



Maghull Methodist Church, Liverpool

Phase 1 Geo-environmental Assessment

For Central England Co-operative Limited

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Executive Summary

<i>SITE INFORMATION AND SETTING</i>	
Report title	Phase 1 Geo-environmental Assessment
Client	Central England Co-operative Limited
Site name	Maghull Methodist Church, Liverpool.
Location	Liverpool Road North, Maghull, Liverpool, L31 2HP
Proposed development	The proposed development includes the demolition of the existing buildings on site and construction of a new Co-op retail store with associated warehouse and car park.
<i>PHASE 1 GEO-ENVIRONMENTAL ASSESSMENT</i>	
Land Use	<p>The site is approximately 0.30 Hectares (Ha) in size and is generally rectangular in shape.</p> <p>The site is predominantly occupied by church buildings in the west with car parking and smaller buildings to the east. The site is accessed off Liverpool Road North in the north-west corner of the site. Areas of vegetation and occasional trees run along the southern, eastern, and south western boundaries of the site. Fencing and hedgerows separate the residential buildings adjacent to the northern boundary.</p> <p>Along the eastern section of the main church building a small outside enclosure is present which could have been utilized as above ground tank storage of Hydrocarbon Fuels.</p> <p>At the time of writing this report a site walk over has not been conducted.</p>
Site History	<p>From earliest OS plans dated 1849 the site is recorded as undeveloped agricultural land, with Maghull Brook running from the south-east corner to the centre of the site where it turns northwards to the northern boundary of the site. By 1893 a series of possible residential buildings occupy the south-western site area, whilst a wood and a building labelled 'Wesleyan Methodist Church' is seen in the north.</p> <p>Throughout 1937 – 1969 various stages of redevelopment occurred through construction and demolition of buildings on site, with the buildings now labelled as 'Maghull Methodist Church' with Maghull Brook presumed to have been culverted during these works.</p> <p>From 1974 two small structures are shown in the south-east corner and the site exists primarily as seen today.</p>
Geology	<p>From BGS plans significant thicknesses of Made Ground are not recorded beneath the site. However, Made Ground is anticipated associated with previous site history and demolition of former buildings.</p> <p>BGS plans record the majority of the site as being underlain by superficial deposits of the Shirdley Hill Sand Formation, which typically comprise windblown sands of moderately to well-sorted, fine-grained sand with peat layers in the lower part. There is also a potential for Alluvium deposits to be present below the eastern and northern site areas associated with the former route of Maghull Brook.</p> <p>BGS plans record the site as being underlain by bedrock deposits of the Sherwood Sandstone Group, which typically comprises sandstones and pebbly sandstones with lesser amounts of conglomerate and minor amounts of mudstone and siltstone.</p>
Environmental Setting	<ul style="list-style-type: none"> • Maghull Brook (stream) is culverted on-site with existing drainage information indicating this feature as running south-east to north, which flows in a general westerly direction below the adjacent Liverpool Road North. • The site is not located within an area recorded by the EA to be at risk from flooding from rivers or the sea. • The site is located within an area designated by the Environment Agency to be at a high risk (3.3% AEP) from surface water flooding within the north, central and southern sections of the site.

	<ul style="list-style-type: none"> The site is located within an area designated by the BGS with limited potential groundwater flooding at the surface to occur. The site has been identified as a nitrate vulnerable zone. Superficial deposits are classified as Secondary A Aquifer (Shirdley Hill Sand Formation) whilst the bedrock deposits are classified as a Principal Aquifer (Sherwood Sandstone Group). There are 3 no. recorded groundwater abstractions within 1km; located 732m north-west associated with extraction of surface water for cooling and manufacturing purposes; 808m north-east extraction of surface water associated for agricultural purposes; and 945m north-east associated with extraction of surface water for agricultural purposes. The site is located within a Zone 3 (Total Catchment) Source Protection Zone assumed to be associate with the Sherwood Sandstone Group. A Zone 1 (Inner Zone) Source Protection Zone is located around 2km north-east associated with abstraction of drinking water from wells located within the boundary of United Utilities Springfield Water Works. 2 no. historical discharge consents recorded within 250m; located 169m west associated with storm sewage overflow discharged to freshwater/ stream. There are 13 no. pollution incidents recorded within 250m; closest incident located 45m west associated with sewage to surface drains, category 2 incident, 1991. All other pollution incidents located from 161m – 238m, south to north-west associated with unknown, crude and storm sewages, natural causes and petrol and oils ranging from category 1 – 3 from 1992 - 1996.
Unexploded Ordnance (UXO)	<p>The regional unexploded bomb risk map obtained from Zetica UXO indicates the site as being located within a Low Risk area in relation to possible unexploded ordnance (UXO) resulting from WWII bombing (i.e. areas as indicated as having 50 bombs per 1000 acre or less), indicating that works can progress without the requirement for special precautions in this regard.</p> <p>The non-specialist UXO screening exercise also indicates that no further assessment is required with regard to UXO in relation to any future ground investigation works.</p>
Contamination	<p>From the preliminary assessment it is considered that the site presents a low environmental risk with respect to contamination, with the primary sources identified including Made Ground on site resulting from existing and previous site usage (i.e. demolition of former buildings) and possible Asbestos Containing Materials (ACMs) within the existing on site structures.</p>
Coal Mining	<p>The site is not located within a coal mining area with no risk in this regard.</p>
Ground Gas	<p>From the preliminary assessment the potential risk to this site from ground gas migration and/or production is considered to be very low to low. However, it is recommended that further assessment be completed as part of any future ground investigation works to confirm the level of potential risk.</p> <p>Radon protection measures are not required for this site.</p>
Preliminary Geotechnical Hazards	<p>The following plausible geotechnical risks are identified.</p> <ul style="list-style-type: none"> Variable Made Ground – settlement or differential settlement of foundations, floor slabs, roads and infrastructure elements. Low strength, compressible ground – risk of shear failure and excessive settlement of foundations. Attack of buried concrete by aggressive ground conditions – the development site may contain Made Ground and potentially sulphate bearing soils. Shrink/ swelling of clay – settlement/ heave of foundations, especially where locate within the influence of trees and vegetation. Potential for obstructions and the risk of instability of excavations with the impact of construction staff, vehicles and plant operators. Existing below ground structures – the presence of the culverted Maghull Brook within the north and east of the site – intrusive work including ground investigation, piling or ground improvement poses a potential risk to existing underground structures. Potential for unforeseen ground conditions and the risks associated with limited data.

	<ul style="list-style-type: none"> • Shallow/ changing groundwater conditions – the groundwater regime for the site is not yet quantified.
<p>Preliminary Foundations and Floor Slab recommendations</p>	<p>Following a review of the limited available information it is considered that conventional shallow foundations (strip or pad) could represent a viable solution for the proposed development, subject to the findings of ground investigation works to determine the nature of shallow ground conditions and confirmation of the location of the culverted Maghull Brook which could impact on the design of the development (including associated easement). The Ground investigation should also confirm whether potentially variable Alluvium deposits extend below the northern and eastern sections of the site.</p> <p>If conventional shallow foundations are determined to not represent a potentially viable option, then consideration may need to be given to the use of alternative solutions such as ground improvement or piles.</p> <p>From available information a ground bearing floor slab could represent a potentially viable solution for the proposed building. However, should significant thicknesses of Made Ground be identified and/or variable Alluvium deposits are confirmed as extending below the building footprint, a suspended floor slab may be required.</p>
<p>Further Investigations</p>	<ul style="list-style-type: none"> • Exploratory holes to allow the recovery of samples for laboratory testing and establish the shallow geological profile; • CCTV and Drainage Survey to confirm the route and depth culverted Maghull Brook; • Completion of targeted investigation works within the north and east of the site to aid in determining whether potentially variable Alluvium deposits extend below this area; • Installation of gas and groundwater monitoring wells, with appropriate ground gas monitoring; • Chemical testing and geotechnical testing; and • Production of interpretive Phase 2 Geo-environmental Assessment report including any recommendations for mitigation measures. <p>It is recommended that ground investigation works be undertaken to target the general area of the culverted Maghull Brook below the site and whether potentially variable Alluvium deposits extend below this area and to aid in confirming ground conditions below the site and to also address identified potential ground related issues.</p> <p>This should include as a minimum: mini-percussive boreholes to establish the shallow geological profile, appropriate chemical and geotechnical laboratory analysis (including for ground aggressivity), and the installation of gas and groundwater monitoring wells, with monitoring on an initial 4 no. occasions over a minimum 2 month period.</p>

This Executive Summary forms part of Hydrock report number 29112-HYD-XX-XX-RP-G-1000 and should not be used as a separate document.

1. INTRODUCTION

1.1 Commission

Hydrock Consultants Limited have been commissioned by DB3 Architecture, on behalf of Central England Co-operative Limited (the client), to carry out a Phase 1 Geo-Environmental Assessment for the proposed development at Maghull Methodist Church, Liverpool. This report highlights potential ground related environmental and geotechnical considerations in relation to the proposed development which is understood to include the demolition of the existing buildings and construction of a new Co-op retail store with associated warehouse and car park, details of which are provided on the proposed site plan (DB3, February 2023, Proposed Site Plan ref: 16091-DB3-B01-00-DR-A-90-002) included in **Appendix A**.

1.2 Objectives

This assessment has been produced to provide an initial assessment of potential geotechnical and geo-environmental conditions and constraints at the site and to support a planning application.

The primary objectives of this assessment are:

- To establish the historical development of the site and surrounding area.
- To establish the environmental and geological setting of the site.
- To assess the potential geotechnical constraints to the development.
- To assess the potential impact of subsurface mining on the development.
- To determine if historical or current activities could give rise to significant ground or groundwater contamination.
- To assess the potential for hazardous ground gas.

1.3 Scope

The scope of the Phase I Geo-environmental (Desk Study) Assessment includes an inspection of historical maps, a review of environmental data and other sources as indicated in the report, the findings of which have been used for the formulation of a preliminary ground and conceptual site model.

1.4 At the time of writing this report a site walkover has not been undertaken. Available Information

The following drawings have been provided to Hydrock by Central England Co-operative for use in the preparation of this report:

- DB3, February 2023, Proposed Floor Plans and Elevations, ref: 16091-DB3-B01-00-DR-A-20-001;
- DB3, February 2023, Existing Floor Plans and Elevations, ref: 16091-DB3-B01-00-DR-A-00-001;
- DB3, February 2023, Proposed Roof Plan, ref: 16091-DB3-B01-00-DR-A-27-001;
- DB3, February 2023, Existing Site Plan, ref: 16091-DB3-B01-00-DR-A-90-001;
- DB3, February 2023, Proposed Site Plan, ref: 16091-DB3-B01-00-DR-A-90-002;
- DB3, February 2023, Block and Location Plan, ref: 16091-DB3-B01-00-DR-A-90-003; and
- DB3, February 2023, Proposed Street Scenes, ref: 16091-DB3-B01-00-DR-A-90-005.

1.5 Regulatory context and guidance

The geo-environmental section of this report is written in broad agreement with BS 10175:2011+ A2:2017, 'Land Contamination: Risk Management' (LCRM, 2023) and the AGS (2006) 'Good Practice Guidelines for Site Investigations'. The methods used follow a risk-based approach, with the first stage being a Phase 1 desk study and field reconnaissance (this report), with the potential geoenvironmental risk assessed qualitatively in future report(s) using the 'source-pathway-receptor contaminant linkage' concept to assess risk as introduced in the Environmental Protection Act 1990 (EPA, 1990).

The geotechnical section of this report is prepared in general accordance with BS EN 1997 (EC7) and BS 8004:2015 + A1:2020.

Recommendation for further work is listed in section 8.

Reference to the technical details of the approach and the methodologies adopted are provided in Appendix E.

1.6 Uncertainties and Limitations

The report has been prepared by Hydrock for the use of Central England Co-operative Limited. Any third parties who use the information contained herein do so at their own risk. Hydrock shall not be responsible for any use of the report or its contents for any purpose other than that for which it was prepared or for use of the report by any parties not defined in Hydrock's appointment. If any unauthorised third party comes into possession of this report, they rely on it entirely at their own risk and Hydrock do not owe them any Duty of Care or Skill.

This report presents the factual information available during this appraisal, interpretation of the data obtained and recommendations relevant to the outlined scope of works. It has been assumed in the production of this report that the site is to be redeveloped for a commercial end use.

The report has been prepared by Hydrock on the basis of available information obtained during the study period. Although every reasonable effort has been made to gather all relevant information, not all potential environmental constraints or liabilities associated with the site may have been revealed. Responsibility cannot be accepted for any conditions not revealed and which have not been taken into account by this report.

Information provided by third parties has been used in good faith and is taken at face value; however, Hydrock cannot guarantee its accuracy or completeness. Where the existing report(s) prepared by others have been provided by the Client, it is assumed that these have been either commissioned by the Client, or can be assigned to the Client, and can be relied upon by Hydrock. Should this not be the case Hydrock should be informed immediately as additional work may be required. Hydrock is not responsible for any factual errors or omissions in the supplied data, or for the opinions and recommendations of others. It is possible that the conditions described may have since changed through natural processes or later activities.

At the time of writing this report a site walkover has not been undertaken.

This assessment has been carried out in general accordance with recognised best practice. Unless otherwise stated, no assessment has been made for the presence of radioactive substances or unexploded ordnance. Where the phrase 'suitable for use' is used in this report, it is in keeping with the terminology used in planning control and does not imply any specific warranty or guarantee offered by Hydrock.

Please note that notwithstanding any site observations concerning the presence or otherwise of archaeological sites, ecology, asbestos-containing materials or invasive weeds, this report does not constitute a formal survey of these potential constraints and specialist advice should be sought.

Any site boundary line depicted on plans does not imply legal ownership of land.

2. THE SITE

2.1 Data

A number of desk study sources have been used to assemble the following information. Where available these are presented in Appendix B, Appendix C and Appendix D and include:

- Third-party environmental report (Envirocheck report reference, (29122_GNEW_EC_A_Datasheet));
- BGS Onshore GeoIndex (<https://mapapps2.bgs.ac.uk/geoindex/home.html>);
- BGS Borehole Records (<https://www.bgs.ac.uk/information-hub/borehole-records/>);
- BGS maps portal (<https://www.bgs.ac.uk/information-hub/bgs-maps-portal/>);
- Zetica UXB Risk Maps (<https://zeticauxo.com/downloads-and-resources/risk-maps/>);
- Coal Authority Interactive Viewer (<http://mapapps2.bgs.ac.uk/coalauthority/home.html>); and
- Environment agency flood data (<https://flood-map-for-planning.service.gov.uk/>).

2.2 Location and Description

The site, centred on National Grid Reference 337336, 403189 and is located to the north-east of Liverpool Road North, on the northern extents of the town of Maghull, the closest postcode is L31 2HP. The site is approximately 0.30 Hectares (Ha) and generally rectangular in shape. A site location plan is included as **Drawing 29112-HYD-XX-XX-DR-GE-0001**. The site encompasses the area of the existing Maghull Methodist Church.

The site is predominantly occupied by the church buildings in the western section of the site with additional smaller buildings and garages with areas of car parking to the east. The main church buildings in the west is comprised of red brick and is in good condition whilst the building in the east appears to be constructed of corrugated sheet metal. The site is accessed off Liverpool Road North in the north-west corner of the site. Areas of vegetation and occasional trees run along the southern, eastern, and south western boundaries of the existing Methodist Church. Fencing and hedgerows separate the residential buildings adjacent to the northern boundary.

Along the eastern section of the main church building a small outside enclosure is present which could have been utilized as above ground tank storage of Hydrocarbon Fuels.

Aerial mapping shows a slight fall in gradient across the site from the east (17m) to the west (15m). Liverpool Road North (A59) is immediately adjacent to the west of the site with residential properties immediately adjacent in the north, east and south with these areas separated by wooden fencing and vegetation. Overhead cables are present running across the site entrance in the north-west corner of the site.

A summary of adjacent land uses is presented below:

Table 2.1: Summary of adjacent land use.

Direction	Comment
North	Residential housing with agricultural land 700m north.
South	Residential housing, a public house and commercial buildings (Maghull Shopping Centre) located 500m south.
East	Residential housing and Northway (A59) 550m east.

West	Liverpool Road North (A5147), Residential housing, Leeds and Liverpool canal (130m) and Agricultural land (420m).
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3. SITE HISTORY

3.1 General

In order to establish the site history, an inspection has been made of historical OS maps dating between 1849 and 2023. Where applicable, reference is also made to publicly available satellite imagery for the site and surrounding area. A summary of information is provided below with copies of the OS plans included in **Appendix B**. It is not the intention of this report to describe in detail all of the changes that have occurred on or adjacent to the site.

Table 3.1: Site History

Map Dates	On-Site Features	Relevant Off-Site Features
1849 – 1850	The site is recorded as undeveloped agricultural land with a possible stream/ path bisecting the central area running SE-N.	The site is encompassed by agricultural land, with small farm houses/ cottages. Liverpool Road North bounds the site to the west and the Liverpool and Leeds Canal is shown approximately 130m to the east
1893 - 1894	A wood occupies the north-western section of the site along with a newly constructed building labelled 'Wesleyan Methodist Church.' A series of possible residential buildings occupy the south-western site area. Maghull Brook, is shown to be bisecting the site, entering in the south east corner heading to the middle of the site where it then runs north to the northern boundary.	Coach and Horses Hotel is now approximately 100m to the south.
1908	Woods in the north-western section of the site are no longer present.	Generally as above.
1937- 1969	Small buildings in the central and eastern section of the site constructed and consequently demolished/ removed along with the possible residential buildings in the south. New buildings in the west, adjoining the existing building in the north, and east (labelled welfare centre) now present. The church is now labelled 'Maghull Methodist Church' Maghull Brook presumed culverted.	Large residential housing estates are now seen in all directions beyond the site boundaries.
1974 – 2023	Two new small buildings present in south-east.	Generally as above.

3.2 Summary

From earliest OS plans dated 1849 the site is recorded as undeveloped agricultural land, with Maghull Brook entering in the south east corner heading to the middle of the site where it then runs north to the northern boundary, as shown on Figure 3.1 below. By 1893 a series of possible residential buildings occupy the south-western site area, whilst a wood and a building labelled 'Wesleyan Methodist Church' is seen in the north. By 1908 the wooded area in the north is no longer present. Throughout 1937 – 1969 various redevelopment occurred through construction and demolition of buildings on site, with the buildings now labelled 'Maghull Methodist Church' and Maghull Brook appears to be culverted. A series of residential estates are

constructed surrounding the site. From 1974 two small structures are constructed in the south east corner and the site exists primarily as seen today.

Figure 3.1: Maghull Brook (1908 1:2500 map).



4. ENVIRONMENTAL SETTING

4.1 General

This section summarises the information collated within an Envirocheck search (report reference 312750026_1_1), included as **Appendix C**, which has been supplemented by the following information and publicly available data sources:

- British Geological Survey (BGS) Sheet 83 Formby, 1:50,000 Series, Solid & Drift Edition.
- BGS Sheet LA91SE, 1:10,560 Series.
- Zetica UXB Risk Map (<https://zeticauxo.com/downloads-and-resources/risk-maps/>).
- BGS Geo-index; <http://mapapps2.bgs.ac.uk/geoindex/home.html>.
- Coal Authority Interactive Viewer (<http://mapapps2.bgs.ac.uk/coalauthority/home.html>).

4.2 Geology and Mining

A summary of the site geology and mining, based on published information, is provided below:

Table 4.1: Geology and Mining

Geology	
Made Ground	From BGS plans significant thicknesses of Made Ground are not recorded beneath the site. However, Made Ground is anticipated associated with previous site history and demolition of former buildings.
Superficial (Drift) Geology	BGS plans record the site as being underlain by superficial deposits of the Shirdley Hill Sand Formation, which typically comprise windblown sands of moderately to well-sorted, fine-grained sand with peat layers in the lower part. There is also a potential for Alluvium deposits to be present below the eastern and northern site areas associated with the former route of Maghull Brook.
Bedrock (Solid) Geology	BGS plans record the site as being underlain by bedrock deposits of the Sherwood Sandstone Group, which typically comprises sandstones and pebbly sandstones with lesser amounts of conglomerate and minor amounts of mudstone and siltstone.
Mining	
Coal Mining	From Coal Authority data the site is not located within a coal mining area.
Quarrying and Surface Extraction	There are two recorded entries of quarrying or surface extraction activities recorded at 0.55km south and 0.80km south with the commodity listed as sandstone.

A fault, trending approximately north-west – south-east, is located approximately 30m east of the site. The Solid geological mapping for Sheet 83 Formby (1:50 000) show the fault with a downthrow to the south-west.

A borehole log from the BGS archive have been reviewed. The selected record is summarised below:

- SD30SE181 located 0.82km to the south-east of the site drilled to a depth of 4.00m below ground level (bgl) and recorded:
 - Made Ground comprising soil, ash, stone brick rubble and concrete between ground level and 1.50m;
 - Made Ground comprising loose ash fill between 1.50m and 3.60m bgl; and
 - Dark red to brown and grey sandstone between 3.60m and 4.00m bgl (probable Sherwood Sandstone Group).

4.3 Unexploded Ordnance (UXO)

As part of this report a UXO bomb risk map has been obtained from Zetica UXO, a copy of which is included in **Appendix D**. This map indicates the potential for unexploded bombs (UXB) to be present as a result of World War Two (WWII) bombing.

From the regional unexploded bomb risk map obtained from Zetica UXO the site is recorded as being located within a Low Risk area in relation to possible unexploded ordnance (UXO) resulting from WWII bombing (i.e. areas as indicated as having 50 bombs per 1000acre or less), indicating that works can progress without the requirement for special precautions in this regard.

To support the preliminary UXO bomb risk map obtained from Zetica UXO, in general accordance with CIRIA Report C681 (2009), Hydrock has also undertaken a non-specialist UXO screening exercise for the purposes of ground investigation, which is presented in Table 4.2.

Table 4.2: Non-specialist UXO screening (for the purpose of ground investigation)

Data	Comment	Further Assessment Required
Site History	From the Phase I report there is no indication of former military use on or within close proximity to the site.	No
Post War Development	Historical post-war OS maps do not show any ruins or obvious signs of potential bomb damage or within close proximity to the site, such as missing buildings, indicating an absence of significant risk.	No
Geology	Shirdley Hill Sand Formation deposits are recorded below the site. There is the potential that UXO, if present, could remain undetected.	Yes
Surface cover during WWII	The site was recorded as partially developed during WWII with the western section of the site covered by buildings and associated hard-standing and the eastern section as soft standing. As a result it is considered likely that UXO would remain undetected.	Yes
Indicator of Aerial Delivered UXO	The UXO bomb risk map obtained from Zetica UXO indicates the site as being located within a low risk area in relation to potential UXO.	No

The non-specialist UXO screening exercise has indicated that overall no further assessment is required with regard to UXO in relation to ground investigation.

4.4 Hydrology and Hydrogeology

A summary of available information pertaining to hydrology, hydrogeology, flood risk potential, water abstractions, discharge consents and pollution incidents to controlled waters is provided below.

Table 4.3: Hydrology and Hydrogeology

Hydrology and Hydrogeology	
Watercourses	<p>From a review of historical maps and existing drainage information, Maghull Brook is culverted and runs below the site entering in the south east corner heading to the middle of the site where it then runs north to the northern boundary.</p> <p>Leeds and Liverpool Canal is located 126m south-west of the site.</p> <p>Maghull Brook (stream) is located to the north-west of the site approx. 172m, which is in part exposed at the surface and culverted.</p>
OS Water Network Lines	<p>Maghull Brook (stream) is designated as an OS water network line (inland river).</p> <p>Leeds and Liverpool canal is designated as an OS water network line (canal)</p>
Flood Risk (Rivers or Sea)	The site is not located within an area recorded by the EA to be at risk from flooding from rivers or the sea. The site is not located within an area benefiting from flood defences.
BGS Groundwater Flooding Susceptibility	The site is located within an area designated by the BGS with limited potential groundwater flooding at the surface to occur.
Surface Water Flooding Susceptibility	The site is located within an area designated by the Environment Agency to be at a high risk (3.3% AEP) from surface water flooding within the north, central and southern sections of the site.
Groundwater Classification	<p>Superficial Deposits: Secondary A Aquifer.</p> <p>Bedrock Geology: Principal Aquifer.</p>
Source Protection Zones	The site is located within a Zone 3 (Total Catchment) Source Protection Zone. A Zone 1 (Inner Zone) Source Protection Zone is located around 2km north-east associated with abstraction of drinking water from wells located within the boundary of United Utilities Springfield Water Works. .
Water Abstractions	3 no. recorded within 1km; located 732m north-west associated with extraction of surface water for cooling and manufacturing purposes (from the canal); 808m north-east extraction of surface water associated for agricultural purposes; and 945m north-east associated with extraction of surface water for agricultural purposes. None are considered to be at risk from the site.
Discharge Consents	2 no. historical discharge consents recorded within 250m; located 169m west associated with storm sewage overflow discharged to freshwater/ stream. Not considered to be a risk to the site due to the historical status.
Pollution Incidents	13 no. pollution incidents recorded within 250m; closest incident located 45m west associated with sewage to surface drains, category 2 incident - 1991. All other pollution incidents located from 161m – 238m, south to north-west associated with unknown, crude and storm sewages, natural causes and petrol and oils ranging from category 1 – 3 from 1992 - 1996. Considered to be a possible risk to the site.

A number of pollution incidents have occurred within 250m of the site, with pollutants released such as crude sewage, petrol's and oils, with the severity of the pollution incidents documented as category 1 (major) to category 3 (minor). The majority of these pollution incidents (12 out of 13) have occurred within Maghull Brook to the north-west of the site, therefore with the hydrogeological gradient to the north-west it is unlikely these pollution incidents will have an impact upon the site.

4.5 Landfill Sites and Waste Management

A summary of information regarding landfill sites (historical or current) and waste management facilities is provided below:

Table 4.4: Landfill Sites and Waste Management

Landfill Sites	
Local Authority Recorded Landfills	None recorded within 250m.
Registered and Historical Landfills	None recorded within 250m.
Waste Management	
Waste Transfer Sites	None recorded within 250m.
Licensed Waste Management Facilities	None recorded within 250m.
Waste Treatment or Disposal Site	None recorded within 250m.

4.6 Pollution Controls and Industrial Land Use

A summary of Pollution Control records and potentially polluting activities (fuel stations) is provided below:

Table 4.5: Pollution Controls and Industrial Land Use

Pollution Controls and Industrial Land Use	
Integrated Pollution Controls (IPC)	None recorded within 250m.
Integrated Pollution Prevention and Control (IPPC)	None recorded within 250m.
Pollution Prevention and Controls (PPC)	1 no. recorded within 250m; with the closest permitted LAPPC recorded 55m north-west associated with the former garage and service station, dated January 1999. Not considered to be a risk to the site due to the historical status.
Fuel Station Entries	3 no. recorded within 250m; 55m north-west, 59m north-west and 172m north-east, all are recorded as obsolete.

4.7 Geological

A summary of information relating to potential geological constraints (not including coal mining) is provided below:

Table 4.6: Geological

Geological	
BGS Recorded Mineral Sites	2 no. recorded within 1km; 550m south and 814m south with the commodity listed as sandstone, status recorded as ceased.
CBSCB Compensation District (Cheshire Brine)	Not Applicable.
Man-Made Mining Cavities	None recorded within 1km.
Natural Cavities	None recorded within 1km.
Potential for Collapsible Ground Stability Hazards	Hazard Potential: Very Low (Source: BGS).
Potential for Compressible Ground Stability Hazards	Hazard Potential: No Hazard (Source: BGS).
Potential for Dissolution Stability Hazards	Hazard Potential: No Hazard (Source: BGS).
Potential for Landslide Ground Stability Hazards	Hazard Potential: Very Low (Source: BGS).
Potential for Running Sand Ground Stability Hazards	Hazard Potential: Low (Source: BGS).
Potential for Shrinking or Swelling Clay Ground Stability Hazards	Hazard Potential: No hazard (Source: BGS).
High sulphates present in the soils	Sherwood Sandstone group is not a principal sulphate bearing strata.

4.8 Radon

Inspection of radon maps published by UKHSA and BRE publication 'Radon: Guidance on protective measures for new buildings (including supplementary advice for extensions, conversions and refurbishment projects)' 2023 edition, confirms that the site lies in an area where radon protection measures are not required, and this is confirmed by the site specific assessment included within the Envirocheck report.

5. CONCEPTUAL SITE MODEL

5.1 Introduction

Based on the available desk study information, a conceptual site model (CSM) has been developed. This summarises the understanding of the existing site and its historical development, the site geology, the potential contaminant sources, transport pathways and receptors in order to assess potential pollutant linkages. In assessing the potential contaminants present at the site, reference has also been made to the relevant sections of Environment Agency (EA) Land Contamination Risk Management (LCRM) guidance (2021) and any other relevant supporting documentation.

Based on the available information, a summary of the potential contamination sources, pathways and receptors is provided below. For the purpose of this assessment the site has been considered as a commercial end use.

