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KIRKBY VALLEY GOLF CLUB
INGOE LANE, LIVERPOOL

DESK STUDY

PREPARED FOR
GREEN CIRCLE VENTURES LTD

PROJECT DETAILS

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REVISION HISTORY

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1. INTRODUCTION

Zig Zag Environmental Ltd (ZZE) has been instructed by Green Circle Ventures Ltd to prepare a Desk Study report for the redevelopment of Kirkby Valley Golf Club.

The site is located approximately 9.1 km to the north-north-east of Liverpool city centre and occupies around 80 Ha. It currently comprises an 18-hole par 72 (6449 yard) public parkland golf course and some vacant land. The existing golf course is of basic layout but is a popular leisure attraction. The course is set within mature trees and is bisected by the River Alt with the two sections of the course connected over the river by footbridges.

Planning permission has been granted for the redevelopment of the existing golf course including remodelling the existing course, creation of a new par 3 golf course, conversion of the existing clubhouse, construction of a new clubhouse and construction of a 2-tier driving range with outfield and an 18-hole adventure golf course (2021/00744/FUL).

Condition No 8 of the permission requires that *'no development of any phase shall take place until an assessment of the risks posed by any contamination in relation to that phase has been submitted to, and approved in writing by, the Local Planning Authority'*. The survey *'must include (where relevant):*

- (i) *a survey of the extent, scale and nature of contamination;*
- (ii) *an assessment of the potential risks to:*
 - *human health,*
 - *property (existing or proposed) including buildings, crops, livestock, pets, woodland and*
 - *service lines and pipes,*
 - *adjoining land,*
 - *groundwaters and surface waters,*
 - *ecological systems,*
 - *archaeological sites and ancient monuments.'*

There are further requirements in relation to *'any further ground investigations', 'remediation scheme' and reporting of 'unexpected contamination'*.

This Desk Study report has been produced to address the conditions requirements. It comprises an assessment of the environmental setting and historical development of the site, based on available records in order to produce a preliminary conceptual site model to identify potential pollutant linkages with respect to the proposed development and the environmental setting, in accordance with appropriate planning policy and guidance.

The conclusions and recommendations presented in this report are the result of our professional interpretation of the information obtained. Zig Zag Environmental reserves the right to amend the conclusions and recommendations if further information becomes available.

2. SITE DESCRIPTION

2.1 SITE LOCATION

The site is located approximately 9.1 km to the north-north-east of Liverpool city centre and occupies approximately 80 Ha.

The approximate National Grid Reference for the site is 339420, 398120.

The site location is illustrated on International Design Group Drawing No G935 000 Location Plan, presented in Appendix E.

2.2 SITE DESCRIPTION

The existing site layout is shown on International Design Group Drawing No G935 001 Existing Site Plan, presented in Appendix E.

The golf course is currently accessed off Valley Road in the south-eastern corner of the site. The clubhouse and a large car park are also located in this area.

The existing site comprises the existing 1-18 Holes of Kirkby Valley Golf Course and a vacant disused open space of approximately 50 acres, which abuts the main golf course, the A506 Valley Road and Aintree Lane. The project area is split by the River Alt.

The site is well screened due to a large quantity of trees & hedgerows along the perimeter boundaries.

The northern and eastern areas of the wider golf course are dominated by amenity grassland with stands of scattered trees, plantation woodland and occasional rough grassland, scrub, ponds and ditches.

The south-western part of the development area comprises three fields of unmanaged rough grassland with scattered trees, tall ruderal vegetation, wet grassland and hedgerows along the field boundaries.

2.3 SURROUNDING LAND USE

The site and surrounding land are shown on the historic OS maps at Appendix A and the Google Earth images at Appendix B. The following summarises the neighbouring sites:

North-West	The Liverpool to Kirkby Northern Line railway with an area of recreational land extending to the Leeds & Liverpool Canal beyond.
North-East	The M57 motorway with residential housing beyond.
South-East	Ingoe Lane with residential houses and woodland beyond
South	Valley Road with residential development & Lime Tree Woods beyond.
South-West	Aintree Lane with an undeveloped area and houses beyond.

2.4 TOPOGRAPHY

The topography is illustrated on OS maps at Appendix A.

The site and its immediate environs are generally relatively low-lying, flat and level. Some minor undulations and some elevated green & tees are present within the existing golf course layout.

The River Alt bisects the site, flowing in a north-westerly direction.

2.5 PROPOSED DEVELOPMENT

Planning permission has been granted for the 're-development of golf course including;

- *the importation of up to 475,000 cubic metres of inert soils, sands and aggregate (to be governed by CL:AIRE DOWCOP procedures / protocols), to remodel the existing golf course and create a new 9 hole par 3 golf course on 52 acres of disused land adjacent to the existing golf course,*
- *erection of new two storey clubhouse comprising bar, restaurant, function space, changing rooms and associated facilities, change of use of existing clubhouse to golf related training academy with overnight accommodation for golf professionals with extension to building, and alterations, new centrally located greenkeepers compound with associated portal frame building housing welfare facilities, office space, training space and equipment storage, and maintenance and security fencing,*
- *creation of an adventure golf course and practice putting green, creation of a golf driving range with two storey building including bar/lounge, pro golf shop, training and practice, lighting and netting and supporting works including drainage works (including irrigation water bodies / wetland features),*
- *the erection of a footbridge over the River Alt,*

- *creation of 1no new access onto Valley Road,*
- *extending car park and*
- *site wide landscaping.'*

The development layout is shown on International Design Group (IDG) Drawing Nos G935 002 & 003 presented at Appendix E and in relatively simple terms on Figure 1, below.



Figure 1 – Site Layout

It can be seen, from IDG Drawing No G935 003 Proposed Masterplan Colour Rev A that the built development is limited to the new club house, driving range & academy building in the southern part of the site and the maintenance facilities in the centre of the site. Everything else is essentially earthworks and landscaping.

3. SITE HISTORY

The site history has been established from historic Ordnance Survey (OS) maps for the period 1850 to 2024 (Appendix A) & Google Earth aerial photographs between 2000 and 2024 (Appendix B).

The earliest OS map of 1850 shows the site comprising agricultural land, possibly associated with Ingoe Farm located close to the eastern side boundary, with a meandering river running through it in a north-westerly direction. At this time the railway line is also present to the north-west. Beyond the railway line is the Leeds & Liverpool Canal.

A series of roads are also already present including Moor Lane to the south, Aintree Lane to the west and Ingoe Lane to the south-east, and a track cutting through the south-western section of the site connecting Aintree Lane and Moor Lane.

Hunters House is located immediately to the north-western of the site and Nicholson House is present in the central part of the site close to the river.

No significant changes to the site itself are evident on the 1894 & 1909 edition maps. Although the track connecting Aintree Lane and Moor Lane is no longer shown by 1894 and Kirkby Works and some detached houses are shown on the 1909 map, to the east of Ingoe Lane.

The land to the west of Aintree Lane has been developed by 1909, with Fazarkerley Sidings & Junction, a refuse destructor & filter beds and a hospital & cottage homes.

The 1928 & 1938 edition maps show little change to the site itself but during this period the River Alt is being re-aligned with a straight channel rather than the meandering one evident on the earlier maps. Also shown on the 1938 map is a large residential development to the south-west.

The 1954 map shows some residential development along Moor Lane to the south-west of the site and a Royal Air Force Reserve centre to the south beyond Moor Lane.

The 1967 edition map has the former Nicholson Cottage renamed Hospital Cottage with another small property to the west now called Nicholson Cottage. The land to the north-east of the site has been developed as a large residential housing estate.

The golf course (Liverpool Municipal Golf Course) is first evident on the 1974 edition map, occupying the land to the north-east of the River Alt and part of the land to the south-east. A clubhouse is shown on the 1988 edition map, located in the south-eastern part of the site, close to the site entrance off Moor Lane/Ingoe Lane. A quadrant of land in the south-western section of the site remains undeveloped consisting of open land with some non coniferous trees.

Hospital Cottage is no longer shown on the 1974 map but the new Nicholson Cottage is still present. The M57 motorway is also present at this time with an electricity transmission line immediately to the south-west. These provide the north-eastern boundary to the golf course.

The former Fazakerley Sidings are progressively decommissioned and cleared between around 1974 & 1999.

No further changes are evident to the site, up to the present day.

The former hospital site to the west has been redeveloped for residential use by 1974. ZZE is advised that the golf course was constructed in 1928 as an 18-hole par 72 (6449 yard) public parkland golf course. The golf club was managed for many years by Liverpool City Council, but it was taken over by Green Circle in 2014.

Google Earth aerial photographs show no changes to the site layout over the period 2000 to 2024. It is also evident from these photographs that there have been no significant changes to the surrounding land with the exception of the land immediately to the west. Earthworks are evident on the 2010, 2012 & 2013 aerial photographs but this area appears to have been restored, and a new pond created by 2015.

4. GEOLOGY

The geological setting has been established from the British Geological Survey (BGS) based mapping supplied by Landmark (Appendix C).

Review of the geological information indicates that:

- The site and some land to the north of the railway line is marked as made ground (undivided). This is almost certainly related to the formation of the golf course in the 1920's.
- The site is underlain by mixed superficial deposits consisting of a relatively narrow strip of alluvial soils along the route of the River Alt, Shirdley Hill Sand to the south-west of the river and in relatively limited locations to the north-east. These soils overly glacial till (Boulder Clay) which is present across the whole region.
- The site is underlain by Triassic sandstone, comprising the Chester Formation bedrock across the majority of the site. The south-western part of the site is underlain by the Wilmslow Sandstone Formation.
- There is a north-north-westerly trending fault beneath the western section of the site.

Landmark reports that the anticipated soil chemistry for this site is as follows:

Arsenic	15 – 25 mg/kg
Cadmium	<1.8 mg/kg

Chromium	90 – 180 mg/kg
Lead	<100 mg/kg
Nickel	15 – 60 mg/kg

The distribution of these metals is dependent on the subsoil type, this is particularly relevant for chromium and nickel. Refer to the plans presented at Appendix D.

These soil metal concentrations are all below the human health assessment criteria for public open space (park) land use and therefore would not represent a significant potential risk to the approved development.

5. MINING & GROUND STABILITY

The site is not in a coal mining reporting area¹.

There are no former or current recorded mineral sites in the vicinity of the development site.

The Envirocheck Report (Appendix D) also contains information on ground stability, as summarised below:

Collapsible Ground:	Very Low to No Hazard
Compressible Deposits:	Very Low Hazard
Ground Dissolution:	No Hazard
Landslide:	Very Low Hazard
Running Sand:	Very Low Hazard
Shrink Swell Clays:	Very Low to No Hazard

6. HYDROGEOLOGY

The Envirocheck Report contains information on the environmental setting of the site.

The superficial deposits at the site are classified as a Secondary A or Secondary (undifferentiated) Aquifer. The bedrock (Triassic sandstone) is classified as a Principal Aquifer.

Principal Aquifers are described '*strategically important rock formations with high permeability and water storage capacity... They provide significant water supplies and/or flow to rivers.*'

Secondary Aquifers are described as '*permeable layers capable of supporting water supplies at local rather than strategic scale (often with limited yields), and in some cases forming an important source of base flow to rivers.*'

¹ The Coal Authority Interactive Map

The site is located within a defined Zone III (Total Catchment) source protection zone, due to the fact that the bedrock underlying the site is Triassic Sandstone. The closest areas of Zone I & Zone II relate to an abstraction borehole located some 1.6 km to the south-east of the site.

The closest groundwater abstractions are as follows:

1186 m N	BICC abstracts groundwater at Melling for cooling & boiler feed, drinking, cooking, sanitary, washing for industrial premises
1375 m W	Stella Products Ltd abstracts groundwater at Fazakerley for other industrial/commercial/public services: evaporative cooling.
1784 m W	Aintree Racecourses Co Ltd abstracts water at Aintree Racecourse for spray irrigation.

Note: Distances to the centre of the development site.

Landmark reports that groundwater from the Lower Mersey Basin & North Merseyside Permo-Triassic sandstone aquifer has a poor chemical rating and poor overall rating.

According to Landmark there is a risk of groundwater flooding at the site, particularly close to the River Alt. Refer to plans presented at Appendix D. The developer has advised ZZE that the River Alt flooded Valley Road last December when the carriageway was flooded and was impassable to pedestrians & vehicles.

7. HYDROLOGY

The site is located in the catchment of the River Alt which flows in a north-westerly direction through the site. As stated in Section 3, the river's course was re-aligned in around 1928/38 from a meandering channel to the existing straight channel.

There are a series of ditches and drainage channels within the existing golf course as illustrated on the OS Water Network plan presented at Appendix D.

The Leeds & Liverpool Canal is located some 140 to 260 m to the north of the site.

According to Landmark there are lakes to the south-west (100 m) and south of the site.

According to Landmark there is potential for flooding to occur at the site from rivers without defences. The area of the golf course which is generally classified as being in Flood Zone 1, but some areas close to the river are Flood Zone 2 & 3. The areas of Flood Zone 3 have been excluded from the development site boundary.

A flood risk assessment has been produced for the site by Betts Hydro Consulting Engineers and is available via the Councils planning portal. Refer to the Flood Risk Assessment & Drainage Management Strategy report Revision 1.0, dated 08/06/23 for further details.

British Waterways Board had a number of licenced water abstractions from the Leeds & Liverpool Canal to the north & north-west, for agricultural spray irrigation although each has been revoked.

The closest consented discharges are located some 150 m to the west and close to the southern site boundary. Both allow United Utilities to discharge sewage to the River Alt, one upstream and one downstream of the development site.

There are other discharges to the local surface water network.

Landmark has identified a number of pollution incidents to controlled waters at the site. The following incidents were reported close to the River Alt within the overall development site. Each of the incidents occurred before Green Circle took over the operation of the site in 2014.

March 1993, central part of the site. Pollutant – oils (unknown). Category 3 – Minor Incident.

July 1999, central part of the site. Pollutant – general biodegradable (grey water). Category 3 – Minor Incident.

July 1992, central part of the site. Pollutant – oils (weathered lube). Category 3 – Minor Incident.

March 1992, north-western part of the site. Pollutant – oils (lubricating). Category 3 – Minor Incident.

June 1991, south-eastern part of the site. Pollutant – storm sewage. Category 2 – Significant Incident.

October 1991, south-eastern part of the site. Pollutant – chemicals (paints/dyes). Category 3 – Minor Incident.

March 1995, south-eastern part of the site. Pollutant – crude sewage. Category 2 – Significant Incident.

October 1994, south-eastern part of the site. Pollutant – storm sewage. Category 2 – Significant Incident.

November 1995, south-eastern part of the site. Pollutant – unknown. Category 3 – Minor Incident.

8. POTENTIAL SOURCES OF CONTAMINATION

There is one landfill site within the south-western section of the development site, where the 9-hole academy golf course is to be constructed. There are 2 entries for this in the Envirocheck Report.

It is reported that that Liverpool City Council deposited inert uncontaminated soil at the former Liverpool Municipal Golf Course. Records indicate the site was operated around 1993 and was exempt from licence.

A second landfill is located to the east, between Ingoe Lane and the M57 motorway, less than 50 m from the eastern site boundary. There are 3 entries for this landfill site in the Envirocheck Report, but limited information is known. It is suggested that the site was probably operated by the local authority, Knowsley Metropolitan Borough Council.

Two further landfills are indicated, some 165 & 260 m to the south-east of the development site, as follows:

- Historical landfill at Burtons Bridge, some 165 m from the site where the disposed wastes are reported to include household waste.
- Historical landfill site at the back of Gilmooss Lane, some 260 m from the site. Deposited wastes included industrial and household waste. It appears that this site has been redeveloped for commercial/industrial use as part of Gilmooss Industrial Estate.

It is also reported that UK Sports Parks Ltd operated a waste recovery activity at Fazakerley Playing Fields immediately to the west of the site, beyond Aintree Lane. The license was issued in 2012, but its current status is described as having been revoked.

In addition to the landfill/waste recovery sites, Landmark has also identified numerous areas of potentially infilled land, many of which relate to the former meandering route of the River Alt, which was backfilled when the river was re-aligned in the early part of the 20th Century.

There are 6 areas of potentially infilled land in the eastern part of the site and 3 in the north-western area, all of which are within the existing golf course. A further 4 areas of potentially infilled land are located in the south-western section of the site where some of the main built development will be located, these are described as follows:

Ref 150 Unknown Filled Ground (Pond, marsh, river, stream, dock etc) based on 1909 OS mapping. Located close to the River Alt and possibly part of the former river course.

Ref 153 Unknown Filled Ground (Pond, marsh, river, stream, dock etc) based on 1850 OS mapping.

Ref 155 Unknown Filled Ground (Pond, marsh, river, stream, dock etc) based on 1850 OS mapping. Located very close to Aintree Lane.

Ref 159 Unknown Filled Ground (Pond, marsh, river, stream, dock etc) based on 1850 OS mapping.

Most of the features are likely to be old agricultural ponds, infilled more than 100 years ago. Consequently, any ongoing potential for hazardous gas and/or polluting leachate generation is likely to be very low.

Landmark has identified one substantiated pollution incident in the vicinity of the site. In September 2004 various waste materials were disposed less than 50 m to the north-west of the site at Aintree Lane. The items discarded included general biodegradable, natural organic material, inert construction/demolition material, household waste, tyres and vehicles/vehicle parts. The incident was classified as follows:

Water Impact Category 4 – No Impact

Air Impact Category 4 – No Impact

Land Impact Category 2 – Significant Impact

The nearest open petrol stations (Shell Fazarkerley & West Vale Service Station) are located at Longmoor Lane some 170 m to the south-west of the site and approximately 340 m to the north-east.

9. RADON

Landmark reports that the site *'is in a lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level' and consequently 'no radon protection measures are necessary in the construction of new dwellings or extensions'.*

10. SENSITIVE SITES

There are no potentially designated environmental sites in the immediate vicinity of the site.

The site is within an area of adopted green belt.

A series of ecology investigations have been undertaken at the site with reports being produced by Ecology Services, covering the likes of bats, water voles, badgers & breeding birds. These are available via the Council's planning portal.

In its Ecological Appraisal report Ecology Services reports that *'existing habitats are retained and protected where possible and compensation is provided for the loss of poor semi-improved grassland, scattered trees, scrub and hedgerows. Overall, there will be a net gain of 0.63 ha new woodland planting, 550 trees and 0.97 ha standing water (two lakes). A further 5.86 ha out of play areas in the wider golf course will be allowed to grow and be managed as rough grassland and scrub and managed to encourage species diversity.'*

11. PRELIMINARY CONCEPTUAL MODEL

The Environment Act 1995 makes provision for a risk-based framework for the identification, assessment and management of potentially contaminated land through the assessment of risk.

The process of risk assessment is an evaluation of the probability of harm, and comprises the identification of sources of contamination, receptors that may be affected by the contamination and pathways by which the receptors may be harmed.

In this section of the report Zig Zag Environmental provides a qualitative assessment of risks based on potential contamination, plausible pathways and all significant receptors.

The risk assessment is based upon the approved development as described at Section 2.5. Should the nature of the development change or the activities undertaken on the site alter in the future the environmental assessment should be reviewed and altered accordingly.

On-Site Potential Contaminative Sources

The existing golf course was developed from farmland in around 1928. The south-western quadrant is predominantly undeveloped land comprising three fields of unmanaged rough grassland with scattered trees, tall ruderal vegetation, wet grassland and hedgerows along the field boundaries.

Although in around 1993, Liverpool City Council deposited inert uncontaminated soil in the north-western section of the undeveloped land immediately south of the western part of Liverpool Municipal Golf Course. This former landfill is located on the northern edge of Development Phase 2b.

There are numerous areas of potentially filled ground at the site although these generally relate to the former meandering course of the River Alt before it was re-aligned in the late 1920's and 1930's or agricultural ponds, also from the late 19th or early 20th centuries. These are therefore likely to be low risk hazards.

Landmark reports a number of pollution incidents to controlled waters at the site, all of which occurred prior to Green Circle taking over the operation of the site in 2014. Most were classified as minor incidents but there were 3 incidents of sewage pollution which were classified as significant incidents.

Off-Site Potential Contaminative Sources

The north-western site boundary is defined by a railway line. The former Fazakerly Junction and Sidings were located to the north-west being shown on historic OS maps from between around 1909 & 1974.

There are two former landfill sites within 250 m of the development site boundary, one immediately to the east, between Ingoe Lane and the M57 motorway which was probably operated by the local authority and one at Burtons Bridge, some 165 m from the site where the disposed wastes are reported to include household waste.

UK Sports Parks Ltd operated a waste recovery activity at Fazakerley Playing Fields to the west of the site, beyond Aintree Lane. The license was issued in 2012 and later revoked.

No other significant potentially contaminative land uses have been identified within the land immediately surrounding the site.

Conclusions

Based on the available information reviewed as part of this assessment, the potential for significant contamination to be present at the site is considered to be Low to Moderate.

The primary potential area of concern is the former landfill despite the records stating it was used for the disposal of inert uncontaminated soil

Potential Contaminative Pathways

The approved scheme comprises various different elements, including significant areas of earthworks/landscaping, as well as some very limited areas of hard/built development.

The risks and hazards are slightly different for each phase of development. The following potential contamination pathways may exist:

- (i) Direct dermal contact
- (ii) Ingestion of contaminated soil
- (iii) Inhalation of contaminative dust/fibres/vapours
- (iv) Volatilisation and migration of volatile organic contaminants through the unsaturated zone of soil leading to inhalation

- (v) Breakdown of contaminants generating gaseous phase products (eg carbon dioxide, methane)
- (vi) Dissolution or suspension (leaching) of contaminants into groundwater
- (vii) Lateral migration of contaminants in shallow groundwater (dissolved and immiscible phases) providing base flow to surface waters
- (viii) Further downward migration of contaminants in shallow groundwater to the underlying aquifer
- (ix) Preferential flow pathways may be provided by:
 - more permeable layers within the made ground and/or natural strata
 - underground services
 - piles and foundations

The site is underlain by mixed superficial deposits consisting of a relatively narrow strip of alluvial soils along the route of the River Alt, Shirdley Hill Sand to the south-west of the river and in relatively limited locations to the north-east. These soils overly glacial till (Boulder Clay) which is present across the whole region.

The natural glacial clay has a very low natural permeability which would severely restrict migration between near surface deposits and the underlying Triassic Sandstone Principal Aquifer. Also limiting migration between the site and any off-site potential pollution sources or receptors.

Potential Receptors

Condition No 8(ii) requires the assessment of the following potential receptors:

- human health
- property (existing or proposed) including buildings, crops, livestock, pets, woodland
- service lines and pipes
- adjoining land
- groundwaters and surface waters
- ecological systems
- archaeological sites and ancient monuments

Risk Assessment

The assessment of risk is based on the concept of the source – pathway - receptor linkage.

Risks posed to each of the identified potential receptors are discussed below in accordance with CIRIA Guidance Document: Contaminated Land Risk Assessment – A Guide to Good Practice.

An environmental risk rating of Negligible, Very Low, Low, Moderate or High has been assigned to each identified receptor.

An environmental risk rating of Negligible, Very Low, Low, Moderate or High has been assigned to each identified receptor. The approved development has been subdivided into a series of phases, as illustrated on Figure 2 & appended drawings and summarised below. Risks are rated for each development phase.



Figure 2 – Construction Phasing

The phases are described as follows:

- Phase 1a Initial road junction & traffic lights
- Phase 1b Final road junction
- Phase 2a Existing golf course – winter works
- Phase 2b Par 3 academy golf course and driving range outfield
- Phase 2c New pedestrian bridge
- Phase 3 Maintenance area, driving range building & adventure golf
- Phase 4 Car park & associated landscaping
- Phase 5 Clubhouse
- Phase 6 Academy building

Human Health (Future Site Users)

Potential risks to human health have been classified as follows:

Phase	Description	Risk Rating	Notes
1a & 1b	Road Junction	Very Low	Possibly limited short term exposure to construction workers during ground excavations. Any existing hardstanding broken out to undertake the works will be re-instated.
2a	Existing Golf Course	Low	The golf course has been present for almost 100 years. Potential exposure to existing and future golfers is very low.
2b	Par-3 Course	Low	It is proposed to import and place suitable soil in this area to construct the par-3 course, thus capping any potential existing contamination, including the former Council inert, uncontaminated soil landfill.
2c	Pedestrian Bridge	Very Low	Possibly limited short term exposure to construction workers during ground excavations.

Phase	Description	Risk Rating	Notes
3	Maintenance Area, Driving Range & Adventure Golf	Low	It is proposed to import and place suitable soil in this area to construct the driving range, thus capping any potential existing contamination.
4	Car Park & Landscaping	Low	The car park surfacing will provide a physical barrier between future site users and any subterranean ground contamination. The potential for contamination within existing soils and subsoil that may be re-used within these areas is considered to be low given the lack or any previous contaminative development.
5	Clubhouse	Low	The building and associated surfaced car park will provide a physical barrier between future site users and any subterranean ground contamination in this section of the site. The potential for contamination within existing soils and subsoil that may be re-used within any landscaping associated with the new clubhouse is considered to be low given the lack or any previous contaminative development.
6	Academy Building	Low	The building and associated surfaced car park will provide a physical barrier between future site users and any subterranean ground contamination in this section of the site. The potential for contamination within existing soils and subsoil that may be re-used within any landscaping associated with the academy building is considered to be low given the lack or any previous contaminative development.

Property including buildings, crops, livestock, pets, woodland

Due to the nature of the approved development there will be no crops, livestock or pets at the site. There are existing and proposed areas of woodland and other soft landscaping.

As stated at Section 2.2, the northern and eastern areas of the wider golf course are dominated by amenity grassland with stands of scattered trees, plantation woodland and occasional rough grassland, scrub, ponds and ditches. However, no major works are proposed in these areas.

Potential risks to property have been classified as follows:

Phase	Description	Risk Rating	Notes
1a & 1b	Road Junction	Negligible	
2a	Existing Golf Course	Negligible	The golf course has been present for almost 100 years. The anticipated ground conditions at this phase do not represent significant potential risk to off-site building.
2b	Par-3 Course	Negligible	It is proposed to import and place suitable soil in this area to construct the par-3 course, thus capping any potential contamination, including the former Council inert, uncontaminated soil landfill. The anticipated ground conditions at this phase do not represent significant potential risk to off-site building.
2c	Pedestrian Bridge	Negligible	
3	Maintenance Area, Driving Range & Adventure Golf	Low	The central maintenance building is some 75 m east of the former on-site landfill. In the unlikely event that the landfill contains a significant source of hazardous gas there might be a relatively low risk. The closest off-site landfill is more than 325 m away & therefore is unlikely to represent a significant hazard. The driving range is located some 230 m to the south-east of the on-site landfill and more than 300 m from the off-site landfills. Potential gas risks associated with these sources are therefore considered to be low.
4	Car Park & Landscaping	Very Low	The car park surfacing will provide a physical barrier between future site users and any subterranean ground contamination. The potential for contamination within existing soils and subsoil that may be re-used within these areas is considered to be low given the lack of any previous contaminative development.

Phase	Description	Risk Rating	Notes
			The anticipated ground conditions at this phase do not represent significant potential risk to off-site property.
5	Clubhouse	Low	The clubhouse is some 315 m south-east of the former on-site landfill and more than 260 m from the two off-site landfills. These potential sources of hazardous gas are therefore unlikely to represent a significant risk. The anticipated ground conditions at this phase do not represent significant potential risk to off-site building.
6	Academy Building	Low to Moderate	The approved scheme includes '<i>change of use of existing clubhouse to golf related training academy with overnight accommodation for golf professionals with extension to building</i>'. The building and associated surfaced car park will provide a physical barrier between future site users and any subterranean ground contamination in this section of the site. The academy building will be located some 100 m south of the former local authority landfill situated between Ingoe Lane and the motorway & 280 m north of landfill at Burtons Bridge. Potential gas risks should be investigated and assessed. The anticipated ground conditions at this phase do not represent significant potential risk to off-site building.

Service Lines & Pipes

ZZE is not aware of any major service lines or pipes across the general development site.

The existing clubhouse is served by all the main services eg electricity, water & sewer. The developer is aware of the service locations and will ensure these are protected or disconnected as appropriate during the works.

If new water supplies are required for any part of the new development these will be subject to assessment and completion of the United Utilities risk assessment.

Groundwater & Surface Water

The superficial deposits at the site are classified as a Secondary A or Secondary (undifferentiated) Aquifer. The bedrock (Triassic sandstone) is classified as a Principal Aquifer.

The site is located within a defined Zone III (Total Catchment) source protection zone, due to the fact that the bedrock underlying the site is Triassic Sandstone.

It is reported that groundwater from the Lower Mersey Basin & North Merseyside Permo-Triassic sandstone aquifer has a poor chemical rating and poor overall rating. This means that it may have limited resource potential. Although that may change in the future.

There are no groundwater abstractions in the immediate vicinity of the site. The nearest abstractions are used for industrial use and spray irrigation. These would be regarded as low sensitivity uses.

The site is located in the catchment of the River Alt which flows in a north-westerly direction through the site. As stated in Section 3 the river's course was re-aligned in around 1928/38 from a meandering channel to the existing straight channel.

The Leeds & Liverpool Canal is located some 140 to 260 m to the north-west of the site.

New water features will be created as part of the development of the site, including two new ponds, one in the south-eastern part of the existing golf course and a second larger pond within the Par-3 course. These will assist with the long-term irrigation at the site.

Potential risks to controlled waters have been classified as follows:

Phase	Description	Risk Rating	Notes
1a & 1b	Road Junction	Negligible	
2a	Existing Golf Course	Negligible	There is an existing network of drainage ditched and channel at the site. In addition, a new pond is proposed.
2b	Par-3 Course	Negligible to Low	The former inert uncontaminated soil landfill is located some 180 m to the west of the River Alt. There may be some local connectivity through permeable superficial soils.

Phase	Description	Risk Rating	Notes
			Risks to the sandstone aquifer are considered to be negligible because the natural low permeability glacial till (Boulder Clay) will act as a barrier severely restricting migration between near surface soils and made ground and the deep sandstone. A new large pond will be created as part of the development works.
2c	Pedestrian Bridge	Negligible	
3	Maintenance Area, Driving Range & Adventure Golf	Negligible	
4	Car Park & Landscaping	Negligible	
5	Clubhouse	Negligible	
6	Academy Building	Negligible	

Ecology

The are no potentially designated environmental sites in the immediate vicinity of the development. However, the site is within an area of adopted green belt.

The developer commissioned Ecology Services to produce a series of ecology reports covering the likes of bats, water voles, badgers & breeding birds in support of the planning application. These are available via the Councils planning portal.

In its Ecological Appraisal report Ecology Services reports that 'existing habitats are retained and protected where possible and compensation is provided for the loss of poor semi- improved grassland, scattered trees, scrub and hedgerows. Overall, there will be a net gain of 0.63 ha new woodland planting, 550 trees and 0.97 ha standing water (two lakes). A further 5.86 ha out of play areas in the wider golf course will be allowed to grow and be managed as rough grassland and scrub and managed to encourage species diversity.'

Existing ground contamination will have a very low potential impact upon the existing and/or proposed ecological aspects of the scheme. A significant uplift in ecological habitat and biodiversity is built into the scheme.

Archaeological Sites & Ancient Monuments

There are no archeologically important sites or monuments in the vicinity of the site.

12. CONCLUSIONS & RECOMMENDATIONS

Zig Zag Environmental has been instructed by Gren Circle Ventures Ltd to prepare a desk study for approved redevelopment of Kirkby Valley Golf Club.

This desk study report has been produced to address condition no 8 of the planning permission (Application No 2021/00744/FUL??).

Based on information obtained and reviewed the potential for significant contamination to be present at the site which may affect the development is generally low. A number of old landfill sites have been identified, one on the site itself used for the disposal of inert uncontaminated soils and two off-site but within potential influencing distance of some of the proposed new buildings.

Given the large and varied nature of the development some further investigations are recommended but these are phase specific as detailed below:

Phase	Description	Potential Hazards	Recommendation
1a & 1b	Road Junction	None	Watching Brief*
2a	Existing Golf Course	Possible infilled ponds.	Watching Brief*
2b	Par-3 Course	Old inert uncontaminated soil landfill & possible infilled ponds. Possible gas and ground contamination risks.	Trial pits to enable visual assessment of the disposed inert wastes within the identified landfill. Soil sampling & analysis if made ground or visual evidence of contamination is identified. Watching Brief for the rest of this phase – could include visual inspection on the subsoils exposed once the vegetation and topsoil layer has been stripped off.
2c	Pedestrian Bridge	None	Watching Brief*

Phase	Description	Potential Hazards	Recommendation
3	Maintenance Area, Driving Range & Adventure Golf	Possible hazard gas risks associated with the identified landfill sites.	Window sample boreholes and gas monitoring due to the proximity of identified landfills. This recommendation may be reviewed once the on-site landfill wastes have been inspected and assessed. Soil sampling & analysis if made ground or visual evidence of contamination is identified.
4	Car Park & Landscaping	None	Watching Brief* Topsoil sampling & analysis if soils are to be re-used.
5	Clubhouse	Possible hazard gas risks associated with the identified landfill sites.	Window sample boreholes and gas monitoring due to the proximity of identified landfills. Soil sampling & analysis if made ground or visual evidence of contamination is identified.
6	Academy Building	Possible hazard gas risks associated with the identified landfill sites.	Window sample boreholes and gas monitoring due to the proximity of identified landfills. Soil sampling & analysis if made ground or visual evidence of contamination is identified.

The 'Watching Brief' might include the following:

- Inspection of the exposed subsoils following removal of existing vegetation and the removal & temporary stockpiling of the topsoil.
- Having access to a suitably qualified and experienced consultant in the event that groundworker identify possible ground contamination during routine development works.

Condition 8D of the planning permission (Reporting of Unexpected Contamination) requires that *'in the event that contamination is found at any time when carrying out the approved development that was not previously identified it must be reported immediately to the Local Planning Authority. Development on the part of the site affected must be halted and a risk assessment carried out and submitted to and approved in writing by the Local Planning Authority. Where unacceptable risks are found remediation and verification schemes shall be submitted to and approved in writing by the Local Planning Authority. These shall be implemented prior to the development (or relevant phase of development) being brought into use.'*

In terms of the implementation of the recommendations, these can be considered on a phase-by-phase basis. For example, it is not necessary to carry out the investigation and gas monitoring for the clubhouse and academy buildings before the par-3 course is constructed, as any associated construction works are likely to be undertaken later in the overall development programme.



