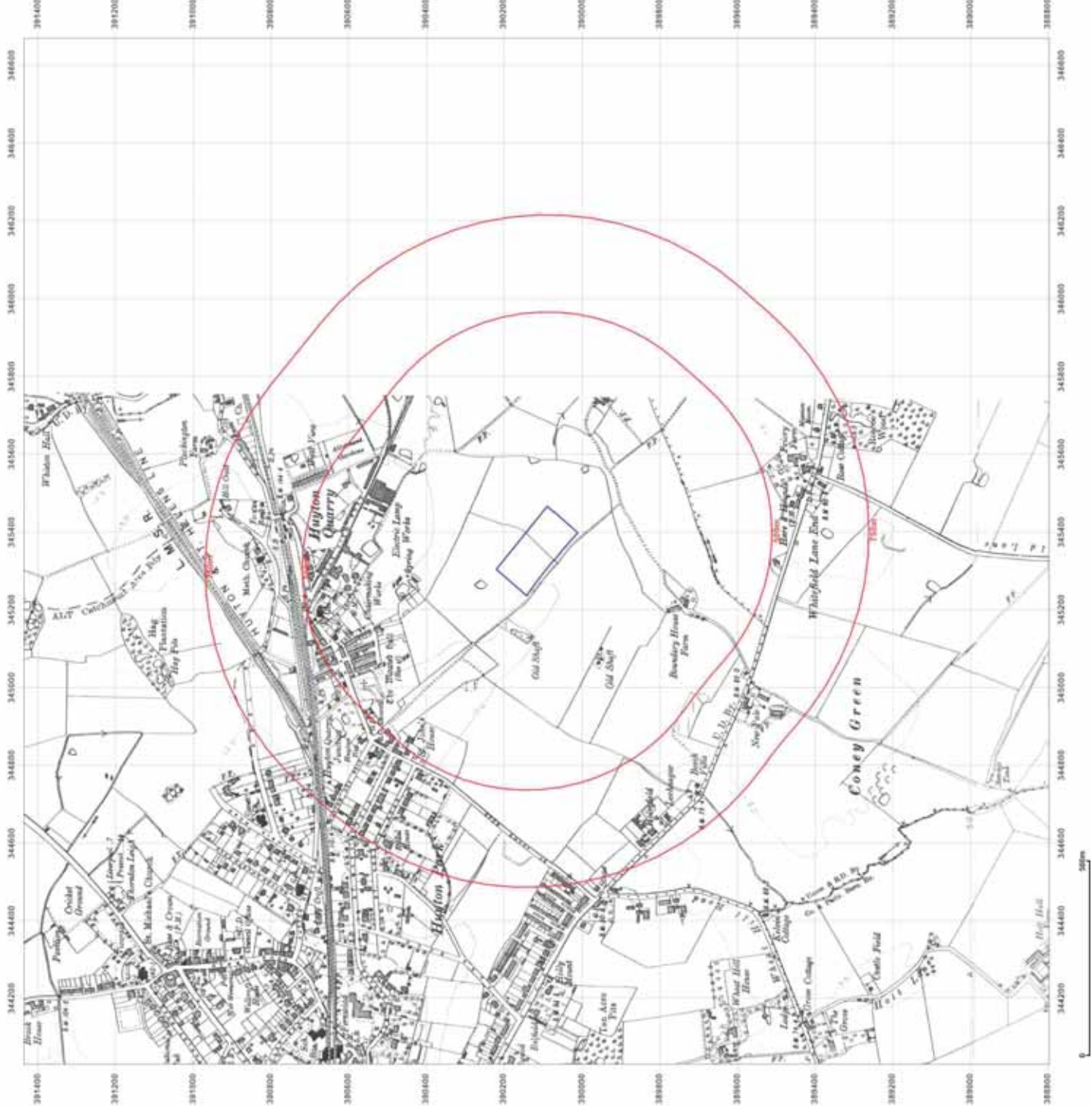


Figure legends available at: www.groundsurre.com/sites/default/files/groundsurre_legend.pdf

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Site Details:

INTERCHANGE MOTORWAY
ESTATE, WILSON ROAD,
HUYTON, L36 6JG

Client Ref: 9333G--Huyton
Report Ref: GS-7735271
Grid Ref: 345350, 390115

Map Name: Provisional

Map date: 1955-1956

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1954
Revised 1955
Edition N/A
Copyright 1956
Levelled N/A

Surveyed 1947
Revised 1955
Edition 1956
Copyright N/A
Levelled N/A

Surveyed 1954
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Copyright 1956
Levelled N/A

Surveyed N/A
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Levelled N/A

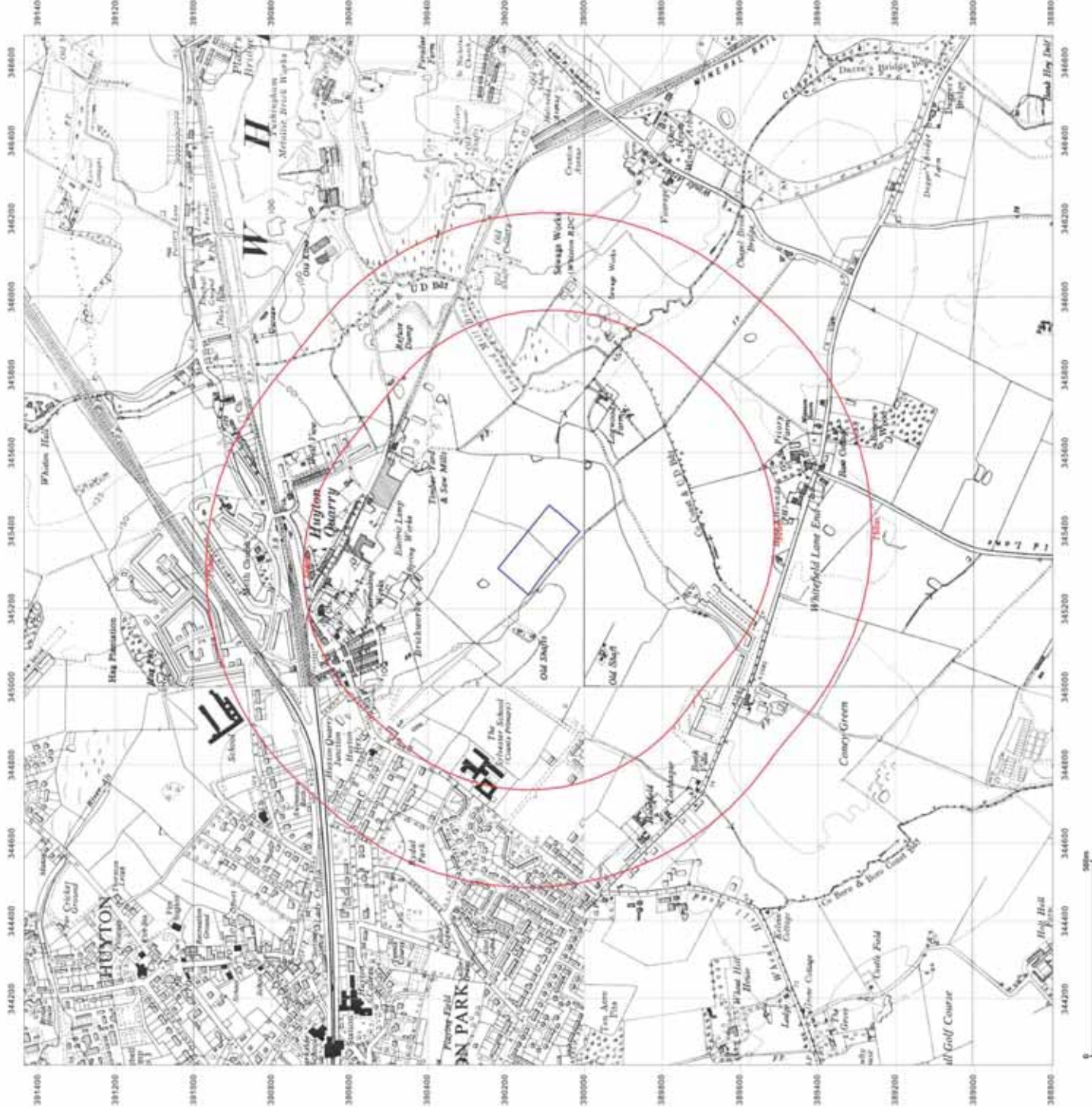


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Production date: 12 April 2021

