

WHALLEY ROAD, RAMSBOTTOM

PHASE 1: PRELIMINARY RISK ASSESSMENT

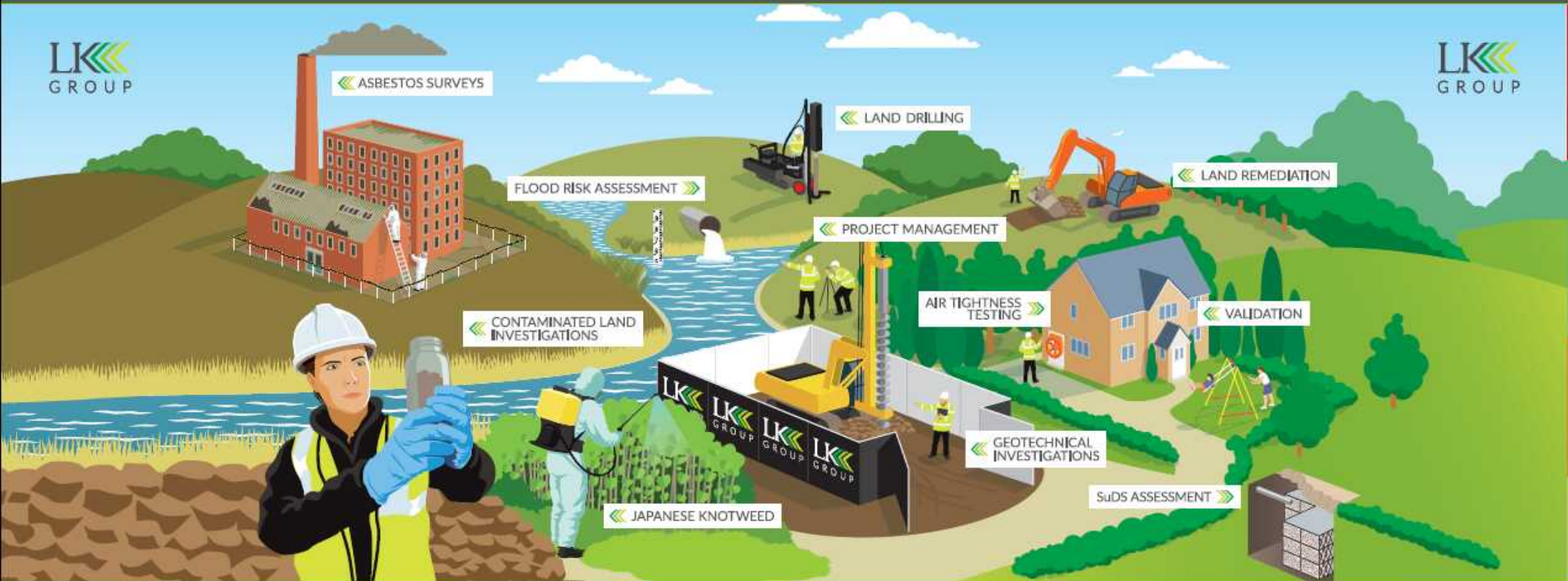
Job Number: LKC 21 1680
Date: November 2021
Client: Steven Mort



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LK Consult			
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1 Introduction

LK Consult Ltd (LKC) has been commissioned to carry out a Phase 1 Preliminary Risk Assessment (PRA) for Whalley Road.

In accordance with current guidance (including LCRM¹ and the National Planning Policy Framework (NPPF)²), the PRA will include a site reconnaissance, site history, geology, hydrogeology, hydrology, mineral search, and a landfill search. Information gathered from the desk study and site reconnaissance will be used to develop a contamination conceptual model for the site.

In addition, the information gathered will be used to identify potential geotechnical constraints associated with the redevelopment of the site.

Based on the findings of this report, an appropriate site investigation can be derived, if required.

1.1 Regulatory Liaison

A pre-application enquiry was made to Bury Council by Peel Design Partnership, who offered the following advice with regards to contaminated land:

“Contamination As the site is identified on historic maps as a former refuse tip, a full contaminated land report would need to be submitted with any application.”

LKC contacted the Contaminated Land Officer at Bury Council regarding the onsite refuse tip, who gave the following response:

“I’ve had a look at our records, and we do not hold any additional information about the former refuse tip. The only evidence we have for it is that it appears on the 1963 historical map.”

1.2 Site Details

Site details are provided in Table 1-1. Figure 1 shows the site location and boundary. Figure 2 shows the proposed development plan.

Site Location	Western side of Whalley road between Love Lane and the Duckworth Arms. Centred at approximate National Grid Reference 380010E 418180N.
Approximate Area	100m ² .
Topography	180 metres Above Ordnance Datum (AOD). Site is approximately level. Gentle slope down to north and west.
Current Site Use	Tarmacadam and compacted gravel area currently used for residential parking and domestic garages.
Purpose of Report	Pre-planning.
Proposed Development	Residential housing with gardens / soft landscaping. - Two semi-detached houses with soft landscaping in back gardens, with hardstood driveway, associated car parking and minimal soft landscaping.

Table 1-1: Summary of site details

¹ Land Contamination Risk Management (LCRM) <https://www.gov.uk/government/publications/land-contamination-risk-management-lcrm>

² “National Planning Policy Framework.” The Ministry of Housing, Communities and Local Government. Published March 2012, Updated July 2021.

2 Historical Review

In compiling the site history, LKC consulted Envirocheck historical mapping (Appendix A) and other public domain maps / aerial photography.

Table 2-1 summarises features on site.

Table 2-2 summarises potentially contaminative land uses within approximately 50m and potentially infilled features within approximate 250m.

Site Features	Location on Site	Dates Present		Comments
		From	To	
Undeveloped land	Whole site	1850	1912	Site is located in southeast corner of large field.
Golf Course	Whole site	1929	1956	Site is in southeast corner of a large golf course extending to the west and north. No longer annotated by 1963 mapping.
2no. Refuse tips	W	1963	1973	No longer annotated from 1976 mapping.
2no. Unreferenced structures	S	1983	1993	No longer present from 1993 mapping.
Domestic garages	S	2003	2021	

Table 2-1: Summary of site features. Dates based on available historical map editions.

Surrounding Area Features	Distance (m)	Direction	Dates Present		Comments
			From	To	
Refuse tip	0	W	1963	1973	Larger refuse tip, which is also present on site extends westward, increasing in size in 1973 mapping. No longer present in 1977 mapping.
Issue (GW)	42	S	1963	2021	
Surface water course	43	S	1963	2021	Flowing south.
Sink (GW)	66	S	1963	2021	
Issue (GW)	86	S	1963	2021	
Surface water course	87	SW	1893	2021	Flowing west.
Surface water course	115	NE	1999	2021	
Sink (GW)	115	NE	1999	2021	
Embankments	157	W	1983	2021	
Embankments	213	SW	1983	2021	
Embankments	214	W	1983	2021	
Quarry	216	SW	1851	1973	No longer annotated from 1983 mapping. Likely infilled.
Pond	235	SW	1963	1973	No longer annotated from 1983 mapping. Likely infilled.
Pond	241	SE	1963	1987	No longer present from 1992 mapping. Likely infilled.
Sinks (GW)	245	SW	1963	2021	

Table 2-2: Summary of potentially contaminative features within 50m and potentially infilled features with 250m. Dates are based on available historical map editions.

Plate 2-1 shows the features noted in Table 2-1 and 2-2.



Plate 2-1: Historical features.

Plate 2-2 shows the 1963 historical mapping (light grey) and 1973 mapping (black) and the extent of the former refuse tip present on site.

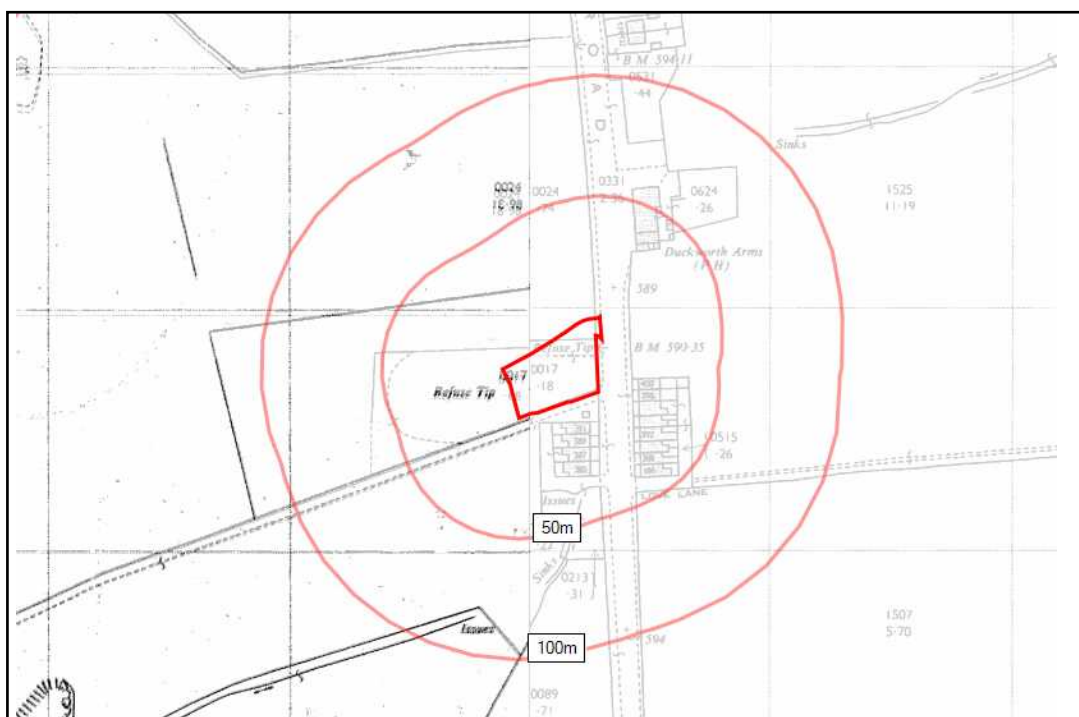


Plate 2-2: Excerpt from 1963 mapping, overlaid with 1973 historical mapping.

3 Environmental Setting

A summary of environmental settings is presented in Table 3-1, based on a review of available environmental data.

Categories (data sources)		Details
Geology ^{1,2}	Artificial	- No BGS recorded artificial.
	Superficial	- Till (devenisian).
	Bedrock	- Marsden Formation (mudstone, siltstone).
	BGS Logs (<50m)	- None.
Hydro-geology ¹	Aquifer Designation	- Superficial - Bedrock
	Source Protection Zone (SPZ)	- Secondary Undifferentiated Aquifer. - Secondary A Aquifer.
	Groundwater Abstractions (100m)	- Site not within an SPZ.
		- None.
Hydrology ¹	Surface Water Courses (100m)	- Un-named water course, 38m S.
	Flooding risk	- Flood Zone 1.
	Surface Water Abstractions (100m)	- None.
	Discharge Consents	- None.
	Pollution Incidents	- None.
Minerals & Mining ^{1,3}	Coal Mining	- Within a Coal Reporting Area. - Not within a Development High Risk Area.
	Surface Mineral Extractions (250m)	- None.
	Cheshire Brine Compensation District	- Not within Compensation District. - Not within Consultation Area.
	Non-Coal Mining Area	- Within an area of conclusive metalliferous mining.
Ground Stability ¹	Collapsible Ground	- Very low hazard.
	Compressible Ground	- No hazard.
	Ground Dissolution	- No hazard.
	Landslide	- Very low hazard.
	Running Sand	- Very low hazard.
	Shrinking / Swelling Clay	- Very low hazard.

Table 3-1: Summary of the environmental setting.

Notes: Distance in brackets is the distance from site that features are included. Where no distance given, features relate to on site only.

Data Sources:

1 Envirocheck Report (Appendix A & B).

2 BGS GeoIndex <http://mapapps2.bgs.ac.uk/geoindex/home.html>

3 The Coal Authority Web Mapping Services (WMS) / Interactive Map Viewer <http://coal.decc.gov.uk/en/coal/cms/publications/data/map/map.aspx>

Categories (data sources)		Details
Landfill Sites (250m) ¹	Known / Registered	- None.
	Potentially Infilled Land (non-water and water), based on Envirocheck Report	- 1no. features: 239m SW.
	Potentially infilled sites, based on LKC historical review	- Onsite: 2no. features: See Table 2-1. - Offsite: 4no. features: See Table 2-2.
Radon Potential ¹		- <1% of homes above Action Level. No protective measures are necessary in the construction of new dwellings or extensions.
Designated Sites (50m) ¹		- Adopted Green Belt, on site.
Contemporary Trade Directory (50m) ¹		- None.
Fuel Station Entries (50m) ¹		- None.
Unexploded Ordnance Risk (UXO)	Zetica Risk Map ⁴	- Low.

Table 3-1 (continued): Summary of the environmental setting.

Notes: Distance in brackets is the distance from site that features are included. Where no distance given, features relate to on site only.

Data Sources:

1 Envirocheck Report (Appendix A & B).

4 Zetica UXO Unexploded Bomb Risk Map (Appendix C).

4 Site Reconnaissance

A site reconnaissance was carried out on 11 November 2021

Relevant features identified on site are summarised below:

- Rough ground consisting of tarmacadam and gravel across most of site. Tarmacadam in good condition, although degraded in some areas. Bricks noted in gravel. No spills or stains noted on hardstanding.
- 6No. small domestic garages on southern site boundary, potential for asbestos due to age.
- Grass with some weeds around site boundary and next to garages, grown through gravel.
- Access road running along northern boundary of site.
- Most of site relatively flat. Garages slightly raised, with gentle slope down to northwest.
- No evidence of contamination identified.

The surrounding area comprises of residential properties to the south and east, a chicken coop to the west, Whalley Road to the east leading to a public house (Duckworth Arms) to the northwest. Beyond, the site is surrounded by fields to the north and east, further residential properties to the south and a motorway to the far west.

Relevant photographs are provided in Plate 4-1.



Plate 4-1: Site photographs.

5 Preliminary Conceptual Model

5.1 Introduction

The aim of the conceptual model is to provide a preliminary assessment of the likelihood of a pollutant linkage for each potential combination of contaminant, pathway and receptor. A conceptual model can be used to make an informed decision on the contamination risks associated with the site and whether further site investigation work is required.

The Sections below are therefore divided into potential contaminant, potential pathway and potential receptor as described in LCRM³, on the premise that, if there is no pollutant linkage, then there will be no risk to the receptor. The final Section provides an assessment of the potential pollutant linkages that may still be present on the site if redevelopment were to occur.

5.2 Potential Contaminants

Potential viable contamination sources are detailed in Table 5-1. These are split into onsite sources, offsite sources and underlying geology.

Potential Source	Contaminants
On Site	
Golf course	- Herbicides. Unlikely to be significant contamination source due to age.
Made Ground below the site (historical refuse tips, demolished buildings).	- Demolition rubble, ash and clinker: Asbestos, heavy metals, sulphates, PAHs ⁴ . - Ash and clinker (e.g. from hearths and boilers, often historically used for site raising / levelling): Heavy metals, sulphates and PAHs. - Other unknown inorganic / organic contaminants (dependant on fill material source). - If significant depth of organic / putrescible material: Hazardous gas (principally carbon dioxide and methane).
Domestic garages	- Anti-freeze, lubricating oils, brake fluids, detergent constituents, petroleum spirit, petrol additives, diesel. - If contamination present, likely to be localised.
Landfill (refuse tips)	- Landfill gas: hydrogen, hydrogen sulphide, organosulphur compounds, aliphatic hydrocarbons and halogenated hydrocarbons. - Landfill leachate: Ammonia, iron and other metal ions. ⁵
Surrounding Area	
Offsite potentially infilled features within 250m (adjacent refuse tip)	Contaminants relating to refuse tip/landfill: - If significant depth of organic / putrescible material: Hazardous gas (principally carbon dioxide and methane). - Landfill gas: hydrogen, hydrogen sulphide, organosulphur compounds, aliphatic hydrocarbons and halogenated hydrocarbons. - Landfill leachate: Ammonia, iron and other metal ions. ⁶

Table 5-1: Potential contamination sources.

³ Land Contamination Risk Management (LCRM) <https://www.gov.uk/government/publications/land-contamination-risk-management-lcrm>

⁴ Defra (2002). "Potential Contaminants for the Assessment of Land". R&D Publication CLR 8.

⁵ DoE Industry Profile (1996). Waste Recycling, treatment and disposal sites – Landfills and Other Waste Treatment or Waste Disposal Sites.

⁶ DoE Industry Profile (1996). Waste Recycling, treatment and disposal sites – Landfills and Other Waste Treatment or Waste Disposal Sites.

5.3 Potential Receptors

Potential receptors are detailed in Table 5-2.

Receptors	
Human Health	- Future site users (including residents, visitors and site workers). - Offsite land users.
Controlled Waters	- Un-named water course (issue), 38m S. - Secondary A Bedrock Aquifer and Secondary Undifferentiated Superficial Aquifer.
Buildings and structures.	
Potable water pipes.	
Flora within future gardens and landscaping.	

Table 5-2: Potential receptors.

5.4 Potential Pathways

Potential pathways are detailed in Table 5-3.

Pathways		
Soil	Human Health ⁷ (residential land use: houses with private gardens)	- Ingestion of soil. - Ingestion of soil-derived indoor dust. - Ingestion of contaminated vegetables. - Ingestion of soil attached to vegetables. - Dermal contact with soil. - Dermal contact with soil-derived indoor dust. - Inhalation of soil-derived outdoor dust. - Inhalation of soil-derived indoor dust. - Inhalation of vapours outside. - Inhalation of vapours inside.
		- Windblown dust and fibres to adjacent receptors.
		- Direct contact with receptors (building foundations, services).
		- Root uptake.
Water		- Surface run-off over impermeable surface.
		- Infiltration into the ground, through potentially contaminated material (contamination possibly going into solution). - Site is surfaced in mixed hardstood tarmac and gravel; therefore, infiltration is likely to be mixed.
Water and Gas		- Migration through potentially permeable strata and preferential pathways. - Superficial (Till) likely to be low permeability. - Bedrock (mudstone, siltstone) likely to be low permeability. - Preferential pathways: services.
Gas		- Migration into buildings (e.g. via services) and accumulation of gases in confined spaces (potentially causing explosion if methane is present).

Table 5-3: Potential pathways.

5.5 Preliminary Contamination Conceptual Model

The Preliminary Contamination Conceptual Model is illustrated in Table 5-4 and has identified seven generic potential pollutant linkages.

Each linkage is described along with an assessment of the risk based upon guidance on probabilities and consequences outlined in CIRIA C552⁸.

⁷ EA (2008). "Updated Technical Background to the CLEA Model". Science Report – SC050021/SR3.

⁸ CIRIA (2001). "Contaminated Land Risk Assessment: A Guide to Good Practice". C552.

In order to assess the potential risk for each pollutant linkage, an assessment of the magnitude of the potential consequence (severity) of the risk occurring and the magnitude of the probability (likelihood) of the risk occurring has been considered and classified. This is based on the guidance provided in CIRIA C552 and further details including a risk matrix is provided in Appendix D.

Where LKC identified a low to very low risk, targeted or low density intrusive investigation work, a watching brief (during construction work) or no investigation work will be recommended. This will be dependent on the nature of the site and the proposed development.

Where the risk falls into the moderate/low risk, LKC will undertake an assessment to establish what category the pollutant linkage will fall into (i.e. moderate or low risk will be chosen).

Where LKC identifies a moderate or higher risk, intrusive investigation work or precautionary remedial measures will be recommended.

It should be noted that there may be risk from short term exposure from contaminated soil to site workers. The Preliminary Contamination Conceptual Model deals with long term exposure to key receptors. Acute risks can be easily mitigated by good environmental management of the site during site works. Standard health and safety precautions (as per HSE guidance⁹) should be adopted by all workers involved with site enabling and construction works. Therefore, this receptor is not considered in the contamination conceptual model.

⁹ HSE (1991). "Protection of Workers and the General Public During Development of Contaminated Land". London HMSO.

PL	Pathway	Receptor	Contaminants of Concern (CoC)	Probability	Consequence	Risk	Recommendations
1	- Dermal contact. - Inhalation of soil, fibres and dust. - Ingestion of soils, dust. - Windblown dust.	- Future site users. - Offsite receptors.	- ACM. - Heavy metals. - PAHs. - Other inorganic and organic contaminants including ammonia.	Likely (given site history, site conditions and proposed end use)	Medium	Moderate	Intrusive investigation required. Soil analysis of CoC, subject to ground conditions encountered.
			- Petroleum hydrocarbons (TPHCWG).	Low Likelihood (given site history, potential pathway through gravel and proposed end use)	Medium	Moderate / Low (low assumed as significant source not anticipated)	Low density intrusive investigation required. Soil analysis of CoC, subject to ground conditions encountered.
2	- Inhalation of vapours. - Migration via permeable strata and preferential pathways.	- Future site users. - Offsite receptors.	- Volatile contaminants (SVOC, VOCs).	Likely (given site history, site conditions and proposed end use)	Medium	Moderate	Intrusive investigation required, to include PID testing. Soil analysis of CoC, subject to ground conditions encountered and PID testing. VOC/ SVOC monitoring may be required, dependent on soil testing results.
3	- Inhalation of gas. - Migration via permeable strata and preferential pathways. - Explosion in confined spaces. - Exposure to radon.	- Future site users. - Buildings. - Offsite land users.	- Ground / hazardous gas (carbon dioxide, methane, hydrogen sulphide-on-site and adjacent refuse tip).	Likely (given viable gas source and viable pathway)	Severe	High	Gas monitoring required.
			- Radon	Unlikely (as <1% of homes above action level)	Medium	Low	(<1%) No protective measures are necessary in the construction of new dwellings or extensions.
4	- Surface run-off. - Migration via permeable strata and preferential pathways. - Perched waters migration.	- Groundwater (Secondary A Bedrock and Secondary Undifferentiated Superficial Aquifers.). - Surface water (unnamed water course).	- Mobile contaminants such as metals, PAHs, hydrocarbons, volatile compounds from leachates.	Low Likelihood (mobile contamination anticipated, however limited pathway)	Medium	Moderate / Low (moderate assumed until ground conditions confirmed)	Intrusive investigation required. Groundwater sampling. Analysis for CoC.
5	- Sulphate attack on concrete.	- Building structure.	- Sulphate.	Likely (given site history, site conditions, geology and direct contact / pathway)	Mild	Moderate / Low (moderate assumed due to on site refuse tip)	Intrusive investigation required. Soil analysis of CoC, subject to ground conditions encountered.

Table 5-4: Preliminary Contamination Conceptual Model.

Notes: PL = Pollutant Linkage. Contaminant of Concern (CoC) - See Table 5-1 for contamination sources. Site conditions based on observations during site reconnaissance

PL	Pathway	Receptor	Contaminants of Concern (CoC)	Probability	Consequence	Risk	Recommendations
6	- Ingestion of tainted water supply.	- Future site users. - Water pipes.	- Organic contaminants such as petroleum hydrocarbons, naphthalene, volatile compounds.	Likely (given site history, possible deep made ground and direct contact / pathway)	Medium	Moderate	Intrusive investigation required. - Soil analysis of CoC, subject to ground conditions encountered.
7	- Direct contact (plant uptake).	- Flora.	- Phytotoxic contaminants such as heavy metals.	Likely (given site history, site conditions and proposed end use)	Minor	Low	Investigation work associated with PL1 will include assessment of this risk.

Table 5-4 (continued): Preliminary Contamination Conceptual Model.

Notes: PL = Pollutant Linkage. Contaminant of Concern (CoC) - See Table 5-1 for contamination sources. Site conditions based on observations during site reconnaissance.

6 Preliminary Geotechnical Risk Assessment

Table 6-1 summarises the possible geotechnical constraints of the site, based on the site history, environmental settings, and site reconnaissance. Investigation work will be required to confirm the risks and provide a detailed geotechnical assessment and foundation design.

Coal Mining	Site is not within a Development High Risk Area. No further assessment required.
Slope Stability	Site is relatively flat. No significant slope stability risk anticipated. No further assessment required.
Envirocheck Ground Stability Hazards	No to low hazard identified. No further action required.
Made Ground	Unknown depth and constituent of made ground across the site. Initial information indicates relatively deep made ground. Unlikely to be a suitable founding strata unless engineering work is undertaken.
Superficial	Unknown strength of soils for foundation design. Clay anticipated below the site. Strata may be variable giving differential settlement.
Bedrock	Strength and extent of weathering unknown. Likely to be a suitable founding strata. Unknown depth to bedrock.
Groundwater	Unknown depth and variability of groundwater. Shallow / fluctuating groundwater can affect the strength of the soil, particularly in granular ground. Shallow groundwater can also affect construction works.
Plasticity	Plasticity of clay deposits should be confirmed, particularly where trees are present or proposed, to identify the shrink / swell risk. Clay recorded on site.
Sulphate	Unknown sulphate content of the made ground and natural. Unknown ash content in made ground which may give rise to elevated sulphate. Anticipated leachate associated with onsite and adjacent refuse tip may also impact concrete classification.
Road / Pavement Design	Unknown CBR values for footpath and road design.

Table 6-1: Summary of geotechnical constraints.

7 Summary Conclusions and Recommendations

7.1 Summary Conclusions

Table 7-1 summarises the site details, historical review, environmental settings and site reconnaissance.

Current Site Use	Tarmacadam and compacted gravel area currently used for residential parking and domestic garages.
Proposed Development	Residential housing with gardens / soft landscaping. - Two semi-detached houses with soft landscaping in back gardens, with hardstood driveway, associated car parking and minimal soft landscaping.
Main Historical Features	Onsite: 2no. Refuse Tips, Unnamed Structures, Domestic Garages. Surrounding Area: Refuse Tip, Issues, Sinks, Unnamed water courses, embankments, Ponds, Quarry.
Geology / Hydrogeology	Artificial: No BGS recorded artificial. Superficial: Till (Devensian). Secondary Undifferentiated Aquifer. Bedrock: Marsden Formation (mudstone, siltstone), Secondary A Aquifer.
Landfills / Infilled ground	No recorded landfills. Potentially infilled ground identified on site (historic refuse tip).
Site walkover	Site is predominantly hardstood (tarmacadam and compacted gravel) with some areas of grass/weeds growing through the gravel. 6no. domestic garages currently on site in differing conditions, potential for ACMs. Site surrounded by roads, fields and residential properties.

Table 7-1: Summary of site details, historical review, environmental settings, and site reconnaissance.

A preliminary contamination conceptual model has been produced by LKC, which is summarised in Table 7-2.

Pollutant Linkage		Risk	Recommendations
PL1: Contaminants posing a risk to future site users via dermal contact, ingestion and inhalation (of soil, dust, fibres and vegetables).	ACM, heavy metals, PAHs, organic/inorganic contaminants	Moderate	Intrusive investigation required. Soil analysis of CoC, subject to ground conditions encountered.
	Petroleum hydrocarbons	Moderate / Low	Low density intrusive investigation required. Soil analysis of CoC, subject to ground conditions encountered.
PL2: Volatile contaminants posing a risk to future site users via the inhalation of vapours.		Moderate	Intrusive investigation required, to include PID testing. Soil analysis of CoC, subject to ground conditions encountered and PID testing. SVOC/VOC monitoring, depending on soil testing results.
PL3: Gas posing a risk to buildings and future site users via the migration of gas into building causing explosion and asphyxiation.	Carbon dioxide & methane	High	Gas monitoring required.
	Radon	Low	(<1%) No protective measures are necessary in the construction of new dwellings or extensions.
PL4: Mobile contamination posing a risk to controlled waters via the migration through permeable strata.		Moderate / Low	Intrusive investigation required. Groundwater sampling, subject to ground conditions encountered. Analysis of CoC.
PL5: Sulphate posing a risk to building via direct contact (sulphate attack).		Moderate / Low	Intrusive investigation required. Soil analysis of CoC, subject to ground conditions encountered.
PL6: Organic contaminants posing a risk to water pipes.		Moderate	Intrusive investigation required. Soil analysis of CoC, subject to ground conditions encountered.
PL7: Phytotoxic metals posing a risk to flora via root uptake.		Low	Investigation work associated with PL1 will include assessment of this risk.

Table 7-2: Summary risk table.

Where moderate / low risk had been identified, the assumed risk is shown in bold.

A preliminary geotechnical assessment has been carried out by LKC. Table 7-3 summarises the geotechnical constraints.

Coal Mining	Site is not within a Development High Risk Area. No further assessment required.
Slope Stability	No risk was found regarding slope stability.
Made Ground	Unknown depth and constituent of made ground across the site.
Superficial	Unknown strength of soils for foundation design.
Bedrock	Unknown depth to bedrock.
Groundwater	Unknown depth and variability of groundwater.
Plasticity	Plasticity of clay deposits should be confirmed.
Sulphate	Unknown sulphate content of the made ground and natural.
Road / Pavement Design	Unknown CBR values for footpath and road design should be calculated.

Table 7-3: Summary of geotechnical constraints.

7.2 Recommendations

Recommendations are provided in Table 7-4.

Contamination status	There is sufficient information on the potential contaminative status of the site to allow conditional approval of a planning application, based on the proposed end use detailed in the PRA.
Further assessment recommendations	Phase 2 intrusive investigation required. Phase 2 investigation to be carried out in line with current guidance, including BS10175 ¹⁰ , BS5930 ¹¹ CIRIA C665 ¹² , RB17 ¹³ and BS8485 ¹⁴ . 'Detailed investigation': 1 sample per 10-25m square centres. Plus targeted investigation locations in areas of concern (contamination and geotechnical). To be agreed with the local authority.
Type of investigation work	Boreholes.
PL 1, 2, 5, 6, 7	Intrusive investigation work recommended to confirm ground conditions across the site. Testing of contaminants of concern based on preliminary conceptual model and field observations (PID tests and visual / olfactory evidence).
PL 3	Gas monitoring required. Gas monitoring: monitoring wells to be installed in boreholes, monitoring frequency and period subject to anticipated risk.
PL 4	Groundwater sampling. Groundwater samples to be collected from monitoring wells and tested for contaminants of concern based on preliminary conceptual model and ground conditions encountered.
Reporting	Information from the above can be used to carry out a contamination and geotechnical assessment and provide a remediation strategy for the site.
Importation of soils	Any topsoil or subsoil brought on to the site for use in gardens / soft landscaping should be suitably chemically validated prior to its use on site, according to Local Authority guidance.