APPENDIX A

HISTORICAL OS MAPS

Historical Mapping Legends

Ordnance Survey County Series 1:10,560

	Gravel Pit		Sand Pit		Other Pits
	Quarry		Shingle		Orchard
	Osiers		Reeds		Marsh
	Mixed Wood		Deciduous		Brushwood
	Fir		Furze		Rough Pasture
	Arrow denotes flow of water		Trigonometrical Station		
	Site of Antiquities		Bench Mark		
	Pump, Guide Post, Signal Post		Well, Spring, Boundary Post		
	•285 Surface Level				
	Sketched Contour		Instrumental Contour		
	Main Roads		Minor Roads		
	Sunken Road		Raised Road		
	Road over Railway		Railway over River		
	Railway over Road		Level Crossing		
	Road over River or Canal		Road over Stream		
	Road over Stream				
	County Boundary (Geographical)				
	County & Civil Parish Boundary				
	Administrative County & Civil Parish Boundary				
	County Borough Boundary (England)				
	County Burgh Boundary (Scotland)				
	Rural District Boundary				
	Civil Parish Boundary				

Ordnance Survey Plan 1:10,000

	Chalk Pit, Clay Pit or Quarry		Gravel Pit
	Sand Pit		Disused Pit or Quarry
	Refuse or Slag Heap		Lake, Loch or Pond
	Dunes		Boulders
	Coniferous Trees		Non-Coniferous Trees
	Orchard		Scrub
	Bracken		Heath
	Marsh		Reeds
	Building		Glasshouse
	Sloping Masonry		Pylon
	Cutting		Embankment
	Road Under		Road Over
	Level Crossing		Foot Bridge
	Standard Gauge Multiple Track		Standard Gauge Single Track
	Siding, Tramway or Mineral Line		Narrow Gauge
	Geographical County		Administrative County, County Borough or County of City
	Municipal Borough, Urban or Rural District, Burgh or District Council		Borough, Burgh or County Constituency
	Civil Parish		
	BP, BS Boundary Post or Stone		Police Station
	Church		Post Office
	Club House		Public Convenience
	Fire Engine Station		Public House
	Foot Bridge		Signal Box
	Fountain		Spring
	Guide Post		Telephone Call Box
	Mile Post		Telephone Call Post
	Mile Stone		Well

1:10,000 Raster Mapping

	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil, parish or community boundary
	District, Unitary, Metropolitan, London Borough boundary		Constituency boundary
	Area of wooded vegetation		Non-coniferous trees
	Non-coniferous trees (scattered)		Coniferous trees
	Coniferous trees (scattered)		Positioned tree
	Orchard		Coppice or Osiers
	Rough Grassland		Heath
	Scrub		Marsh, Salt Marsh or Reeds
	Water feature		Flow arrows
	Mean high water (springs)		Mean low water (springs)
	Telephone line (where shown)		Electricity transmission line (with poles)
	Bench mark (where shown)		Triangulation station
	Point feature (e.g. Guide Post or Mile Stone)		Pylon, flare stack or lighting tower
	Site of (antiquity)		Glasshouse
	General Building		Important Building

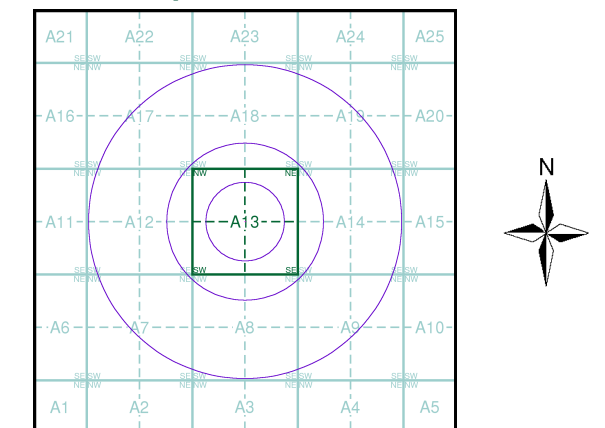
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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1850	3
Lancashire And Furness	1:10,560	1894	4
Lancashire And Furness	1:10,560	1909	5
Lancashire And Furness	1:10,560	1928	6
Lancashire And Furness	1:10,560	1928	7
Lancashire And Furness	1:10,560	1938	8
Ordnance Survey Plan	1:10,000	1956	9
Ordnance Survey Plan	1:10,000	1956	10
Ordnance Survey Plan	1:10,000	1966 - 1967	11
Ordnance Survey Plan	1:10,000	1974 - 1978	12
Liverpool	1:10,000	1974	13
Ordnance Survey Plan	1:10,000	1988	14
Ordnance Survey Plan	1:10,000	1990	15
10K Raster Mapping	1:10,000	1999	16
10K Raster Mapping	1:10,000	2006	17
VectorMap Local	1:10,000	2024	18

Historical Map - Slice A



Order Details

Order Number: 377524233_1_1
Customer Ref: ZZ25061
National Grid Reference: 339420, 398120
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

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Russian Military Mapping Legends

1:5,000 and 1:10,000 mapping

a. Not drawn to scale b. Drawn to scale

Government and Administrative Buildings Military and Industrial Buildings

Military and Communication Areas Subway Entrance

Fireproof Building Prominent Fireproof Building

Non-fireproof Building Non-fireproof Building (non-dwelling)

Factory, mill, and flour mill, with chimneys Factory, mill, and flour mill, without chimneys

Power Station, drawn to scale Hydroelectric Power Station

Radio Station, drawn to scale Telephone Station, drawn to scale

Abandoned Open-pit Mine or Quarry Open-pit Salt Mine

Pit Oil Deposit or Well Oil Seepage

Tailings Pile Fuel Storage Tanks Natural Gas Tank

Bench Mark Drill Hole Burial Mound Triangulation Point on Burial Mound

Single-track Railroad Double-track Railroad and Station Building

Coniferous Forest Deciduous Forest Mixed Forest

Lawns Citrus Orchard Wet Ground Scattered Vegetation

243.8 Values for prominent elevations

186.0 Numbers for spot elevations, depth soundings, contour lines, etc.

0.2 Velocity of the current, width of river bed, depth of river

180/12 Fractional terms: length and capacity of bridges; depth of fords and condition of the river bottom; height of forest and the diameter of trees

Russian Alphabet (For reference and phonetic interpretation of map text)

А а (A) З з (Z) П п (P) Ч ч (CH)

Б б (B) И и (I) Р р (R) Ш ш (SH)

В в (V) Й й (Y) С с (S) Щ щ (SHCH)

Г г (G) К к (K) Т т (T) Ъ ъ (-)

Д д (D) Л л (L) У у (U) Ы ы (Y)

Е е (E) М м (M) Ф ф (F) Ь ь (')

Ё ё (YO) Н н (N) Х х (KH) Э э (E)

Ж ж (ZH) О о (O) Ц ц (TS) Ю ю (YU or IU)

Я я (YA or IA)

1:25,000 mapping

a. Not drawn to scale b. Drawn to scale

Government and Administrative Buildings Military and Industrial Buildings

Military and Communication Areas Subway Entrance

Partly Demolished Buildings Demolished Buildings

Built-Up Area with Fireproof Buildings Predominant Built-Up Area with Non-Fireproof Buildings Predominant

Individual Fireproof Building Prominent Industrial Building

Individual Dwelling, Fireproof Ruins of an Individual Dwelling

Factory or Mill Chimney Factory or Mill with Chimney Factory or Mill without Chimney Mine or Open Pit Mine

Operating Shaft or Mine Non-Operating Shaft or Mine Salt Mine Tailings Pile

Pit Stone Quarry Gas Pump or Service Station Fuel Storage or Natural Gas Tank

Oil or Natural Gas Derrick Small Hydroelectric Power Station Power Station Transformer Station

Cemetery Burial Mound (height in metres) Triangulation Point on Burial Mound Triangulation Point

Bench Mark Bench Mark (monumented) Telegraph Office Telephone Station

Radio Station Radio Tower Airfield or Seaplane Base Landing Strip

Telegraph/Telephone Lines Main Highway Highway under Construction Improved Dirt Road (former truck road)

Double-track Railroad with First Class Station Dismantled Railroad Railroad Under Construction

Shore Embankment River or Ditch with Embankment Water Gauge Water Level Mark

Well Water Reservoir or Rain Water Pit Spring Isobath with value

Heavy (Index) Contour Line Contour Line and Value Half Contour Line Spot Elevation Value

Coniferous Deciduous Mixed Scrub

Key to Numbers on Mapping

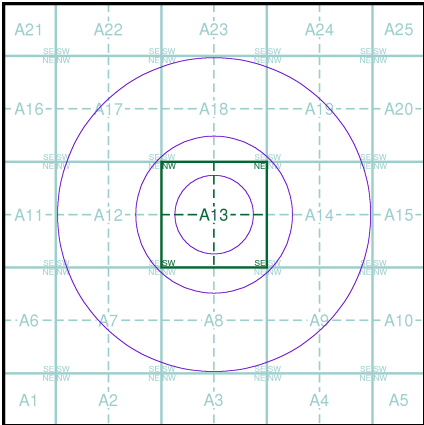
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Historical Mapping & Photography included:

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Lancashire And Furness	1:10,560	1894	4
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10K Raster Mapping	1:10,000	1999	16
10K Raster Mapping	1:10,000	2006	17
VectorMap Local	1:10,000	2024	18

Russian Map - Slice A



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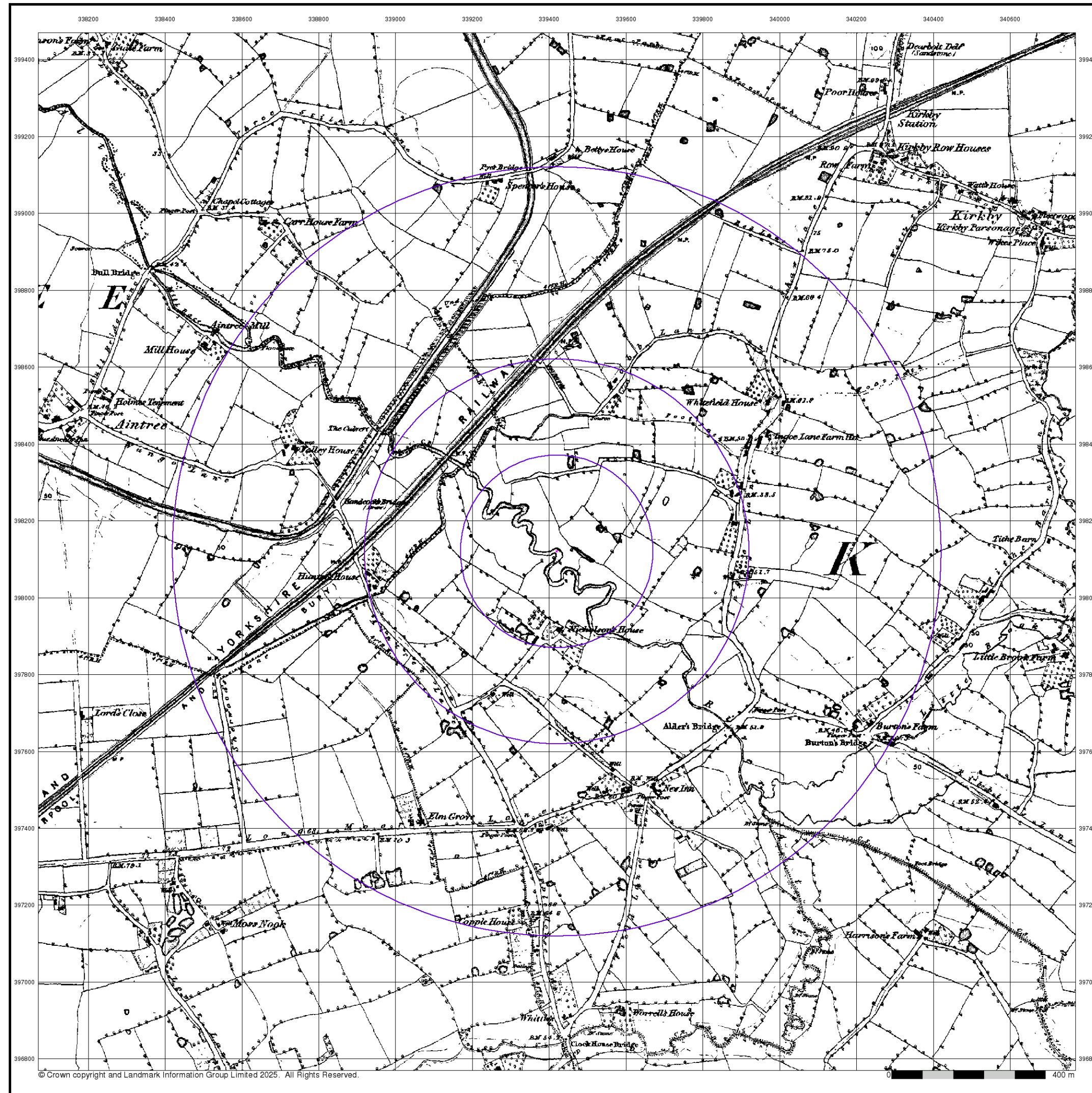
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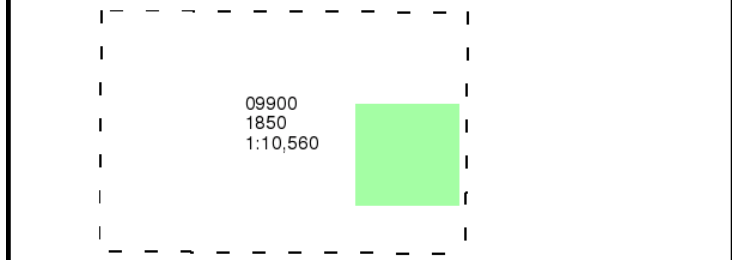
Lancashire And Furness

Published 1850

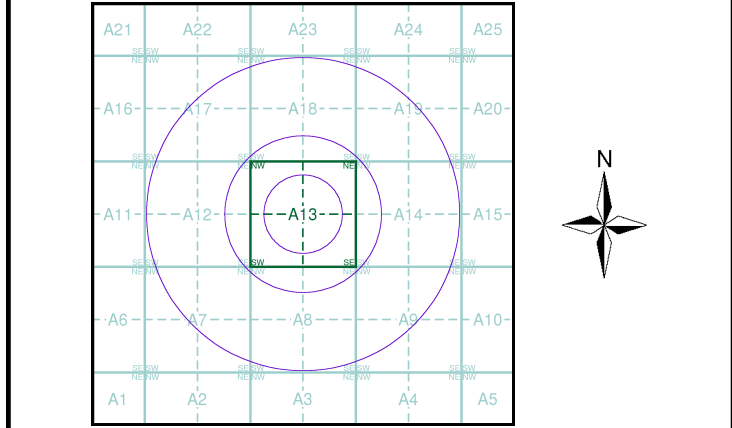
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Map Name(s) and Date(s)



Historical Map - Slice A

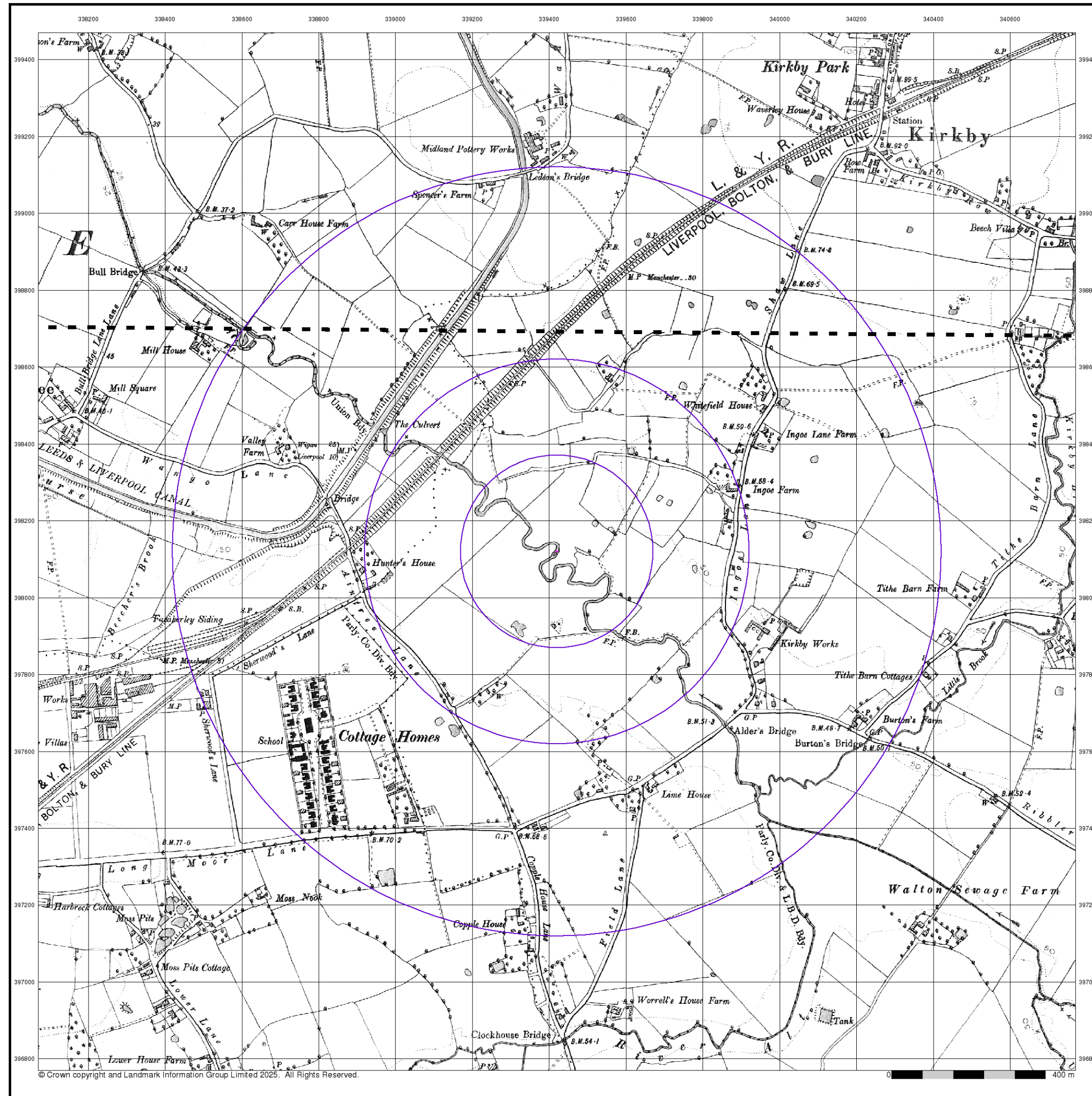


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Lancashire And Furness

Published 1894

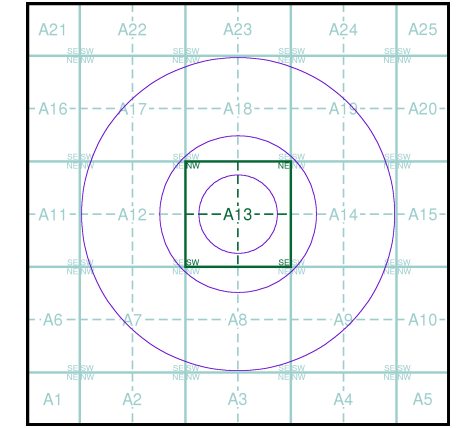
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Map Name(s) and Date(s)

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1:10,560
099SE
1894
1:10,560

Historical Map - Slice A

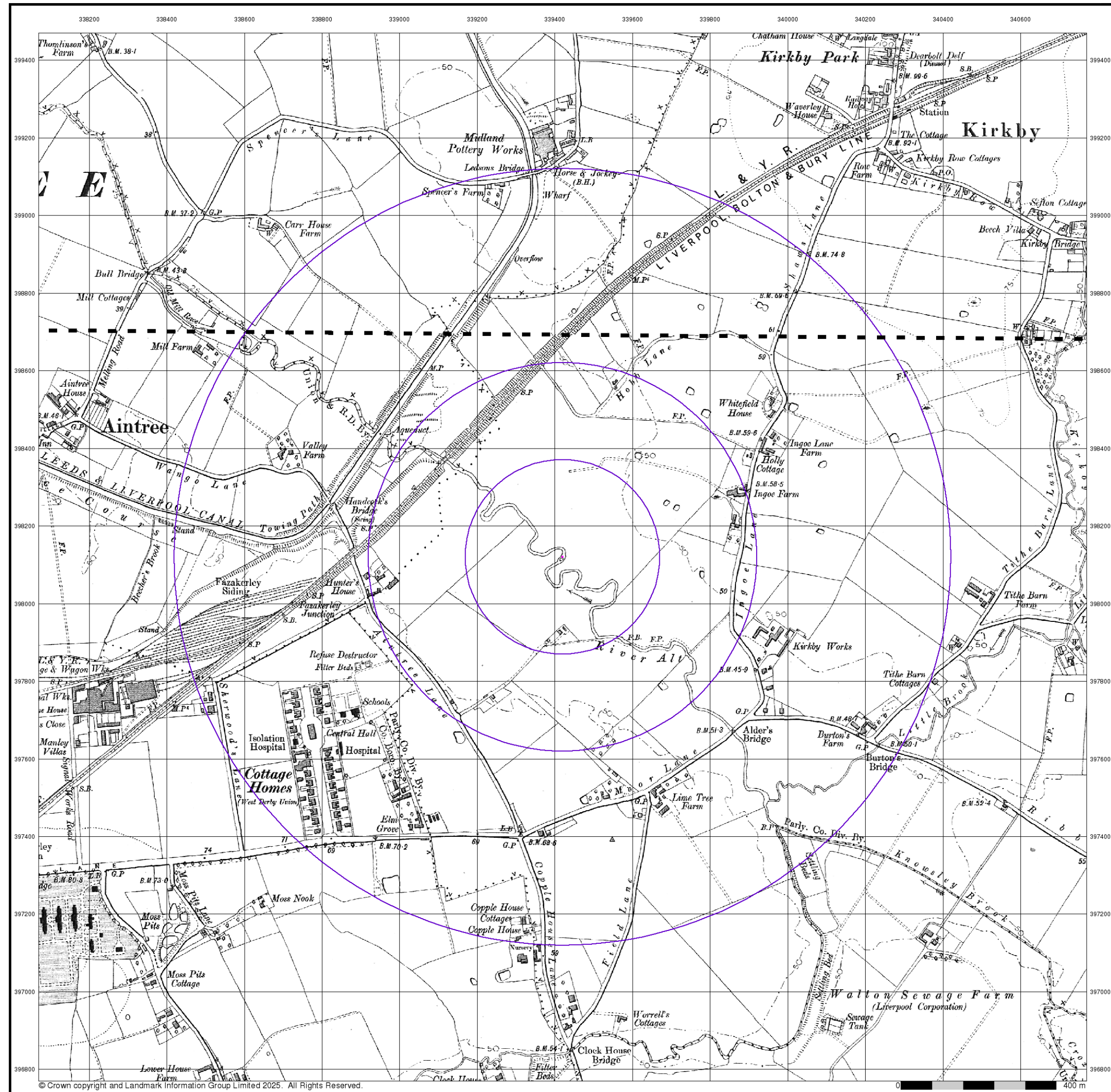


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Site Details

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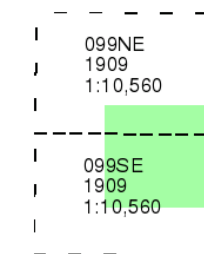
Lancashire And Furness

Published 1909

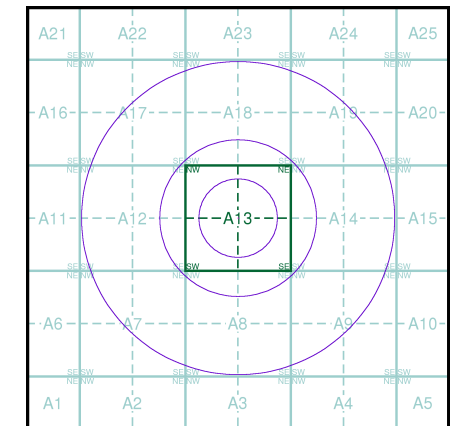
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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

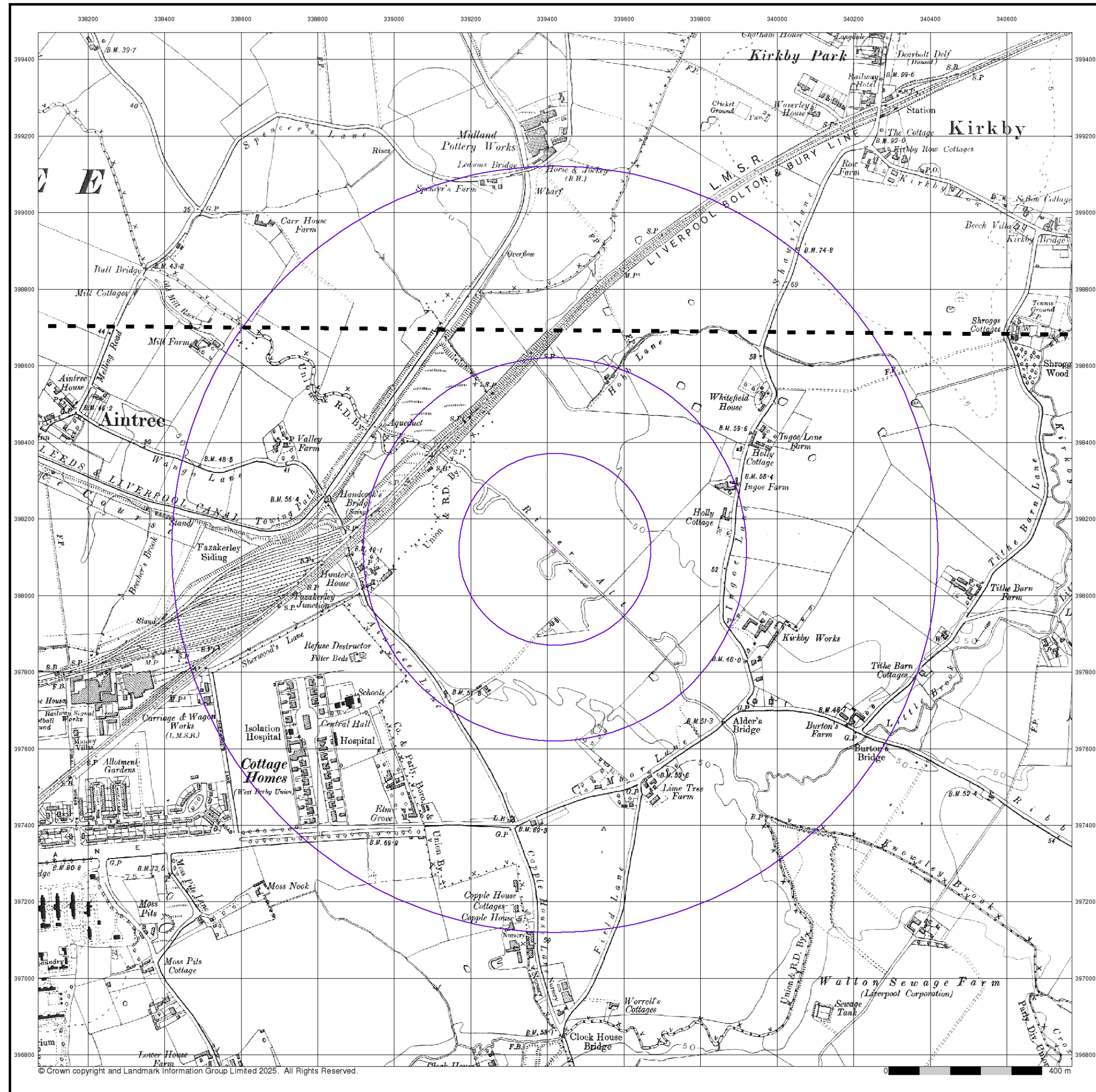
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Lancashire And Furness

Published 1928

Source map scale - 1:10,560

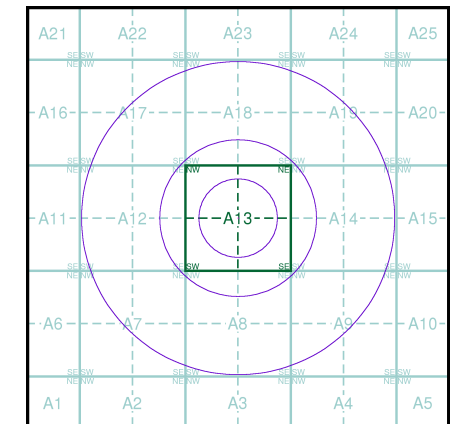
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Map Name(s) and Date(s)

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1:10,560

099SE
1928
1:10,560

Historical Map - Slice A



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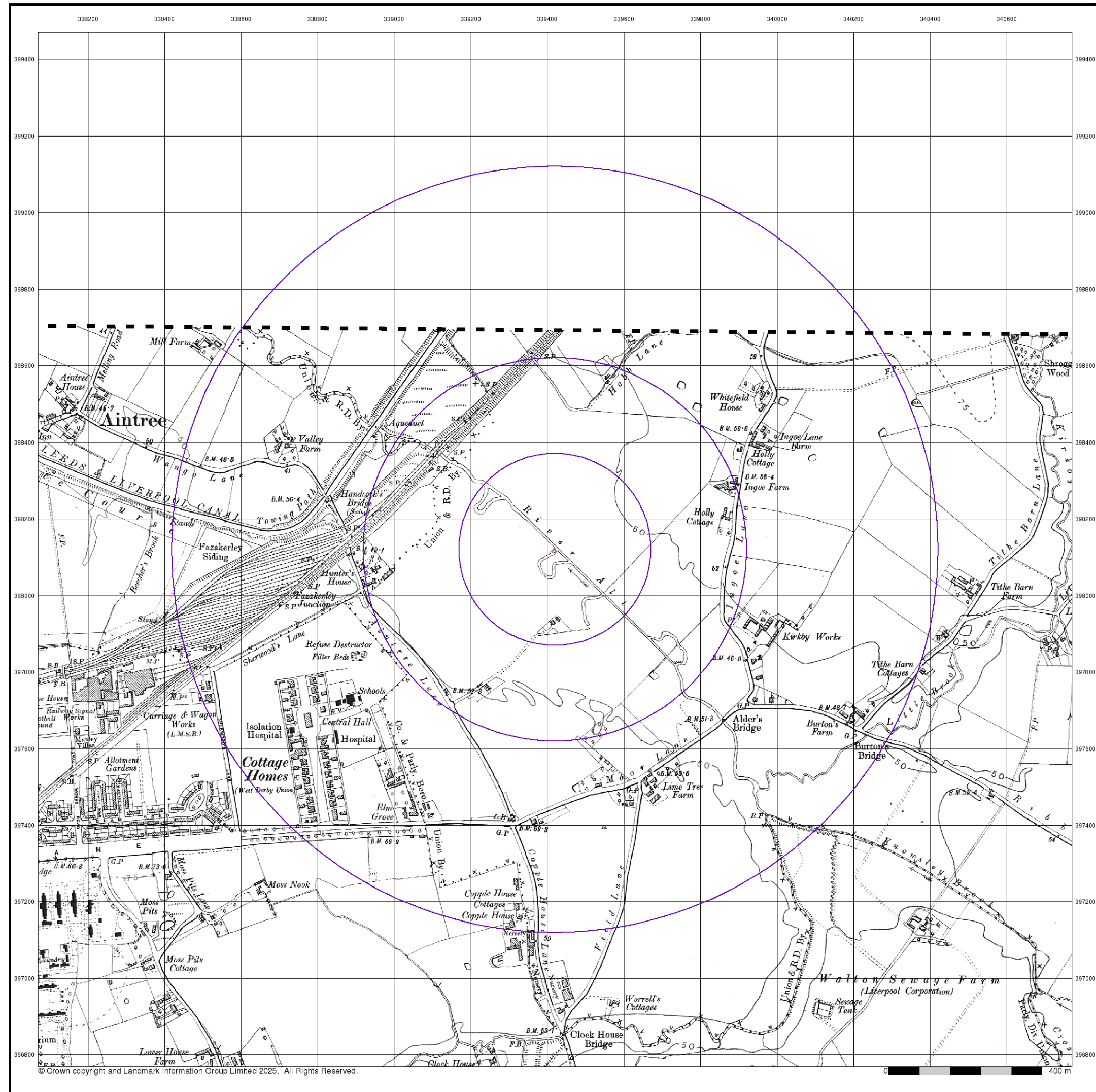
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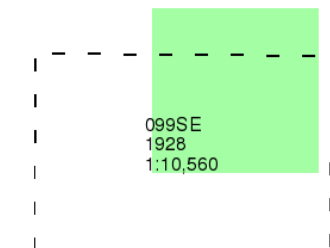
Lancashire And Furness

Published 1928

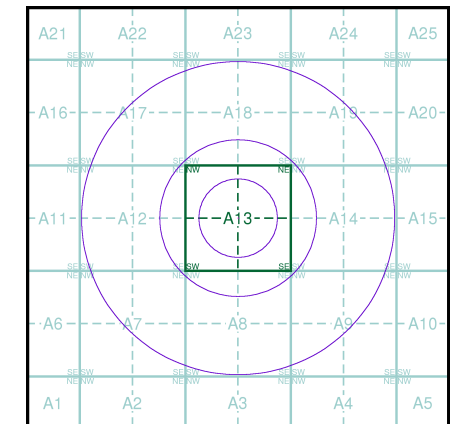
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A

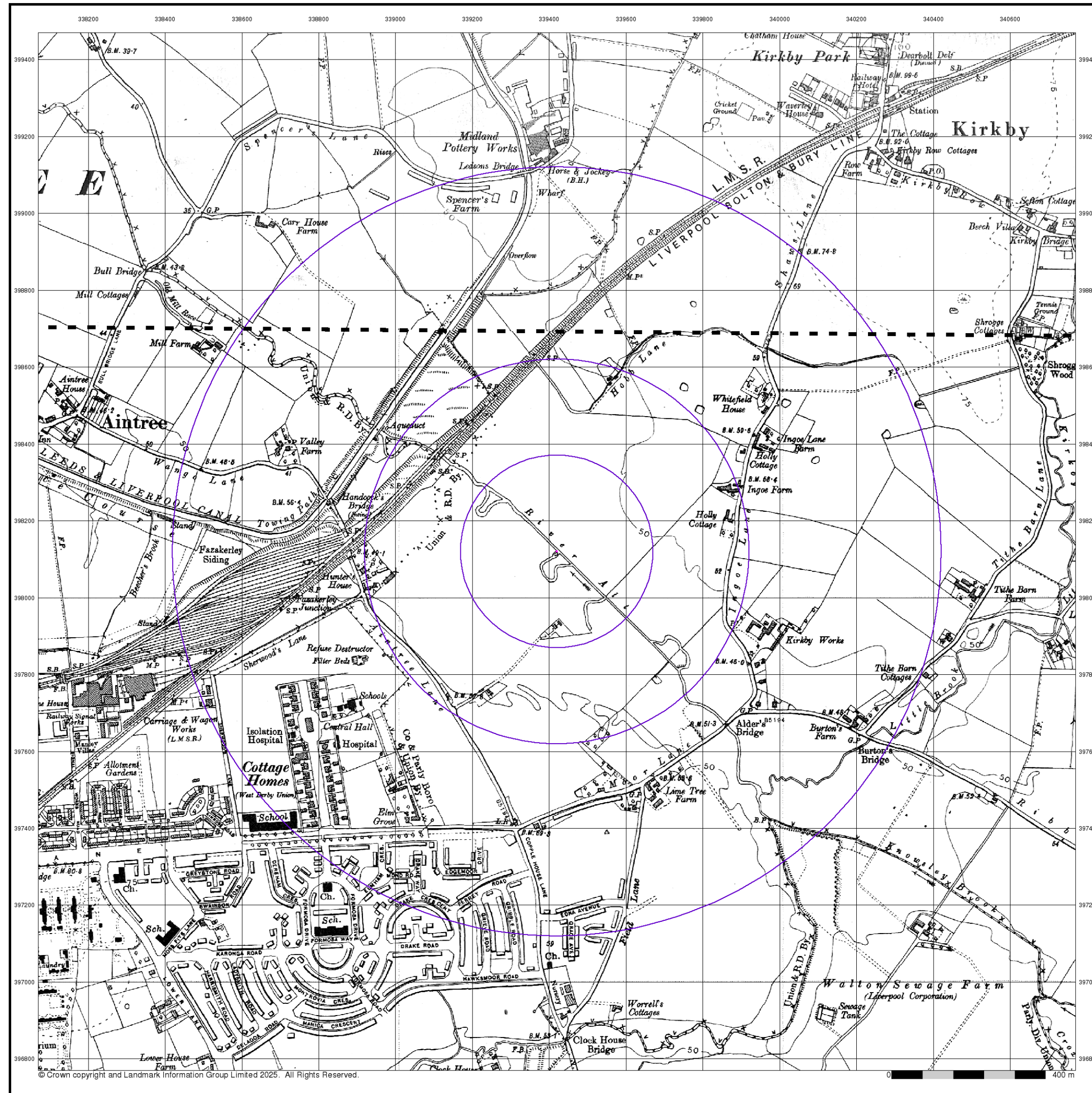


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Search Buffer (m): 1000

Site Details

Kirkby Golf Club, Ingoo Lane, LIVERPOOL, L32 4SS



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Lancashire And Furness

Published 1938

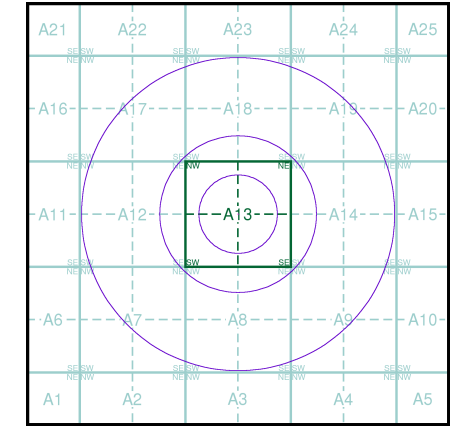
Source map scale - 1:10,560

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Map Name(s) and Date(s)

099NE
1938
1:10,560
099SE
1938
1:10,560

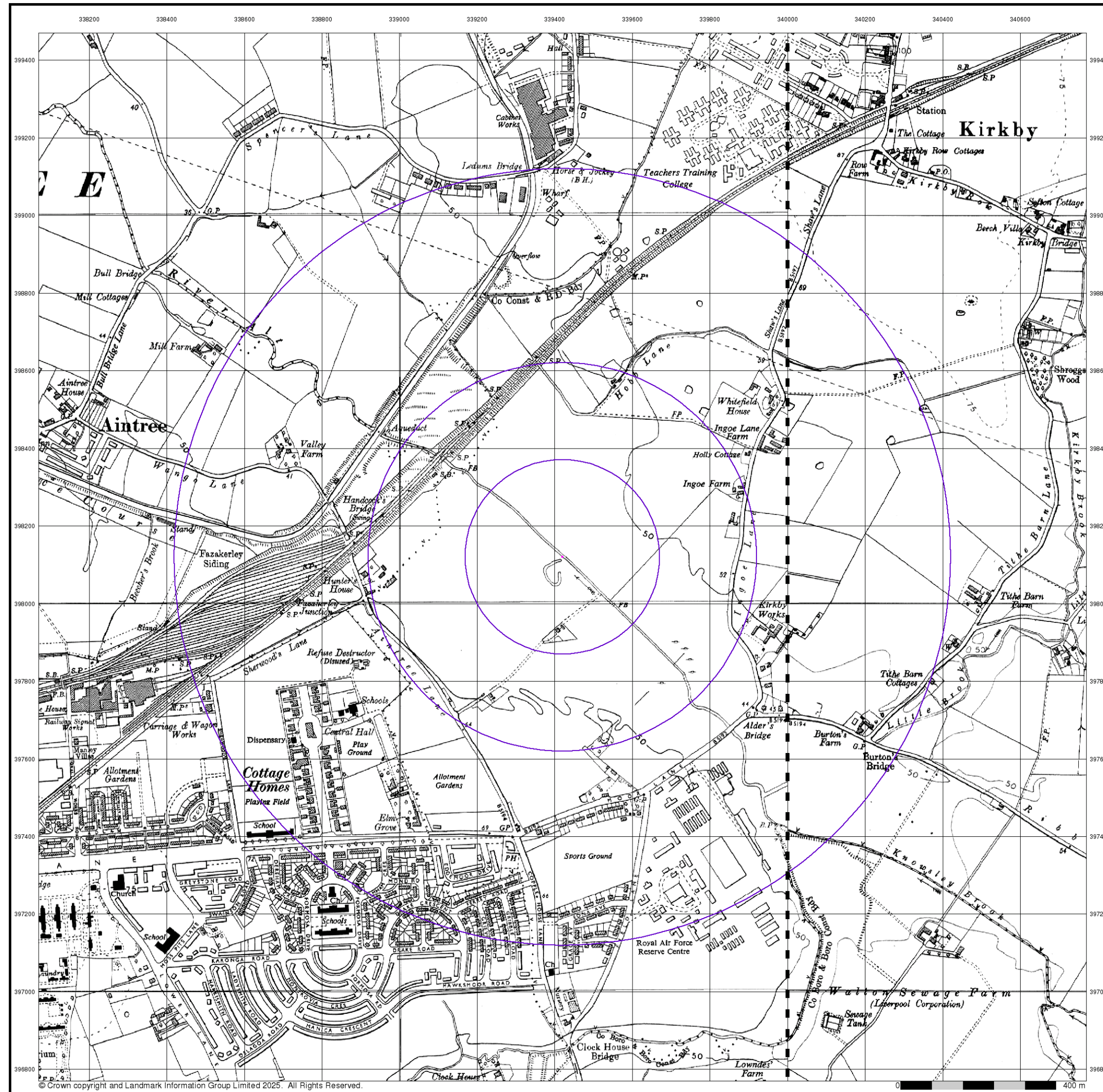
Historical Map - Slice A



Order Details	
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Site Details

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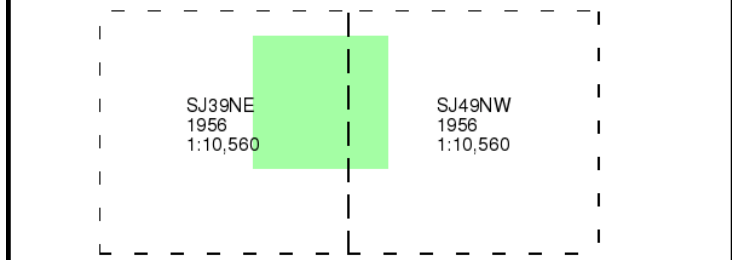
Ordnance Survey Plan