5.2 Sources of Contamination

Table 5.1: Sources of Contamination and Potential Contaminants of Concern (PCOC)

Potential Source	Potential Contaminative Processes	Potential Contaminants of Concern (PCOC)
On-site: Made Ground and existing structures	<p>Current Maghull Methodist Church</p> <ul style="list-style-type: none"> Made Ground associated with current and previous site usage, including demolition of former buildings. Potential for localised hydrocarbon contamination resulting from usage as a car park in the eastern section of the site and the potential above ground tank storage of Hydrocarbon Fuels along the eastern section of the main church building. Potential for Asbestos Containing Materials (ACMs) to be present within existing structures in site. 	<ul style="list-style-type: none"> Metals Metalloids PAH's (USEPA 16) TPH's (TPH CWG) Asbestos
Off-site:	<ul style="list-style-type: none"> Potential for contamination to have migrated onto site from former garage and service station located 60m north – low risk considered at this stage due to historical status. 	<ul style="list-style-type: none"> Metals Metalloids PAH's
Ground gas migration and/or production	<ul style="list-style-type: none"> Made Ground beneath the site associated with previous site usage. Potential for ground gas migration and/or production associated with possible organic Alluvium superficial deposits in the area of Maghull Brook, presumed culverted below site. 	<ul style="list-style-type: none"> Carbon Dioxide (CO₂) Methane (CH₄) Depleted Oxygen (O₂)

5.3 Potential Pollution Pathways

- Human Health – Direct contact, soil ingestion and dust inhalation.
- Controlled Waters – Infiltration into the Secondary A Aquifer (Superficial deposits).
- Controlled Waters – Infiltration into the Principle Aquifer (Bedrock deposits).
- Controlled Waters - Lateral migration into surface water features (Maghull Brook).
- Human Health - Vertical and lateral migration, ingress and accumulation of ground gases into buildings and service entries (manholes).
- Direct contact of aggressive soils with building foundations and floor slabs.

5.4 Receptors

- Human Health - site end users.
- Human Health - construction workers.
- Controlled Waters – Secondary A Aquifer (Superficial deposits).
- Controlled Waters – Principle Aquifer (Bedrock deposits).
- Controlled Waters - Lateral migration into surface water features.
- Controlled Waters – culverted Maghull Brook present below the site.
- Buildings, foundations and floor slabs.

5.5 Pollutant Linkage Assessment

The potential environmental risk has been assessed based on the ‘source-pathway-receptor’ pollutant linkages identified in the Conceptual Site Model, which requires that for a liability to arise, each stage of the pollutant linkage must be present. A qualitative risk assessment to evaluate the potential risk in descriptive terms is provided below and is undertaken in accordance with CIRIA C552 Report ‘Contaminated Land Risk Assessment: A guide to Good Practice’.

This method makes an assessment of the magnitude of the probability or likelihood of the risk occurring and the magnitude of the potential consequence or severity of the risk occurring. Details of the probability of risk occurring is classified in accordance with the table below:

Table 5.2: Probability of Risk

Classification	Definition
High Likelihood	Pollution linkage and event appears very likely in the short term and near certain to occur in the long term, or there is evidence of harm or pollution to the receptor.
Likely	Pollutant linkage present and it is probable the risk will occur in the long term.
Low Likelihood	Pollution linkage present and there is a possible change of the risk occurring; however, no certainty it will even in the longer term.
Unlikely	Pollution linkage present but it is improbable that an event would occur even in the long term.

Details of the classification of consequence are provided below:

Table 5.3: Classification of Consequence

Classification	Definition
Severe	Acute risk to human health likely to result in ‘significant harm.’ Short term risk of pollution of the water environment. Catastrophic damage to properties and/ or buildings. Short term risk to a particular ecosystem.
Medium	Chronic damage to Human health likely to result in ‘significant harm.’ Pollution of sensitive water resources. A significant change in a particular ecosystem.
Mild	Pollution of non-sensitive water resources. Significant damage to crops, buildings, structures and services.
Minor	No permanent human health effects. Damage to non-sensitive ecosystems or species. Minor damage to buildings, structures or services.

The overall evaluation of the level of potential risk is obtained from making assessment of the severity and probability. An assessment of the classified risk is detailed in the table below:

Table 5.4: Risk Significance Matrix

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

Having evaluated the information gathered during this study a qualitative risk assessment has been made of the likelihood of any pollutant linkage operating and its potential significance, as summarised in the table on the following page:

Table 5.5: Conceptual Site Model (CSM)

Contamination Source	Pathway	Potential Receptors	Potential Severity	Potential Probability of Occurring	Risk Level	Comments
On-site: Made Ground associated with current and previous site usage.	Direct contact, ingestion, dust and vapour inhalation	Human Health Risk - Construction workers	Medium	Likely / Low Likelihood	Moderate / Low Risk	Contaminants may be present associated with historical and current land use which could represent a potential risk to construction workers. However, the risk could be mitigated by adopting appropriate measures, i.e. PPE, exposure times etc.
	Direct contact, ingestion, dust and vapour inhalation	Human Health Risk – End users	Medium	Likely / Low Likelihood	Moderate / Low Risk	Contaminants may be present associated with historical and current land use, which could represent a potential risk.
	Direct contact with aggressive soils	Property and infrastructure	Mild	Low	Low Risk	Contaminants may be present on site associated with historical and current land use.
	Lateral and vertical migration	Controlled waters	Mild	Low Likelihood	Low Risk	Only considered to be a risk if significant contamination is identified within the soils below the site.
On-site: Asbestos within existing structures	Ingestion, direct contact, inhalation of dust and outdoor air	Human Health Risk – End users	Severe	Likely	High Risk.	Asbestos may be present in the existing buildings constructed before 1999. Provided all removal work of asbestos is undertaken in accordance with the control of Asbestos Regulations (CAR 2012) the risk can be downgraded from high to low. To be confirmed by pre-demolition/ refurbishment asbestos survey undertaken by specialist contractor.
Contaminants associated with off-site sources	Lateral migration	Human Health Risk - Site end users	Mild	Low Likelihood	Low Risk	Limited potential for contamination to have migrated onto site from adjacent garage and filling station.
Ground gases	Vertical and lateral migration of ground gases	Site end users, construction workers and property	Mild	Low Likelihood	Low Risk	Low risk considered at this stage. Gas monitoring is recommended to assess the level of risk in this regard.

6. GROUND GAS RISK ASSESSMENT

6.1 Introduction

Based on the above information gained through the Envirocheck Report and other sources referenced in the previous sections, the following summarises the preliminary gas risk for the site. In accordance with current guidance (CIRIA C665 and BS8576:2013), the gas generation potential for each source has been individually assessed, with references to potential gassing risk made according to the following definitions: Negligible, Very Low, Low, Moderate, High and Very High.

Table 6.1: Ground Gas Risk

Potential Gas Source	Hazard	Generation Potential	Justification
Made Ground (CH ₄ , CO ₂)	Humans: health risk. Buildings: explosion	Low	Made Ground is anticipated on the site associated with demolition of former buildings.
Alluvium (CH ₄ , CO ₂)	Humans: health risk Buildings: explosion	Very Low	There is a potential for Alluvium to extent below the site area associated with the location of Maghull Brook, which may represent a potential source of ground gas if significant organic debris is present. Very low risk considered at this stage.
Nearby Landfill (CH ₄ , CO ₂)	Humans: health risk. Buildings: explosion	Very Low	There are no landfill sites recorded within a plausible migration distance to the site.
Coal mining	Humans: health risk. Buildings: explosion	N/A	The site is not located within a coal mining area.
Radon	Humans: health risk	N/A	No precautions required.
Overall Risk	Very Low to Low		

6.2 Preliminary Ground Gas Risk Assessment Summary

The potential risk of ground gas is considered to be very low to low. However, it is recommended that gas monitoring and assessment be completed as part of any future ground investigation works to confirm the level of potential risk.

7. GEOTECHNICAL CONSIDERATIONS

7.1 General

The following geotechnical considerations are given as preliminary guidelines only based on the available data on the ground conditions. Consequently, the following should not be taken as design criteria without further geotechnical data obtained from a suitably designed ground investigation.

7.2 Coal Mining Assessment

The site is not located within a coal mining area with no risk in this regard.

7.3 Unexploded Ordnance (UXO)

The regional unexploded bomb risk map obtained from Zetica UXO indicates the site as being located within a Low Risk area in relation to possible unexploded ordnance (UXO) resulting from WWII bombing (i.e. areas as indicated as having 50 bombs per 1000acre or less), indicating that works can progress without the requirement for special precautions in this regard.

The non-specialist UXO screening exercise also indicates that no further assessment is required with regard to UXO in relation to any future ground investigation works.

7.4 Geotechnical Risks

- Plausible geotechnical risks identified at the site are: Uncontrolled Made Ground (variable strength and compressibility).
- Soft/ loose compressible Made Ground, possible alluvium within the north-east (low strength and high settlement potential).
- Variable lateral and vertical changes in ground conditions.
- Attack of buried concrete by aggressive ground conditions.
- Adverse chemical ground conditions.
- Obstructions from concrete hardstanding and below ground structures (potential culverted Maghull Brook and building foundations).
- Shallow perched groundwater on layers of cohesive Made Ground.
- Seasonal variations in the depths to groundwater.
- Running sands within the Shirdley Hill Sand Formation, leading to difficulty with excavation and collapse of side walls.
- Problematic soils (Made Ground and potential alluvial silts).

7.5 Foundations and Floor Slab

Based on BGS data, the site is indicated to be underlain by Shirdley Hill Sand Formation superficial deposits, with the BGS borehole archive logs indicating the presence of shallow dark red to brown and grey sandstone (probable Sherwood Sandstone Group) deposits at relatively shallow depth below the site.

As a result it is considered that conventional shallow foundations (strip or pad) could represent a viable solution for the proposed development, subject to the findings of ground investigation works to determine

the nature of shallow ground conditions and confirmation of location of the culverted Maghull Brook which could impact on the design of the development (including associated easement). The Ground investigation should also confirm whether potentially variable Alluvium deposits extend below the northern and eastern sections of the site.

If conventional shallow foundations are determined as not represent a potentially viable option, then consideration may need to be given to the use of alternative solutions such as ground improvement or piles.

Following a review of available information a ground bearing floor slab may represent a potentially viable solution for the proposed development. However, should significant thicknesses of Made Ground be identified and/or variable Alluvium deposits are confirmed as extending below the north and eastern site areas, a suspended floor slab may be required.

The recommended scope of proposed ground investigation works is included in Section 8.

7.6 Gas Protection Measures

In view of the preliminary assessment, and in consideration as to the nature of the proposed development, the potential risk from ground gas migration and/or production is considered to be very low to low. However, it is recommended that further assessment be completed as part of any future ground investigation works to confirm the level of potential risk.

Radon protection measures are not required for this site.

8. RECOMMENDATIONS FOR FURTHER WORKS

8.1 Recommended Scope of Works

From provided information it is understood that development proposals includes the demolition of the existing buildings on site and construction of a new Co-op retail store with associated warehouse and car park. Based on the findings of the Phase 1 assessment it is recommended that ground investigation works are undertaken to target the location of the proposed store and car park, along with the area of potentially variable Alluvium in the north-eastern corner of the site, to aid in confirming/ not confirming the presence of presumed culverted Maghull Brook located in site and the ground conditions and to also address identified potential ground related issues.

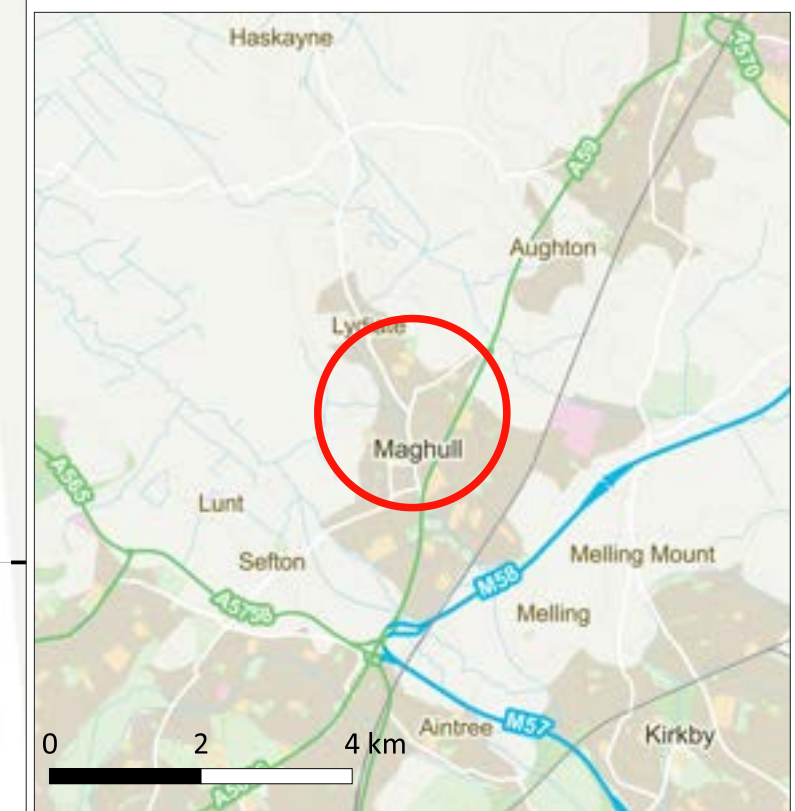
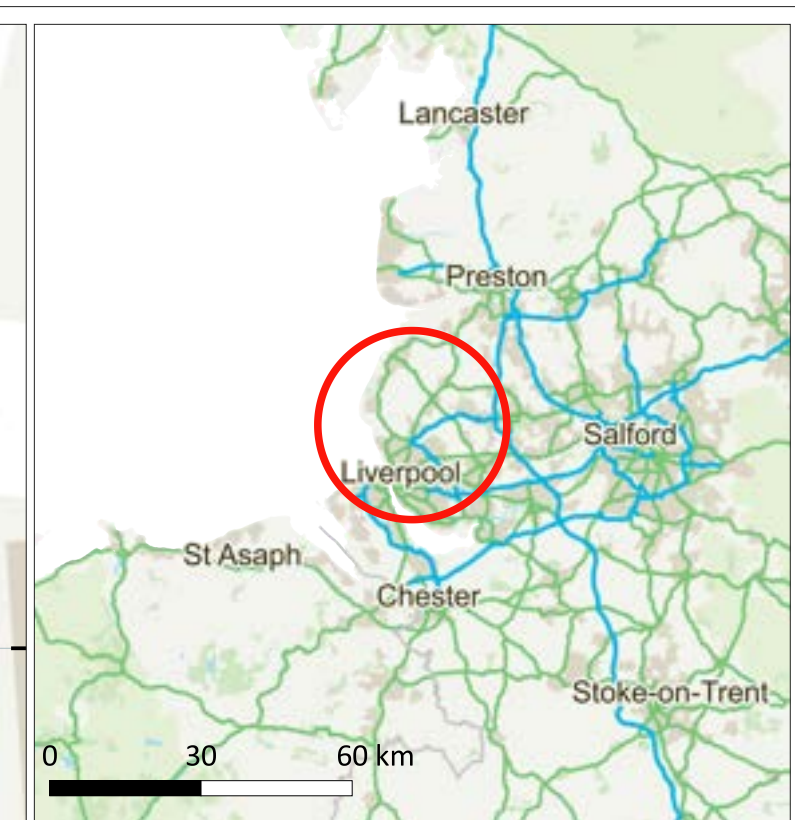
A summary of the recommended proposed scope of works, which should not be taken as an exhaustive list, is provided below:

- Exploratory holes to allow the recovery of samples for laboratory testing and establish the shallow geological profile
- Works to locate the culverted Maghull Brook;
- Completion of CCTV and Drainage Survey to confirm the route and depth culverted Maghull Brook.
- Completion of targeted investigation works within the north and east of the site to aid in determining whether potentially variable Alluvium deposits extend below this area.
- Installation of gas and groundwater monitoring wells, with appropriate ground gas monitoring.
- Chemical testing and Geotechnical Testing
- Production of interpretive Phase 2 Geo-environmental Assessment report including any recommendations for mitigation measures.

Drawings

Appendix A

Existing and Proposed Site Plans



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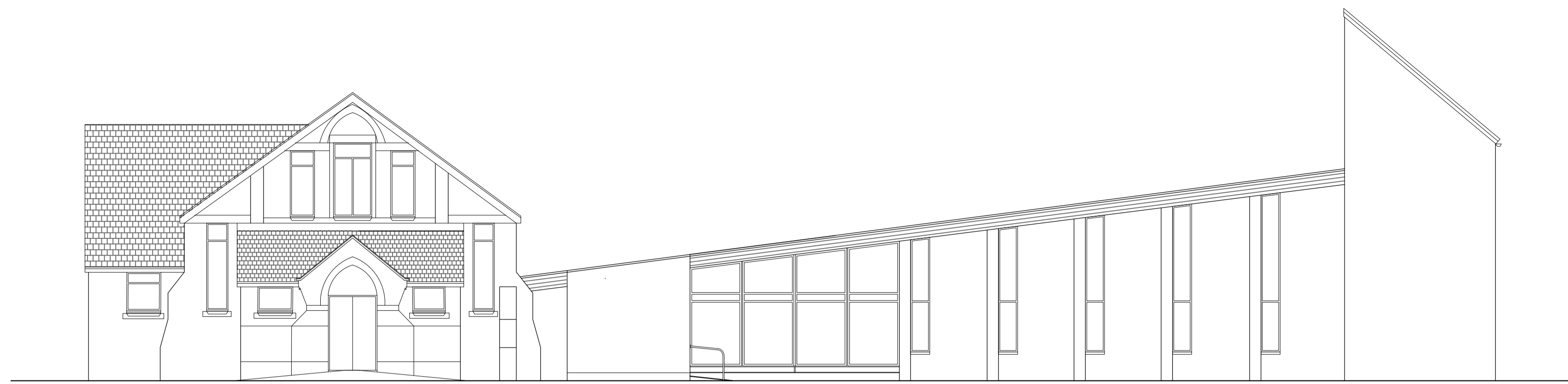
KEY PLAN	
	Site Boundary

NOTES
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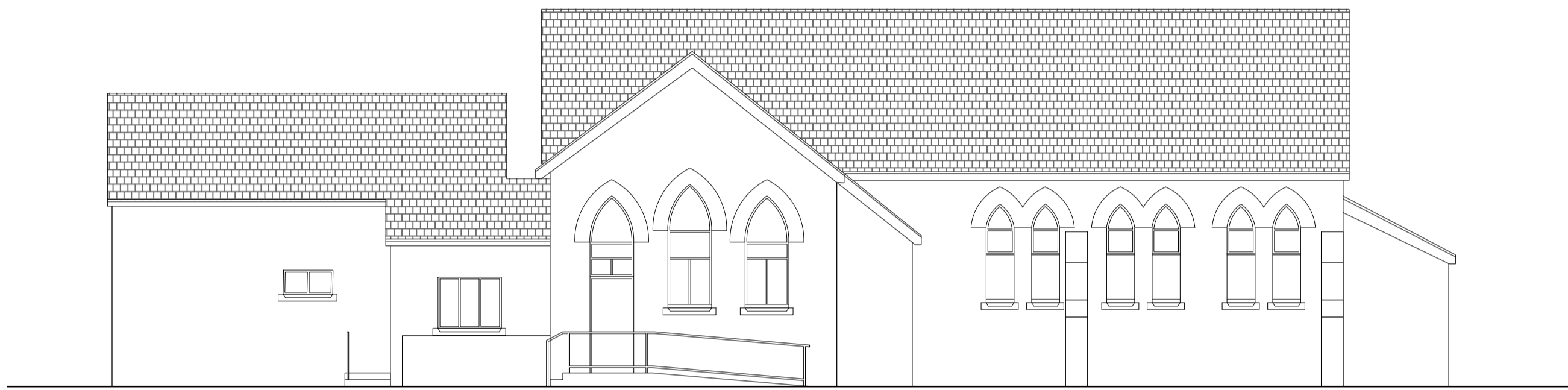
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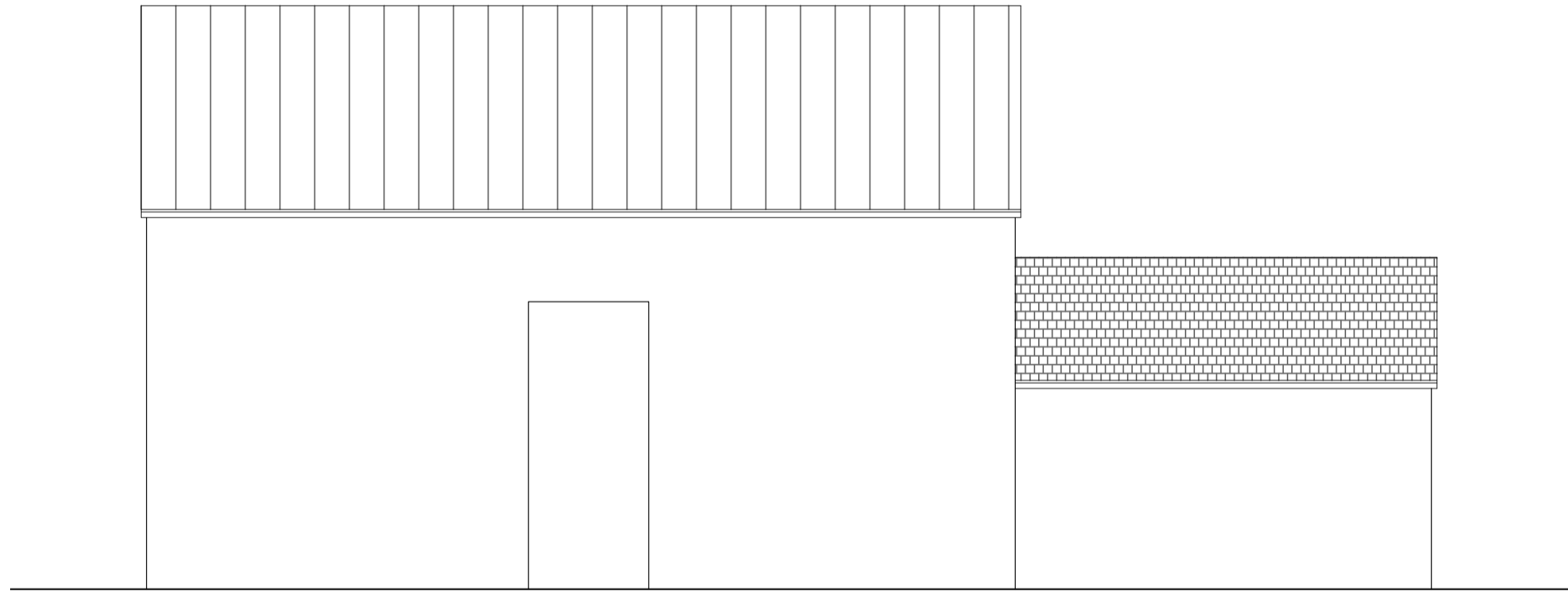
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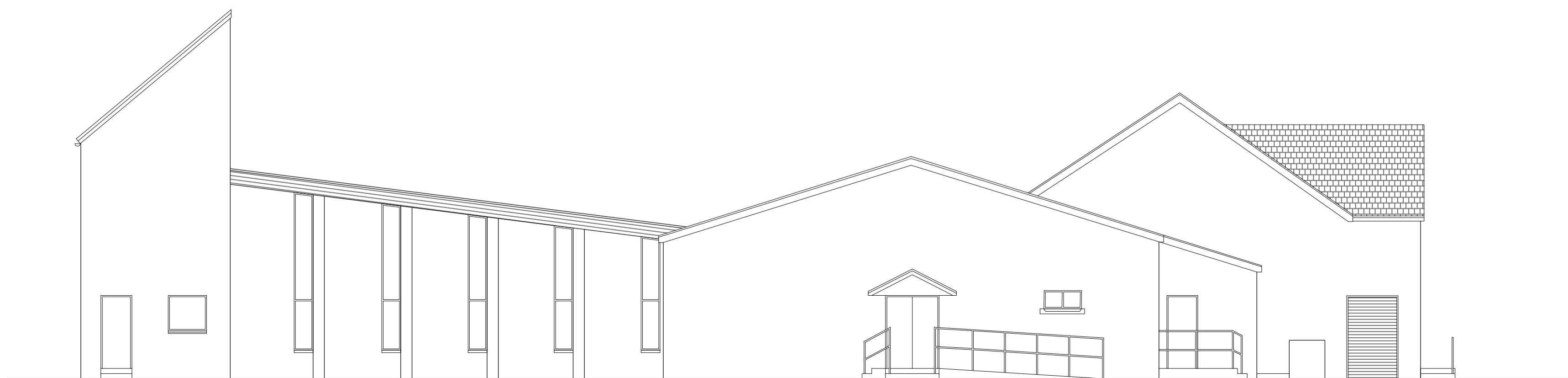
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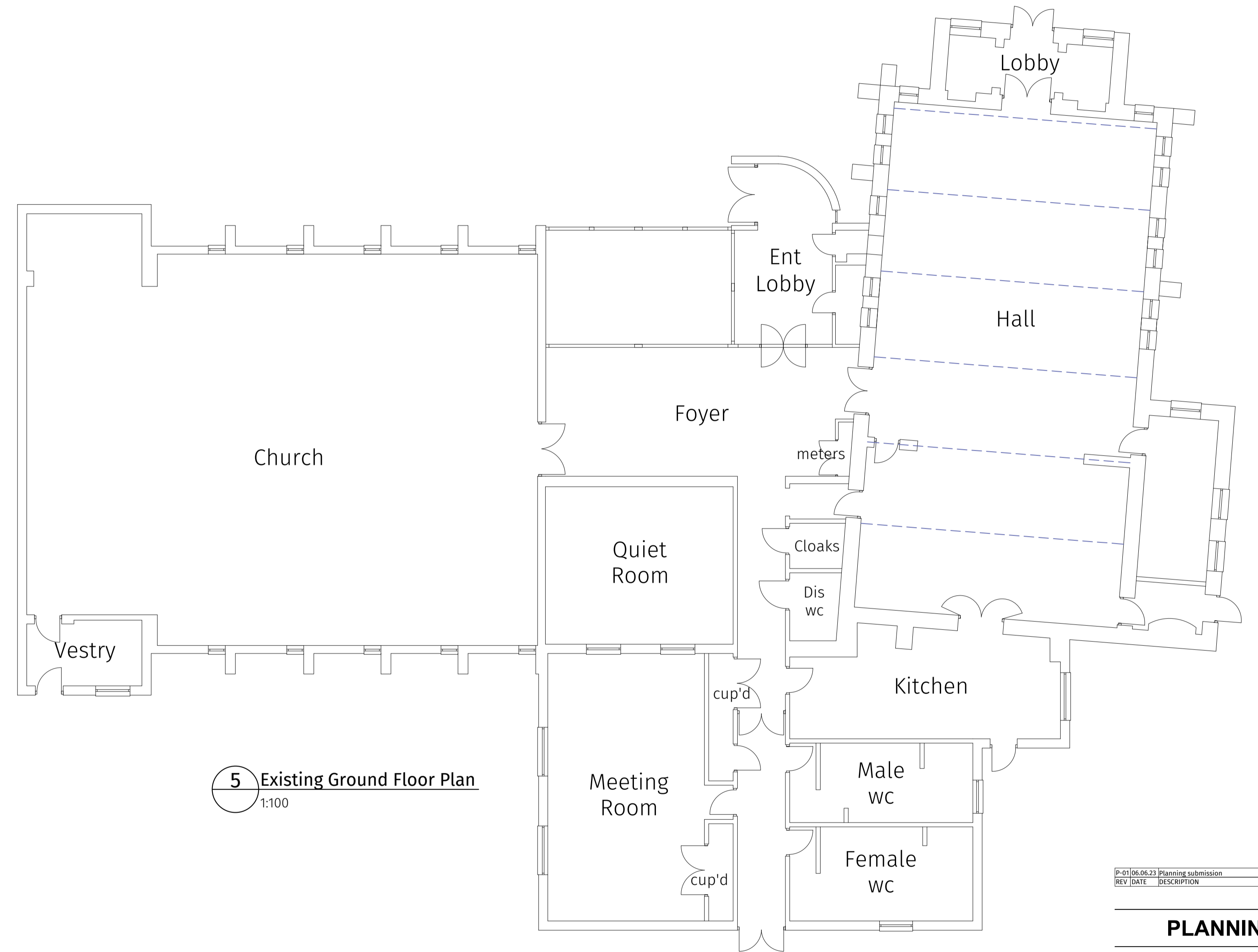
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3 Existing Side Elevation
1:100