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Site Details:

INTERCHANGE MOTORWAY
ESTATE, WILSON ROAD,
HUYTON, L36 6JG

Client Ref: 9333G--Huyton
Report Ref: GS-7735271
Grid Ref: 345350, 390115

Map Name: Provisional

Map date: 1965-1967

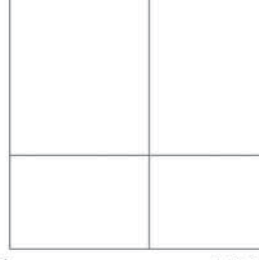
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Surveyed 1965
Revised 1965
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1966
Revised 1966
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1967
Revised 1967
Edition N/A
Copyright N/A
Levelled N/A

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Revised 1967
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Copyright N/A
Levelled N/A

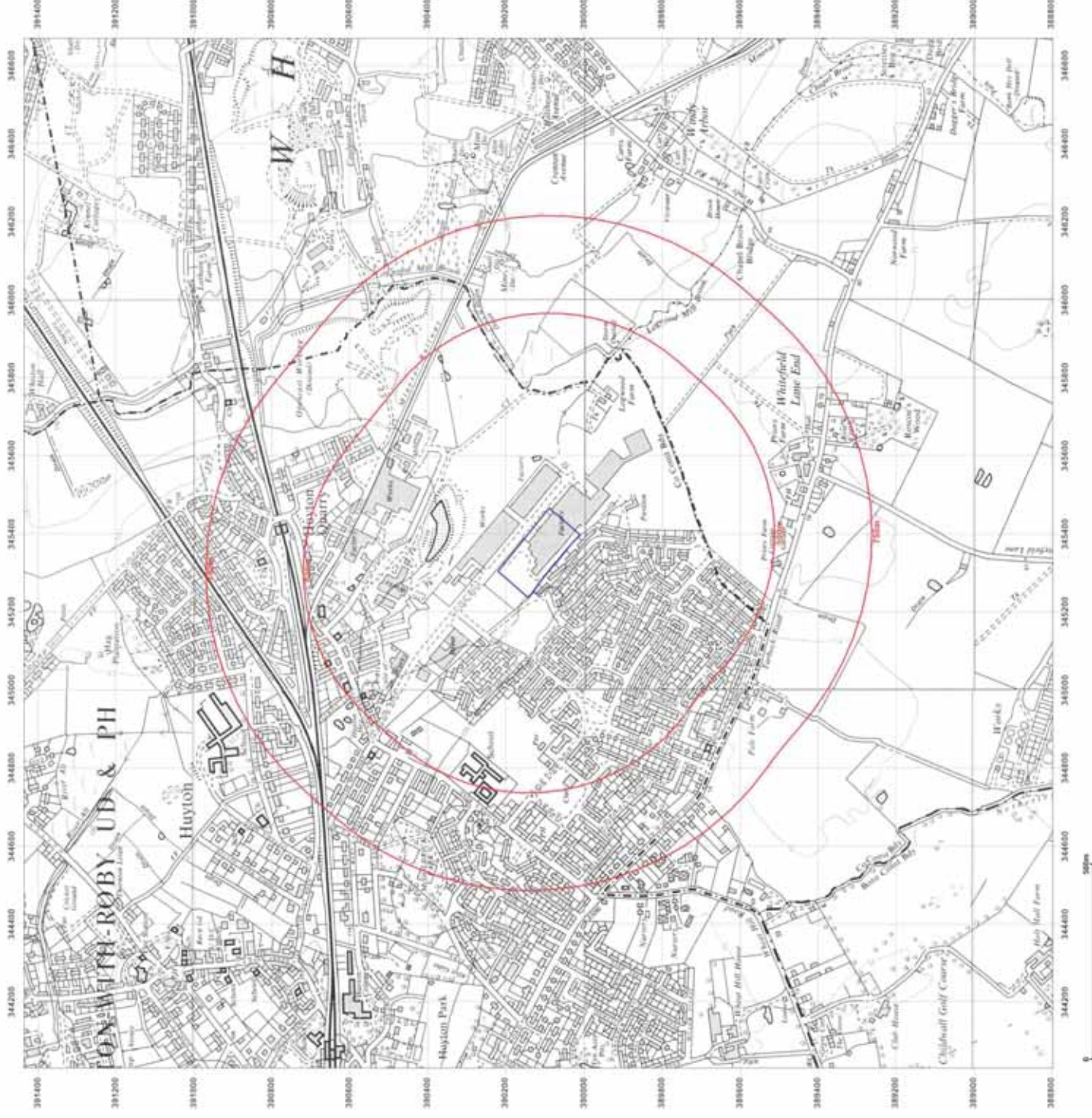


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Site Details:

INTERCHANGE MOTORWAY
ESTATE, WILSON ROAD,
HUYTON, L36 6JG

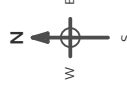
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Report Ref: GS-7735271
Grid Ref: 345350, 390115

Map Name: National Grid

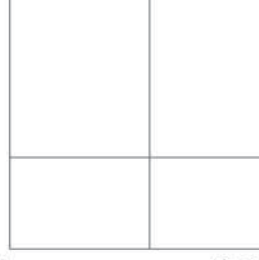
Map date: 1974-1978

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1975
Revised 1977
Edition N/A
Copyright 1978
Levelled 1955



Surveyed 1973
Revised 1974
Edition N/A
Copyright 1974
Levelled 1955

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Copyright 1977
Levelled 1964