Published 1956

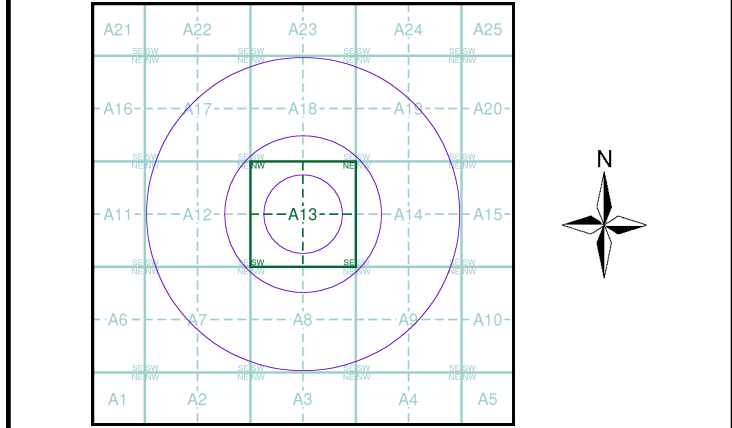
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Map Name(s) and Date(s)



Historical Map - Slice A



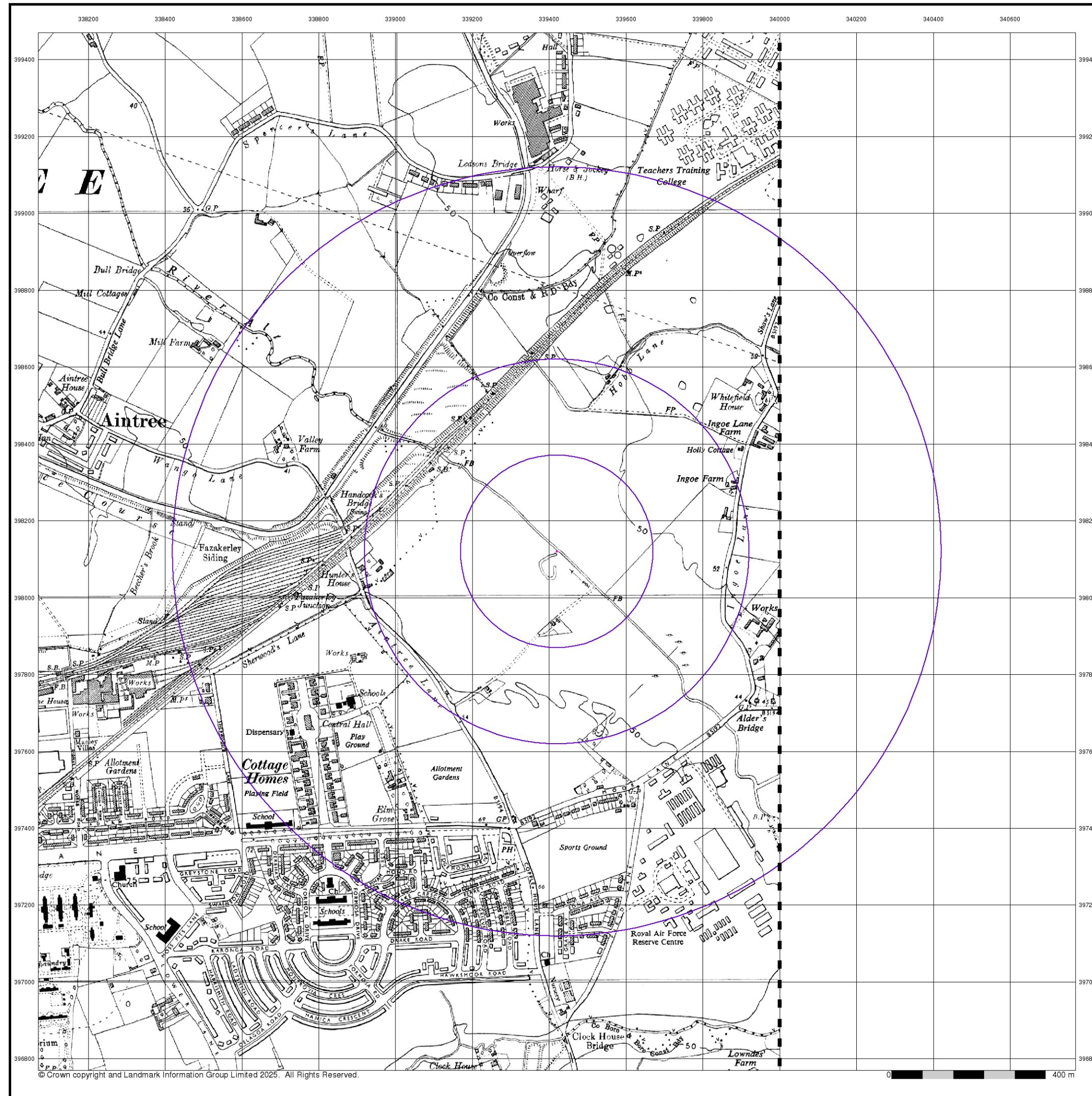
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Site Details

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0 400 m

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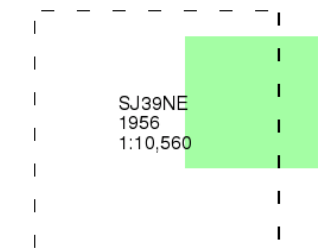
Ordnance Survey Plan

Published 1956

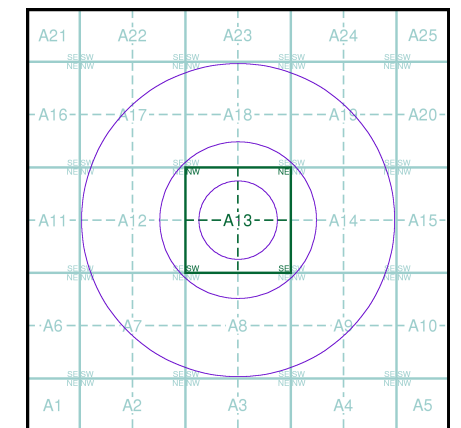
Source map scale - 1:10,000

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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

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Slice: A
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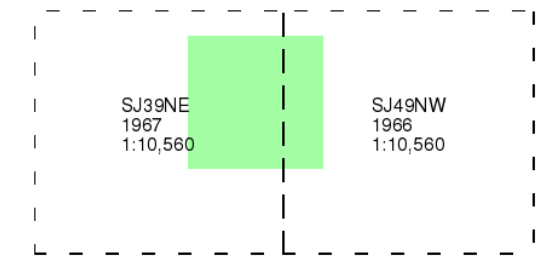
Ordnance Survey Plan

Published 1966 - 1967

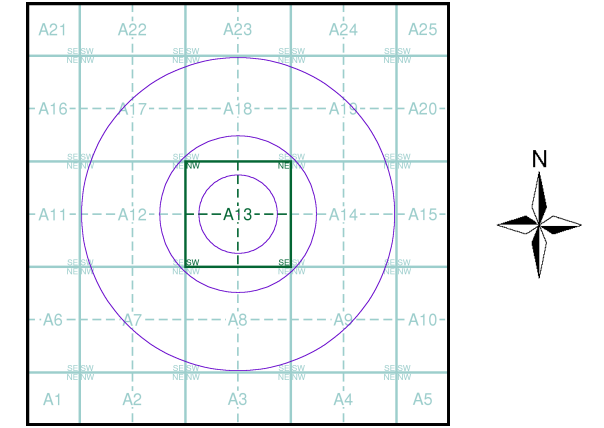
Source map scale - 1:10,000

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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 377524233_1_1
Customer Ref: ZZ25061
National Grid Reference: 339420, 398120
Slice: A
Site Area (Ha): 0.01
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Site Details

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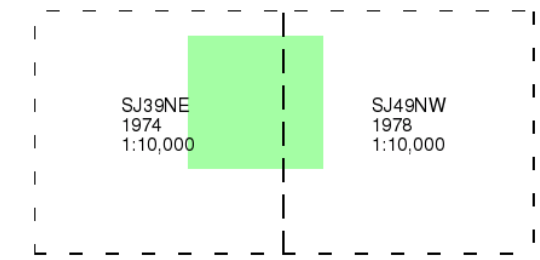
Ordnance Survey Plan

Published 1974 - 1978

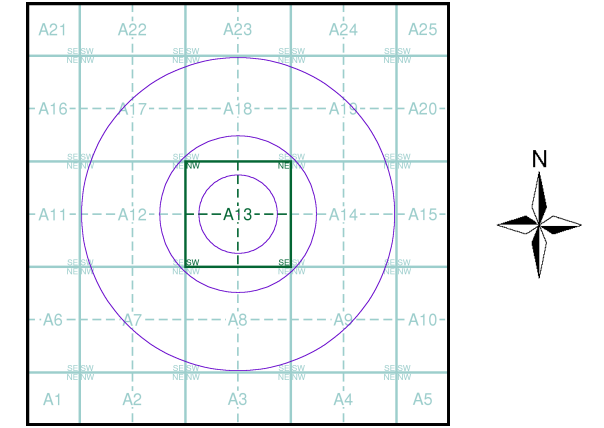
Source map scale - 1:10,000

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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 377524233_1_1
Customer Ref: ZZ25061
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Slice: A
Site Area (Ha): 0.01
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Site Details

Kirkby Golf Club, Ingoe Lane, LIVERPOOL, L32 4SS



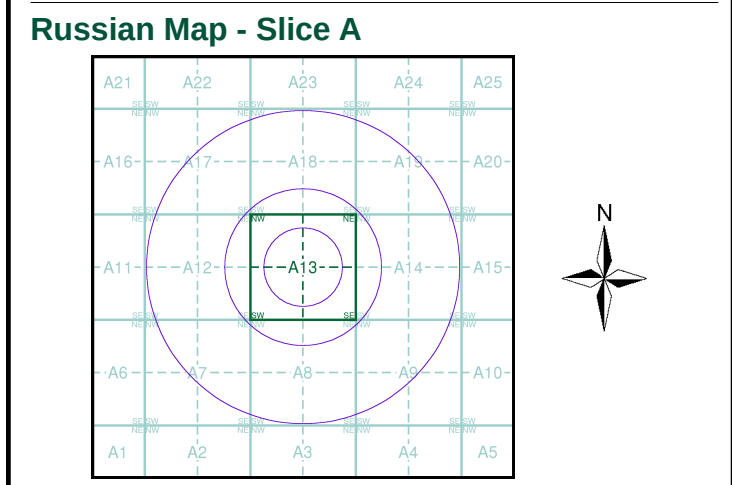
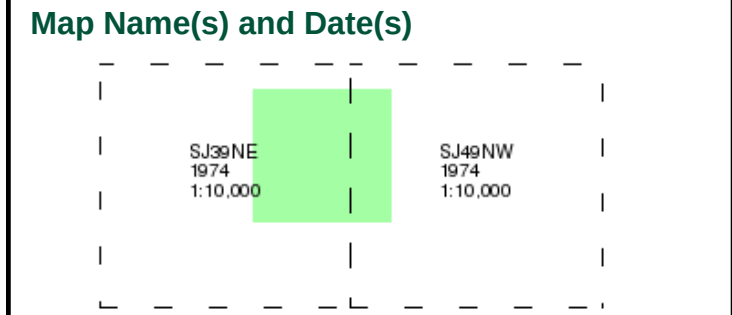
Liverpool

Published 1974

Source map scale - 1:10,000

These maps were produced by the Russian military during the Cold War between 1950 and 1997, and cover 103 towns and cities throughout the U.K. The maps are produced at 1:25,000, 1:10,000 and 1:5,000 scale, and show detailed land use, with colour-coded areas for development, green areas, and non-developed areas. Buildings are coloured black and important building uses (such as hospitals, post offices, factories etc.) are numbered, with a numbered key describing their use.

They were produced by the Russians for the benefit of navigation, as well as strategic military sites and transport hubs, for use if they were to have invaded the U.K. The detailed information provided indicates that the areas were surveyed using land-based personnel, on the ground, in the cities that are mapped.



Order Details

Order Number:

377524233_1_1

Customer Ref:

ZZ25061

National Grid Reference:

339420, 398120

Slice:

A

Site Area (Ha):

0.01

Search Buffer (m):

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Site Details

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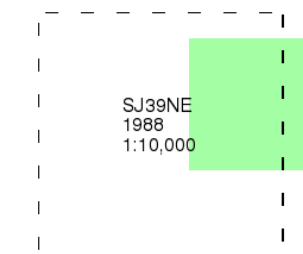
Ordnance Survey Plan

Published 1988

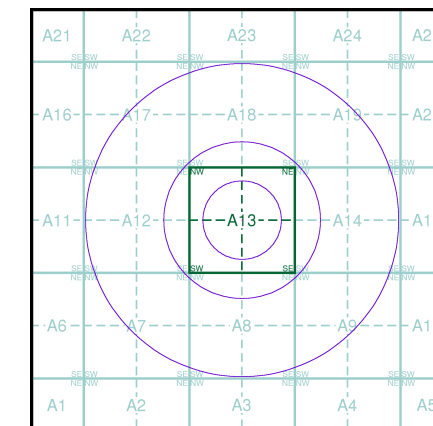
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 377524233_1_1
Customer Ref: ZZ25061
National Grid Reference: 339420, 398120
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

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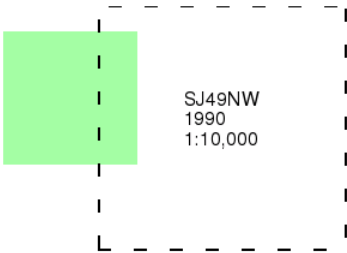
Ordnance Survey Plan

Published 1990

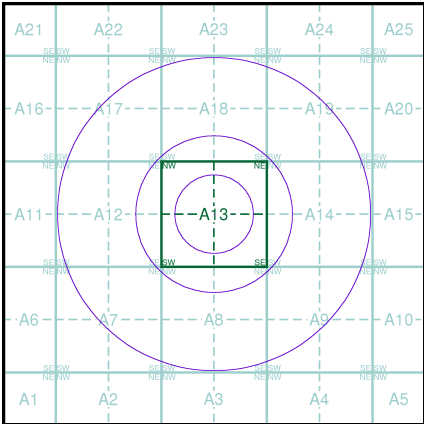
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Map Name(s) and Date(s)



Historical Map - Slice A



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National Grid Reference: 339420, 398120

Slice: A

Site Area (Ha): 0.01

Search Buffer (m): 1000

Site Details

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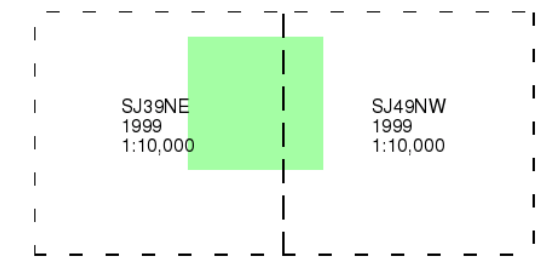
10k Raster Mapping

Published 1999

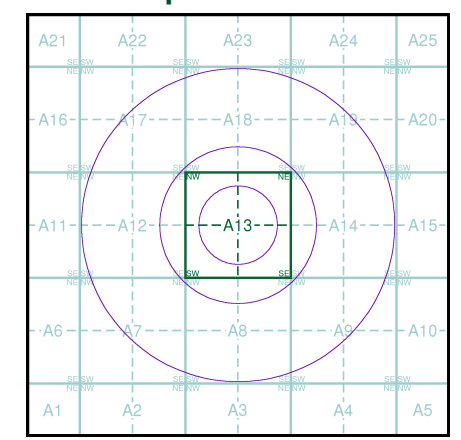
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 377524233_1_1
Customer Ref: ZZ25061
National Grid Reference: 339420, 398120
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

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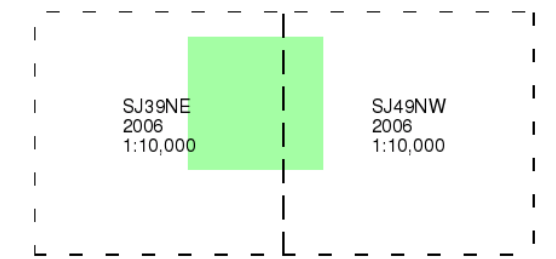
10k Raster Mapping

Published 2006

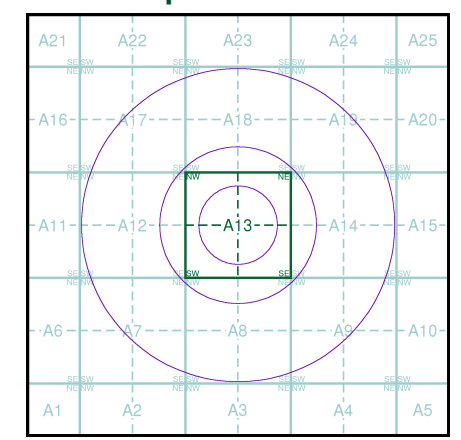
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Map Name(s) and Date(s)



Historical Map - Slice A



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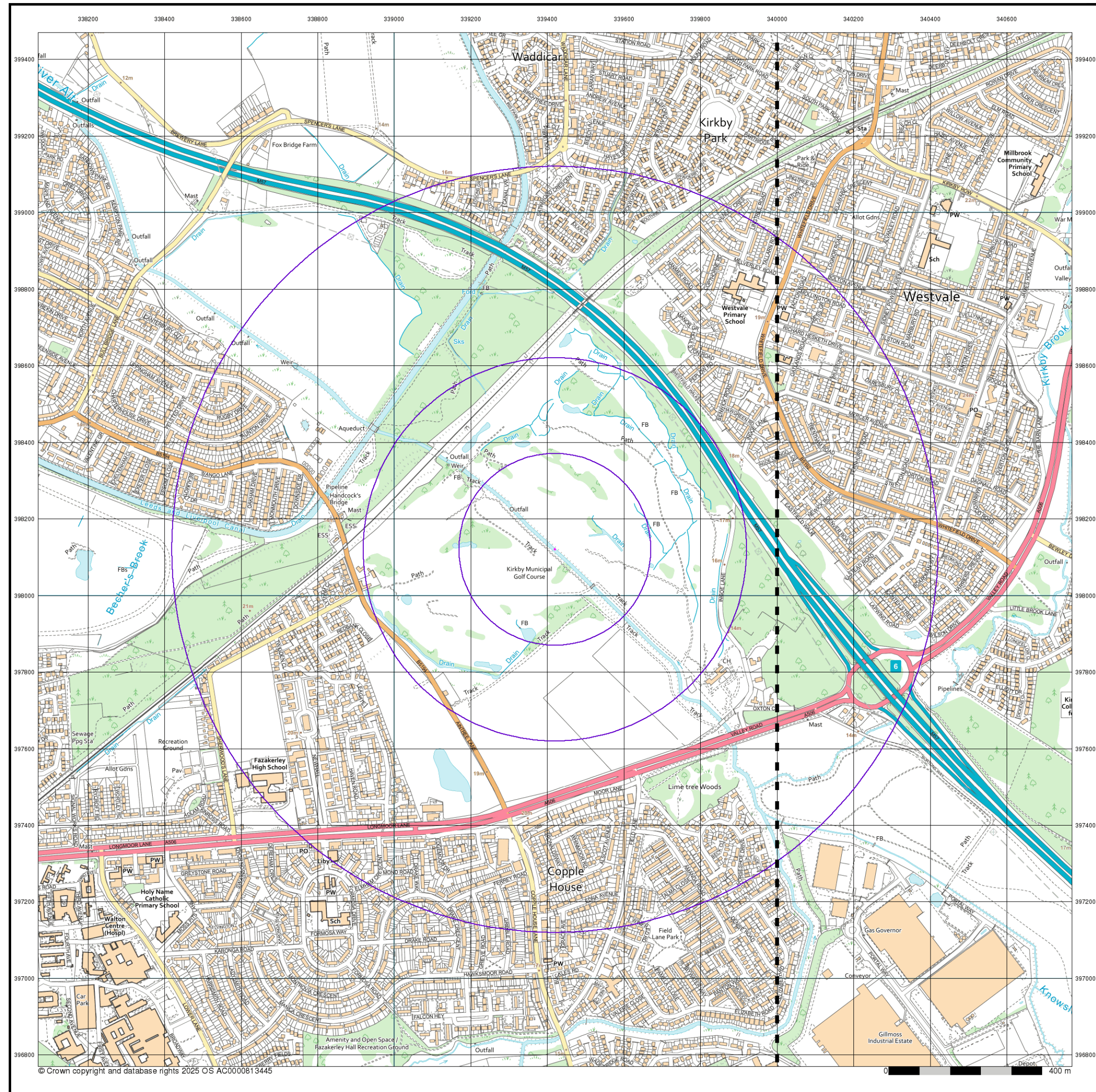
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VectorMap Local

Published 2024

Source map scale - 1:10,000

VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap Local is derived from large-scale information surveyed at 1:1250 scale (covering major towns and cities), 1:2500 scale (smaller towns, villages and developed rural areas), and 1:10 000 scale (mountain, moorland and river estuary areas).

Map Name(s) and Date(s)

SJ39NE 2024 Variable	SJ49NW 2024 Variable
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Historical Map - Slice A

Order Details

Order Number:	377524233_1_1
Customer Ref:	ZZ25061
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Site Details

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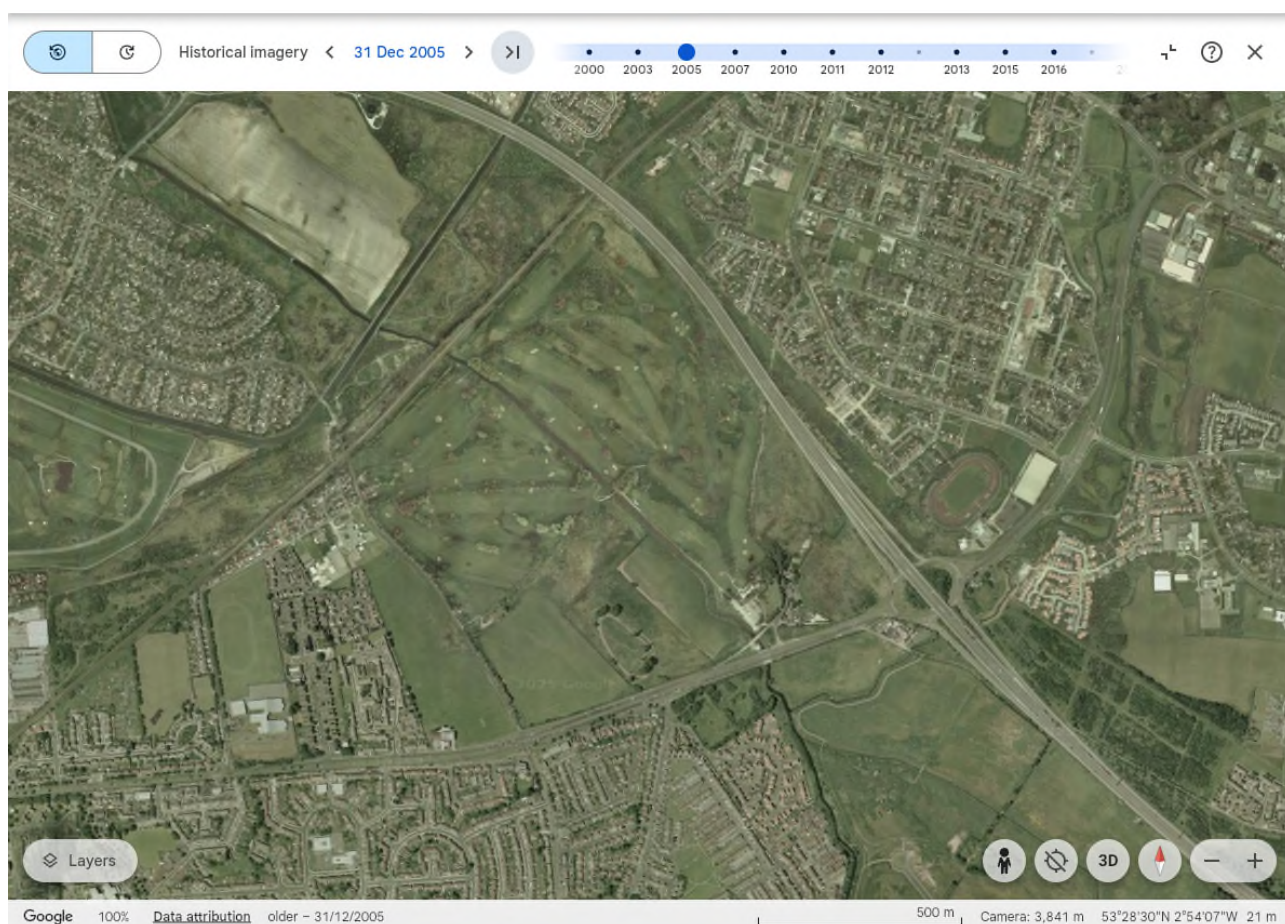
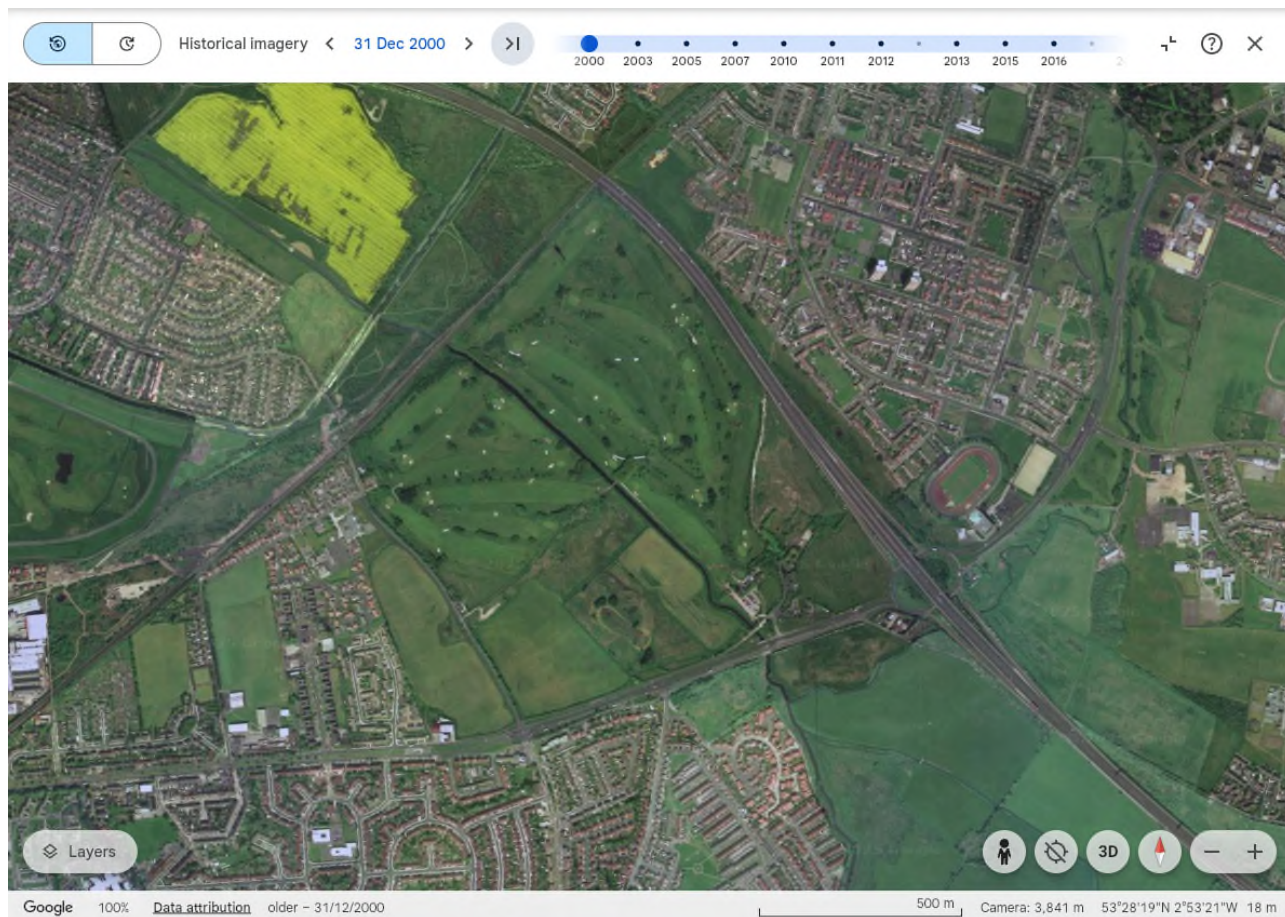
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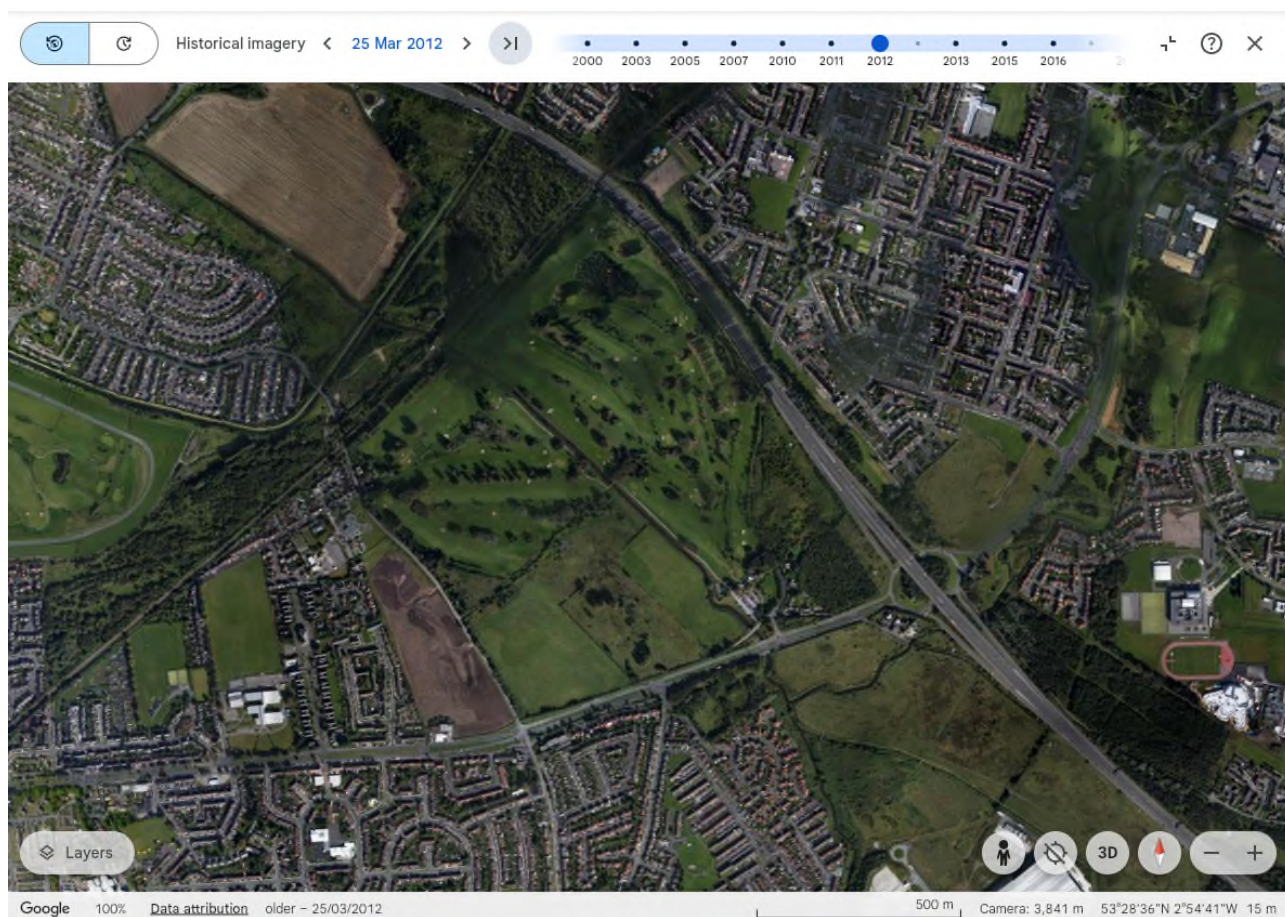
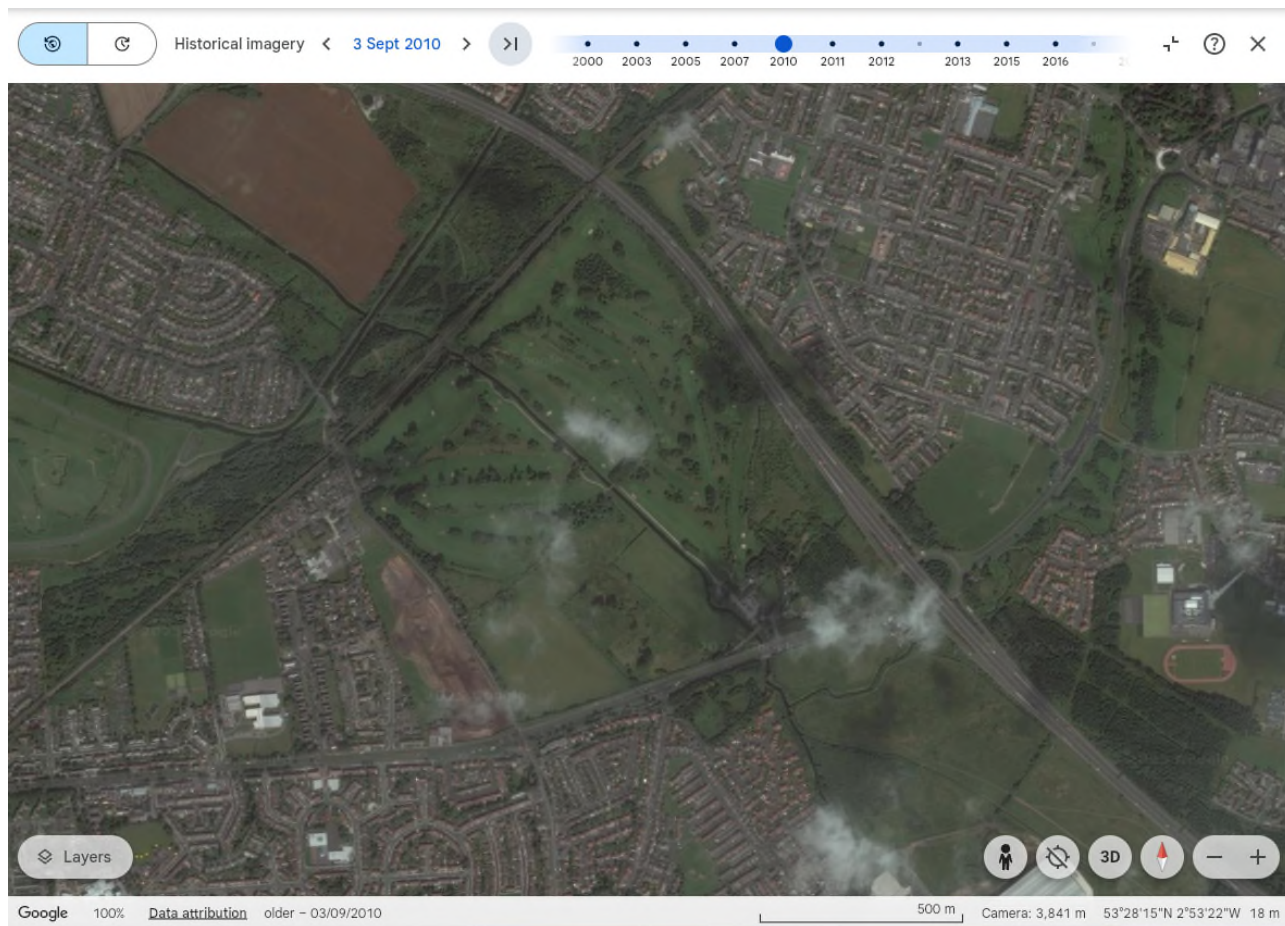
A Landmark Information Group Service v50.0 23-May-2025 Page 18 of 18