4 Existing Rear Elevation
1:100



5 Existing Ground Floor Plan
1:100

REV	DATE	DESCRIPTION	BY	CHK
0				

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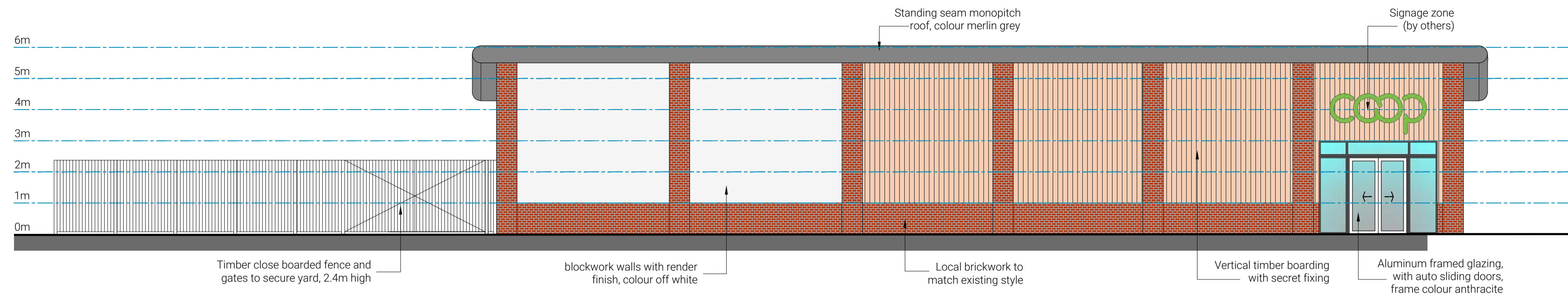
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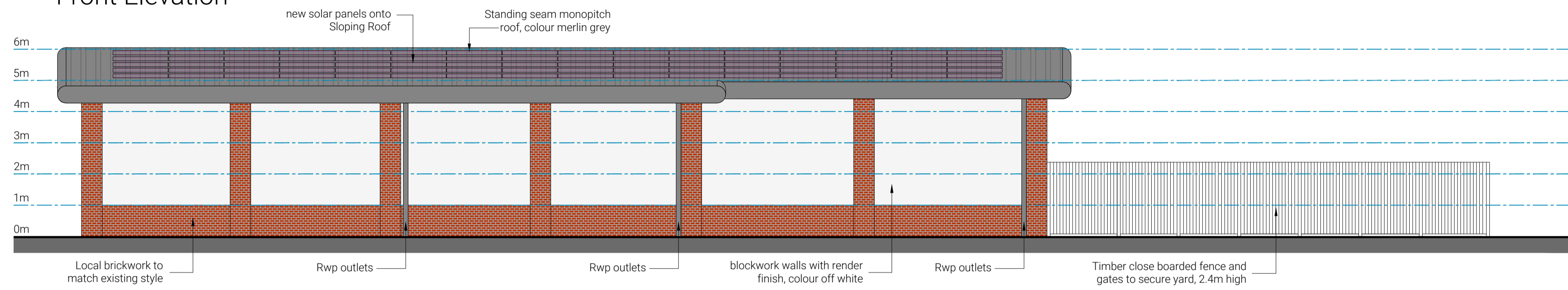
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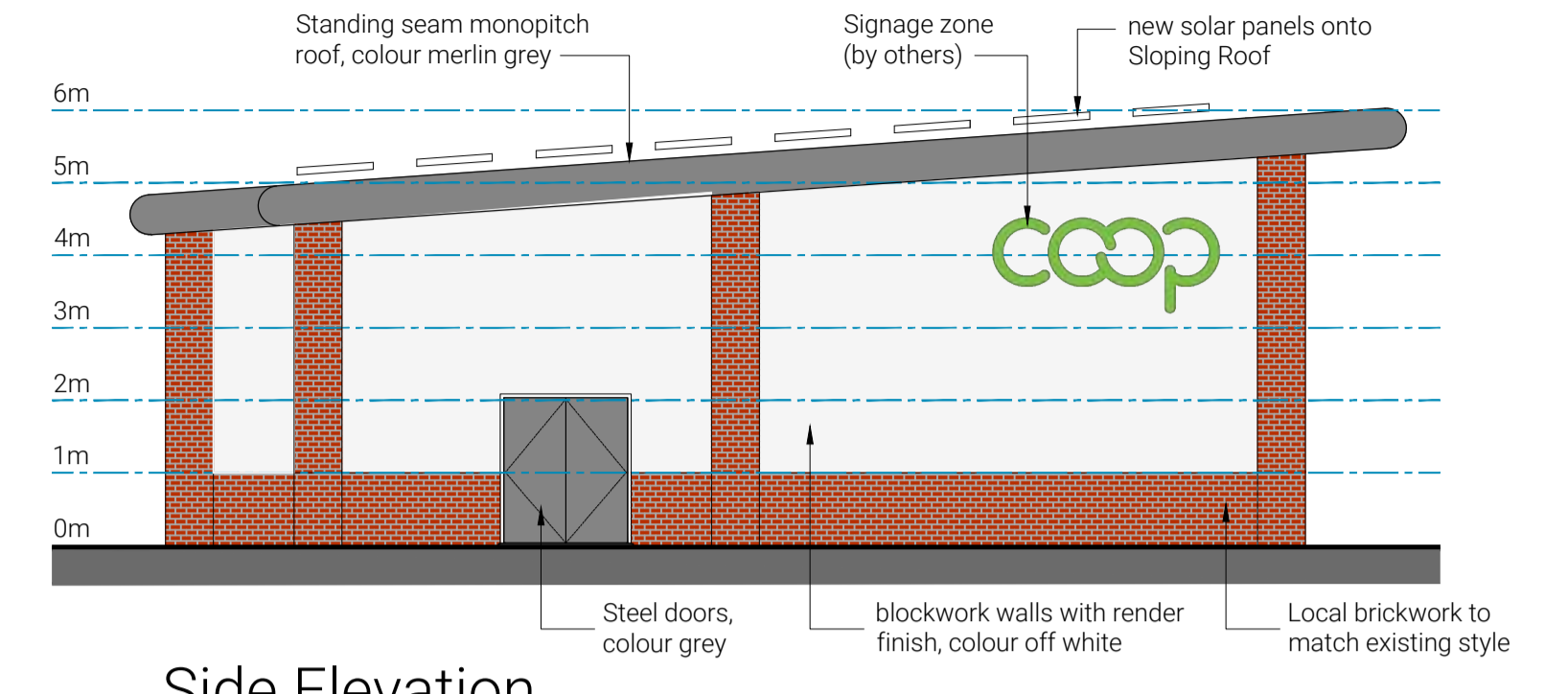
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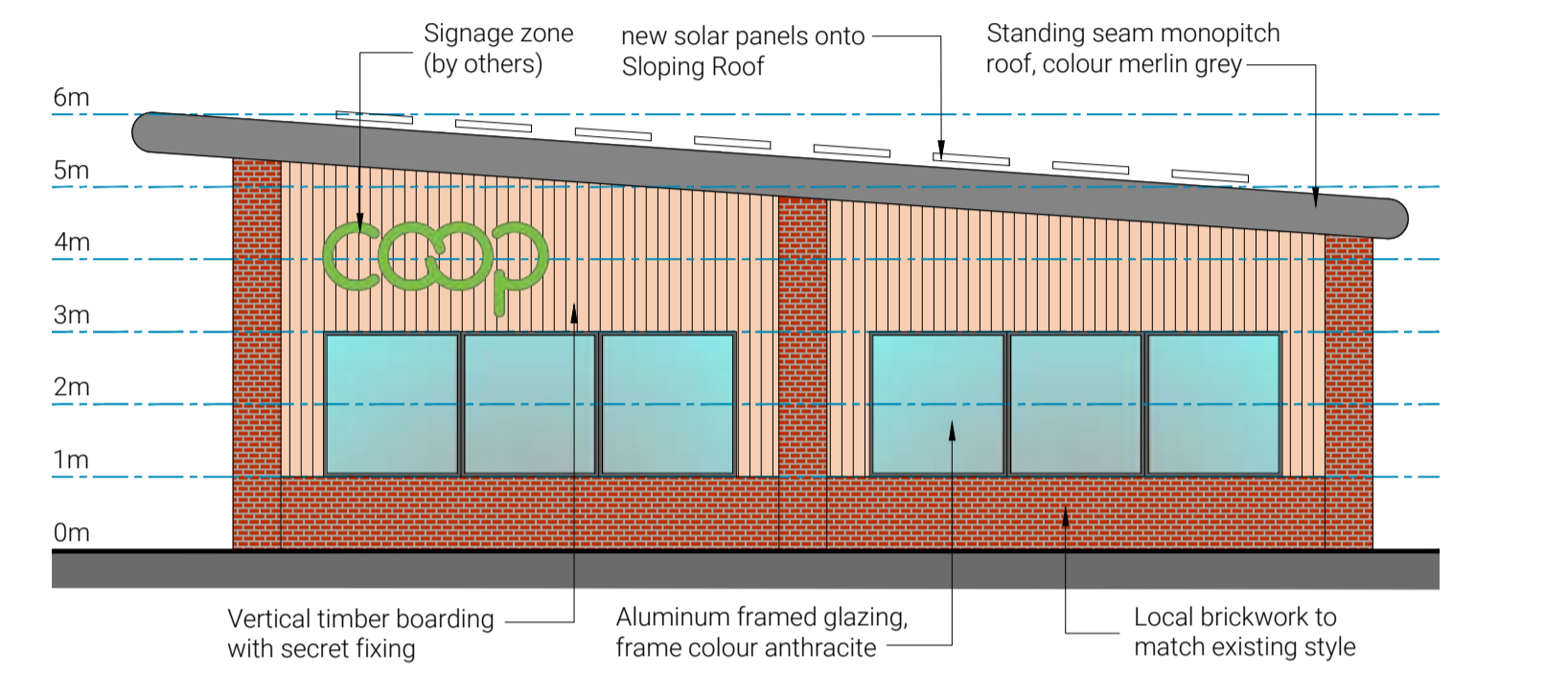
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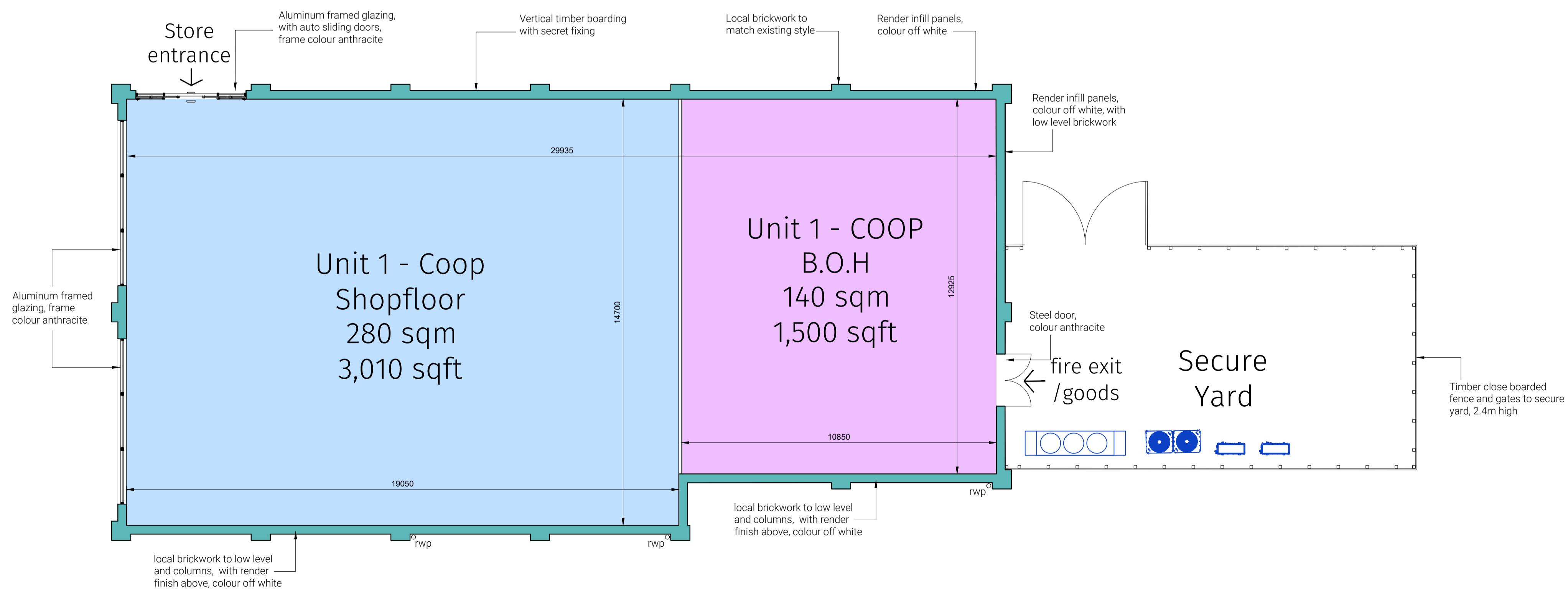
Rear Elevation



Side Elevation

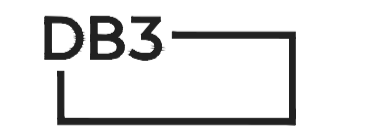


Side Elevation



P-0106.06.23 Planning submission	JS	TC
REV DATE	DESCRIPTION	DR

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Feb 2023	1:500	sn	RS	5-

SHEET NO.	REVISION
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COOP WAREHOUSE	1,500 sqft

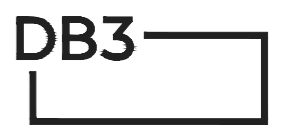
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1 PROPOSED ROOF PLAN
1:100

P-01	06.06.23	Planning Issue	rs	TC
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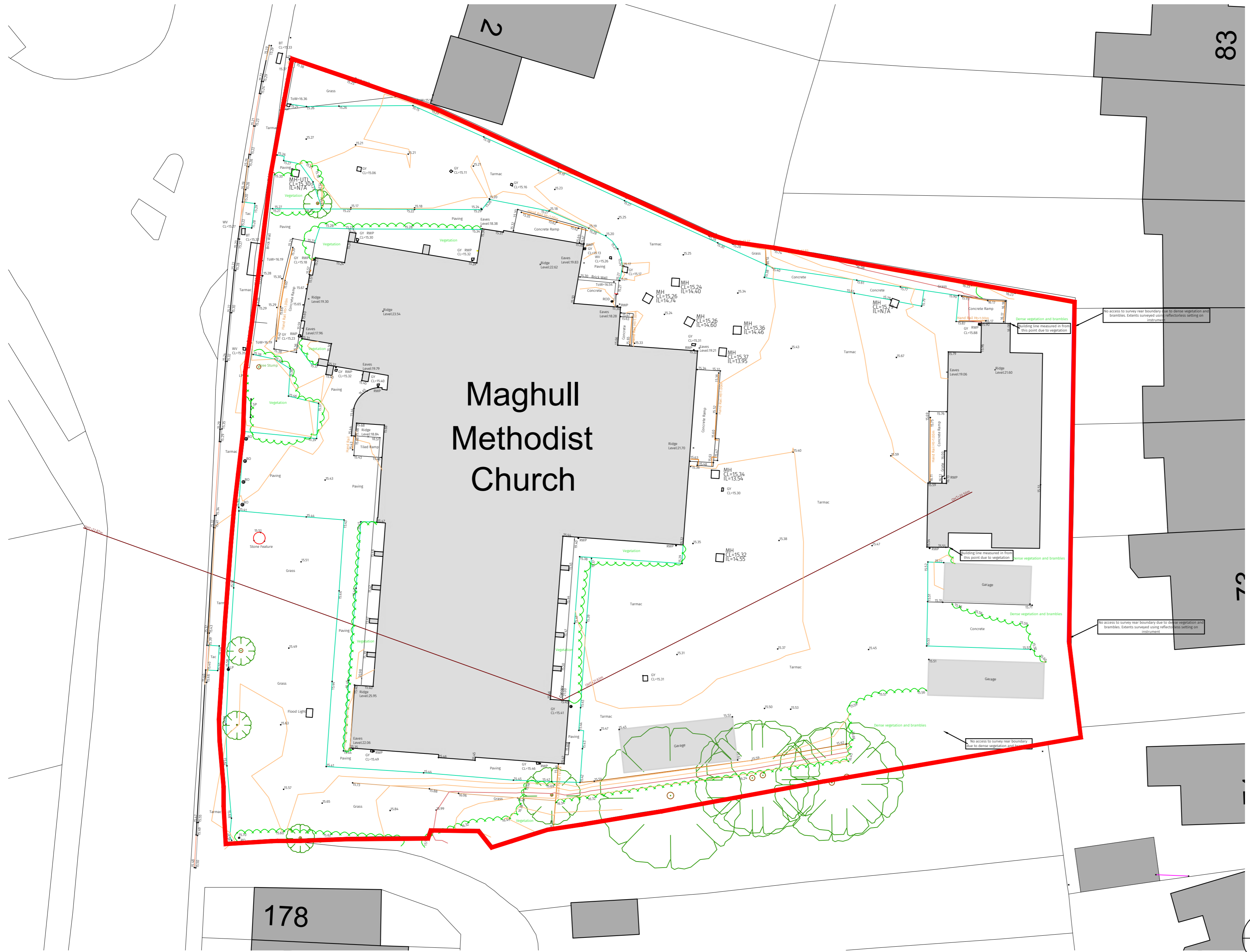
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MAGHULL

TITLE
Proposed Roof Plan

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Maghull Methodist Church

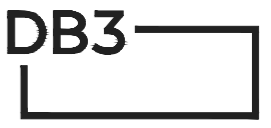
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EXISTING SITE AREA	0.695 acres

Boundary:

Existing Demise Line

REV	DATE	DESCRIPTION	RS	TC
P-01	06.06.23	Planning submission	rs	tc
			DR	CH

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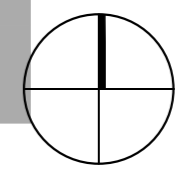
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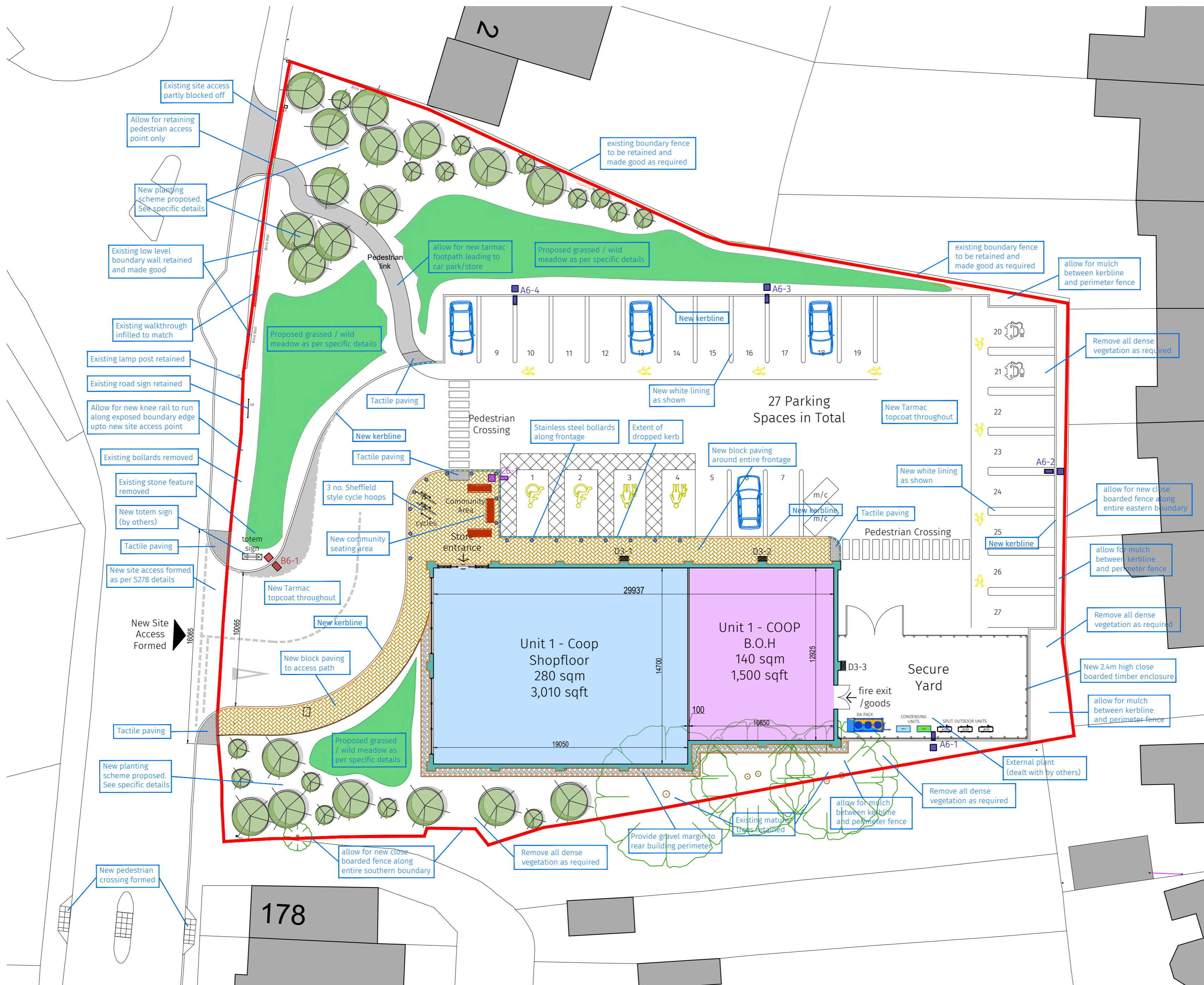
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0	SCALE 1:1250	125m





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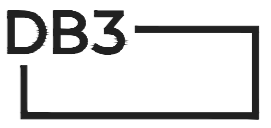
TO BE READ IN CONJUNCTION WITH TRAFFIC CONSULTANT & LIGHTING CONSULTANT DETAILS

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UNIT 1 - COOP SALESFLOOR	3,010 sqft
UNIT 1 - COOP WAREHOUSE	1,500 sqft
CAR PARKING SPACES	27

Boundary:
 Existing Demise Line

REV	DATE	DESCRIPTION	DR	CH
P03	06.06.23	Planning submission	rs	TC
P02	03.05.23	Latest plant layout added	sn	RS
P01	17.04.23	Updated to latest site access layout	sn	RS
REV	DATE	DESCRIPTION	DR	CH

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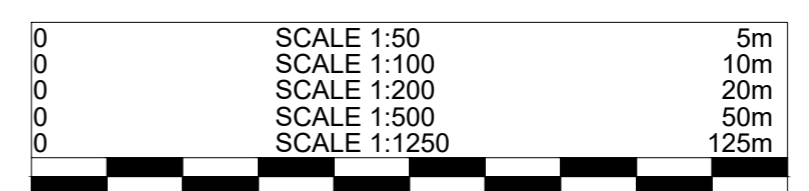
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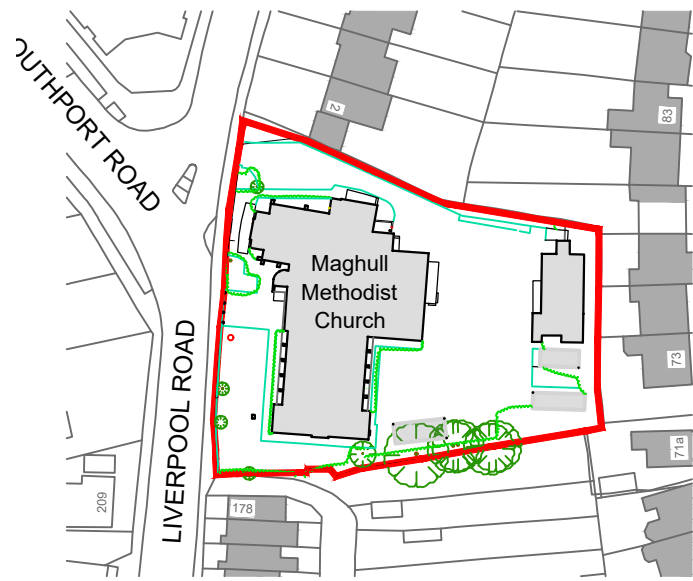
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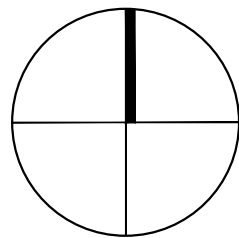
PROJECT NO. 16091 - DB3 - B01 - 00 - DR - A - 90-002
 PROJECT NO. | ORIGINATOR | ZONE | LEVEL | TYPE | ROLE | NUMBER
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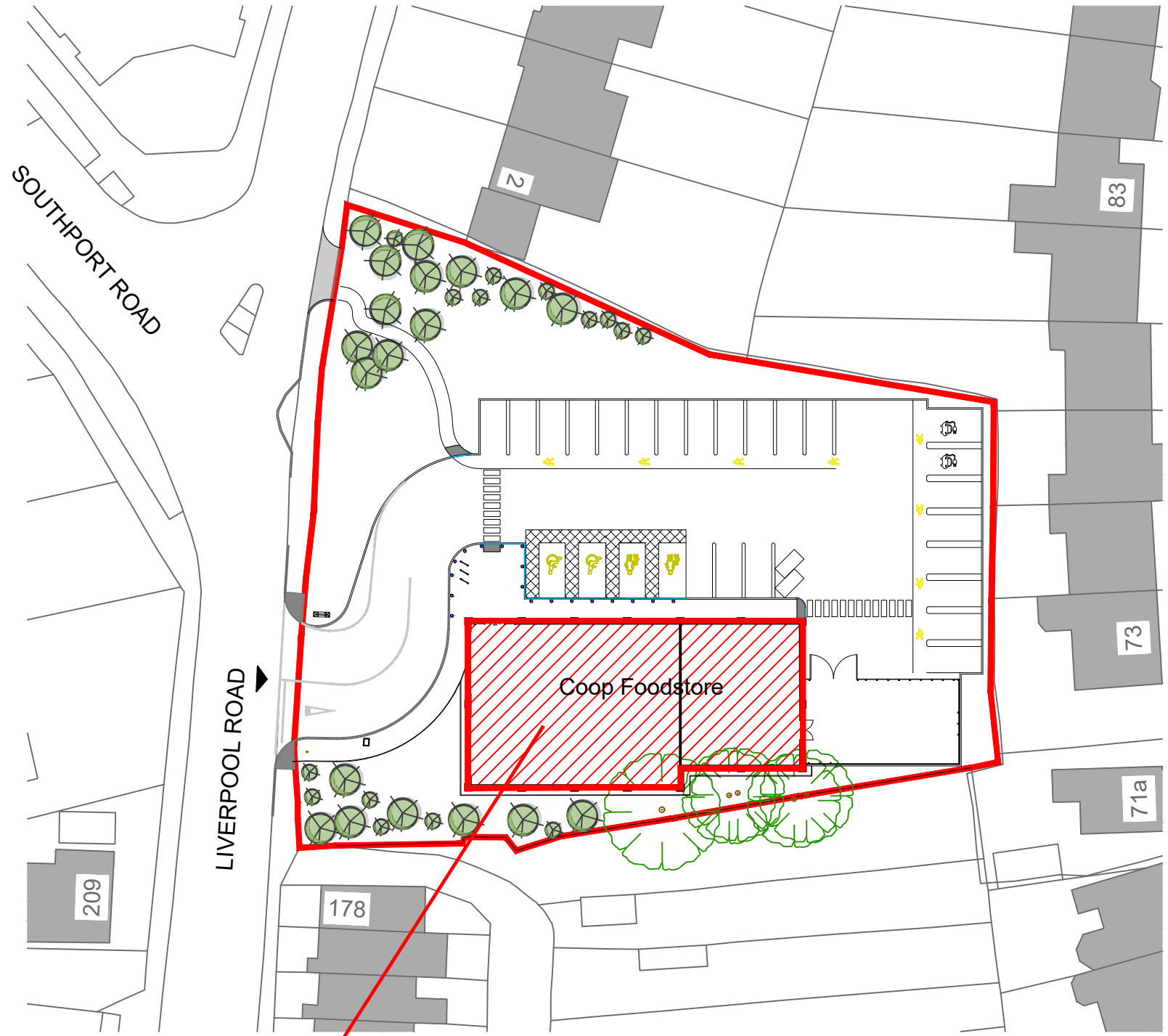
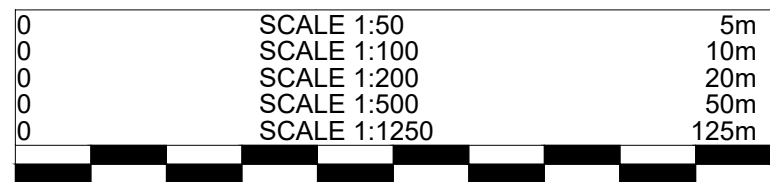


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2 LOCATION PLAN
1:1250

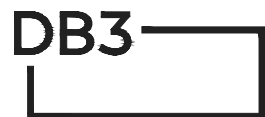


ASSUMED
BOUNDARY LINE



1 BLOCK PLAN
1:500

Area of
Development



PLANNING

LEEDS

4th Floor, 10 South Parade, Leeds, LS1 5QS.
T: 0113 244 6931 www.darntonb3.com

CLIENT
Central England Cooperative

PROJECT
Methodist Church, 180 Liverpool Road, Maghull. L31 2HP

TITLE
Block and Location Plan

CREATION DATE	SCALE @ A3	DRN	CHK	STATUS
February 2023	1:500 / 1250	sn	RS	
SHEET NO.	REVISION			
16091-DB3-B01-00-DR-A-90-003	P02			
PROJECT NO ORIGINATOR ZONE LEVEL TYPE ROLE NUMBER				

REV	DATE	DESCRIPTION	DR	CH
P02	06.06.23	Planning Submission	rs	TC
P01	18.04.23	Updated to latest site layout	sn	RS
P00	09.09.22	Planning Issue	rs	TC

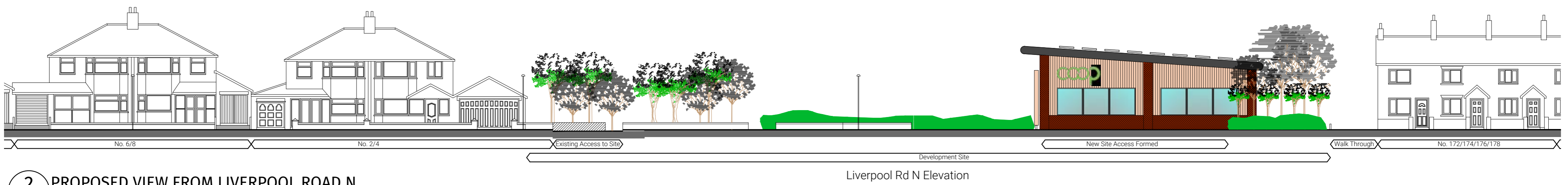
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DO NOT SCALE FROM THIS DRAWING. USE DISPLAYED DIMENSIONS.