Table 7-4: Recommendations.

Further Considerations are summarised in Table 7-5.

Asbestos	Even though no asbestos was identified externally on the existing garages, given the age, there may be areas inside that have Asbestos Containing Materials (ACMs). Therefore, we would advise that a Pre-Demolition Asbestos Survey is undertaken prior to demolition by a professional contractor. The LK Group have a designated Asbestos Department would be happy to advise you on the appropriate steps to take in order to have the building suitably surveyed.
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Table 7-5: Further considerations.

¹⁰ British Standard (2017). "Investigation of Potentially Contaminated Sites – Code of Practice". BS10175:2017.

¹¹ British Standard (2015). "Code of Practice for Ground Investigations". BS5930:2015.

¹² CIRIA (2007). "Assessing Risks Posed by Hazardous Ground Gases to Buildings". CIRIA C665.

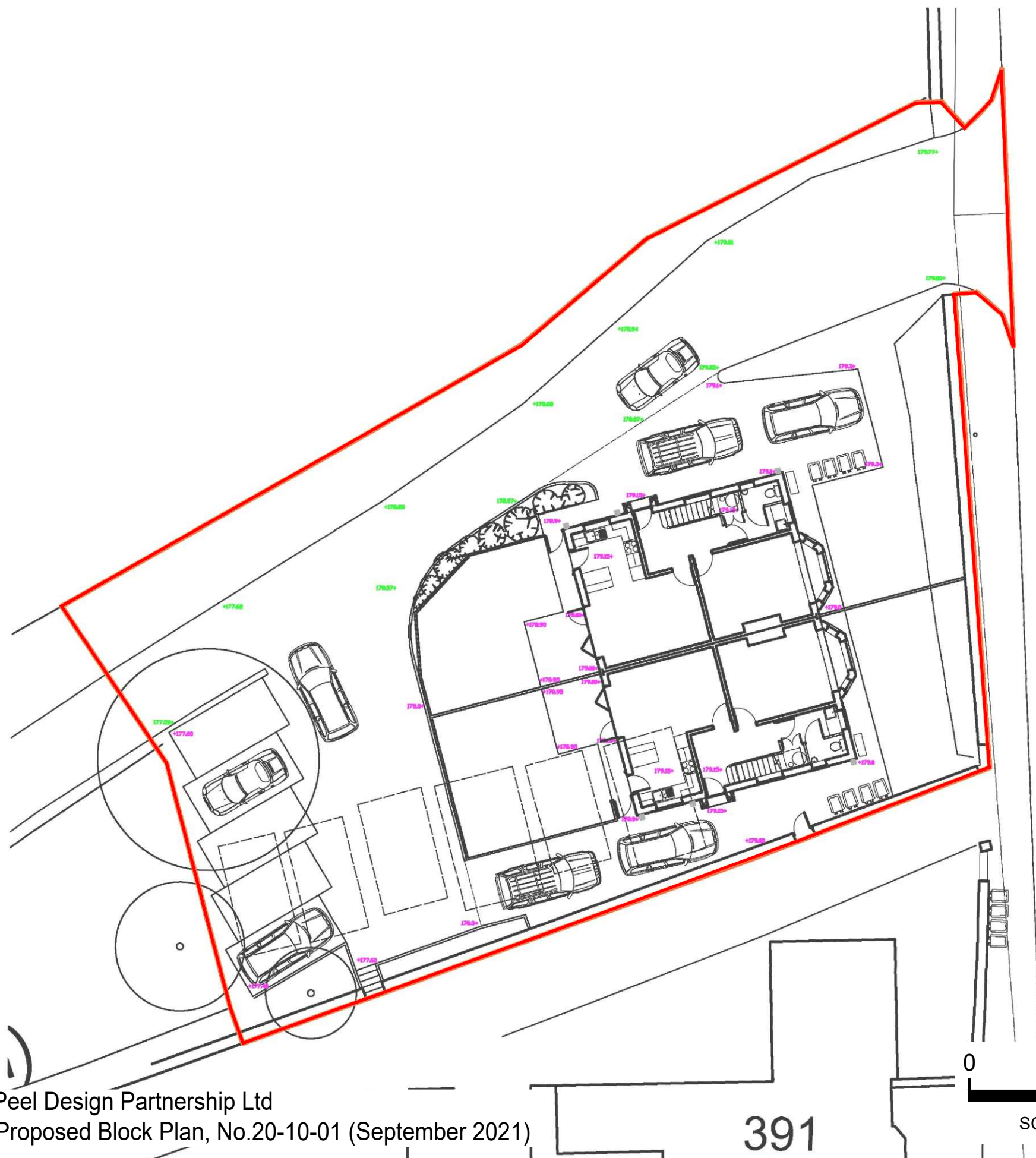
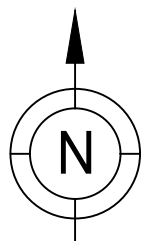
¹³ CL:AIRE Research Bulletin RB17 (November 2012) "A Pragmatic Approach to Ground Gas Risk Assessment".

¹⁴ BSI (2015). "Code of Practice for the Design of Protective Measures for Methane and Carbon Dioxide Ground Gases for New Buildings". BS8485:2015.

Figures



Client: Steven Mort				Title: Site Location & Boundary Plan			
Site: Whalley Road, Ramsbottom				Scale (see scale bar): 1:25,000 & 1:1,000 @ A4			
Job No.: LKC 21 1680	Drawn By: JW	Checked By: EK	Drawn: Nov 2021	Figure: 1	Revision:		



KEY

 Site Boundary

Sampling Locations and features annotated by LK Consult Ltd are approximate and are based upon observed measurements unless otherwise stated. Do not scale from this drawing and work from marked dimensions only. All dimensions and features should be confirmed on site by the Contractor. Where this drawing includes information provided to LK Consult Ltd by others, LK Consult Ltd gives no warranty, representation or assurance as to the accuracy of such information.



Client: Steven Mort

Site: Whalley Road, Ramsbottom

Title: Proposed Development Plan

Job No.: LKC 21 1680	Scale (See Scale Bar): See Scale Bar	Figure: 2	Revision:
Drawn By: AC	Checked By: JW	Drawn: Nov 2021	

Extract from: Peel Design Partnership Ltd
Drawing Ref: Proposed Block Plan, No.20-10-01 (September 2021)

391

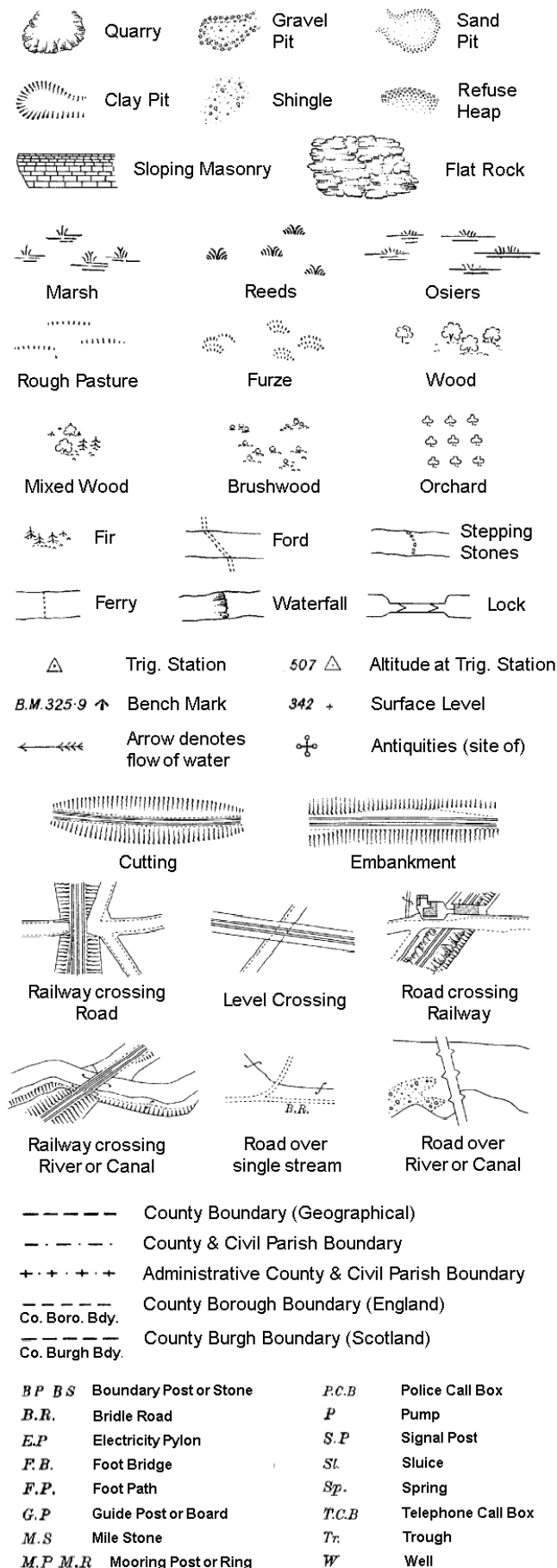
SCALE (Metres)

Appendix A

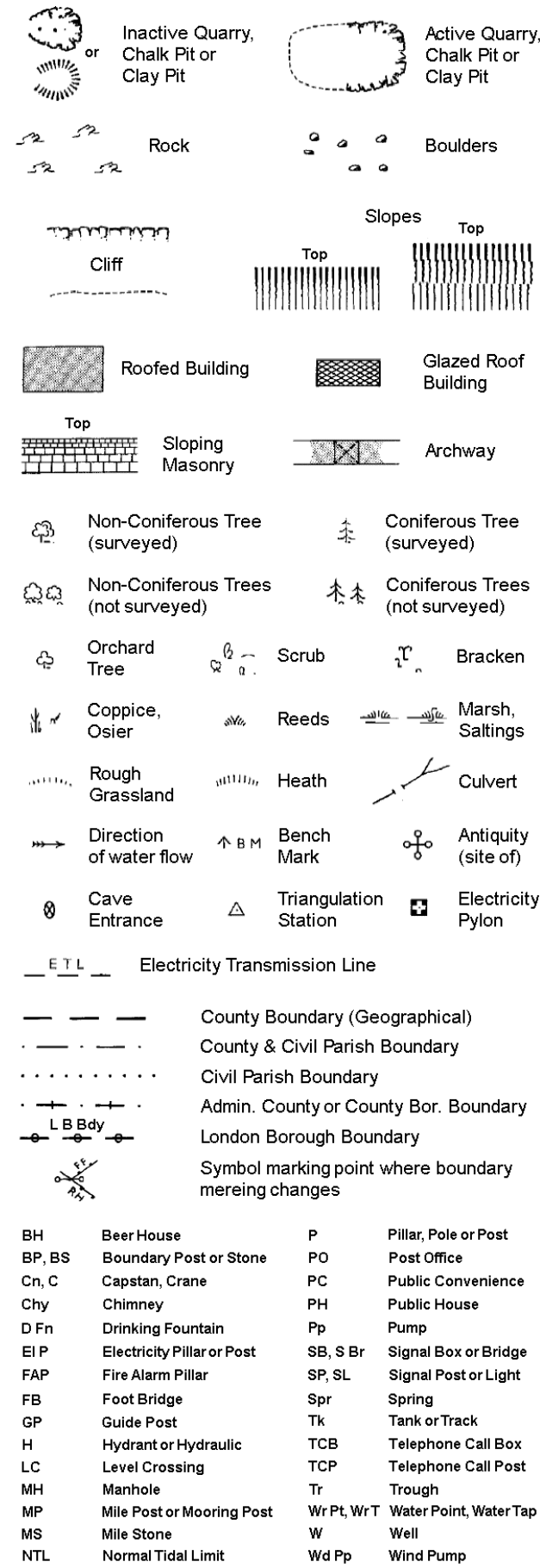
Historical Maps

Historical Mapping Legends

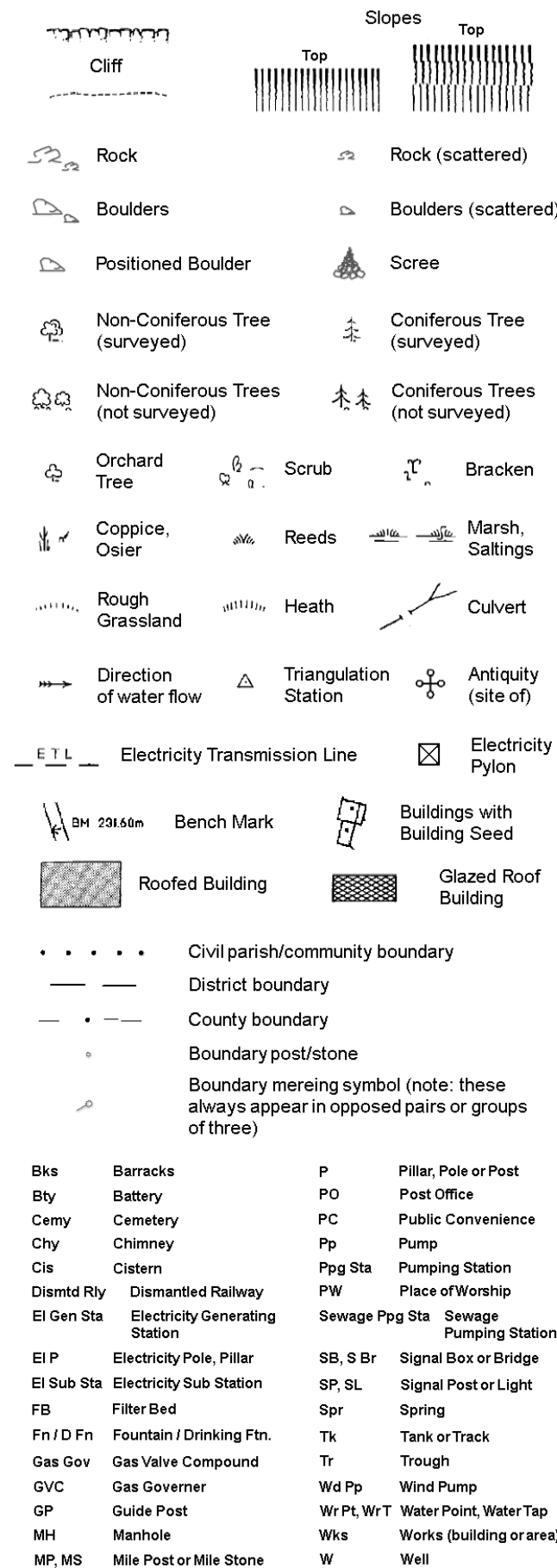
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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

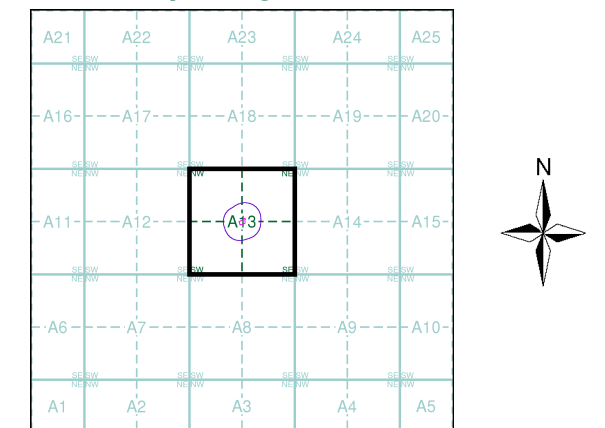


GROUP

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:2,500	1893	2
Lancashire And Furness	1:2,500	1910	3
Lancashire And Furness	1:2,500	1929	4
Ordnance Survey Plan	1:2,500	1963	5
Additional SIMs	1:2,500	1963 - 1980	6
Supply of Unpublished Survey Information	1:2,500	1973	7
Ordnance Survey Plan	1:2,500	1976 - 1983	8
Ordnance Survey Plan	1:2,500	1983	9
Additional SIMs	1:2,500	1983	10
Large-Scale National Grid Data	1:1,250	1992	11
Large-Scale National Grid Data	1:2,500	1992	12
Large-Scale National Grid Data	1:2,500	1993	13
Large-Scale National Grid Data	1:2,500	1994	14
Large-Scale National Grid Data	1:2,500	1996	15
Historical Aerial Photography	1:2,500	2001	16

Historical Map - Segment A13



Order Details

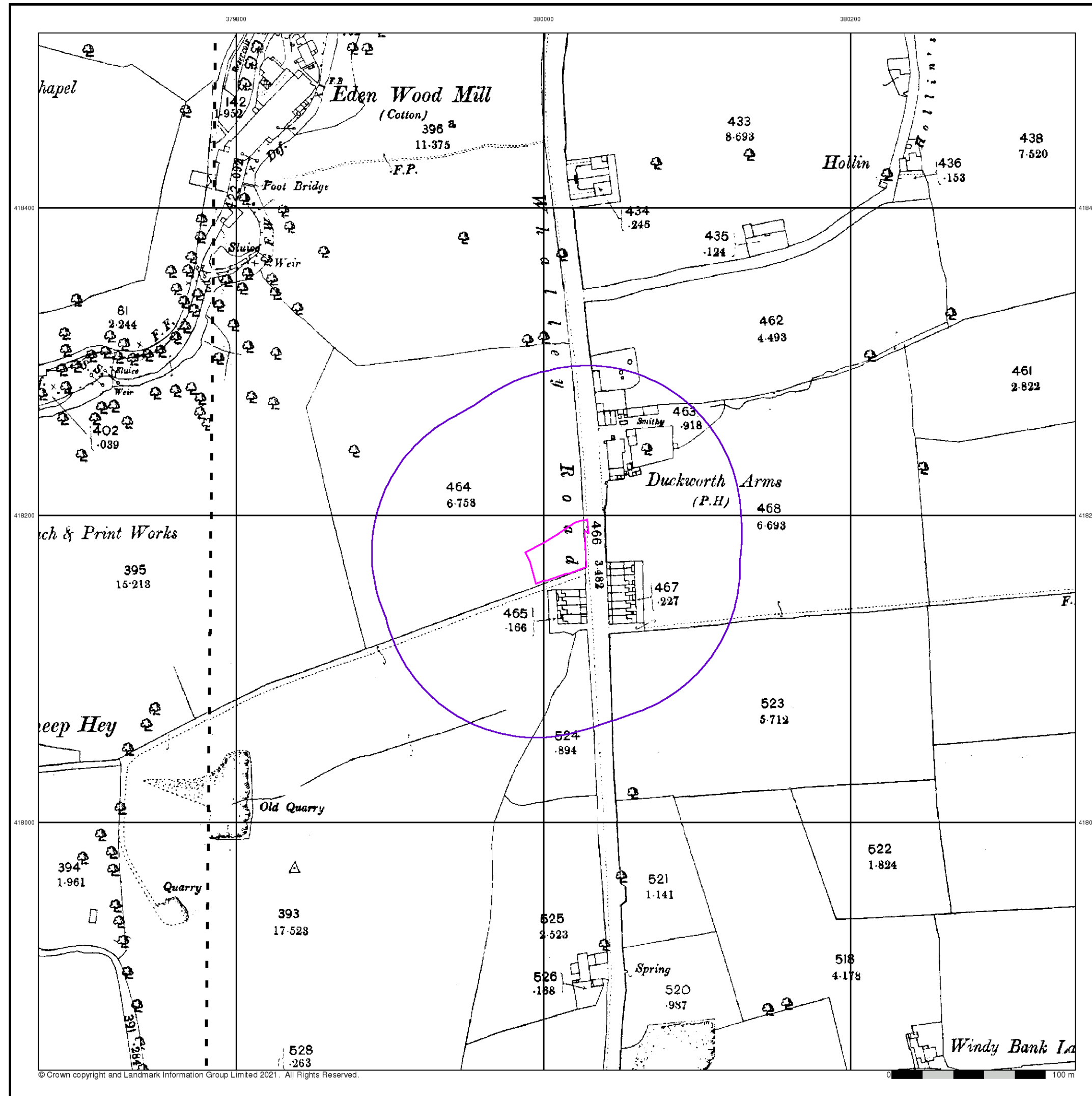
Order Number: 287431069_1_1
Customer Ref: LKC 21 1608
National Grid Reference: 380010, 418180
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 100

Site Details

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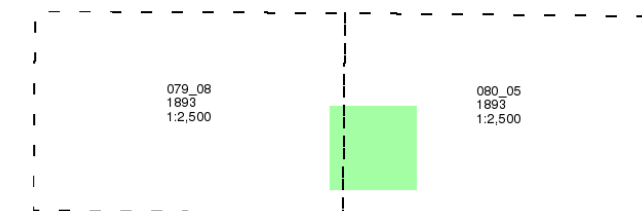
Lancashire And Furness

Published 1893

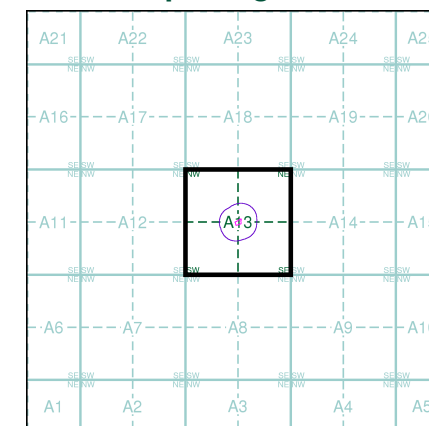
Source map scale - 1:2,500

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: 287431069_1_1
Customer Ref: LKC 21 1608
National Grid Reference: 380010, 418180
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 100

Site Details

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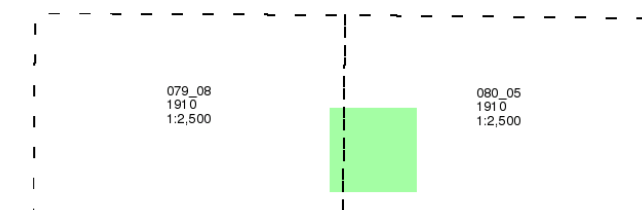
Tel: 0844 844 9952
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Web: www.envirocheck.co.uk

Published 1910

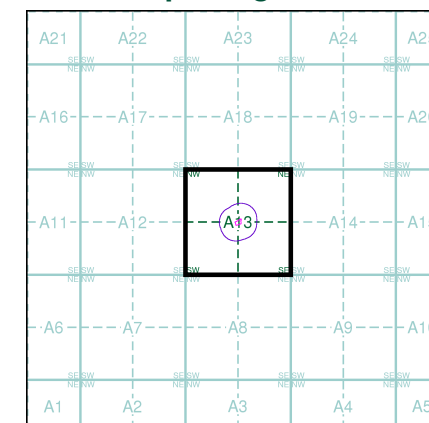
Source map scale - 1:2,500

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

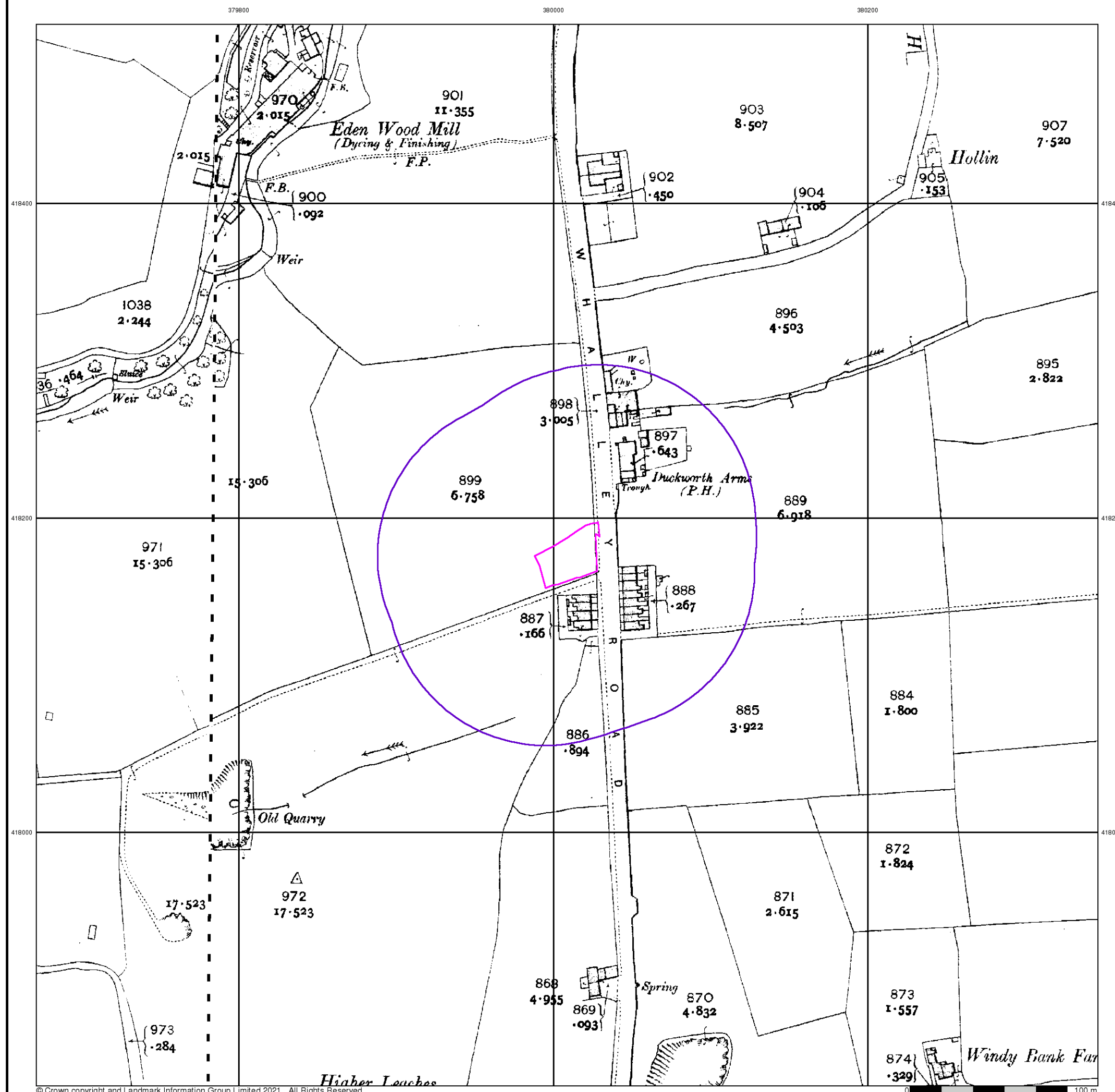


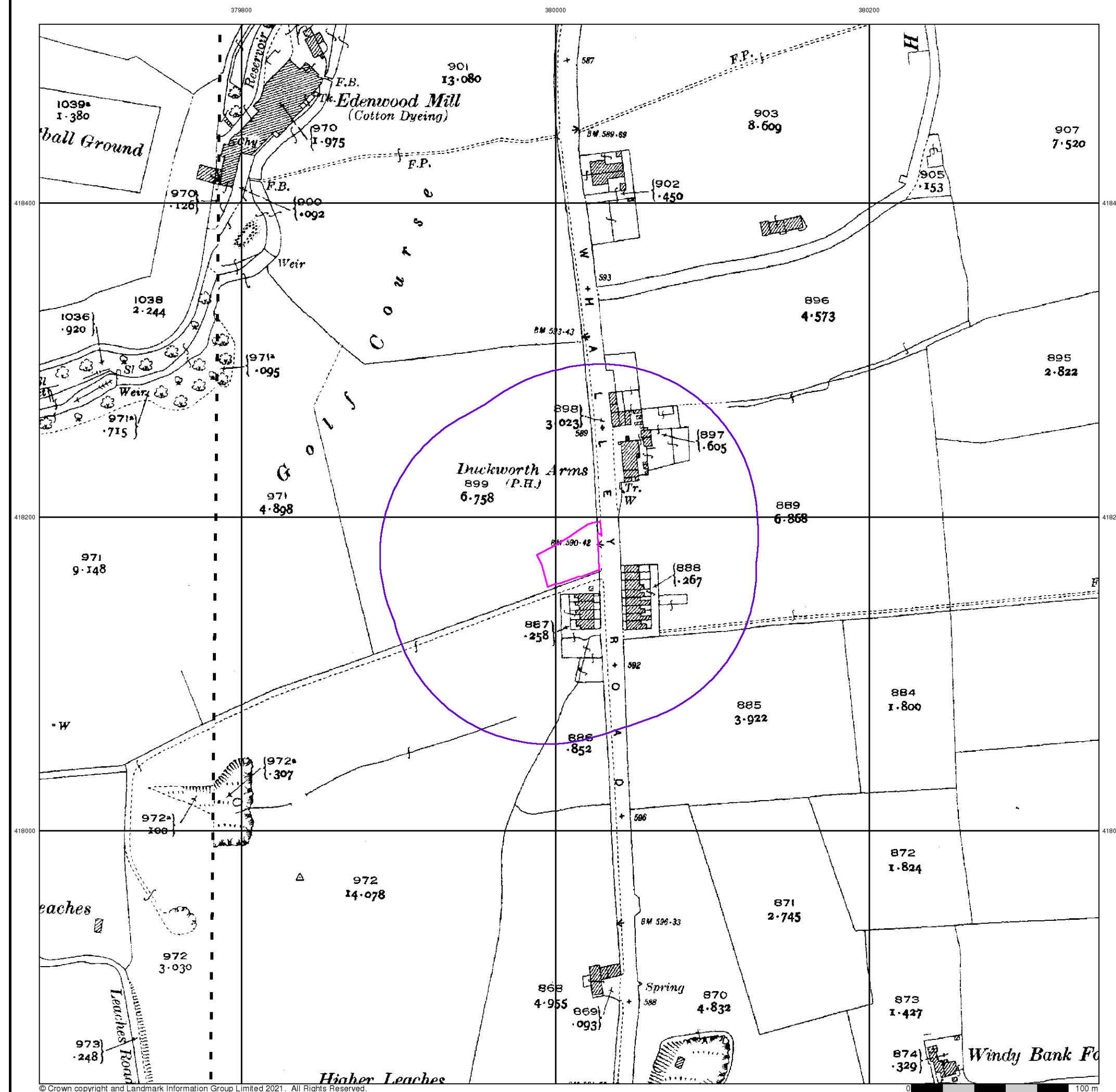
Order Details

Order Number: 287431069_1_1
Customer Ref: LKC 21 1608
National Grid Reference: 380010, 418180
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 100