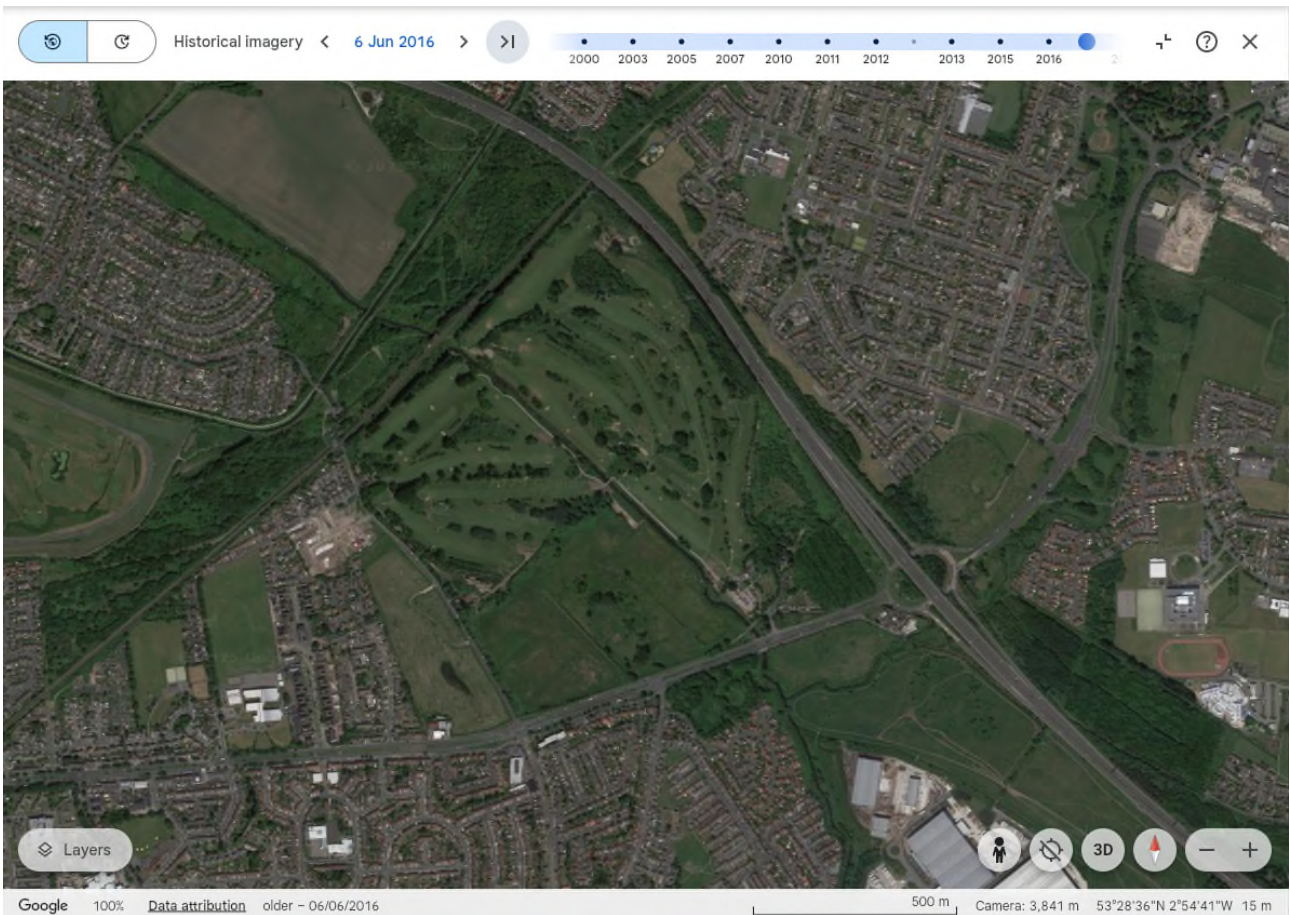
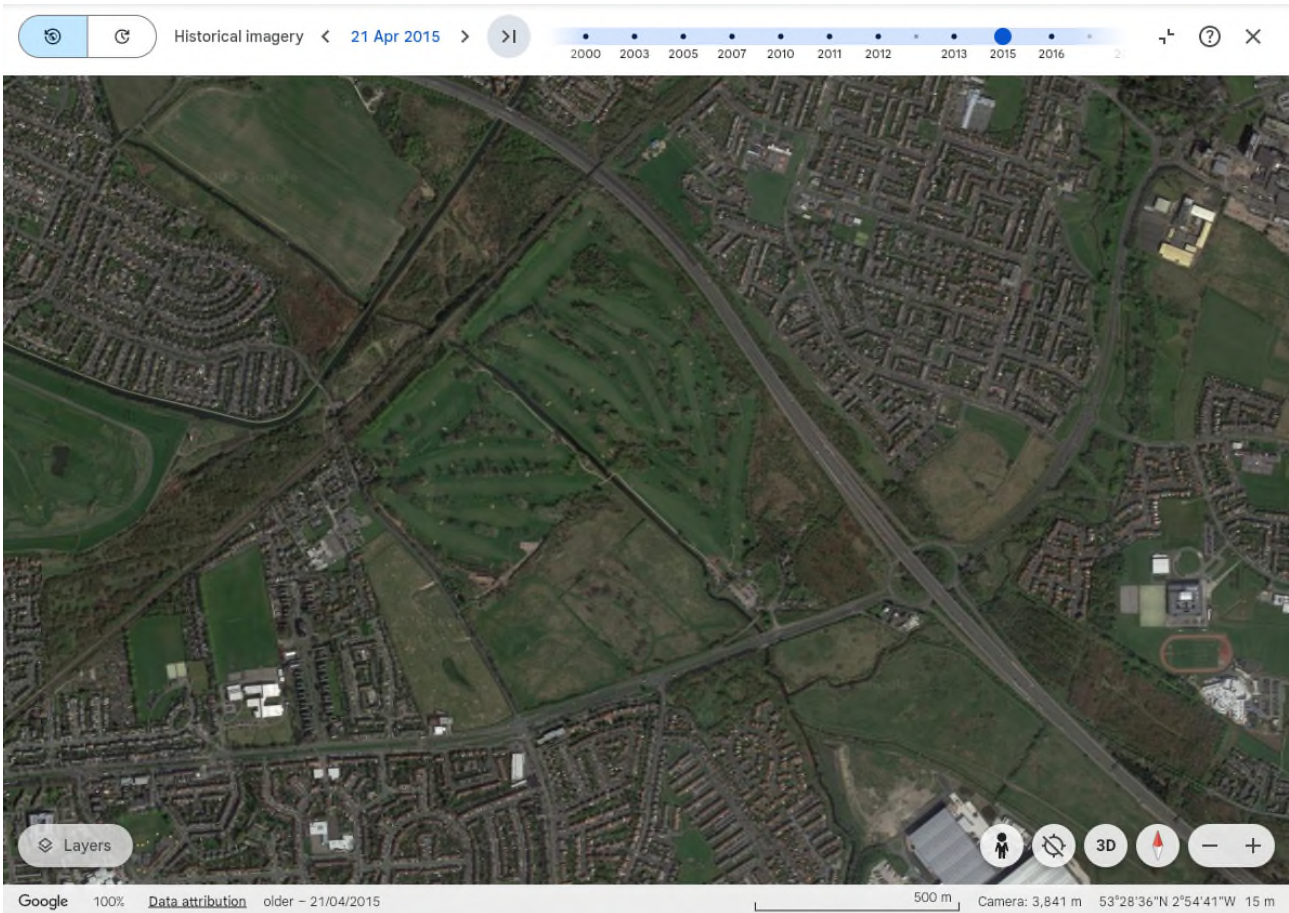


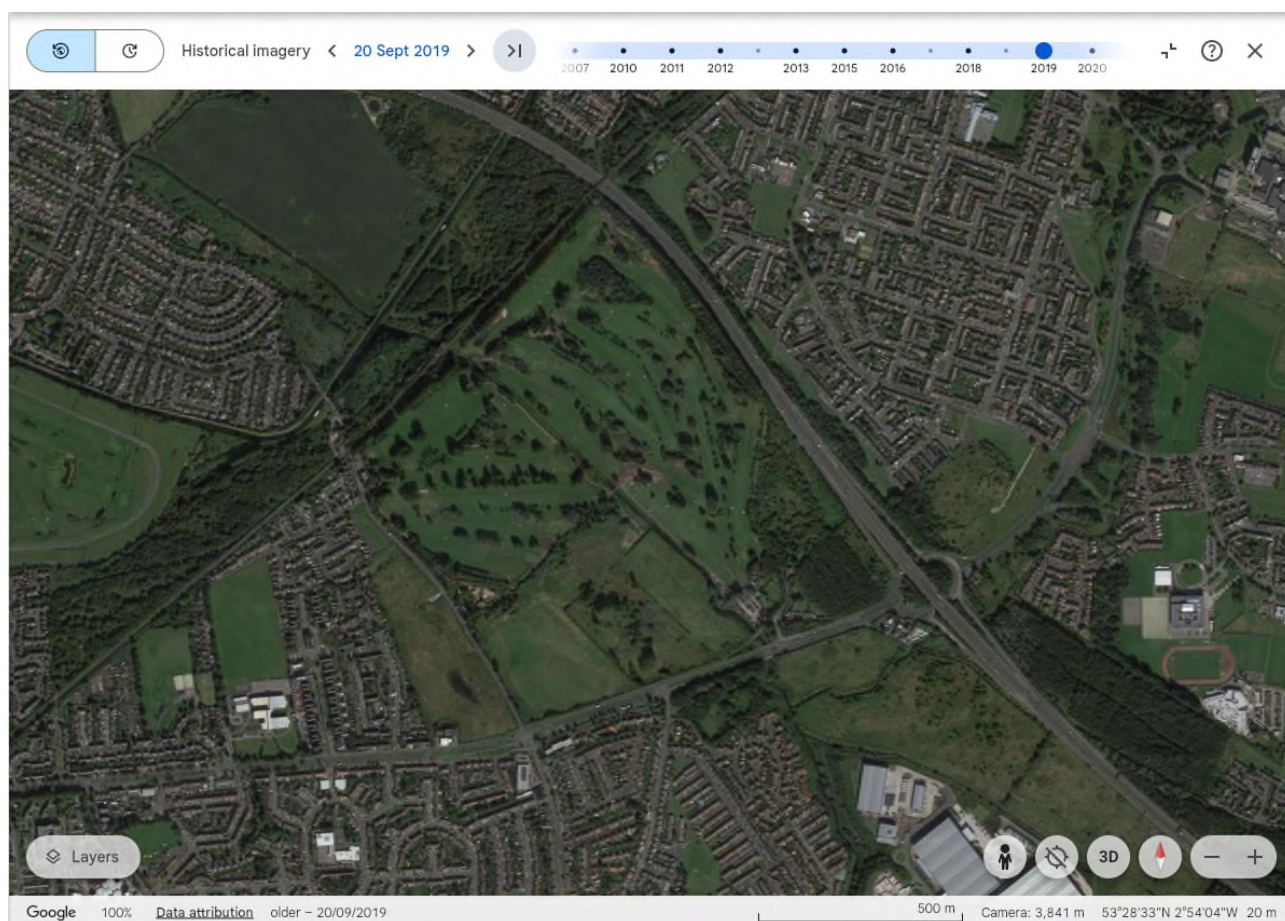
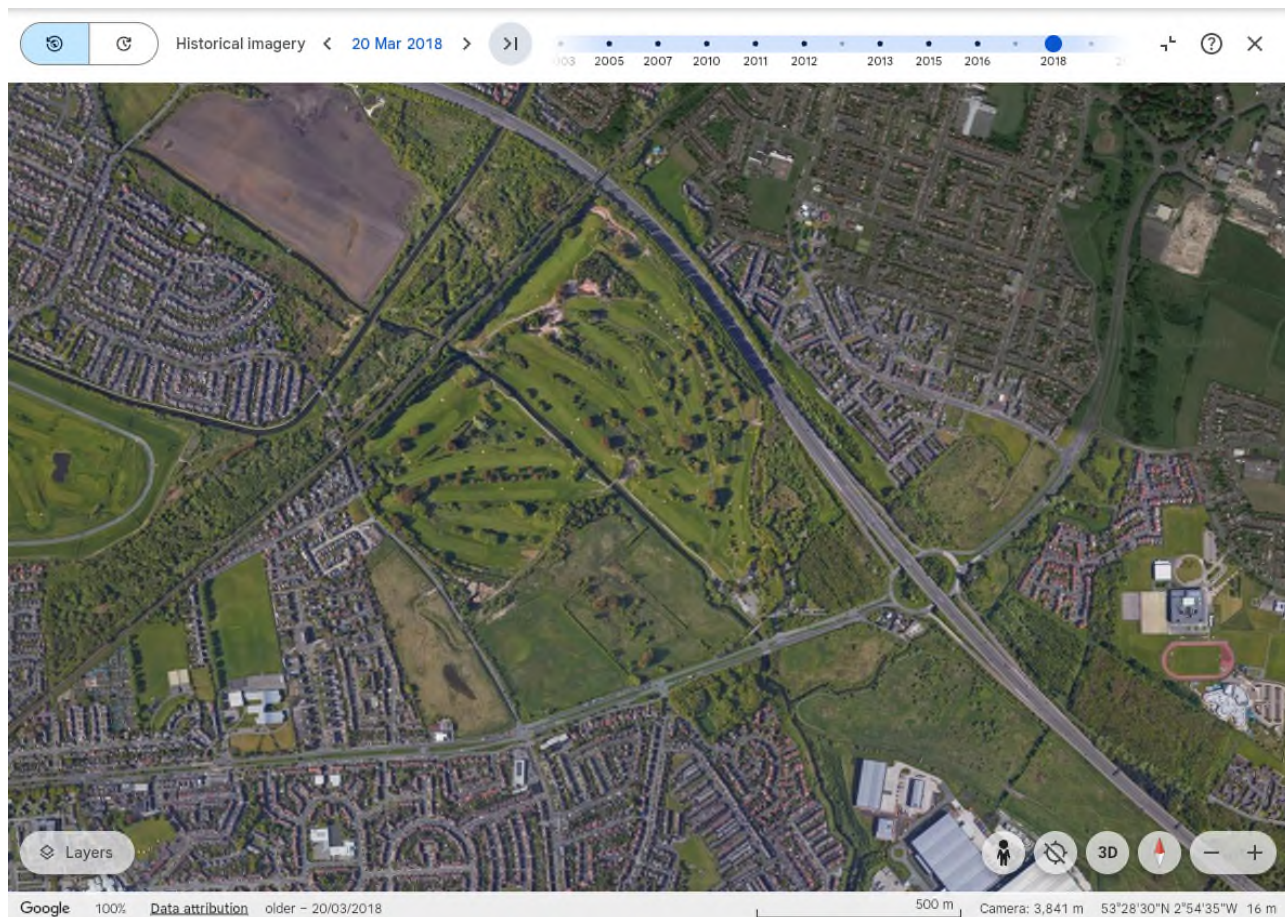
APPENDIX B

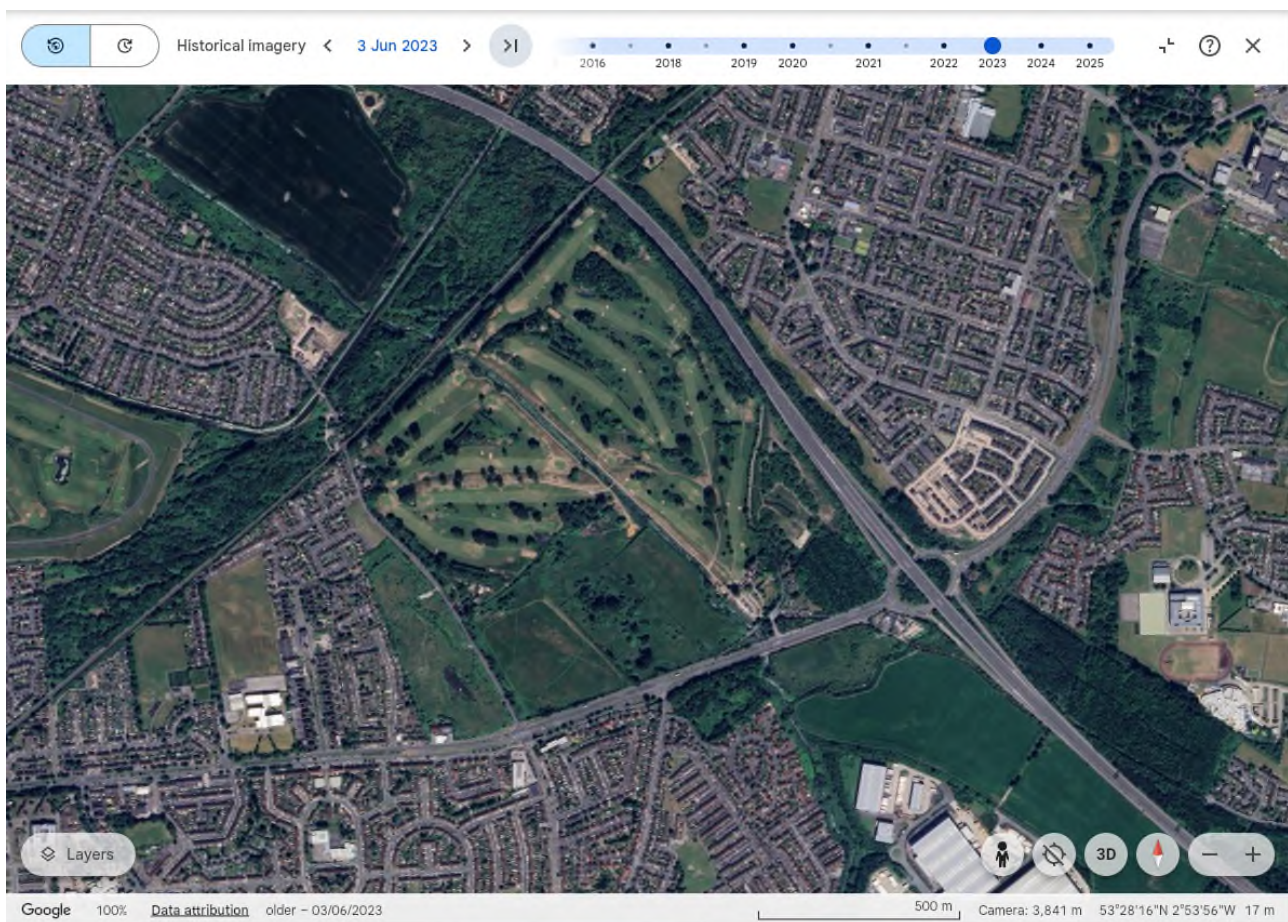
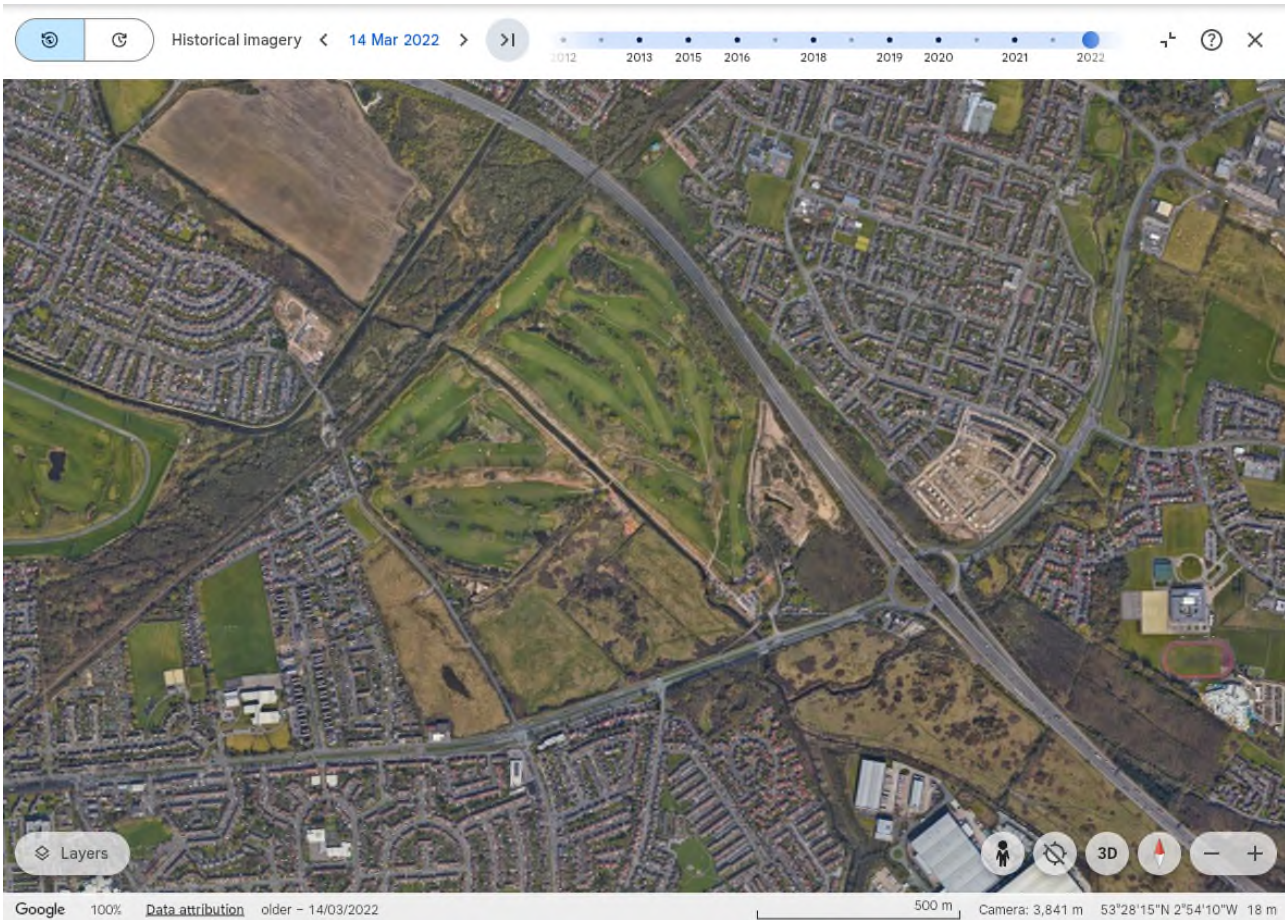
GOOGLE EARTH IMAGES













APPENDIX C

GEOLOGICAL RECORDS

Geology 1:50,000 Maps Legends

Artificial Ground and Landslip

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	MGR	Made Ground (Undivided)	Artificial Deposit	Not Supplied - Holocene

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Not Supplied - Holocene
	SSA	Shirdley Hill Sand Formation	Sand	Not Supplied - Devensian
	TILLD	Till, Devensian	Diamicton	Not Supplied - Devensian
	TILLD	Till, Devensian	Clay, Sandy, Gravelly, Cobbly	Not Supplied - Devensian

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	CHES	Chester Formation	Sandstone	Not Supplied - Olenekian
	WLSF	Wilmslow Sandstone Formation	Sandstone	Not Supplied - Early Triassic
	ETM	Etruria Formation	Mudstone	Not Supplied - Westphalian
		Faults		

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Geology 1:50,000 Maps

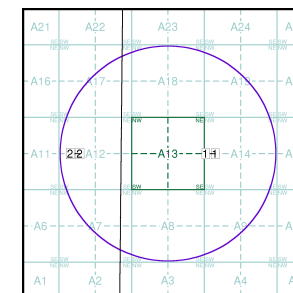
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published paper maps.

The various geological layers - artificial and landslip deposits, superficial geology and solid (bedrock) geology are displayed in separate maps, but superimposed on the final 'Combined Surface Geology' map. All map legends feature on this page. Not all layers have complete nationwide coverage, so availability of data for relevant map sheets is indicated below.

Geology 1:50,000 Maps Coverage

Map ID:	2	Map ID:	1
Map Sheet No:	083	Map Sheet No:	084
Map Name:	Formby	Map Name:	Wigan
Map Date:	1942	Map Date:	2013
Bedrock Geology:	Available	Bedrock Geology:	Available
Superficial Geology:	Available	Superficial Geology:	Available
Artificial Geology:	Not Available	Artificial Geology:	Available
Faults:	Not Supplied	Faults:	Not Supplied
Landslip:	Not Available	Landslip:	Available
Rock Segments:	Not Supplied	Rock Segments:	Not Supplied

Geology 1:50,000 Maps - Slice A



Order Details:

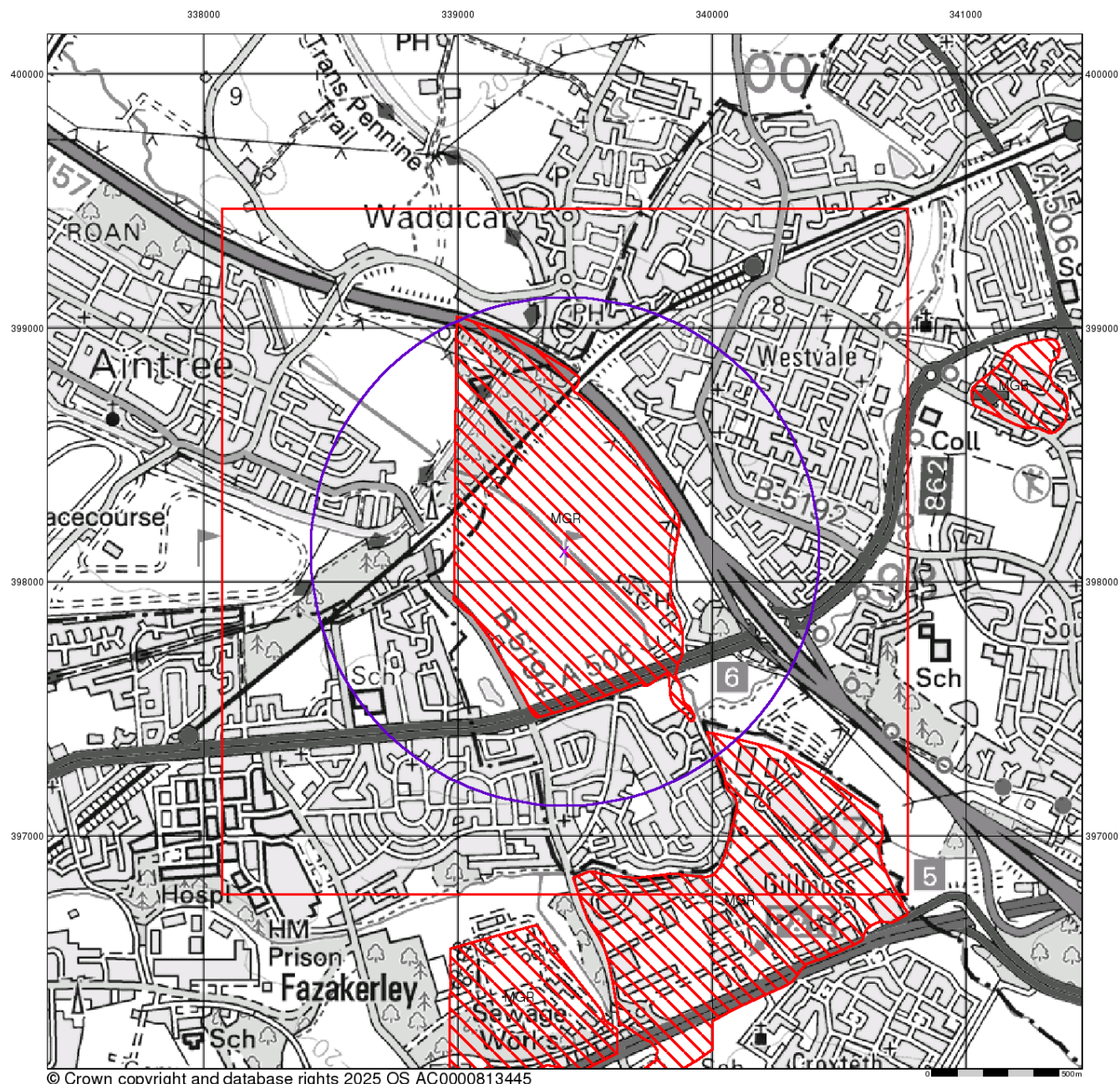
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Customer Reference:	ZZ25061
National Grid Reference:	339420, 398120
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details:

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Artificial Ground and Landslip

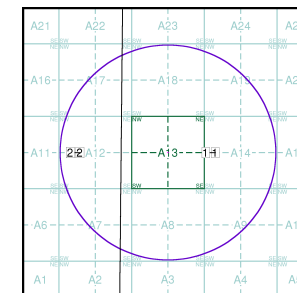
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions and unstable ground.

Artificial ground includes:

- Made ground - man-made deposits such as embankments and spoil heaps on the natural ground surface.
- Worked ground - areas where the ground has been cut away such as quarries and road cuttings.
- Infilled ground - areas where the ground has been cut away then wholly or partially backfilled.
- Landscaped ground - areas where the surface has been reshaped.
- Disturbed ground - areas of ill-defined shallow or near surface mineral workings where it is impracticable to map made and worked ground separately.

Mass movement (landslip) deposits on BGS geological maps are primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground. The dataset also includes foundered strata, where the ground has collapsed due to subsidence.

Artificial Ground and Landslip Map - Slice A



Order Details:

Order Number: 377524233_1_1
 Customer Reference: ZZ25061
 National Grid Reference: 339420, 398120
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

Site Details:

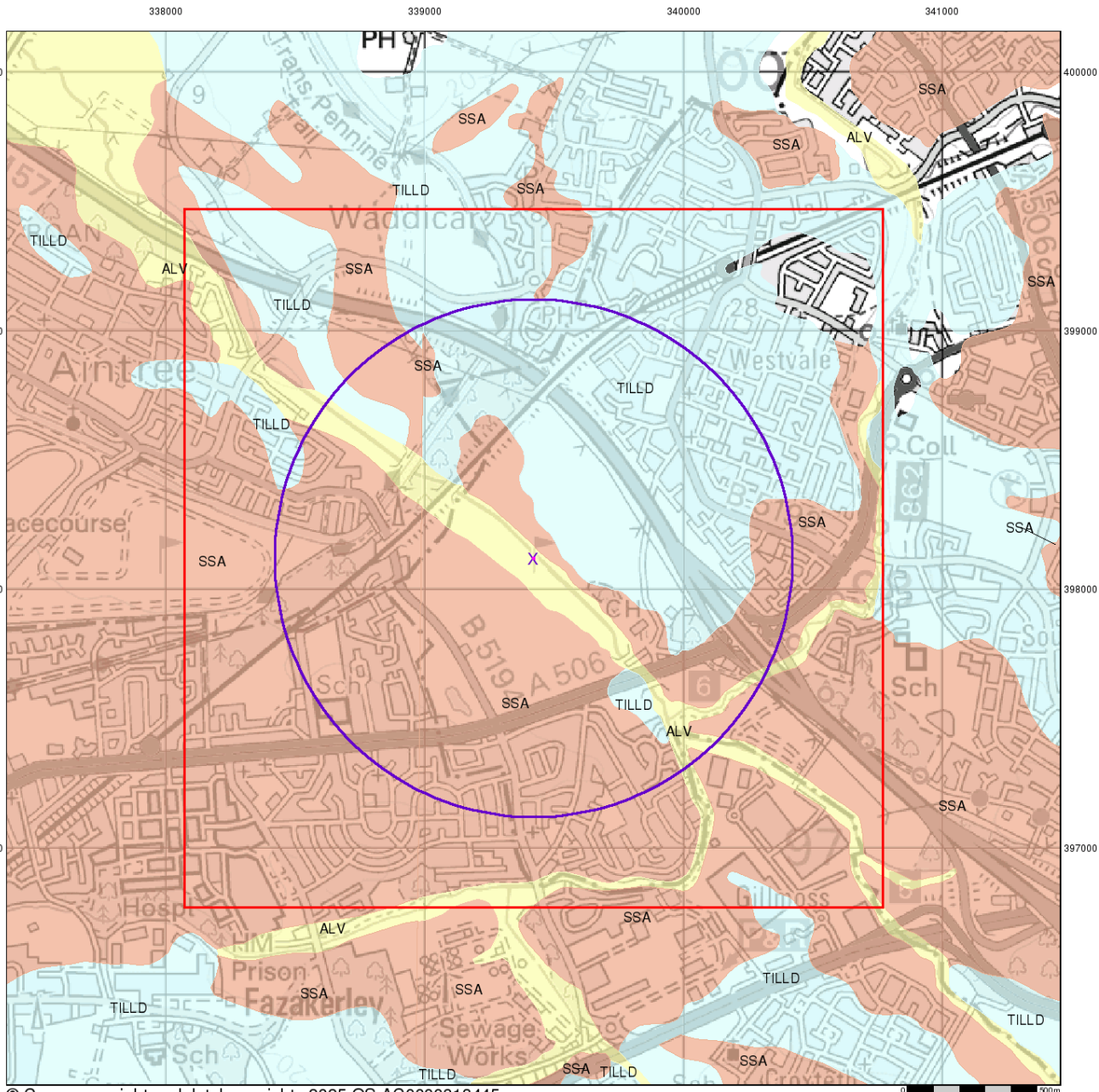
Kirkby Golf Club, Ingoe Lane, LIVERPOOL, L32 4SS

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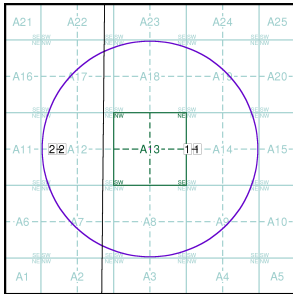
Superficial Geology

Superficial Deposits are the youngest geological deposits formed during the most recent period of geological time, the Quaternary, which extends back about 1.8 million years from the present.

They rest on older deposits or rocks referred to as Bedrock. This dataset contains Superficial deposits that are of natural origin and 'in place'. Other superficial strata may be held in the Mass Movement dataset where they have been moved, or in the Artificial Ground dataset where they are of man-made origin.

Most of these Superficial deposits are unconsolidated sediments such as gravel, sand, silt and clay, and onshore they form relatively thin, often discontinuous patches or larger spreads.

Superficial Geology Map - Slice A



Order Details:

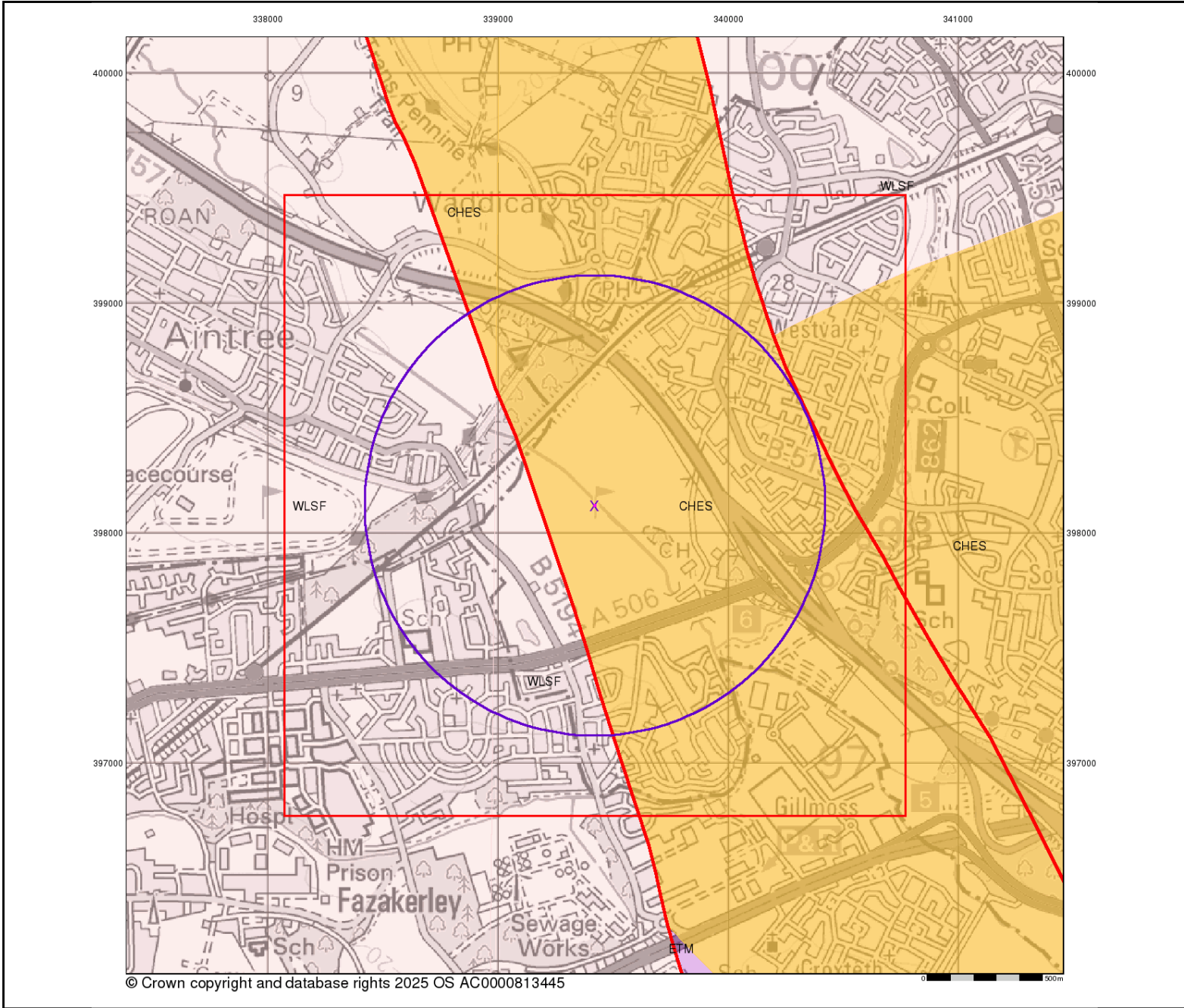
Order Number: 377524233_1_1
Customer Reference: ZZ25061
National Grid Reference: 339420, 398120
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details:

Kirkby Golf Club, Ingoe Lane, LIVERPOOL, L32 4SS

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Bedrock and Faults

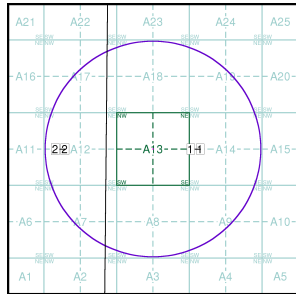
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

The bedrock has formed over vast lengths of geological time ranging from ancient and highly altered rocks of the Proterozoic, some 2500 million years ago, or older, up to the relatively young Pliocene, 1.8 million years ago.