1 EXISTING VIEW FROM LIVERPOOL ROAD N
1:200



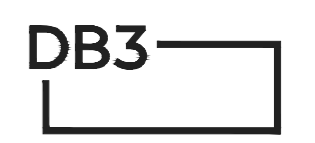
2 PROPOSED VIEW FROM LIVERPOOL ROAD N
1:200



3 SITE PLAN
1:500

P02	06.06.23	Planning Issue	rs	TC
P01	18.04.23	Updated to latest site access layout	sn	RS
REV	DATE	DESCRIPTION	DR	CH

PLANNING



LEEDS

4th Floor, 10 South Parade, Leeds LS1 5QS.
T: 0113 244 6931 www.darntonb3.com

CLIENT
Central England Cooperative

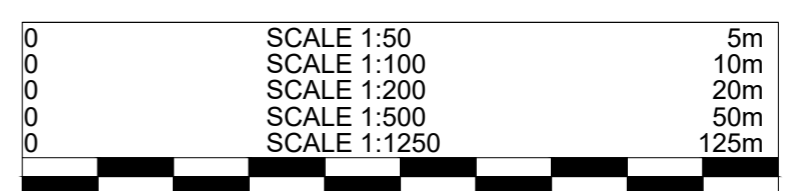
PROJECT
Former Methodist Church
MAGHULL

TITLE
Proposed Street Scene

CREATION DATE	SCALE @ A2	DRN	CHK	RS	STATUS
18.04.23	1:200	sn	rs		S-

SHEET NO.	REVISION
16091 - DB3 - B01 - 00 - DR - A - 90-005	P02

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Appendix B

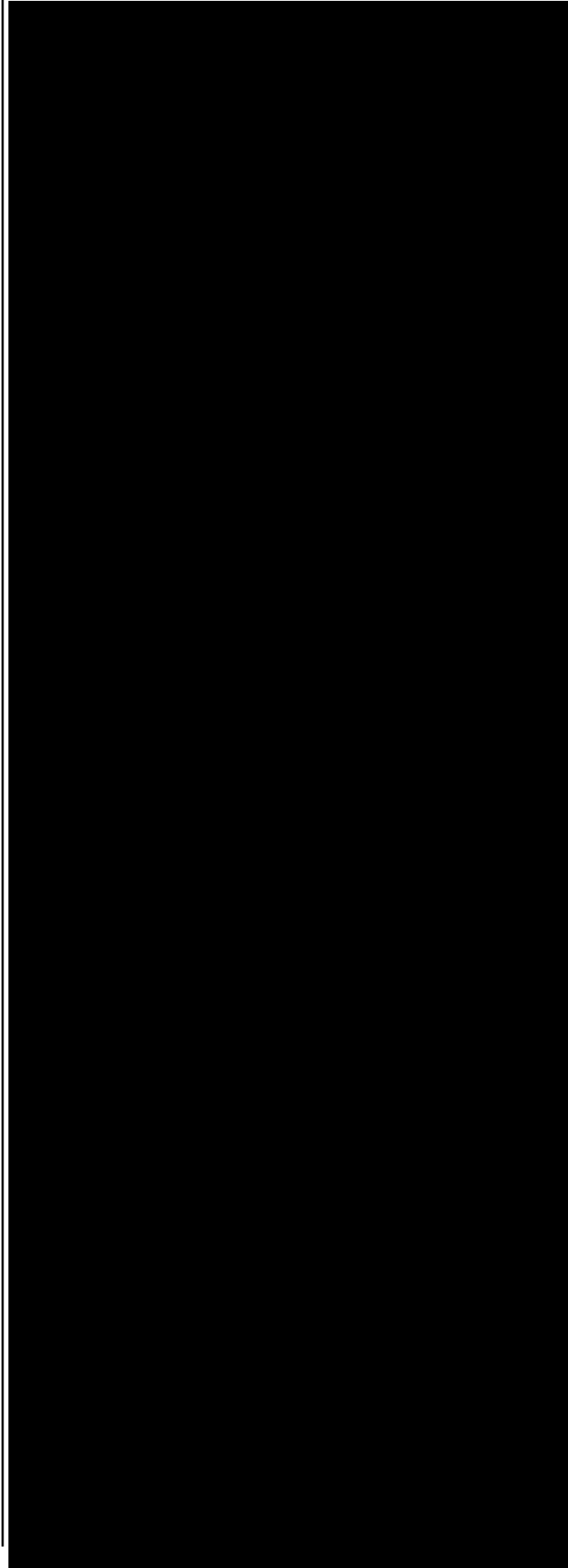
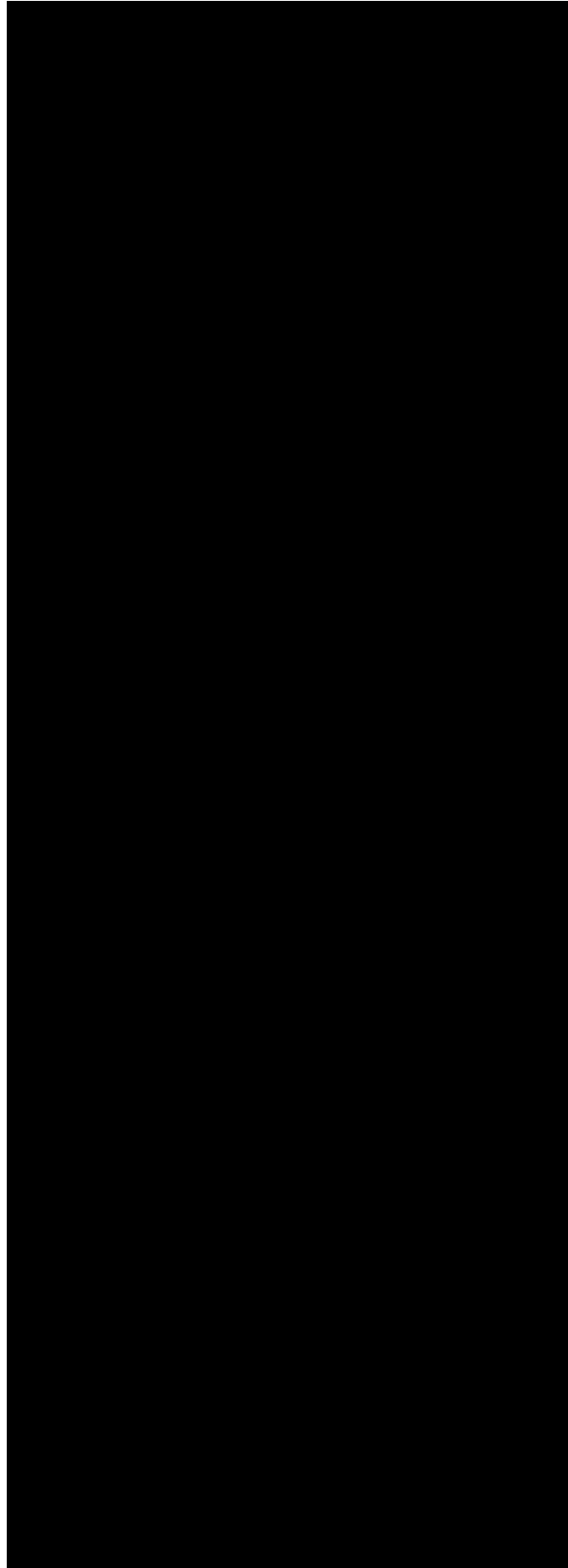
Historical Maps

Historical Mapping Legends

Ordnance Survey County Series 1:10,560

Ordnance Survey Plan 1:10,000

1:10,000 Raster Mapping



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1849 - 1850	2
Lancashire And Furness	1:10,560	1894	3
Lancashire And Furness	1:10,560	1909	4
Lancashire And Furness	1:10,560	1928	5
Lancashire And Furness	1:10,560	1928	6
Lancashire And Furness	1:10,560	1938	7
Ordnance Survey Plan	1:10,000	1955	8
Ordnance Survey Plan	1:10,000	1968	9
Ordnance Survey Plan	1:10,000	1975	10
Ordnance Survey Plan	1:10,000	1986	11
10K Raster Mapping	1:10,000	1999	12
Street View	Variable		13

Historical Map - Slice A



Order Details

Order Number: 312750026_1_1
 Customer Ref: 29122 GNEW
 National Grid Reference: 337370, 403180
 Slice: A
 Site Area (Ha): 0.29
 Search Buffer (m): 1000

Site Details

Maghull Methodist Church, 180, Liverpool Road North,
 LIVERPOOL, L31 2HP



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



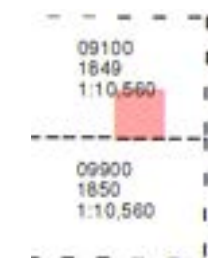
Lancashire And Furness

Published 1849 - 1850

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



Order Details

Order Number: 312750026_1_1
Customer Ref: 29122 GNEW
National Grid Reference: 337370, 403180
Slice: A
Site Area (Ha): 0.29
Search Buffer (m): 1000

Site Details

Maghull Methodist Church, 180, Liverpool Road North,
LIVERPOOL, L31 2HP



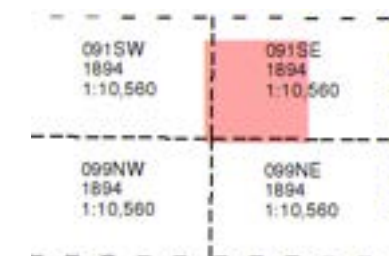
Lancashire And Furness

Published 1894

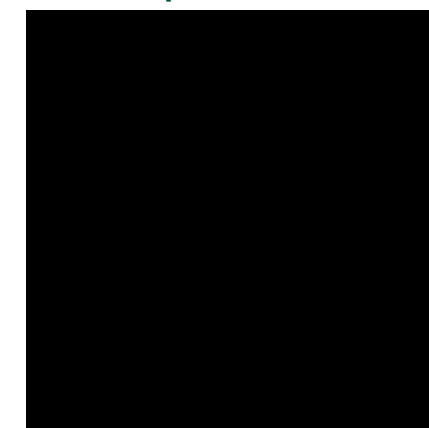
Source map scale - 1:10,560

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



Order Details

Order Number: 312750026_1_1
Customer Ref: 29122 GNEW
National Grid Reference: 337370, 403180
Slice: A
Site Area (Ha): 0.29
Search Buffer (m): 1000

Site Details

Maghull Methodist Church, 180, Liverpool Road North,
LIVERPOOL, L31 2HP



Lancashire And Furness

Published 1909

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)

091SW 1909 1:10,560	091SE 1909 1:10,560
099NW 1909 1:10,560	099NE 1909 1:10,560

Historical Map - Slice A



Order Details

Order Number: 312750026_1_1
Customer Ref: 29122 GNEW
National Grid Reference: 337370, 403180
Slice: A
Site Area (Ha): 0.29
Search Buffer (m): 1000

Site Details

Maghull Methodist Church, 180, Liverpool Road North,
LIVERPOOL, L31 2HP



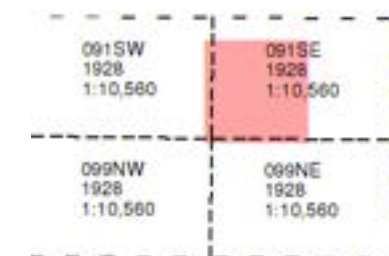
Lancashire And Furness

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



Order Details

Order Number: 312750026_1_1
Customer Ref: 29122 GNEW
National Grid Reference: 337370, 403180
Slice: A
Site Area (Ha): 0.29
Search Buffer (m): 1000

Site Details

Maghull Methodist Church, 180, Liverpool Road North,
LIVERPOOL, L31 2HP



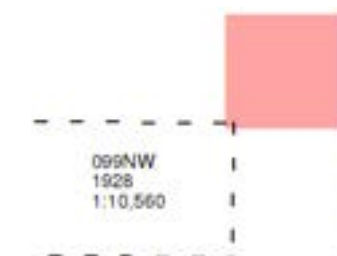
Lancashire And Furness

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



Order Details

Order Number: 312750026_1_1
Customer Ref: 29122 GNEW
National Grid Reference: 337370, 403180
Slice: A
Site Area (Ha): 0.29
Search Buffer (m): 1000

Site Details

Maghull Methodist Church, 180, Liverpool Road North,
LIVERPOOL, L31 2HP



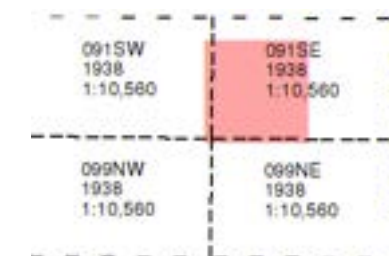
Lancashire And Furness

Published 1938

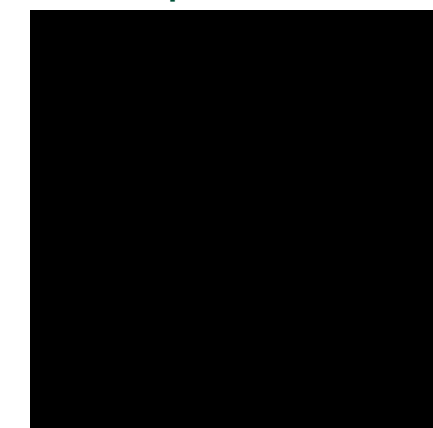
Source map scale - 1:10,560

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



Order Details

Order Number: 312750026_1_1
Customer Ref: 29122 GNEW
National Grid Reference: 337370, 403180
Slice: A
Site Area (Ha): 0.29
Search Buffer (m): 1000

Site Details

Maghull Methodist Church, 180, Liverpool Road North,
LIVERPOOL, L31 2HP



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



Ordnance Survey Plan

Published 1955

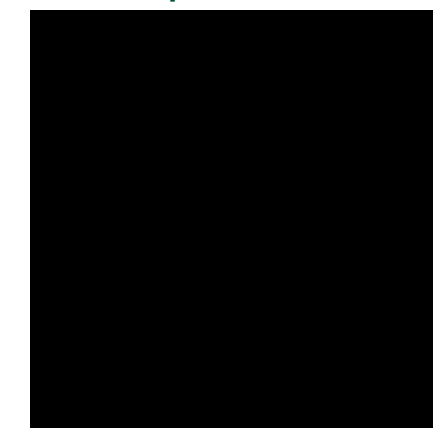
Source map scale - 1:10,000

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: 312750026_1_1
Customer Ref: 29122 GNEW
National Grid Reference: 337370, 403180
Slice: A
Site Area (Ha): 0.29
Search Buffer (m): 1000

Site Details

Maghull Methodist Church, 180, Liverpool Road North,
LIVERPOOL, L31 2HP



Ordnance Survey Plan

Published 1968

Source map scale - 1:10,000

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: 312750026_1_1
Customer Ref: 29122 GNEW
National Grid Reference: 337370, 403180
Slice: A
Site Area (Ha): 0.29
Search Buffer (m): 1000

Site Details

Maghull Methodist Church, 180, Liverpool Road North,
LIVERPOOL, L31 2HP



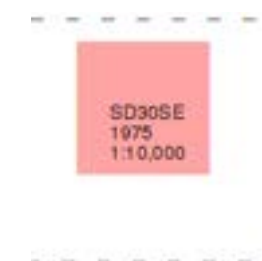
Ordnance Survey Plan

Published 1975

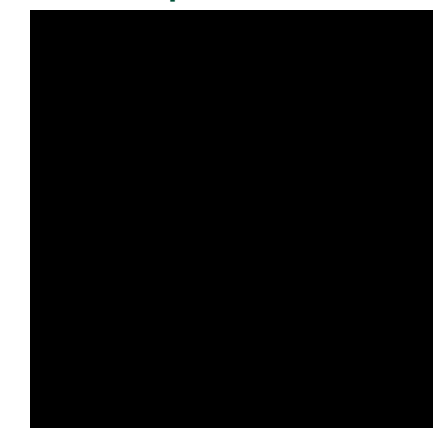
Source map scale - 1:10,000

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: 312750026_1_1
Customer Ref: 29122 GNEW
National Grid Reference: 337370, 403180
Slice: A
Site Area (Ha): 0.29
Search Buffer (m): 1000

Site Details

Maghull Methodist Church, 180, Liverpool Road North,
LIVERPOOL, L31 2HP



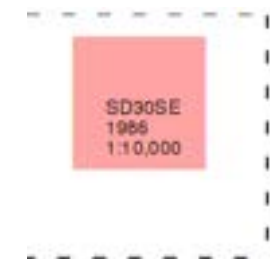
Ordnance Survey Plan

Published 1986

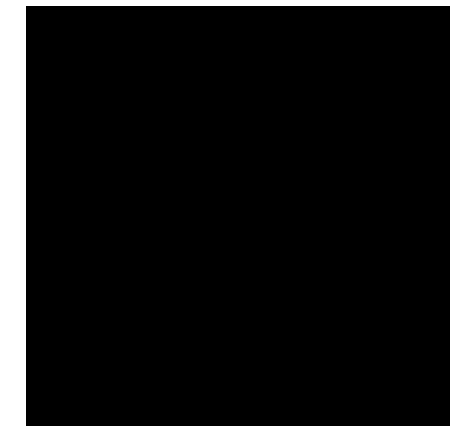
Source map scale - 1:10,000

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: 312750026_1_1
Customer Ref: 29122 GNEW
National Grid Reference: 337370, 403180
Slice: A
Site Area (Ha): 0.29
Search Buffer (m): 1000

Site Details

Maghull Methodist Church, 180, Liverpool Road North,
LIVERPOOL, L31 2HP



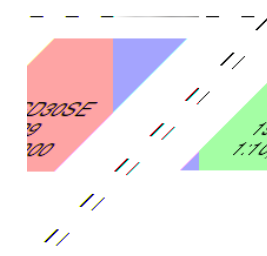
10k Raster Mapping

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: 312750026_1_1
Customer Ref: 29122 GNEW
National Grid Reference: 337370, 403180
Slice: A
Site Area (Ha): 0.29
Search Buffer (m): 1000

Site Details

Maghull Methodist Church, 180, Liverpool Road North,
LIVERPOOL, L31 2HP



Street View

Published 2023

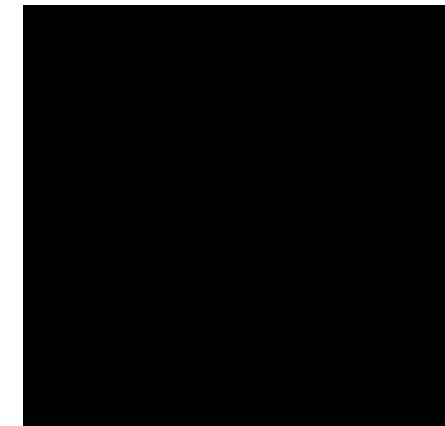
Source map scale - 1:10,000

Street View is a street-level map for the whole of Great Britain produced by the Ordnance Survey. These maps are provided at a nominal scale of 1:10,000

Map Name(s) and Date(s)



Street View Map - Slice A



Order Details

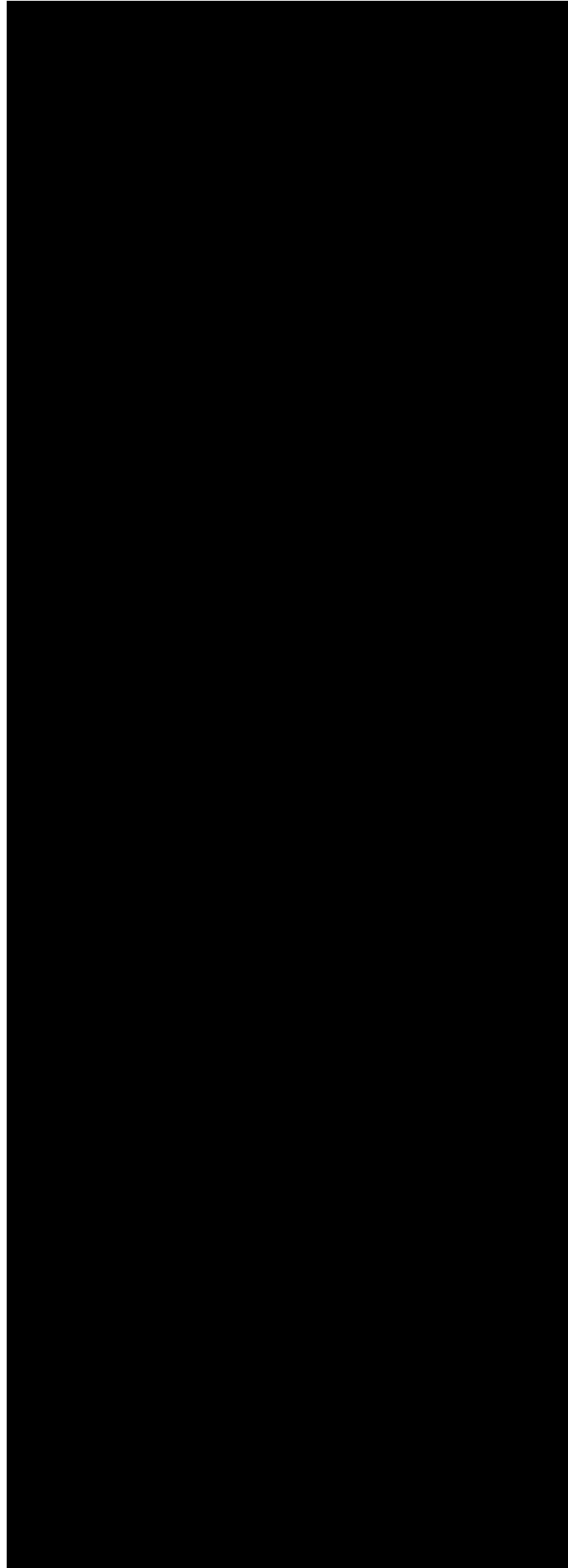
Order Number: 312750026_1_1
Customer Ref: 29122 GNEW
National Grid Reference: 337370, 403180
Slice: A
Site Area (Ha): 0.29
Search Buffer (m): 1000

Site Details

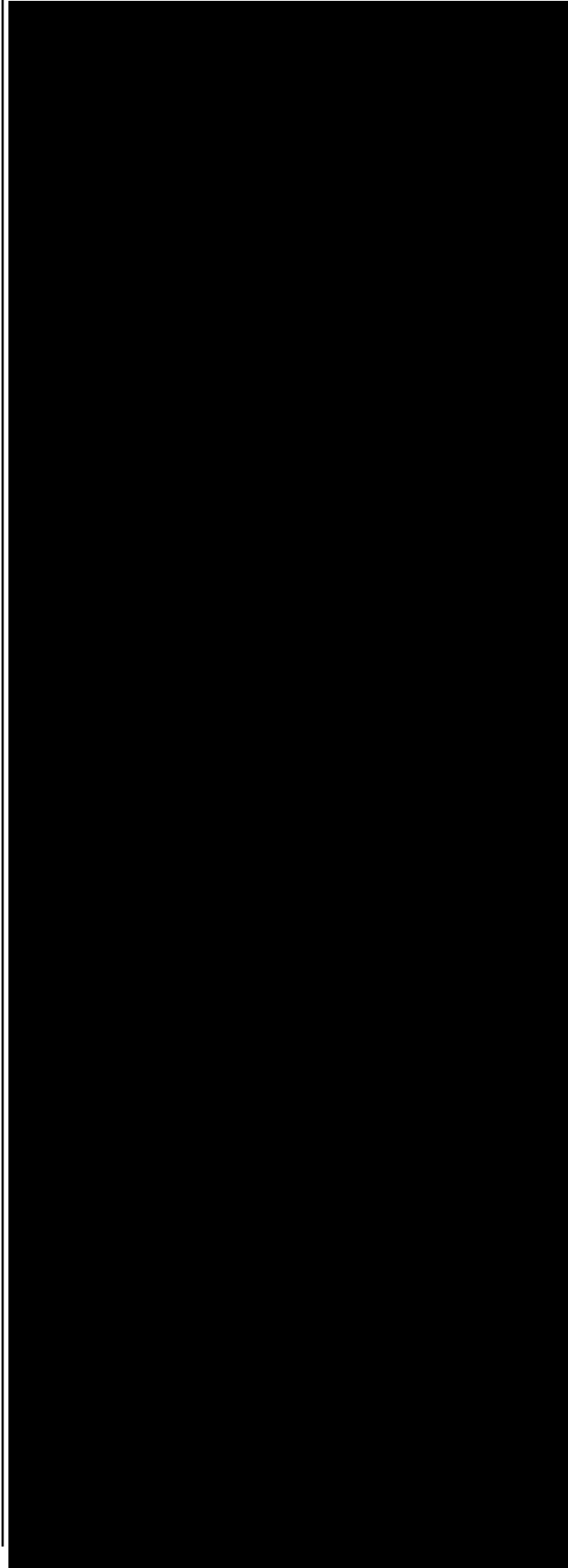
Maghull Methodist Church, 180, Liverpool Road North,
LIVERPOOL, L31 2HP

Historical Mapping Legends

Ordnance Survey County Series and
Ordnance Survey Plan 1:2,500



Ordnance Survey Plan, Additional SIMs and
Supply of Unpublished Survey Information
1:2,500 and 1:1,250



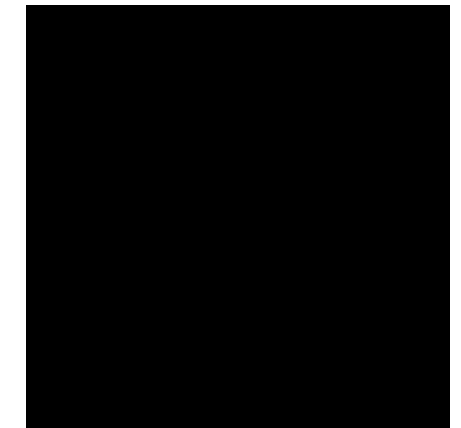
Large-Scale National Grid Data 1:2,500 and
1:1,250



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:2,500	1893	2
Lancashire And Furness	1:2,500	1908	3
Lancashire And Furness	1:2,500	1927	4
Lancashire And Furness	1:2,500	1937	5
Ordnance Survey Plan	1:1,250	1961 - 1962	6
Ordnance Survey Plan	1:2,500	1962 - 1969	7
Ordnance Survey Plan	1:1,250	1966 - 1977	8
Ordnance Survey Plan	1:1,250	1974 - 1990	9
Additional SIMs	1:1,250	1979 - 1983	10
Additional SIMs	1:1,250	1983	11
Additional SIMs	1:1,250	1987	12
Large-Scale National Grid Data	1:1,250	1993	13

Historical Map - Segment A13



Order Details

Order Number: 312750026_1_1
 Customer Ref: 29122 GNEW
 National Grid Reference: 337370, 403180
 Slice: A
 Site Area (Ha): 0.29
 Search Buffer (m): 100