Site Details

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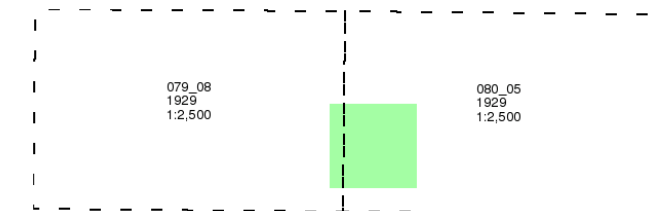
GROUP

Lancashire And Furness

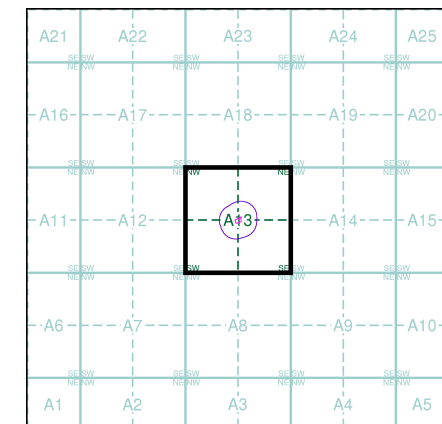
Source map scale - 1:2,500

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

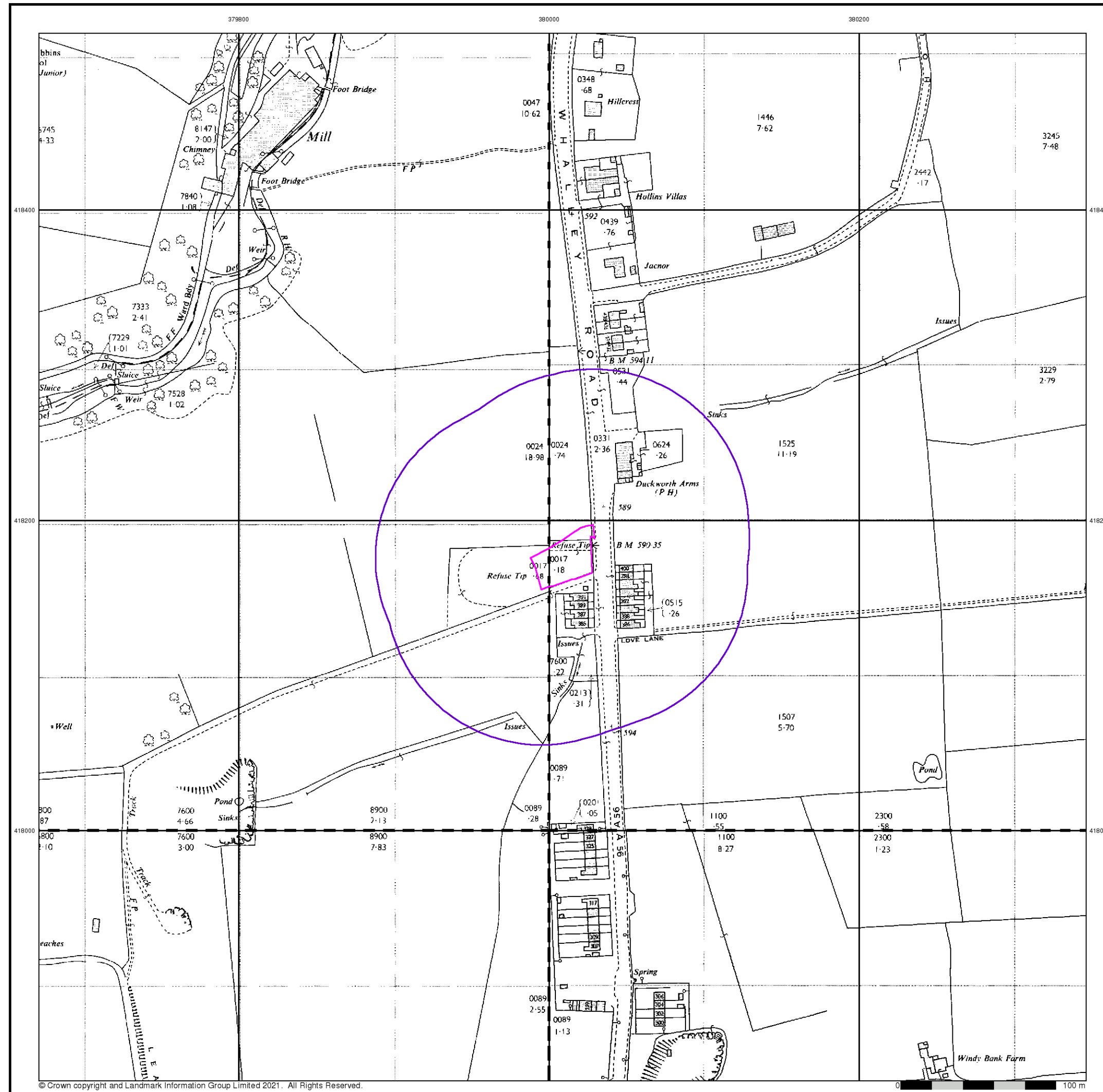
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Customer Ref:	LKC 21 1608
National Grid Reference:	380010, 418180
Slice:	A
Site Area (Ha):	0.1
Search Buffer (m):	100

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Ordnance Survey Plan

Published 1963

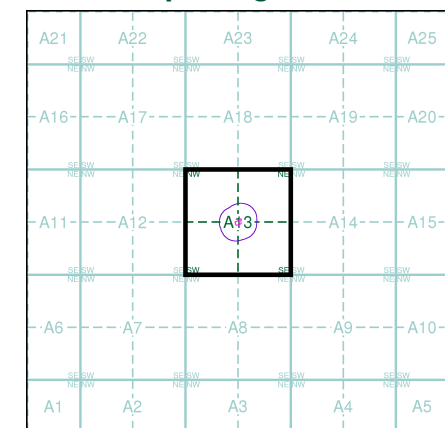
Source map scale - 1:2,500

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)

SD7918 1963 1:2,500	SD8018 1963 1:2,500
SD7917 1963 1:2,500	SD8017 1963 1:2,500

Historical Map - Segment A13



Order Details

Order Number: 287431069_1_1
Customer Ref: LKC 21 1608
National Grid Reference: 380010, 418180
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 100

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A Landmark Information Group Service v50.0 08-Nov-2021 Page 6 of 16

GROUP

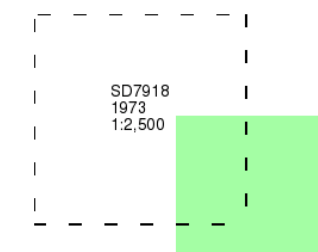
Supply of Unpublished Survey Information

Published 1973

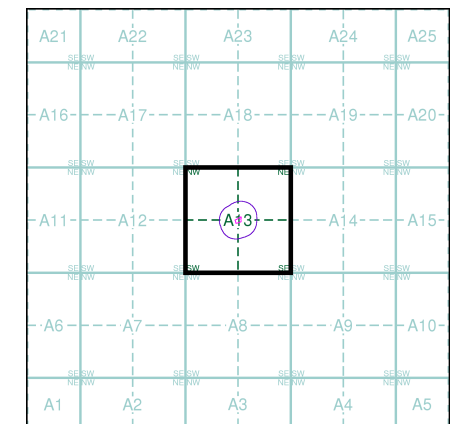
Source map scale - 1:2,500

SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. These were more of a 'work-in-progress' plan as they showed updates of individual areas on a map. These maps were unpublished, and they do not represent a single moment in time. They 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: 287431069_1_1
Customer Ref: LKC 21 1608
National Grid Reference: 380010, 418180
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 100

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Ordnance Survey Plan

Published 1976 - 1983

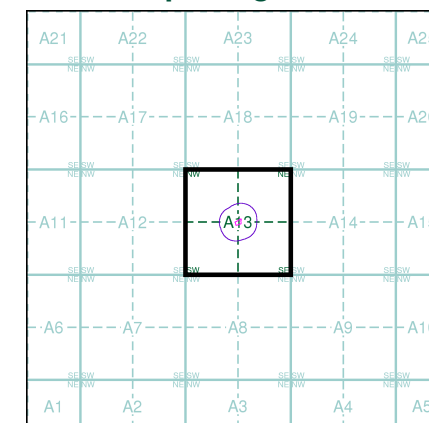
Source map scale - 1:2,500

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)

SD7918 1977 1:2,500	SD8018 1976 1:2,500
SD7917 1983 1:2,500	

Historical Map - Segment A13



Order Details

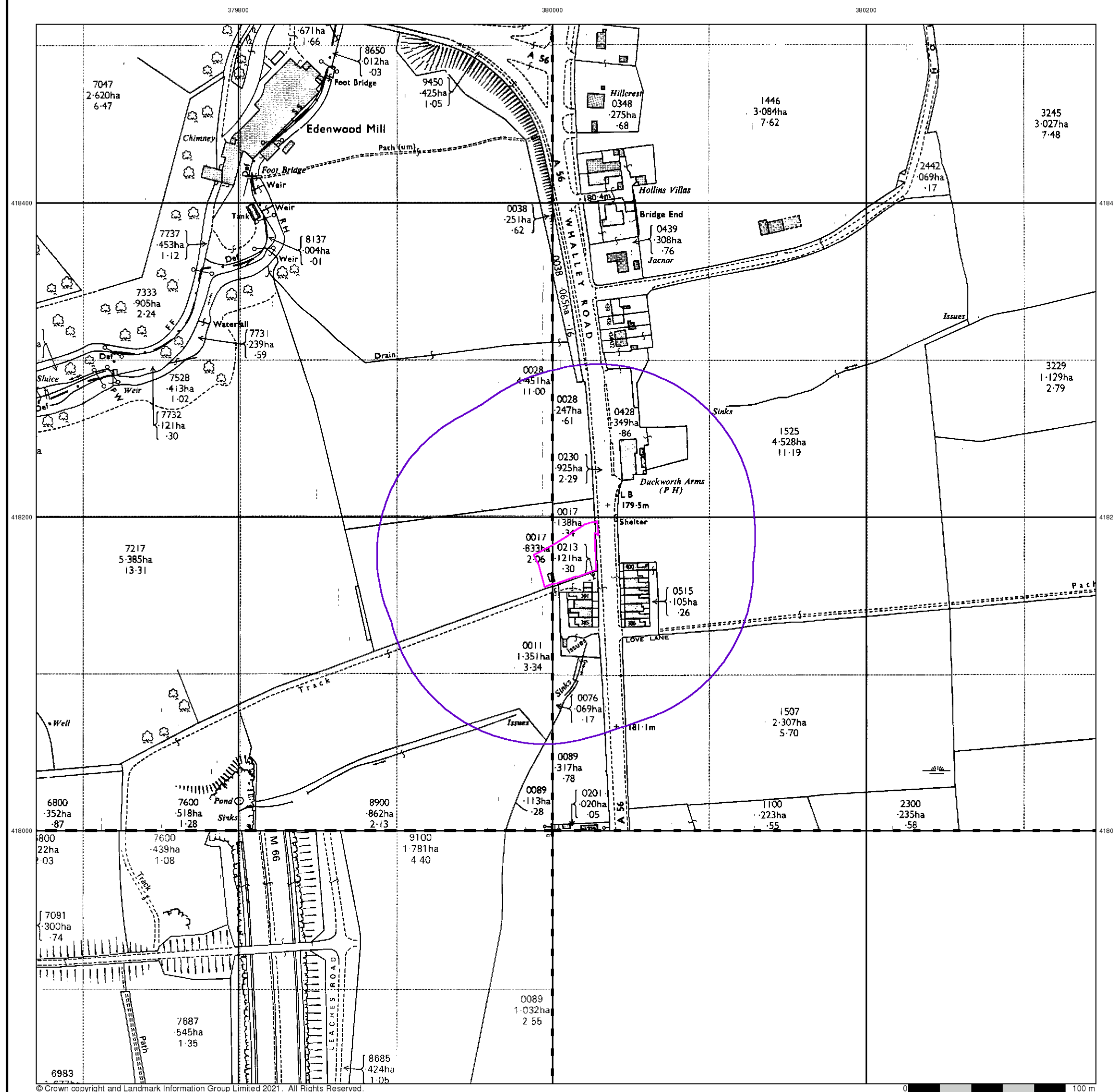
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Search Buffer (m): 100

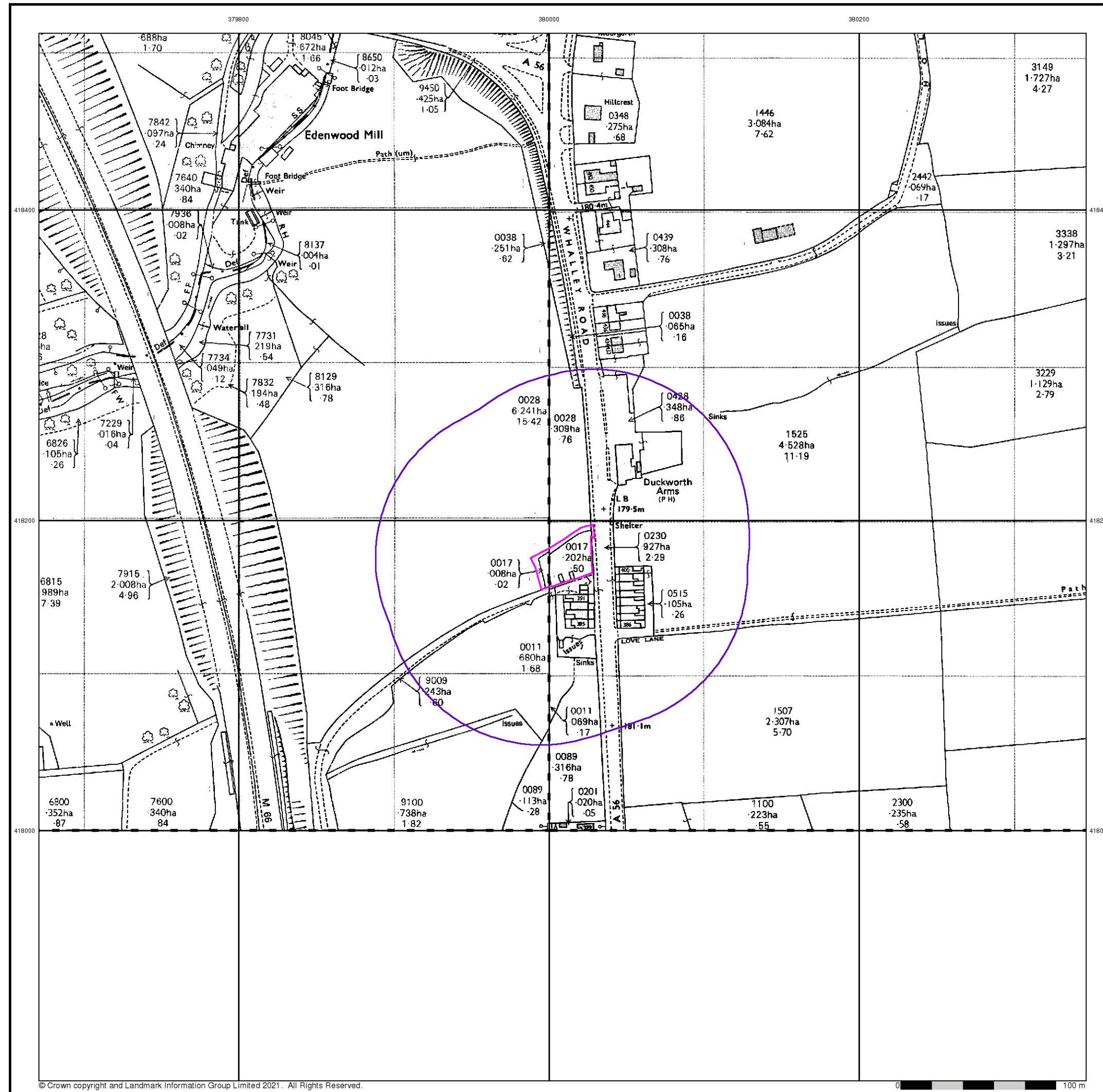
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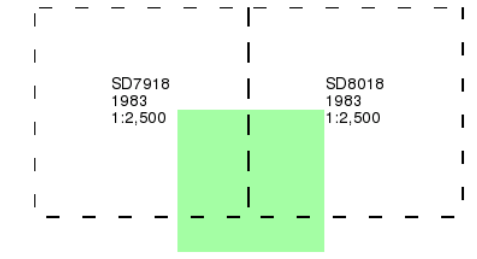
Ordnance Survey Plan

Published 1983

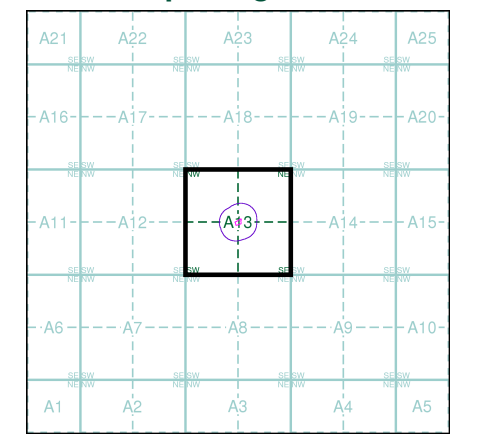
Source map scale - 1:2,500

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

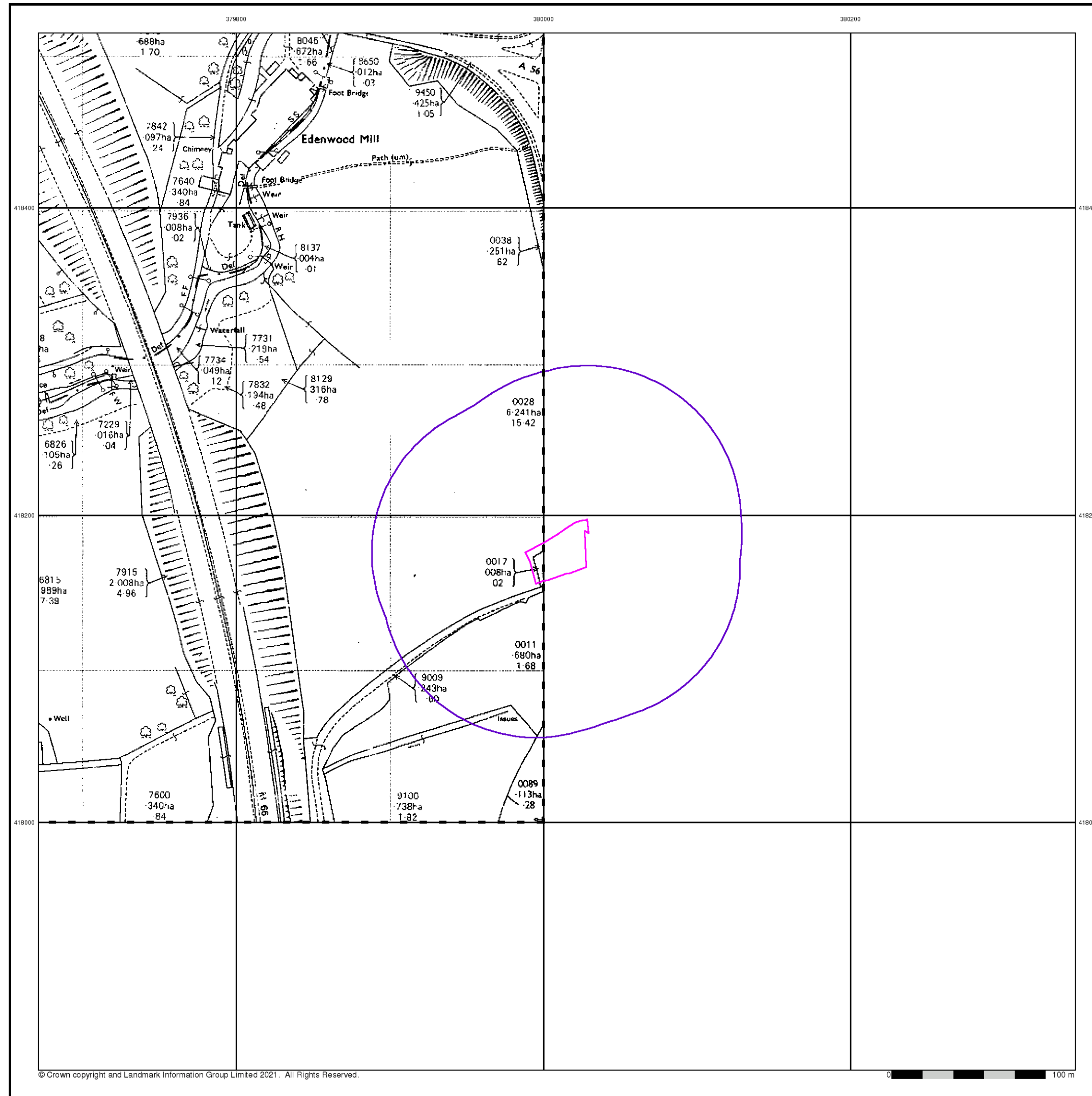
Order Number: 287431069_1_1
Customer Ref: LKC 21 1608
National Grid Reference: 380010, 418180
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 100

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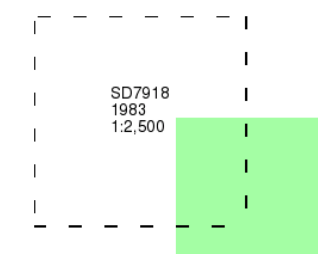
Additional SIMs

Published 1983

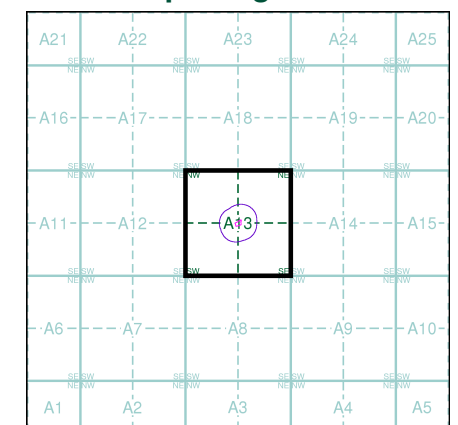
Source map scale - 1:2,500

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: 287431069_1_1
 Customer Ref: LKC 21 1608
 National Grid Reference: 380010, 418180
 Slice: A
 Site Area (Ha): 0.1
 Search Buffer (m): 100

Site Details

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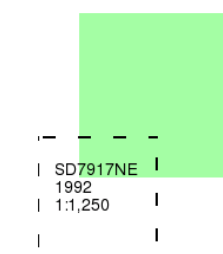
Large-Scale National Grid Data

Published 1992

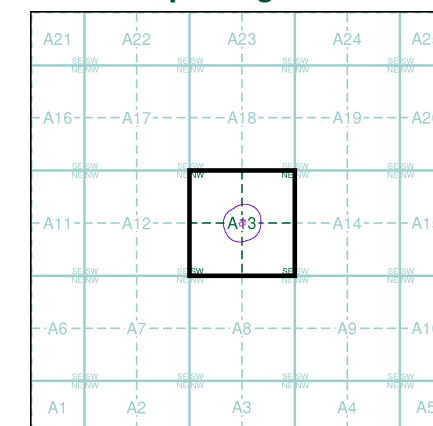
Source map scale - 1:1,250

'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

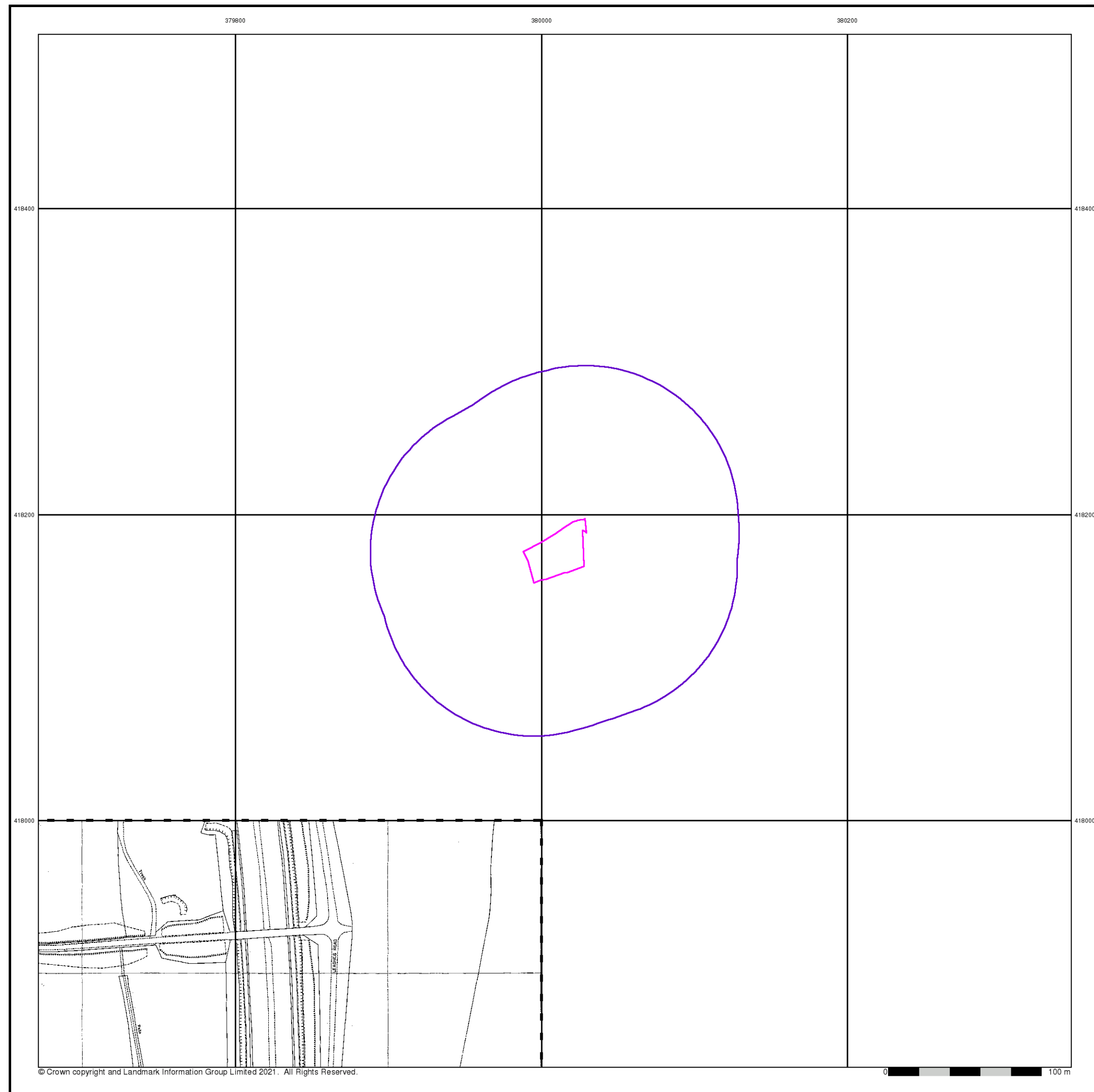
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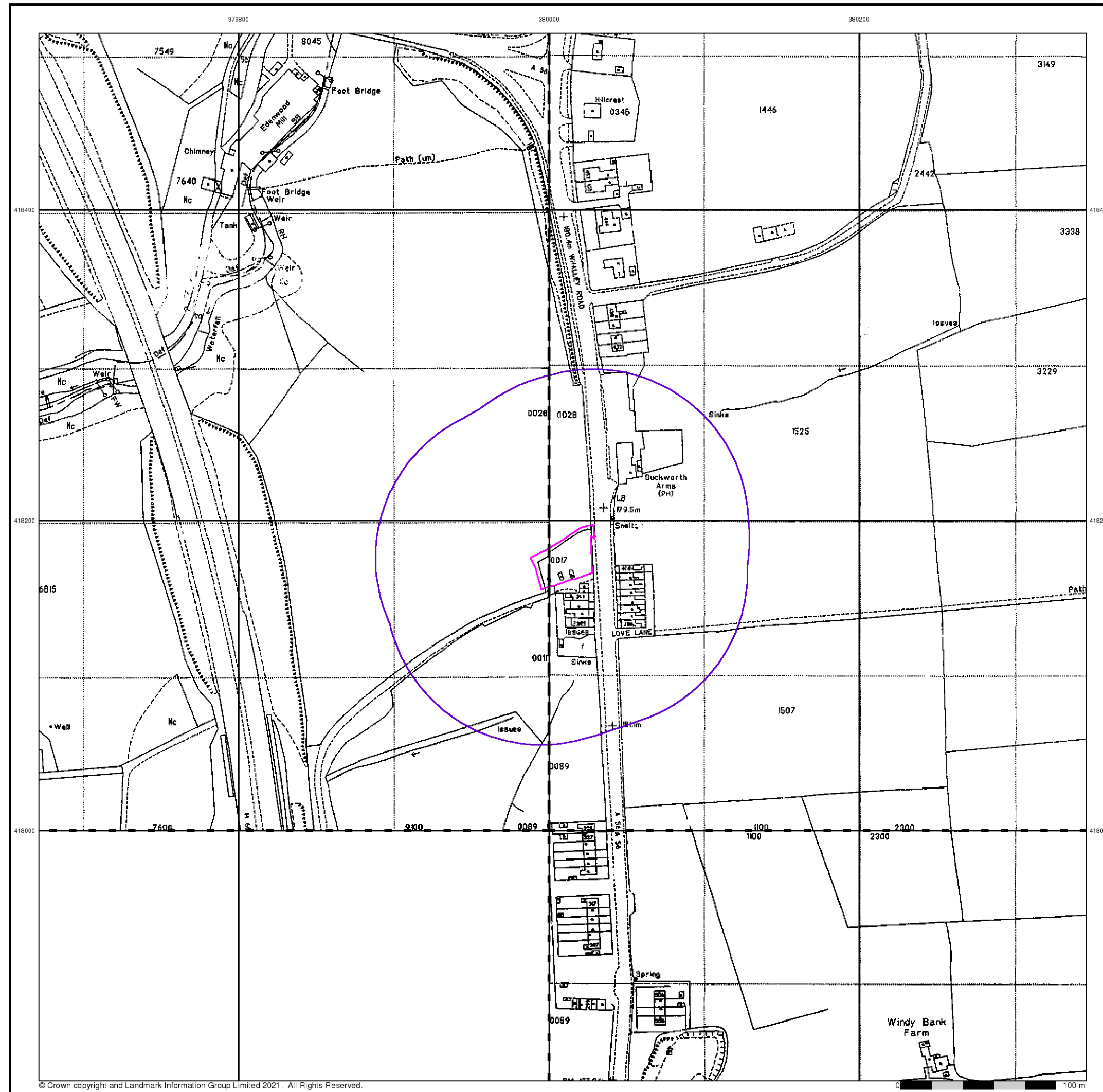
Site Details