The bedrock geology includes many lithologies, often classified into three types based on origin: igneous, metamorphic and sedimentary.

The BGS Faults and Rock Segments dataset includes geological faults (e.g. normal, thrust), and thin beds mapped as lines (e.g. coal seam, gypsum bed). Some of these are linked to other particular 1:50,000 Geology datasets, for example, coal seams are part of the bedrock sequence, most faults and mineral veins primarily affect the bedrock but cut across the strata and post date its deposition.

Bedrock and Faults Map - Slice A



Order Details:

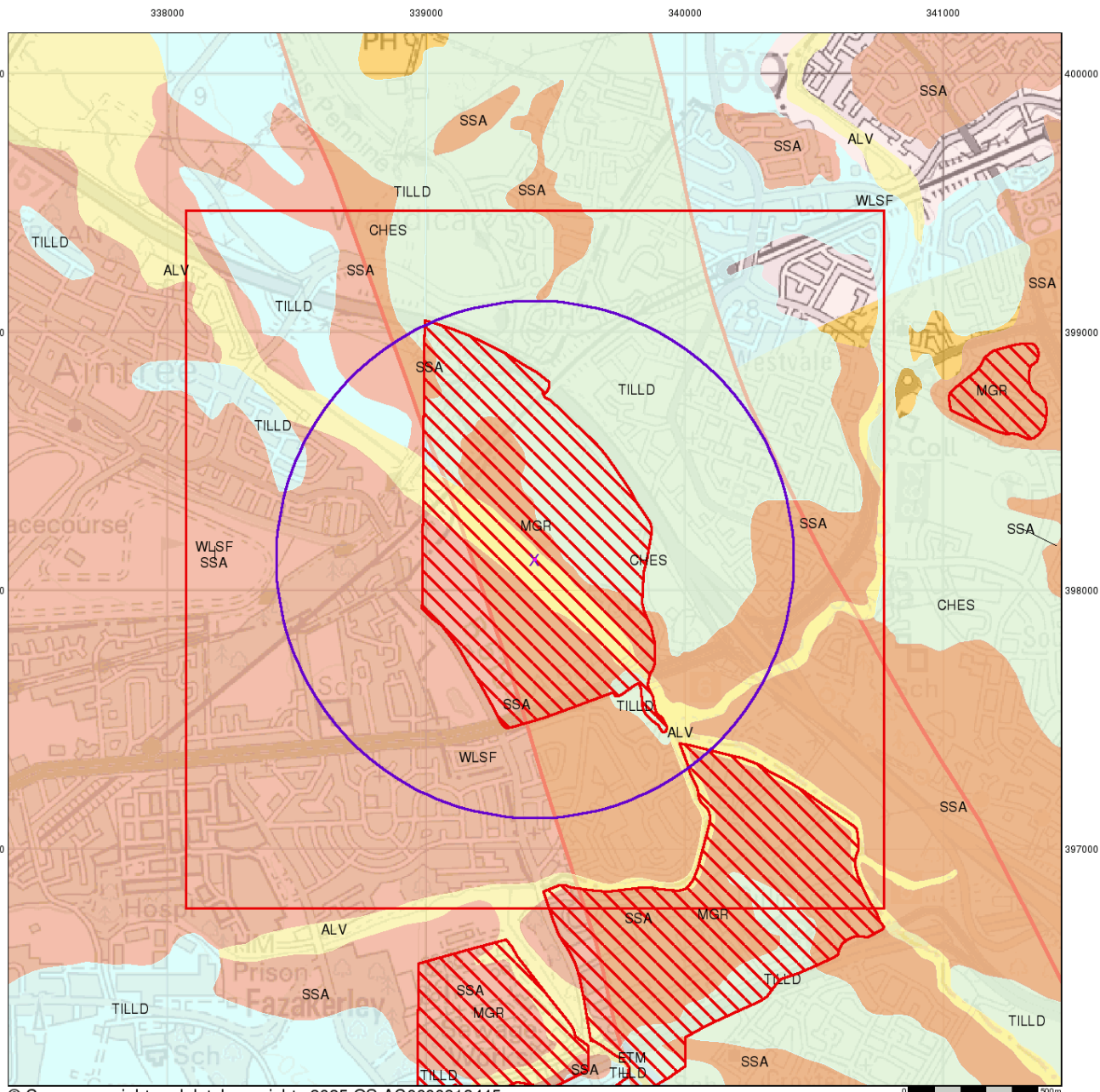
Order Number: 377524233_1_1
Customer Reference: ZZ25061
National Grid Reference: 339420, 398120
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details:

Kirkby Golf Club, Ingoe Lane, LIVERPOOL, L32 4SS

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Combined Surface Geology

The Combined Surface Geology map combines all the previous maps into one combined geological overview of your site.

Please consult the legends to the previous maps to interpret the Combined "Surface Geology" map.

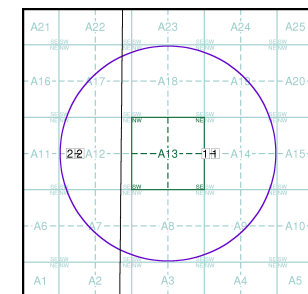
Additional Information

More information on 1:50,000 Geological mapping and explanations of rock classifications can be found on the BGS website. Using the LEX Codes in this report, further descriptions of rock types can be obtained by interrogating the 'BGS Lexicon of Named Rock Units'. This database can be accessed by following the 'Information and Data' link on the BGS website.

Contact

British Geological Survey
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Keyworth
Nottingham
NG12 5GG
Telephone: 0115 936 3143
Fax: 0115 936 3276
email: enquiries@bgs.ac.uk
website: www.bgs.ac.uk

Combined Geology Map - Slice A



Order Details:

Order Number: 377524233_1_1
Customer Reference: ZZ25061
National Grid Reference: 339420, 398120
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details:

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APPENDIX D

ENVIROCHECK REPORT

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

377524233_1_1

Customer Reference:

ZZ25061

National Grid Reference:

339420, 398120

Slice:

A

Site Area (Ha):

0.01

Search Buffer (m):

1000

Site Details:

Kirkby Golf Club, Ingoe Lane

LIVERPOOL

L32 4SS

Client Details:

Mr Lovelock

Zig Zag Environmental Limited

Suite 10 Railway House

Railway Road

Chorley

Lancs

PR6 0HW

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	26
Hazardous Substances	-
Geological	32
Industrial Land Use	35
Sensitive Land Use	40
Data Currency	41
Data Suppliers	47
Useful Contacts	48

Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination. For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client. In this datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Radon Potential dataset Copyright Notice

Information supplied from a joint dataset compiled by The British Geological Survey and Public Health England. The probability result is only valid for properties above ground. All basement and cellar areas are considered to be at additional risk from high radon levels. If an underground room such as a cellar or basement makes up part of the living or working accommodation, the property should be tested regardless of Radon Affected Area status.

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Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 2				21
Prosecutions					
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 7				2
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 7		Yes		
Pollution Incidents to Controlled Waters	pg 7		3	2	14
Historical Prosecutions	pg 10				1
Registered Radioactive Substances					
Substantiated Pollution Incident Register	pg 11				1
Water Abstractions	pg 11				(*8)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 13	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk			n/a	n/a	n/a
Groundwater Vulnerability - Local Information			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 13	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 13	Yes	n/a	n/a	n/a
Source Protection Zones	pg 13	1			
Extreme Flooding from Rivers or Sea without Defences	pg 13	Yes		n/a	n/a
Flooding from Rivers or Sea without Defences	pg 13	Yes	Yes	n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 14		10	54	31
Water Framework Directive - Catchment	pg 24	Yes			Yes
Water Framework Directive - Groundwater	pg 25	Yes			
Water Framework Directive - Surface Waters					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 26		1	1	2
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 27				1
Local Authority Landfill Coverage	pg 27	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites	pg 27			3	
Potentially Infilled Land (Non-Water)	pg 27				1
Potentially Infilled Land (Water)	pg 27		12	11	46
Registered Landfill Sites	pg 31			1	
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 32	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 32	Yes	Yes		Yes
BGS Recorded Mineral Sites					
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 34		Yes	n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 34	Yes		n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 34	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 34	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 34	Yes		n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 35				16
Fuel Station Entries	pg 36				3
Points of Interest - Commercial Services	pg 36				4
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 37				5
Points of Interest - Public Infrastructure	pg 37		2	3	13
Points of Interest - Recreational and Environmental	pg 38				3
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt	pg 40	1		1	1
Areas of Unadopted Green Belt	pg 40				1
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 40	1			
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NE (N)	0	1	339420 398120
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	43	1	339450 398150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	184	1	339550 398250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	356	1	339200 398400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	367	1	339100 398300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	372	1	339250 398450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	377	1	339350 397750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (NE)	377	1	339750 398300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	389	1	339150 398400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (W)	392	1	339050 398250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	397	1	339200 398450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	399	1	339300 398500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (NW)	412	1	339050 398300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (NW)	417	1	339250 398500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	427	1	339150 398450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (E)	431	1	339850 398100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	436	1	339350 398550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (NE)	467	1	339600 398550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (N)	481	1	339400 398600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consents Operator: United Utilities Water Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Sherwoods Lane Pumping Station, Fazakerley, Liverpool, Merseyside Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 016987001 Permit Version: 2 Effective Date: 25th April 2003 Issued Date: 25th April 2003 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Alt Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A12SE (W)	587	2	338850 397980
1	Discharge Consents Operator: United Utilities Water Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Sherwoods Lane Ps, Sefton, Merseyside Authority: Environment Agency, North West Region Catchment Area: Alt Reference: 01LIV0033 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 25th April 2003 Discharge Type: Storm /emergency overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Alt Status: Consent revoked or revised: New Consent issued (Section 37(1)) Positional Accuracy: Located by supplier to within 100m	A12SE (W)	587	2	338850 397980
1	Discharge Consents Operator: United Utilities Water Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Sherwoods Lane Pumping Station, Fazakerley, Liverpool, Merseyside Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016987001 Permit Version: 1 Effective Date: 30th September 1994 Issued Date: Not Supplied Revocation Date: 24th April 2003 Discharge Type: Storm /emergency overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Alt Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 100m	A12SE (W)	589	2	338850 397975
2	Discharge Consents Operator: United Utilities Water Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Pipe At Ingoe Lane Ps Eo, Kirkby, Merseyside Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016997016 Permit Version: 1 Effective Date: 15th August 1996 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Alt Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	616	2	339850 397680

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	Discharge Consents Operator: United Utilities Water Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Wango Lane Ps, Aintree, Sefton, Merseyside Authority: Environment Agency, North West Region Catchment Area: Alt Reference: 01SEF0084 Permit Version: 2 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Not Supplied Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 100m	A17SE (NW)	784	2	338800 398600
3	Discharge Consents Operator: United Utilities Water Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Wango Lane Ps, Aintree, Sefton, Merseyside Authority: Environment Agency, North West Region Catchment Area: Alt Reference: 01sef0084 Permit Version: 1 Effective Date: 1st July 1991 Issued Date: Not Supplied Revocation Date: 31st December 1994 Discharge Type: Sewage Discharges - Unspecified - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Not Supplied Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A17SE (NW)	784	2	338800 398600
4	Discharge Consents Operator: United Utilities Water Limited Property Type: WTW/WATER COLLECTION/TREATMENT/SUPPLY Location: Crosby Water Main, Merseyside Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016982266 Permit Version: 1 Effective Date: 11th June 1991 Issued Date: 11th June 1991 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Process Effluent - Water Company (Wtw) Discharge: Freshwater Stream/River Environment: Receiving Water: Trib River Alt Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 100m	A18NW (N)	790	2	339300 398900
5	Discharge Consents Operator: United Utilities Water Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Melling Wwtw M57, Liverpool, ., Merseyside, L31 1hb Authority: Environment Agency, North West Region Catchment Area: Alt Reference: 016987034 Permit Version: 4 Effective Date: 22nd October 2018 Issued Date: 22nd October 2018 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Unnamed Trib Of River Alt Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A17NE (NW)	911	2	338950 398900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	Discharge Consents Operator: United Utilities Water Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Melling Wwtw M57, Liverpool, ., Merseyside, L31 1hb Authority: Environment Agency, North West Region Catchment Area: Alt Reference: 016987034 Permit Version: 4 Effective Date: 22nd October 2018 Issued Date: 22nd October 2018 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Unnamed Trib Of River Alt Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A17NE (NW)	911	2	338950 398900
5	Discharge Consents Operator: United Utilities Water Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Melling Wwtw M57, Liverpool, ., Merseyside, L31 1hb Authority: Environment Agency, North West Region Catchment Area: Alt Reference: 016987034 Permit Version: 3 Effective Date: 2nd May 2003 Issued Date: 2nd May 2003 Revocation Date: 21st October 2018 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Unnamed Trib Of River Alt Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A17NE (NW)	911	2	338950 398900
5	Discharge Consents Operator: United Utilities Water Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Melling Wwtw M57, Liverpool, ., Merseyside, L31 1hb Authority: Environment Agency, North West Region Catchment Area: Alt Reference: 016987034 Permit Version: 3 Effective Date: 2nd May 2003 Issued Date: 2nd May 2003 Revocation Date: 21st October 2018 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Unnamed Trib Of River Alt Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A17NE (NW)	911	2	338950 398900
5	Discharge Consents Operator: United Utilities Water Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Melling Wwtw M57, Liverpool, ., Merseyside, L31 1hb Authority: Environment Agency, North West Region Catchment Area: Alt Reference: 016987034 Permit Version: 1 Effective Date: 13th August 1999 Issued Date: 13th August 1999 Revocation Date: 1st May 2003 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Unnamed Trib Of River Alt Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A17NE (NW)	911	2	338950 398900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	Discharge Consents Operator: United Utilities Water Plc Property Type: Sewerage Network - Pumping Station - Water Company Location: Melling Wwtw, Melling, Lancashire Authority: Environment Agency, North West Region Catchment Area: Alt Reference: 016987034 Permit Version: 2 Effective Date: 5th September 2003 Issued Date: 13th August 1999 Revocation Date: 4th September 2003 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Unnamed Trib Of River Alt Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A17NE (NW)	911	2	338950 398900
5	Discharge Consents Operator: United Utilities Water Plc Property Type: Sewerage Network - Pumping Station - Water Company Location: Melling Wwtw, Melling, Lancashire Authority: Environment Agency, North West Region Catchment Area: Alt Reference: 016987034 Permit Version: 2 Effective Date: 5th September 2003 Issued Date: 13th August 1999 Revocation Date: 4th September 2003 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Unnamed Trib Of River Alt Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A17NE (NW)	911	2	338950 398900
5	Discharge Consents Operator: United Utilities Water Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Melling Stw Spencers Lane, Melling, Sefton, Merseyside Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 016930114 Permit Version: 4 Effective Date: 1st January 2010 Issued Date: 24th September 2009 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Trib River Alt Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A17NE (NW)	930	2	338930 398910
5	Discharge Consents Operator: United Utilities Water Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Melling Stw Spencers Lane, Melling, Sefton, Merseyside Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 016930114 Permit Version: 3 Effective Date: 31st December 2005 Issued Date: 19th December 2005 Revocation Date: 31st December 2009 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Trib River Alt Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A17NE (NW)	930	2	338930 398910

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	Discharge Consents Operator: United Utilities Water Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Melling Stw Spencers Lane, Melling, Sefton, Merseyside Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016930114 Permit Version: 2 Effective Date: 31st January 1985 Issued Date: 31st January 1985 Revocation Date: 30th December 2005 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Trib River Alt Status: Consent revoked or revised: New Consent issued (Section 37(1)) Positional Accuracy: Located by supplier to within 100m	A17NE (NW)	930	2	338930 398910
5	Discharge Consents Operator: United Utilities Water Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Melling Stw Spencers Lane, Melling, Sefton, Merseyside Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 016930114 Permit Version: 1 Effective Date: 12th January 1980 Issued Date: Not Supplied Revocation Date: 30th January 1985 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Trib River Alt Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A17NE (NW)	930	2	338930 398910
6	Discharge Consents Operator: Unknown Operator Property Type: Not Given Location: Walton Farm Sewage Treatment Works , Back Gillmoss Lane Near , KIRKBY , Merseyside Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016930116A Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Sewage Treatment Works Final Effluent - Part Biological Treatement Discharge: Freshwater Stream/River Environment: Receiving Water: Fully Treated Eff; Outlet To Stream; Knowsley Brook; Licence Status: Revoked Status: Not Given Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	919	2	339990 397400
6	Discharge Consents Operator: United Utilities Water Ltd Property Type: Sewage Disposal Works - Water Company Location: Walton Farm Etw Walton Farm, Back Gillmoss Lane, Kirkby, Merseyside Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016930116 Permit Version: 1 Effective Date: 12th January 1980 Issued Date: Not Supplied Revocation Date: 21st June 1989 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Knowsley Brook Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	919	2	339990 397400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	Discharge Consents Operator: United Utilities Water Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Walton Farm Etw Walton Farm, Back Gillmoss Lane, Kirkby, Merseyside Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 016930116 Permit Version: 1 Effective Date: 12th January 1980 Issued Date: Not Supplied Revocation Date: 21st June 1989 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Knowsley Brook Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	919	2	339990 397400
7	Local Authority Pollution Prevention and Controls Name: Shell Service Station Travellers Check Location: Longmoor Lane, LIVERPOOL, Merseyside, L10 1LF Authority: Knowsley Metropolitan Borough Council, Environmental Health and Consumer Protection Division Permit Reference: B/1098/1.2/13 Dated: 29th January 1999 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station Status: Permitted Positional Accuracy: Manually positioned to the address or location	A8SW (SW)	761	3	339114 397424
8	Local Authority Pollution Prevention and Controls Name: Total Westvale Service Station Location: Whitefield Drive, Westvale, Kirkby, LIVERPOOL, Merseyside, L32 0UX Authority: Knowsley Metropolitan Borough Council, Environmental Health and Consumer Protection Division Permit Reference: B/1298/1.2/07 Dated: 29th January 1999 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station Status: Permitted Positional Accuracy: Automatically positioned to the address	A19SW (NE)	795	3	339993 398671
	Nearest Surface Water Feature	A13NE (NE)	2	-	339421 398121
9	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Unknown Note: Not Supplied Incident Date: 9th March 1993 Incident Reference: 93450026 Catchment Area: Alt Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SW (SW)	29	2	339400 398100
10	Pollution Incidents to Controlled Waters Property Type: No Premises Identified Location: Overflow, Rear of Packhorse Bowling Club, Westminster Road, Cheshire Authority: Environment Agency, North West Region Pollutant: General Biodegradable : Grey Water Note: Not Supplied Incident Date: 2nd July 1999 Incident Reference: 29462 Catchment Area: Bollin Receiving Water: River Stretch (Freshwater) Cause of Incident: Drainage Failures : Other Drainage Type Failure Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NW (N)	83	2	339400 398200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Other Oil Note: Oil (Lube) Weathered Incident Date: 28th July 1992 Incident Reference: 92440121 Catchment Area: Alt Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (E)	182	2	339600 398100
12	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Lubricating Note: Knowsley Brook Incident Date: 27th March 1992 Incident Reference: 92440031 Catchment Area: Alt Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	367	2	339100 398300
13	Pollution Incidents to Controlled Waters Property Type: Private Sewage (Non-PLC): Sewerage Systems Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Storm Sewage Note: Not Supplied Incident Date: 21st June 1991 Incident Reference: 91440042 Catchment Area: Alt Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A14SW (SE)	498	2	339800 397800
13	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Chemicals - Paints / Dyes Note: Tracing Dye Incident Date: 1st October 1991 Incident Reference: 91440085 Catchment Area: Alt Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SW (SE)	501	2	339800 397795
14	Pollution Incidents to Controlled Waters Property Type: Private Sewage (Non-PLC): Sewerage Systems Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 2nd March 1995 Incident Reference: 95440055 Catchment Area: Alt Receiving Water: Not Given Cause of Incident: Mechanical Failure Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A8NE (SE)	505	2	339700 397700
14	Pollution Incidents to Controlled Waters Property Type: Private Sewage (Non-PLC): Sewerage Systems Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Storm Sewage Note: Not Supplied Incident Date: 27th October 1994 Incident Reference: 94440142 Catchment Area: Alt Receiving Water: Not Given Cause of Incident: Electrical Failure Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A8NE (SE)	510	2	339700 397695

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Combined Sewer Overflow Location: Alt At Wango Lane , River Alt, AINTREE Authority: Environment Agency, North West Region Pollutant: Sewage - Storm Overflow Note: River Alt; Storm Sewage Overflow Incident Date: 6th May 1997 Incident Reference: 97440070 Catchment Area: Alt Receiving Water: Freshwater Stream/River Cause of Incident: High Flow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NE (W)	551	2	338900 398300
16	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Merseyside Authority: Environment Agency, North West Region Pollutant: Unknown Note: Alt; None Pollution Found Incident Date: 14th November 1995 Incident Reference: 95440179 Catchment Area: Alt Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	567	2	339800 397700
17	Pollution Incidents to Controlled Waters Property Type: Construction Location: At Wassle Homes Site, FAZAKERLEY Authority: Environment Agency, North West Region Pollutant: Oils - Diesel (Including Agricultural) Note: River Alt; Diesel Fuel Incident Date: 4th March 1997 Incident Reference: 97440036 Catchment Area: Alt Receiving Water: Freshwater Stream/River Cause of Incident: Leaking Tank Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	645	2	339800 397600
17	Pollution Incidents to Controlled Waters Property Type: Not Given Location: River Alt, Valley Road, KIRKBY, Merseyside Authority: Environment Agency, North West Region Pollutant: Organic Chemicals : Oils: Mixed / Unidentified / Waste Note: Not Supplied Incident Date: 14th September 1999 Incident Reference: 32459 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	649	2	339800 397595
18	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Hancocks Bridge, AINTREE Authority: Environment Agency, North West Region Pollutant: Oils - Diesel (Including Agricultural) Note: Not Supplied Incident Date: 30th March 1998 Incident Reference: CE980259 Catchment Area: Alt Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NE (W)	646	2	338800 398300
19	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Waste Oil Note: Not Supplied Incident Date: 19th June 1995 Incident Reference: 95440100 Catchment Area: Alt Receiving Water: Not Given Cause of Incident: Accidental Spillage/Leakage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SE (S)	773	2	339700 397400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
20	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Liverpool And Leeds Canal, AINTREE Authority: Environment Agency, North West Region Pollutant: Oils - Diesel (Including Agricultural) Note: Not Supplied Incident Date: 22nd March 1998 Incident Reference: CE980257 Catchment Area: Alt Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18NW (N)	811	2	339200 398900
21	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Algae Note: Not Supplied Incident Date: 12th October 1995 Incident Reference: 95440168 Catchment Area: Leeds Liverpool Canal - South Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18NW (N)	881	2	339400 399000
22	Pollution Incidents to Controlled Waters Property Type: Connection To Surface Drains Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Unknown Sewage Note: Tributary Of Alt Incident Date: 21st February 1994 Incident Reference: 94440024 Catchment Area: Alt Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A18NE (N)	884	2	339500 399000
23	Pollution Incidents to Controlled Waters Property Type: Road Location: Road Traffic Accident On , Valley Road, KIRBY Authority: Environment Agency, North West Region Pollutant: Oils - Diesel (Including Agricultural) Note: Kirby Bk; Diesel Incident Date: 27th May 1997 Incident Reference: 97440071 Catchment Area: Alt Receiving Water: Freshwater Stream/River Cause of Incident: Road Traffic Accident Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SE (E)	937	2	340300 397800
24	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Diesel (Including Agricultural) Note: Tributary Of Alt Incident Date: 21st February 1994 Incident Reference: 94440025 Catchment Area: Alt Receiving Water: Not Given Cause of Incident: Vandalism Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A18NW (N)	981	2	339400 399100
25	Historical Prosecutions Location: Tributary of River Alt, Tributary of River Alt, Spencers Lane, LIVERPOOL, Mersyside, L31 Prosecution Text: A Power Failure Saw 7000 Litres Of Sewage Overflow Into Watercourse Prosecution Act: Wra91 S85(1) Hearing Date: Not Supplied Verdict: Guilty Fine: 17000 Costs: 0 Positional Accuracy: Manually positioned to the address or location	A17NE (NW)	954	-	338936 398942

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	Substantiated Pollution Incident Register Authority: Environment Agency - North West Region, South Area Incident Date: 15th November 2004 Incident Reference: 277760 Water Impact: Category 4 - No Impact Air Impact: Category 4 - No Impact Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: General Biodegradable : Natural Organic Material Pollutant: Inert : Construction / Demolition Material Pollutant: Specific Waste Materials: Household Waste Pollutant: Specific Waste Materials: Tyres Pollutant: Specific Waste Materials: Vehicles And Vehicle Parts	A12NE (W)	567	2	338856 398179
	Water Abstractions Operator: B.I.C.C Ltd. Licence Number: 2569031002 Permit Version: Not Supplied Location: Borehole, Melling, LIVERPOOL Authority: Environment Agency, North West Region Abstraction: Cooling & Boiler Feed & Drinking; Cooking; Sanitary; Washing For Industrial Premises Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 273 Yearly Rate (m3): 99330 Details: Additional Purposes: Boiler feed; Domestic - industrial; Licence Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A23SW (N)	1186	2	339300 399300
	Water Abstractions Operator: British Waterways Board Licence Number: 2569030996 Permit Version: Not Supplied Location: Leeds & Liverpool Canal, Melling, LIVERPOOL Authority: Environment Agency, North West Region Abstraction: Manufacturing Abstraction Type: Not Supplied Source: Canal Daily Rate (m3): 0 Yearly Rate (m3): 455 Details: Licence Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A23SW (N)	1294	2	339200 399395
	Water Abstractions Operator: British Waterways Board Licence Number: 2569030047 Permit Version: Not Supplied Location: Leeds & Liverpool Canal Authority: Environment Agency, North West Region Abstraction: Not Supplied Abstraction Type: Not Supplied Source: Canal Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Not Supplied Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A23SW (N)	1299	2	339200 399400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Stella Products Ltd Licence Number: 2569031129 Permit Version: 100 Location: Borehole At Fazakerley, Liverpool Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Fazakerley Outlined Red On Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th November 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A6NE (W)	1375	2	338140 397620
	Water Abstractions Operator: British Waterways Board Licence Number: 2569031085 Permit Version: Not Supplied Location: Leeds & Liverpool Canal At, MELLING Authority: Environment Agency, North West Region Abstraction: Agricultural Spray Irrigation (Summer) Abstraction Type: Not Supplied Source: Canal Daily Rate (m3): 455 Yearly Rate (m3): 11365 Details: Licence Status : Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A22NE (N)	1659	2	338900 399695
	Water Abstractions Operator: British Waterways Board Licence Number: 2569031085 Permit Version: Not Supplied Location: Leeds & Liverpool Canal At, MELLING Authority: Environment Agency, North West Region Abstraction: Agricultural Spray Irrigation (Summer) Abstraction Type: Not Supplied Source: Canal Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Licence Status : Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A22NE (N)	1698	2	338800 399700
	Water Abstractions Operator: Aintree Racecourse Co Ltd Licence Number: 2569031123 Permit Version: 102 Location: Borehole 'C' At Aintree Racecourse Authority: Environment Agency, North West Region Abstraction: Racecourses: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 26th November 2018 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(W)	1784	2	337640 398010

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: British Waterways Board Licence Number: 2569031085 Permit Version: Not Supplied Location: Leeds & Liverpool Canal, MELLING Authority: Environment Agency, North West Region Abstraction: Agricultural Spray Irrigation (Summer) Abstraction Type: Not Supplied Source: Canal Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Licence Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A22NW (NW)	1828	2	338700 399800
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - Medium Vulnerability Combined Vulnerability: Medium Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Mixed Dilution: 300-550 mm/year Baseflow Index: 40-70% Superficial Patchiness: >90% Superficial Thickness: 3-10m Superficial Recharge: Low	A13NE (N)	0	2	339420 398120
	Groundwater Vulnerability - Soluble Rock Risk None				
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	A13NE (N)	0	4	339420 398120
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NE (N)	0	4	339420 398120
27	Source Protection Zones Name: Not Supplied Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone III (Total Catchment): The total area needed to support the discharge from the protected groundwater source.	A13NE (N)	0	2	339420 398120
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (N)	0	2	339420 398120
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (N)	0	2	339420 398120
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (SE)	141	2	339519 398021
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
28	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1225.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Alt Catchment Name: Alt Primacy: 1	A13SW (SW)	2	5	339419 398119
29	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 42.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13NE (E)	97	5	339510 398156
30	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 47.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13NE (NE)	125	5	339518 398197
31	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13NE (NE)	134	5	339542 398173
32	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 62.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13NE (E)	139	5	339552 398162
33	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 29.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13SW (SW)	210	5	339320 397936
34	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 25.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13SW (SW)	227	5	339332 397912
35	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 2.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13SW (S)	233	5	339353 397897
36	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 21.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13SW (S)	235	5	339352 397896

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 163.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13NE (NE)	238	5	339635 398221
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 114.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13SW (S)	253	5	339354 397876
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 56.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13SE (E)	263	5	339677 398067
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 34.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13SE (E)	293	5	339712 398111
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 77.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13NW (N)	299	5	339392 398418
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13NE (E)	314	5	339733 398139
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 36.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13NE (E)	315	5	339734 398140
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 148.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13NW (NW)	323	5	339226 398378
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 36.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13NW (N)	330	5	339354 398443

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 76.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13NW (N)	339	5	339393 398457
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 32.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13NE (NE)	340	5	339679 398339
48	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A14NW (E)	344	5	339760 398166
49	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 249.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A14SW (E)	347	5	339763 398071
50	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 24.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A14NW (E)	349	5	339764 398170
51	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 59.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A18SW (N)	353	5	339377 398470
52	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 449.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13SW (SW)	359	5	339276 397792
53	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 30.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A18SE (N)	362	5	339503 398472
54	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A18SE (N)	363	5	339514 398470

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
55	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 197.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A18SE (N)	364	5	339523 398469
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A18SE (N)	364	5	339520 398469
57	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 140.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 2	A13NE (NE)	364	5	339749 398273
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 88.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A18SE (N)	365	5	339522 398470
59	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 2.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A18SE (N)	365	5	339457 398483
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 2	A13NE (NE)	365	5	339727 398317
61	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 36.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 2	A13NE (NE)	365	5	339725 398320
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A18SE (N)	366	5	339486 398479
63	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 29.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A18SE (N)	366	5	339486 398479

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
64	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 18.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A18SE (N)	367	5	339457 398485
65	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A14NW (E)	367	5	339780 398189
66	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13NE (NE)	370	5	339704 398356
67	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13NE (NE)	370	5	339704 398356
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 29.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13NE (NE)	371	5	339698 398364
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 22.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A18SE (N)	371	5	339492 398484
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13NW (NW)	371	5	339138 398360
71	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 194.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Alt Catchment Name: Alt Primacy: 1	A13NW (NW)	372	5	339132 398355
72	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13NE (NE)	374	5	339684 398384

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
73	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 32.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13NE (NE)	376	5	339743 398311
74	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A18SE (N)	379	5	339444 398497
75	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A18SE (N)	383	5	339442 398502
76	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A18SE (N)	391	5	339435 398510
77	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 96.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A18SE (N)	396	5	339432 398515
78	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 349.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13NE (NE)	398	5	339716 398385
79	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 129.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A14NW (NE)	405	5	339765 398331
80	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 273.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A14SW (E)	433	5	339848 398054
81	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A18SW (NW)	446	5	339238 398527

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
82	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A18SE (N)	447	5	339569 398541
83	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 36.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A18SE (N)	450	5	339570 398543
84	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A18SW (NW)	452	5	339238 398533
85	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 293.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A18SW (NW)	457	5	339235 398537
86	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 129.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A18SE (N)	479	5	339546 398582
87	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A18SE (N)	485	5	339590 398574
88	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 132.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 2	A18SW (N)	486	5	339382 398604
89	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 19.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A18SE (N)	490	5	339591 398579
90	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 61.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A14SW (SE)	490	5	339854 397894

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
91	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A14SW (SE)	491	5	339855 397895
92	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A14SW (SE)	502	5	339865 397888
93	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 9.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A18SE (N)	508	5	339589 398599
94	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 149.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A18SE (N)	514	5	339584 398606
95	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 23.9 Watercourse Level: Underground Permanent: True Watercourse Name: River Alt Catchment Name: Alt Primacy: 1	A12NE (NW)	558	5	338956 398430
96	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 1028.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Leeds and Liverpool Canal Catchment Name: Aire and Calder Primacy: 1	A12NE (NW)	569	5	338957 398450
97	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A18SE (N)	578	5	339472 398696
98	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 182.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Alt Catchment Name: Alt Primacy: 1	A12NE (NW)	582	5	338937 398444
99	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 150.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A17SE (NW)	630	5	339050 398629

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
100	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 73.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 2	A18SW (NW)	638	5	339124 398685
101	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 177.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Leeds and Liverpool Canal Catchment Name: Aire and Calder Primacy: 1	A18SW (NW)	638	5	339124 398685
102	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 156.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A12NE (W)	642	5	338796 398269
103	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 288.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A18SW (N)	671	5	339412 398791
104	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 68.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A18SW (N)	684	5	339219 398774
105	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 357.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A17SE (NW)	708	5	339073 398737
106	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A18NE (N)	728	5	339478 398846
107	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A18NE (N)	730	5	339480 398848
108	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 1667.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Leeds and Liverpool Canal Catchment Name: Aire and Calder Primacy: 1	A18NW (N)	737	5	339226 398830

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
109	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A18NE (N)	738	5	339487 398854
110	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 288.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A18NE (N)	746	5	339494 398862
111	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 33.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A12NW (NW)	754	5	338725 398412
112	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 528.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Alt Catchment Name: Alt Primacy: 1	A17SE (NW)	762	5	338799 398562
113	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A17SE (NW)	762	5	338799 398562
114	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 441.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Kirkby Brook Catchment Name: Alt Primacy: 1	A9NW (SE)	811	5	339935 397495
115	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 76.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Alt Catchment Name: Alt Primacy: 1	A9NW (SE)	811	5	339935 397495
116	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 912.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Alt Catchment Name: Alt Primacy: 1	A9SW (SE)	882	5	339963 397426
117	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 905.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Knowsley Brook Catchment Name: Alt Primacy: 1	A9SW (SE)	882	5	339963 397426

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
118	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 0.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A12SW (W)	962	5	338510 397807
119	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 106.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A12SW (W)	963	5	338509 397806
120	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A12SW (W)	963	5	338509 397806
121	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 0.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A12SW (W)	972	5	338500 397806
122	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 101.4 Watercourse Level: Underground Permanent: True Watercourse Name: Kirkby Brook Catchment Name: Alt Primacy: 1	A9NE (SE)	993	5	340303 397668
	Water Framework Directive - Catchment Class Code: River Catchment WaterBody Name: Alt US Bull Bridge WaterBody ID: GB112069061441 Operational: Alt Catchment: Alt Management: Alt and Crossens Catchment: Alt Catchment Name: Alt Crossens	A13NE (N)	0	2	339420 398120
	Water Framework Directive - Catchment Class Code: River Catchment WaterBody Name: Alt WaterBody ID: GB112069060580 Operational: Alt Catchment: Alt Management: Alt and Crossens Catchment: Alt Catchment Name: Alt Crossens	A8SE (S)	731	2	339420 397390
	Water Framework Directive - Catchment Class Code: River Catchment WaterBody Name: Simonswood Brook WaterBody ID: GB112069060630 Operational: Alt Catchment: Alt Management: Alt and Crossens Catchment: Alt Catchment Name: Alt Crossens	A9NW (SE)	745	2	339980 397630

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Framework Directive - Catchment Class Code: River Catchment WaterBody Name: Tue Brook WaterBody ID: GB112069060600 Operational: Alt Catchment: Alt and Crossens Management: Alt and Crossens Catchment: Alt and Crossens Catchment Name: Alt Crossens	A8SW (S)	779	2	339250 397360
	Water Framework Directive - Catchment Class Code: River Catchment WaterBody Name: Croxteth/Knowsley Brook WaterBody ID: GB112069060610 Operational: Alt Catchment: Alt and Crossens Management: Alt and Crossens Catchment: Alt and Crossens Catchment Name: Alt Crossens	A9NW (SE)	886	2	340010 397460
	Water Framework Directive - Groundwater Waterbody Name: Lower Mersey Basin and North Merseyside Permo-Triassic Sandstone Aquifers Waterbody ID: GB41201G101700 URL Address: https://environment.data.gov.uk/catchment-planning/WaterBody/GB41201G101700 Overall Rating: Poor Chemical Rating: Poor Quantitative Measure: Poor Year: 2019	A13NE (N)	0	2	339420 398120

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
123	Historical Landfill Sites Licence Holder: Liverpool City Council Location: Valley Road, Kirkby, Knowsley Name: Liverpool Municipal Golf Course Operator Location: Environmental Services Department, The Mansion House, Calderstones Park, Liverpool Boundary Accuracy: As Supplied Provider Reference: EAHLD16533 First Input Date: 9th February 1993 Last Input Date: Not Supplied Specified Waste Type: Deposited Waste included Inert Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: 405/01, GDO 232, 271	A13SW (S)	229	2	339391 397893
124	Historical Landfill Sites Licence Holder: Probably Local Authority Location: Knowsley, Merseyside Name: Ingoe Lane Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD16522 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste Type: Not Supplied EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: GDO 234	A14SW (E)	453	2	339869 398069
125	Historical Landfill Sites Licence Holder: Not Supplied Location: Kirkby Name: Burtons Bridge Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD34976 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste Type: Deposited Waste included Household Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: Not Supplied	A9NW (SE)	814	2	339941 397495
126	Historical Landfill Sites Licence Holder: Not Supplied Location: Back of Gillmoss Lane, Gillmoss, Liverpool, Merseyside Name: Gillmoss B Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD16546 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste Type: Deposited Waste included Industrial and Household Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: K1/16/219, GDO M219	A9SW (SE)	884	2	339969 397427