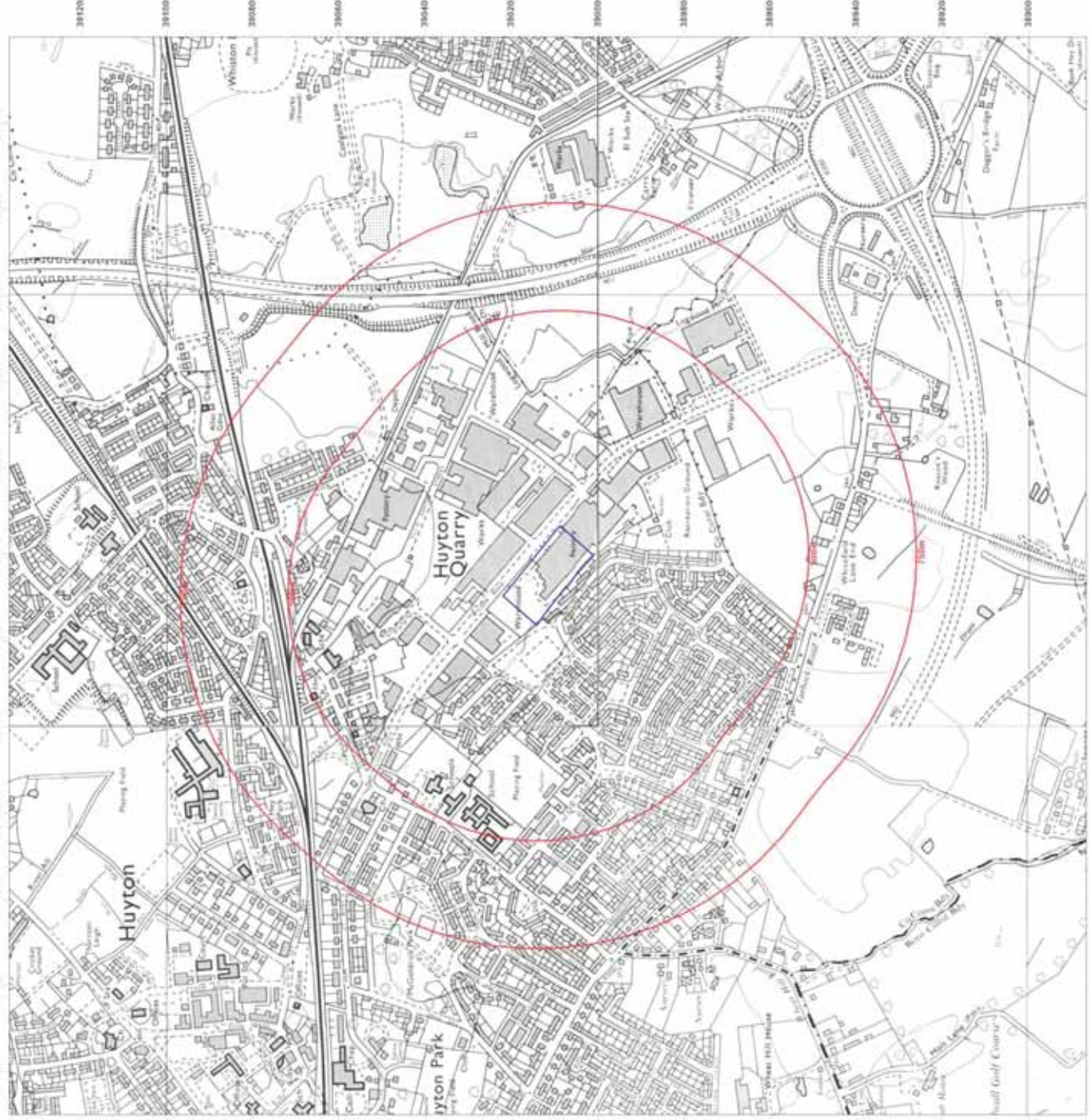


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Site Details:

INTERCHANGE MOTORWAY
ESTATE, WILSON ROAD,
HUYTON, L36 6JG

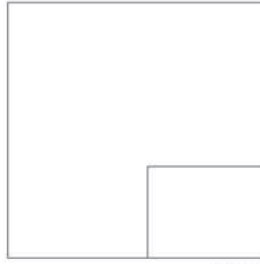
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Report Ref: GS-7735271
Grid Ref: 345350, 390115

Map Name: National Grid

Map date: 1980

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1979
Revised 1980
Edition N/A
Copyright N/A
Levelled N/A

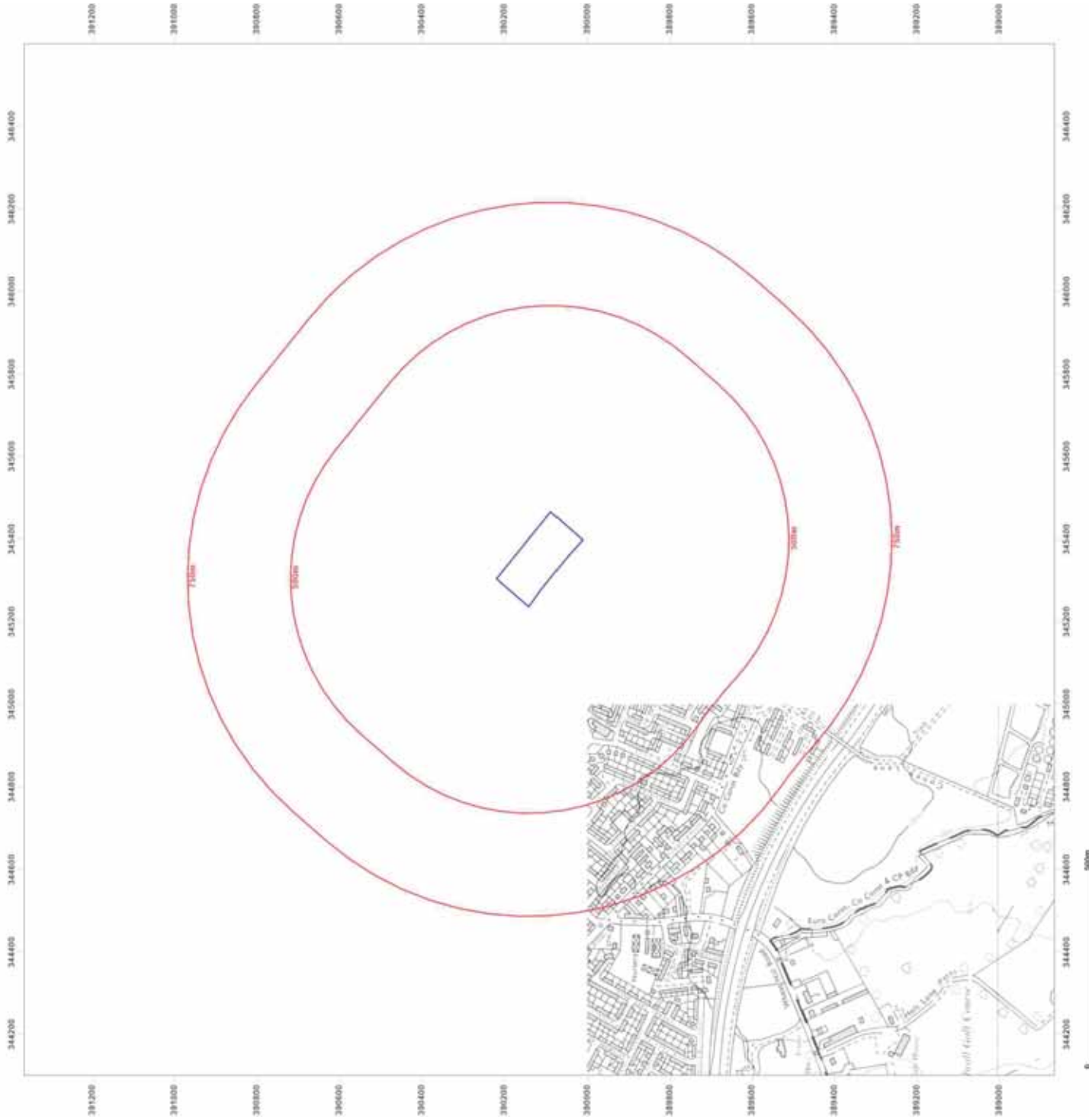


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Site Details:

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HUYTON, L36 6JG

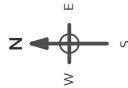
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Report Ref: GS-7735271
Grid Ref: 345350, 390115

Map Name: National Grid

Map date: 1989-1990

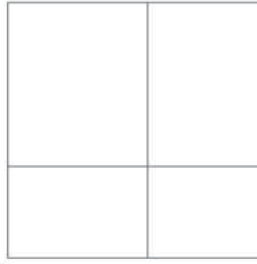
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Printed at: 1:10,000



Surveyed 1987
Revised 1989
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1989
Revised 1990
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1986
Revised 1989
Edition N/A
Copyright N/A
Levelled N/A