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Large-Scale National Grid Data

Published 1992

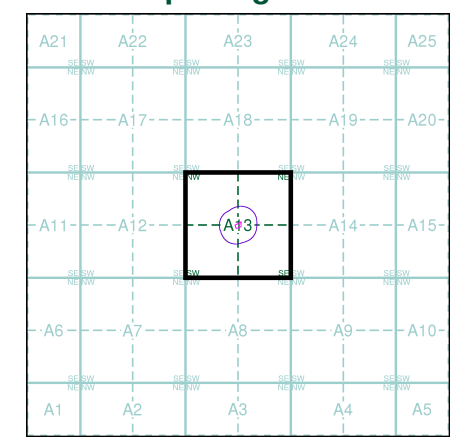
Source map scale - 1:2,500

'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)

SD7918 1992 1:2,500	SD8018 1992 1:2,500
	SD8017 1992 1:2,500

Historical Map - Segment A13



Order Details

Order Number: 287431069_1_1
Customer Ref: LKC 21 1608
National Grid Reference: 380010, 418180
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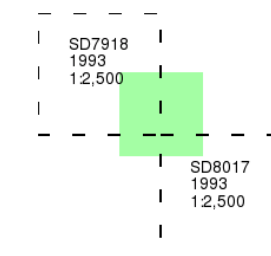
Site Details

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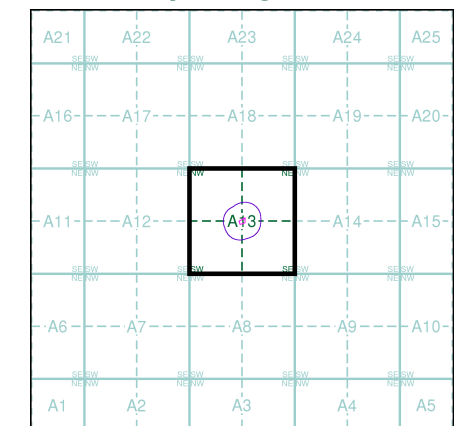
LK
GROUP
Large-Scale National Grid Data
Published 1993
Source map scale - 1:2,500

'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

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Slice: A
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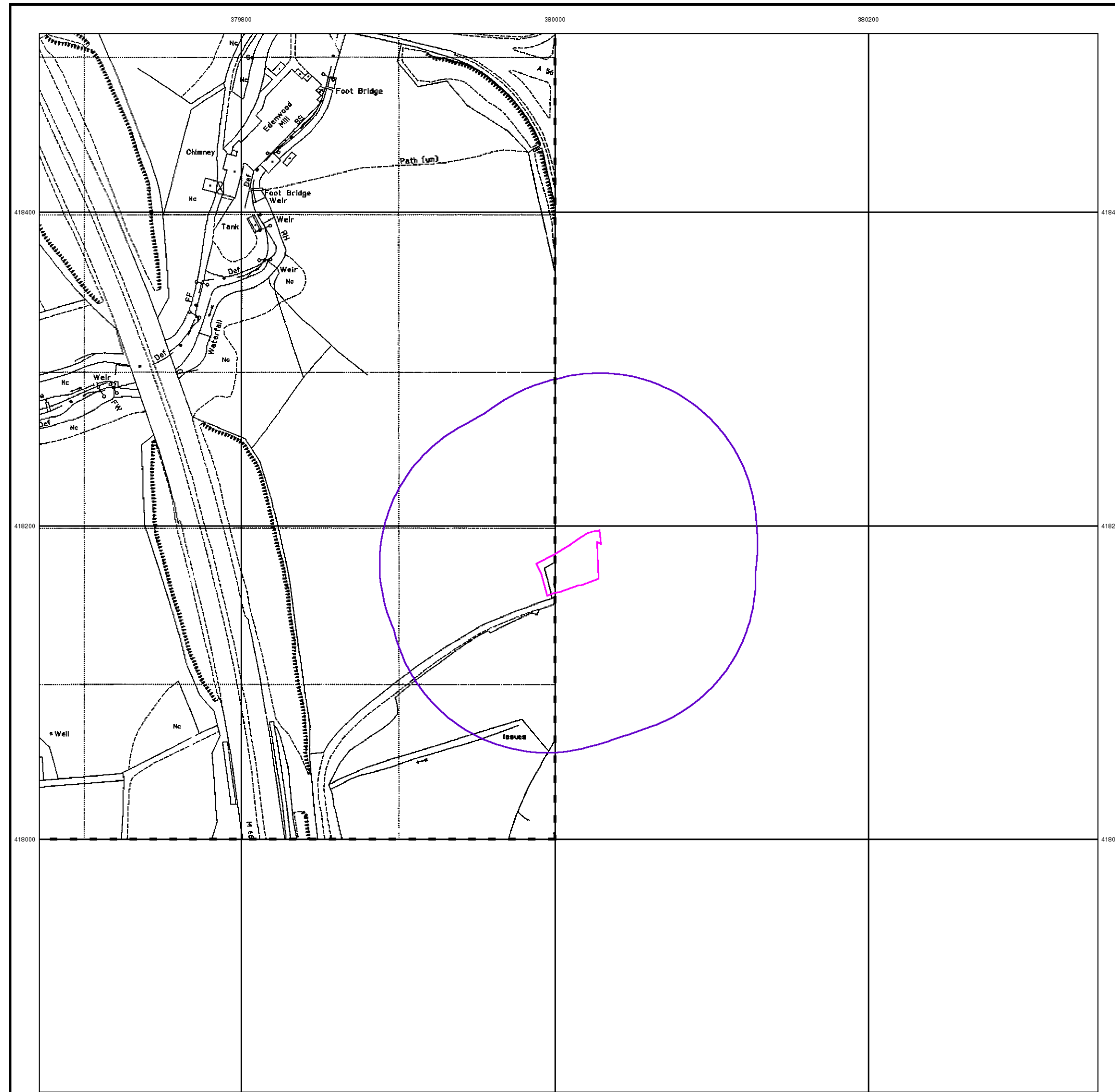
Site Details

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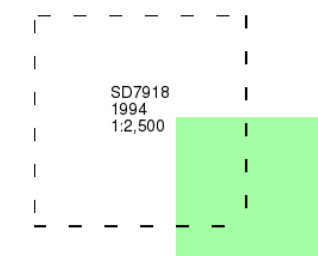
Large-Scale National Grid Data

Published 1994

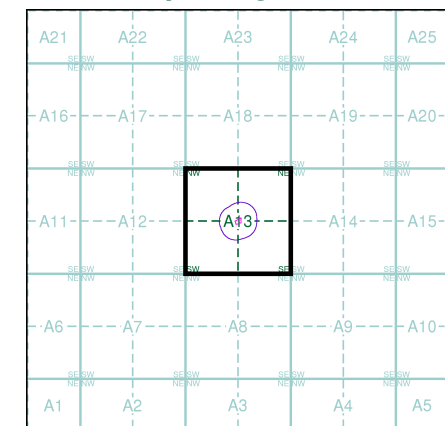
Source map scale - 1:2,500

'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

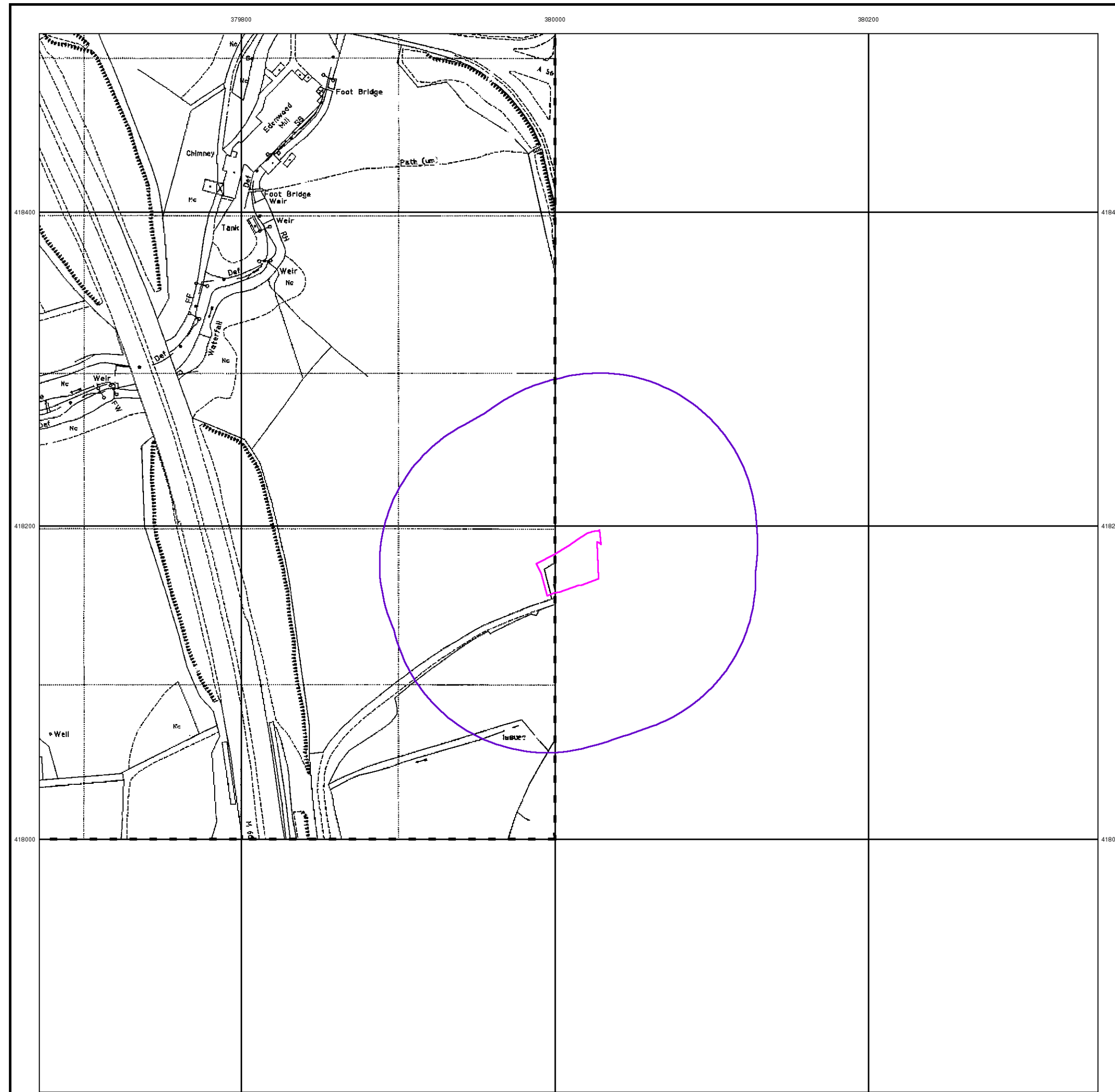
Order Number: 287431069_1_1
Customer Ref: LKC 21 1608
National Grid Reference: 380010, 418180
Slice: A
Site Area (Ha): 0.1
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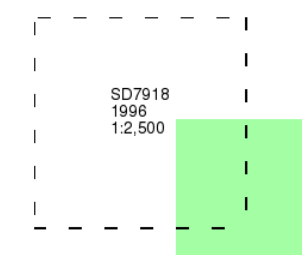
Large-Scale National Grid Data

Published 1996

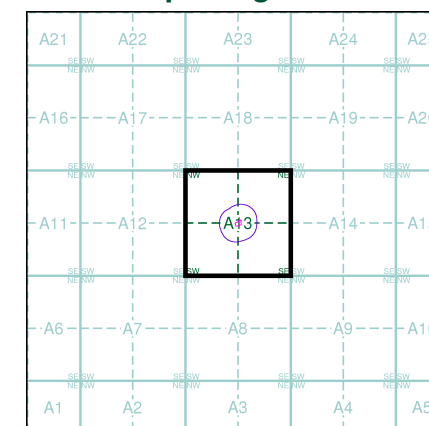
Source map scale - 1:2,500

'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: 287431069_1_1
Customer Ref: LKC 21 1608
National Grid Reference: 380010, 418180
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 100

Site Details

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0 100 m

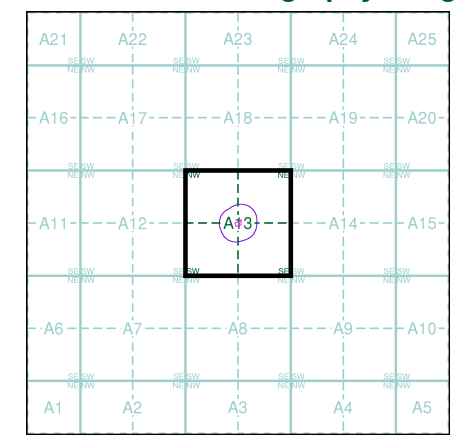


Historical Aerial Photography

Published 2001

This aerial photography was produced by Getmapping, these vertical aerial photographs provide a seamless, full colour survey of the whole of Great Britain

Historical Aerial Photography - Segment A13



Order Details

Order Number: 287431069_1_1
Customer Ref: LKC 21 1608
National Grid Reference: 380010, 418180
Slice: A
Site Area (Ha): 0.1
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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

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

Ordnance Survey Plan 1:10,000

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

1:10,000 Raster Mapping

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

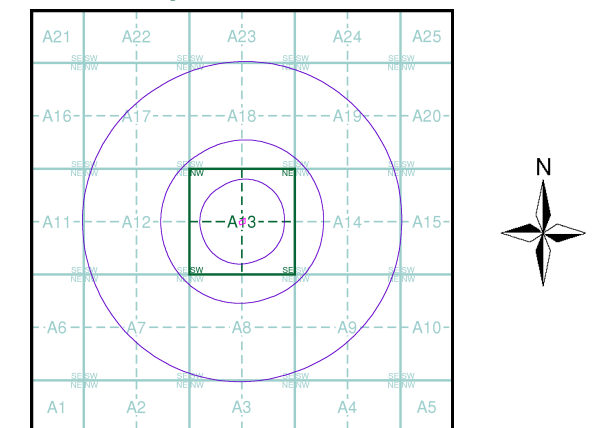


GROUP

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1850 - 1851	3
Lancashire And Furness	1:10,560	1894 - 1895	4
Lancashire And Furness	1:10,560	1912	5
Lancashire And Furness	1:10,560	1930	6
Lancashire And Furness	1:10,560	1938 - 1939	7
Ordnance Survey Plan	1:10,000	1955 - 1956	8
Ordnance Survey Plan	1:10,000	1967 - 1968	9
Manchester	1:25,000	1975	10
Ordnance Survey Plan	1:10,000	1982 - 1987	11
Ordnance Survey Plan	1:10,000	1993	12
10K Raster Mapping	1:10,000	1999	13
10K Raster Mapping	1:10,000	2006	14
VectorMap Local	1:10,000	2021	15

Historical Map - Slice A



Order Details

Order Number: 287431069_1_1
 Customer Ref: LKC 21 1608
 National Grid Reference: 380010, 418180
 Slice: A
 Site Area (Ha): 0.1
 Search Buffer (m): 1000

Site Details

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Russian Military Mapping Legends

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

a. Not drawn to scale b. Drawn to scale

Government and Administrative Buildings Military and Industrial Buildings

Military and Communication Areas Subway Entrance

Fireproof Building Prominent Fireproof Building

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

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

Power Station, drawn to scale Hydroelectric Power Station

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

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

Pit Oil Deposit or Well Oil Seepage

Tailings Pile Fuel Storage Tanks Natural Gas Tank

Bench Mark Drill Hole Burial Mound Triangulation Point on Burial Mound

Single-track Railroad Double-track Railroad and Station Building

Coniferous Forest Deciduous Forest Mixed Forest

Lawns Citrus Orchard Wet Ground Scattered Vegetation

243.8 Values for prominent elevations

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

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

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

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

А а (A)	З з (Z)	П п (P)	Ч ч (CH)
Б б (B)	И и (I)	Р р (R)	Ш ш (SH)
В в (V)	Й й (Y)	С с (S)	Щ щ (SHCH)
Г г (G)	К к (K)	Т т (T)	Ъ (-)
Д д (D)	Л л (L)	У у (U)	Ы (Y)
Е е (E)	М м (M)	Ф ф (F)	Ь (')
Ё ё (YO)	Н н (N)	Х х (KH)	Э э (E)
Ж ж (ZH)	О о (O)	Ц ц (TS)	Ю ю (YU or IU)
			Я я (YA or IA)

1:25,000 mapping

a. Not drawn to scale b. Drawn to scale

Government and Administrative Buildings Military and Industrial Buildings

Military and Communication Areas Subway Entrance

Partly Demolished Buildings Demolished Buildings

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

Individual Fireproof Building Prominent Industrial Building

Individual Dwelling, Fireproof Ruins of an Individual Dwelling

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

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

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

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

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

Bench Mark Bench Mark (monumented) Telegraph Office Telephone Station

Radio Station Radio Tower Airfield or Seaplane Base Landing Strip

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

Double-track Railroad with First Class Station Railroad Under Construction

Shore Embankment River or Ditch with Embankment Direction and velocity of current Water Gauge Water Level Mark

Well Water Reservoir or Rain Water Pit Spring Isobath with value

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

Coniferous Deciduous Mixed Scrub

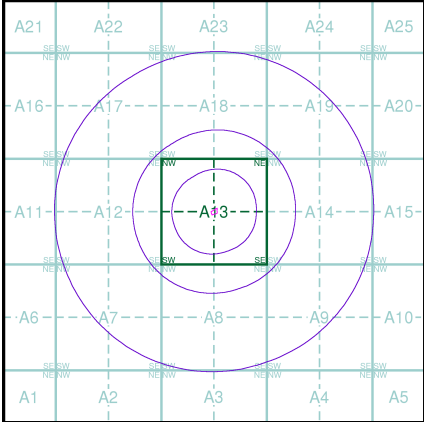
Key to Numbers on Mapping



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1850 - 1851	3
Lancashire And Furness	1:10,560	1894 - 1895	4
Lancashire And Furness	1:10,560	1912	5
Lancashire And Furness	1:10,560	1930	6
Lancashire And Furness	1:10,560	1938 - 1939	7
Ordnance Survey Plan	1:10,000	1955 - 1956	8
Ordnance Survey Plan	1:10,000	1967 - 1968	9
Manchester	1:25,000	1975	10
Ordnance Survey Plan	1:10,000	1982 - 1987	11
Ordnance Survey Plan	1:10,000	1993	12
10K Raster Mapping	1:10,000	1999	13
10K Raster Mapping	1:10,000	2006	14
VectorMap Local	1:10,000	2021	15

Russian Map - Slice A



Order Details

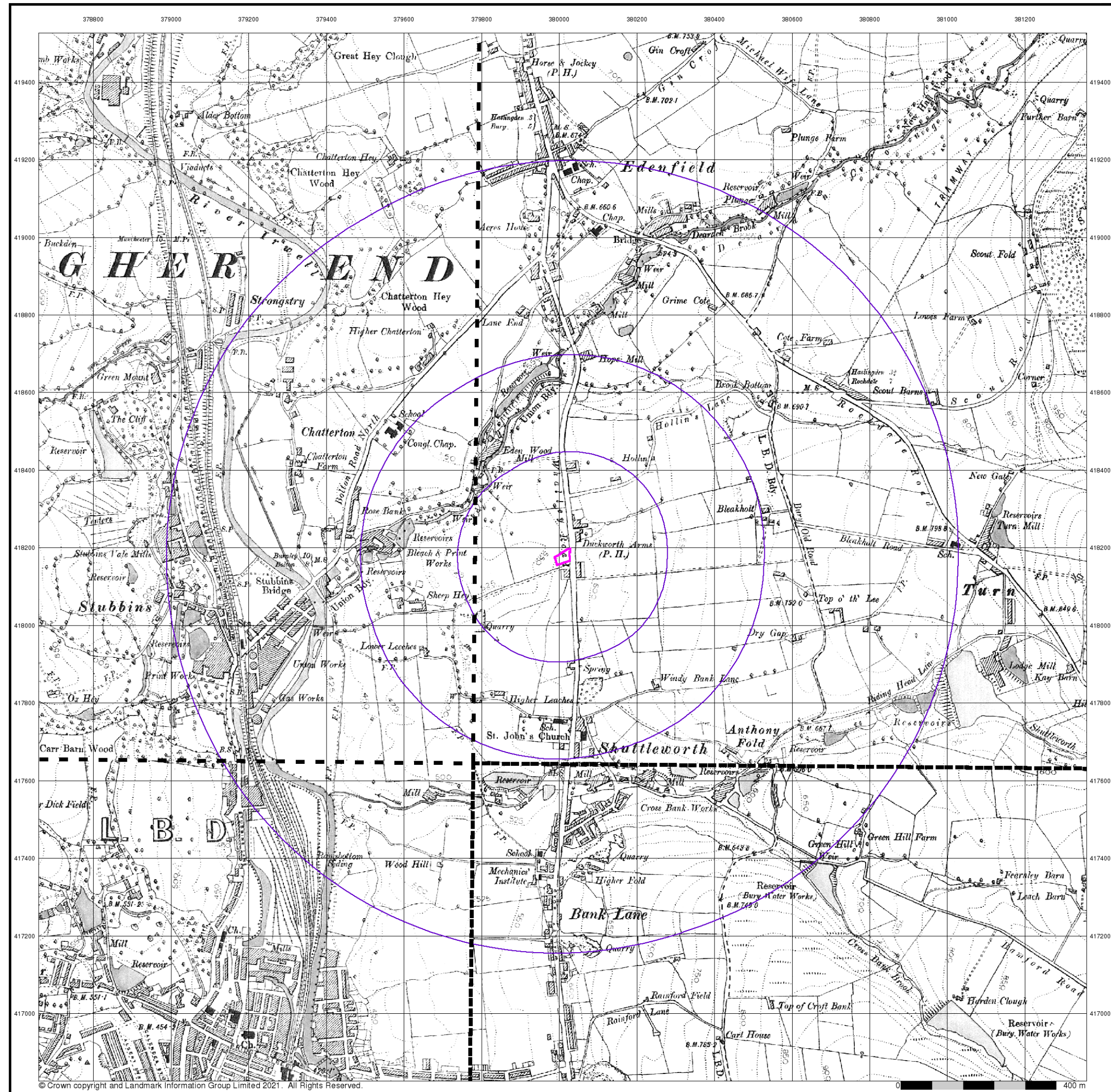
Order Number: 287431069_1_1
Customer Ref: LKC 21 1608
National Grid Reference: 380010, 418180
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 1000

Site Details

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LK GROUP

Lancashire And Furness

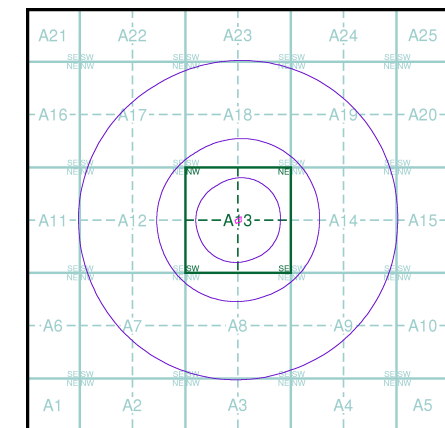
Published 1894 - 1895
Source map scale - 1:10,560

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)

079NE 1894 1:10,560	080NW 1895 1:10,560
079SE 1894 1:10,560	080SW 1894 1:10,560

Historical Map - Slice A



Order Details

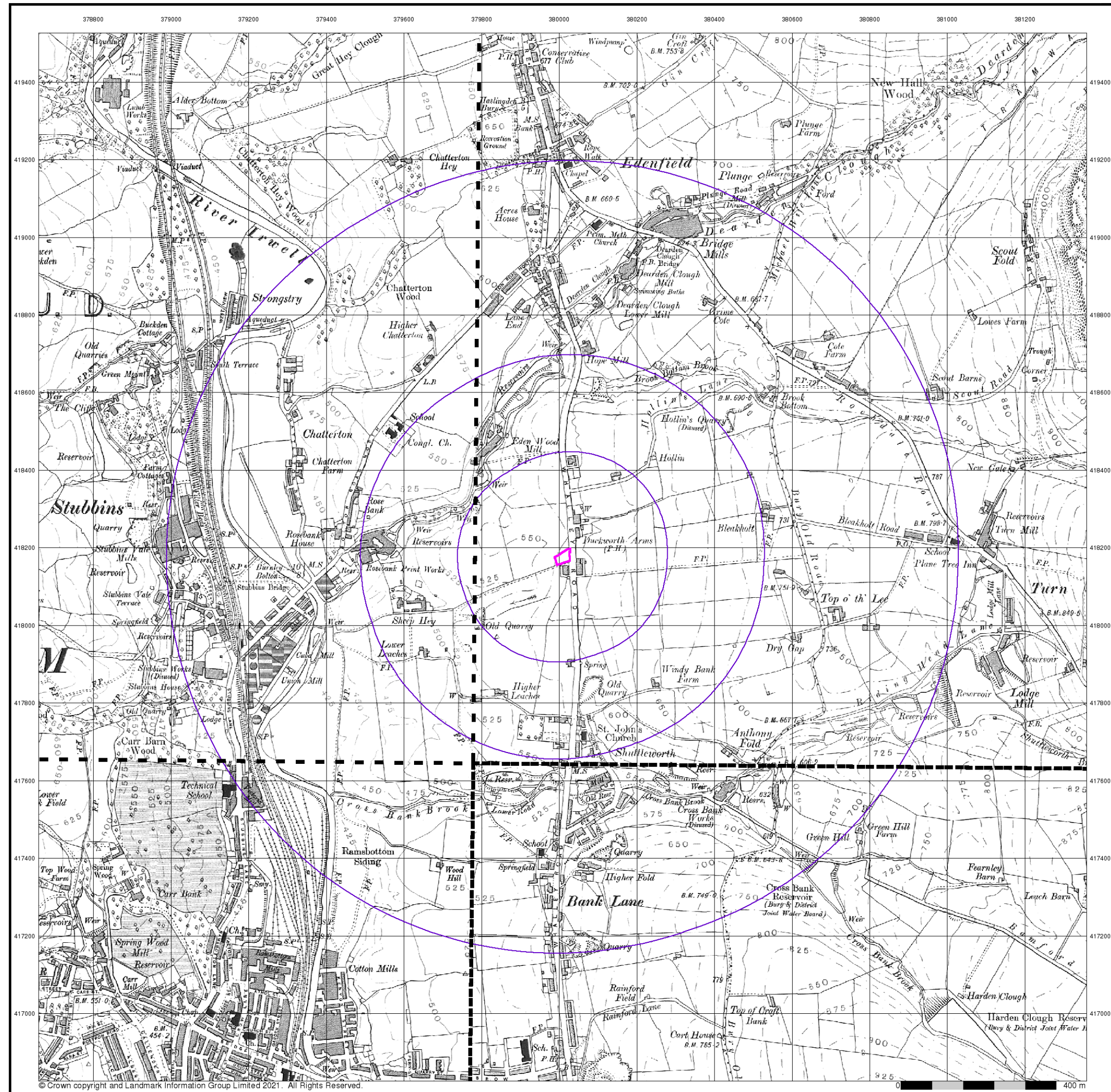
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LK GROUP

Lancashire And Furness

Published 1912

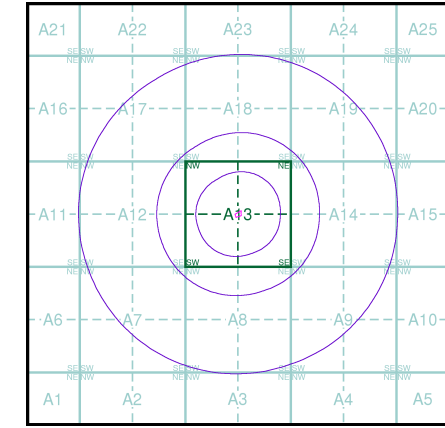
Source map scale - 1:10,560

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)