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
127	Licensed Waste Management Facilities (Locations) Licence Number: 103301 Location: Fazakerley Playing Fields, Aintree Lane, Fazakerley, Liverpool, Merseyside, L10 1LT Operator Name: U K SPORTS PARKS LIMITED Operator Location: Not Supplied Authority: Environment Agency - North West Region, South Area Site Category: Use of waste in a deposit for recovery op Licence Status: Revoked Issued: 21st February 2012 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8NW (SW)	580	2	339086 397647
	Local Authority Landfill Coverage Name: Knowsley Metropolitan Borough Council - Has supplied landfill data		0	6	339420 398120
	Local Authority Landfill Coverage Name: Merseyside Waste Disposal Authority - Has supplied landfill data		0	7	339420 398120
	Local Authority Landfill Coverage Name: Sefton Metropolitan Borough Council - Has no landfill data to supply		322	8	339106 398192
	Local Authority Landfill Coverage Name: Liverpool City Council - Has no landfill data to supply		515	9	339029 397785
128	Local Authority Recorded Landfill Sites Location: Liverpool Municipal Golf Course, Knowsley Reference: K016 Authority: Merseyside Waste Disposal Authority Last Reported Status: Unknown Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Located by supplier to within 100m Boundary Quality: Not Applicable	A13SW (S)	342	7	339300 397800
129	Local Authority Recorded Landfill Sites Location: Ingoe Lane Reference: GDO234 Authority: Knowsley Metropolitan Borough Council Last Reported Status: Closed Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Moderate	A14SW (E)	449	6	339865 398065
130	Local Authority Recorded Landfill Sites Location: Ingoe Lane, Knowsley Reference: K017 Authority: Merseyside Waste Disposal Authority Last Reported Status: Unknown Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Located by supplier to within 10m Boundary Quality: Not Applicable	A14SW (E)	495	7	339900 398000
131	Potentially Infilled Land (Non-Water) Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A14SW (E)	646	-	340063 398061
132	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1909	A13NW (NW)	5	-	339416 398123
133	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A13SW (SW)	14	-	339414 398108
134	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A13NE (E)	69	-	339488 398127

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
135	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1909	A13SE (SE)	72	-	339462 398063
136	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A13NW (NW)	90	-	339347 398173
137	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A13NE (NE)	131	-	339520 398203
138	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A13NE (NE)	157	-	339563 398182
139	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1928	A13SE (SE)	158	-	339511 397992
140	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1928	A13NW (NW)	202	-	339274 398260
141	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A13SW (SW)	217	-	339315 397930
142	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1909	A13SE (SE)	230	-	339515 397911
143	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A13NE (N)	240	-	339451 398357
144	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1909	A13NE (NE)	301	-	339688 398257
145	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1909	A13NE (NE)	321	-	339714 398249
146	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1909	A13NE (NE)	324	-	339612 398380
147	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1909	A14SW (E)	362	-	339778 398076
148	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A13SW (SW)	364	-	339178 397849
149	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1928	A13SE (SE)	367	-	339706 397890
150	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1909	A13SE (SE)	419	-	339676 397788
151	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A12SE (W)	427	-	339008 398007
152	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A14NW (NE)	430	-	339815 398287
153	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A8NE (S)	462	-	339546 397676
154	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1928	A12NE (NW)	481	-	339035 398408
155	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A8NW (SW)	511	-	339192 397663

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
156	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A19SW (NE)	518	-	339785 398487
157	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A19SW (NE)	527	-	339801 398482
158	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A8NW (SW)	535	-	339109 397685
159	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A8NW (S)	535	-	339304 397599
160	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A18SE (NE)	538	-	339746 398547
161	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1909	A8NW (SW)	540	-	339152 397652
162	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A14SW (E)	543	-	339953 398016
163	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A12SE (SW)	593	-	338913 397814
164	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A19SW (NE)	605	-	339829 398565
165	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A14SW (E)	619	-	340008 397929
166	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1928	A8NE (S)	628	-	339475 397495
167	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A18SE (N)	641	-	339560 398745
168	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A12SE (W)	646	-	338811 397908
169	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A17SE (NW)	660	-	338878 398497
170	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1909	A14NW (E)	664	-	340080 398191
171	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A14NW (E)	664	-	340082 398161
172	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A18SE (N)	676	-	339658 398752
173	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A14NE (E)	693	-	340096 398267
174	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A14NW (E)	703	-	340082 398352
175	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A19SW (NE)	704	-	340006 398509
176	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A19SW (NE)	740	-	339775 398769

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
177	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A19SW (NE)	760	-	339970 398644
178	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A14NE (E)	792	-	340183 398331
179	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1909	A19SW (NE)	826	-	339938 398763
180	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A9NE (SE)	828	-	340137 397706
181	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A18NE (N)	838	-	339638 398928
182	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A8SE (S)	839	-	339598 397301
183	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A8SE (S)	852	-	339670 397307
184	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A12SW (W)	859	-	338588 397906
185	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A12SW (W)	869	-	338562 397986
186	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A9SW (SE)	870	-	339967 397444
187	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A8SW (S)	870	-	339406 397250
188	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A8SE (S)	883	-	339588 397254
189	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A8SW (S)	884	-	339217 397261
190	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A12SW (W)	896	-	338525 398101
191	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A14NE (E)	898	-	340267 398418
192	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A8SE (S)	898	-	339520 397228
193	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1909	A7SE (SW)	919	-	339013 397296
194	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A9NE (E)	922	-	340276 397781
195	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A12NW (W)	972	-	338449 398130
196	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A19NW (NE)	976	-	339845 398998
197	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1928	A9NE (SE)	980	-	340283 397656

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
198	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A8SE (S)	980	-	339457 397141
199	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A8SW (S)	989	-	339165 397165
200	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A18NW (N)	997	-	339108 399066
201	Registered Landfill Sites Licence Holder: Liverpool City Council Licence Reference: 405/01 Site Location: Liverpool Municipal Golf Course, Valley Road, Kirkby, Liverpool, Merseyside Licence Easting: 339300 Licence Northing: 397800 Operator Location: The Mansion House, Calderstones Park, LIVERPOOL, Merseyside, L18 3JD Authority: Environment Agency - North West Region, South Area Site Category: Landfill Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Site exempt from licenceExempt Dated: 1st February 1993 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Approximate location provided by supplier Boundary Accuracy: Not Applicable Authorised Waste: Inert Uncontam. Soil Prohibited Waste: Waste N.O.S.	A13SW (S)	342	2	339300 397800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Triassic Rocks (Undifferentiated)	A13NE (N)	0	1	339420 398120
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (N)	0	1	339420 398120
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: <15 mg/kg	A13NE (NE)	18	1	339433 398132
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: <15 mg/kg	A13SW (SW)	115	1	339341 398037
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (NE)	119	1	339490 398215
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14NW (E)	581	1	340000 398120
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: <15 mg/kg	A8NE (S)	626	1	339500 397500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 120 - 180 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A17SE (NW)	656	1	338927 398553
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A9NW (SE)	688	1	340000 397751
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 90 - 120 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A9NW (SE)	778	1	339888 397500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 90 - 120 mg/kg Concentration: Lead Concentration: 300 - 600 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A9NW (SE)	850	1	340000 397500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 300 - 600 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A9NW (SE)	893	1	340028 397467
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A9NW (SE)	910	1	340085 397500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 120 - 180 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A12NW (W)	951	1	338529 398451
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	339420 398120
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	35	1	339443 398145
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	99	1	339358 398044
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	339420 398120
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	339420 398120
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	339420 398120
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	339420 398120
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	339420 398120
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	35	1	339443 398145
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	99	1	339358 398044
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	339420 398120
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	339420 398120

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
202	Contemporary Trade Directory Entries Name: Moran Engineering Ltd Location: 12, LYTHAM CLOSE, AINTREE, L10 1NF Classification: Electrical Engineers Status: Active Positional Accuracy: Automatically positioned to the address	A12SE (W)	577	-	338851 398024
203	Contemporary Trade Directory Entries Name: Vauxhall Cab Centre Ltd Location: Peplow Rd, Kirkby, Liverpool, Merseyside, L32 4SJ Classification: Gearboxes Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A19SW (NE)	632	-	339825 398604
204	Contemporary Trade Directory Entries Name: Hats By Stephanie Location: Liverpool, Merseyside, L10 1nb Classification: Hats & Caps - Manufacturers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A12SW (W)	756	-	338693 397913
204	Contemporary Trade Directory Entries Name: Enviro Chill Location: 133, Sherwoods Lane, Liverpool, L10 1NB Classification: Air Conditioning & Refrigeration Contractors Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	796	-	338656 397900
205	Contemporary Trade Directory Entries Name: Shell Location: Longmoor Lane, Liverpool, Merseyside, L10 1LA Classification: Petrol Filling Stations Status: Active Positional Accuracy: Manually positioned to the address or location	A8SW (SW)	761	-	339114 397424
205	Contemporary Trade Directory Entries Name: Shell Location: Shell Motors, 650, Longmoor Lane, Field Lane Estate, L10 1LF Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (SW)	767	-	339100 397423
206	Contemporary Trade Directory Entries Name: Carpet Cleaning Location: 19, Oakham Drive, Liverpool, L10 8LR Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	789	-	338642 398245
207	Contemporary Trade Directory Entries Name: Vauxhall Cab Centre Location: Whitefield Drive, Liverpool, L32 0UX Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SW (NE)	795	-	339993 398671
207	Contemporary Trade Directory Entries Name: B P Service Station Location: WHITEFIELD DRIVE, WESTVALE, KIRKBY, L32 0UX Classification: Petrol Filling Stations Status: Active Positional Accuracy: Automatically positioned to the address	A19SW (NE)	795	-	339993 398671
207	Contemporary Trade Directory Entries Name: Westvale Service Station Location: Whitefield Drive, Liverpool, L32 0UX Classification: Petrol Filling Stations - 24 Hour Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SW (NE)	795	-	339993 398671
207	Contemporary Trade Directory Entries Name: Vauxhall Car Center Location: Whitefield Dr, Liverpool, Merseyside, L32 0UX Classification: Garage Services Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A19SW (NE)	795	-	339993 398671
208	Contemporary Trade Directory Entries Name: Fairway Motors Liverpool Ltd Location: Coplehouse Lane, Liverpool, L10 0AE Classification: Car Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A8SW (S)	833	-	339323 397294

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
209	Contemporary Trade Directory Entries Name: Lordsgate Batteries Location: 9, Edna Avenue, LIVERPOOL, L10 0AN Classification: Battery Manufacturers & Supplies Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SE (S)	935	-	339522 397191
210	Contemporary Trade Directory Entries Name: Aynre Soaps Location: 7, Rydal Close, Aintree, Liverpool, L10 8JX Classification: Cosmetic Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SW (NW)	948	-	338562 398525
211	Contemporary Trade Directory Entries Name: J & A Systems Ltd Location: 21, Grace Avenue, Liverpool, L10 0AW Classification: Cash Registers & Check-Out Equipment Status: Active Positional Accuracy: Automatically positioned to the address	A8SE (S)	985	-	339425 397136
212	Contemporary Trade Directory Entries Name: Select Air Services Ltd Location: 27, Satinwood Crescent, Liverpool, Merseyside, L31 1JX Classification: Air Conditioning & Refrigeration Contractors Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	991	-	339597 399095
213	Fuel Station Entries Name: Shell Fazakerley Location: Longmoor Lane , Fazackerley , Liverpool, Merseyside, L10 1LF Brand: SHELL Premises Type: Petrol Station Status: Open Positional Accuracy: Manually positioned to the address or location	A8SW (SW)	760	-	339114 397425
214	Fuel Station Entries Name: West Vale Service Station Location: Whitefield Drive Richard Hesketh Drive, Kirkby , Liverpool, Merseyside, L32 0UX Brand: Bp Premises Type: Petrol Station Status: Open Positional Accuracy: Automatically positioned to the address	A19SW (NE)	795	-	339993 398671
215	Fuel Station Entries Name: Copple House Service Station Location: Copplehouse Lane , Fazackerley , Liverpool, Merseyside, L10 0AE Brand: OBSOLETE Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Located by supplier to within 100m	A8SW (S)	861	-	339411 397260
216	Points of Interest - Commercial Services Name: A1 Windscreens (NW) Ltd Location: 20 Twigden Close, Liverpool, L10 1NG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12SE (SW)	716	10	338773 397814
217	Points of Interest - Commercial Services Name: West Vale Service Station Location: Whitefield Drive, Westvale, Kirkby, L32 0UX Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A19SW (NE)	795	10	339992 398671
217	Points of Interest - Commercial Services Name: Car Wash Location: Whitefield Drive, Liverpool, L32 0UX Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A19SW (NE)	795	10	339993 398671
217	Points of Interest - Commercial Services Name: Vauxhall Cab Centre Location: Whitefield Drive, Liverpool, L32 0UX Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A19SW (NE)	795	10	339992 398671

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
218	Points of Interest - Manufacturing and Production Name: Tank Location: L32 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A14SW (SE)	525	10	339848 397818
219	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A18NW (N)	939	10	339262 399045
219	Points of Interest - Manufacturing and Production Name: Works Location: L31 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A18NW (N)	939	10	339258 399045
220	Points of Interest - Manufacturing and Production Name: Works Location: L10 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A17NE (NW)	948	10	338943 398939
220	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A17NE (NW)	949	10	338943 398940
221	Points of Interest - Public Infrastructure Name: Outfall Location: L10 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	166	10	339308 398242
221	Points of Interest - Public Infrastructure Name: Outfall Location: L10 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	167	10	339304 398240
222	Points of Interest - Public Infrastructure Name: Outfall Location: L10 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	362	10	339147 398357
222	Points of Interest - Public Infrastructure Name: Weir Location: L10 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	372	10	339126 398348
222	Points of Interest - Public Infrastructure Name: Weir Location: L10 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	372	10	339127 398349
223	Points of Interest - Public Infrastructure Name: Refuse Tip Location: L10 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A18SW (NW)	642	10	339089 398670
223	Points of Interest - Public Infrastructure Name: Refuse Tip Location: L10 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A18SW (NW)	643	10	339090 398671

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
224	Points of Interest - Public Infrastructure Name: Fazakerley Junction Location: L10 Category: Public Transport, Stations and Infrastructure Class Code: Railway Stations, Junctions and Halts Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	734	10	338699 397985
225	Points of Interest - Public Infrastructure Name: Shell Fazakerley Location: 427 Longmoor Lane, Liverpool, L10 1LF Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A8SW (SW)	760	10	339114 397425
225	Points of Interest - Public Infrastructure Name: Shell Fazakerley Location: 427 Longmoor Lane, Field Lane Estate, L10 1LF Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A8SW (SW)	760	10	339114 397425
225	Points of Interest - Public Infrastructure Name: Shell Fazakerley Location: 427 Longmoor Lane, Liverpool, L10 1LF Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A8SW (SW)	760	10	339114 397425
226	Points of Interest - Public Infrastructure Name: Westvale Service Station Location: Whitefield Drive, Liverpool, L32 0UX Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A19SW (NE)	795	10	339993 398671
226	Points of Interest - Public Infrastructure Name: BP Service Station Location: Whitefield Drive, Westvale, Kirkby, L32 0UX Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A19SW (NE)	795	10	339993 398671
226	Points of Interest - Public Infrastructure Name: Westvale Service Station Location: Whitefield Drive, Liverpool, L32 0UX Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A19SW (NE)	795	10	339993 398671
226	Points of Interest - Public Infrastructure Name: West Vale Service Station Location: Whitefield Drive, Liverpool, L32 0UX Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A19SW (NE)	795	10	339992 398671
227	Points of Interest - Public Infrastructure Name: Weir Location: L10 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A17SW (NW)	823	10	338740 398584
227	Points of Interest - Public Infrastructure Name: Weir Location: L10 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A17SW (NW)	825	10	338740 398586
228	Points of Interest - Public Infrastructure Name: Outfall Location: L10 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A17SW (NW)	978	10	338614 398673
229	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A18NE (N)	721	10	339630 398809

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
229	Points of Interest - Recreational and Environmental Name: Playground Location: Melverley Road, L32 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A18NE (N)	728	10	339640 398813
230	Points of Interest - Recreational and Environmental Name: Play Area Location: L31 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A18NE (N)	956	10	339424 399076

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
231	Areas of Adopted Green Belt Authority: Knowsley Metropolitan Borough Council Plan Name: Proposal Map Status: Adopted Plan Date: 6th January 2016	A13NE (N)	0	6	339420 398120
232	Areas of Adopted Green Belt Authority: Sefton Metropolitan Borough Council Plan Name: Sefton Local Plan Core Strategy Status: Adopted Plan Date: 20th April 2017	A13NW (W)	324	11	339107 398200
233	Areas of Adopted Green Belt Authority: Liverpool City Council Plan Name: Liverpool Unitary Development Plan Status: Adopted Plan Date: 30th November 2002	A12SW (W)	938	12	338521 397854
234	Areas of Unadopted Green Belt Authority: Liverpool City Council Plan Name: Liverpool Local Plan Status: Submission Draft Plan Date: 22nd May 2018	A12SW (W)	937	12	338522 397854
235	Nitrate Vulnerable Zones Name: Alt Nvz Description: Surface Water Source: Environment Agency, Head Office	A13NE (N)	0	2	339420 398120

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Environment Agency - Head Office Sefton Metropolitan Borough Council - Environmental Health Department St Helens Metropolitan Borough Council - Environmental Protection Department West Lancashire District Council - Environmental Services Knowsley Metropolitan Borough Council - Department of Planning and Development Liverpool City Council - Liverpool Environmental Health & Trading Standards Division	November 2023 October 2017 October 2017 October 2017 September 2017 September 2017	Annually Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - North West Region	April 2025	Quarterly
Enforcement and Prohibition Notices Environment Agency - North West Region	March 2013	
Integrated Pollution Controls Environment Agency - North West Region	January 2009	
Integrated Pollution Prevention And Control Environment Agency - North West Region	April 2025	Quarterly
Local Authority Integrated Pollution Prevention And Control St Helens Metropolitan Borough Council - Environmental Health Department Liverpool City Council - Liverpool Environmental Health & Trading Standards Division Knowsley Metropolitan Borough Council - Environmental Health and Consumer Protection Division Sefton Metropolitan Borough Council - Environmental Health Department West Lancashire District Council - Environmental Health Department	December 2014 December 2015 January 2015 July 2015 October 2014	Variable Variable Variable Variable Variable
Local Authority Pollution Prevention and Controls St Helens Metropolitan Borough Council - Environmental Health Department Liverpool City Council - Liverpool Environmental Health & Trading Standards Division Knowsley Metropolitan Borough Council - Environmental Health and Consumer Protection Division Sefton Metropolitan Borough Council - Environmental Health Department West Lancashire District Council - Environmental Health Department	December 2014 December 2015 January 2015 July 2015 October 2014	Annual Rolling Update Annually Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements St Helens Metropolitan Borough Council - Environmental Health Department Liverpool City Council - Liverpool Environmental Health & Trading Standards Division Knowsley Metropolitan Borough Council - Environmental Health and Consumer Protection Division Sefton Metropolitan Borough Council - Environmental Health Department West Lancashire District Council - Environmental Health Department	December 2014 December 2015 January 2015 July 2015 October 2014	Variable Variable Variable Variable Variable
Nearest Surface Water Feature Ordnance Survey	April 2025	
Pollution Incidents to Controlled Waters Environment Agency - North West Region	January 2000	
Historical Prosecutions Environment Agency, North West Region	March 2013	Not Applicable
Registered Radioactive Substances Environment Agency - Head Office Environment Agency - North West Region	May 2023 May 2023	
Substantiated Pollution Incident Register Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	April 2025 April 2025 April 2025	Quarterly Quarterly Quarterly
Water Abstractions Environment Agency - North West Region	April 2025	Quarterly
Water Industry Act Referrals Environment Agency - North West Region	October 2017	

Agency & Hydrological	Version	Update Cycle
Groundwater Vulnerability Map Environment Agency - Head Office	June 2018	As notified
Bedrock Aquifer Designations Environment Agency - Head Office	January 2018	As notified
Superficial Aquifer Designations Environment Agency - Head Office	January 2018	As notified
Source Protection Zones Environment Agency - Head Office	September 2022	Bi-Annually
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	December 2023	As notified
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	December 2023	As notified
Areas Benefiting from Flood Defences Environment Agency - Head Office	February 2023	
Flood Water Storage Areas Environment Agency - Head Office	January 2024	Quarterly
Flood Defences Environment Agency - Head Office	August 2022	
OS Water Network Lines Ordnance Survey	April 2025	Quarterly
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water Suitability Environment Agency - Head Office	February 2016	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	As notified
Water Framework Directive - Catchment Environment Agency - Head Office	July 2024	Annually
Water Framework Directive - Groundwater Environment Agency - Head Office	July 2024	Annually

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	November 2002	As notified
Historical Landfill Sites Environment Agency - Head Office	October 2024	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - North West Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	November 2024 November 2024 November 2024	Quarterly Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	April 2025 April 2025 April 2025	Quarterly Quarterly Quarterly
Local Authority Landfill Coverage Knowsley Metropolitan Borough Council Lancashire County Council - Waste Management Group Liverpool City Council - Liverpool Environmental Health & Trading Standards Division Merseyside Waste Disposal Authority Sefton Metropolitan Borough Council - Environmental Health Department St Helens Metropolitan Borough Council West Lancashire District Council - Environmental Health Department	February 2003 February 2003 February 2003 February 2003 February 2003 February 2003 February 2003	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Knowsley Metropolitan Borough Council Lancashire County Council - Waste Management Group Liverpool City Council - Liverpool Environmental Health & Trading Standards Division Merseyside Waste Disposal Authority Sefton Metropolitan Borough Council - Environmental Health Department St Helens Metropolitan Borough Council West Lancashire District Council - Environmental Health Department	October 2018 October 2018 October 2018 October 2018 October 2018 October 2018 October 2018	
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	
Registered Landfill Sites Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	March 2006 March 2006 March 2006	Not Applicable Not Applicable Not Applicable
Registered Waste Transfer Sites Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	April 2018 April 2018 April 2018	
Registered Waste Treatment or Disposal Sites Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	June 2015 June 2015 June 2015	

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	September 2024	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements Lancashire County Council Knowsley Metropolitan Borough Council St Helens Metropolitan Borough Council West Lancashire District Council Liverpool City Council Sefton Metropolitan Borough Council	April 2023 August 2015 February 2016 February 2016 January 2016 May 2023	Variable Variable Variable Variable Variable Variable
Planning Hazardous Substance Consents Knowsley Metropolitan Borough Council Lancashire County Council Sefton Metropolitan Borough Council St Helens Metropolitan Borough Council West Lancashire District Council Liverpool City Council	August 2015 February 2016 February 2016 February 2016 February 2016 January 2016	Variable Variable Variable Variable Variable Variable

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	As notified
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	December 2015	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	April 2025	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB) Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011 November 2020	As notified
Coal Mining Affected Areas The Coal Authority - Property Searches	February 2023	
Mining Instability Ove Arup & Partners	June 1998	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	April 2020	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	November 2024	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	November 2024	Annually
Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	March 2025	Quarterly
Fuel Station Entries Green Street Advisor (UK) Ltd	February 2025	Quarterly
Points of Interest - Commercial Services PointX	March 2025	Quarterly
Points of Interest - Education and Health PointX	March 2025	Quarterly
Points of Interest - Manufacturing and Production PointX	March 2025	Quarterly
Points of Interest - Public Infrastructure PointX	March 2025	Quarterly
Points of Interest - Recreational and Environmental PointX	March 2025	Quarterly
Underground Electrical Cables National Grid	January 2024	

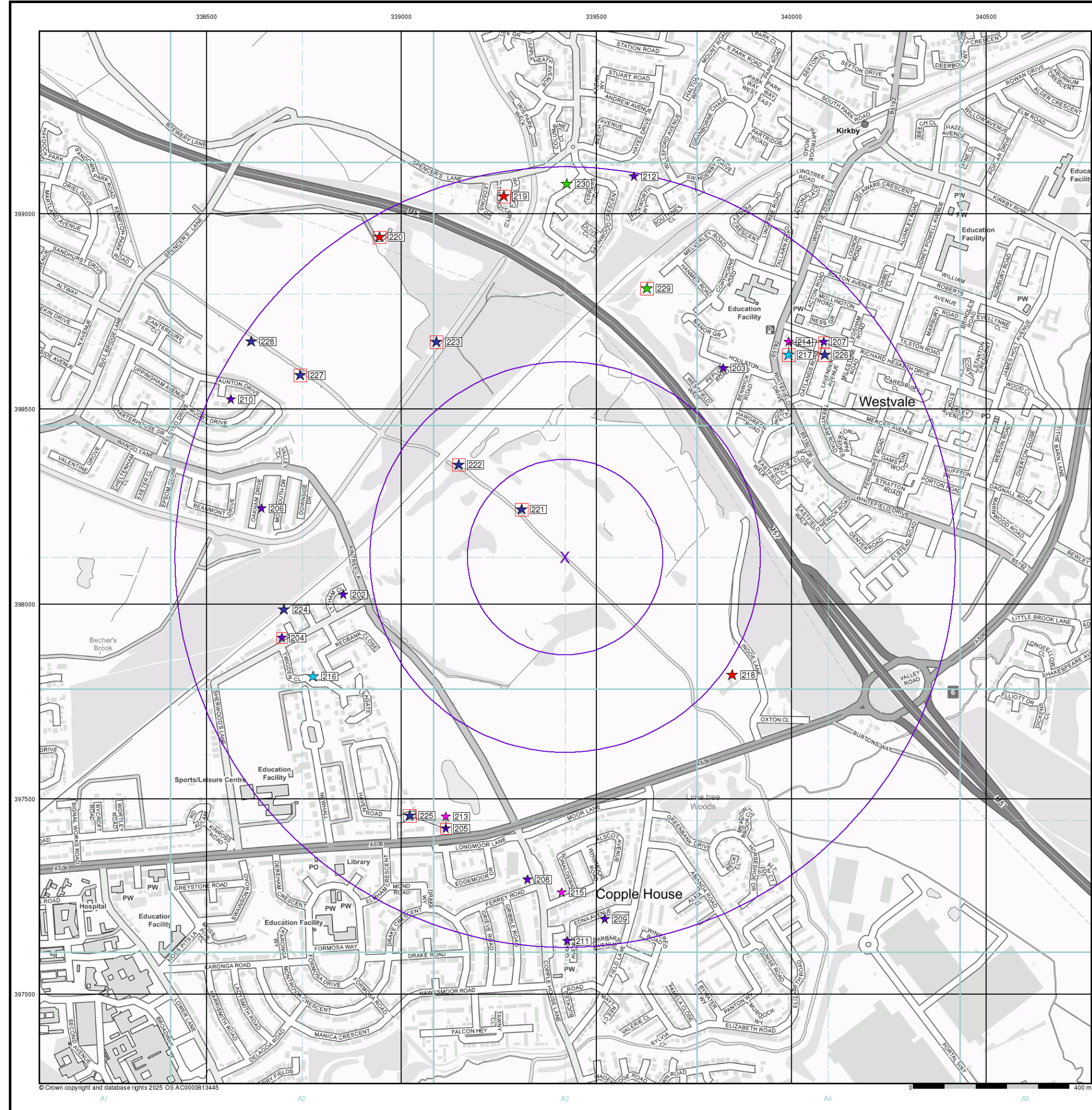
Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	March 2025	Bi-Annually
Areas of Adopted Green Belt Knowsley Metropolitan Borough Council Liverpool City Council Sefton Metropolitan Borough Council St Helens Metropolitan Borough Council West Lancashire District Council	July 2024 July 2024 July 2024 July 2024 July 2024	Quarterly Quarterly Quarterly Quarterly Quarterly
Areas of Unadopted Green Belt Knowsley Metropolitan Borough Council Liverpool City Council Sefton Metropolitan Borough Council St Helens Metropolitan Borough Council West Lancashire District Council	July 2024 July 2024 July 2024 July 2024 July 2024	Quarterly Quarterly Quarterly Quarterly Quarterly
Areas of Outstanding Natural Beauty Natural England	May 2025	Bi-Annually
Environmentally Sensitive Areas Natural England	August 2023	
Forest Parks Forestry Commission	May 2023	Not Applicable
Local Nature Reserves Natural England	March 2025	Bi-Annually
Marine Nature Reserves Natural England	February 2025	Bi-Annually
National Nature Reserves Natural England	January 2025	Bi-Annually
National Parks Natural England	September 2024	Bi-Annually
Nitrate Sensitive Areas Natural England	April 2023	Not Applicable
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA) Environment Agency - Head Office	April 2016 November 2024	Annually
Ramsar Sites Natural England	February 2025	Bi-Annually
Sites of Special Scientific Interest Natural England	November 2024	Bi-Annually
Special Areas of Conservation Natural England	January 2025	Bi-Annually
Special Protection Areas Natural England	May 2025	Bi-Annually

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	 Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Stantec UK Ltd	

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	Knowsley Metropolitan Borough Council - Environmental Health and Consumer Protection Division Municipal Buildings, Cherryfield Drive, Kirkby, Knowsley, Merseyside, L32 1TX	Telephone: 0151 443 4731 Fax: 0151 289 7488 Website: www.knowsley.gov.uk
4	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
5	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.co.uk
6	Knowsley Metropolitan Borough Council Archway Road, Huyton, Liverpool, Merseyside, L36 9YU	Telephone: 0151 489 6000 Fax: 0151 443 2298 Website: www.knowsley.gov.uk
7	Merseyside Waste Disposal Authority 2nd Floor, North House, 17 North John Street, Liverpool, Merseyside, L2 5QY	Telephone: 0151 2551444 Fax: 0151 2271848 Email: enquiries@merseysidewda.gov.uk
8	Sefton Metropolitan Borough Council - Environmental Health Department Balliol House, Bootle, Merseyside, L20 3AH	Telephone: 0151 934 4019 Fax: 0151 934 3587 Website: www.sefton.gov.uk
9	Liverpool City Council - Liverpool Environmental Health & Trading Standards Division Millenium House, 60 Victoria Street, Liverpool, Merseyside, L1 6LD	Telephone: 0151 233 3000 Email: environmental.health@liverpool.gov.uk Website: www.liverpool.gov.uk
10	PointX 5-6 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
11	Sefton Metropolitan Borough Council Magdalen House, 30 Trinity Road, Bootle, Merseyside, L20 3NJ	Telephone: 0151 922 4040 Fax: 0151 934 3587 Website: www.sefton.gov.uk
12	Liverpool City Council 5th floor, Steers House, Canning Place, Liverpool, Merseyside, L1 8JA	Telephone: 0151 227 3911 Fax: 0151 709 1481 Website: www.liverpool.gov.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Landmark Information Group, Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0330 036 6618 Fax: 0844 844 9951 Email: helpdesk@landmark.co.uk Website: www.landmark.co.uk

Please note that the Environment Agency / Natural Resources Wales / SEPA have a charging policy in place for enquiries.



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Industrial Land Use Map

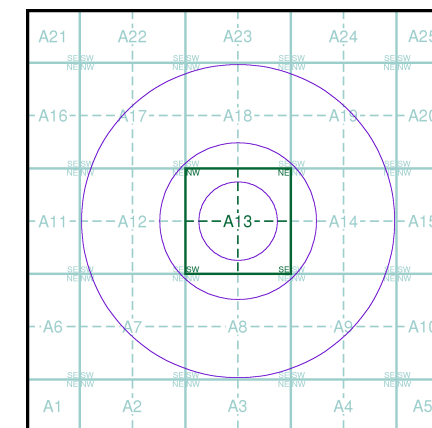
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- Points of Interest - Commercial Services
- Points of Interest - Education and Health
- Points of Interest - Manufacturing and Production
- Points of Interest - Public Infrastructure
- Points of Interest - Recreational and Environmental
- Underground Electrical Cables

Industrial Land Use Map - Slice A



Order Details

Order Number: 377524233_1_1
Customer Ref: ZZ25061
National Grid Reference: 339420, 398120
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

Kirkby Golf Club, Ingoe Lane, LIVERPOOL, L32 4SS

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INFORMATION GROUP

Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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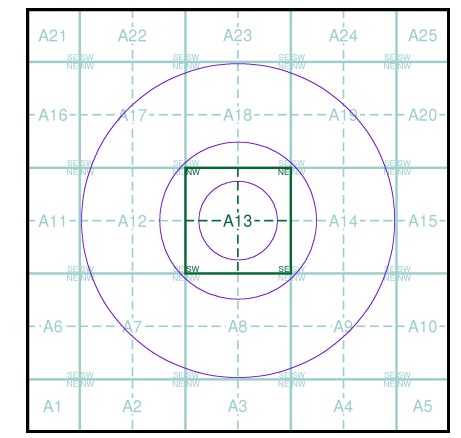
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Agency and Hydrological (Flood)

- Extreme Flooding from Rivers or Sea without Defences (Zone 2)
- Flooding from Rivers or Sea without Defences (Zone 3)
- Area Benefiting from Flood Defence
- Flood Water Storage Areas
- Flood Defence

Flood Map - Slice A

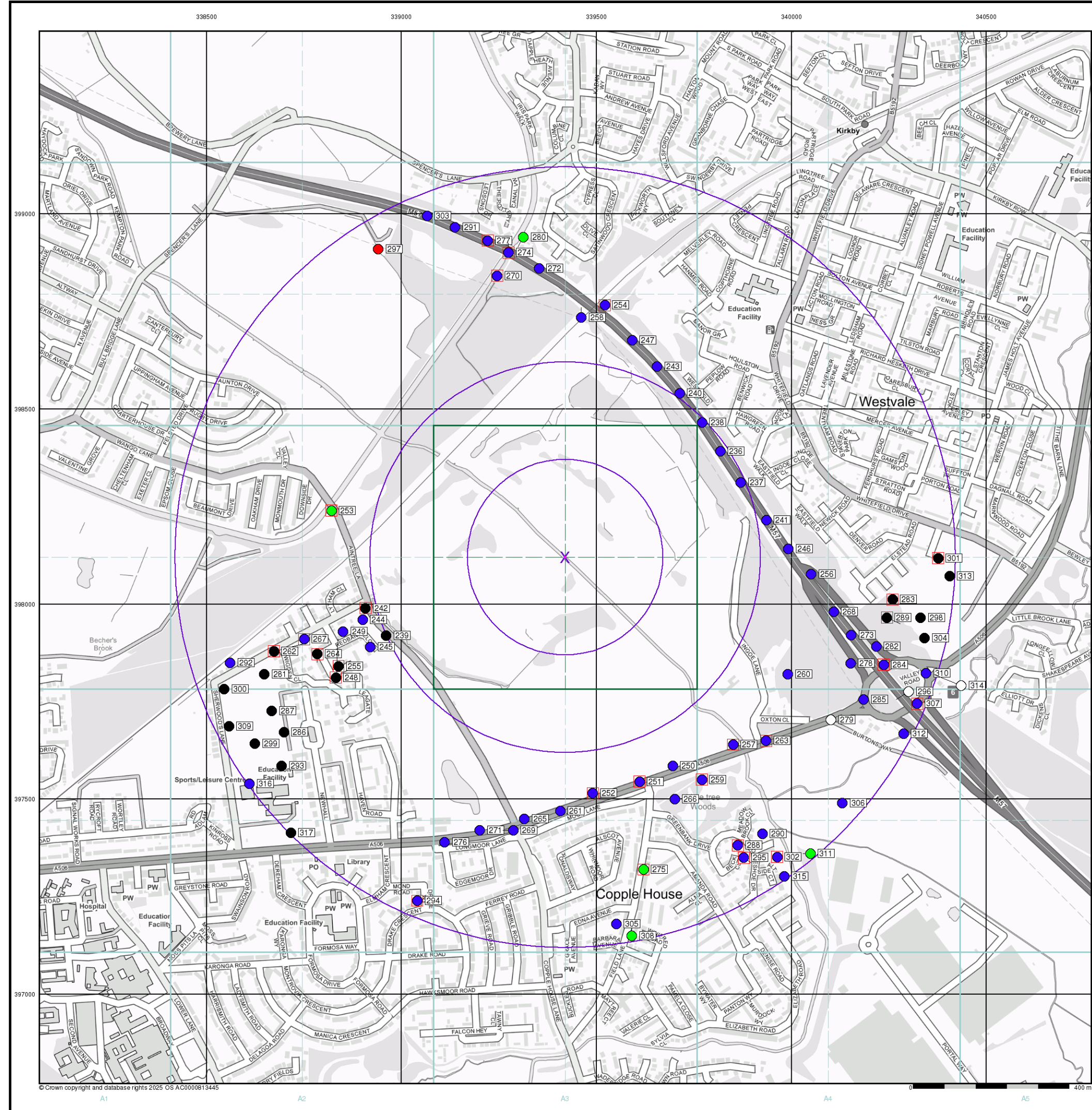


Order Details

Order Number: 377524233_1_1
Customer Ref: ZZ25061
National Grid Reference: 339420, 398120
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

Kirkby Golf Club, Ingoe Lane, LIVERPOOL, L32 4SS



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General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

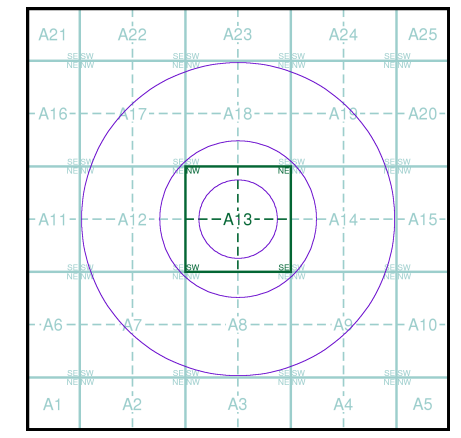
Agency and Hydrological (Boreholes)

- BGS Borehole Depth 0 - 10m
- BGS Borehole Depth 10 - 30m
- BGS Borehole Depth 30m +
- Confidential
- Other

For Borehole information please refer to the Borehole .csv file which accompanied this slice.