Site Details

Maghull Methodist Church, 180, Liverpool Road North,
 LIVERPOOL, L31 2HP



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



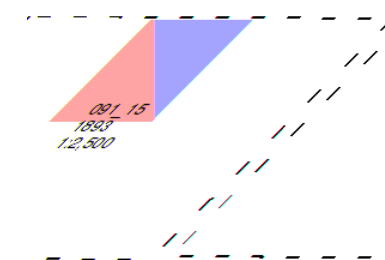
Lancashire And Furness

Published 1893

Source map scale - 1:2,500

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 and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below 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.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 312750026_1_1
Customer Ref: 29122 GNEW
National Grid Reference: 337370, 403180
Slice: A
Site Area (Ha): 0.29
Search Buffer (m): 100

Site Details

Maghull Methodist Church, 180, Liverpool Road North,
LIVERPOOL, L31 2HP



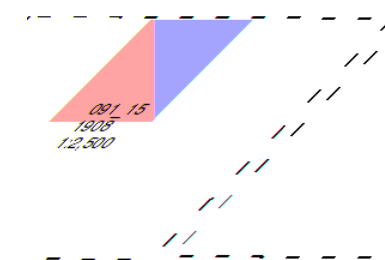
Lancashire And Furness

Published 1908

Source map scale - 1:2,500

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 and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below 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.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 312750026_1_1
Customer Ref: 29122 GNEW
National Grid Reference: 337370, 403180
Slice: A
Site Area (Ha): 0.29
Search Buffer (m): 100

Site Details

Maghull Methodist Church, 180, Liverpool Road North,
LIVERPOOL, L31 2HP



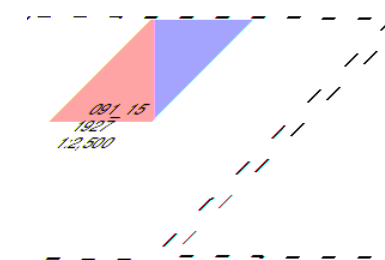
Lancashire And Furness

Published 1927

Source map scale - 1:2,500

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 and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below 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.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 312750026_1_1
Customer Ref: 29122 GNEW
National Grid Reference: 337370, 403180
Slice: A
Site Area (Ha): 0.29
Search Buffer (m): 100

Site Details

Maghull Methodist Church, 180, Liverpool Road North,
LIVERPOOL, L31 2HP



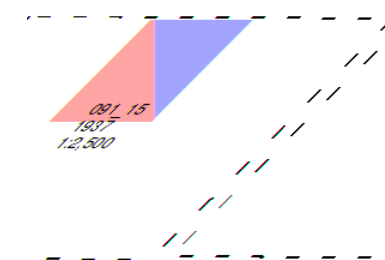
Lancashire And Furness

Published 1937

Source map scale - 1:2,500

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 and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below 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.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 312750026_1_1
Customer Ref: 29122 GNEW
National Grid Reference: 337370, 403180
Slice: A
Site Area (Ha): 0.29
Search Buffer (m): 100

Site Details

Maghull Methodist Church, 180, Liverpool Road North,
LIVERPOOL, L31 2HP



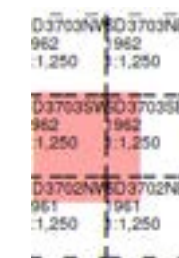
Ordnance Survey Plan

Published 1961 - 1962

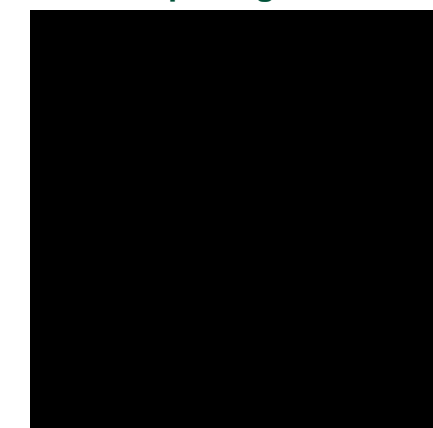
Source map scale - 1:1,250

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 and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below 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.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 312750026_1_1
Customer Ref: 29122 GNEW
National Grid Reference: 337370, 403180
Slice: A
Site Area (Ha): 0.29
Search Buffer (m): 100

Site Details

Maghull Methodist Church, 180, Liverpool Road North,
LIVERPOOL, L31 2HP



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



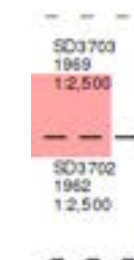
Ordnance Survey Plan

Published 1962 - 1969

Source map scale - 1:2,500

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 and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below 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.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 312750026_1_1
Customer Ref: 29122 GNEW
National Grid Reference: 337370, 403180
Slice: A
Site Area (Ha): 0.29
Search Buffer (m): 100

Site Details

Maghull Methodist Church, 180, Liverpool Road North,
LIVERPOOL, L31 2HP



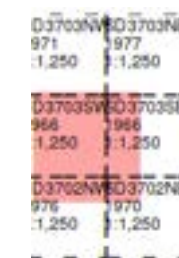
Ordnance Survey Plan

Published 1966 - 1977

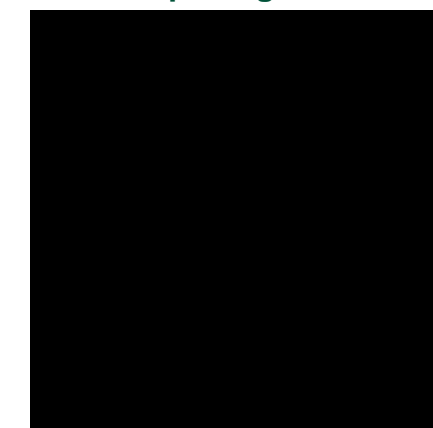
Source map scale - 1:1,250

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 and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below 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.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 312750026_1_1
Customer Ref: 29122 GNEW
National Grid Reference: 337370, 403180
Slice: A
Site Area (Ha): 0.29
Search Buffer (m): 100

Site Details

Maghull Methodist Church, 180, Liverpool Road North,
LIVERPOOL, L31 2HP



Ordnance Survey Plan

Published 1974 - 1990

Source map scale - 1:1,250

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 and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below 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.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 312750026_1_1
Customer Ref: 29122 GNEW
National Grid Reference: 337370, 403180
Slice: A
Site Area (Ha): 0.29
Search Buffer (m): 100

Site Details

Maghull Methodist Church, 180, Liverpool Road North,
LIVERPOOL, L31 2HP



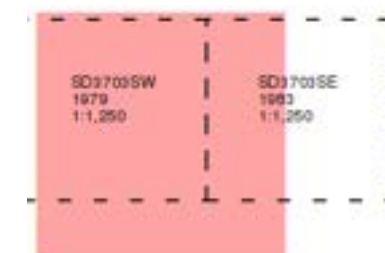
Additional SIMs

Published 1979 - 1983

Source map scale - 1:1,250

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 312750026_1_1
Customer Ref: 29122 GNEW
National Grid Reference: 337370, 403180
Slice: A
Site Area (Ha): 0.29
Search Buffer (m): 100

Site Details

Maghull Methodist Church, 180, Liverpool Road North,
LIVERPOOL, L31 2HP



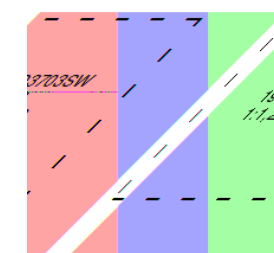
Additional SIMs

Published 1983

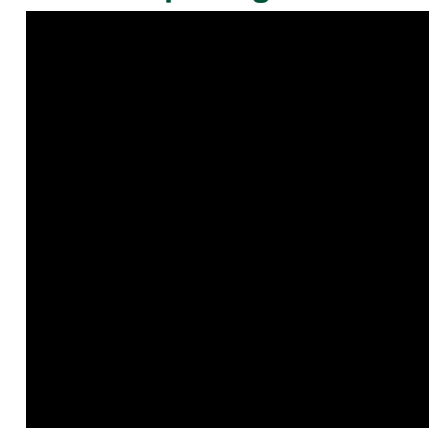
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 312750026_1_1
Customer Ref: 29122 GNEW
National Grid Reference: 337370, 403180
Slice: A
Site Area (Ha): 0.29
Search Buffer (m): 100

Site Details

Maghull Methodist Church, 180, Liverpool Road North,
LIVERPOOL, L31 2HP



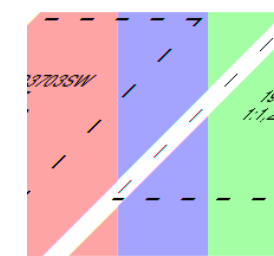
Additional SIMs

Published 1987

Source map scale - 1:1,250

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 312750026_1_1
Customer Ref: 29122 GNEW
National Grid Reference: 337370, 403180
Slice: A
Site Area (Ha): 0.29
Search Buffer (m): 100

Site Details

Maghull Methodist Church, 180, Liverpool Road North,
LIVERPOOL, L31 2HP



Large-Scale National Grid Data

Published 1993

Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 312750026_1_1
Customer Ref: 29122 GNEW
National Grid Reference: 337370, 403180
Slice: A
Site Area (Ha): 0.29
Search Buffer (m): 100

Site Details

Maghull Methodist Church, 180, Liverpool Road North,
LIVERPOOL, L31 2HP

Appendix C

Envirocheck Report

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

312750026_1_1

Customer Reference:

29122 GNEW

National Grid Reference:

337370, 403180

Slice:

A

Site Area (Ha):

0.29

Search Buffer (m):

1000

Site Details:

Maghull Methodist Church, 180

Liverpool Road North

LIVERPOOL

L31 2HP

Client Details:

Mrs N Watson

Hydrock Consultants Limited

2 Esh Plaza

Sir Bobby Robson Way

Great Park

Newcastle upon Tyne

NE13 9BA

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	26
Hazardous Substances	-
Geological	27
Industrial Land Use	28
Sensitive Land Use	34
Data Currency	35
Data Suppliers	40
Useful Contacts	41

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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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		n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1		2		5
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
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 2		1	1	4
Local Authority Pollution Prevention and Control Enforcements	pg 3				2
Nearest Surface Water Feature	pg 3		Yes		
Pollution Incidents to Controlled Waters	pg 3		13	6	15
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 9		2		
River Quality Biology Sampling Points	pg 10		1		
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 10				3 (*33)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 19	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 19	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 19	Yes	n/a	n/a	n/a
Source Protection Zones	pg 19	1			
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				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 19		8	10	32

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					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 26	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Registered Landfill Sites					
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					
Geological					
BGS 1:625,000 Solid Geology	pg 27	Yes	n/a	n/a	n/a
BGS Recorded Mineral Sites	pg 27				2
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 27	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 27	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 27	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 27		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

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Industrial Land Use					
Contemporary Trade Directory Entries	pg 28		7	5	40
Fuel Station Entries	pg 32		3	1	2
Gas Pipelines					
Underground Electrical Cables					
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt	pg 34			1	
Areas of Unadopted Green Belt					
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 34	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: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	0	1	337371 403181
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (S)	5	1	337371 403150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (N)	37	1	337371 403250
1	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: O/S 3, Haweswater Grove, Maghull, Merseyside Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016987005 Permit Version: 1 Effective Date: 30th September 1994 Issued Date: Not Supplied Revocation Date: 2nd May 2001 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Maghull Brook Status: Consent revoked: Discharge ceased (Water Resources Act 1991, Schedule 10 & 6) Positional Accuracy: Located by supplier to within 100m	A13NW (W)	169	2	337180 403240
1	Discharge Consents Operator: United Utilities Water Plc Property Type: Sewerage Network - Sewers - Water Company Location: O/S 3, Haweswater Grove, Maghull, Merseyside Authority: Environment Agency, North West Region Catchment Area: Alt Reference: 01SEF0091 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow 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	A13NW (W)	169	2	337180 403235
2	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Sandy Lane/Nursery Rd, Sefton, Merseyside Authority: Environment Agency, North West Region Catchment Area: Alt Reference: 01sef0017 Permit Version: 2 Effective Date: 14th April 2009 Issued Date: 14th April 2009 Revocation Date: 24th March 2014 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Canal Environment: Receiving Water: Leeds/Liverpool Canal Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	839	2	336720 403770
2	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Sandy Lane/Nursery Rd, Sefton, Merseyside Authority: Environment Agency, North West Region Catchment Area: Alt Reference: 01SEF0017 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 13th April 2009 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Canal Environment: Receiving Water: Leeds/Liverpool Canal Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 100m	A17SE (NW)	839	2	336720 403770

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	<p>Discharge Consents</p> <p>Operator: Mr Neil Pilkington Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Peel Cottage, 330 Green La, Maghull, Liverpool, Merseyside, L31 8bn Authority: Environment Agency, North West Region Catchment Area: Alt Reference: 01m/819 Permit Version: 1 Effective Date: 3rd August 1961 Issued Date: 3rd August 1961 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Unknown Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m</p>	A7NW (SW)	977	2	336506 402651
4	<p>Discharge Consents</p> <p>Operator: United Utilities Water Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Rear 23 Liverpool Road, Sefton, Merseyside Authority: Environment Agency, North West Region Catchment Area: Alt Reference: 01SEF0015 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: 1st January 1995 Revocation Date: 23rd March 2005 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Drain Status: Consent revoked or revised: New Consent issued (Section 37(1)) Positional Accuracy: Located by supplier to within 100m</p>	A7SE (SW)	987	2	336850 402300
4	<p>Discharge Consents</p> <p>Operator: United Utilities Water Plc (?) Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Rear 23 Liverpool Road North Cso, Maghull, Merseyside Authority: Environment Agency, North West Region Catchment Area: Alt Reference: 016997082 Permit Version: 1 Effective Date: 24th March 2005 Issued Date: 24th March 2005 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Maghull Brook 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</p>	A7SE (SW)	996	2	336850 402290
5	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Service Station (Maghull) Location: 1 Liverpool Road, LYDIATE, Merseyside, L31 2LS Authority: Sefton Metropolitan Borough Council, Environmental Health Department Permit Reference: 107 Dated: 1st January 1999 Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station Status: Authorisation revoked Positional Accuracy: Automatically positioned to the address</p>	A13NW (NW)	55	3	337322 403262
6	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Red Lion Autos Location: 100 Liverpool Road North, Maghull, Merseyside, L31 2hg Authority: Sefton Metropolitan Borough Council, Environmental Health Department Permit Reference: 149 Dated: 28th October 2002 Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station Status: Authorisation revoked Positional Accuracy: Manually positioned to the address or location</p>	A8NE (S)	487	3	337420 402672

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Johnsons Location: 16 Central Square, Maghull, L31 0ae Authority: Sefton Metropolitan Borough Council, Environmental Health Department Permit Reference: 163 Dated: 31st October 2007 Process Type: Local Authority Air Pollution Control Description: PG6/46 Dry cleaning Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m</p>	A8NE (S)	542	3	337492 402628
8	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Shell Uk Ltd (Maghull) Location: Wynnstay, Northway, Maghull, Liverpool, Merseyside, L31 0bw Authority: Sefton Metropolitan Borough Council, Environmental Health Department Permit Reference: 121 Dated: 14th December 1998 Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station Status: Authorised Positional Accuracy: Manually positioned to the address or location</p>	A14NW (E)	582	3	337986 403236
9	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Daverick Motor Co Location: 131 Southport Road, Lydiate, Liverpool, Merseyside, L31 2ny Authority: Sefton Metropolitan Borough Council, Environmental Health Department Permit Reference: 090 Dated: 27th March 1996 Process Type: Local Authority Air Pollution Control Description: Part B - General Coating Process (No Specific Reference) Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m</p>	A17SE (NW)	650	3	336961 403736
10	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Maghull Self Serve (Esso) Location: Northway, Maghull, Liverpool, Merseyside, L31 2HA Authority: Sefton Metropolitan Borough Council, Environmental Health Department Permit Reference: 124 Dated: 14th December 1998 Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station Status: Authorised Positional Accuracy: Automatically positioned to the address</p>	A8SE (S)	892	3	337506 402275
11	<p>Local Authority Pollution Prevention and Control Enforcements</p> <p>Location: Northway, Maghull, L31 0bw Type: Air Pollution Control Enforcement Notice Reference: 124 Date Issued: 12th December 2007 Enforcement Date: Not Supplied Details: Lack Of Emergency Procedure - Complied With Positional Accuracy: Manually positioned to the address or location</p>	A8SE (S)	892	3	337506 402275
11	<p>Local Authority Pollution Prevention and Control Enforcements</p> <p>Location: Northway, Maghull, Merseyside, L31 Type: Air Pollution Control Enforcement Notice Reference: EPA/124/002/4 Date Issued: 1st February 2005 Enforcement Date: Not Supplied Details: Section 13 (Epa1990) Enforcement Notice Served For Lack Of Unloading Procedure Positional Accuracy: Manually positioned to the address or location</p>	A8SE (S)	925	3	337516 402243
	<p>Nearest Surface Water Feature</p>	A13SW (W)	119	-	337226 403128
12	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Connection To Surface Drains Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Sewage - Wrong Connection Note: Maghull Brook Incident Date: 13th September 1991 Incident Reference: 91440079 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</p>	A13NW (W)	45	2	337300 403200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: Merseyside Authority: Environment Agency, North West Region Pollutant: Unknown Note: Leeds and Liverpool Canal; None Duck Virus Incident Date: 30th July 1996 Incident Reference: 96440105 Catchment Area: Leeds Liverpool Canal - South Receiving Water: Not Given Cause of Incident: Natural Causes Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m</p>	A13SW (S)	161	2	337300 403000
14	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Connection To Surface Drains Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Unknown Sewage Note: Maghull Brook Incident Date: 22nd October 1992 Incident Reference: 92450009 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</p>	A13NW (NW)	164	2	337205 403295
14	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Connection To Surface Drains Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Other Note: Maghull Brook; Sewage Wrong Cross Connections Incident Date: 21st June 1993 Incident Reference: 93450084 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</p>	A13NW (NW)	167	2	337205 403300
14	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Unknown Note: Maghull Brook Incident Date: 25th June 1992 Incident Reference: 92440074 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</p>	A13NW (NW)	168	2	337200 403295
14	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Connection To Surface Drains Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Unknown Sewage Note: Maghull Brook Incident Date: 12th November 1993 Incident Reference: 93450135 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</p>	A13NW (NW)	169	2	337205 403305
14	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Private Sewage (Non-PLC): Sewerage Systems Location: Merseyside Authority: Environment Agency, North West Region Pollutant: Storm Sewage Note: Maghull Brook; Storm Sewage Incident Date: 28th May 1996 Incident Reference: 96440073 Catchment Area: Alt Receiving Water: Not Given Cause of Incident: High Flow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m</p>	A13NW (NW)	170	2	337195 403290

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
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: Unknown Sewage Note: Maghull Brook Incident Date: 20th May 1992 Incident Reference: 92440067 Catchment Area: Alt Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 1 - Major Incident Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	171	2	337200 403300
14	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Merseyside Authority: Environment Agency, North West Region Pollutant: Oils - Petrol Note: Maghull Brook; Petrol Incident Date: 19th February 1996 Incident Reference: 96440027 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	A13NW (NW)	173	2	337195 403295
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: Maghull Brook Csw Incident Date: 26th October 1993 Incident Reference: 93450130 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	A13NW (NW)	173	2	337200 403305
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: Maghull Brook Incident Date: 24th May 1995 Incident Reference: 95440086 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	A13NW (NW)	175	2	337195 403300
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: Maghull Brook Incident Date: 22nd July 1995 Incident Reference: 95440118 Catchment Area: Alt Receiving Water: Not Given Cause of Incident: Blocked Sewer Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	178	2	337195 403305
15	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: 1st March 1995 Incident Reference: 95440040 Catchment Area: Leeds Liverpool Canal - South Receiving Water: Not Given Cause of Incident: Accidental Spillage/Leakage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	238	2	337200 403400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Connection To Surface Drains Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Unknown Sewage Note: Maghull Brook Incident Date: 11th March 1992 Incident Reference: 92440012 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</p>	A13NW (NW)	260	2	337100 403295
16	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Connection To Surface Drains Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Unknown Sewage Note: Maghull Brook Incident Date: 23rd March 1992 Incident Reference: 92430034 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</p>	A13NW (NW)	262	2	337100 403300
17	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Private Sewage (Non-PLC): Sewerage Systems Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Unknown Sewage Note: Maghull Brook Incident Date: 14th April 1992 Incident Reference: 92440046 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</p>	A13NW (NW)	310	2	337100 403400
18	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Private Sewage (Non-PLC): Sewerage Systems Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Unknown Sewage Note: Maghull Brook Incident Date: 7th April 1992 Incident Reference: 92440036 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</p>	A12NE (NW)	394	2	337000 403400
19	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Boats/Ships Location: Merseyside Authority: Environment Agency, North West Region Pollutant: Unknown Note: None; Unknown Incident Date: 26th August 1994 Incident Reference: 94440124 Catchment Area: Leeds Liverpool Canal - South Receiving Water: Pond/Lake Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m</p>	A12NE (NW)	447	2	337000 403495
19	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Boats/Ships Location: Merseyside Authority: Environment Agency, North West Region Pollutant: Unknown Note: None Incident Date: 13th June 1994 Incident Reference: 94440069 Catchment Area: Alt Receiving Water: Pond/Lake Cause of Incident: Collision Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m</p>	A12NE (NW)	450	2	337000 403500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
20	Pollution Incidents to Controlled Waters Property Type: Pollution Found Source Not Determined Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Chemicals - Paints / Dyes Note: Wood Paint/Preserver Incident Date: 14th September 1995 Incident Reference: 95440153 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	A8NE (S)	556	2	337400 402600
21	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Unknown Note: Not Supplied Incident Date: 7th June 1992 Incident Reference: 92440076 Catchment Area: Leeds Liverpool Canal - South Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A8NW (S)	557	2	337300 402600
22	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: 2nd June 1992 Incident Reference: 92440072 Catchment Area: Leeds Liverpool Canal - South Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SE (S)	656	2	337400 402500
22	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Merseyside Authority: Environment Agency, North West Region Pollutant: Oils - Unknown Note: Leeds and Liverpool Canal; Road Run-Off And Oil Incident Date: 29th October 1996 Incident Reference: 96440158 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	A8SE (S)	661	2	337400 402495
22	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Merseyside Authority: Environment Agency, North West Region Pollutant: Not Given Note: None Pollution Found Incident Date: 1st May 1992 Incident Reference: 92440057 Catchment Area: Leeds Liverpool Canal - South Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SE (S)	662	2	337405 402495
23	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Industrial Effluent Note: Maghull Brook; Vehicle Washings Incident Date: 10th August 1993 Incident Reference: 93450103 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	A8SE (S)	691	2	337600 402500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
24	Pollution Incidents to Controlled Waters Property Type: Restaurant/Hotels/Pubs Location: Riverside Lodge, AMBLESIDE Authority: Environment Agency, North West Region Pollutant: Sewage - Septic Tank Effluent Note: Sewage From Septic Tank To River Incident Date: 4th November 1998 Incident Reference: NO980453 Catchment Area: Windermere Receiving Water: Freshwater Stream/River Cause of Incident: Poor/Inadequate Maintenance Incident Severity: Category 3 - Minor Incident Positional Accuracy: Unknown	A18NW (N)	788	2	337300 404000
25	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Merseyside Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Natural Note: Leeds and Liverpool Canal; Some Algae Incident Date: 3rd July 1996 Incident Reference: 96440093 Catchment Area: Leeds Liverpool Canal - South Receiving Water: Not Given Cause of Incident: Algal Bloom Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SE (S)	856	2	337400 402300
26	Pollution Incidents to Controlled Waters Property Type: No Premises Identified Location: Leeds-Liverpool Canal, Merseyside Authority: Environment Agency, North West Region Pollutant: Unknown Note: Not Supplied Incident Date: 16th July 1999 Incident Reference: 30224 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Other Cause Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SE (S)	866	2	337500 402300
26	Pollution Incidents to Controlled Waters Property Type: No Premises Identified Location: Leeds-Liverpool Canal, Shap Lane, Merseyside Authority: Environment Agency, North West Region Pollutant: Unknown Note: Not Supplied Incident Date: 17th July 1999 Incident Reference: 30243 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Other Cause Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SE (S)	871	2	337500 402295
27	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Other Note: Maghull Brook; Drain Trace Dye Incident Date: 22nd November 1994 Incident Reference: 94440155 Catchment Area: Alt Receiving Water: Not Given Cause of Incident: Miscellaneous/Other Pollution Type Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NW (W)	894	2	336500 403500
28	Pollution Incidents to Controlled Waters Property Type: WSC Sewage, Sewerage & Supply: Anglian Water Limited Location: Lydiate Hall Farm (Rear Of), Pilling Lane, Merseyside Authority: Environment Agency, North West Region Pollutant: General Biodegradable : Crude Sewage Note: Not Supplied Incident Date: 1st April 1999 Incident Reference: 29133 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unauthorised Activity : Unconsented Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17SW (NW)	950	2	336600 403800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
29	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Merseyside Authority: Environment Agency, North West Region Pollutant: Oils - Unknown Note: Leeds and Liverpool Canal; Oil Incident Date: 22nd May 1996 Incident Reference: 96440072 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	A8SE (S)	956	2	337400 402200
30	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Natural Note: Brathay Incident Date: 19th July 1994 Incident Reference: 94230124 Catchment Area: Leven Receiving Water: Not Given Cause of Incident: In River Works Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NW (W)	965	2	336400 403400
31	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: Unknown Sewage Note: Not Supplied Incident Date: 25th February 1993 Incident Reference: 93450021 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	A8SW (S)	966	2	337200 402200
	River Quality Name: Maghull Bk GQA Grade: River Quality D Reach: Qsl At L/L Canal To Alt Estimated Distance (km): 2.1 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A13NW (NW)	224	2	337140 403299
	River Quality Name: Leeds/Liverpool Canal GQA Grade: River Quality C Reach: Liverpool Docks To Wharehouse Halsall Estimated Distance (km): 29.5 Flow Rate: Flow greater than 80 cumecs Flow Type: Canal Year: 2000	A13SW (SW)	244	2	337118 403060

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
32	River Quality Biology Sampling Points Name: Maghull Brook Reach: QSI At L/L Canal To Alt Estimated Distance: 2.10 Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Biology GQA Grade F - Bad Year: 1995 GQA Grade: River Quality Biology GQA Grade E - Poor Year: 2000 GQA Grade: River Quality Biology GQA Grade C - Fairly Good Year: 2002 GQA Grade: River Quality Biology GQA Grade C - Fairly Good Year: 2003 GQA Grade: River Quality Biology GQA Grade C - Fairly Good Year: 2004 GQA Grade: River Quality Biology GQA Grade D - Fair Year: 2005 GQA Grade: River Quality Biology GQA Grade D - Fair Year: 2006 GQA Grade: River Quality Biology GQA Grade D - Fair Year: 2007 GQA Grade: River Quality Biology GQA Grade D - Fair Year: 2008 GQA Grade: River Quality Biology GQA Grade D - Fair Year: 2009 GQA Grade: River Quality Biology GQA Grade D - Fair	A13NW (NW)	215	2	337150 403300
33	Water Abstractions Operator: British Waterways Board Licence Number: 2569030995 Permit Version: Not Supplied Location: Leeds & Liverpool Canal, LYDIATE, Merseyside Authority: Environment Agency, North West Region Abstraction: Cooling & Manufacturing Abstraction Type: Not Supplied Source: Canal Daily Rate (m3): 0 Yearly Rate (m3): 17048 Details: Additional Purpose: Cooling; 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	A17SE (NW)	732	2	336800 403700
34	Water Abstractions Operator: J R Harrison & Sons Licence Number: 2569031054 Permit Version: 100 Location: Ponds (2) At Moss Lane Farm, Lydiate, Merseyside Authority: Environment Agency, North West Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 455 Yearly Rate (m3): 9092 Details: Land At Lydiate, Merseyside Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 9th April 1981 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A19NW (NE)	808	2	337800 403900
35	Water Abstractions Operator: J R Harrison & Sons Licence Number: 2569031054 Permit Version: 100 Location: Ponds (2) At Moss Lane Farm, Lydiate, Merseyside Authority: Environment Agency, North West Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Land At Lydiate, Merseyside Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 9th April 1981 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A19NW (NE)	945	2	337900 404000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: P Rigby Licence Number: 2569031027 Permit Version: 102 Location: Borehole At Ngr Sd365039 Authority: Environment Agency, North West Region Abstraction: General Agriculture: 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: Premises, Lydiate House Farm, Lydiate Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2021 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A17NW (NW)	1091	2	336500 403900
	Water Abstractions Operator: P Rigby Licence Number: 2569031027 Permit Version: 101 Location: Borehole At Ngr Sd365039 Authority: Environment Agency, North West Region Abstraction: General Agriculture: 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: Premises, Lydiate House Farm, Lydiate Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 3rd September 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A17NW (NW)	1091	2	336500 403900
	Water Abstractions Operator: R & E Rigby Licence Number: 2569031027 Permit Version: 100 Location: Boreholes X 3 At Ngr Sd365039 And Sd361037 Authority: Environment Agency, North West Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 364 Yearly Rate (m3): 15911 Details: Premises, Lydiate House Farm, Lydiate Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 7th April 1997 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A17NW (NW)	1091	2	336500 403900
	Water Abstractions Operator: J R Harrison Licence Number: 2569031053 Permit Version: Not Supplied Location: Reservoir Fed By Surface Drains, Highway Farm, LYDIATE, Merseyside Authority: Environment Agency, North West Region Abstraction: Agricultural Spray Irrigation (Summer) Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 455 Yearly Rate (m3): 9092 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	A20SW (NE)	1206	2	338500 403700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: P Rigby Licence Number: 2569031027 Permit Version: 102 Location: Borehole At Sd 3610 0370 Authority: Environment Agency, North West Region Abstraction: General Agriculture: 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: Premises, Lydiate House Farm, Lydiate Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2021 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A16SE (W)	1339	2	336100 403700
	Water Abstractions Operator: P Rigby Licence Number: 2569031027 Permit Version: 101 Location: Borehole At Sd 3610 0370 Authority: Environment Agency, North West Region Abstraction: General Agriculture: 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: Premises, Lydiate House Farm, Lydiate Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 3rd September 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A16SE (W)	1339	2	336100 403700
	Water Abstractions Operator: Ivan Ambrose & Company Ltd Licence Number: 2569031134 Permit Version: 3 Location: Sherwood Sandstone Authority: Environment Agency, North West Region Abstraction: General Agriculture: 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: Land At Rose Mount Nurseries Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2016 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A24SW (NE)	1361	2	337979 404429
	Water Abstractions Operator: J R Harrison & Sons Licence Number: 2569031052 Permit Version: 100 Location: Suddell Brk At Highway Farm, Lydiate, Merseyside \$219 Authority: Environment Agency, North West Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Land At Lydiate, Merseyside Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 9th April 1981 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A24SE (NE)	1361	2	338200 404300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>Water Abstractions</p> <p>Operator: Ivan Ambrose & Company Ltd Licence Number: 2569031134 Permit Version: 2 Location: Sherwood Sandstone Authority: Environment Agency, North West Region Abstraction: General Agriculture: 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: Land At Rose Mount Nurseries Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 6th September 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A24SW (NE)	1362	2	337980 404430
	<p>Water Abstractions</p> <p>Operator: Ivan Ambrose & Company Ltd Licence Number: 2569031134 Permit Version: 1 Location: Sherwood Sandstone Authority: Environment Agency, North West Region Abstraction: General Agriculture: 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: Land At Rose Mount Nurseries Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 7th June 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A24SW (NE)	1362	2	337980 404430
	<p>Water Abstractions</p> <p>Operator: J R Harrison & Sons Licence Number: 2569031052 Permit Version: 100 Location: Suddell Brk At Highway Farm, Lydiate, Merseyside Authority: Environment Agency, North West Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): 455 Yearly Rate (m3): 9092 Details: Land At Lydiate, Merseyside Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 9th April 1981 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	A25SW (NE)	1486	2	338500 404200
	<p>Water Abstractions</p> <p>Operator: Mr Taylor Licence Number: 2569031087 Permit Version: 100 Location: Sudell Brook At Aughton Ormskirk Authority: Environment Agency, North West Region Abstraction: General Agriculture: Spray Irrigation - Storage Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): 227 Yearly Rate (m3): 4546 Details: Land At Aughton, Ormskirk Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2020 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	A20NW (NE)	1522	2	338700 403995