079NE 1912 1:10,560	080NW 1912 1:10,560
079SE 1912 1:10,560	080SW 1912 1:10,560

Historical Map - Slice A



Order Details

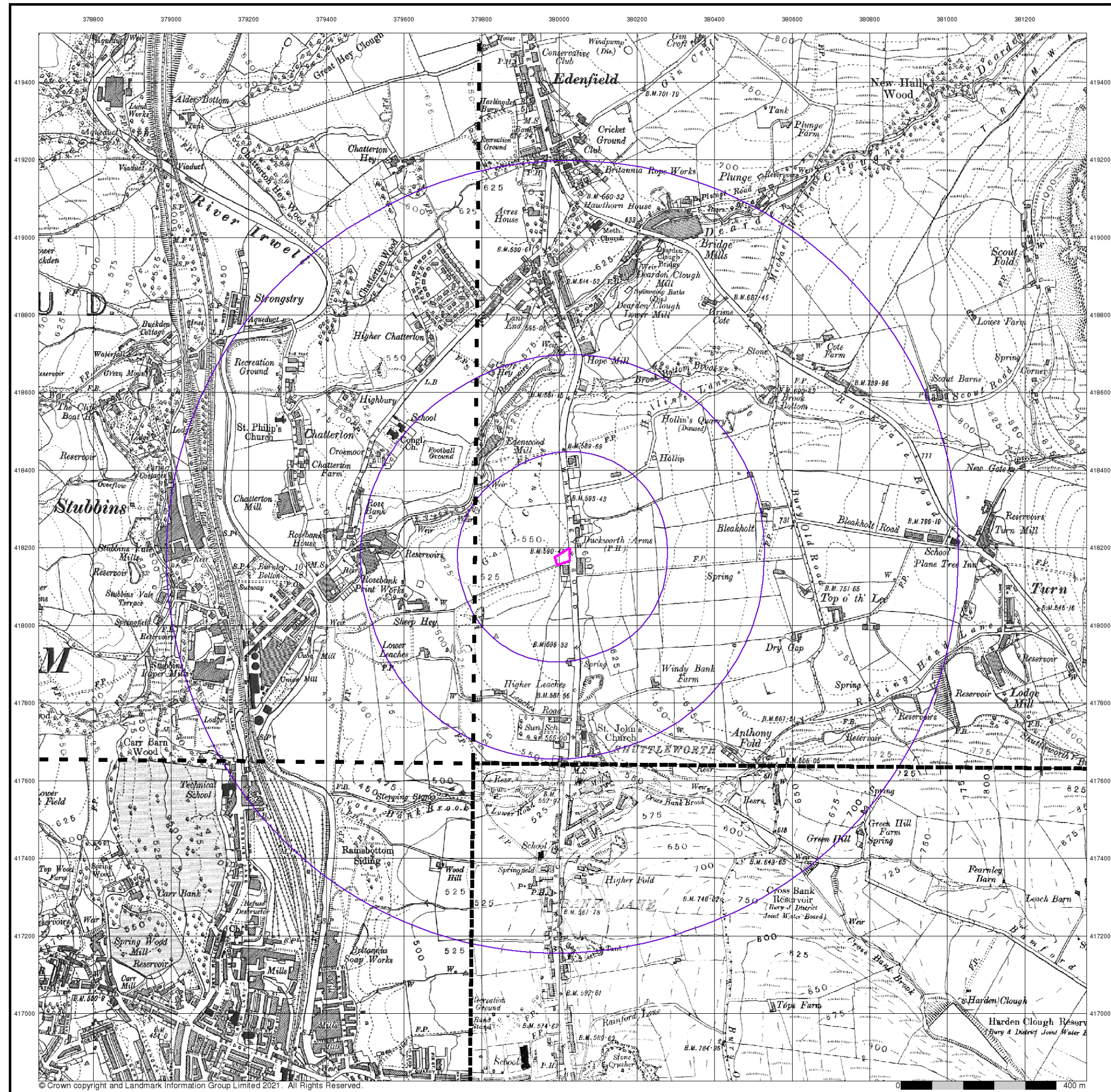
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National Grid Reference: 380010, 418180
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 1000

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Lancashire And Furness

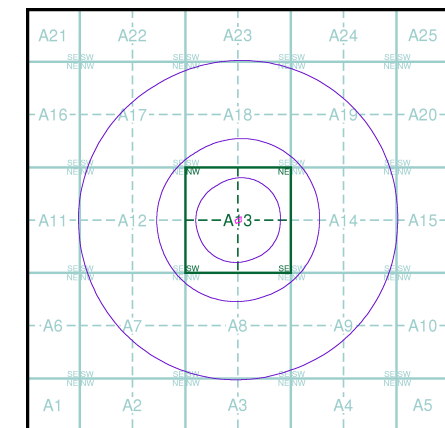
Published 1930
Source map scale - 1:10,560

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)

079NE 1930 1:10,560	080NW 1930 1:10,560
079SE 1930 1:10,560	080SW 1930 1:10,560

Historical Map - Slice A



Order Details

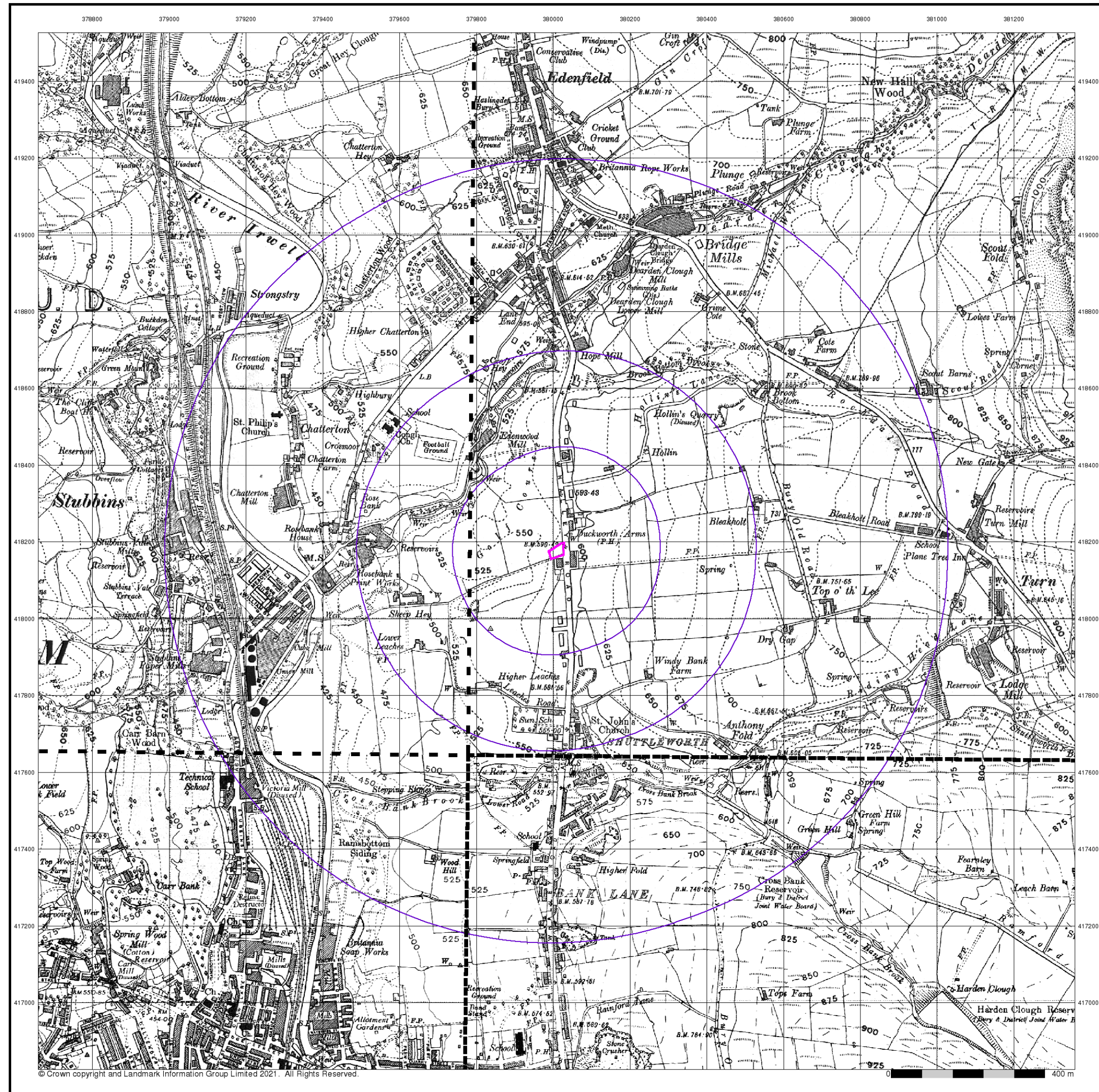
Order Number: 287431069_1_1
Customer Ref: LKC 21 1608
National Grid Reference: 380010, 418180
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 1000

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LK GROUP

Lancashire And Furness

Published 1938 - 1939

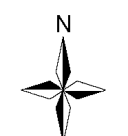
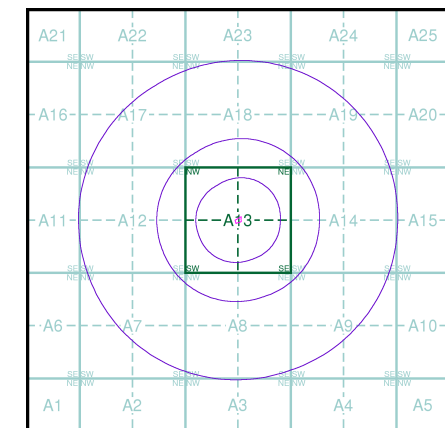
Source map scale - 1:10,560

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)

079NE 1938 1:10,560	080NW 1938 1:10,560
079SE 1939 1:10,560	080SW 1938 1:10,560

Historical Map - Slice A



Order Details

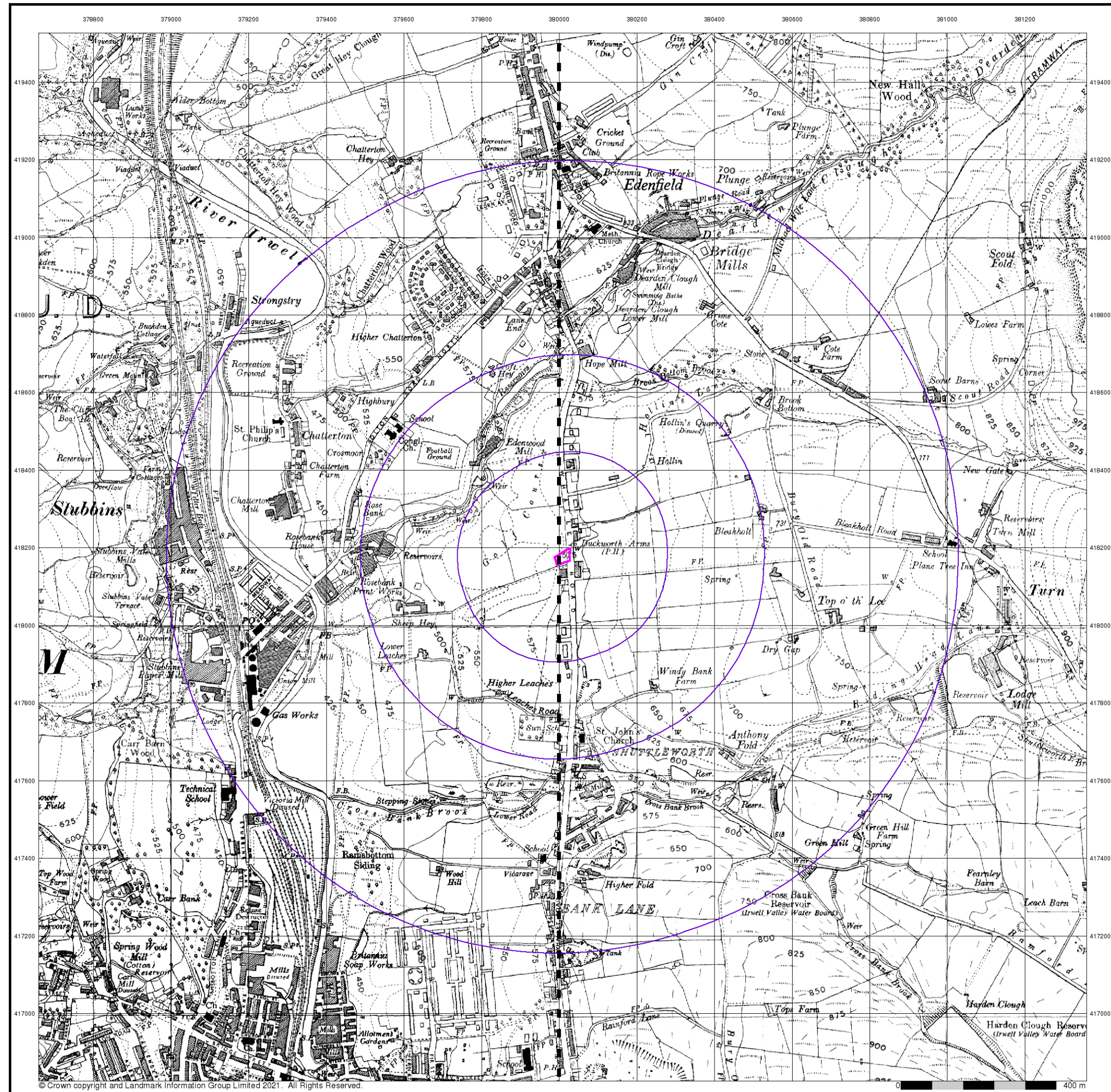
Order Number: 287431069_1_1
Customer Ref: LKC 21 1608
National Grid Reference: 380010, 418180
Slice: A
Site Area (Ha): 0.1
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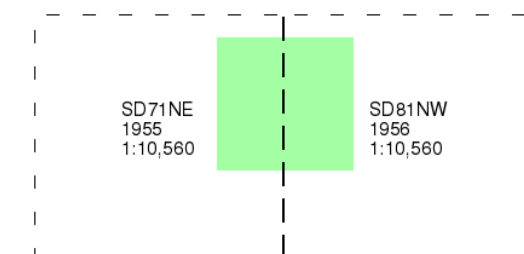
ORDNANCE SURVEY PLAN

Published 1955 - 1956

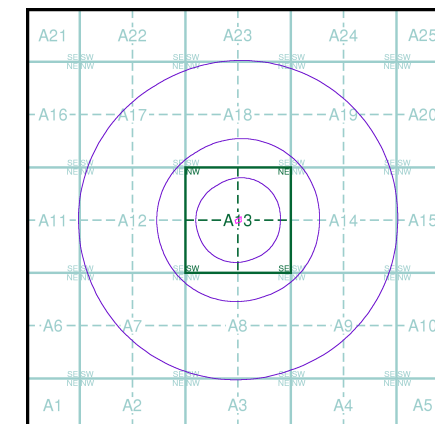
Source map scale - 1:10,000

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

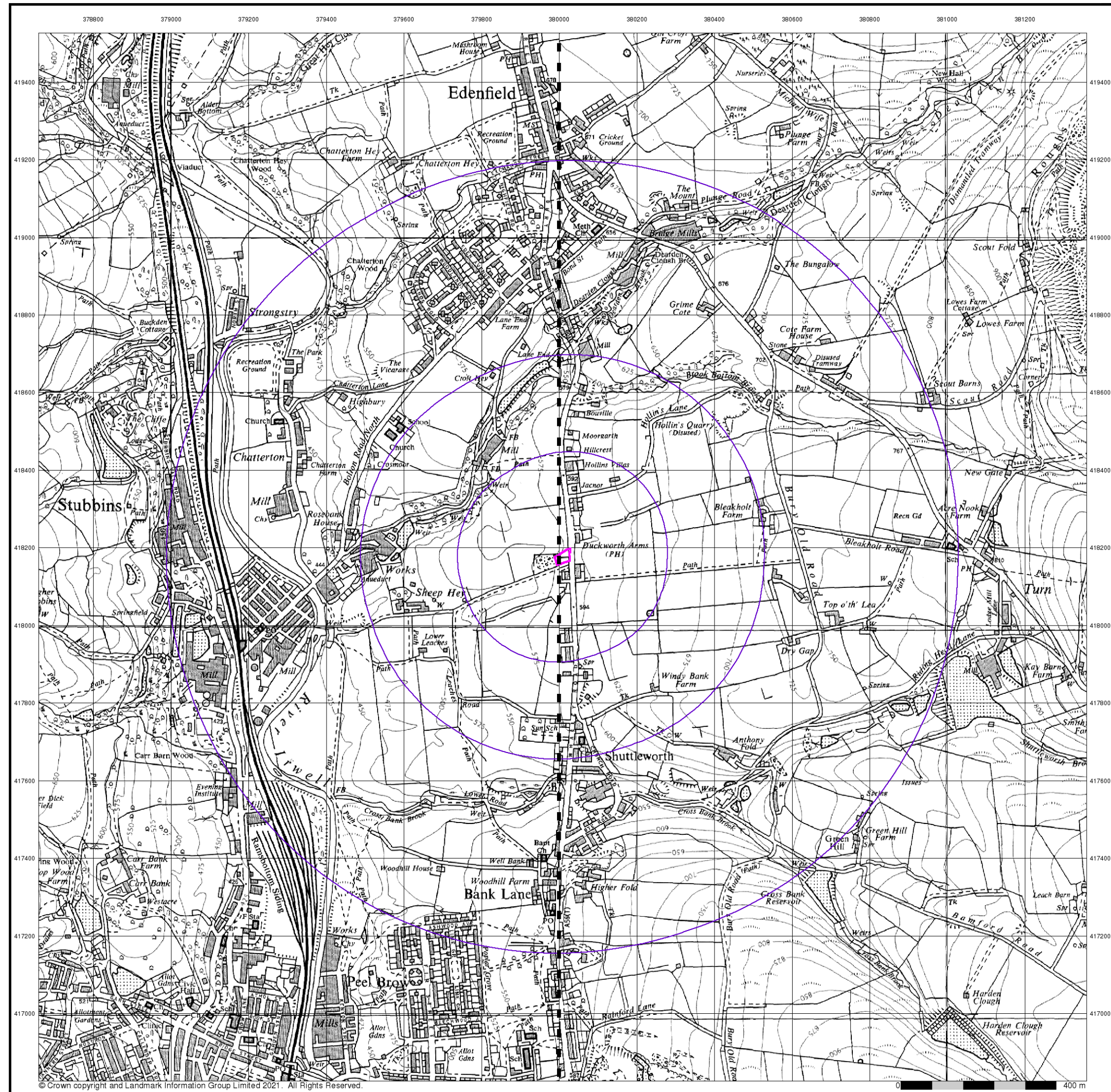
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Customer Ref: LKC 21 1608
National Grid Reference: 380010, 418180
Slice: A
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Search Buffer (m): 1000

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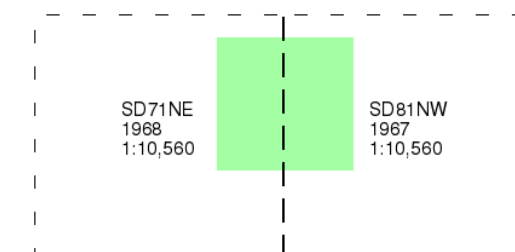
Ordnance Survey Plan

Published 1967 - 1968

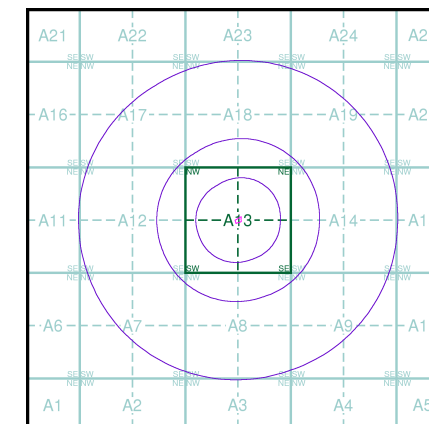
Source map scale - 1:10,000

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

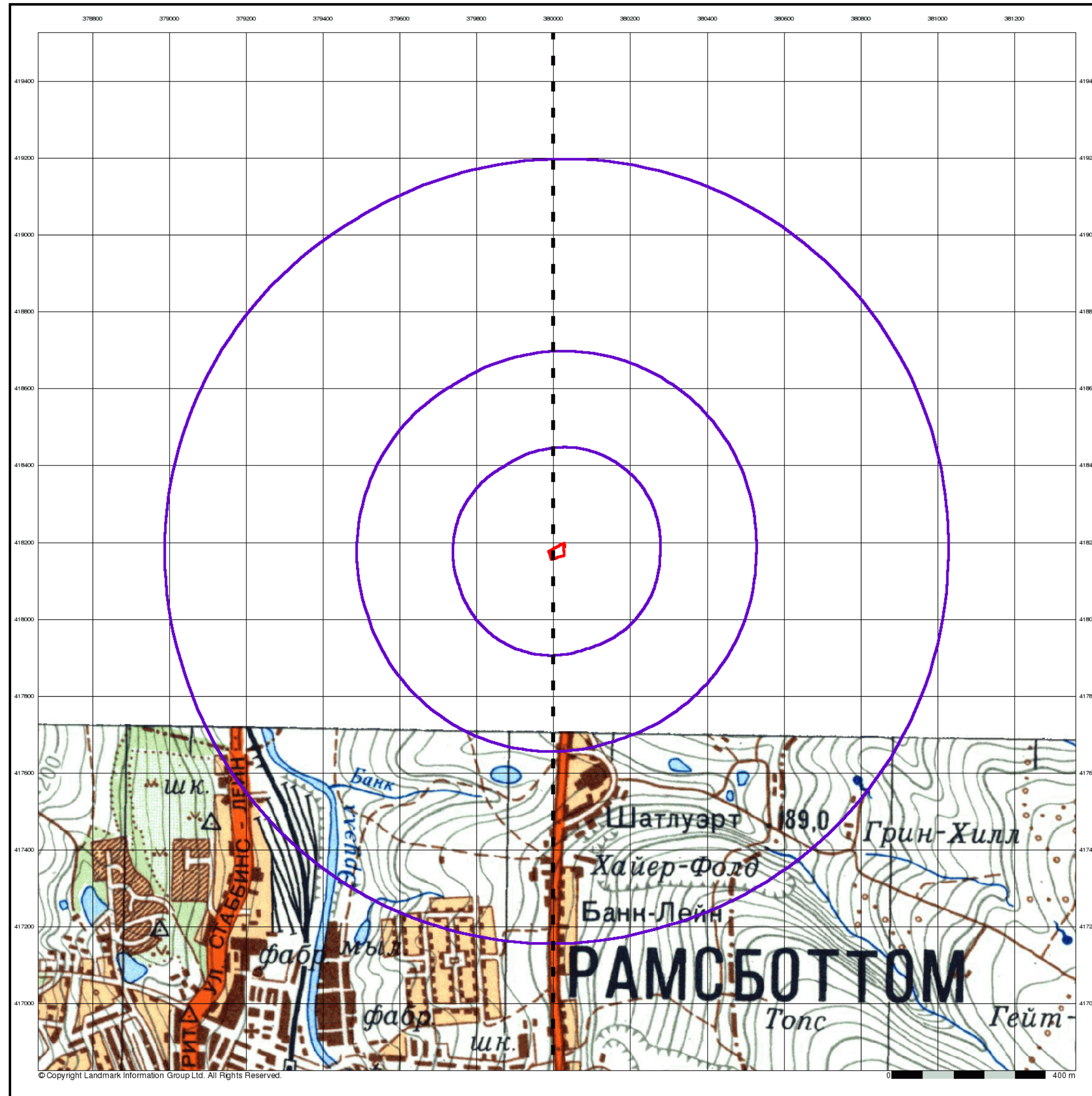
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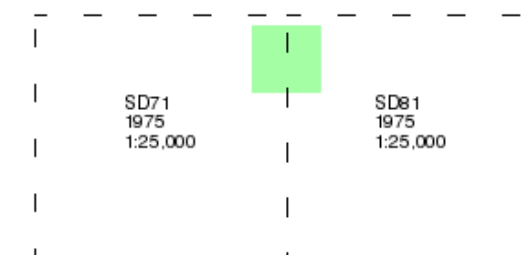
© Copyright Landmark Information Group Ltd. All Rights Reserved.

Published 1975

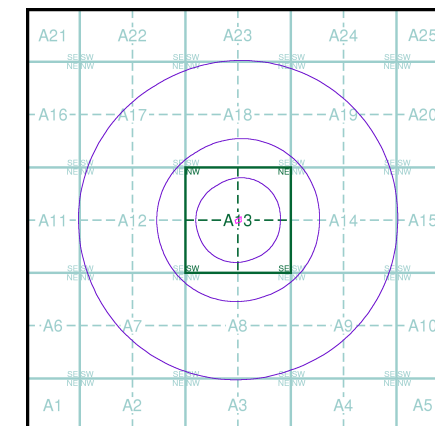
Source map scale - 1:25,000

These maps were produced by the Russian military during the Cold War between 1950 and 1997, and cover 103 towns and cities throughout the U.K. The maps are produced at 1:25,000, 1:10,000 and 1:5,000 scale, and show detailed land use, with colour-coded areas for development, green areas, and non-developed areas. Buildings are coloured black and important building uses (such as hospitals, post offices, factories etc.) are numbered, with a numbered key describing their use. They were produced by the Russians for the benefit of navigation, as well as strategic military sites and transport hubs, for use if they were to have invaded the U.K. The detailed information provided indicates that the areas were surveyed using land-based personnel, on the ground, in the cities that are mapped.

Map Name(s) and Date(s)



Russian Map - Slice A

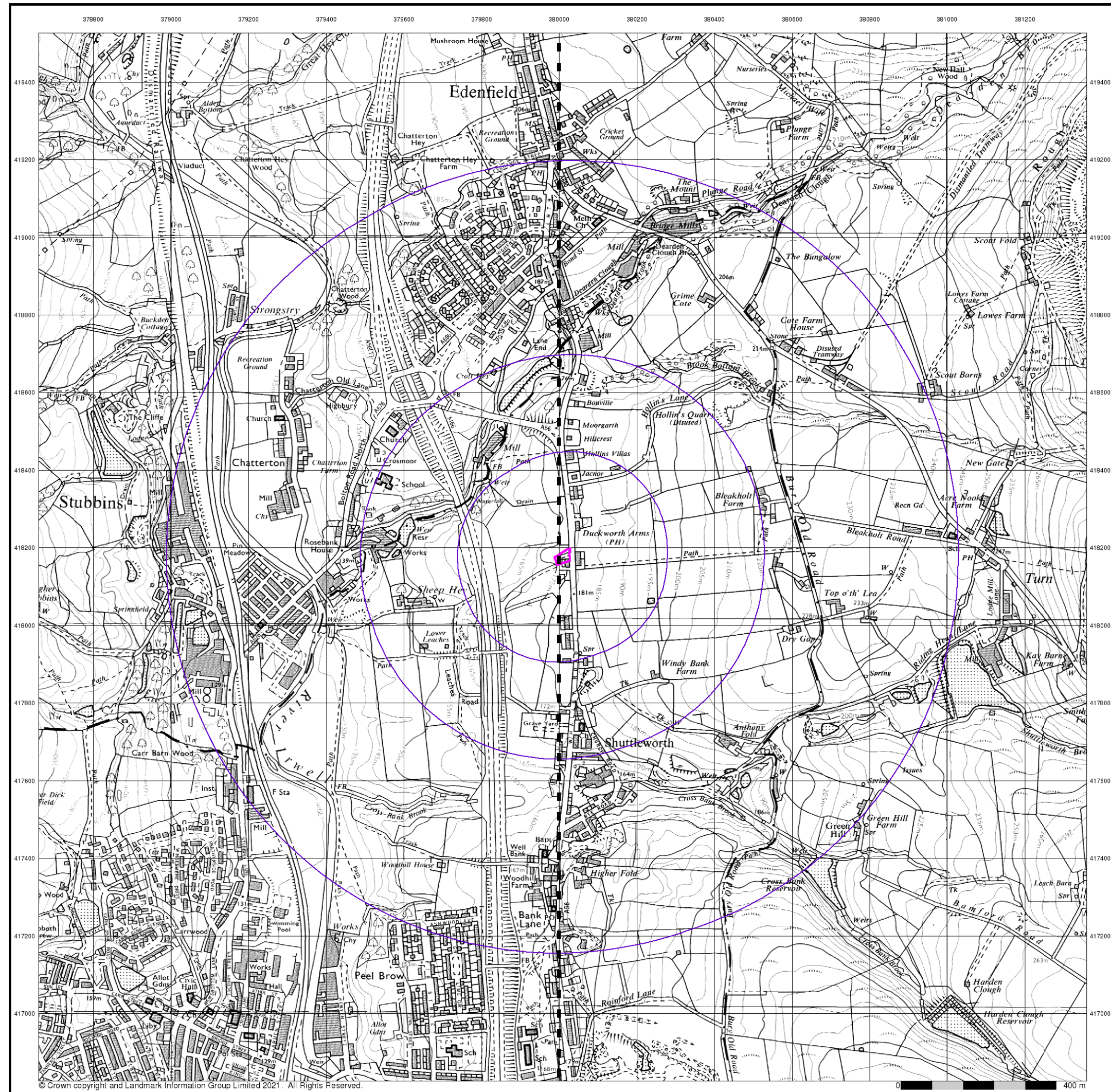


Order Details

Order Number: 287431069_1_1
Customer Ref: LKC 21 1608
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Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 1000

Site Details

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LK

GROUP

Ordnance Survey Plan

Published 1982 - 1987

Source map scale - 1:10,000

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Map Name(s) and Date(s)

SD71NE
1982
1:10,000

SD81NW
1987
1:10,000

Historical Map - Slice A

Order Details

Order Number:

287431069_1_1

Customer Ref:

LKC 21 1608

National Grid Reference:

380010, 418180

Slice:

A

Site Area (Ha):

0.1

Search Buffer (m):

1000

Site Details

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Landmark

INFORMATION GROUP

Tel:

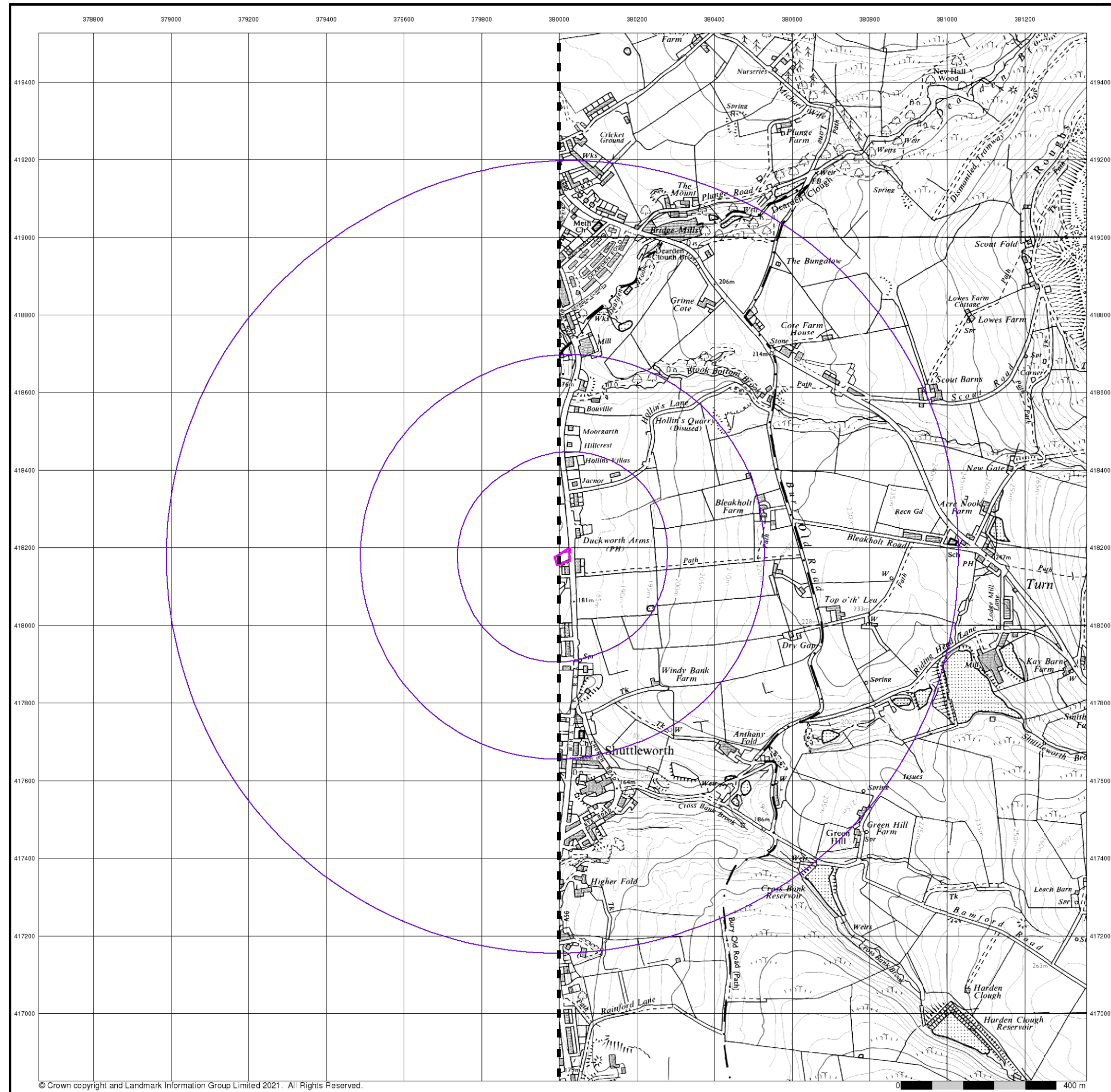
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Fax:

0844 844 9951

Web:

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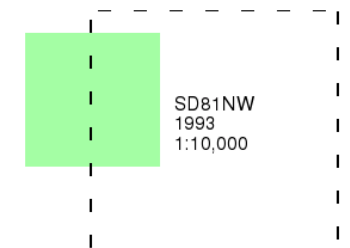
Ordnance Survey Plan

Published 1993

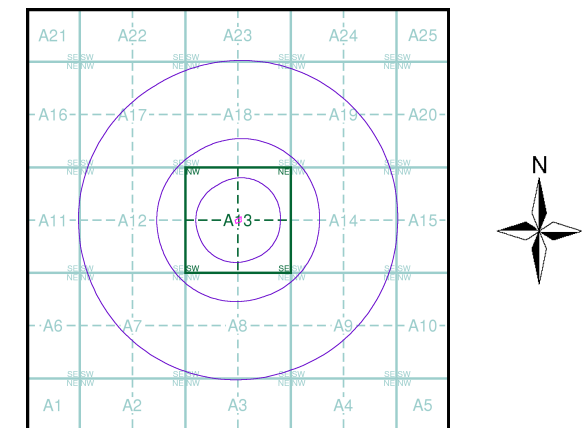
Source map scale - 1:10,000

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

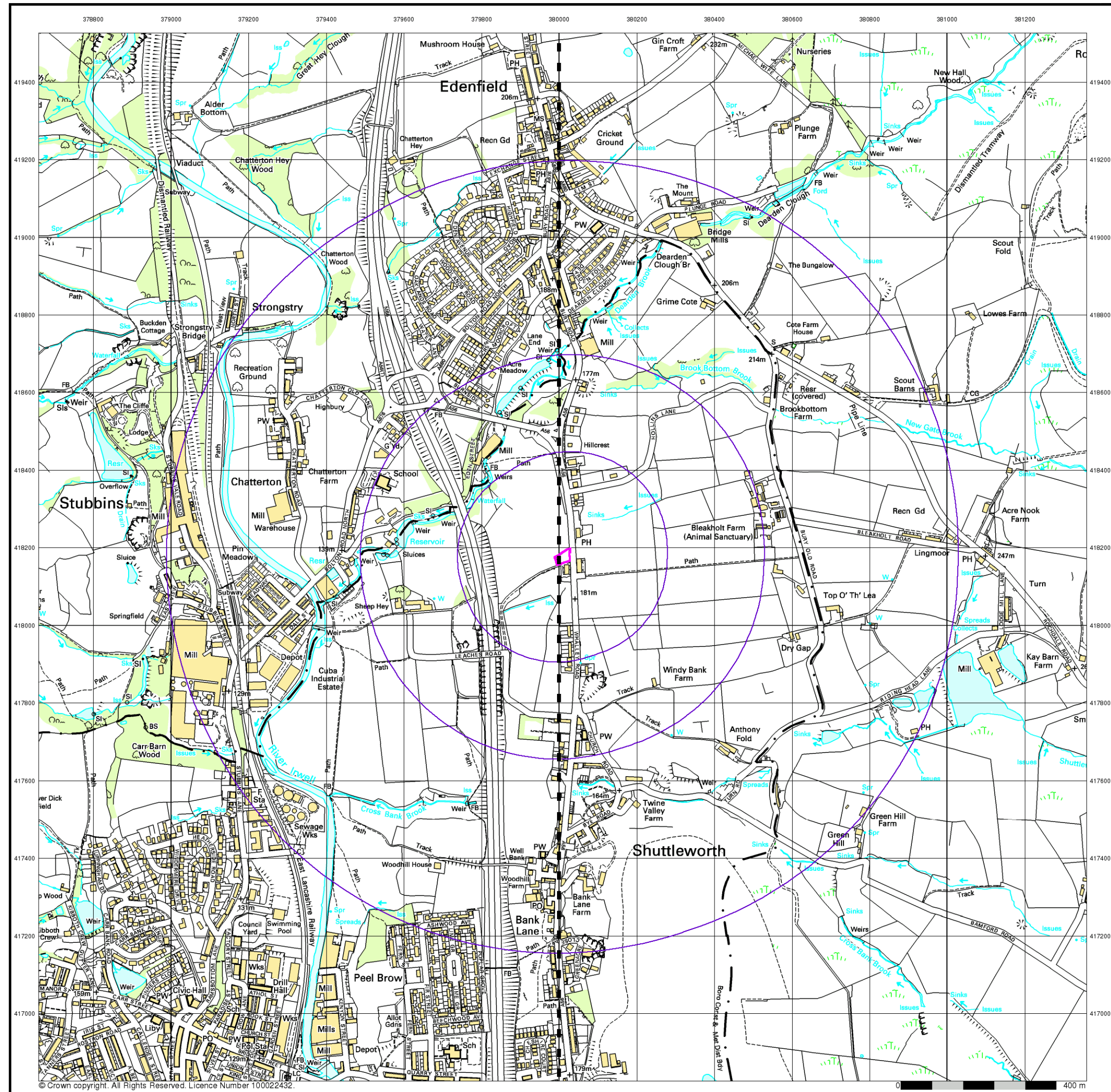
Order Number: 287431069_1_1
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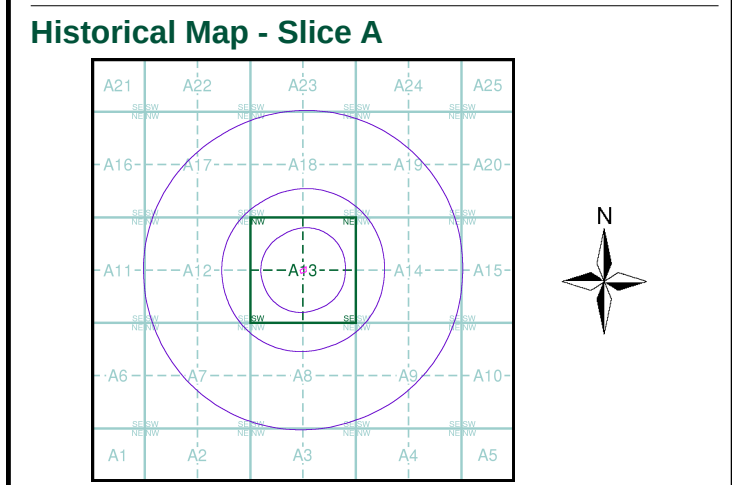
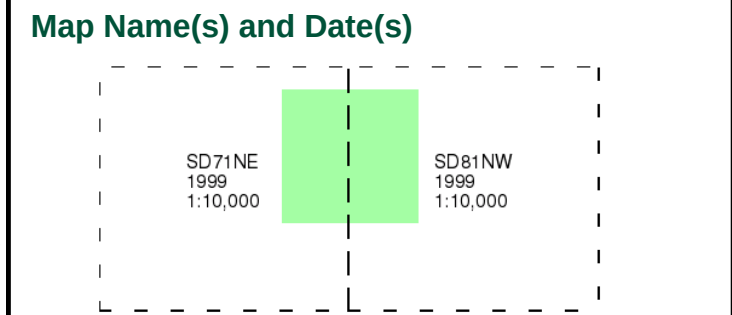
LK GROUP

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.

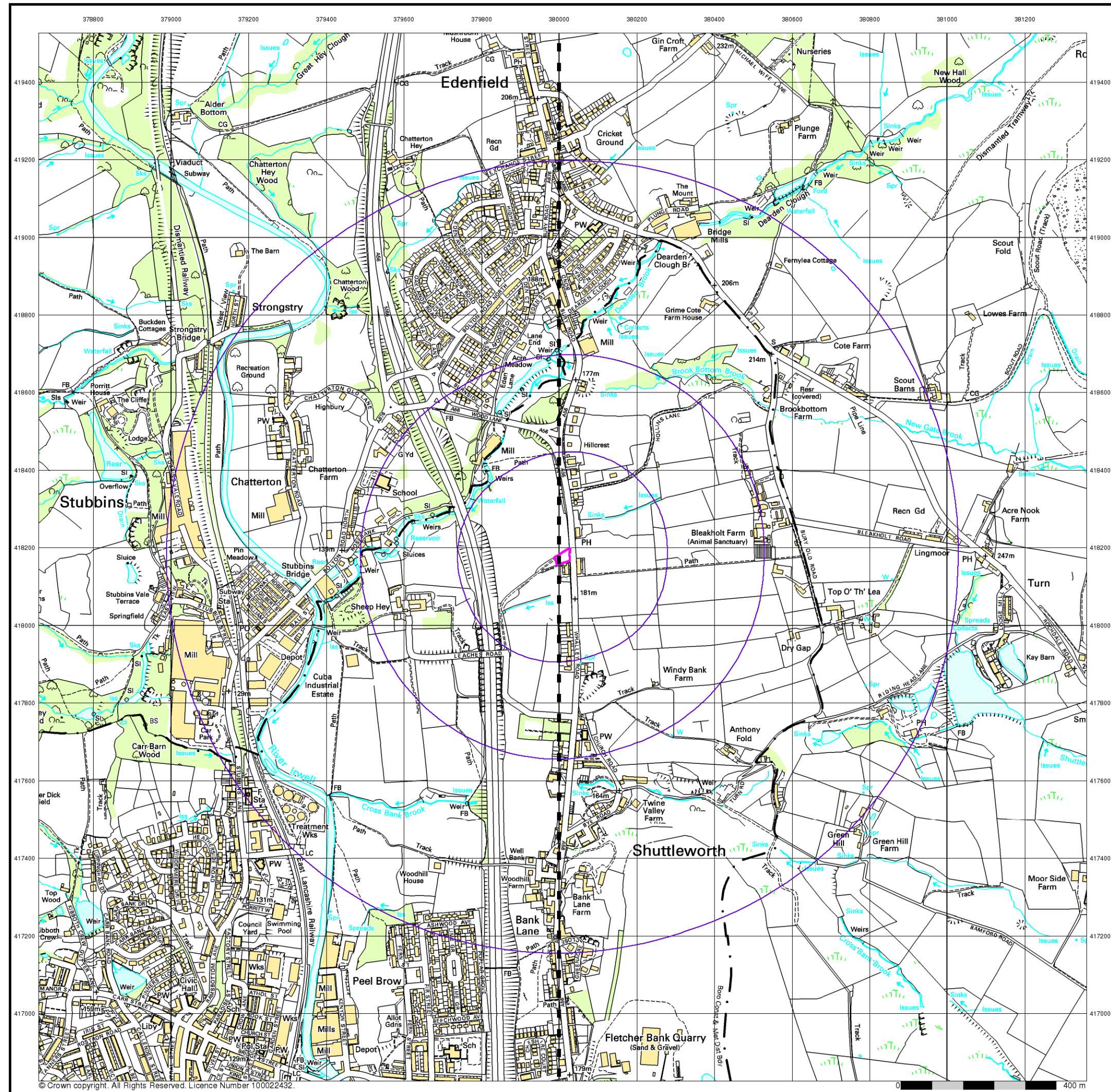


Order Details

Order Number: 287431069_1_1
Customer Ref: LKC 21 1608
National Grid Reference: 380010, 418180
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 1000

Site Details

Land adjacent to 391 Whalley Road, Ramsbottom, BURY, BL0 0ER



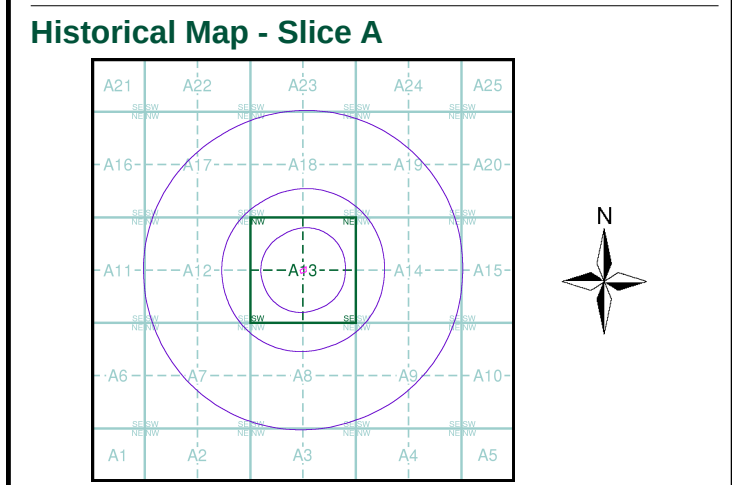
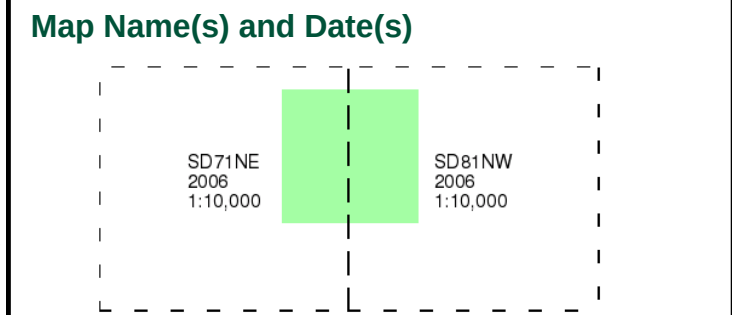
LK GROUP

10k Raster Mapping

Published 2006

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.



Order Details

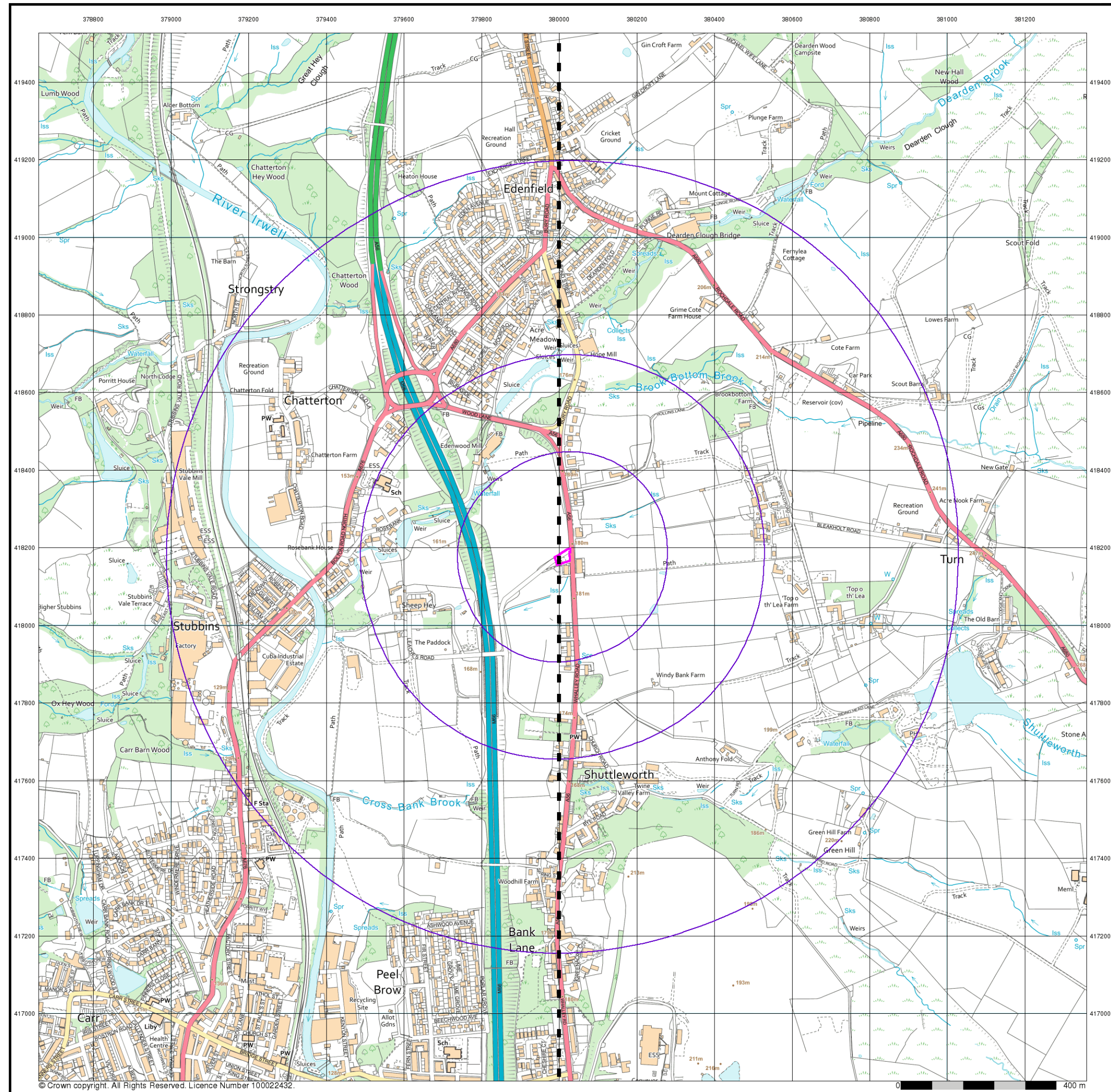
Order Number: 287431069_1_1
Customer Ref: LKC 21 1608
National Grid Reference: 380010, 418180
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 1000

Site Details

Land adjacent to 391 Whalley Road, Ramsbottom, BURY, BL0 0ER

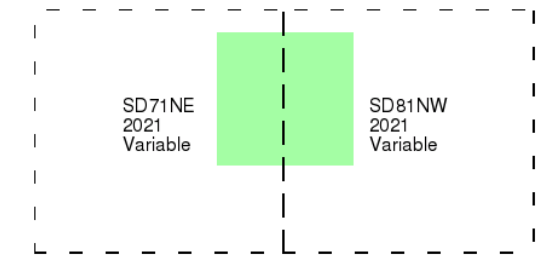
Landmark
INFORMATION GROUP

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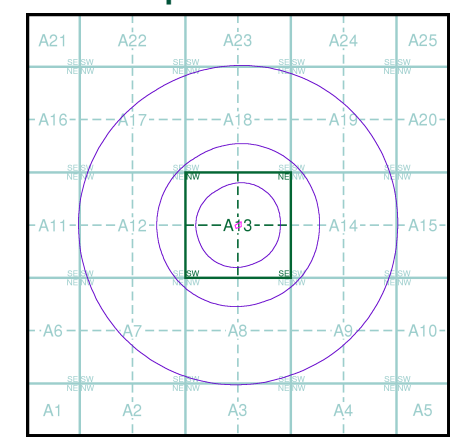


VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 287431069_1_1
Customer Ref: LKC 21 1608
National Grid Reference: 380010, 418180
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 1000

Site Details

Land adjacent to 391 Whalley Road, Ramsbottom, BURY, BL0 0ER

Appendix B

Envirocheck Report

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

287431069_1_1

Customer Reference:

LKC 21 1608

National Grid Reference:

380010, 418180

Slice:

A

Site Area (Ha):

0.1

Search Buffer (m):

1000

Site Details:

Land adjacent to 391 Whalley Road

Ramsbottom

BURY

BL0 0ER

Client Details:

L Consult

LK Consult Ltd

Unit 29 Eton Business Park

Eton Hill Road

Radcliffe

Greater Manchester

M26 2ZS

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	43
Hazardous Substances	-
Geological	47
Industrial Land Use	51
Sensitive Land Use	67
Data Currency	68
Data Suppliers	74
Useful Contacts	75

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	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 3			1	2
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls	pg 4				2
Integrated Pollution Prevention And Control	pg 4				7
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 6				1
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 6		Yes		
Pollution Incidents to Controlled Waters	pg 6		1	4	12
Prosecutions Relating to Authorised Processes	pg 9				1
Registered Radioactive Substances					
River Quality	pg 9		1		1
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points	pg 10				2
Substantiated Pollution Incident Register					
Water Abstractions	pg 11			3	12 (*55)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 29	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk			n/a	n/a	n/a
Groundwater Vulnerability - Local Information			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 29	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 29	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 29		Yes	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 30		4	25	84

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 43			3	5
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)	pg 44				1
Licensed Waste Management Facilities (Locations)	pg 44				1
Local Authority Landfill Coverage		1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 45		1	3	2
Potentially Infilled Land (Water)	pg 45			1	12
Registered Landfill Sites	pg 46				1
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 47	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 47	Yes		Yes	
BGS Recorded Mineral Sites	pg 47			4	6
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 49	Yes	n/a	n/a	n/a
Mining Instability	pg 49	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 49	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 49	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 49	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 50	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 50	Yes		n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 51			1	55
Fuel Station Entries					
Points of Interest - Commercial Services	pg 56			1	22
Points of Interest - Education and Health	pg 58				1
Points of Interest - Manufacturing and Production	pg 58			1	40
Points of Interest - Public Infrastructure	pg 61		1	18	31
Points of Interest - Recreational and Environmental	pg 65				5
Gas Pipelines					
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt	pg 67	1		2	
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					
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 (W)	0	1	380000 418176
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (N)	0	1	380011 418176
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (SW)	6	1	380000 418150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SE (S)	7	1	380011 418150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	16	1	380000 418200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (E)	21	1	380050 418176
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (N)	59	1	380000 418250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	116	1	379900 418250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	127	1	379950 418300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	153	1	379900 418300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (N)	156	1	380000 418350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	157	1	379850 418250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (N)	171	1	379950 418350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (NW)	186	1	379850 418300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	240	1	380200 418000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (N)	255	1	380000 418450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (E)	271	1	380300 418176
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (E)	281	1	380300 418100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	293	1	380150 417900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	293	1	379800 418400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (N)	303	1	380011 418500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (SE)	311	1	380250 417950

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (N)	313	1	379950 418500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	318	1	380200 417900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (S)	323	1	380100 417850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (E)	323	1	380350 418150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	328	1	379750 418400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	333	1	379800 418450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	337	1	379700 418350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (SE)	339	1	380150 417850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12NE (W)	347	1	379650 418250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (N)	353	1	380011 418550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	360	1	380050 417800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (NW)	364	1	379750 418450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	366	1	379700 418400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	371	1	380100 417800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (NE)	393	1	380200 418550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (NW)	398	1	379700 418450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12SE (SW)	402	1	379650 417950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A18SE (N)	403	1	380011 418600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (NW)	406	1	379650 418400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (S)	419	1	380100 417750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	423	1	379900 418600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (NW)	434	1	379700 418500

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	A18SW (N)	440	1	379850 418600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12NE (W)	445	1	379550 418250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (W)	445	1	379550 418100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (NE)	446	1	380300 418550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (N)	454	1	380050 418650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (W)	456	1	379550 418300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (N)	459	1	380100 418650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	468	1	380100 417700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (N)	469	1	380150 418650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (N)	471	1	379900 418650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (NW)	476	1	379600 418450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	481	1	380150 417700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (W)	494	1	379500 418250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (S)	497	1	380200 417700
1	Discharge Consents Operator: United Utilities Water Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Bolton Road North Sps Edenfield, Ramsbottom, Bury, Lancashire, BL0 0ly Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016982309 Permit Version: 1 Effective Date: 1st January 1900 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Dearden Brook Receiving Water: Dearden Brook Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A13NW (W)	290	2	379700 418200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	Discharge Consents Operator: Sterling Stubbins Mill Ltd Property Type: MAKING OF PAPER+PAPER PRODUCTS Location: Sterling Stubbins Ltd Stubbins Lane, Ramsbottom, Nr Bury, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016990076 Permit Version: 1 Effective Date: 1st January 1980 Issued Date: Not Supplied Revocation Date: 31st August 1989 Discharge Type: Trade Discharge - Process Water Discharge: Freshwater Stream/River Environment: Receiving Water: River Irwell Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	812	2	379270 417790
3	Discharge Consents Operator: Mr Varley Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: The Bungalow Michael Wifes La, Rochdale Rd, Edenfield, Lancashire, BL0 0rd Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 0166/287 Permit Version: 1 Effective Date: 30th June 1966 Issued Date: 30th June 1966 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Darwen Brook Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	908	2	380570 418925
4	Integrated Pollution Controls Name: Georgia Pacific Gb Ltd Location: Stubbins Lane, BURY, Lancashire, BL0 0NH Authority: Environment Agency, North West Region Permit Reference: BD4996 Dated: 24th November 1998 Process Type: IPC minor (non-substantial) variation to previous variation Description: 6.1 A (A) Paper and Pulp manufacturing processes within Miscellaneous Industries Status: Revoked - Now IPPC Positional Accuracy: Manually positioned to the road within the address or location	A7NW (W)	913	2	379146 417822
4	Integrated Pollution Controls Name: Georgia Pacific Gb Ltd Location: Stubbins Lane, Ramsbottom, BURY, Lancashire, BL0 0NH Authority: Environment Agency, North West Region Permit Reference: AU8601 Dated: 27th July 1998 Process Type: IPC new application Description: 6.1 A (A) Paper and Pulp manufacturing processes within Miscellaneous Industries Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Manually positioned to the road within the address or location	A7NW (SW)	929	2	379147 417776
5	Integrated Pollution Prevention And Control Name: Sca Hygiene Products Tissue Limited Location: Stubbins Mill, Stubbins Lane, Ramsbottom,, BURY, Lancashire, BL0 0NH Authority: Environment Agency, North West Region Permit Reference: HP3331EL Original Permit Ref: Mp3331cx Effective Date: 28th February 2014 Status: Superseded By Variation Application Type: Variation App. Sub Type: Minor Positional Accuracy: Located by supplier to within 100m Activity Code: 6.1 A(1) (B) Activity Description: Paper, Pulp And Board; Producing Paper/Board Greater Than 20T/D Primary Activity: Y Activity Code: 5.4 A(1) a) (i) Activity Description: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Primary Activity: N	A12SW (W)	930	2	379100 417900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	Integrated Pollution Prevention And Control Name: Sca Hygiene Products Tissue Limited Location: Stubbins Mill, Stubbins Lane, Ramsbottom,, BURY, Lancashire, BL0 0NH Authority: Environment Agency, North West Region Permit Reference: MP3331CX Original Permit Ref: Mp3331cx Effective Date: 20th July 2012 Status: Superseded By Variation Application Type: Transfer App. Sub Type: Whole limited change in management Positional Accuracy: Located by supplier to within 100m Activity Code: 6.1 A(1) (B) Activity Description: Paper, Pulp And Board; Producing Paper/Board Greater Than 20T/D Primary Activity: Y	A12SW (W)	930	2	379100 417900
5	Integrated Pollution Prevention And Control Name: Essity Uk Limited Location: Stubbins Mill - Epr/Lp3636ww, Stubbins Mill, Stubbins Lane,, Ramsbottom, Lancashire, BL0 0NH Authority: Environment Agency, North West Region Permit Reference: BP3031JD Original Permit Ref: Lp3636ww Effective Date: 14th March 2018 Status: Effective Application Type: Variation App. Sub Type: Minor Positional Accuracy: Automatically positioned to the address Activity Code: 6.1 A(1) (B) Activity Description: Paper, Pulp And Board; Producing Paper/Board Greater Than 20T/D Primary Activity: Y Activity Code: 5.4 A(1) a) (i) Activity Description: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Primary Activity: N Activity Code: 6.1 A(1) (B) Activity Description: Paper, Pulp And Board; Producing Paper/Board Greater Than 20T/D Primary Activity: N Activity Code: 6.1 A(1) (A) Activity Description: Paper, Pulp And Board; Producing Pulp From Timber Etc Primary Activity: N	A12SW (W)	972	2	379053 417911
5	Integrated Pollution Prevention And Control Name: Sca Hygiene Products Uk Limited Location: Stubbins Mill, STUBBINS LANE,, RAMSBOTTOM,, BURY, LANCASHIRE, BL0 0NH Authority: Environment Agency, North West Region Permit Reference: VP3534AQ Original Permit Ref: Lp3636ww Effective Date: 29th July 2016 Status: Superseded By Variation Application Type: Variation App. Sub Type: Standard Positional Accuracy: Automatically positioned to the address Activity Code: 5.4 A(1) a) (i) Activity Description: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Primary Activity: N Activity Code: 6.1 A(1) (B) Activity Description: Paper, Pulp And Board; Producing Paper/Board Greater Than 20T/D Primary Activity: N Activity Code: 6.1 A(1) (B) Activity Description: Paper, Pulp And Board; Producing Paper/Board Greater Than 20T/D Primary Activity: Y	A12SW (W)	972	2	379053 417911