A copy of the BGS Borehole Ordering Form is available to download from the Support section of www.envirocheck.co.uk.

Borehole Map - Slice A

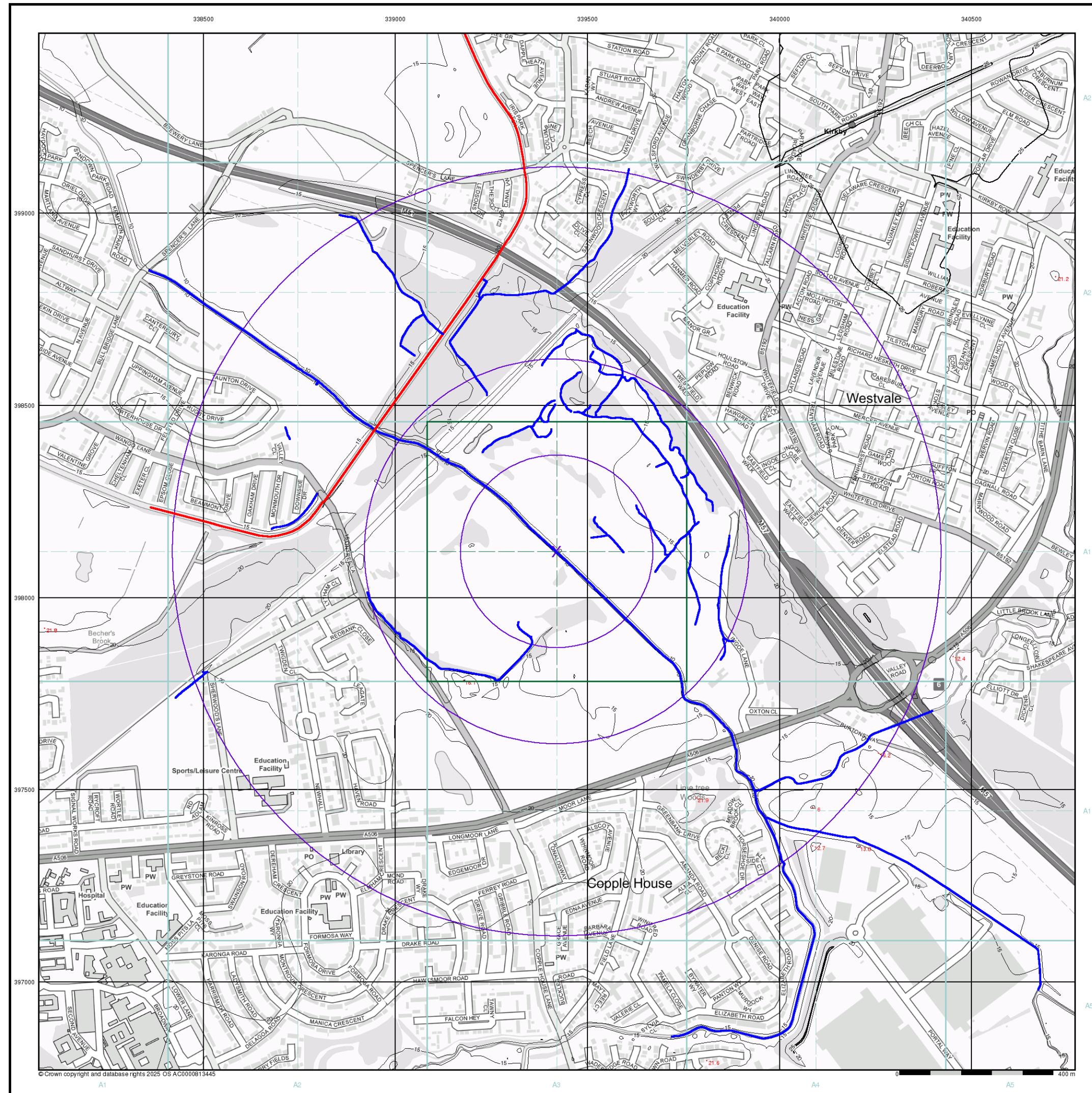


Order Details

Order Number: 377524233_1_1
Customer Ref: ZZ25061
National Grid Reference: 339420, 398120
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

Kirkby Golf Club, Ingoe Lane, LIVERPOOL, L32 4SS



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General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

OS Water Network Data

Canal	Drain
Reservoir	Other
Foreshore	Lake
Marsh	Transfer
Tidal River	Lock Or Flight Of Locks
Inland River	Sea

Contours (height in meters)

Standard Contour: 105, 100, 95

Master Contour: 105, 100, 95

Spot Height: 167.3

MLW: Mean Low Water

MHW: Mean High Water

OS Water Network Map - Slice A

Order Details

Order Number: 377524233_1_1
Customer Ref: ZZ25061
National Grid Reference: 339420, 398120
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

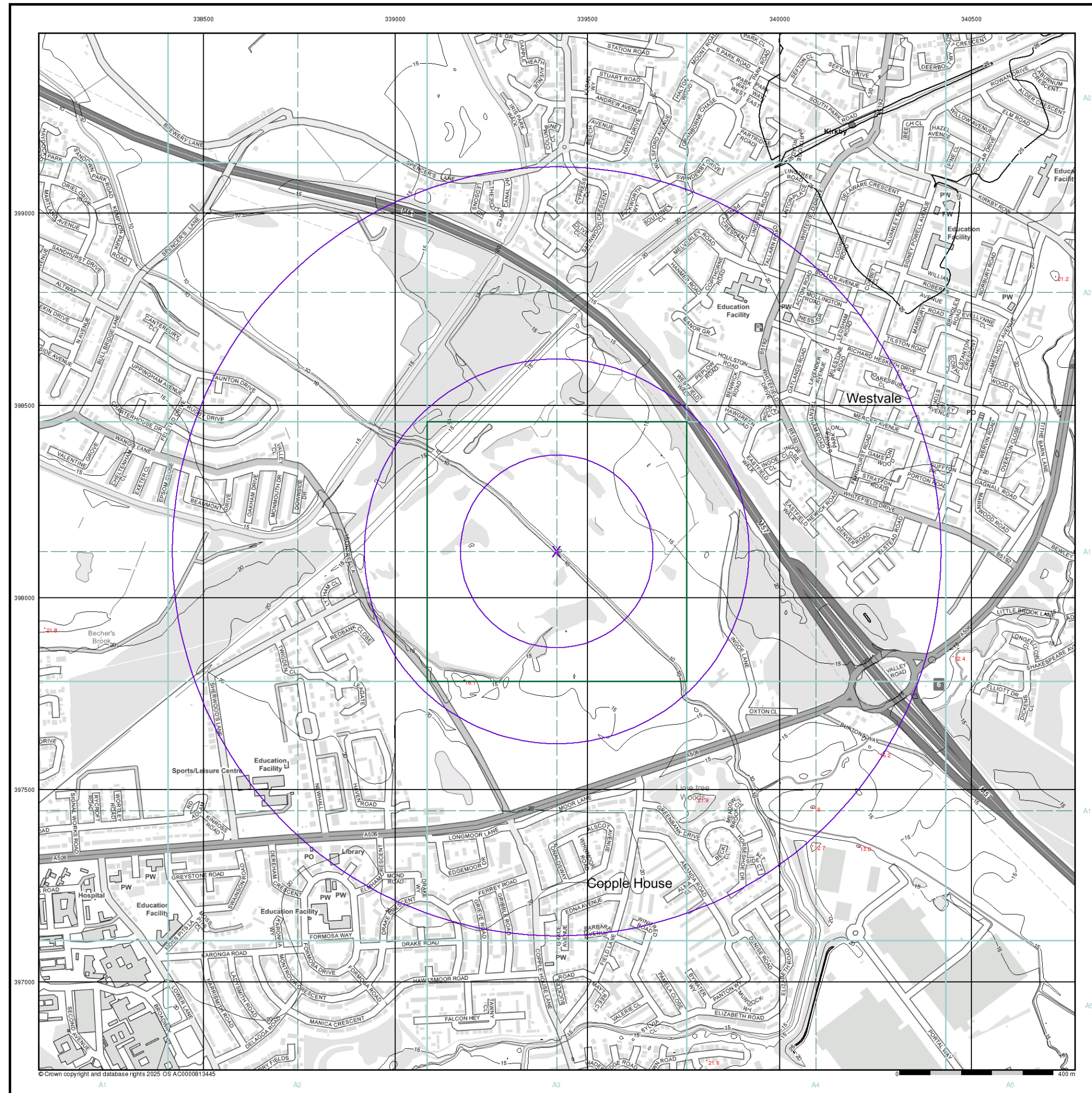
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A Landmark Information Group Service v50.0 23-May-2025 Page 5 of 7



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WFD Surface Waters Map

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

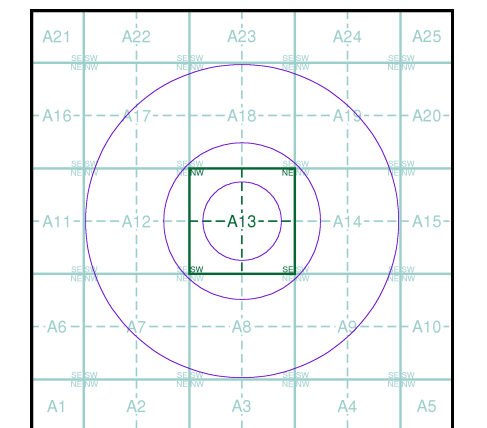
Water Framework Directive - Surface Water Quality

- High
- Good
- Moderate
- Poor
- Bad

Contours (height in meters)

- Standard Contour
- Master Contour
- Spot Height
- MLW - Mean Low Water
- MHW - Mean High Water

WFD Surface Waters Map - Slice A

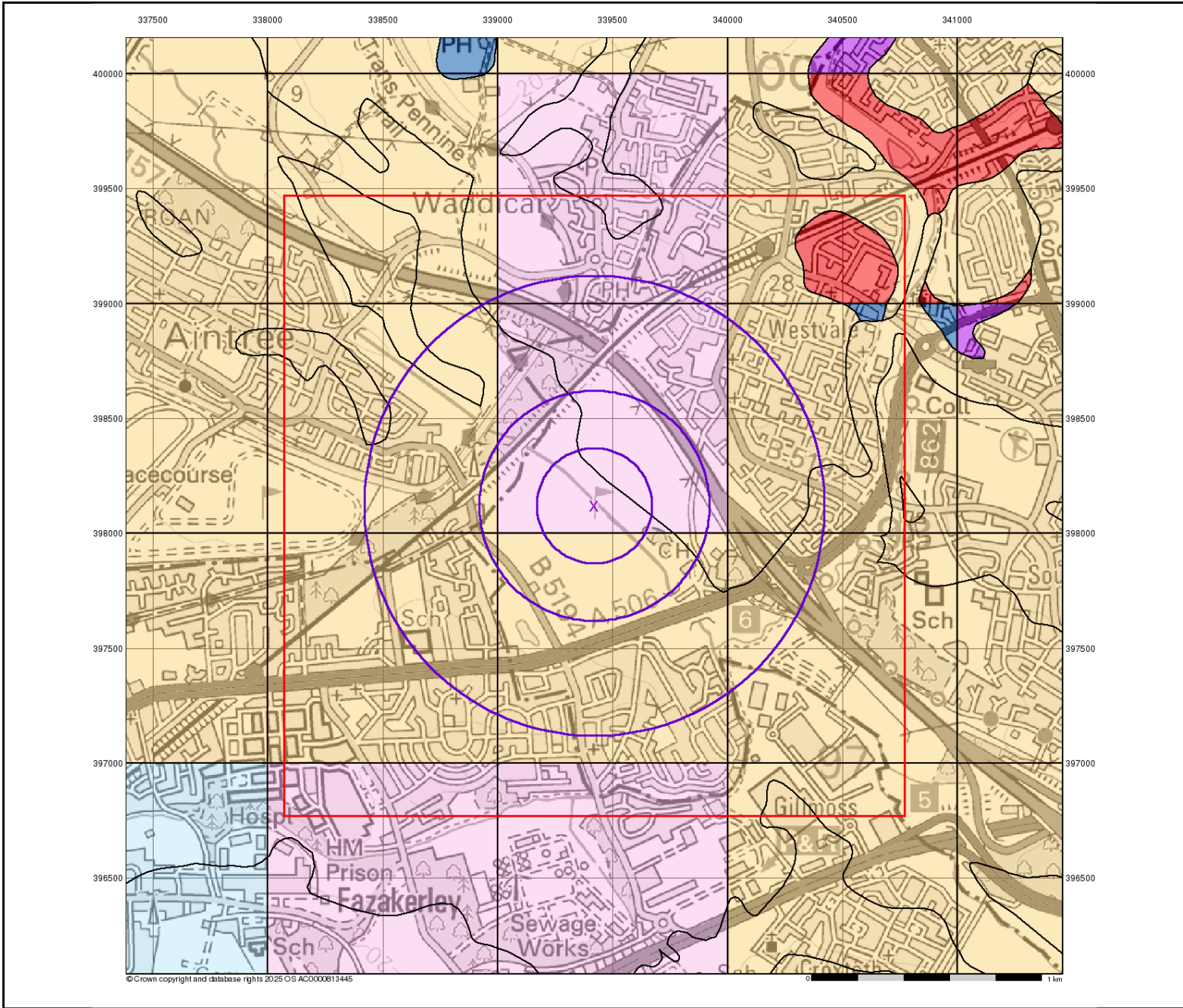


Order Details

Order Number: 377524233_1_1
Customer Ref: ZZ25061
National Grid Reference: 339420, 398120
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

Kirkby Golf Club, Ingoe Lane, LIVERPOOL, L32 4SS



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Groundwater Vulnerability

General

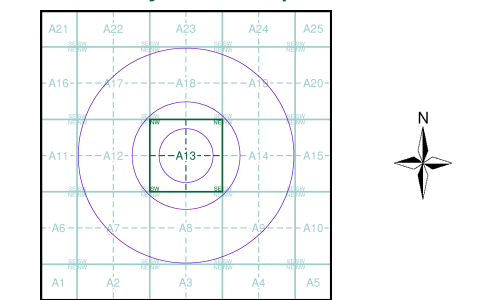
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

- | Bedrock Aquifers | Superficial Aquifers |
|---|---|
| High Vulnerability, Principal Aquifer | High Vulnerability, Principal Aquifer |
| High Vulnerability, Secondary Aquifer | High Vulnerability, Secondary Aquifer |
| Medium Vulnerability, Principal Aquifer | Medium Vulnerability, Principal Aquifer |
| Medium Vulnerability, Secondary Aquifer | Medium Vulnerability, Secondary Aquifer |
| Low Vulnerability, Principal Aquifer | Low Vulnerability, Principal Aquifer |
| Low Vulnerability, Secondary Aquifer | Low Vulnerability, Secondary Aquifer |

- Unproductive Aquifer
- Soluble Rock

Site Sensitivity Context Map - Slice A



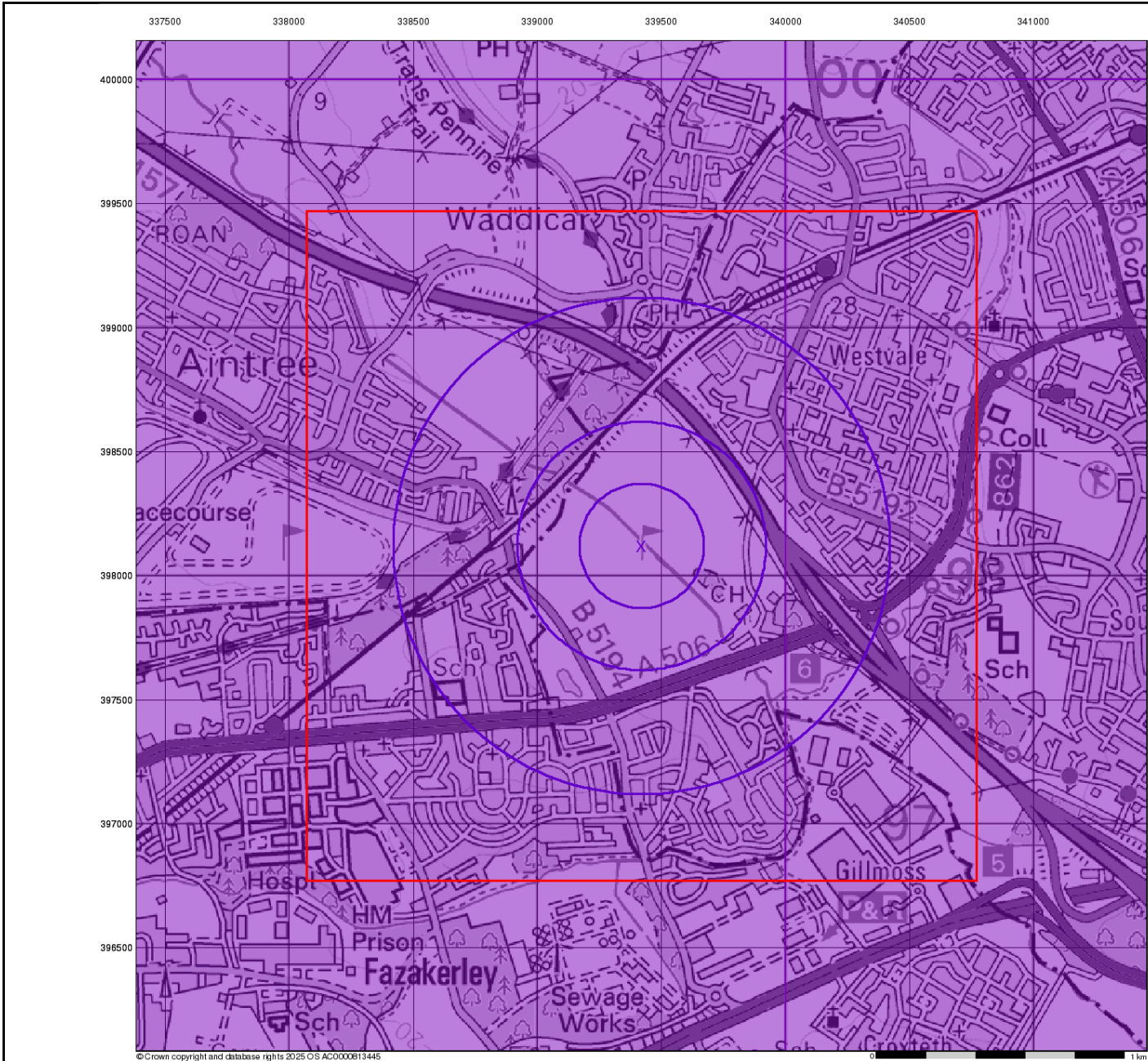
Order Details

Order Number: 377524233_1_1
Customer Ref: ZZ25061
National Grid Reference: 339420, 398120
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

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0 1 km

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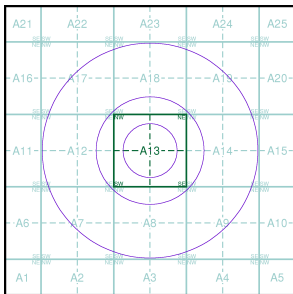
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Bedrock Aquifer Designation

- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Slice
 - Map ID

- Agency and Hydrological**
- Geological Classes**
- Principal Aquifer
 - Secondary A Aquifer
 - Secondary B Aquifer
 - Secondary Undifferentiated
 - Unproductive Strata
 - Unknown
 - Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice A



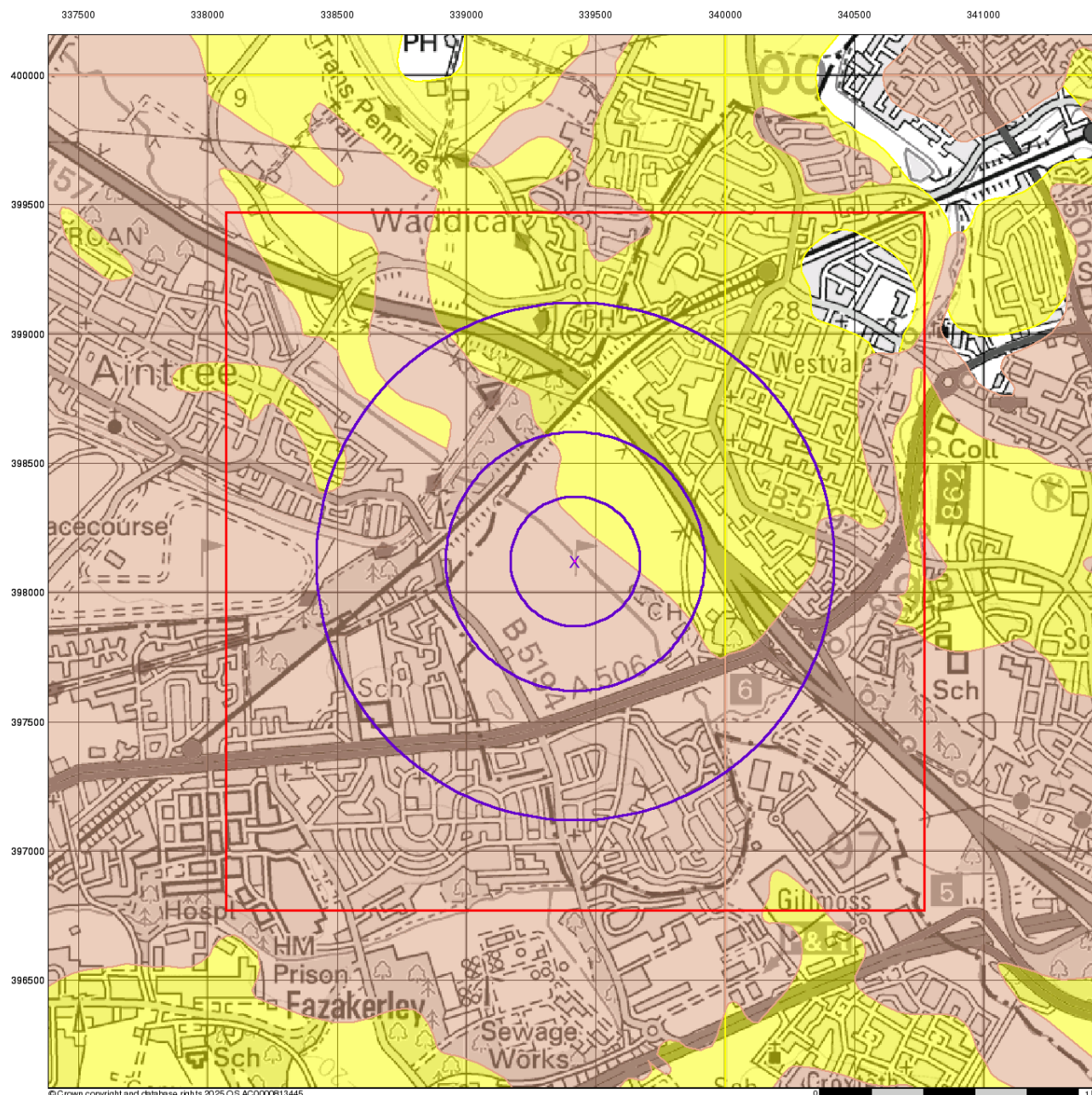
Order Details

Order Number: 377524233_1_1
Customer Ref: ZZ25061
National Grid Reference: 339420, 398120
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details
Kirkby Golf Club, Ingoe Lane, LIVERPOOL, L32 4SS

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0 1 km

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Superficial Aquifer Designation

General

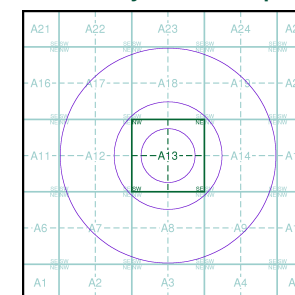
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 377524233_1_1
 Customer Ref: ZZ25061
 National Grid Reference: 339420, 398120
 Slice: A
 Site Area (Ha): 0.01
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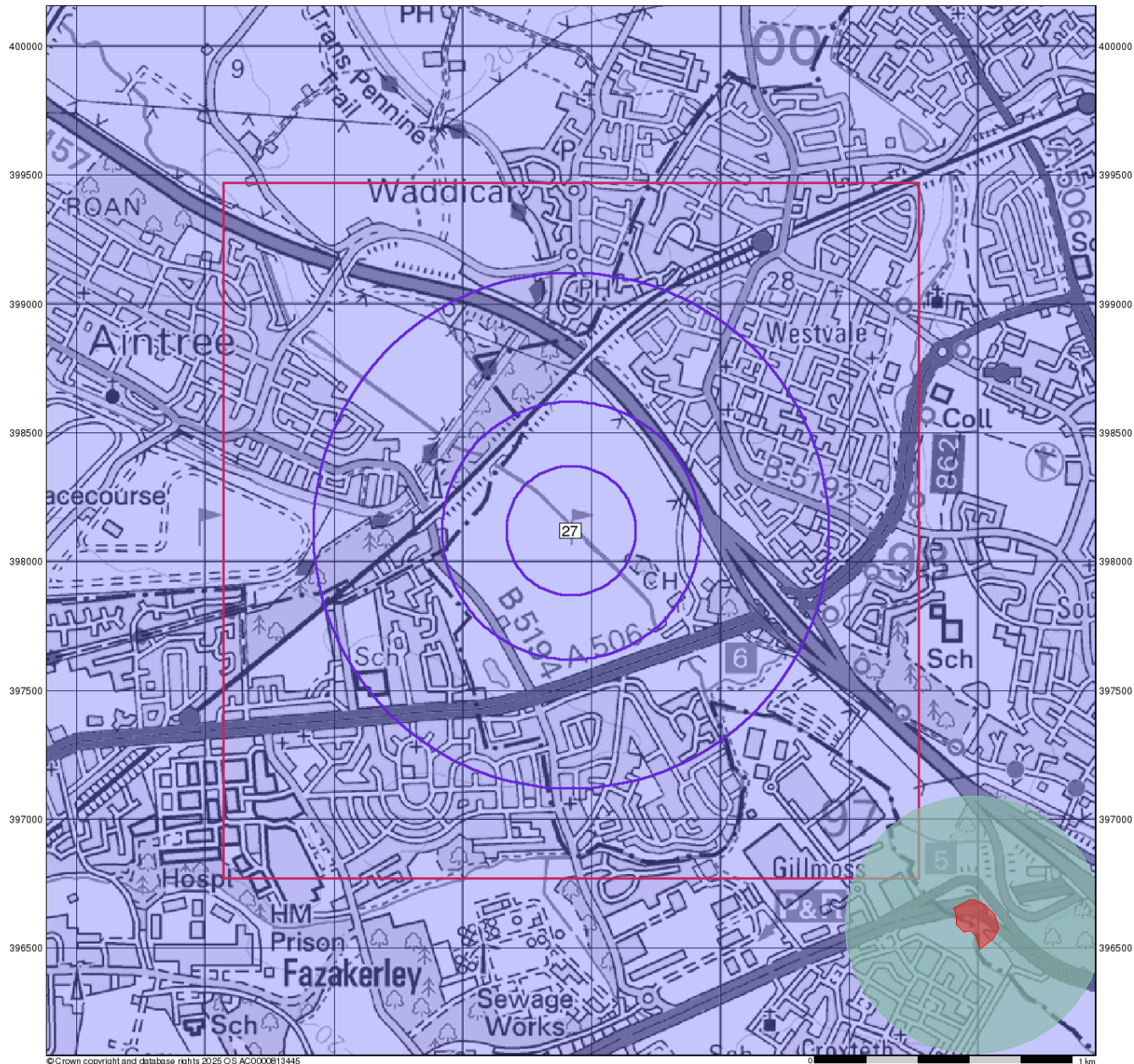
Site Details

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337500 338000 338500 339000 339500 340000 340500 341000



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0 1 km

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Source Protection Zones

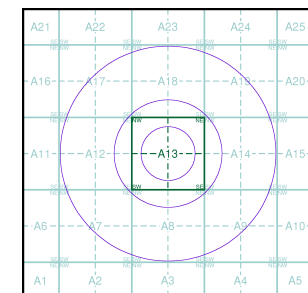
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

- Inner zone (Zone 1)
- Inner zone - subsurface activity only (Zone 1c)
- Outer zone (Zone 2)
- Outer zone - subsurface activity only (Zone 2c)
- Total catchment (Zone 3)
- Total catchment - subsurface activity only (Zone 3c)
- Special interest (Zone 4)

Site Sensitivity Context Map - Slice A



Order Details

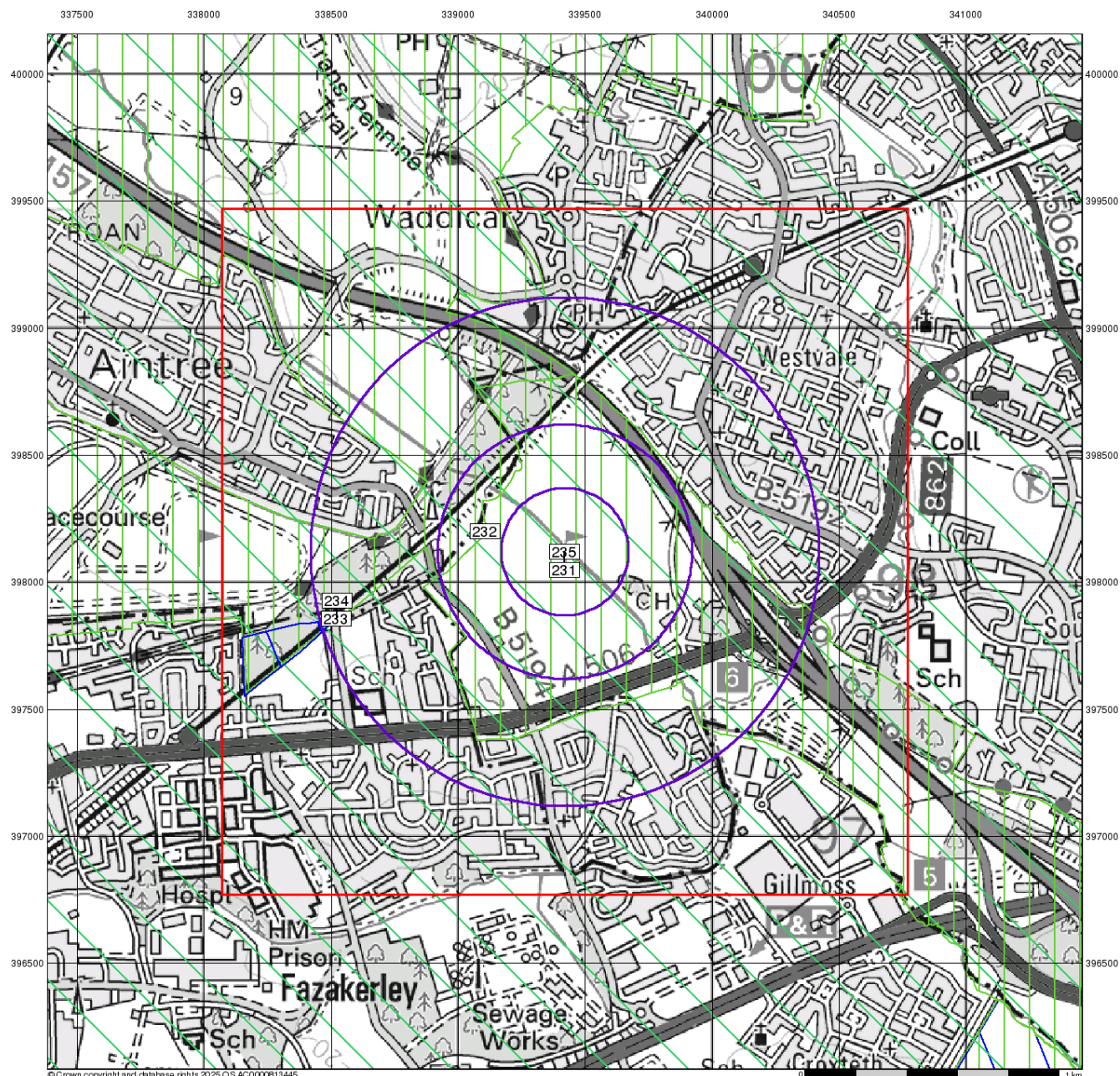
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Customer Ref: ZZ25061
National Grid Reference: 339420, 398120
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

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Sensitive Land Uses

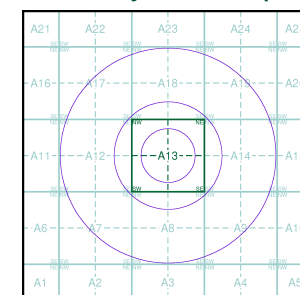
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Sensitive Land Uses

- Ancient Woodland
- Area of Adopted Green Belt
- Area of Unadopted Green Belt
- Area of Outstanding Natural Beauty
- Environmentally Sensitive Area
- Forest Park
- Local Nature Reserve
- Marine Nature Reserve
- National Nature Reserve
- National Park
- Nitrate Sensitive Area
- Nitrate Vulnerable Zone
- Ramsar Site
- Site of Special Scientific Interest
- Special Area of Conservation
- Special Protection Area
- World Heritage Sites

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 377524233_1_1
 Customer Ref: ZZ25061
 National Grid Reference: 339420, 398120
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

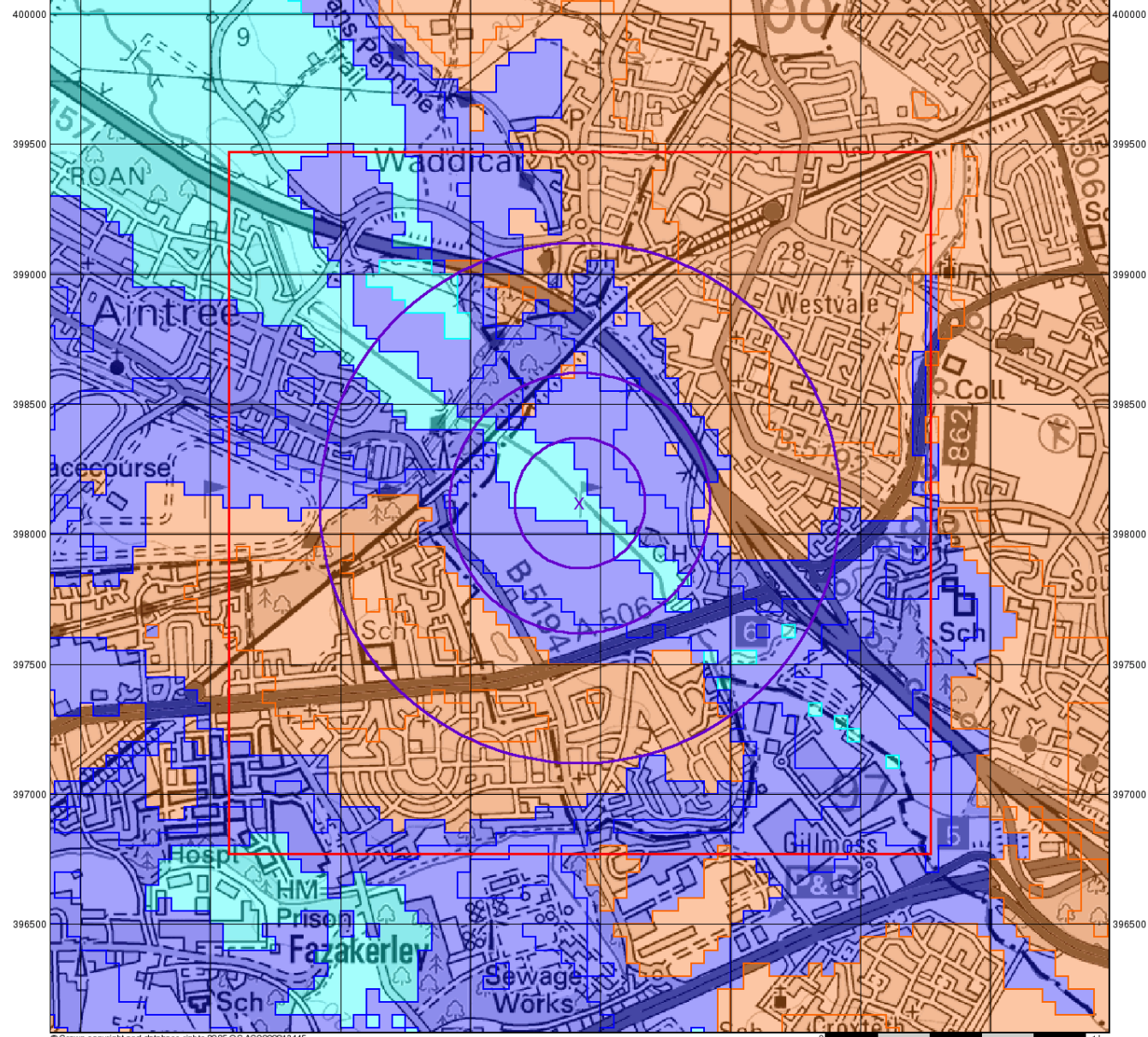
Site Details

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0 1 km

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BGS Flood GFS Data

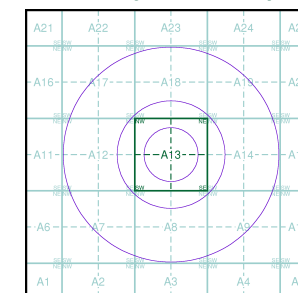
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice

Agency and Hydrological (Flood)