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>Water Abstractions</p> <p>Operator: Mr Mark Joseph Taylor Licence Number: 2569031087 Permit Version: Not Supplied Location: Aughton, ORMSKIRK Authority: Environment Agency, North West Region Abstraction: Transfer Water Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 227 Yearly Rate (m3): 4546 Details: Sudell Brook 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</p>	A20NW (NE)	1525	2	338700 404000
	<p>Water Abstractions</p> <p>Operator: Canal And River Trust Licence Number: 2569031045 Permit Version: 103 Location: Leeds/L/Pool Canal@Gore'S Fm Clieves Hills,Aughton,Ormskirk Authority: Environment Agency, North West Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): 720 Yearly Rate (m3): 27276 Details: See Licence File Authorised Start: 31 March Authorised End: 01 November Permit Start Date: 1st April 2015 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A22NE (N)	1538	2	336800 404650
	<p>Water Abstractions</p> <p>Operator: British Waterways Board Licence Number: 2569031045 Permit Version: 102 Location: Leeds/L/Pool Canal@Gore'S Fm Clieves Hills,Aughton,Ormskirk Authority: Environment Agency, North West Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: (J R Prescott, Gores Farm, Aughton) Authorised Start: 31 March Authorised End: 01 November Permit Start Date: 3rd October 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A22NE (N)	1538	2	336800 404650
	<p>Water Abstractions</p> <p>Operator: British Waterways Licence Number: 2569031045 Permit Version: 100 Location: Leeds/L/Pool Canal@Gore'S Fm Clieves Hills,Aughton,Ormskirk Authority: Environment Agency, North West Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): 720 Yearly Rate (m3): 27276 Details: (J R Prescott, Gores Farm, Aughton) Authorised Start: 31 March Authorised End: 01 November Permit Start Date: 23rd March 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A22NE (N)	1538	2	336800 404650

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>Water Abstractions</p> <p>Operator: Canal And River Trust Licence Number: 2569031045 Permit Version: 104 Location: Leeds/L/Pool Canal@Gore'S Fm Clieves Hills,Aughton,Ormskirk Authority: Environment Agency, North West Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 31 March Authorised End: 01 November Permit Start Date: 11th November 2020 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A22NE (N)	1540	2	336799 404652
	<p>Water Abstractions</p> <p>Operator: British Waterways Board Licence Number: 2569031031 Permit Version: Not Supplied Location: Leeds & Liverpool Canal, Pygons Hillfarm, Lydiate, LIVERPOOL Authority: Environment Agency, North West Region Abstraction: Agricultural Spray Irrigation (Summer) Abstraction Type: Not Supplied Source: Canal Daily Rate (m3): 616 Yearly Rate (m3): 3082 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</p>	A23NW (N)	1606	2	337100 404800
	<p>Water Abstractions</p> <p>Operator: British Waterways Board Licence Number: 2569031031 Permit Version: Not Supplied Location: Leeds & Liverpool Canal, Pygons Hillfarm, Lydiate, LIVERPOOL Authority: Environment Agency, North West Region Abstraction: Agricultural Spray Irrigation (Summer) Abstraction Type: Not Supplied Source: Spring Daily Rate (m3): 616 Yearly Rate (m3): 3082 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</p>	(N)	1693	2	337200 404900
	<p>Water Abstractions</p> <p>Operator: J R Harrison & Sons Licence Number: 2569031052 Permit Version: Not Supplied Location: Suddell Brk At Highway Farm, Lydiate, MERSEYSIDE Authority: Environment Agency, North West Region Abstraction: Agricultural Spray Irrigation (Summer) Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 455 Yearly Rate (m3): 9092 Details: Licence Status : Current 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</p>	(E)	1707	2	339100 403400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>Water Abstractions</p> <p>Operator: A W & M A Webster Licence Number: 2569031111 Permit Version: Not Supplied Location: Sudell Brook At, Lydiate, LIVERPOOL, Merseyside Authority: Environment Agency, North West Region Abstraction: Transfer Water Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 575 Yearly Rate (m3): 3522 Details: Additional Purpose: Agricultural Spray Irrigation (Summer); Licence Status: Cancelled 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</p>	A24NE (NE)	1746	2	338105 404795
	<p>Water Abstractions</p> <p>Operator: A W & M A Webster Licence Number: 2569031032 Permit Version: Not Supplied Location: Sudell Brook At, Lydiate, LIVERPOOL Authority: Environment Agency, North West Region Abstraction: Agricultural Spray Irrigation (Summer) Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 144 Yearly Rate (m3): 1028 Details: Additional Purpose: Licence Status: Cancelled 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</p>	A24NE (NE)	1791	2	338200 404800
	<p>Water Abstractions</p> <p>Operator: British Waterways Board Licence Number: 2569031028 Permit Version: Not Supplied Location: Leeds & Liverpool Canal, Ivy Farm, Hall Lane, LYDIATE, Merseyside Authority: Environment Agency, North West Region Abstraction: Agricultural Spray Irrigation (Summer) Abstraction Type: Not Supplied Source: Canal Daily Rate (m3): 55 Yearly Rate (m3): 1600 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</p>	(N)	1794	2	337201 405001
	<p>Water Abstractions</p> <p>Operator: A & M Webster Licence Number: 2569031112 Permit Version: 100 Location: Un-Named Watercourse In Lydiate Authority: Environment Agency, North West Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 120 Yearly Rate (m3): 1200 Details: Land At Lydiate Authorised Start: 31 October Authorised End: 01 April Permit Start Date: 26th November 2018 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A24NE (NE)	1808	2	338110 404860

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>Water Abstractions</p> <p>Operator: A W & M A Webster Licence Number: 2569031113 Permit Version: 101 Location: Reservoir In Lydiate, Liverpool Authority: Environment Agency, North West Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Lydiate, Liverpool Authorised Start: 31 March Authorised End: 01 November Permit Start Date: 1st April 2020 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A24NE (NE)	1821	2	338120 404870
	<p>Water Abstractions</p> <p>Operator: A & M Webster Licence Number: 2569031113 Permit Version: 100 Location: Reservoir In Lydiate, Liverpool Authority: Environment Agency, North West Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 1080 Yearly Rate (m3): 1200 Details: Land At Lydiate, Liverpool Authorised Start: 31 March Authorised End: 01 November Permit Start Date: 5th October 1995 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A24NE (NE)	1821	2	338120 404870
	<p>Water Abstractions</p> <p>Operator: A & M Webster Licence Number: 2569031032 Permit Version: 100 Location: Sudell Brook At Lydiate Authority: Environment Agency, North West Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): 144 Yearly Rate (m3): 1028 Details: Pygons Hill Farm At Lydiate,Liverp'L Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 1st April 2019 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	(N)	1961	2	338040 405050
	<p>Water Abstractions</p> <p>Operator: A W & M A Webster Licence Number: 2569031111 Permit Version: 101 Location: Sudell Brook At Lydiate,Nr Liverpool Authority: Environment Agency, North West Region Abstraction: General Agriculture: Spray Irrigation - Storage Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Pygons Hill Farm, Lydiate Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 31st March 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	(N)	1961	2	338040 405051

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: A & M Webster Licence Number: 2569031111 Permit Version: 100 Location: Sudell Brook At Lydiate Authority: Environment Agency, North West Region Abstraction: General Agriculture: Spray Irrigation - Storage Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Pygons Hill Farm, Lydiate Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 1st April 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1961	2	338040 405051
	Water Abstractions Operator: A & M Webster Licence Number: 2569031111 Permit Version: 100 Location: Sudell Brook At Lydiate,Nr Liverpool Authority: Environment Agency, North West Region Abstraction: General Agriculture: Transfer Between Sources Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): 575 Yearly Rate (m3): 3522 Details: Land At Pygons Hill Farm, Lydiate Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 14th August 1997 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1961	2	338040 405050
	Water Abstractions Operator: United Utilities Water Ltd Licence Number: 2569031020 Permit Version: 101 Location: Well At Springfield Pumping Station,Ormskirk, Lancashire Authority: Environment Agency, North West Region Abstraction: Public Water Supply: Potable Water Supply - 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 100m	A25NE (NE)	1980	2	338800 404600
	Water Abstractions Operator: United Utilities Water Ltd Licence Number: 2569031020 Permit Version: 100 Location: Well At Springfield Pumping Station,Ormskirk, Lancashire Authority: Environment Agency, North West Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 9092 Yearly Rate (m3): 2150000 Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 16th January 1995 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A25NE (NE)	1980	2	338800 404600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: British Waterways Board Licence Number: 2569031028 Permit Version: Not Supplied Location: Leeds & Liverpool Canal, Ivy Farm, Hall Lane, LYDIATE, Merseyside Authority: Environment Agency, North West Region Abstraction: Agricultural Spray Irrigation (Summer) Abstraction Type: Not Supplied Source: Spring Daily Rate (m3): 55 Yearly Rate (m3): 1600 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	(N)	1988	2	337300 405200
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Mixed Dilution: 300-550 mm/year Baseflow Index: >70% Superficial Patchiness: >90% Superficial Thickness: >10m Superficial Recharge: High	A13SW (SW)	0	4	337371 403181
	Groundwater Vulnerability - Soluble Rock Risk None				
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	A13SW (SW)	0	4	337371 403181
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SW (SW)	0	4	337371 403181
36	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.	A13SW (SW)	0	2	337371 403181
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
37	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 878.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Leeds and Liverpool Canal Catchment Name: Aire and Calder Primacy: 1	A13SW (W)	126	5	337217 403135

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
38	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 6.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 2	A13NW (W)	163	5	337186 403238
39	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 1793.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Leeds and Liverpool Canal Catchment Name: Aire and Calder Primacy: 1	A13NW (W)	163	5	337186 403238
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 2	A13NW (W)	169	5	337180 403236
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 94.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 2	A13NW (W)	172	5	337176 403236
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 81.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Maghull Brook Catchment Name: Alt Primacy: 1	A13NW (W)	244	5	337110 403270
43	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	A13NW (W)	244	5	337110 403270
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 22.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13NW (W)	245	5	337110 403273
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13NW (NW)	252	5	337108 403295
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 40.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13NW (NW)	258	5	337108 403309

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 16.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13NW (NW)	277	5	337106 403350
48	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13NW (NW)	286	5	337105 403366
49	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.6 Watercourse Level: Underground Permanent: True Watercourse Name: Maghull Brook Catchment Name: Alt Primacy: 1	A13NW (W)	313	5	337040 403272
50	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Maghull Brook Catchment Name: Alt Primacy: 1	A12NE (W)	324	5	337028 403268
51	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 432.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Maghull Brook Catchment Name: Alt Primacy: 1	A12NE (W)	332	5	337019 403265
52	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 141.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A12NE (W)	332	5	337019 403267
53	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 13.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A12SE (SW)	356	5	337027 402989
54	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 30.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A18SE (NE)	464	5	337594 403619
55	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 47.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A12SE (W)	532	5	336821 403049

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 17.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A12NE (W)	574	5	336771 403226
57	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 196.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A12NE (NW)	649	5	336770 403510
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 80.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A17SE (NW)	656	5	336842 403631
59	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 47.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A19SW (NE)	700	5	338019 403532
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 229.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Maghull Brook Catchment Name: Alt Primacy: 1	A12NW (W)	740	5	336617 403333
61	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 2	A12NW (W)	740	5	336617 403333
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 68.2 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 2	A12NW (W)	740	5	336617 403334
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 53.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A19SE (NE)	745	5	338050 403568
64	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 240.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A7NE (SW)	748	5	336719 402743

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
65	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 174.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A19SW (NE)	758	5	337951 403721
66	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 2.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Leeds and Liverpool Canal Catchment Name: Aire and Calder Primacy: 1	A8SE (S)	765	5	337380 402390
67	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 2791.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Leeds and Liverpool Canal Catchment Name: Aire and Calder Primacy: 1	A8SE (S)	767	5	337381 402388
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 141.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A12NW (W)	801	5	336596 403493
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 79.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 2	A12NW (W)	808	5	336551 403353
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 112.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A17SW (NW)	813	5	336656 403642
71	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 410.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A17SW (NW)	824	5	336631 403620
72	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 131.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A17SE (NW)	842	5	336732 403787
73	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 22.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A7NW (SW)	862	5	336678 402606

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
74	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 38.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A12NW (W)	863	5	336505 403403
75	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 243.4 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 2	A12NW (W)	876	5	336490 403393
76	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 103.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A18NW (N)	913	5	337255 404121
77	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 211.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A12NW (W)	923	5	336458 403461
78	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.7 Watercourse Level: Underground Permanent: True Watercourse Name: Maghull Brook Catchment Name: Alt Primacy: 1	A12NW (W)	936	5	336414 403296
79	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 175.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Maghull Brook Catchment Name: Alt Primacy: 1	A12NW (W)	942	5	336408 403297
80	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A7SW (SW)	967	5	336625 402506
81	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 49.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A7SW (SW)	970	5	336622 402506
82	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A7SW (SW)	970	5	336622 402506

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
83	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 10.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A7SW (SW)	972	5	336628 402497
84	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 204.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A7NW (SW)	979	5	336506 402646
85	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 237.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A15NW (E)	990	5	338395 403227
86	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 30.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A7SE (SW)	1000	5	336852 402284

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Merseyside Waste Disposal Authority - Has supplied landfill data		0	6	337371 403181
	Local Authority Landfill Coverage Name: Sefton Metropolitan Borough Council - Has no landfill data to supply		0	3	337371 403181

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Triassic Rocks (Undifferentiated)	A13SW (SW)	0	1	337371 403181
87	BGS Recorded Mineral Sites Site Name: Maghull Location: Maghull, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 96677 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Permian, Triassic Geology: Sherwood Sandstone Group Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A8NE (S)	550	1	337378 402605
88	BGS Recorded Mineral Sites Site Name: Maghull Location: Maghull, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 96676 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Permian, Triassic Geology: Sherwood Sandstone Group Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A8SE (S)	814	1	337545 402361
	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: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	0	1	337371 403181
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	0	1	337371 403181
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	0	1	337371 403181
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	0	1	337371 403181
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	0	1	337371 403181
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	27	1	337348 403125
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	0	1	337371 403181
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	27	1	337348 403125
	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	A13SW (SW)	0	1	337371 403181
	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	A13SW (SW)	0	1	337371 403181

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
89	Contemporary Trade Directory Entries Name: Ironique Laundry Service Location: 162, Liverpool Road North, Liverpool, Merseyside, L31 2HP Classification: Laundries & Launderettes Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (S)	113	-	337340 403043
89	Contemporary Trade Directory Entries Name: Special T Products Location: 158, Liverpool Road North, Liverpool, L31 2HP Classification: Veterinary Pharmacies Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (S)	121	-	337350 403034
89	Contemporary Trade Directory Entries Name: Office & Educational Solutions Ltd Location: 158 Liverpool Road North, Maghull, Liverpool, L31 2HP Classification: Office Furniture & Equipment Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13SW (S)	122	-	337350 403034
89	Contemporary Trade Directory Entries Name: O & E S Design Location: 158 Liverpool Rd North, Liverpool, L31 2HP Classification: Office Furniture & Equipment Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13SW (S)	122	-	337349 403034
89	Contemporary Trade Directory Entries Name: O & E S Manufacturing Location: 158, Liverpool Road North, Liverpool, Merseyside, L31 2HP Classification: Office Furniture & Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (S)	122	-	337350 403034
90	Contemporary Trade Directory Entries Name: Air Science Technologies Location: 44a Liverpool Road, Lydiate, Liverpool, Merseyside, L31 2LZ Classification: Laboratory Equipment, Instruments & Supplies Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (N)	193	-	337432 403388
91	Contemporary Trade Directory Entries Name: Stuttgart Legends Location: 7, Nedens Grove, Liverpool, L31 2LR Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	225	-	337241 403412
92	Contemporary Trade Directory Entries Name: Lolly'S Mobile Pet Foods Location: 57, Southport Road, Lydiate, Liverpool, L31 2HX Classification: Pet Foods & Animal Feeds Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	307	-	337122 403423
93	Contemporary Trade Directory Entries Name: Cleaners Maghull Location: 12, Dodds Lane, Liverpool, L31 0AW Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	340	-	337449 402825
94	Contemporary Trade Directory Entries Name: M P P Location: 7 Highgate Road, Liverpool, Merseyside, L31 0DA Classification: Pet Foods & Animal Feeds Status: Active Positional Accuracy: Manually positioned to the address or location	A14SW (E)	398	-	337795 403081
95	Contemporary Trade Directory Entries Name: Carpet Cleaning Maghull Location: 112, Liverpool Road North, Liverpool, L31 2HN Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	427	-	337402 402730
96	Contemporary Trade Directory Entries Name: Red Line Garage Location: 100, Liverpool Road North, Liverpool, L31 2HN Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	487	-	337422 402672

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
96	Contemporary Trade Directory Entries Name: Colourprint Location: 92, Liverpool Road North, Liverpool, L31 2HN Classification: Printers Status: Active Positional Accuracy: Automatically positioned to the address	A8NE (S)	527	-	337414 402631
97	Contemporary Trade Directory Entries Name: Johnson Cleaners (Uk) Ltd Location: 16, Central Square, Liverpool, L31 0AE Classification: Dry Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	542	-	337504 402630
97	Contemporary Trade Directory Entries Name: Heritage Print Location: 92a, Liverpool Road North, Liverpool, L31 2HN Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	552	-	337473 402615
98	Contemporary Trade Directory Entries Name: Klick Photo Point Location: 5, Central Square, Liverpool, L31 0AE Classification: Photographic Processors Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	558	-	337570 402629
98	Contemporary Trade Directory Entries Name: Sketchley Retail Ltd Location: 5, Central Square, Liverpool, L31 0AE Classification: Dry Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	558	-	337570 402629
98	Contemporary Trade Directory Entries Name: Klick Location: 5, Central Square, Liverpool, Merseyside, L31 0AE Classification: Photo & Digital Imaging Bureaus Status: Inactive Positional Accuracy: Manually positioned to the address or location	A8NE (S)	558	-	337570 402629
99	Contemporary Trade Directory Entries Name: Shell Service Station Location: Northway, Maghull, Liverpool, Merseyside, L31 0BW Classification: Petrol Filling Stations Status: Active Positional Accuracy: Automatically positioned to the address	A14NW (E)	587	-	337990 403253
99	Contemporary Trade Directory Entries Name: Shell Select Location: Wynnstay, Northway, Maghull, Liverpool, L31 0BW Classification: Petrol Filling Stations - 24 Hour Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (E)	588	-	337990 403253
100	Contemporary Trade Directory Entries Name: W M S Supplies Ltd Location: 41, Ambleside Road, Maghull, Liverpool, L31 6BY Classification: Woodworking Machinery Status: Active Positional Accuracy: Automatically positioned to the address	A9NW (SE)	604	-	337855 402759
100	Contemporary Trade Directory Entries Name: Trailer Repairs Location: 28, AMBLESIDE ROAD, MAGHULL, L31 6BY Classification: Caravans - Servicing & Repairs Status: Active Positional Accuracy: Automatically positioned to the address	A9NW (SE)	643	-	337872 402721
101	Contemporary Trade Directory Entries Name: Mirchi Foods Location: 20, Cornmill Lodge, Liverpool Road North, Liverpool, L31 2PL Classification: Food Products - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (S)	610	-	337336 402546
102	Contemporary Trade Directory Entries Name: Daverick Motor Co Location: 131, Southport Road, Lydiate, Liverpool, L31 2JW Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	619	-	336976 403708

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
103	<p>Contemporary Trade Directory Entries</p> <p>Name: Morton'S Dairies Ltd Location: Kenyons Lane, Lydiate, Liverpool, L31 0BP Classification: Dairies Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A19SW (NE)	708	-	338000 403580
104	<p>Contemporary Trade Directory Entries</p> <p>Name: Direct Hygiene Ocs Ltd Location: 137, South Meade, Liverpool, L31 8EQ Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A8SW (SW)	755	-	337052 402458
105	<p>Contemporary Trade Directory Entries</p> <p>Name: Maghull Van Centre Location: Unit 3 Northway, Maghull, Liverpool, Merseyside, L31 2HA Classification: Commercial Vehicle Dealers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location</p>	A8SE (S)	762	-	337614 402430
106	<p>Contemporary Trade Directory Entries</p> <p>Name: The Boat Centre Location: 52, Blackhurst Road, Liverpool, L31 4JW Classification: Marine Equipment & Supplies Status: Active Positional Accuracy: Automatically positioned to the address</p>	A18NW (N)	826	-	337109 404004
107	<p>Contemporary Trade Directory Entries</p> <p>Name: Copycat Print Location: 31, Liverpool Road North, Liverpool, L31 2HB Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A8SE (S)	840	-	337416 402317
107	<p>Contemporary Trade Directory Entries</p> <p>Name: Copycat Location: 31, Liverpool Road North, Liverpool, Merseyside, L31 2HB Classification: Printers Status: Inactive Positional Accuracy: Manually positioned to the address or location</p>	A8SE (S)	840	-	337416 402317
107	<p>Contemporary Trade Directory Entries</p> <p>Name: Maghull Motorist Centre Location: 15, Liverpool Road North, Liverpool, L31 2HB Classification: Tyre Dealers Status: Active Positional Accuracy: Automatically positioned to the address</p>	A8SE (S)	879	-	337425 402278
107	<p>Contemporary Trade Directory Entries</p> <p>Name: Absolute Cool Heat Ltd Location: Maghull Business Centre 1 Liverpool Rd North, Liverpool, Merseyside, L31 2HB Classification: Washing Machines - Servicing & Repairs Status: Inactive Positional Accuracy: Manually positioned within the geographical locality</p>	A8SE (S)	901	-	337432 402257
108	<p>Contemporary Trade Directory Entries</p> <p>Name: A1 Dampcoursing & Wall Ties Location: 11, Aragon Close, Liverpool, L31 9PU Classification: Damp & Dry Rot Control Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A14NE (E)	859	-	338258 403299
109	<p>Contemporary Trade Directory Entries</p> <p>Name: Carpet Care Services Location: 193, Green Lane, Maghull, Liverpool, L31 8BD Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A7NE (SW)	875	-	336744 402516
109	<p>Contemporary Trade Directory Entries</p> <p>Name: Carpet Care Services Location: 193, Green Lane, Maghull, Liverpool, L31 8BD Classification: Carpet, Curtain & Upholstery Cleaners Status: Active Positional Accuracy: Automatically positioned to the address</p>	A7NE (SW)	876	-	336744 402516

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
110	<p>Contemporary Trade Directory Entries</p> <p>Name: Auto Prince Location: Northway, Maghull, Liverpool, Merseyside, L31 2HA Classification: Car Dealers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality</p>	A8SE (S)	892	-	337506 402275
110	<p>Contemporary Trade Directory Entries</p> <p>Name: Maghull Service Station Location: Maghull Self Service, Northway, Maghull, Liverpool, L31 2HA Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A8SE (S)	892	-	337506 402275
110	<p>Contemporary Trade Directory Entries</p> <p>Name: Maghull Body Repairs Location: Unit 3 Northway, Maghull, Liverpool, Merseyside Classification: Car Body Repairs Status: Active Positional Accuracy: Manually positioned to the address or location</p>	A8SE (S)	899	-	337503 402267
110	<p>Contemporary Trade Directory Entries</p> <p>Name: Esso Location: Maghull Self Service, Northway, Maghull, Liverpool, L31 2HA Classification: Petrol Filling Stations Status: Active Positional Accuracy: Automatically positioned to the address</p>	A8SE (S)	925	-	337507 402241
110	<p>Contemporary Trade Directory Entries</p> <p>Name: Maghull Tyre & Exhaust Ltd Location: Northway, Maghull, Liverpool, Merseyside, L31 5LJ Classification: Exhaust & Shock Absorber Centres Status: Inactive Positional Accuracy: Manually positioned to the address or location</p>	A8SE (S)	934	-	337488 402230
111	<p>Contemporary Trade Directory Entries</p> <p>Name: Vehicle Solutions Location: Maghull Business Centre, 1, Liverpool Road North, Liverpool, L31 2HB Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A8SE (S)	934	-	337442 402225
111	<p>Contemporary Trade Directory Entries</p> <p>Name: Mr Printy Location: Maghull Business Centre, 1 Liverpool Road North, Liverpool, Merseyside, L31 2HB Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A8SE (S)	942	-	337445 402217
111	<p>Contemporary Trade Directory Entries</p> <p>Name: J B Kind Ltd Location: Maghull Business Centre, 1, Liverpool Road North, Liverpool, L31 2HB Classification: Door Manufacturers - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A8SE (S)	942	-	337445 402217
111	<p>Contemporary Trade Directory Entries</p> <p>Name: Special T Products Ltd Location: Maghull Business Centre, 1, Liverpool Road North, Liverpool, L31 2HB Classification: Veterinary Pharmacies Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A8SE (S)	942	-	337445 402217
111	<p>Contemporary Trade Directory Entries</p> <p>Name: Sefton Servicing Ltd Location: Maghull Business Centre, 1, Liverpool Road North, Liverpool, Merseyside, L31 2HB Classification: Asphalt & Coated Macadam Laying Contractors Status: Inactive Positional Accuracy: Manually positioned to the address or location</p>	A8SE (S)	942	-	337445 402217
111	<p>Contemporary Trade Directory Entries</p> <p>Name: The Property Search Group Location: Maghull Business Centre, 1, Liverpool Road North, Liverpool, L31 2HB Classification: Energy Efficient Products and Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A8SE (S)	942	-	337445 402217