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	Integrated Pollution Prevention And Control Name: Sca Hygiene Products Uk Limited Location: Stubbins Mill, STUBBINS LANE,, RAMSBOTTOM,, BURY, LANCASHIRE, BL0 0NH Authority: Environment Agency, North West Region Permit Reference: LP3636WW Original Permit Ref: Lp3636ww Effective Date: 18th December 2014 Status: Superseded By Variation Application Type: Transfer App. Sub Type: Whole limited change in management Positional Accuracy: Automatically positioned to the address Activity Code: 6.1 A(1) (B) Activity Description: Paper, Pulp And Board; Producing Paper/Board Greater Than 20T/D Primary Activity: N Activity Code: 6.1 A(1) (B) Activity Description: Paper, Pulp And Board; Producing Paper/Board Greater Than 20T/D Primary Activity: Y Activity Code: 5.4 A(1) a) (i) Activity Description: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Primary Activity: N	A12SW (W)	972	2	379053 417911
5	Integrated Pollution Prevention And Control Name: Georgia-Pacific Gb Limited Location: Fort James Uk Limited, Stubbins Lane, Ramsbottom,, BURY, Lancashire, BL0 0NH Authority: Environment Agency, North West Region Permit Reference: NP3830FA Original Permit Ref: Bj6534is Effective Date: 14th November 2011 Status: Superseded By Variation Application Type: Variation App. Sub Type: Minor Positional Accuracy: Automatically positioned to the address Activity Code: 6.1 A(1) (B) Activity Description: Paper, Pulp And Board; Producing Paper/Board Greater Than 20T/D Primary Activity: Y	A12SW (W)	973	2	379053 417911
5	Integrated Pollution Prevention And Control Name: Georgia-Pacific Gb Limited Location: Fort James Uk Limited, Stubbins Lane, Ramsbottom, Bury, Lancashire, BL0 0NH Authority: Environment Agency, North West Region Permit Reference: Bj6534is Original Permit Ref: Bj6534is Effective Date: 25th November 2002 Status: Superseded By Variation Application Type: Application App. Sub Type: New Positional Accuracy: Automatically positioned to the address Activity Code: 6.1 A(1) (B) Activity Description: Paper, Pulp And Board; Producing Paper/Board Greater Than 20T/D Primary Activity: Y	A12SW (W)	973	2	379053 417911
6	Local Authority Pollution Prevention and Controls Name: Fort James Ltd Location: Stubbins Lane, RAMSBOTTOM, Lancashire, BL0 0 Authority: Rossendale Borough Council, Environmental Health Department Permit Reference: Av8601 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG6/18 Paper coating Status: Not Supplied Positional Accuracy: Manually positioned to the address or location	A12SW (W)	973	3	379052 417911
	Nearest Surface Water Feature	A13SE (S)	38	-	380023 418126
7	Pollution Incidents to Controlled Waters Property Type: Connection To Surface Drains Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Organic Wastes: Other Note: Dearden Brook; Kitchen Waste Incident Date: 23rd November 1995 Incident Reference: 95622846 Catchment Area: Irwell Receiving Water: Not Given Cause of Incident: Wrong Connection Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NE (NE)	126	2	380100 418300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	Pollution Incidents to Controlled Waters Property Type: Textile industry Location: Smell Of Sulphated Hydrogen, Dearden Brook Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Unknown Note: Dearden Brook; Not Known Incident Date: 14th October 1997 Incident Reference: 97621786 Catchment Area: Irwell Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	366	2	379700 418400
9	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Other Oil Note: Dearden Brook Incident Date: 30th June 1995 Incident Reference: 95621607 Catchment Area: Irwell Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NE (W)	408	2	379600 418300
10	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Other Fuel Oil Note: Dearden Brook Incident Date: 1st February 1995 Incident Reference: 95620205 Catchment Area: Irwell 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)	434	2	379700 418500
11	Pollution Incidents to Controlled Waters Property Type: Connection To Surface Drains Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Crude Sewage Note: Dearden Brook Tributary Incident Date: 9th March 1994 Incident Reference: 94620445 Catchment Area: Irwell Receiving Water: Not Given Cause of Incident: Wrong Connection Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A18SW (NW)	461	2	379800 418600
12	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Chemicals - Detergents/Surfactant Note: Dearden Brook Incident Date: 9th August 1994 Incident Reference: 94621823 Catchment Area: Irwell Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SE (W)	519	2	379500 418000
13	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Other Oil Note: River Irwell Incident Date: 7th October 1995 Incident Reference: 95622488 Catchment Area: Irwell Receiving Water: Not Given Cause of Incident: Mechanical Failure Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A12SE (W)	594	2	379400 418100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Lancashire Authority: Environment Agency, North West Region Pollutant: Unknown Note: Dearden Brook; No Pollution Found Incident Date: 20th October 1995 Incident Reference: 95622583 Catchment Area: Irwell Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NE (W)	602	2	379400 418300
15	Pollution Incidents to Controlled Waters Property Type: Restaurant/Hotels/Pubs Location: Shuttleworth Near, RAMSBOTTOM Authority: Environment Agency, North West Region Pollutant: Crude Sewage Note: Crude Sewage And Debris; Cross Bark Brook; Crude Sewage And Debris Incident Date: 27th March 1997 Incident Reference: 97620522 Catchment Area: Irwell Receiving Water: Freshwater Stream/River Cause of Incident: Blocked Sewer Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A8NE (SE)	629	2	380300 417600
16	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Greater Manchester Authority: Environment Agency, North West Region Pollutant: Unknown Note: Cross Bank Bk; No Pollution Found Incident Date: 21st February 1995 Incident Reference: 95620359 Catchment Area: Irwell Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	678	2	380400 417600
17	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Lancashire Authority: Environment Agency, North West Region Pollutant: Unknown Note: Dearden Brook; None Pollution Found Incident Date: 23rd November 1994 Incident Reference: 94622550 Catchment Area: Irwell Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18SW (NW)	685	2	379700 418800
18	Pollution Incidents to Controlled Waters Property Type: No Premises Identified Location: River Irwell, A676, STUBBI Authority: Environment Agency, North West Region Pollutant: Organic Chemicals : Mineral & Synthetic Oils Note: Not Supplied Incident Date: 6th January 1999 Incident Reference: 368 Catchment Area: Irwell Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Approximate location provided by supplier	A7NE (SW)	694	2	379400 417800
19	Pollution Incidents to Controlled Waters Property Type: Agriculture: Land / Fields Location: Twine Cottages, Shuttleworth, RAMSBOTTOM, Greater Manchester Authority: Environment Agency, North West Region Pollutant: Mixed Construction / Demolition Waste Note: Not Supplied Incident Date: 24th August 1999 Incident Reference: 31702 Catchment Area: Irwell Receiving Water: River Stretch (Freshwater) Cause of Incident: Unauthorised Activity : Other Activity Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m	A9NE (SE)	766	2	380700 417800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
20	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Sewage Treatment Works Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Sewage - Treated Effluent Note: River Irwell Incident Date: 15th August 1995 Incident Reference: 95622095 Catchment Area: Irwell 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	A17SW (NW)	866	2	379300 418700
21	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Diesel (Including Agricultural) Note: River Irwell Incident Date: 12th August 1995 Incident Reference: 95622068 Catchment Area: Irwell Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	873	2	379200 417795
22	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Lancashire Authority: Environment Agency, North West Region Pollutant: Unknown Note: No Pollution Found Incident Date: 28th January 1996 Incident Reference: 96620169 Catchment Area: Irwell Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NW (W)	889	2	379100 418200
23	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Greater Manchester Authority: Environment Agency, North West Region Pollutant: Unknown Note: River Irwell; No Pollution Found Incident Date: 17th October 1995 Incident Reference: 95622558 Catchment Area: Irwell Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Unknown	A19NE (NE)	972	2	380700 418900
24	Prosecutions Relating to Authorised Processes Location: Cuba Industrial Estate, Bolton Road North, Stubbins, Ramsbottom, B10 One Prosecution Text: Illegally storing waste without a WML Prosecution Act: Epa90 S33(1)(A) & (B) Hearing Date: 4th March 2005 Verdict: Guilty Fine: 12000 Costs: 2500 Positional Accuracy: Manually positioned within the geographical locality	A12SW (W)	821	2	379227 417866
	River Quality Name: Dearden Bk GQA Grade: River Quality B Reach: QSl At Scout Moor Resvr. To Irwell Estimated Distance (km): 4.2 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A13NW (NW)	217	2	379805 418292

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	River Quality Name: Irwell GQA Grade: River Quality C Reach: Rossendale Stw To Chest Wheel Bridge Estimated Distance (km): 9.2 Flow Rate: Flow less than 5 cumecs Flow Type: River Year: 2000	A12SE (W)	673	2	379335 418019
25	River Quality Chemistry Sampling Points Name: Dearden Brook Reach: QSI At Scout Moor Reservoir To Irwell Estimated Distance: 4.20 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: Not Supplied Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2009 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied	A12SE (W)	599	2	379401 418060

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	River Quality Chemistry Sampling Points Name: Irwell Reach: Rossendale Sewage Treatment Works To Chest Wheel Bridge Estimated Distance: 9.20 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2009 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied	A12SE (W)	633	2	379361 418097
27	Water Abstractions Operator: Turnbull & Stockdale Ltd Licence Number: 2569001179 Permit Version: 100 Location: Reservoir At Premises, Edenwood Mill, Ramsbottom Authority: Environment Agency, North West Region Abstraction: Textiles And Leather: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 1091 Yearly Rate (m3): 218208 Details: Edenwood Mill, Ramsbottom Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 22nd January 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	376	2	379800 418500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
28	Water Abstractions Operator: Edward Turnbull & Co Ltd Licence Number: 2569001180 Permit Version: 101 Location: Reservoir At Rosebank Printworks Ramsbottom Near Bury Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises, Bleach Croft Mill,Ramsbottom Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 22nd January 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A12NE (W)	489	2	379500 418200
28	Water Abstractions Operator: Edward Turnbull & Co Ltd Licence Number: 2569001180 Permit Version: 100 Location: Reservoir At Rosebank Printworks, Ramsbottom, Near Bury Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 1964 Yearly Rate (m3): 547793 Details: Premises, Bleach Croft Mill,Ramsbottom Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 1993 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A12NE (W)	489	2	379500 418200
29	Water Abstractions Operator: Edward Turnbull & Co Ltd Licence Number: 2569001086 Permit Version: 101 Location: Borehole At Premises Rosebank Printworks Ramsbottom Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises Croft Bleach Works Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 22nd January 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A12SE (W)	614	2	379400 418000
29	Water Abstractions Operator: Edward Turnbull & Co Ltd Licence Number: 2569001086 Permit Version: 100 Location: Borehole At Premises, Rosebank Printworks, Ramsbottom, Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 1091 Yearly Rate (m3): 13638 Details: Premises Croft Bleach Works Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 27th January 1981 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A12SE (W)	614	2	379400 418000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
30	Water Abstractions Operator: Marshalls Mono Ltd Licence Number: 2569001199 Permit Version: 101 Location: Cross Bank Brk At Ramsbottom, Bury Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Ramsbottom, Bury Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 28th August 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	764	2	380400 417500
30	Water Abstractions Operator: Marshalls Mono Ltd Licence Number: 2569001199 Permit Version: 100 Location: Cross Bank Brk At Ramsbottom, Bury Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 136 Yearly Rate (m3): 34096 Details: Premises At Ramsbottom, Bury Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 18th February 1987 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	764	2	380400 417500
31	Water Abstractions Operator: Essity Uk Limited Licence Number: 2569001201 Permit Version: 105 Location: River Irwell At 'A' At Stubbins, Ramsbottom, Bury. Authority: Environment Agency, North West Region Abstraction: Paper And Printing: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 19th March 2018 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	844	2	379246 417768
31	Water Abstractions Operator: Sca Hygiene Products Uk Ltd Licence Number: 2569001201 Permit Version: 104 Location: River Irwell At 'A' At Stubbins, Ramsbottom, Bury. Authority: Environment Agency, North West Region Abstraction: Paper And Printing: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 8th July 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	844	2	379246 417768

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
31	Water Abstractions Operator: Sca Hygiene Products Tissue Limited Licence Number: 2569001201 Permit Version: 103 Location: River Irwell At 'A' At Stubbins, Ramsbottom, Bury. Authority: Environment Agency, North West Region Abstraction: Paper And Printing: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 8th November 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	844	2	379246 417768
32	Water Abstractions Operator: Sca Hygiene Products Tissue Limited Licence Number: 2569001201 Permit Version: 102 Location: R Irwell At Ramsbottom, Bury Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Stubbins, Ramsbottom Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 13th August 2012 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	871	2	379200 417800
32	Water Abstractions Operator: Georgia-Pacific Gb Ltd Licence Number: 2569001201 Permit Version: 101 Location: R Irwell At Ramsbottom, Bury Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Stubbins, Ramsbottom Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 2nd April 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	871	2	379200 417800
32	Water Abstractions Operator: Fort James Uk Ltd Licence Number: 2569001201 Permit Version: 100 Location: R Irwell At Ramsbottom, Bury Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 11365 Yearly Rate (m3): 4159680 Details: Premises At Stubbins, Ramsbottom Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st January 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	871	2	379200 417800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
33	Water Abstractions Operator: North West Water Authority Licence Number: 2569001183 Permit Version: Not Supplied Location: River Irwell, RAMSBOTTOM Authority: Environment Agency, North West Region Abstraction: Monitoring Water Quantity Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 700 Yearly Rate (m3): 25000 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	A17SW (NW)	930	2	379300 418800
34	Water Abstractions Operator: B & J Ovenden Licence Number: 2569001099 Permit Version: 100 Location: Spring Fed Catchpit At Top O'Th' Lee And Dry Gap Farms, S Authority: Environment Agency, North West Region Abstraction: General Agriculture; General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 8 Yearly Rate (m3): 2741 Details: Top O' Th' Lee And Dry Gap Farms Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 19th January 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A14SE (E)	975	2	381000 418100
	Water Abstractions Operator: Sca Hygiene Products Tissue Limited Licence Number: 2569001128 Permit Version: 102 Location: Reservoirs X 2 Fed By Surface Drainage At Stubbins Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Stubbins Paper Mill, Ramsbottom Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 13th August 2012 Permit End Date: Not Supplied Positional Accuracy: Approximate location provided by supplier	A12SW (W)	1004	2	379000 418000
	Water Abstractions Operator: Georgia-Pacific Gb Ltd Licence Number: 2569001128 Permit Version: 101 Location: Reservoirs X 2 Fed By Surface Drainage At Stubbins Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Stubbins Paper Mill, Ramsbottom Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 2nd April 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12SW (W)	1004	2	379000 418000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Fort James Uk Ltd Licence Number: 2569001128 Permit Version: 100 Location: Reservoirs (2) Fed By Surface Drainage At Stubbin\$85 Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Stubbins Paper Mill, Ramsbottom Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st January 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A12SW (W)	1004	2	379000 418000
	Water Abstractions Operator: Essity Uk Limited Licence Number: 2569001129 Permit Version: 105 Location: Borehole A' At Stubbins Paper Mill, Ramsbottom. Authority: Environment Agency, North West Region Abstraction: Paper And Printing: Process Water 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: 19th March 2018 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12SW (W)	1017	2	379012 417892
	Water Abstractions Operator: Sca Hygiene Products Uk Ltd Licence Number: 2569001129 Permit Version: 104 Location: Borehole A' At Stubbins Paper Mill, Ramsbottom. Authority: Environment Agency, North West Region Abstraction: Paper And Printing: Process Water 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: 8th July 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12SW (W)	1017	2	379012 417892
	Water Abstractions Operator: Sca Hygiene Products Tissue Limited Licence Number: 2569001129 Permit Version: 103 Location: Borehole A' At Stubbins Paper Mill, Ramsbottom. Authority: Environment Agency, North West Region Abstraction: Paper And Printing: Process Water 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: 8th November 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12SW (W)	1017	2	379012 417892

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Sca Hygiene Products Tissue Limited Licence Number: 2569001129 Permit Version: 102 Location: Borehole At Stubbins Paper Mill, Ramsbottom Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Stubbins Paper Mill, Ramsbottom Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 13th August 2012 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A12SW (W)	1026	2	379000 417900
	Water Abstractions Operator: Georgia-Pacific Gb Ltd Licence Number: 2569001129 Permit Version: 101 Location: Borehole At Stubbins Paper Mill, Ramsbottom Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Stubbins Paper Mill, Ramsbottom Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 2nd April 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12SW (W)	1026	2	379000 417900
	Water Abstractions Operator: Fort James Uk Ltd Licence Number: 2569001129 Permit Version: 100 Location: Borehole At Stubbins Paper Mill, Ramsbottom Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 2728 Yearly Rate (m3): 545520 Details: Stubbins Paper Mill, Ramsbottom Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st January 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A12SW (W)	1026	2	379000 417900
	Water Abstractions Operator: Essity Uk Limited Licence Number: 2569001128 Permit Version: 106 Location: Reservoir 'C' At Subbins, Ramsbottom, Bury. Authority: Environment Agency, North West Region Abstraction: Paper And Printing: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 19th March 2018 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A11SE (W)	1076	2	378938 417943

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Sca Hygiene Products Uk Ltd Licence Number: 2569001128 Permit Version: 105 Location: Reservoir 'C' At Subbins, Ramsbottom, Bury. Authority: Environment Agency, North West Region Abstraction: Paper And Printing: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 8th July 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A11SE (W)	1076	2	378938 417943
	Water Abstractions Operator: Sca Hygiene Products Tissue Limited Licence Number: 2569001128 Permit Version: 103 Location: Reservoir 'C' At Subbins, Ramsbottom, Bury. Authority: Environment Agency, North West Region Abstraction: Paper And Printing: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 8th November 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A11SE (W)	1076	2	378938 417943
	Water Abstractions Operator: Essity Uk Limited Licence Number: 2569001128 Permit Version: 106 Location: Reservoir 'B' At Subbins, Ramsbottom, Bury. Authority: Environment Agency, North West Region Abstraction: Paper And Printing: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 19th March 2018 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A11SE (W)	1099	2	378930 417882
	Water Abstractions Operator: Sca Hygiene Products Uk Ltd Licence Number: 2569001128 Permit Version: 105 Location: Reservoir 'B' At Subbins, Ramsbottom, Bury. Authority: Environment Agency, North West Region Abstraction: Paper And Printing: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 8th July 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A11SE (W)	1099	2	378930 417882

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Sca Hygiene Products Tissue Limited Licence Number: 2569001128 Permit Version: 103 Location: Reservoir 'B' At Subbins, Ramsbottom, Bury. Authority: Environment Agency, North West Region Abstraction: Paper And Printing: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 8th November 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A11SE (W)	1099	2	378930 417882
	Water Abstractions Operator: M B Tomaszewski Licence Number: 2569001012 Permit Version: 100 Location: Reservoir Fed By New Gate Brk And Field Drainage, Adjacent Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Boiler Feed Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 11 Yearly Rate (m3): 3982 Details: Cotton Spinning Mill Premises, Turn Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 8th January 1991 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A15SW (E)	1203	2	381200 417900
	Water Abstractions Operator: Kays Ramsbottom Ltd Licence Number: 2569001047 Permit Version: 100 Location: River Irwell At Britannia Works Kenyon Street Ramsbottom Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: General Cooling (Existing Licences Only) (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises, Britannia Works Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 27th September 1995 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A2NE (SW)	1212	2	379400 417100
	Water Abstractions Operator: Kays Ramsbottom Ltd Licence Number: 2569001047 Permit Version: 100 Location: River Irwell At Britannia Works Kenyon Street Ramsbottom Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Boiler Feed Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 636 Yearly Rate (m3): 159111 Details: Premises, Britannia Works Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 27th September 1995 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A2NE (SW)	1212	2	379400 417100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Voith Fabrics Stubbins Ltd Licence Number: 2569001110 Permit Version: 101 Location: Reservoir Fed By Unnamed Tributary River Irwell Stubbins Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 1136 Yearly Rate (m3): 272766 Details: Premises At Stubbins Vale Mills Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 27th September 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A11NE (W)	1232	2	378800 418500
	Water Abstractions Operator: Sca Hygiene Products Tissue Limited Licence Number: 2569001128 Permit Version: 102 Location: Reservoirs X 2 Fed By Surface Drainage At Stubbins Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Stubbins Paper Mill, Ramsbottom Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 13th August 2012 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A6NE (W)	1247	2	378800 417800
	Water Abstractions Operator: Georgia-Pacific Gb Ltd Licence Number: 2569001128 Permit Version: 101 Location: Reservoirs X 2 Fed By Surface Drainage At Stubbins Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Stubbins Paper Mill, Ramsbottom Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 2nd April 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A6NE (W)	1247	2	378800 417800
	Water Abstractions Operator: Fort James Uk Ltd Licence Number: 2569001128 Permit Version: 100 Location: Reservoirs (2) Fed By Surface Drainage At Stubbins Pap Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 5682 Yearly Rate (m3): 1704750 Details: Stubbins Paper Mill, Ramsbottom Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st January 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A6NE (W)	1247	2	378800 417800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Sca Hygiene Products Tissue Limited Licence Number: 2569001128 Permit Version: 103 Location: Reservoirs 'A' At Stubbins, Ramsbottom, Bury Authority: Environment Agency, North West Region Abstraction: Paper And Printing: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 8th November 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A6NE (W)	1270	2	378785 417771
	Water Abstractions Operator: B & J Ovenden Licence Number: 2569001100 Permit Version: 100 Location: Spring Fed Catchpit At Green Hill Farm, Shuttleworth, Rams Authority: Environment Agency, North West Region Abstraction: General Agriculture; General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 4 Yearly Rate (m3): 1496 Details: Green Hill Farm, Shuttleworth Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 19th January 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A10SW (SE)	1318	2	381100 417400
	Water Abstractions Operator: Voith Paper Fabrics Stubbins Ltd Licence Number: 2569001110 Permit Version: 102 Location: Un-Named Tributary River Irwell At Lh Premises Stubbins Vale Authority: Environment Agency, North West Region Abstraction: Amenity: Lake And Pond Throughflow Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Lh Premises At Stubbins Vale Mills Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 17th February 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A16SE (W)	1322	2	378730 418580
	Water Abstractions Operator: Bury Metropolitan Borough Council Licence Number: 2569001246 Permit Version: 100 Location: River Irwell At Bridge Street Ramsbottom Authority: Environment Agency, North West Region Abstraction: Amenity: Supply to a Leat for Throughflow Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 172920 Yearly Rate (m3): 63115200 Details: Land At Bridge St , Ramsbottom Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th August 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A2NE (SW)	1457	2	379350 416850

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Mondi Holcombe Limited Licence Number: 2569001224 Permit Version: 103 Location: R.Inwell At Ramsbottom Authority: Environment Agency, North West Region Abstraction: Paper And Printing: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Holcombe Paper Mill,Peel Bridge Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th August 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A2SW (SW)	1524	2	379300 416800
	Water Abstractions Operator: Mondi Holcombe Limited Licence Number: 2569001029 Permit Version: 105 Location: Goit Fed By Surface Drainage And River Inwell At Ramsbottom Authority: Environment Agency, North West Region Abstraction: Paper And Printing: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Peel Bridge Mills Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th August 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A2SW (SW)	1524	2	379300 416800
	Water Abstractions Operator: Mondi Packaging Holcombe Limited Licence Number: 2569001029 Permit Version: 104 Location: Goit Fed By Surface Drainage And River Inwell At Ramsbottom Authority: Environment Agency, North West Region Abstraction: Paper And Printing: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Peel Bridge Mills Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 29th September 2005 Permit End Date: 31st March 2015 Positional Accuracy: Located by supplier to within 100m	A2SW (SW)	1524	2	379300 416800
	Water Abstractions Operator: Mondi Packaging Holcombe Limited Licence Number: 2569001224 Permit Version: 102 Location: R.Inwell At Ramsbottom Authority: Environment Agency, North West Region Abstraction: Paper And Printing: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Holcombe Paper Mill,Peel Bridge Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 29th September 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A2SW (SW)	1524	2	379300 416800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Mondi Paper Limited Licence Number: 2569001029 Permit Version: 103 Location: Goit Fed By Surface Drainage And River Irwell At Ramsbottom Authority: Environment Agency, North West Region Abstraction: Paper And Printing: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Peel Bridge Mills Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 17th November 2004 Permit End Date: 31st March 2015 Positional Accuracy: Located by supplier to within 100m	A2SW (SW)	1524	2	379300 416800
	Water Abstractions Operator: Mondi Paper Limited Licence Number: 2569001029 Permit Version: 102 Location: R.Irwell At Ramsbottom Authority: Environment Agency, North West Region Abstraction: Paper And Printing: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Peel Bridge Mills Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th September 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A2SW (SW)	1524	2	379300 416800
	Water Abstractions Operator: Mondi Paper Limited Licence Number: 2569001029 Permit Version: 102 Location: Goit Fed By Surface Drainage And River Irwell At Ramsbottom Authority: Environment Agency, North West Region Abstraction: Paper And Printing: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Peel Bridge Mills Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th September 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A2SW (SW)	1524	2	379300 416800
	Water Abstractions Operator: Mondi Paper Limited Licence Number: 2569001224 Permit Version: 101 Location: R.Irwell At Ramsbottom Authority: Environment Agency, North West Region Abstraction: Paper And Printing: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Holcombe Paper Mill, Peel Bridge Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th September 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A2SW (SW)	1524	2	379300 416800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Danisco Paper Ltd Licence Number: 2569001224 Permit Version: 100 Location: R.Irwell At Ramsbottom Authority: Environment Agency, North West Region Abstraction: Paper And Printing: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 1091 Yearly Rate (m3): 90920 Details: Holcombe Paper Mill, Peel Bridge Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 21st September 1995 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A2SW (SW)	1524	2	379300 416800
	Water Abstractions Operator: Danisco Paper Ltd Licence Number: 2569001029 Permit Version: 101 Location: Goit Fed By Surface Drainage And River Irwell At Ramsbottom Authority: Environment Agency, North West Region Abstraction: Paper And Printing: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 1637 Yearly Rate (m3): 272766 Details: Premises At Peel Bridge Mills Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 21st August 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A2SW (SW)	1528	2	379300 416795
	Water Abstractions Operator: Scapa-Porritt Ltd. Licence Number: 2569001006 Permit Version: Not Supplied Location: Spring Fed Collecting Chamber, Stubbins, RAMSBOTTOM Authority: Environment Agency, North West Region Abstraction: Private Water Supplies (Domestic) Abstraction Type: Not Supplied Source: Spring Daily Rate (m3): 25 Yearly Rate (m3): 8437 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	A6NW (W)	1563	2	378500 417700
	Water Abstractions Operator: Marshalls Mono Ltd Licence Number: 2569001287 Permit Version: 2 Location: Scout Moor Quarry Borehole 3 Authority: Environment Agency, North West Region Abstraction: Mineral Products: Process Water 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 January Authorised End: 31 December Permit Start Date: 15th October 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A20SE (E)	1581	2	381520 418720

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Marshalls Plc Licence Number: 2569001287 Permit Version: 1 Location: Scout Moor Quarry Borehole 3 Authority: Environment Agency, North West Region Abstraction: Mineral Products: Process Water 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 January Authorised End: 31 December Permit Start Date: 31st March 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A20SE (E)	1581	2	381520 418720
	Water Abstractions Operator: Marshalls Mono Ltd Licence Number: 2569001287 Permit Version: 2 Location: Scout Moor Quarry Borehole 4 Authority: Environment Agency, North West Region Abstraction: Mineral Products: Process Water 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 January Authorised End: 31 December Permit Start Date: 15th October 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A20SE (E)	1597	2	381540 418710
	Water Abstractions Operator: Marshalls Plc Licence Number: 2569001287 Permit Version: 1 Location: Scout Moor Quarry Borehole 4 Authority: Environment Agency, North West Region Abstraction: Mineral Products: Process Water 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 January Authorised End: 31 December Permit Start Date: 31st March 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A20SE (E)	1597	2	381540 418710
	Water Abstractions Operator: Marshalls Mono Ltd Licence Number: 2569001287 Permit Version: 2 Location: Scout Moor Quarry Borehole 2 Authority: Environment Agency, North West Region Abstraction: Mineral Products: Process Water 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 January Authorised End: 31 December Permit Start Date: 15th October 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A20SE (E)	1600	2	381540 418720