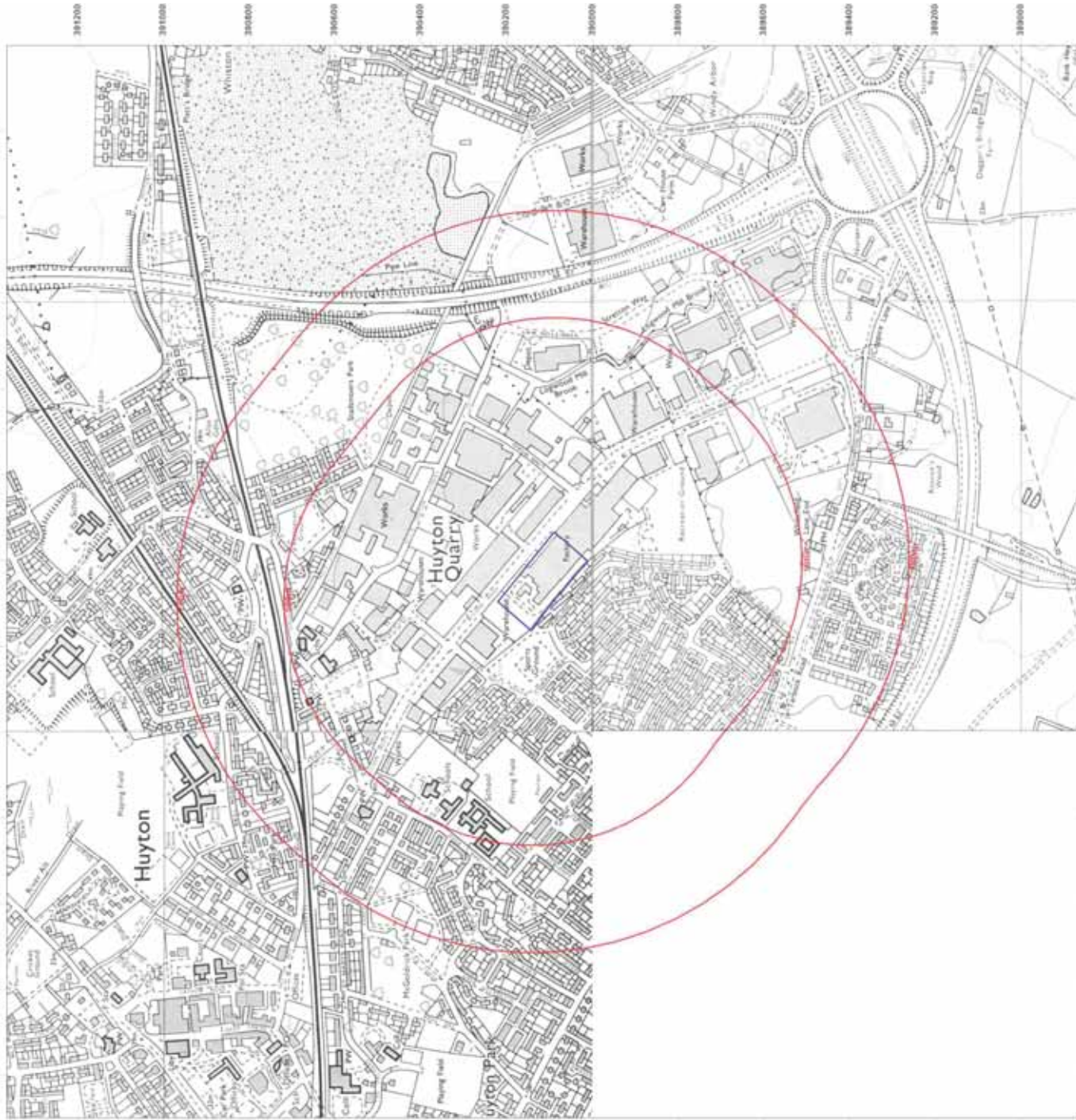


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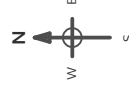
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Report Ref: GS-7735271
Grid Ref: 345350, 390115

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000

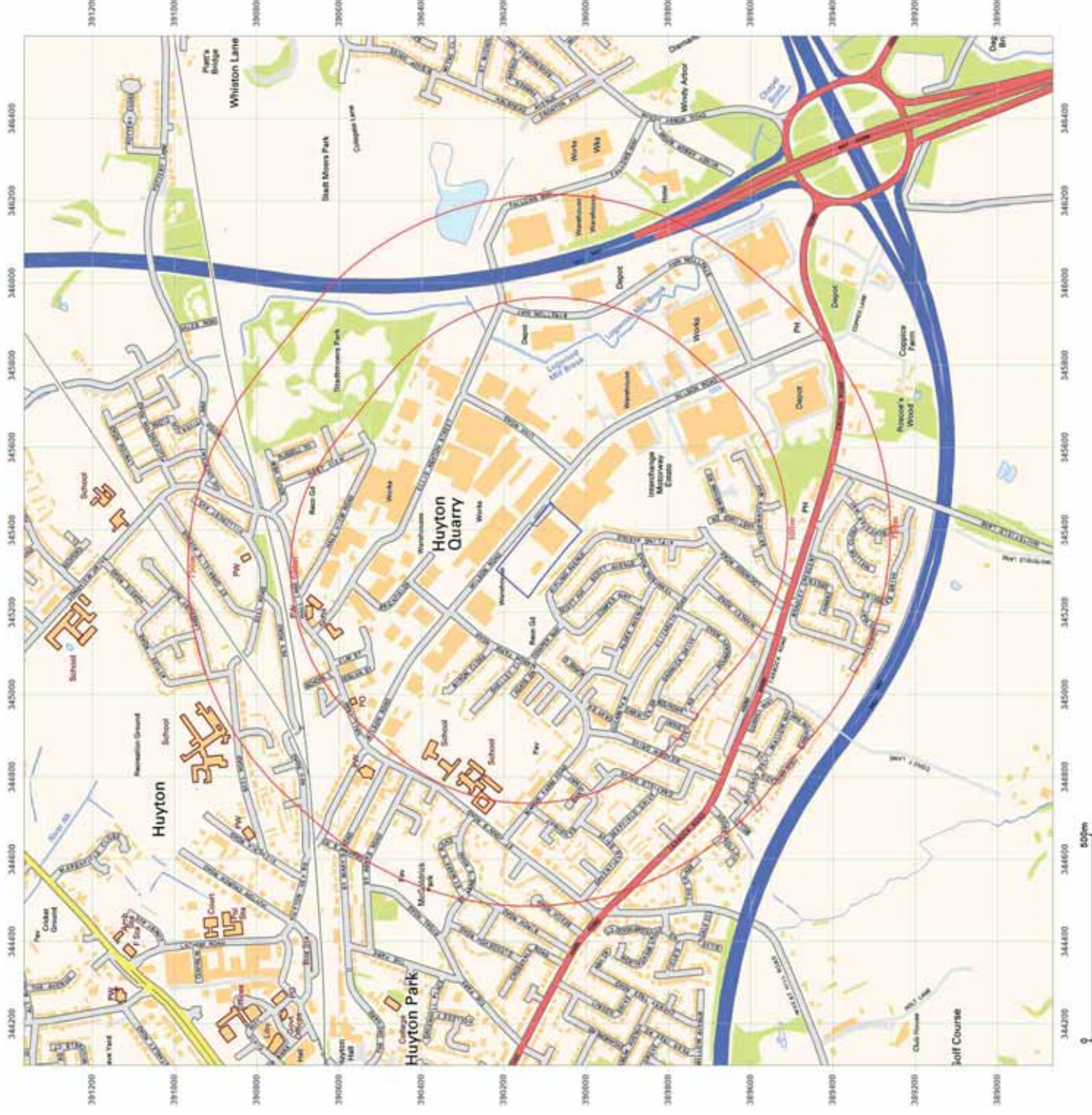


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Site Details:

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HUYTON, L36 6JG

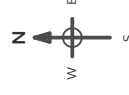
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Report Ref: GS-7735271
Grid Ref: 345350, 390115

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000



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Site Details:

INTERCHANGE MOTORWAY
ESTATE, WILSON ROAD,
HUYTON, L36 6JG

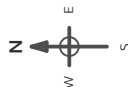
Client Ref: 9333G--Huyton
Report Ref: GS-7735271
Grid Ref: 345350, 390115