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
111	Contemporary Trade Directory Entries Name: I B C Ltd Location: Maghull Business Centre, Liverpool Road North, Liverpool, L31 2HB Classification: Freight Forwarders Status: Inactive Positional Accuracy: Manually positioned to the address or location	A8SE (S)	943	-	337444 402216
111	Contemporary Trade Directory Entries Name: Ds Cleaning Solutions Location: Maghull Business Centre, 1 Liverpool Rd North, Liverpool, Merseyside, L31 2HB Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Manually positioned to the address or location	A8SE (S)	943	-	337444 402216
112	Contemporary Trade Directory Entries Name: Jack Massam & Sons Ltd Location: 22, Scarisbrick Close, Liverpool, L31 9PE Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SE (E)	950	-	338344 403017
113	Contemporary Trade Directory Entries Name: Sefton Location: 61, Eastway, Liverpool, L31 6BS Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SE (SE)	962	-	338109 402506
114	Contemporary Trade Directory Entries Name: Penny Packaging Location: 22, Blackhurst Road, Liverpool, L31 4JW Classification: Packaging & Wrapping Equipment & Supplies Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NW (N)	966	-	337082 404142
115	Contemporary Trade Directory Entries Name: Northway Car Centre Location: Northway, Maghull, Liverpool, L31 2HA Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Manually positioned to the address or location	A8SE (S)	973	-	337502 402192
116	Fuel Station Entries Name: Save Maghull Location: Liverpool Road Southport Road, Lydiate, Liverpool, Merseyside, L31 2LS Brand: Save Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Automatically positioned to the address	A13NW (NW)	55	-	337322 403262
116	Fuel Station Entries Name: Former Garage Location: Liverpool Road, Maghull, Liverpool, Merseyside, L25 Brand: Obsolete Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Automatically positioned to the address	A13NW (NW)	59	-	337322 403267
117	Fuel Station Entries Name: Park Motors Location: Liverpool Road, Lydiate, Liverpool, Merseyside, L31 2NA Brand: Unbranded Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Manually positioned to the road within the address or location	A13NE (N)	172	-	337401 403376
118	Fuel Station Entries Name: George Knowles (Furnishings) Ltd Location: 100, Liverpool Road North, Maghull, Liverpool, Merseyside, L31 2HN Brand: Unbranded Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Automatically positioned to the address	A8NE (S)	487	-	337421 402672
119	Fuel Station Entries Name: Shell Maghull Location: Northway, Maghull, Liverpool, Merseyside, L31 0BW Brand: SHELL Premises Type: Petrol Station Status: Open Positional Accuracy: Automatically positioned to the address	A14NW (E)	587	-	337990 403253

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
120	<p>Fuel Station Entries</p> <p>Name: Maghull Service Station Location: Northway , Maghull , Liverpool, Merseyside, L31 2HA Brand: Esso Premises Type: Petrol Station Status: Open Positional Accuracy: Automatically positioned to the address</p>	A8SE (S)	925	-	337507 402241

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
121	Areas of Adopted Green Belt Authority: Sefton Metropolitan Borough Council Plan Name: Sefton Local Plan Core Strategy Status: Adopted Plan Date: 20th April 2017	A12NE (W)	325	7	337025 403253
122	Nitrate Vulnerable Zones Name: Alt Nvz Description: Surface Water Source: Environment Agency, Head Office	A13SW (SW)	0	4	337371 403181

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Environment Agency - Head Office Sefton Metropolitan Borough Council - Environmental Health 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	June 2020 October 2017 October 2017 September 2017 September 2017	Annually Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - North West Region	April 2023	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	January 2023	Quarterly
Local Authority Integrated Pollution Prevention And Control 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 2015 January 2015 July 2015 October 2014	Variable Variable Variable Variable
Local Authority Pollution Prevention and Controls 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 2015 January 2015 July 2015 October 2014	Annually Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements 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 2015 January 2015 July 2015 October 2014	Variable Variable Variable Variable
Nearest Surface Water Feature Ordnance Survey	April 2023	
Pollution Incidents to Controlled Waters Environment Agency - North West Region	January 2000	
Prosecutions Relating to Authorised Processes Environment Agency - North West Region	July 2015	
Prosecutions Relating to Controlled Waters Environment Agency - North West Region	March 2013	
Registered Radioactive Substances Environment Agency - North West Region	June 2016	As notified
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	April 2012	
River Quality Chemistry Sampling Points Environment Agency - Head Office	April 2012	
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 2023 April 2023 April 2023	Quarterly Quarterly Quarterly


Agency & Hydrological	Version	Update Cycle
Water Abstractions Environment Agency - North West Region	April 2023	Quarterly
Water Industry Act Referrals Environment Agency - North West Region	October 2017	
Groundwater Vulnerability Map Environment Agency - Head Office	June 2018	As notified
Bedrock Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Superficial Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Source Protection Zones Environment Agency - Head Office	September 2022	Bi-Annually
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	February 2023	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	February 2023	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	February 2023	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	February 2023	Quarterly
Flood Defences Environment Agency - Head Office	August 2022	Quarterly
OS Water Network Lines Ordnance Survey	April 2023	Quarterly
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	As notified

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	March 2023	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	January 2023 January 2023 January 2023	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	January 2023 January 2023 January 2023	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 West Lancashire District Council - Environmental Health Department	February 2003 February 2003 February 2003 February 2003 February 2003 February 2003	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 West Lancashire District Council - Environmental Health Department	October 2018 October 2018 October 2018 October 2018 October 2018 October 2018	
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	March 2023	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 West Lancashire District Council Liverpool City Council Sefton Metropolitan Borough Council	April 2023 August 2015 February 2016 January 2016 May 2023	Variable Variable Variable Variable Variable
Planning Hazardous Substance Consents Knowsley Metropolitan Borough Council Lancashire County Council Sefton Metropolitan Borough Council West Lancashire District Council Liverpool City Council	August 2015 February 2016 February 2016 February 2016 January 2016	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 Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	November 2022	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	Annual Rolling Update
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	September 2022	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	September 2022	Annually

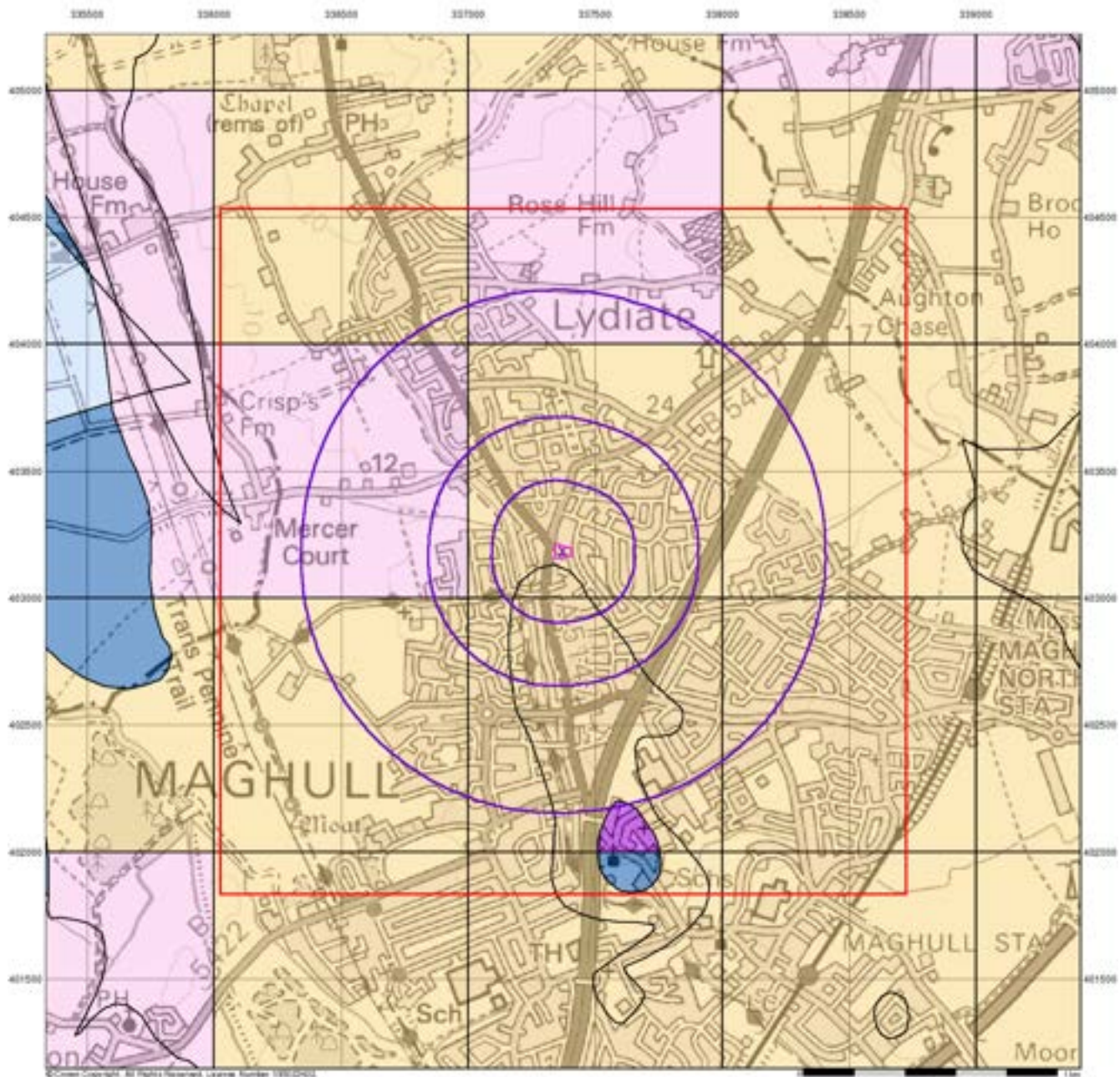
Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	April 2023	Quarterly
Fuel Station Entries Catalist Ltd - Experian	June 2023	Quarterly
Gas Pipelines National Grid	October 2021	Bi-Annually
Underground Electrical Cables National Grid	February 2023	Bi-Annually
Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	April 2023	Bi-Annually
Areas of Adopted Green Belt Knowsley Metropolitan Borough Council Liverpool City Council Sefton Metropolitan Borough Council West Lancashire District Council	July 2022 July 2022 July 2022 July 2022	Quarterly Quarterly Quarterly Quarterly
Areas of Unadopted Green Belt Knowsley Metropolitan Borough Council Liverpool City Council Sefton Metropolitan Borough Council West Lancashire District Council	July 2022 July 2022 July 2022 July 2022	Quarterly Quarterly Quarterly Quarterly
Areas of Outstanding Natural Beauty Natural England	April 2023	Bi-Annually
Environmentally Sensitive Areas Natural England	January 2017	
Forest Parks Forestry Commission	May 2023	Not Applicable
Local Nature Reserves Natural England	March 2023	Bi-Annually
Marine Nature Reserves Natural England	April 2023	Bi-Annually
National Nature Reserves Natural England	February 2023	Bi-Annually
National Parks Natural England	February 2018	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 March 2023	Bi-Annually
Ramsar Sites Natural England	March 2023	Bi-Annually
Sites of Special Scientific Interest Natural England	March 2023	Bi-Annually
Special Areas of Conservation Natural England	April 2023	Bi-Annually
Special Protection Areas Natural England	April 2023	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 <small>NATURAL ENVIRONMENT RESEARCH COUNCIL</small>
Centre for Ecology and Hydrology	 Centre for Ecology & Hydrology <small>NATURAL ENVIRONMENT RESEARCH COUNCIL</small>
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	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
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.gov.uk
6	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
7	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
8	West Lancashire District Council Westec House, 52 Derby Street, Ormskirk, Lancashire, L39 2DF	Telephone: 01695 577177 Fax: 01695 571079 Website: www.westlancsdc.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 Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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

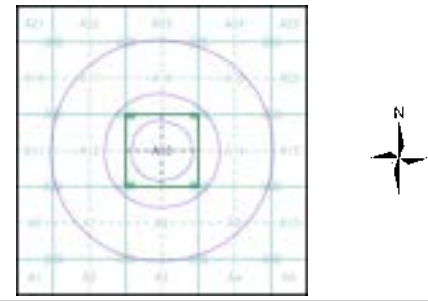


Hydrock 3E

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

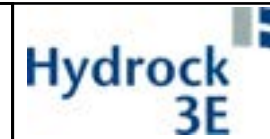
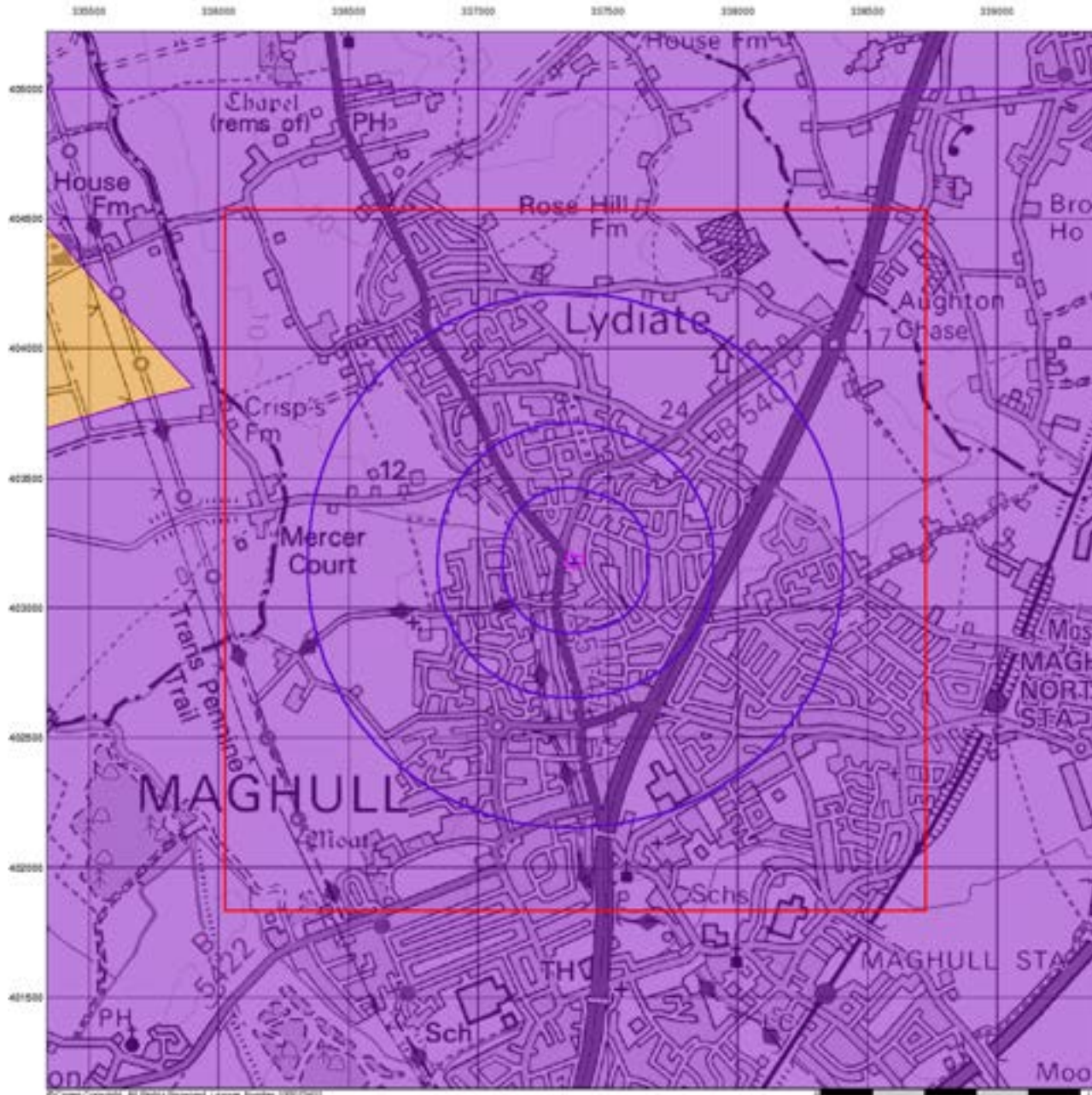
Order Number: 312750026_1_1
 Customer Ref: 29122 GNEW
 National Grid Reference: 337370, 403180
 Slice: A
 Site Area (Ha): 0.29
 Search Buffer (m): 1000

Site Details

Maghull Methodist Church, 180, Liverpool Road North, LIVERPOOL, L31 2HP

Landmark INFORMATION GROUP

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



Bedrock Aquifer Designation

General

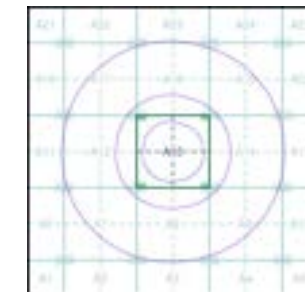
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

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

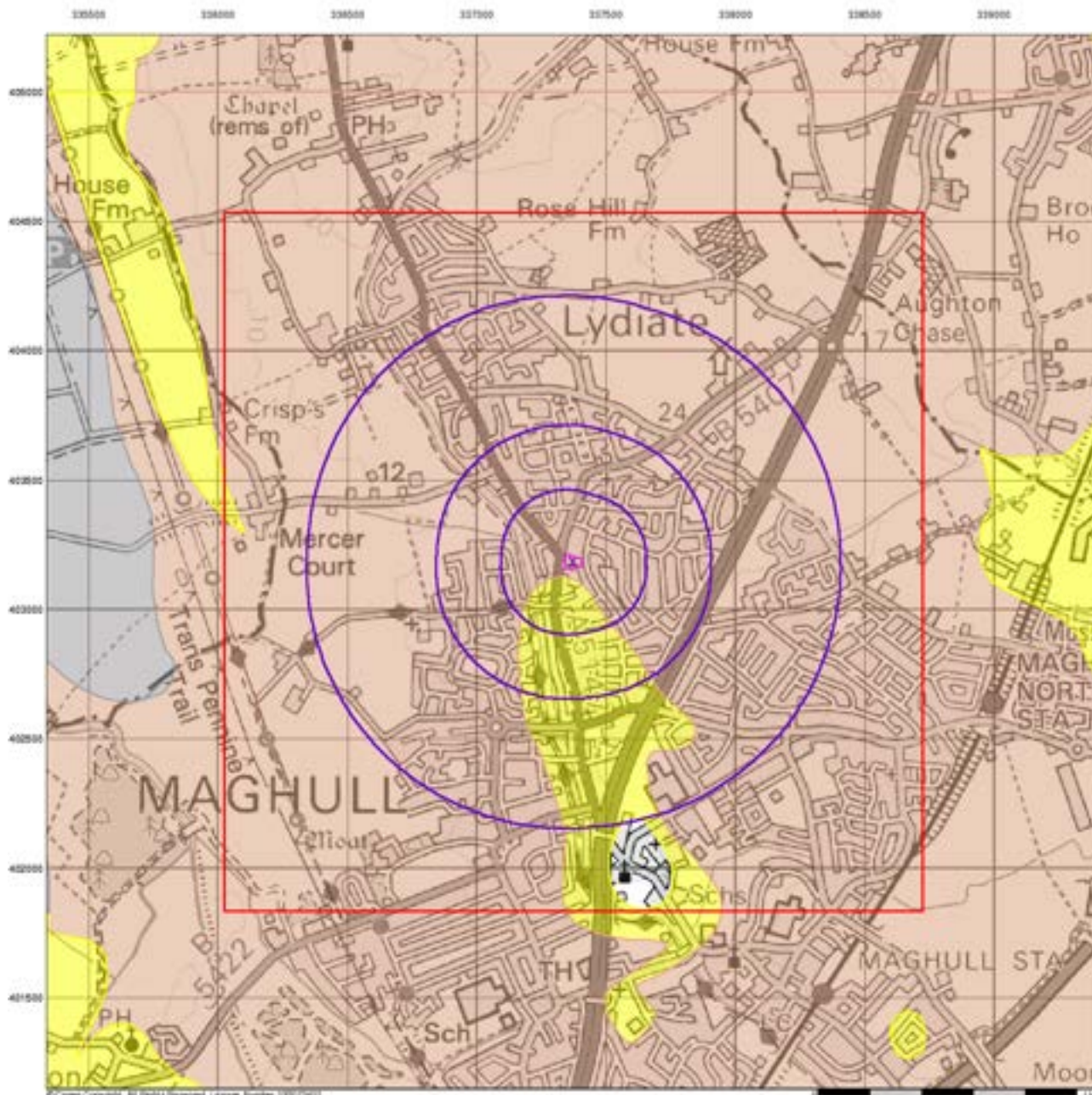
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 Customer Ref: 29122 GNEW
 National Grid Reference: 337370, 403180
 Slice: A
 Site Area (Ha): 0.29
 Search Buffer (m): 1000

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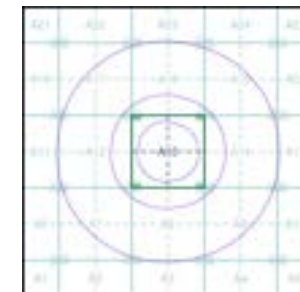


Hydrock 3E

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

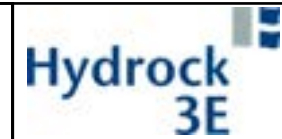
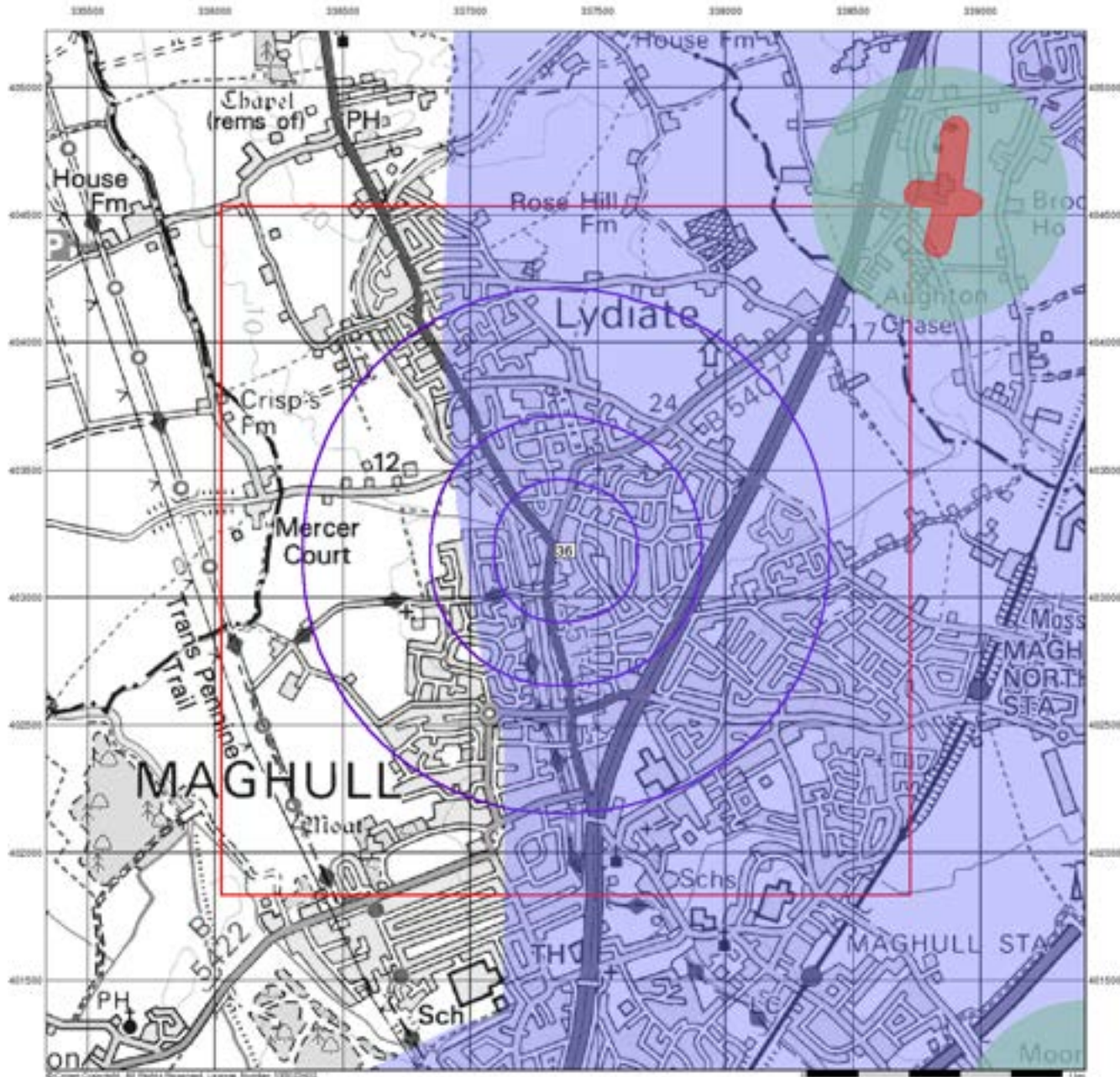
Order Number: 312750026_1_1
 Customer Ref: 29122 GNEW
 National Grid Reference: 337370, 403180
 Slice: A
 Site Area (Ha): 0.29
 Search Buffer (m): 1000

Site Details

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Landmark
 INFORMATION GROUP

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



Source Protection Zones

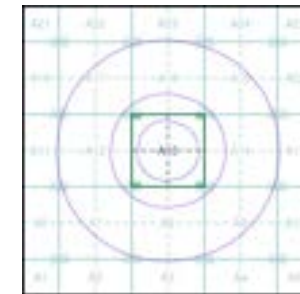
General

- 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

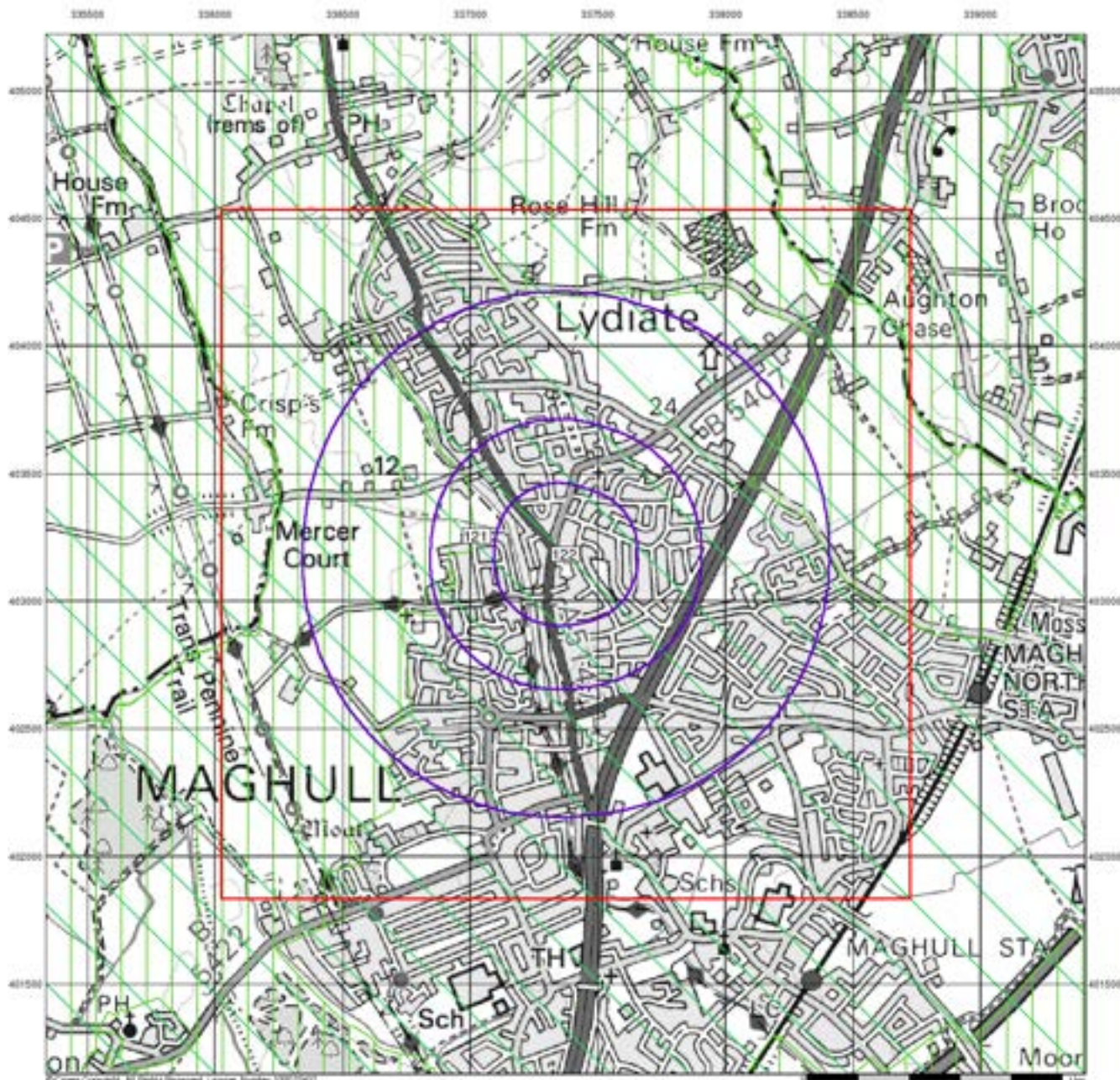
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 Customer Ref: 29122 GNEW
 National Grid Reference: 337370, 403180
 Slice: A
 Site Area (Ha): 0.29
 Search Buffer (m): 1000