- Limited Potential for Groundwater Flooding to Occur
- Potential for Groundwater Flooding of Property Situated Below Ground Level
- Potential for Groundwater Flooding to Occur at Surface

Site Sensitivity Context Map - Slice A



Order Details

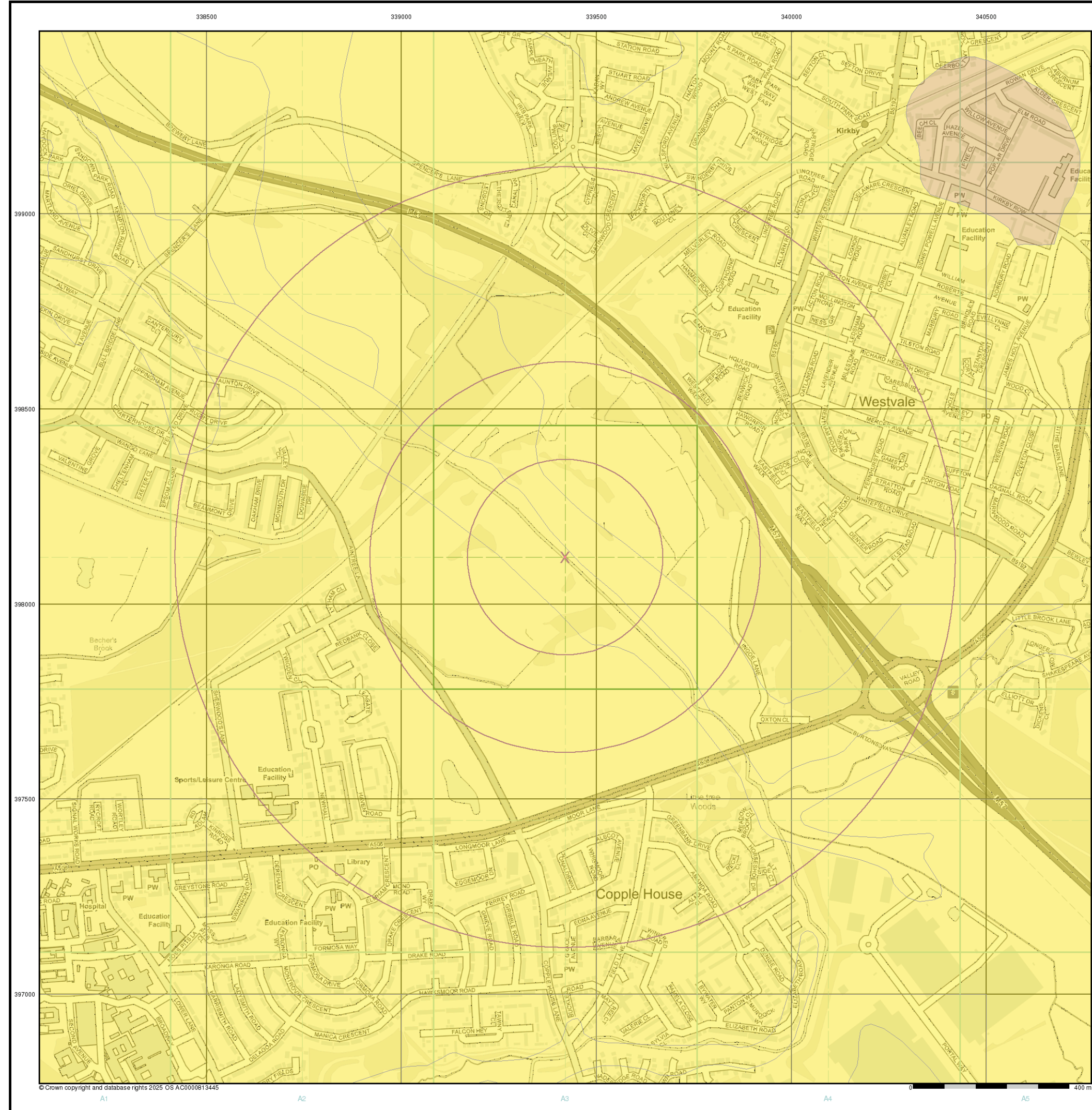
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Customer Ref: ZZ25061
National Grid Reference: 339420, 398120
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

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General

● Specified Site ● Specified Buffer(s) X Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg

< 15
15 - 25
25 - 35
35 - 45
45 - 60
60 - 120
> 120

Estimated Soil Chemistry Arsenic - Slice A

Order Details

Order Details:	377524233_1_1
Customer Ref:	ZZ25061
National Grid Reference:	339420, 398120
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details

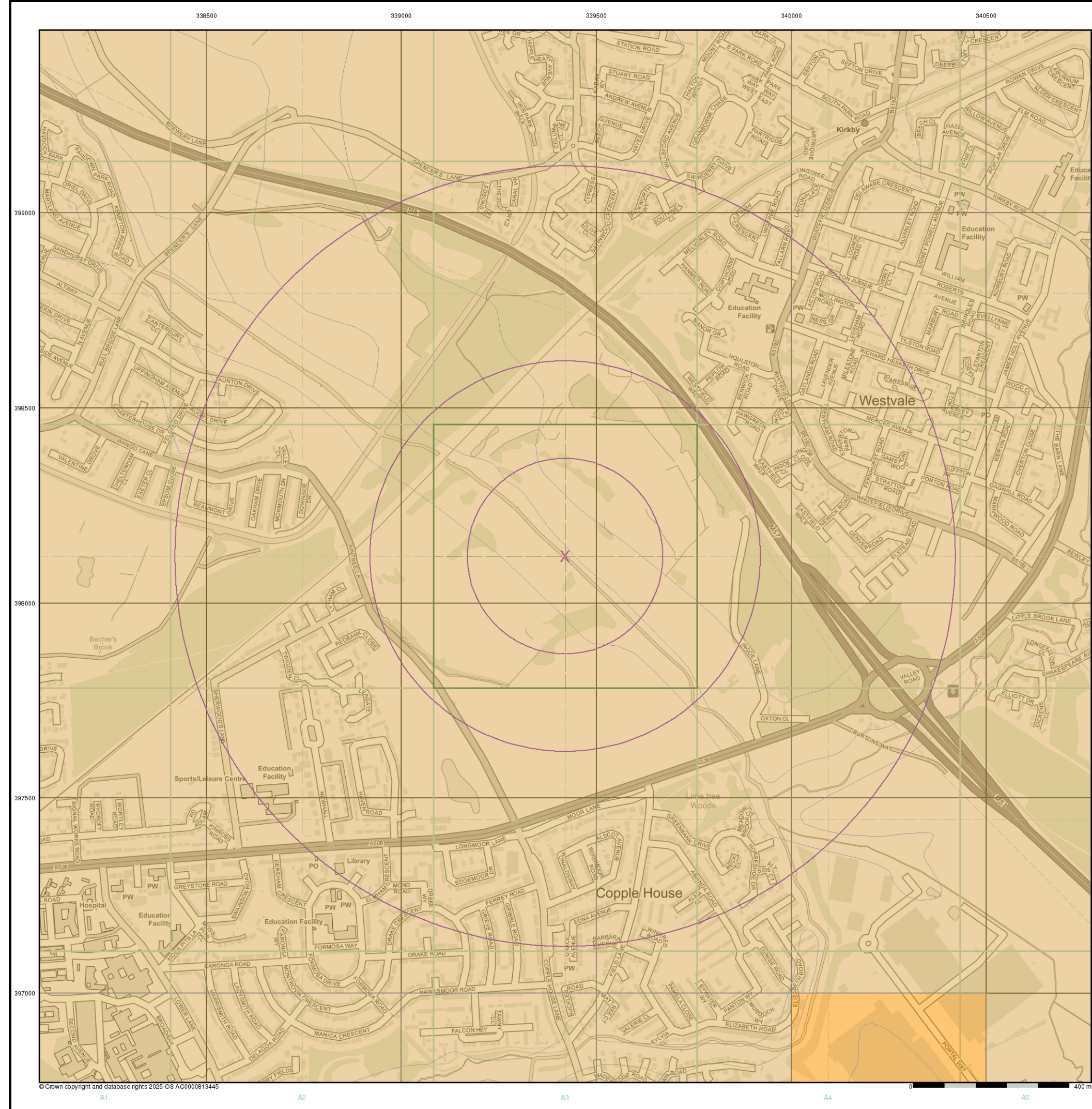
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General

📍 Specified Site 📏 Specified Buffer(s) ✕ Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg

< 1.8
1.8 - 2.2
2.2 - 3.0
> 3.0

Estimated Soil Chemistry Cadmium - Slice A

Order Details

Order Details:	377524233_1_1
Customer Ref:	ZZ25061
National Grid Reference:	339420, 398120
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details

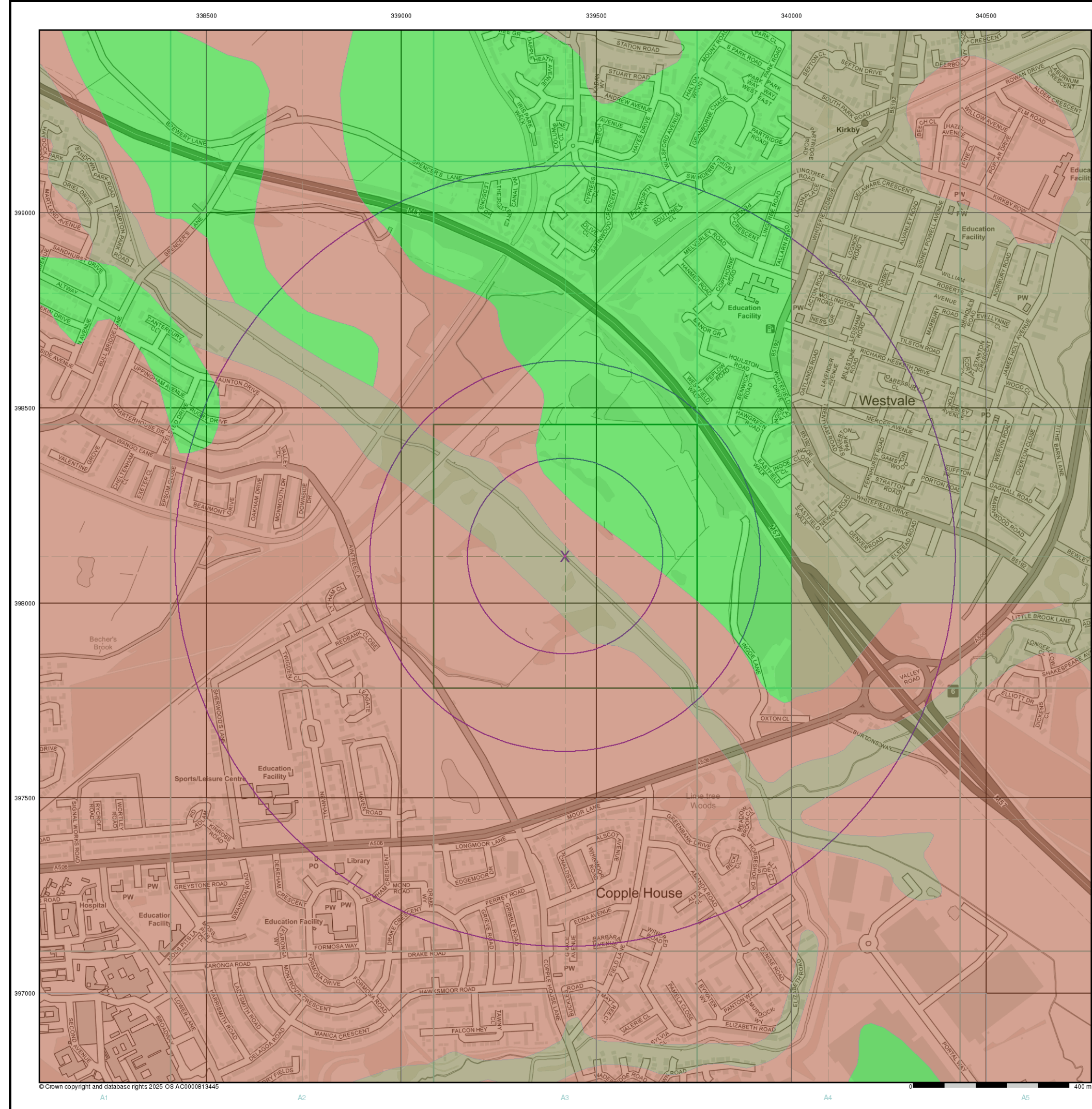
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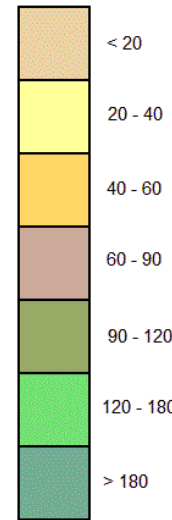
© Crown copyright and database rights 2025 OS AC0000813445

General

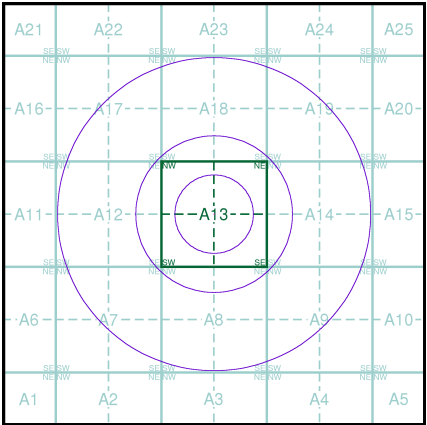
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg



Estimated Soil Chemistry Chromium - Slice A

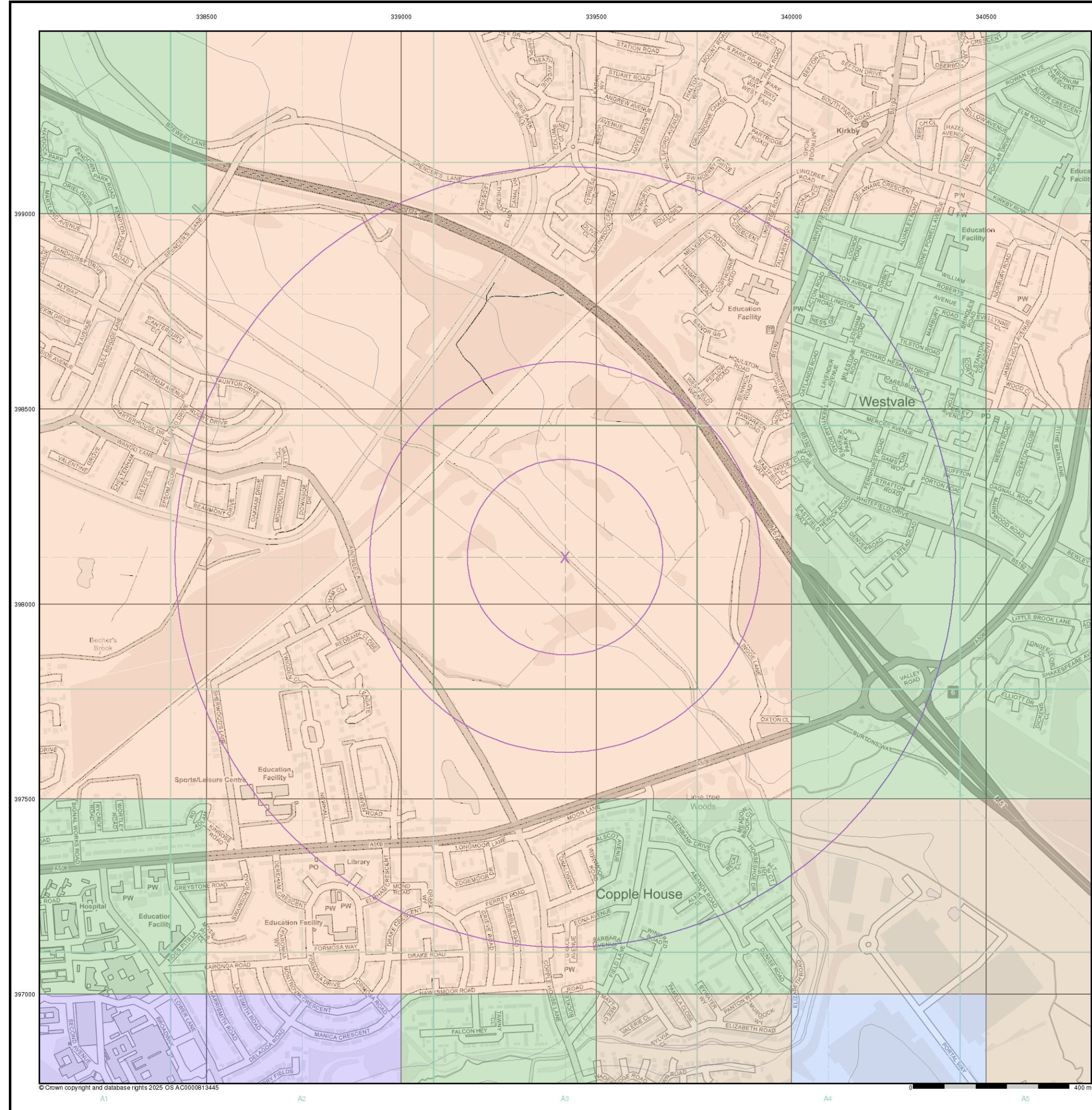


Order Details

Order Details: 377524233_1_1
Customer Ref: ZZ25061
National Grid Reference: 339420, 398120
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

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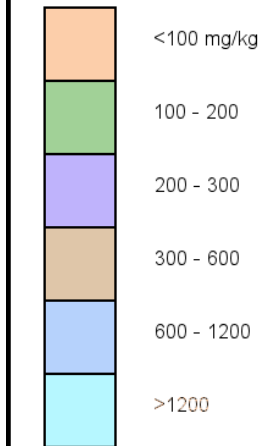
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General

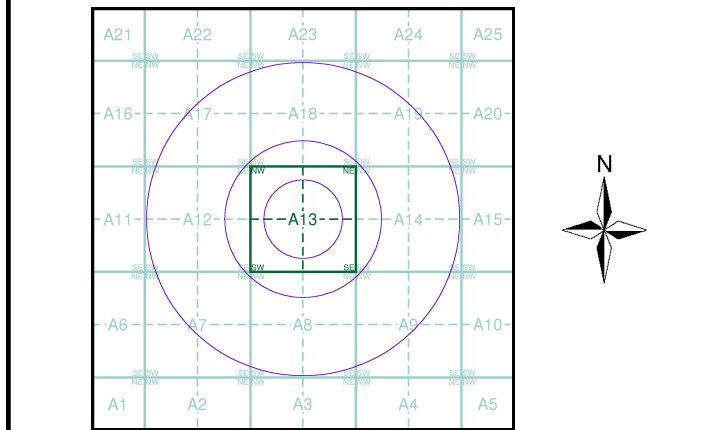
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg



Estimated Soil Chemistry Lead - Slice A

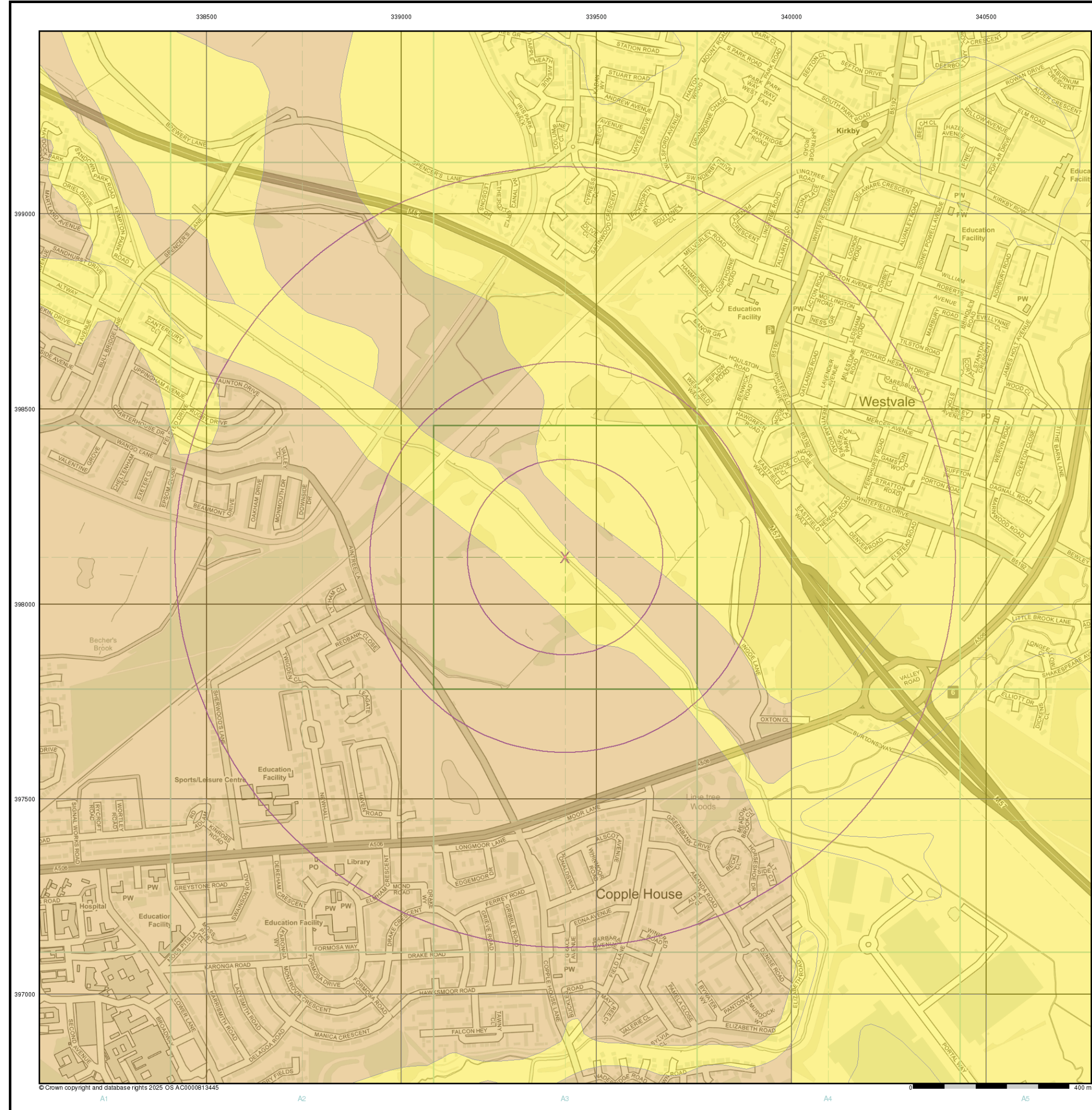


Order Details

Order Details: 377524233_1_1
Customer Ref: ZZ25061
National Grid Reference: 339420, 398120
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

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General

📍 Specified Site 📏 Specified Buffer(s) ✕ Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg

< 15
15 - 30
30 - 45
45 - 60
60 - 80
80 - 100
> 100

Estimated Soil Chemistry Nickel - Slice A

Order Details

Order Details:	377524233_1_1
Customer Ref:	ZZ25061
National Grid Reference:	339420, 398120
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details

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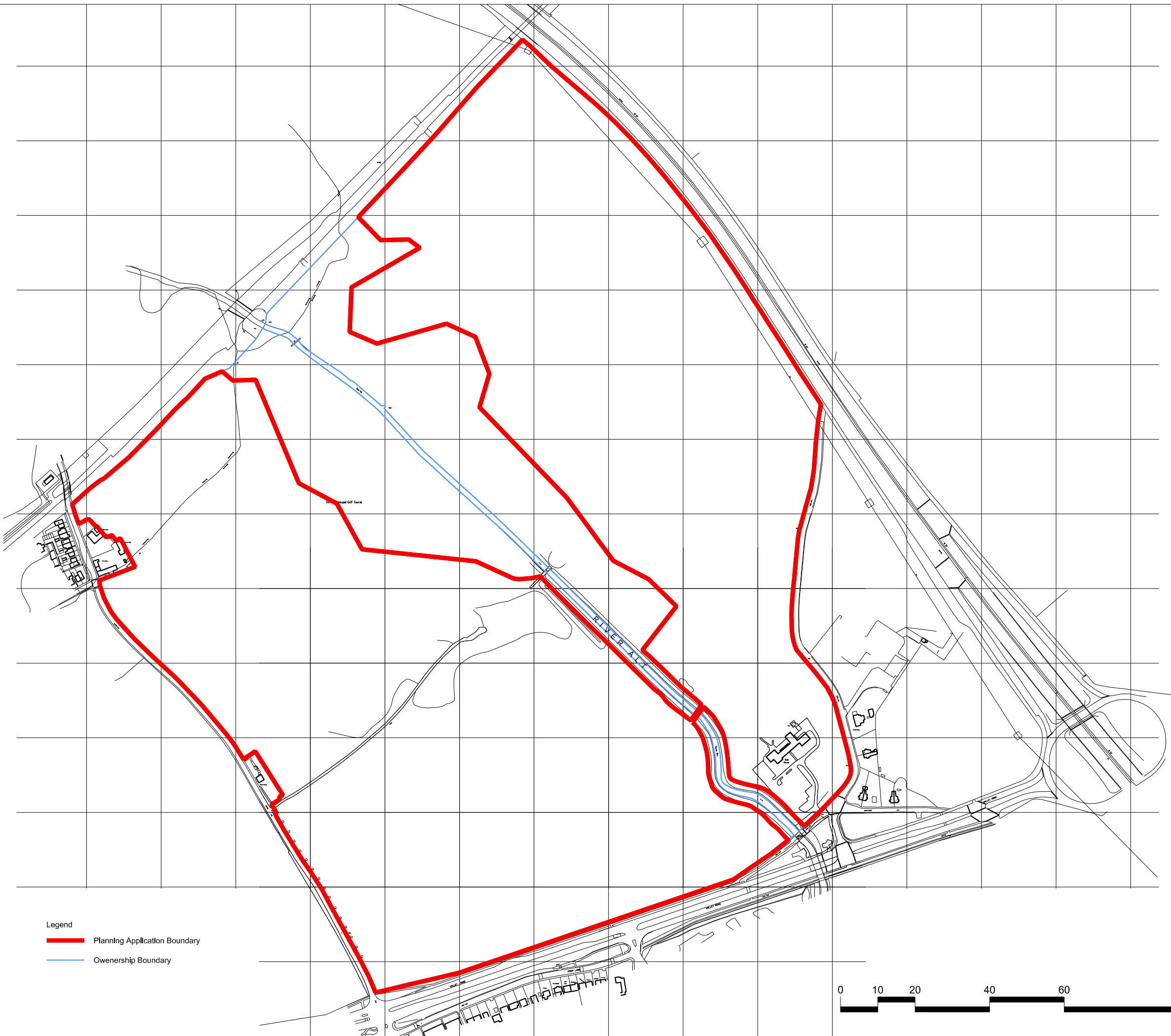
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A Landmark Information Group Service v50.0 23-May-2025 Page 5 of 5



APPENDIX E

DRAWINGS



- Legend
- Planning Application Boundary
 - Ownership Boundary

GENERAL NOTES				
01.				
02.				
03.				
04.				
05.				
REVISIONS				
REV	DATE	DESCRIPTION	REV BY	CHK BY
A	10.11.23	Boundary line brought 10m back from top of river	ATC	ATC

KEY PLAN

CONSULTANT



LEAD CONSULTANT

CLIENT

ISSUED FOR
Planning Application
100% submittal

PROJECT
Kirkby Valley Golf Club

DRAWING TITLE
000 Location Plan

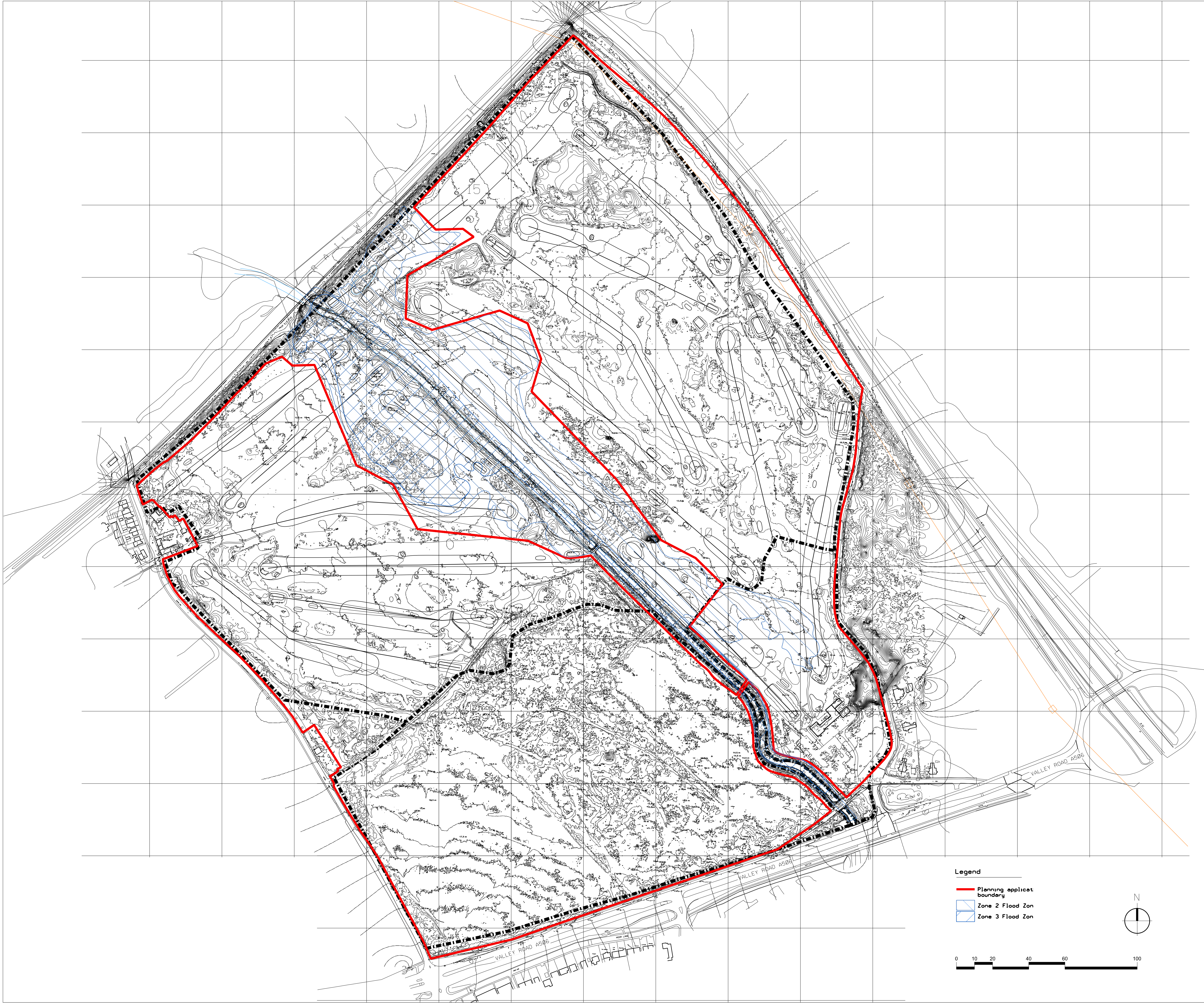
Drawn	PA	Checked	JH	Approved	AC
Date	13.02.23	Sheet Size	A3	Scale	1:5000
Drawing No. G935 000 LOCATION PLAN				Rev. A	

CAD File No.
G935 000

Consultant Project No.

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GENERAL NOTES

- 01.
- 02.
- 03.
- 04.
- 05.

REVISIONS

REV	DATE	DESCRIPTION	REV BY	CHK BY
A	10.11.23	Boundary line brought 10m back from top of river	ATC	ATC

KEY PLAN

CONSULTANT



LEAD CONSULTANT

CLIENT

Green Circle Estates

ISSUED FOR

Planning Application
100% submittal

PROJECT

Kirby Valley Golf Club

DRAWING TITLE

001 Existing Site Plan

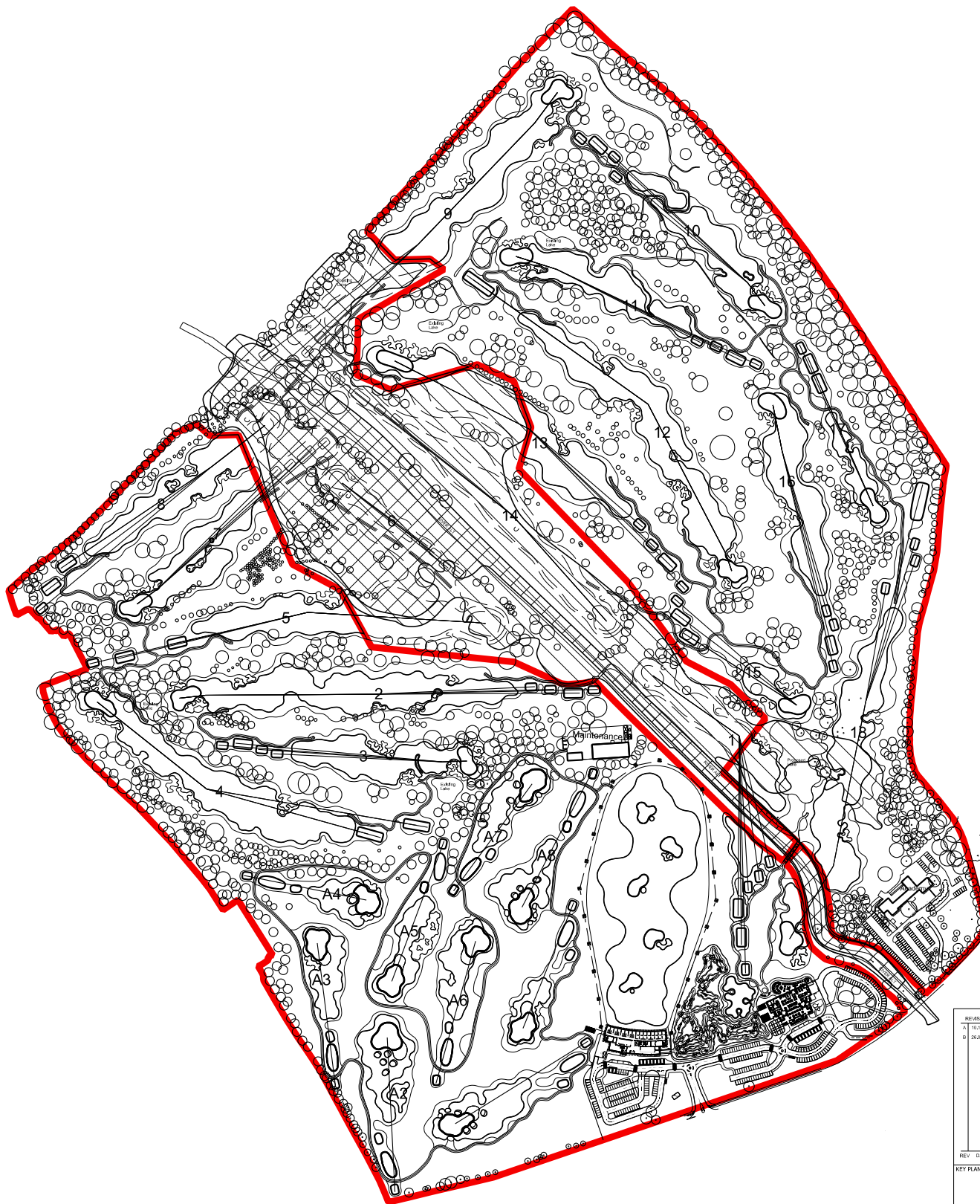
Drawn	PA	Checked	JH	Approved	AC
Date	13.02.23	Sheet Size	A1	Scale	1:2500
Drawing No.	G935 001 EXISTING SITE PLAN				Rev. A

CAD File No. G935 001

Consultant Project No.

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Scorecard - 9 Hole Course Academy

Hole	Meters	Yards	Par
1	167	183	3
2	165	181	3
3	154	168	3
4	172	188	3
5	165	181	3
6	180	197	3
7	134	147	3
8	134	147	3
9	170	186	3
Total out	1441	1576	27



REVISIONS			
A	16.07.23	Revised the layout	ATC
B	26.02.24	Then back from top of sheet	ATC
		for modification to car	SS
		park	ATC
REV	DATE	DESCRIPTION	REV BY
KEY PLAN			
CONSULTANT			
idg			
LEAD CONSULTANT			
CLIENT			
Green Circle Estates			
ISSUED FOR			
Planning Application			
PROJECT			
Kirkby Valley Golf Club			
DRAWING TITLE			
GSSS 002 PROPOSED MASTERPLAN - B&W			
Drawn	ATC	Checked	Approved
Date	03.05.23	Sheet Size	10000 @ A0
Drawing No.		Rev.	B
002 Proposed Masterplan - B&W			
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Scorecard - 9 Hole Course Academy

Hole	Meters	Yards	Par
1	167	183	3
2	165	181	3
3	154	168	3
4	172	188	3
5	165	181	3
6	180	197	3
7	134	147	3
8	134	147	3
9	170	186	3
Total out	1441	1576	27

GENERAL NOTES

01.
02.
03.
04.
05.

REVISIONS

REV	DATE	DESCRIPTION	REV BY	CHK BY
A	09/03/20	Amendments to Driving Range	PA	AC

KEY PLAN

CONSULTANT



LEAD CONSULTANT

CLIENT

ISSUED FOR

Planning Application
(90% submittal)

PROJECT

Kirkby Valley Golf Club

DRAWING TITLE

003 Proposed Masterplan - Colour

Drawn	ATC	Checked	ATC	Approved	ATC
Date	29.08.19	Sheet Size	A1	Scale	1:1250
Drawing No. G935 003 PROPOSED MASTERPLAN - COLOUR				Rev.	A
CAD File No.			Consultant Project No.		

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