Map Name: National Grid

Map date: 2021

Scale: 1:10,000

Printed at: 1:10,000

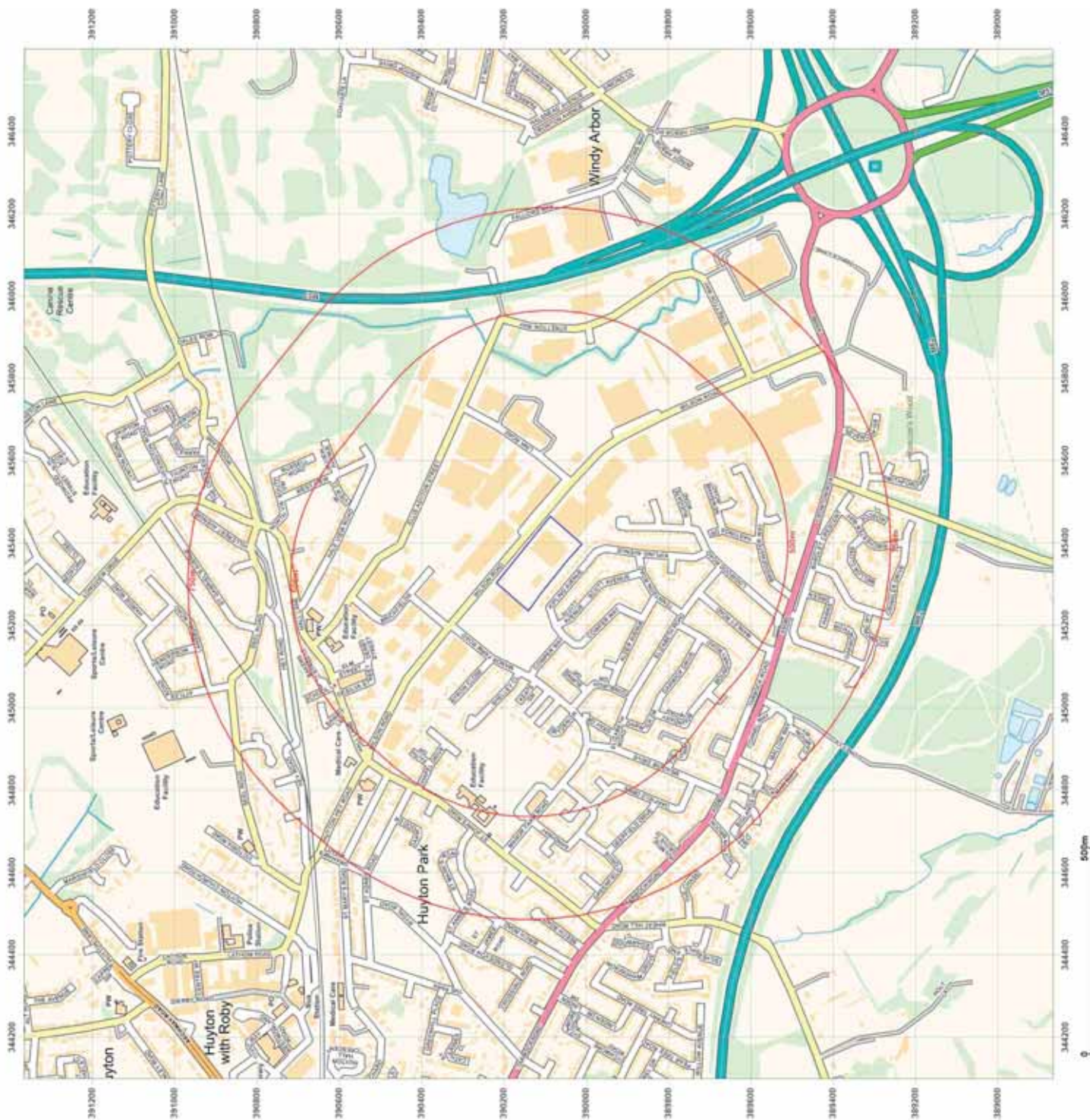


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APPENDIX 04

Coal Authority Reports

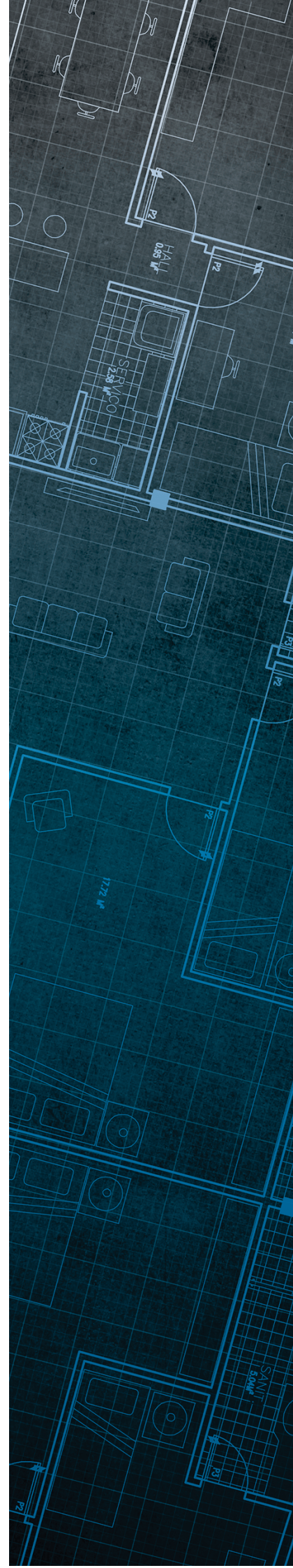


The Coal
Authority

Consultants Coal Mining Report

Interchange Motorway Estate
Wilson Road
Huyton
Knowsley
L36 6JG

Date of enquiry:	9 April 2021
Date enquiry received:	9 April 2021
Issue date:	9 April 2021
Our reference:	51002454633001
Your reference:	9333G



Consultants

Coal Mining Report

This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

Client name

WML CONSULTING

Enquiry address

Interchange Motorway Estate
Wilson Road
Huyton
Knowsley
L36 6JG

How to contact us

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

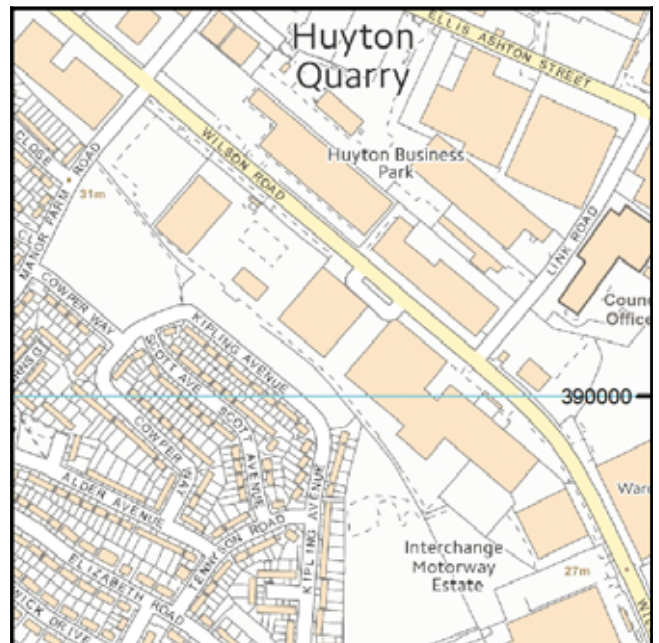
www.groundstability.com

 @coalauthority

 /company/the-coal-authority

 /thecoalauthority

 /thecoalauthority



Approximate position of property



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Section 1 – Mining activity and geology

Past underground mining

No past mining recorded.

Probable unrecorded shallow workings

Yes.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

Entry type	Reference	Grid reference	Treatment description	Mineral	Conveyancing details
Shaft	345389-002	345559 389962		Coal	
Shaft	345390-003	345132 390130		Coal	
Shaft	345390-004	345160 390165		Coal	
Shaft	345390-005	345170 390168		Coal	
Adit	345390-006	345151 390142		Coal	
Shaft	345390-009	345443 390101		Coal	
Shaft	345390-010	345444 390064		Coal	
Adit	345390-011	345139 390169		Coal	

Abandoned mine plan catalogue numbers

The following abandoned mine plan catalogue numbers intersect with some, or all, of the enquiry boundary:

0	16820	NW829
PO0		

Please contact us on 0345 762 6848 to determine the exact abandoned mine plans you require based on your needs.