Site Details

Maghull Methodist Church, 180, Liverpool Road North, LIVERPOOL, L31 2HP



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Sensitive Land Uses

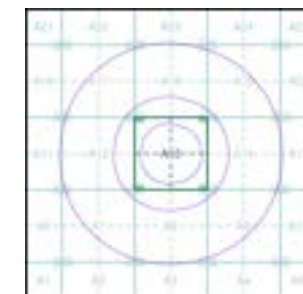
General

- 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

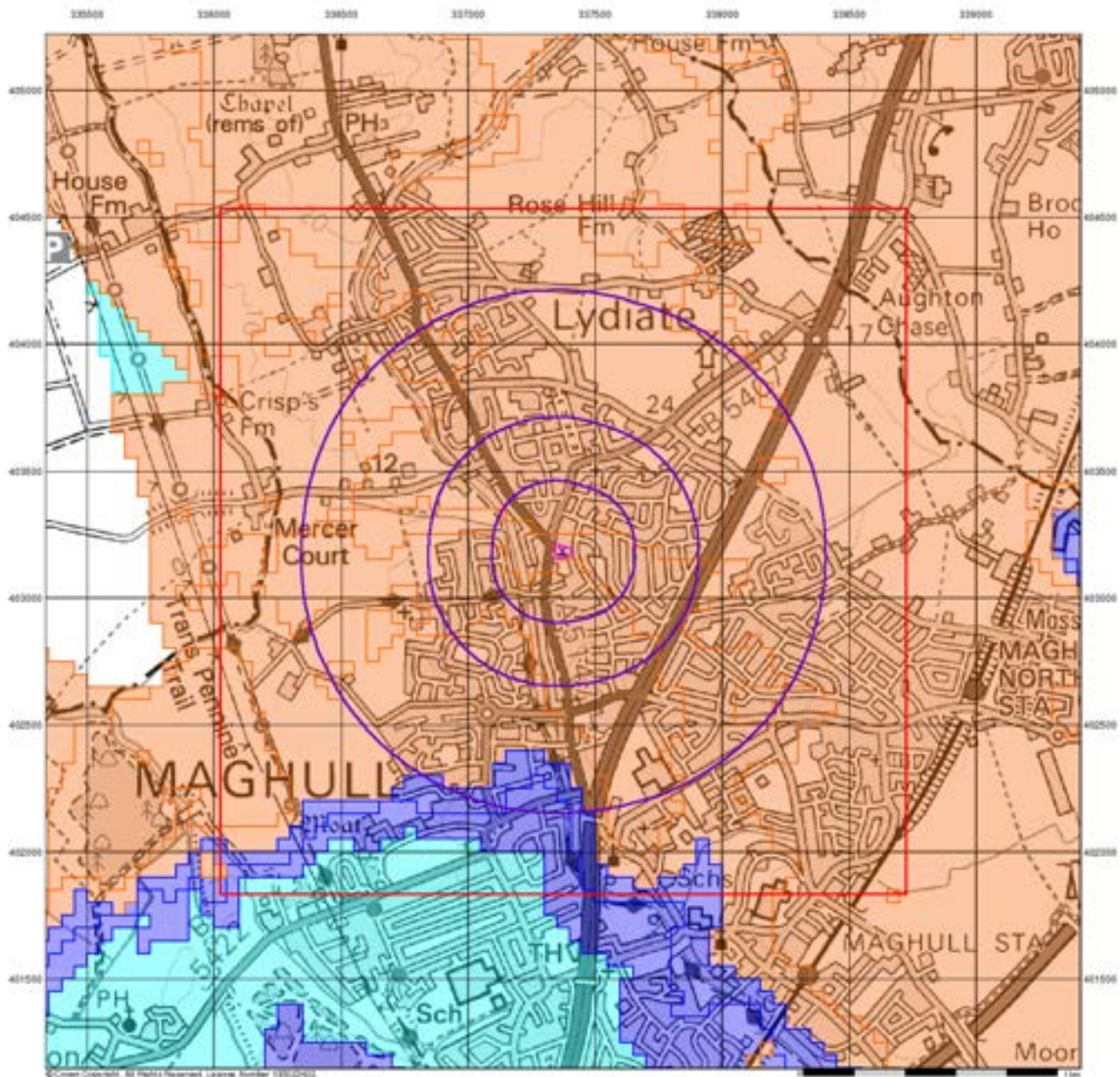
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 Customer Ref: 29122 GNEW
 National Grid Reference: 337370, 403180
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 Search Buffer (m): 1000

Site Details

Maghull Methodist Church, 180, Liverpool Road North, LIVERPOOL, L31 2HP



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



Hydrock 3E

BGS Flood GFS Data

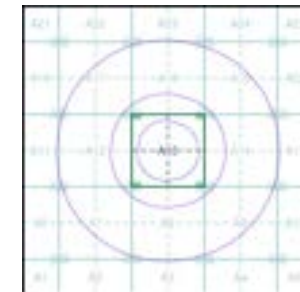
General

- 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

Order Number: 312750026_1_1
 Customer Ref: 29122 GNEW
 National Grid Reference: 337370, 403180
 Slice: A
 Site Area (Ha): 0.29
 Search Buffer (m): 1000

Site Details

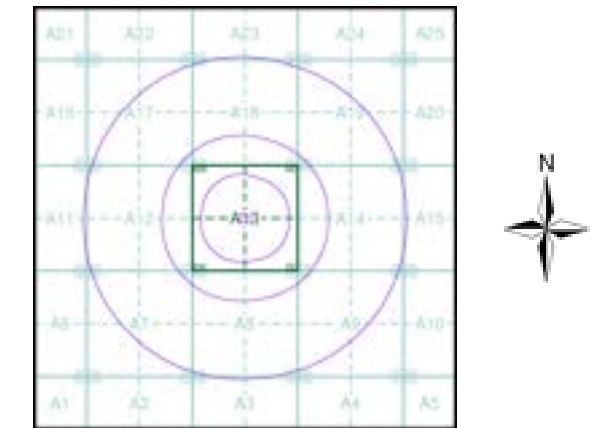
Maghull Methodist Church, 180, Liverpool Road North, LIVERPOOL, L31 2HP



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

- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Type at Location
- Agency and Hydrological**
- Contaminated Land Register Entry or Notice (Location)
 - Contaminated Land Register Entry or Notice
 - Discharge Consent
 - Enforcement or Prohibition Notice
 - Integrated Pollution Control
 - Integrated Pollution Prevention Control
 - Local Authority Integrated Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control Enforcement
 - Pollution Incident to Controlled Waters
 - Prosecution Relating to Authorised Processes
 - Prosecution Relating to Controlled Waters
 - Registered Radioactive Substance
 - River Network or Water Feature
 - River Quality Sampling Point
 - Substantiated Pollution Incident Register
 - Water Abstraction
 - Water Industry Act Referral
- Waste**
- BGS Recorded Landfill Site (Location)
 - BGS Recorded Landfill Site
 - EA Historic Landfill (Buffered Point)
 - EA Historic Landfill (Polygon)
 - Integrated Pollution Control Registered Waste Site
 - Licensed Waste Management Facility (Landfill Boundary)
 - Licensed Waste Management Facility (Location)
 - Local Authority Recorded Landfill Site (Location)
 - Local Authority Recorded Landfill Site
 - Registered Landfill Site
 - Registered Landfill Site (Location)
 - Registered Landfill Site (Point Buffered to 100m)
 - Registered Landfill Site (Point Buffered to 250m)
 - Registered Waste Transfer Site (Location)
 - Registered Waste Transfer Site
 - Registered Waste Treatment or Disposal Site (Location)
 - Registered Waste Treatment or Disposal Site
- Geological**
- BGS Recorded Mineral Site
- Industrial Land Use**
- Contemporary Trade Directory Entry
 - Fuel Station Entry
- Hazardous Substances**
- COMAH Site
 - Explosive Site
 - NIHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement

Site Sensitivity Map - Slice A



Order Details

Order Number: 312750026_1_1
 Customer Ref: 29122 GNEW
 National Grid Reference: 337370, 403180
 Slice: A
 Site Area (Ha): 0.29
 Search Buffer (m): 1000

Site Details

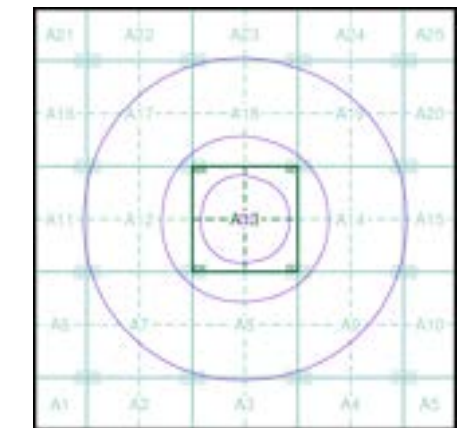
Maghull Methodist Church, 180, Liverpool Road North, LIVERPOOL, L31 2HP

Hydrock 3E

Industrial Land Use Map

- General**
- Specified Site
 - Slice
 - Specified Buffer(s)
 - Map ID
 - Bearing Reference Point
- Industrial Land Use**
- Contemporary Trade Directory Entry
 - Fuel Station Entry
 - Gas Pipeline
 - Underground Electrical Cables

Industrial Land Use Map - Slice A



Order Details

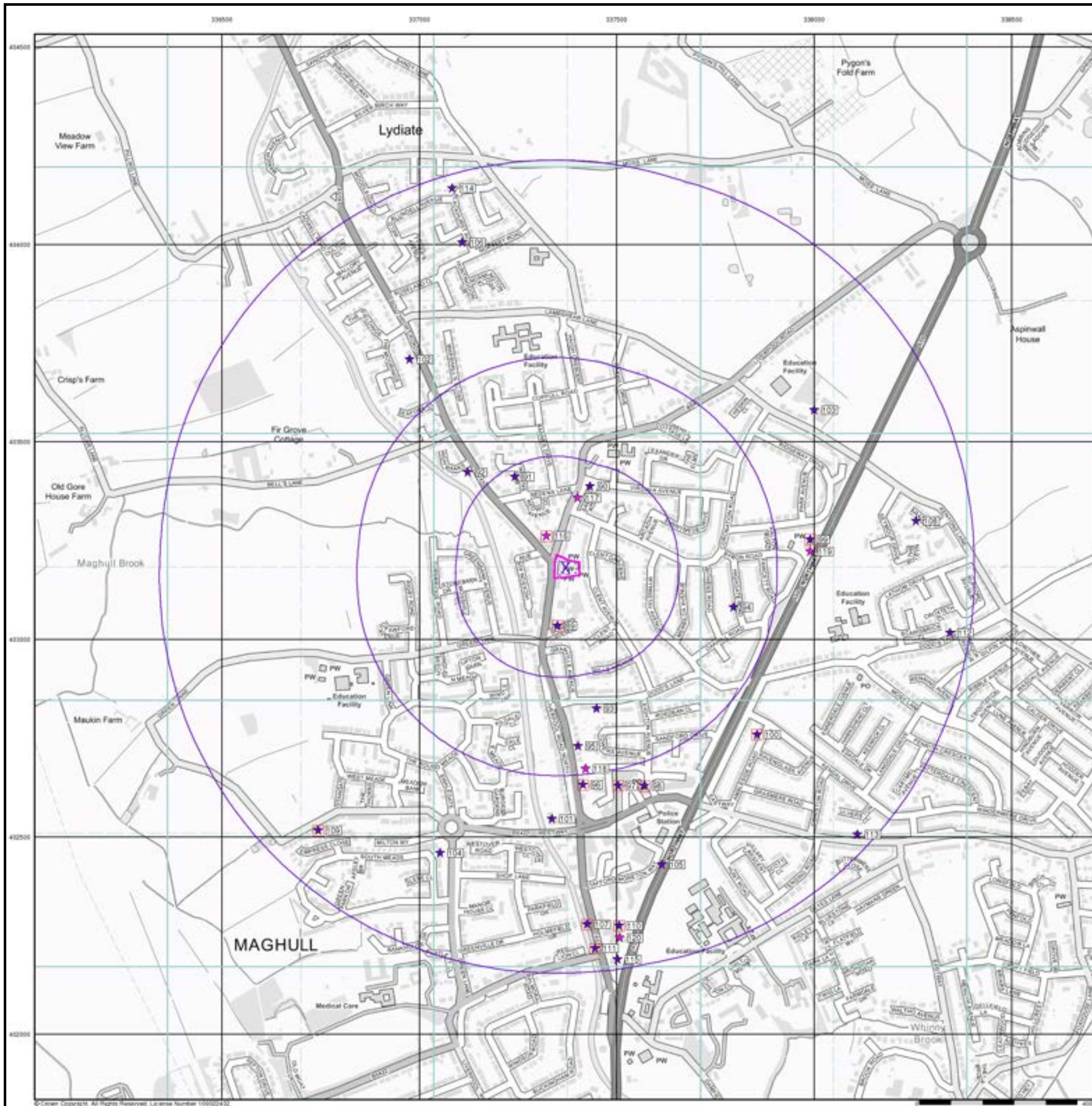
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 Customer Ref: 29122 GNEW
 National Grid Reference: 337370, 403180
 Slice: A
 Site Area (Ha): 0.29
 Search Buffer (m): 1000

Site Details

Maghull Methodist Church, 180, Liverpool Road North,
 LIVERPOOL, L31 2HP

Landmark
 INFORMATION GROUP

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








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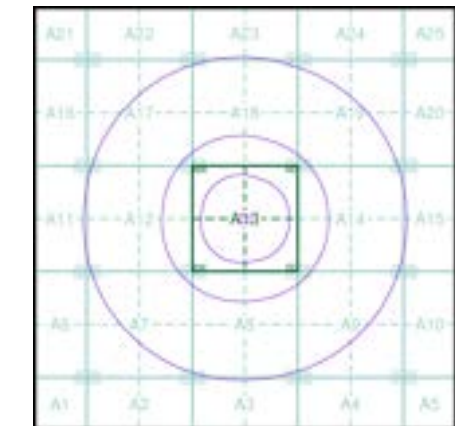
General

-  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: 312750026_1_1
 Customer Ref: 29122 GNEW
 National Grid Reference: 337370, 403180
 Slice: A
 Site Area (Ha): 0.29
 Search Buffer (m): 1000

Site Details

Maghull Methodist Church, 180, Liverpool Road North,
 LIVERPOOL, L31 2HP



General

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

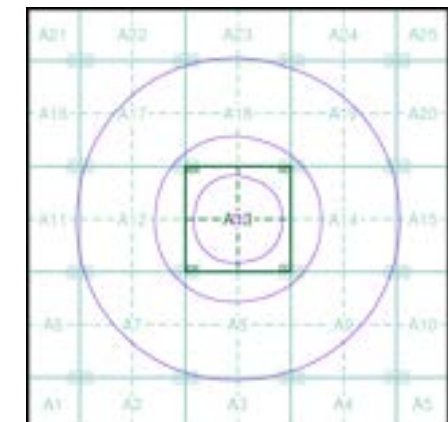
Agency and Hydrological (Boreholes)

- 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: 312750026_1_1
 Customer Ref: 29122 GNEW
 National Grid Reference: 337370, 403180
 Slice: A
 Site Area (Ha): 0.29
 Search Buffer (m): 1000

Site Details

Maghull Methodist Church, 180, Liverpool Road North,
 LIVERPOOL, L31 2HP



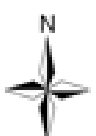
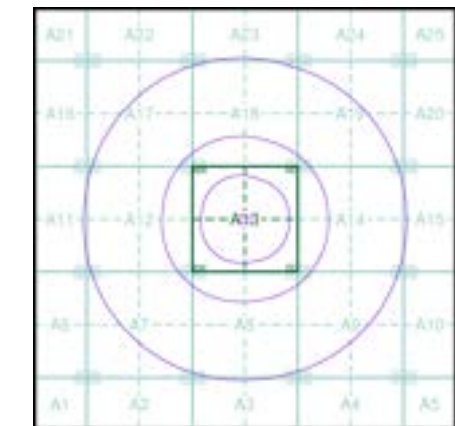
General

- 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 |

OS Water Network Map - Slice A

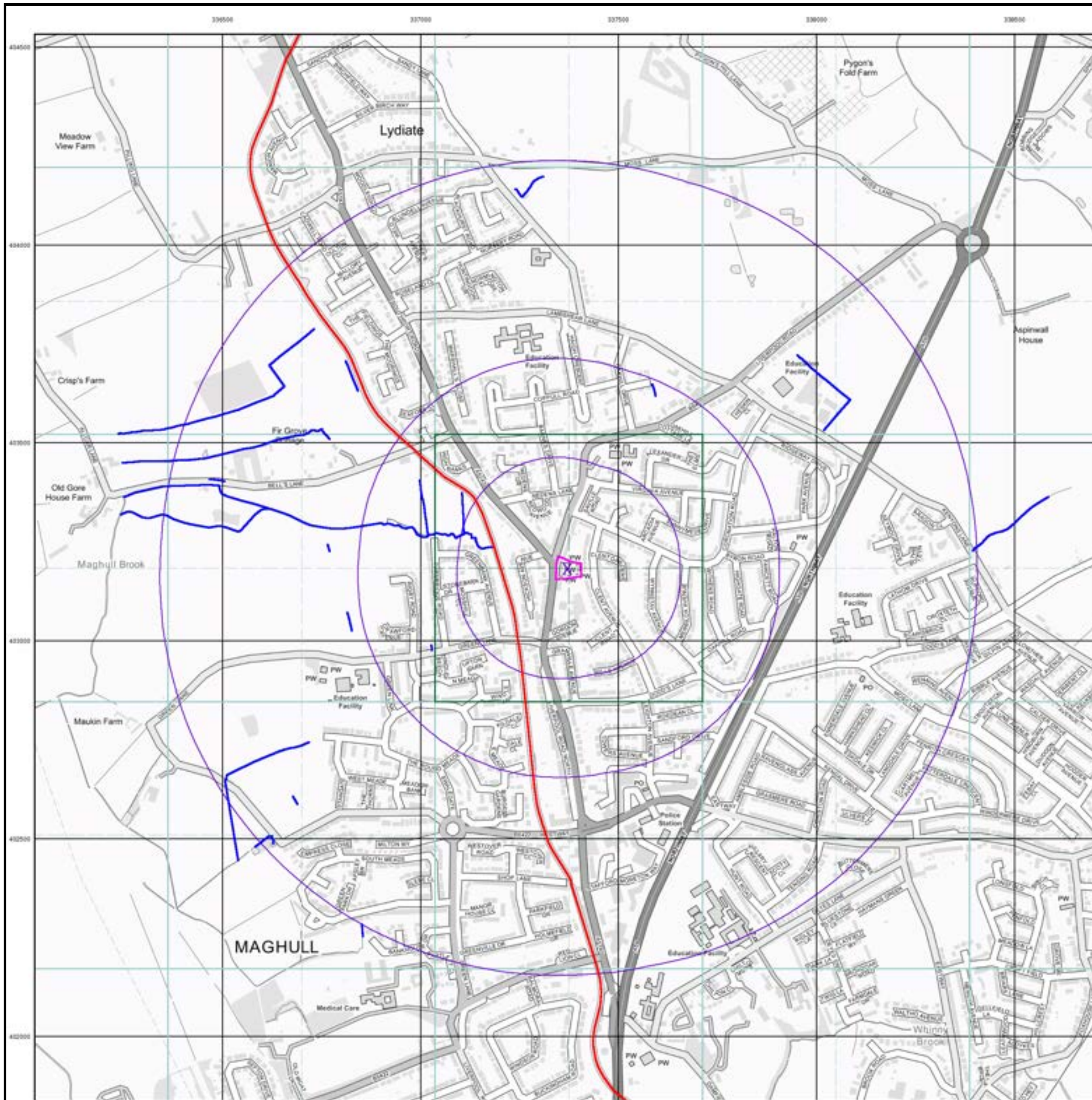


Order Details

Order Number: 312750026_1_1
 Customer Ref: 29122 GNEW
 National Grid Reference: 337370, 403180
 Slice: A
 Site Area (Ha): 0.29
 Search Buffer (m): 1000

Site Details

Maghull Methodist Church, 180, Liverpool Road North,
 LIVERPOOL, L31 2HP



Appendix D

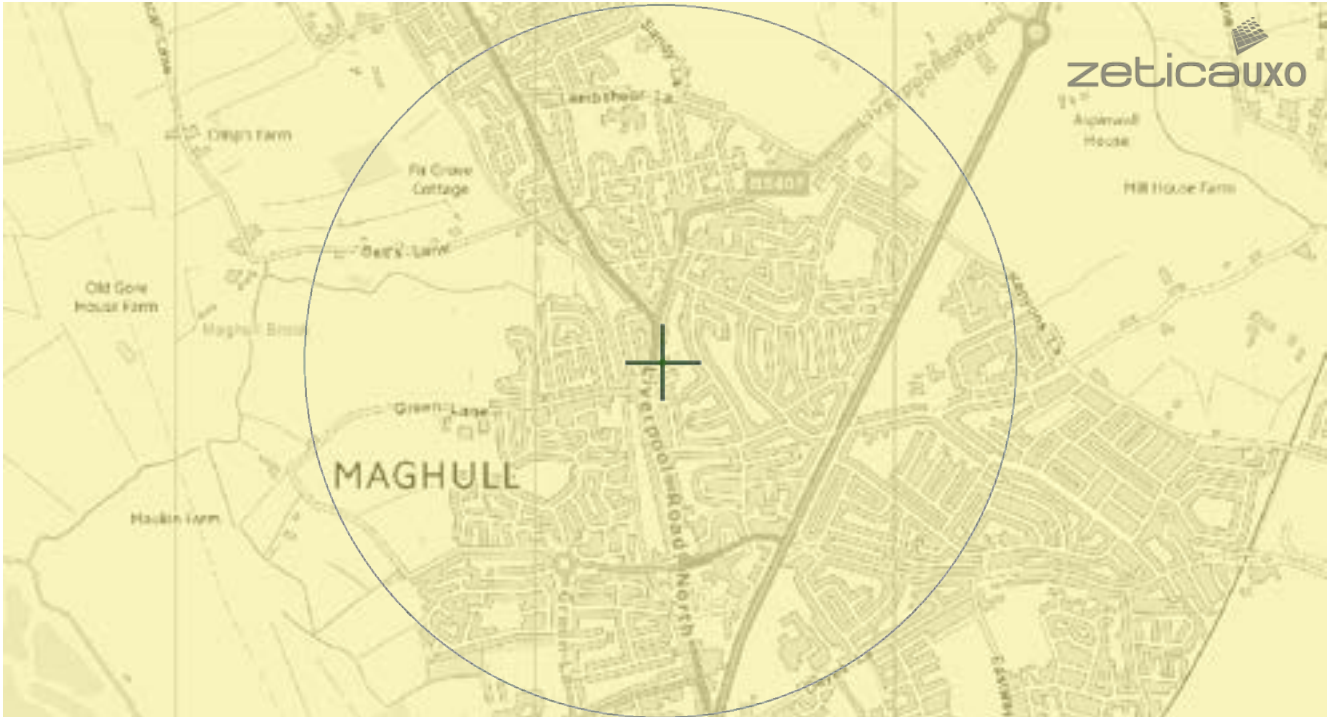
Unexploded Bomb Risk Map (Zetica UXO)

UNEXPLODED BOMB RISK MAP



SITE LOCATION

Location: L31 2HP,
Map Centre: 337360,403088



LEGEND

- High:** Areas indicated as having a bombing density of 50 bombs per 1000acre or higher.
- Moderate:** Areas indicated as having a bombing density of 15 to 49 bombs per 1000acre.
- Low:** Areas indicated as having 15 bombs per 1000acre or less.

- military
- industry
- UXO find
- transport
- dock
- Luftwaffe targets
- utilities
- Bombing decoy
- other

How to use your Unexploded Bomb (UXB) risk map?

The map indicates the potential for Unexploded Bombs (UXB) to be present as a result of World War Two (WWII) bombing.

You can incorporate the map into your preliminary risk assessment* for potential Unexploded Ordnance (UXO) for a site. Using this map, you can make an informed decision as to whether more in-depth detailed risk assessment* is necessary.

What do I do if my site is in a moderate or high risk area?

Generally, we recommend that a detailed UXO desk study and risk assessment is undertaken for sites in a moderate or high UXB risk area.

Similarly, if your site is near to a designated Luftwaffe target or bombing decoy then additional detailed research is recommended.

More often than not, this further detailed research will conclude that the potential for a significant UXO hazard to be present on your site is actually low.

Never plan site work or undertake a risk assessment using these maps alone. More detail is required, particularly where there may be a source of UXO from other military operations which are not reflected on these maps.

If my site is in a low risk area, do I need to do anything?

If both the map and other research confirms that there is a low potential for UXO to be present on your site then, subject to your own comfort and risk tolerance, works can proceed with no special precautions.

A low risk really means that there is no greater probability of encountering UXO than anywhere else in the UK.

If you are unsure whether other sources of UXO may be present, you can ask for one of our **pre-desk study assessments (PDSA)**

If I have any questions, who do I contact?

tel: **+44 (0) 1993 886682**

email: **uxo@zetica.com**

web: **www.zeticauxo.com**

The information in this UXB risk map is derived from a number of sources and should be used in conjunction with the accompanying notes on our website: (<https://zeticauxo.com/downloads-and-resources/risk-maps/>)

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*Preliminary and detailed UXO risk assessments are advocated as good practice by industry guidance such as CIRIA C681 'Unexploded Ordnance (UXO), a guide for the construction industry'.

Appendix E

Preliminary Geotechnical Risk Register

Geotechnical Hazard Identification – Desk Study Stage

Potential geotechnical hazards have been assessed in accordance with the general requirements of ICE/DETR Document ‘Managing Geotechnical Risk’ and the HE documents CS 641 and CD 622. The following table sets out the identified geotechnical risks and hazards which are associated with the proposed development and establish the approach which is to be taken to manage the risks including the geotechnical input and analysis.

Table E.1 is a preliminary assessment of possible geotechnical hazards at the site at Desk Study stage. This information is used to assist with site investigation design.

Table E.1: Possible geotechnical hazards

Hazard	Comment	Hazard status based on desk study	
		Could be present and / or affect site (i.e. Plausible)	Unlikely to be present and/or affect site
Uncontrolled Made Ground (variable strength and compressibility).	Made Ground is likely to exist across the entire site and be heterogeneous.	✓	-
Soft / loose compressible ground (low strength and high settlement potential).	Potential within Made Ground.	✓	-
Shrink swell of the clay fraction of soils under the influence of vegetation.	Mature trees on site and clay/silts within the potentially variable Alluvium if found to be present in the north and east section of the site.	✓	-
Variable lateral and vertical changes in ground conditions.	Potential within Made Ground and the superficial deposits.	✓	-
High sulphates present in the soils.	Associated within the Made Ground.	✓	-
Adverse chemical ground conditions, (e.g. expansive slag).	No significant risk.	-	✓
Obstructions.	Associated with existing foundations and culverted Maghull Brook in the north and eastern sections of the site.	✓	-
Existing below ground structures to remain (foundations).	No significant risk	-	✓
Shallow groundwater.	Potential for perched groundwater on cohesive Made Ground	✓	-
Changing groundwater conditions.	Seasonal groundwater variations may occur.	✓	-
Risk from erosion.	No significant risk.	-	✓

Hazard	Comment	Hazard status based on desk study	
		Could be present and / or affect site (i.e. Plausible)	Unlikely to be present and/or affect site
Risk from flooding.	No significant risk.		✓
Running sands and / or loose Made Ground, leading to difficulty with excavation and collapse of side walls.	Uncontrolled Made Ground / infill and Shirdley Hill Sand Formation underlying the site, which has the potential for instability and excavation collapse.	✓	-
Slope stability issues – general slopes.	Unlikely to pose a risk.	-	✓
Retaining wall stability issues.	No significant risk.	-	✓
Earthworks – settlement (due to placement of fill on soft / loose ground).	Unlikely to pose a risk.	-	✓
Earthworks – poor bearing capacity of new fill.	Significant earthworks are not anticipated.	-	✓
Earthworks – unsuitability of site won material to be reused as fill.	Significant earthworks are not anticipated.	-	✓
Solution features in Chalk.	No risk posed to site.	-	✓
Cavities in the Superficial Deposits due to solution features.	No risk posed to site.	-	✓
Dissolution (associated with “wet rock head”).	No risk posed to site.	-	✓
Brine extraction.	No risk posed to site.	-	✓
Mining.	No risks from coal mining.	-	✓
Cambered ground with gulls possibly present.	No risk posed to site.	-	✓
Relict Slip Surfaces.	No risk posed to site.	-	✓
Solifluction.	No risk posed to site.	-	✓
Problematic soils (silts and rewetting etc.).	Potentially an issue within the potentially variable Alluvium deposits if found to be present in the north and eastern sections of the site.	✓	-
Unexploded ordnance.	A non-specialist UXO assessment indicates a low risk of encountering UXO.	-	✓