Outcrops

Seam name	Mineral	Seam workable	Distance to outcrop (m)	Direction to outcrop	Bearing of outcrop
RUSHY PARK	Coal	Yes	Within	N/A	159
RUSHY PARK	Coal	Yes	Within	N/A	345

Geological faults, fissures and breaklines

Please refer to the 'Summary of findings' map (on separate sheet) for details of any geological faults, fissures or breaklines either within or intersecting the enquiry boundary.

Fault under or close to the property recorded.

Opencast mines

None recorded within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

Section 2 – Investigative or remedial activity

Please refer to the 'Summary of findings' map (on separate sheet) for details of any activity within the area of the site boundary.

Site investigations

Distance to site investigation (m)	Direction
4.2	South-West
7.2	South-West
3.2	South-West
1.3	South-West
0.2	North-West

See Section 4 for further information.

Remediated sites

None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence

The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres of the enquiry boundary, since 31 October 1994.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

The Coal Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

Mine gas

None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

Section 3 – Licensing and future mining activity

Future underground mining

None recorded.

Coal mining licensing

None recorded within 200 metres of the enquiry boundary.

Court orders

None recorded.

Section 46 notices

No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

Withdrawal of support notices

The property is not in an area where a notice to withdraw support has been given.

The property is not in an area where a notice has been given under section 41 of the Coal Industry Act 1994, cancelling the entitlement to withdraw support.

Payments to owners of former copyhold land

The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

Section 4 – Further information

The following potential risks have been identified and as part of your risk assessment should be investigated further.

Site investigations

The site is within an area of previous interest. It is close to where the Coal Authority has received information relating to past site investigations.

The site requires further investigation and may influence how you approach your risk assessment.

For further information on specific site or ground investigations in relation to any issues raised in Section 4, please call us on 0345 762 6848 or email us at groundstability@coal.gov.uk.

Section 5 – Data definitions

The datasets used in this report have limitations and assumptions within their results. For more guidance on the data and the results specific to the enquiry boundary, please **call us on 0345 762 6848** or **email us at groundstability@coal.gov.uk**.

Past underground coal mining

Details of all recorded underground mining relative to the enquiry boundary. Only past underground workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination, will be included.

Probable unrecorded shallow workings

Areas where the Coal Authority believes there to be unrecorded coal workings that exist at or close to the surface (less than 30 metres deep).

Spine roadways at shallow depth

Connecting roadways either, working to working, or, surface to working, both in-seam and cross measures that exist at or close to the surface (less than 30 metres deep), either within or within 10 metres of the enquiry boundary.

Mine entries

Details of any shaft or adit either within, or within 100 metres of the enquiry boundary including approximate location, brief treatment details where known, the mineral worked from the mine entry and conveyance details where the mine entry has previously been sold by the Authority or its predecessors British Coal or the National Coal Board.

Abandoned mine plan catalogue numbers

Plan numbers extracted from the abandoned mines catalogue containing details of coal and other mineral abandonment plans deposited via the Mines Inspectorate in accordance with the Coal Mines Regulation Act and Metalliferous Mines Regulation Act 1872. A maximum of 9 plan extents that intersect with the enquiry boundary will be included. This does not infer that the workings and/or mine entries shown on the abandonment plan will be relevant to the site/property boundary.

Outcrops

Details of seam outcrops will be included where the enquiry boundary intersects with a conjectured or actual seam outcrop location (derived by either the British Geological Survey or the Coal Authority) or intersects with a defined 50 metres buffer on the coal (dip) side of the outcrop. An indication of whether the Coal Authority believes the seam to be of sufficient thickness and/or quality to have been worked will also be included.

Geological faults, fissures and breaklines

Geological disturbances or fractures in the bedrock. Surface fault lines (British Geological Survey derived data) and fissures and breaklines (Coal Authority derived data) intersecting with the enquiry boundary will be included. In some circumstances faults, fissures or breaklines have been known to contribute to surface subsidence damage as a consequence of underground coal mining.

Opencast mines

Opencast coal sites from which coal has been removed in the past by opencast (surface) methods and where the enquiry boundary is within 500 metres of either the licence area, site boundary, excavation area (high wall) or coaling area.

Coal Authority managed tips

Locations of disused colliery tip sites owned and managed by the Coal Authority, located within 500 metres of the enquiry boundary.

Site investigations

Details of site investigations within 50 metres of the enquiry boundary where the Coal Authority has received information relating to coal mining risk investigation and/or remediation by third parties.

Remediated sites

Sites where the Coal Authority has undertaken remedial works either within or within 50 metres of the enquiry boundary following report of a hazard relating to coal mining under the Coal Authority's Emergency Surface Hazard Call Out procedures.

Coal mining subsidence

Details of alleged coal mining subsidence claims made since 31 October 1994 either within or within 50 metres of the enquiry boundary. Where the claim relates to the enquiry boundary confirmation of whether the claim was accepted, rejected or whether liability is still being determined will be given. Where the claim has been discharged, whether this was by repair, payment of compensation or a combination of both, the value of the claim, where known, will also be given.

Details of any current 'Stop Notice' deferring remedial works or repairs affecting the property/site, and if so the date of the notice.

Details of any request made to execute preventative works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991. If yes, whether any person withheld consent or failed to comply with any request to execute preventative works.

Mine gas

Reports of alleged mine gas emissions received by the Coal Authority, either within or within 500 metres of the enquiry boundary that subsequently required investigation and action by the Coal Authority to mitigate the effects of the mine gas emission.

Mine water treatment schemes

Locations where the Coal Authority has constructed or operates assets that remove pollutants from mine water prior to the treated mine water being discharged into the receiving water body.

These schemes are part of the UK's strategy to meet the requirements of the Water Framework Directive. Schemes fall into 2 basic categories: Remedial – mitigating the impact of existing pollution or Preventative – preventing a future pollution incident.

Mine water treatment schemes generally consist of one or more primary settlement lagoons and one or more reed beds for secondary treatment. A small number are more specialised process treatment plants.

Future underground mining

Details of all planned underground mining relative to the enquiry boundary. Only those future workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination will be included.

Coal mining licensing

Details of all licenses issued by the Coal Authority either within or within 200 metres of the enquiry boundary in relation to the under taking of surface coal mining, underground coal mining or underground coal gasification.

Court orders

Orders in respect of the working of coal under the Mines (Working Facilities and Support) Acts of 1923 and 1966 or any statutory modification or amendment thereof.

Section 46 notices

Notice of proposals relating to underground coal mining operations that have been given under section 46 of the Coal Mining Subsidence Act 1991.

Withdrawal of support notices

Published notices of entitlement to withdraw support and the date of the notice. Details of any revocation notice withdrawing the entitlement to withdraw support given under Section 41 of the Coal Industry Act 1994.

Payment to owners of former copyhold land

Relevant notices which may affect the property and any subsequent notice of retained interests in coal and coal mines, acceptance or rejection notices and whether any compensation has been paid to a claimant.



The Coal
Authority

Resolving the **impacts** of mining

Mine Entry Interpretive Report



INTERCHANGE MOTORWAY ESTATE,
INTERCHANGE MOTORWAY INDUSTRIAL ESTATE, WILSON ROAD,
HUYTON, KNOWSLEY, L36 6JG

Date of enquiry:	13 April 2021
Date enquiry received:	13 April 2021
Issue date:	13 April 2021

Our reference:	51002455109001
Your reference:	9333G

Mine Entry Interpretive Report

This report has been prepared using the records held by the Coal Authority at the time the report was produced.

Client name

WML CONSULTING

Enquiry address

INTERCHANGE MOTORWAY ESTATE, INTERCHANGE
MOTORWAY INDUSTRIAL ESTATE, WILSON ROAD,
HUYTON, KNOWSLEY, L36 6JG

How to contact us

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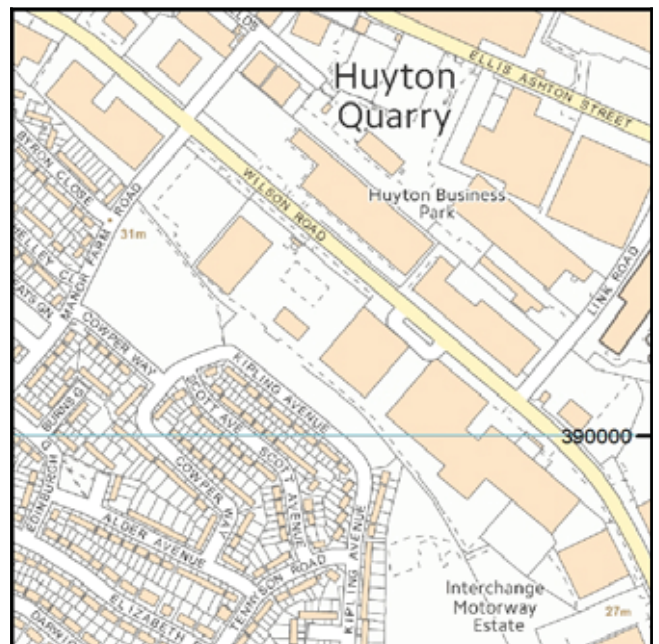
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Mansfield
Nottinghamshire
NG18 4RG

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 /company/the-coal-authority

 /thecoalauthority

 /coalauthority



Approximate position of property



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Mine entry information

If you live in a coal mining area there is a very small risk that your home or other property may be affected by coal mining subsidence.

To work out if your property is within the area of possible ground movement the report will take into account the actual or plotted position of the mine entry, its known or assumed diameter and the thickness of deposits above rockhead. For more information, please see our general information section.

In the unlikely event of your property being damaged by coal mining subsidence, you can, under the provisions of the Coal Mining Subsidence Act 1991, make a claim against the mine owner. The mine owner will treat the mine entry and arrange for repairs to the property to be carried out to the reasonable satisfaction of the property owner. The mine owner may also be liable to pay compensation for damage to moveable property such as furniture.

Please Note - The Coal Mining Subsidence Act 1991 does not cover subsidence damage caused by extraction of minerals other than coal.

Any insurance given with previous mining reports does not cover this report.

Mine entry reference 345390-009

Shaft or adit	Shaft
Mineral worked	Coal
Source	Geol:1/4 geological sheet:1840 geological sheet
Colliery name	Unknown
Entry name	Unknown
Date abandoned	Unknown
Depth of superficial deposits (m)	1.5
Depth of shaft (m)	Unknown
Diameter/maximum width (m)	2.5
Probable adit azimuth	Not Applicable
Treatment details	Unknown
Conveyance	Not Applicable
Other information	None

The risk

If coal mining subsidence was to occur because of ground movement due to the mine entry, the main building (as shown on the plan) is within the area likely to be affected. Our opinion takes into account the thickness of the superficial deposits, the potential difference between the actual and the plotted positions of the mine entry and its diameter/maximum width.

The possibility of subsidence damage is very small but should not be discounted completely.

The remedies

In the unlikely event of your property being damaged by coal mining subsidence, you can, under the provisions of the Coal Mining Subsidence Act 1991, make a claim against the mine owner. Depending on where you live, responsibility for dealing with your claim rests either with a mining company or the Coal Authority. Details of how to make a claim can be found on our website www.gov.uk/claim-for-subsidence-damage-caused-by-coal-mining. If you need any help or advice, please contact us.

The conclusion

In our opinion, the main building (as shown on the plan) is within the area likely to be affected if coal mining subsidence was to occur because of ground movement.

The statistical risk of the main building being damaged by subsidence however is very small.

In the unlikely event of your property being damaged by coal mining subsidence, you can, under the provisions of the Coal Mining Subsidence Act 1991, make a claim against the mine owner to have the damage repaired.

Mine entry reference 345390-010

Shaft or adit	Shaft
Mineral worked	Coal
Source	Geol:1/4 geological sheet:1840 geological sheet
Colliery name	Unknown
Entry name	Unknown
Date abandoned	Unknown
Depth of superficial deposits (m)	1.5
Depth of shaft (m)	Unknown
Diameter/maximum width (m)	2.5
Probable adit azimuth	Not Applicable
Treatment details	Unknown
Conveyance	Not Applicable
Other information	None

The risk

If coal mining subsidence was to occur because of ground movement due to the mine entry, the main building (as shown on the plan) is outside the area likely to be affected. Our opinion takes into account the thickness of the superficial deposits, the potential difference between the actual and the plotted positions of the mine entry and its diameter/maximum width.

The possibility of subsidence damage to the garden areas/other buildings is very small but should not be discounted completely.

The remedies

In the unlikely event of your property being damaged by coal mining subsidence, you can, under the provisions of the Coal Mining Subsidence Act 1991, make a claim against the mine owner. Depending on where you live, responsibility for dealing with your claim rests either with a mining company or the Coal Authority. Details of how to make a claim can be found on our website www.gov.uk/claim-for-subsidence-damage-caused-by-coal-mining. If you need any help or advice, please contact us.

The conclusion

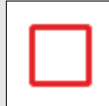
In our opinion, the main building (as shown on the plan) is not at risk of coal mining subsidence damage from the subject mine entry. This is because it is not within the area of possible ground movement.

In the unlikely event of other parts of your property being damaged by coal mining subsidence such as outbuildings, you can, under the provisions of the Coal Mining Subsidence Act 1991, make a claim against the mine owner to have the damage repaired.

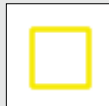
Enquiry boundary

Key

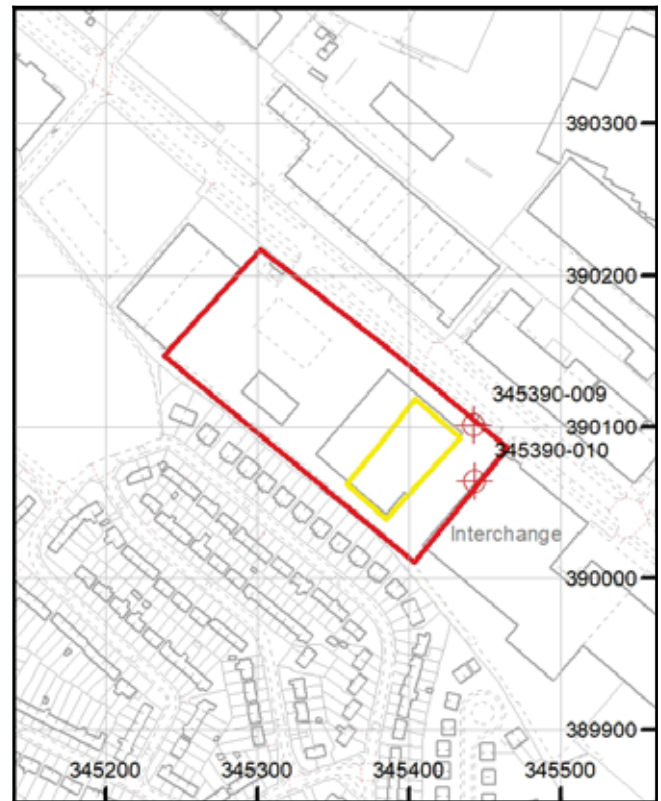
Approximate position of enquiry boundary shown



Approximate position of main building shown



Disused mineshaft



How to contact us

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+44 (0)1623 637 000 (International)

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NG18 4RG

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General information

The following information is based on the Authority's interpretation of the facts in its possession at the time the report was produced and on the Ordnance Survey's (OS) improved data. A site inspection has not been carried out.

1. Some of the source documents used may be very old and can have varying standards of accuracy. As a result, the plotted positions of mine entries can be different, to varying degrees, to their actual positions.
2. The thickness of superficial deposits has been taken from the records of the Authority and/or those of the British Geological Survey. © NERC All rights reserved. Where the Authority has information about activities such as infill operations or excavation, which may have affected the thickness of deposits above rockhead, this will also be taken into account.
3. The Authority will only provide the depth of a mine entry where this is known.
4. Where information about the diameter of a shaft is not known, it will be assumed. The assumption will be based on other shafts in the vicinity, the likely date it was sunk and any other relevant information, for example the depth of seams the shaft is thought to have accessed. Where a shaft is not circular, the maximum diagonal dimension will be used.
5. The zone of possible ground movement of an adit will be calculated for the estimated position of the mouth of the adit. It will not apply to the underground length of the adit. The approximate adit direction, where applicable, will be quoted in degrees from North.
6. Where treatment details are recorded, this information will be given. Where records are not available, "Unknown" will be reported.
7. The issue of ownership of mine entries is extremely complicated. Where details of the sale of a mine are known these will be provided. Where no sale details are available, in most instances, ownership will rest in the Coal Authority. Whatever the position with ownership, if coal mining subsidence damage does occur, statute provides for the 'responsible person' to provide a remedy. The 'responsible person' is either the Coal Authority or a licensed mining operator.
8. The report has been prepared by experienced mining surveyors with knowledge in the management and interpretation of coal mining information.

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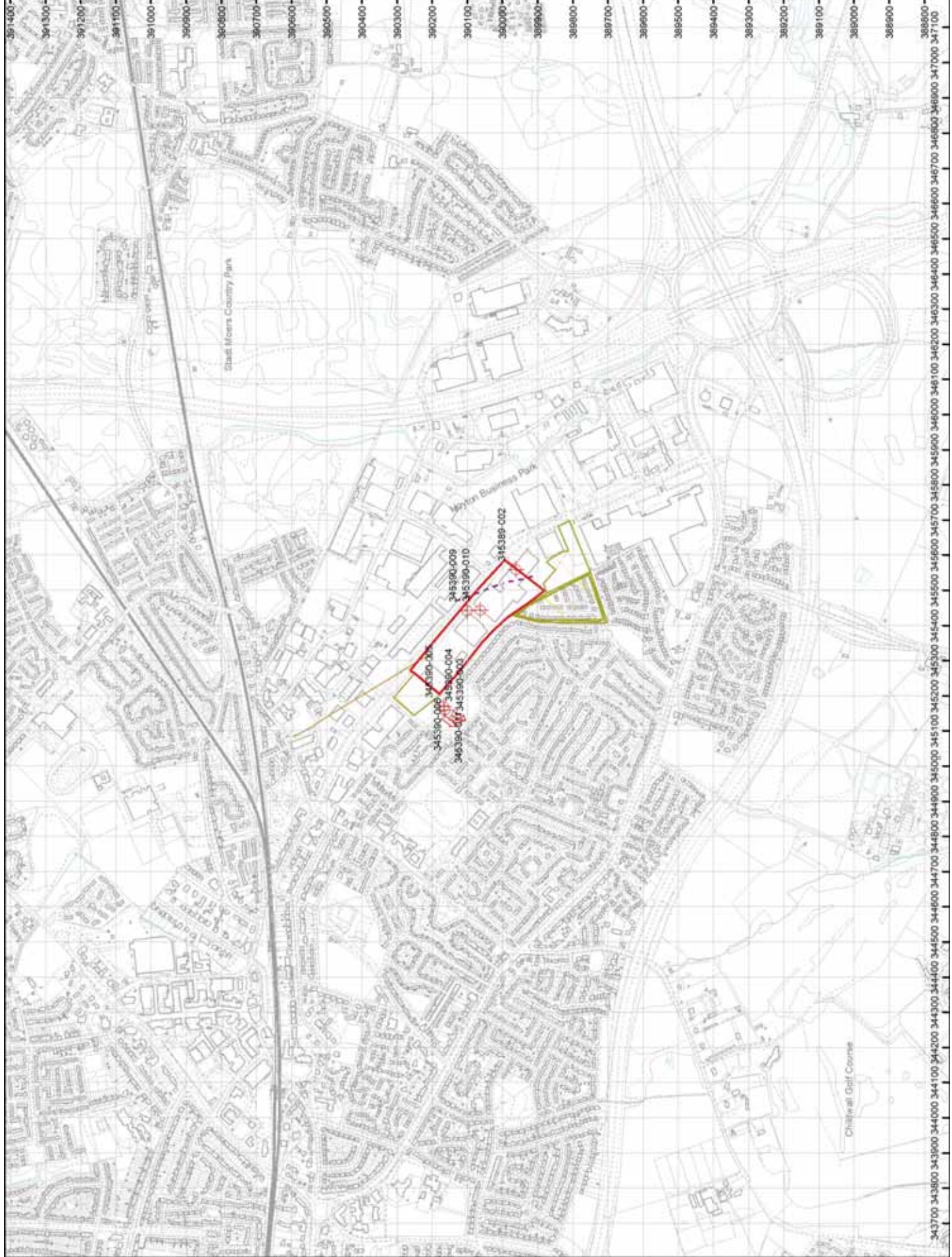
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Terms and conditions

Our full terms and conditions can be found on our website – www.groundstability.com.

The map highlights any specific surface or subsurface features within or near to the boundary of the site.



Key

- Approximate position of the enquiry boundary shown
- Disused mine shaft
- Disused adit
- Outcrop (Conjectured)
- Geological faults
- Site investigations

How to contact us

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www.groundstability.com

APPENDIX 05

Qualitative Risk Assessment Guidance

Qualitative Risk Assessment Guidance

The Preliminary Contamination Risk Assessment methodology within the Phase 1 Desk Study Report is undertaken with reference to the following CIRIA guidance.

- Contaminated Land Risk Assessment - A Guide to Good Practice CIRIA C552:2001.

In practical terms, risk evaluation is undertaken in order to ascertain if potential risks are considered to be acceptable via classification following factors.

- The magnitude of the potential **consequences** (severity) of the risk occurring.
- The magnitude of the **probability** (likelihood) of the risks occurring.
- The potential consequences of contamination risks occurring at the Site should be classified in accordance with the following table which is adapted from Table 6.3 in the CIRIA guidance.

Table 1 Classification of Consequence

Classification	Definition
Severe	Short term (acute) risk to human health likely to result in 'significant harm' as defined by the <i>Environment Protection Act 1990</i> , Part IIA. Short term risk of (significant) pollution of sensitive water resource or ecosystem. Catastrophic damage to building/property. Short term risk to a particular ecosystem, or organism forming part of such an ecosystem.
Medium	Chronic damage to human health (significant harm). Pollution of sensitive water resources. A significant change in a particular ecosystem, or an organism forming part of such an ecosystem.
Mild	Pollution of non-sensitive water resources. Significant damage to crops, buildings, structures and services. Damage to sensitive buildings/structures/services or the environment.
Minor	Harm, although not necessarily significant harm, which may results in a financial loss, or expenditure to resolve. Non-permanent, easily preventable effects to human health. Easily repairable damage to buildings, structures and services.

The probability or likelihood of a risk occurring is then classified in accordance with Table 6.4 in the CIRIA Guidance which is also reproduced in Table 2 below.

Table 2 Classification of Probability

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

These classifications are then compared to indicate the risk to each pollution linkage. For each likelihood scenario, it will be assumed that a pollution linkage exists between the source and any potential receptors. The classification is not applied if no active pollution linkage is perceived to exist.

Upon classification of both the consequences and probability, the two can be compared in Table 6.5 within the guidance, in order to produce a risk category rating. The risk categories range from 'Very High Risk' to 'Very Low Risk' and should be determined for each potential pollutant linkage as oppose to each receptor or hazard as indicated above.

The matrix table is reproduced in Table 3 below.

Table 3 Consequence Vs Probability Matrix

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

The outcome of the Consequence vs Probability matrix should be compared to the risk definitions and likely actions required in Table 4 (Table 6.6 in CIRIA C552).

The outcome will then determine the overall risk category for the site and should form the basis for any proposed investigation work and remedial actions to be determined. The assessment is based on a qualitative approach at the initial Phase 1 Desk Study, and should be updated following the results of any subsequent ground investigation results.

Table 4 Definitions of Classified Risks and Likely Required Actions

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