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Marshalls Plc Licence Number: 2569001287 Permit Version: 1 Location: Scout Moor Quarry Borehole 2 Authority: Environment Agency, North West Region Abstraction: Mineral Products: Process Water 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 January Authorised End: 31 December Permit Start Date: 31st March 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A20SE (E)	1600	2	381540 418720
	Water Abstractions Operator: Mondi Holcombe Limited Licence Number: 2569001030 Permit Version: 105 Location: Borehole At Peel Bridge Mills, Ramsbottom Authority: Environment Agency, North West Region Abstraction: Paper And Printing: Process Water 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 Peel Bridge Mills, Ramsbottom Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th August 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A2SW (SW)	1613	2	379300 416700
	Water Abstractions Operator: Mondi Packaging Holcombe Limited Licence Number: 2569001030 Permit Version: 104 Location: Borehole At Peel Bridge Mills, Ramsbottom Authority: Environment Agency, North West Region Abstraction: Paper And Printing: Process Water 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 Peel Bridge Mills, Ramsbottom Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 29th September 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A2SW (SW)	1613	2	379300 416700
	Water Abstractions Operator: Mondi Paper Limited Licence Number: 2569001030 Permit Version: 103 Location: Borehole At Peel Bridge Mills, Ramsbottom Authority: Environment Agency, North West Region Abstraction: Paper And Printing: Process Water 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 Peel Bridge Mills, Ramsbottom Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 17th November 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A2SW (SW)	1613	2	379300 416700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Mondi Paper Limited Licence Number: 2569001030 Permit Version: 102 Location: Borehole At Peel Bridge Mills, Ramsbottom Authority: Environment Agency, North West Region Abstraction: Paper And Printing: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Land At Peel Bridge Mills, Ramsbottom Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th September 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A2SW (SW)	1613	2	379300 416700
	Water Abstractions Operator: Danisco Paper Ltd Licence Number: 2569001030 Permit Version: 101 Location: Borehole At Peel Bridge Mills, Ramsbottom Authority: Environment Agency, North West Region Abstraction: Paper And Printing: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 1637 Yearly Rate (m3): 409149 Details: Land At Peel Bridge Mills, Ramsbottom Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 21st August 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A2SW (SW)	1613	2	379300 416700
	Water Abstractions Operator: Marshalls Mono Ltd Licence Number: 2569001287 Permit Version: 2 Location: Scout Moor Quarry Borehole 1 Authority: Environment Agency, North West Region Abstraction: Mineral Products: Process Water 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 January Authorised End: 31 December Permit Start Date: 15th October 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A20SE (E)	1622	2	381560 418730
	Water Abstractions Operator: Marshalls Plc Licence Number: 2569001287 Permit Version: 1 Location: Scout Moor Quarry Borehole 1 Authority: Environment Agency, North West Region Abstraction: Mineral Products: Process Water 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 January Authorised End: 31 December Permit Start Date: 31st March 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A20SE (E)	1622	2	381560 418730

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Scapa-Porritt Ltd Licence Number: 2569001007 Permit Version: Not Supplied Location: Spring Fed Collecting Chamber, North Of Stubbins, RAMSBOTTOM Authority: Environment Agency, North West Region Abstraction: Private Water Supplies (Domestic) Abstraction Type: Not Supplied Source: Spring Daily Rate (m3): 32 Yearly Rate (m3): 11615 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	A16SW (W)	1673	2	378400 418700
	Water Abstractions Operator: Knowles Vanlines Ltd Licence Number: 2569001200 Permit Version: Not Supplied Location: River Irwell, Ramsbottom, BURY Authority: Environment Agency, North West Region Abstraction: Vehicle Washing Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 9 Yearly Rate (m3): 2800 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	A2SW (SW)	1796	2	379300 416500
	Water Abstractions Operator: Marshalls Mono Ltd Licence Number: 2569001262 Permit Version: 2 Location: New Gate Brook Eden Field Lancs Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Mineral Washing Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: New Gate Brook Edenfield Lancashire Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 15th October 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(E)	1900	2	381920 418366
	Water Abstractions Operator: Marshalls Plc Licence Number: 2569001262 Permit Version: 1 Location: New Gate Brook Eden Field Lancs Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Mineral Washing Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: New Gate Brook Edenfield Lancashire Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 22nd September 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(E)	1900	2	381920 418366

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: B & J Ovenden Licence Number: 2569001097 Permit Version: 100 Location: Spring Fed Catchpit At Gate House Farm, Shuttleworth, Rams Authority: Environment Agency, North West Region Abstraction: General Agriculture; General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 5 Yearly Rate (m3): 1682 Details: Gate House Farm, Shuttleworth Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 19th January 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A5NE (SE)	1900	2	381600 417100
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - Low Vulnerability Combined Vulnerability: Low Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: <40% Superficial Patchiness: >90% Superficial Thickness: 3-10m Superficial Recharge: High	A13SW (W)	0	4	380000 418176
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - Low Vulnerability Combined Vulnerability: Low Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: <40% Superficial Patchiness: >90% Superficial Thickness: 3-10m Superficial Recharge: High	A13SE (N)	0	4	380011 418176
	Groundwater Vulnerability - Soluble Rock Risk None				
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SW (W)	0	4	380000 418176
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SE (N)	0	4	380011 418176
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A13SW (W)	0	4	380000 418176
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A13SE (N)	0	4	380011 418176
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (NW)	250	2	379823 418364
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Flood Defences None				
35	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 44.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A13SE (S)	38	5	380023 418126
36	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 30.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A13SW (S)	71	5	380003 418086
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 127.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A13SW (S)	84	5	379976 418074
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 164.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A13NE (NE)	111	5	380111 418272
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 145.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Dearden Brook Catchment Name: Mersey Primacy: 1	A13NW (NW)	255	5	379816 418363
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A13NW (NW)	258	5	379763 418300
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 48.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Dearden Brook Catchment Name: Mersey Primacy: 1	A13NW (NW)	260	5	379762 418304
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 99.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Dearden Brook Catchment Name: Mersey Primacy: 1	A13NW (W)	293	5	379718 418288
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 62.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A13NW (W)	293	5	379718 418288

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Dearden Brook Catchment Name: Mersey Primacy: 1	A13NW (NW)	300	5	379809 418416
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 81.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Dearden Brook Catchment Name: Mersey Primacy: 1	A13NW (NW)	302	5	379808 418417
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Dearden Brook Catchment Name: Mersey Primacy: 1	A13NW (NW)	329	5	379856 418480
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 50.6 Watercourse Level: Underground Permanent: True Watercourse Name: Dearden Brook Catchment Name: Mersey Primacy: 2	A13NW (NW)	335	5	379858 418487
48	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 123.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Dearden Brook Catchment Name: Mersey Primacy: 1	A13NW (NW)	335	5	379858 418487
49	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Dearden Brook Catchment Name: Mersey Primacy: 1	A12NE (W)	376	5	379624 418265
50	OS Water Network Lines Watercourse Form: Reservoir Watercourse Length: 64.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Dearden Brook Catchment Name: Mersey Primacy: 1	A12NE (W)	379	5	379620 418264
51	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Dearden Brook Catchment Name: Mersey Primacy: 2	A18SW (NW)	382	5	379853 418538
52	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Dearden Brook Catchment Name: Mersey Primacy: 2	A18SW (NW)	391	5	379848 418546

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
53	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 194.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Dearden Brook Catchment Name: Mersey Primacy: 2	A18SW (NW)	393	5	379847 418547
54	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 114.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Dearden Brook Catchment Name: Mersey Primacy: 1	A18SW (N)	404	5	379922 418587
55	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 26.0 Watercourse Level: Underground Permanent: True Watercourse Name: Dearden Brook Catchment Name: Mersey Primacy: 1	A12NE (W)	410	5	379581 418213
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 110.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Brook Bottom Brook Catchment Name: Mersey Primacy: 1	A18SE (N)	419	5	380120 418605
57	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 183.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Brook Bottom Brook Catchment Name: Mersey Primacy: 1	A18SE (N)	419	5	380120 418605
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 84.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Dearden Brook Catchment Name: Mersey Primacy: 1	A12NE (W)	428	5	379561 418196
59	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Brook Bottom Brook Catchment Name: Mersey Primacy: 1	A18SE (N)	440	5	380014 418636
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 37.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Dearden Brook Catchment Name: Mersey Primacy: 1	A18SW (N)	442	5	380004 418639
61	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 31.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Dearden Brook Catchment Name: Mersey Primacy: 2	A18SW (N)	478	5	380003 418674

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 37.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Dearden Brook Catchment Name: Mersey Primacy: 1	A18SW (N)	478	5	380003 418674
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 41.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Dearden Brook Catchment Name: Mersey Primacy: 2	A18SW (N)	493	5	379974 418687
64	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 66.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18SE (NE)	502	5	380268 418638
65	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 88.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Brook Bottom Brook Catchment Name: Mersey Primacy: 1	A18SE (NE)	504	5	380281 418633
66	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 153.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Dearden Brook Catchment Name: Mersey Primacy: 1	A12SE (W)	505	5	379485 418135
67	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 15.2 Watercourse Level: Underground Permanent: True Watercourse Name: Dearden Brook Catchment Name: Mersey Primacy: 1	A12NE (W)	508	5	379481 418187
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 17.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Dearden Brook Catchment Name: Mersey Primacy: 1	A18SW (N)	513	5	380004 418710
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 56.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Dearden Brook Catchment Name: Mersey Primacy: 1	A18SE (N)	522	5	380019 418719
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 117.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A19SW (NE)	558	5	380357 418648

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
71	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 148.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Brook Bottom Brook Catchment Name: Mersey Primacy: 1	A19SW (NE)	558	5	380357 418648
72	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 95.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Dearden Brook Catchment Name: Mersey Primacy: 1	A18SE (N)	562	5	380059 418758
73	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 21.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18SW (N)	565	5	379974 418759
74	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 100.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Cross Bank Brook Catchment Name: Mersey Primacy: 1	A8NE (S)	566	5	380112 417603
75	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 267.9 Watercourse Level: Underground Permanent: True Watercourse Name: Cross Bank Brook Catchment Name: Mersey Primacy: 1	A8NE (S)	570	5	380049 417589
76	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 44.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18SE (N)	573	5	380155 418756
77	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 40.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18SE (N)	587	5	380160 418769
78	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 88.7 Watercourse Level: Underground Permanent: True Watercourse Name: Cross Bank Brook Catchment Name: Mersey Primacy: 1	A8NE (S)	589	5	380141 417585
79	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.1 Watercourse Level: Underground Permanent: True Watercourse Name: Dearden Brook Catchment Name: Mersey Primacy: 1	A12SE (W)	597	5	379402 418063

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
80	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 17.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18SE (N)	604	5	380132 418792
81	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Dearden Brook Catchment Name: Mersey Primacy: 1	A12SE (W)	604	5	379396 418059
82	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 80.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: New Gate Brook Catchment Name: Mersey Primacy: 1	A19SW (NE)	613	5	380507 418580
83	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 32.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12SE (W)	613	5	379415 417960
84	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18SE (N)	620	5	380125 418809
85	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 95.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Irwell Catchment Name: Mersey Primacy: 1	A12SE (W)	620	5	379386 418031
86	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 147.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Cross Bank Brook Catchment Name: Mersey Primacy: 1	A8NE (S)	621	5	380229 417579
87	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 491.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Irwell Catchment Name: Mersey Primacy: 1	A12SE (W)	621	5	379380 418049
88	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 221.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Dearden Brook Catchment Name: Mersey Primacy: 1	A18SE (N)	623	5	380124 418812

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
89	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.1 Watercourse Level: Underground Permanent: True Watercourse Name: New Gate Brook Catchment Name: Mersey Primacy: 1	A19SW (NE)	634	5	380546 418563
90	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 30.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8NW (S)	635	5	379769 417563
91	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 316.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: New Gate Brook Catchment Name: Mersey Primacy: 1	A19SW (NE)	639	5	380553 418560
92	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 331.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Irwell Catchment Name: Mersey Primacy: 1	A12SE (W)	644	5	379383 417955
93	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 33.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Cross Bank Brook Catchment Name: Mersey Primacy: 1	A8NW (S)	647	5	379785 417544
94	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 103.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Cross Bank Brook Catchment Name: Mersey Primacy: 1	A8NW (S)	659	5	379752 417543
95	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 39.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A9NW (SE)	695	5	380415 417589
96	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A9NW (SE)	699	5	380390 417569
97	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 50.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Cross Bank Brook Catchment Name: Mersey Primacy: 1	A9NW (SE)	701	5	380369 417555

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
98	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Shuttleworth Brook Catchment Name: Mersey Primacy: 1	A9NW (SE)	701	5	380369 417555
99	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 269.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Cross Bank Brook Catchment Name: Mersey Primacy: 1	A7NE (SW)	701	5	379651 417545
100	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 89.4 Watercourse Level: Underground Permanent: True Watercourse Name: Shuttleworth Brook Catchment Name: Mersey Primacy: 1	A9NW (SE)	704	5	380377 417555
101	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 17.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Cross Bank Brook Catchment Name: Mersey Primacy: 1	A9NW (SE)	744	5	380413 417530
102	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 107.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Shuttleworth Brook Catchment Name: Mersey Primacy: 1	A9NW (SE)	745	5	380467 417564
103	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 147.9 Watercourse Level: Underground Permanent: True Watercourse Name: Shuttleworth Brook Catchment Name: Mersey Primacy: 1	A9NW (SE)	745	5	380540 417625
104	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 181.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Cross Bank Brook Catchment Name: Mersey Primacy: 1	A9NW (SE)	750	5	380429 417533
105	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Shuttleworth Brook Catchment Name: Mersey Primacy: 1	A9NW (SE)	786	5	380664 417705
106	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18NE (N)	792	5	380267 418952

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
107	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 15.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18NE (N)	794	5	380262 418956
108	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 59.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Shuttleworth Brook Catchment Name: Mersey Primacy: 1	A9NW (SE)	794	5	380672 417704
109	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Dearden Brook Catchment Name: Mersey Primacy: 1	A18NE (N)	799	5	380250 418964
110	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 13.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18NE (N)	808	5	380258 418972
111	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 2.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18NE (N)	809	5	380266 418970
112	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 16.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Dearden Brook Catchment Name: Mersey Primacy: 1	A18NE (N)	809	5	380254 418974
113	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 93.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A17SE (NW)	820	5	379485 418822
114	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 113.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A17SE (NW)	820	5	379485 418822
115	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Dearden Brook Catchment Name: Mersey Primacy: 1	A18NE (N)	825	5	380260 418989

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
116	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 200.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Shuttleworth Brook Catchment Name: Mersey Primacy: 1	A9NE (SE)	828	5	380727 417723
117	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 108.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Dearden Brook Catchment Name: Mersey Primacy: 1	A18NE (N)	829	5	380268 418991
118	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 151.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Dearden Brook Catchment Name: Mersey Primacy: 2	A18NE (N)	829	5	380268 418991
119	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 215.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Irwell Catchment Name: Mersey Primacy: 1	A7NE (SW)	847	5	379400 417553
120	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 294.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Irwell Catchment Name: Mersey Primacy: 1	A7NE (SW)	847	5	379400 417553
121	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 374.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A17NE (NW)	850	5	379558 418908
122	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A17SE (NW)	878	5	379396 418823
123	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 24.2 Watercourse Level: Underground Permanent: True Watercourse Name: New Gate Brook Catchment Name: Mersey Primacy: 1	A19SE (NE)	879	5	380844 418525
124	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 274.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Irwell Catchment Name: Mersey Primacy: 1	A17SE (NW)	881	5	379368 418800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
125	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 168.5 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12NW (W)	884	5	379145 418438
126	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 239.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Irwell Catchment Name: Mersey Primacy: 1	A12NW (W)	884	5	379145 418438
127	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 99.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Irwell Catchment Name: Mersey Primacy: 1	A17SE (NW)	887	5	379386 418826
128	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 67.7 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A7NW (SW)	899	5	379234 417677
129	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 246.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: New Gate Brook Catchment Name: Mersey Primacy: 1	A19SE (E)	899	5	380867 418519
130	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 141.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Dearden Brook Catchment Name: Mersey Primacy: 1	A19NW (N)	900	5	380363 419032
131	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 85.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Dearden Brook Catchment Name: Mersey Primacy: 2	A19NW (NE)	919	5	380414 419031
132	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 101.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Cross Bank Brook Catchment Name: Mersey Primacy: 1	A9SW (SE)	923	5	380570 417420
133	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 102.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A17NE (NW)	954	5	379400 418927

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
134	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 380.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Irwell Catchment Name: Mersey Primacy: 1	A17NE (NW)	955	5	379390 418920
135	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 108.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A7NW (SW)	960	5	379167 417670
136	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 334.9 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18NW (N)	964	5	379920 419155
137	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Dearden Brook Catchment Name: Mersey Primacy: 2	A19NW (NE)	973	5	380493 419052
138	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 164.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Dearden Brook Catchment Name: Mersey Primacy: 1	A19NW (NE)	976	5	380496 419054
139	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 16.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A9NE (SE)	978	5	380886 417699
140	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 23.4 Watercourse Level: Underground Permanent: True Watercourse Name: Shuttleworth Brook Catchment Name: Mersey Primacy: 1	A9NE (SE)	978	5	380886 417699
141	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 97.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18NE (N)	981	5	380121 419174
142	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 46.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A14SE (E)	983	5	380957 417848

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
143	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A14SE (E)	983	5	380957 417848
144	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 109.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A7SE (SW)	987	5	379576 417262
145	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 111.2 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A17SW (NW)	993	5	379129 418674
146	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 52.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Irwell Catchment Name: Mersey Primacy: 1	A17SW (NW)	993	5	379129 418674
147	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 38.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Shuttleworth Brook Catchment Name: Mersey Primacy: 1	A9NE (SE)	996	5	380909 417704

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
148	Historical Landfill Sites Licence Holder: Peel Holdings Location: Off Bolton Road North, Stubbins, Edenfield, Lancashire Name: Rose Bank Mill Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15654 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Not Supplied Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 2300/0658 BGS Ref: Not Supplied Other Ref: R016, K1/14/016	A12NE (W)	357	2	379635 418221
149	Historical Landfill Sites Licence Holder: Not Supplied Location: Off Bolton Road North, Edenfield, Lancashire Name: Stubbins County Primary School Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD17929 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Not Supplied Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 2300/0703 BGS Ref: Not Supplied Other Ref: R068, K1/14/068	A12NE (W)	403	2	379618 418334
150	Historical Landfill Sites Licence Holder: Not Supplied Location: Off Hollins Lane, Edenfield, Greater Manchester Name: Hollins Quarry Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15653 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Deposited Waste included Inert Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: C070	A14NW (NE)	456	2	380389 418476
151	Historical Landfill Sites Licence Holder: Not Supplied Location: Off Bury Old Road, Shuttleworth, Ramsbottom, Greater Manchester Name: Top of the Lea Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15656 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Not Supplied Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: C072	A14SW (SE)	512	2	380435 417857
152	Historical Landfill Sites Licence Holder: Bury Metropolitan Borough Council Location: Off Bye Road, Shuttleworth, Bury, Greater Manchester Name: Top Mill Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15658 First Input Date: 31st December 1991 Last Input Date: Not Supplied Specified Waste: Deposited Waste included Inert Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: RD/LIC/675/90,L19A,C094	A8NE (S)	525	2	380062 417636

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
153	Historical Landfill Sites Licence Holder: Not Supplied Location: Off Whalley Road, Shuttleworth, Ramsbottom, Greater Manchester Name: Land off Whalley Road Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15659 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Deposited Waste included Inert Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: C073	A8NW (S)	525	2	379977 417632
154	Historical Landfill Sites Licence Holder: Not Supplied Location: Off Bolton Road North, Edenfield, Lancashire Name: Water Land Landfill Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD17261 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Not Supplied Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 2300/0704 BGS Ref: Not Supplied Other Ref: K1/14/069	A17SE (NW)	628	2	379617 418681
155	Historical Landfill Sites Licence Holder: Not Supplied Location: Off Bamford Road, Shuttleworth, Ramsbottom, Greater Manchester Name: Land off Bamford Road Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15661 First Input Date: 31st December 1983 Last Input Date: Not Supplied Specified Waste: Not Supplied Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: C063	A9NW (SE)	739	2	380465 417571
156	Licensed Waste Management Facilities (Landfill Boundaries) Name: Fletcher Bank Landfill Epr/Gp3733fe Licence Number: 0 Location: Fletcher Bank Quarry, Fletcher Bank, Ramsbottom, Lancashire, BL0 0DD Licence Holder: Churchill Enviro Ltd Authority: Environment Agency - North West Region, South Area Site Category: Waste landfilling; any other landfill to which the 2002 landfill regulations apply Max Input Rate: Not Supplied Licence Status: Transfer Effective Issued: 21st March 2011 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A8SE (S)	753	2	380211 417435
157	Licensed Waste Management Facilities (Locations) Licence Number: 401512 Location: Fletcher Bank Quarry, Ramsbottom, Bury, Lancashire, BL0 0HD Operator Name: Churchill Enviro Ltd Operator Location: Not Supplied Authority: Environment Agency - North West Region, South Area Site Category: Use of waste in a deposit for recovery op Licence Status: Surrendered Issued: 17th July 2014 Last Modified: 2nd June 2017 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 29th March 2018 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	878	2	380367 417357
	Local Authority Landfill Coverage Name: Bury Metropolitan Borough Council - Has not been able to supply Landfill data		0	6	380011 418176

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Rossendale Borough Council - Has supplied landfill data		260	3	379812 418366
	Local Authority Landfill Coverage Name: Lancashire County Council - Had landfill data but passed it to the relevant environment agency		260	7	379812 418366
158	Potentially Infilled Land (Non-Water) Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1982	A13SW (SW)	239	-	379802 418016
159	Potentially Infilled Land (Non-Water) Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1982	A13SW (SW)	277	-	379754 418019
160	Potentially Infilled Land (Non-Water) Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1982	A13NW (W)	295	-	379711 418275
161	Potentially Infilled Land (Non-Water) Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1982	A12SE (SW)	424	-	379659 417897
162	Potentially Infilled Land (Non-Water) Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1982	A17NE (NW)	893	-	379428 418870
163	Potentially Infilled Land (Non-Water) Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1982	A7NW (SW)	957	-	379112 417786
164	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A12NE (W)	426	-	379566 418232
165	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1912	A12SE (W)	531	-	379457 418173
166	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A12SE (W)	574	-	379416 418131
167	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A8NW (S)	576	-	379866 417595
168	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A8NE (SE)	618	-	380322 417624
169	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A12SE (W)	654	-	379359 418000
170	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1912	A12SW (W)	665	-	379325 418136
171	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A12NW (W)	801	-	379212 418372
172	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A17SW (NW)	868	-	379282 418680
173	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A12NW (W)	901	-	379088 418197
174	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A7NW (SW)	905	-	379172 417781

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
175	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A8SW (S)	926	-	379762 417260
176	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A12NW (W)	985	-	379012 418296
177	Registered Landfill Sites Licence Holder: Bury M.B.C. Licence Reference: 00675/90 Site Location: Top Mill Bye Road, Shuttleworth, Ramsbottom, Bury, Lancashire Licence Easting: 380090 Licence Northing: 417560 Operator Location: Craig House, BURY, Lancashire, BL9 0DN Authority: Environment Agency - North West Region, South Area Site Category: Landfill Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source: Waste produced/controlled by licence holder Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st July 1991 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Brickwork, Concrete Carbon,Kiesel'R - Not Filter Mat'Ls Glass,Pottery,China,Enamel,Cer'C,Mica Gmwda Group 1 - Non/V.Slow Decomp.Wast Max.Waste Permitted By Licence-States Prohibited Waste: All Other Waste Waste In Drums Waste In Skips	A8NE (S)	603	2	380090 417560

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Millstone Grit Group [See Also Migr]	A13SE (N)	0	1	380011 418176
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (N)	0	1	380011 418176
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12NE (W)	401	1	379594 418247
178	BGS Recorded Mineral Sites Site Name: Sheep Hey Location: Stubbins, Ramsbottom, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 93973 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Midgley Grit Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	279	1	379761 418005
179	BGS Recorded Mineral Sites Site Name: Rose Bank Location: Stubbins, Ramsbottom, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 93974 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Midgley Grit Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A13NW (W)	309	1	379692 418263
180	BGS Recorded Mineral Sites Site Name: Shuttleworth Location: Shuttleworth, Ramsbottom, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 96085 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Midgley Grit Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A8NE (S)	339	1	380052 417822

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
181	BGS Recorded Mineral Sites Site Name: Lower Leeches Location: Stubbins, Ramsbottom, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 93972 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Midgley Grit Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A12SE (SW)	440	1	379639 417898
182	BGS Recorded Mineral Sites Site Name: Hollin'S Quarry Location: Edenfield, Ramsbottom, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 96069 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Brooksbottoms Grit Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	536	1	380424 418558
183	BGS Recorded Mineral Sites Site Name: Bank Lane Quarry Location: Shuttleworth, Ramsbottom, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 15029 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Fletcher Bank Grit Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A8SE (S)	745	1	380110 417420
184	BGS Recorded Mineral Sites Site Name: Chatterton Location: Stubbins, Ramsbottom, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 93971 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Helmsore Grit Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	840	1	379437 418809
185	BGS Recorded Mineral Sites Site Name: Fletcher Bank Quarry Location: Shuttleworth, Ramsbottom, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 50727 Type: Opencast Status: Ceased Operator: Marshalls Natural Stone Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Midgley Grit Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A9SW (S)	892	1	380350 417335
186	BGS Recorded Mineral Sites Site Name: Edenfield Location: Edenfield, Ramsbottom, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 96068 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Brooksbottoms Grit Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A18NE (N)	936	1	380244 419108

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
187	BGS Recorded Mineral Sites Site Name: Fletcher Bank Quarry Location: Shuttleworth, Ramsbottom, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 15030 Type: Opencast Status: Ceased Operator: United Gravel Co., Ltd. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Fletcher Bank Grit Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A8SE (S)	988	1	380055 417170
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13SE (N)	0	8	380011 418176
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13SE (N)	0	-	380011 418176
	Non Coal Mining Areas of Great Britain Risk: Rare Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	1	380011 418176
	Non Coal Mining Areas of Great Britain Risk: Rare Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	380000 418176
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	380000 418176
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	1	380011 418176
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	380000 418176
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	1	380011 418176
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	1	380011 418176
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	380000 418176
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	380000 418176
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	1	380011 418176
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	104	1	379886 418190
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	177	1	379835 418081
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	216	1	379817 418307

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	1	380011 418176
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	380000 418176
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	380000 418176
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	1	380011 418176
	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 (W)	0	1	380000 418176
	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	A13SE (N)	0	1	380011 418176
	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 (W)	0	1	380000 418176
	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	A13SE (N)	0	1	380011 418176

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
188	Contemporary Trade Directory Entries Name: M Evans Engineering Services Ltd Location: 512, Whalley Road, Ramsbottom, Bury, Lancashire, BL0 0ES Classification: Engineers - General Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SE (N)	413	-	380060 418609
189	Contemporary Trade Directory Entries Name: Professional Polishing Manchester Ltd Location: Hope Mill, Whalley Road, Ramsbottom, Bury, Lancashire, BL0 0ES Classification: Metal Finishing Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SE (N)	529	-	380092 418723
189	Contemporary Trade Directory Entries Name: Strongpoint Fencing Location: Unit 3, Hope Mill, Whalley Road, Ramsbottom, Bury, Lancashire, BL0 0ES Classification: Fencing Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SE (N)	529	-	380092 418723
189	Contemporary Trade Directory Entries Name: Verve Designs Ltd Location: Unit 1, Hope Mill, Whalley Road, Ramsbottom, Bury, Lancashire, BL0 0ES Classification: Furniture Manufacturers - Home & Office Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SE (N)	529	-	380092 418723
190	Contemporary Trade Directory Entries Name: Penning Springs Location: Bolton Road North, Ramsbottom, Bury, Lancashire, BL0 0LY Classification: Spring Manufacturers & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	540	-	379587 418536
191	Contemporary Trade Directory Entries Name: Trade Skips Location: Prospect House, 229, Whalley Road, Ramsbottom, Bury, Lancashire, BL0 0ED Classification: Waste Disposal Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (S)	547	-	379995 417609
191	Contemporary Trade Directory Entries Name: Garic M O T Station Location: Prospect House, 229, Whalley Road, Ramsbottom, Bury, Lancashire, BL0 0ED Classification: Mot Testing Centres Status: Active Positional Accuracy: Automatically positioned to the address	A8NW (S)	547	-	379995 417609
191	Contemporary Trade Directory Entries Name: Wood Burner Installers Location: Prospect House, 229, Whalley Road, Ramsbottom, BURY, Lancashire, BL0 0ED Classification: Woodburning Stoves Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (S)	547	-	379995 417609
192	Contemporary Trade Directory Entries Name: Valley Pet & Aquatic Care Location: 1, Moorcroft, Ramsbottom, Bury, Lancashire, BL0 0LL Classification: Pet Cemeteries & Crematoria Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SW (N)	585	-	379826 418747
193	Contemporary Trade Directory Entries Name: Turnbull Prints Ltd Location: Bury, BL0 0NA Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (W)	597	-	379396 418104
194	Contemporary Trade Directory Entries Name: Gardenia Fashions Location: Water La, Ramsbottom, Bury, Lancashire, BL0 0LU Classification: Clothing & Fabrics - Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A17SE (NW)	644	-	379668 418734

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
194	Contemporary Trade Directory Entries Name: Cup Winners Ltd Location: Water Lane, Ramsbottom, BURY, Lancashire, BL0 0LU Classification: Ceramic Manufacturers, Supplies & Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	661	-	379664 418752
194	Contemporary Trade Directory Entries Name: Goals For Life Ltd Location: Water La, Ramsbottom, Bury, Lancashire, BL0 0LU Classification: Sports Equipment Manufacturers & Distributors Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A17SE (NW)	666	-	379653 418750
195	Contemporary Trade Directory Entries Name: Eden Shutters Location: 11, Eden Court, Ramsbottom, Bury, Lancashire, BL0 0HF Classification: Blinds, Awnings & Canopies Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SW (N)	646	-	379929 418835
196	Contemporary Trade Directory Entries Name: Wheel Deal Repairs Ltd Location: Unit 1 Hope Mill, Bury Road, Ramsbottom, Bury, Lancashire, BL0 0EN Classification: Alloys Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A18SE (N)	649	-	380009 418846
196	Contemporary Trade Directory Entries Name: Mobile Alloy Wheel Refurbishment Location: Unit 1, Hope Mill, Bury Rd, Edenfield/Ramsbottom, Bury, Lancashire, BL0 0EN Classification: Alloys Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A18SE (N)	650	-	380014 418847
197	Contemporary Trade Directory Entries Name: Jetchem Systems Location: Unit A11, Cuba Industrial Estate, Bolton Road North, Ramsbottom, BURY, Lancashire, BL0 0NE Classification: Blast Cleaning Equipment Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	718	-	379309 417946
198	Contemporary Trade Directory Entries Name: Ramsbottom Accident Management Services Location: Cuba Industrial Estate, Bolton Road North, Ramsbottom, Bury, Lancashire, BL0 0NE Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned in the proximity of the address	A12SW (W)	754	-	379279 417922
198	Contemporary Trade Directory Entries Name: Alphatek Hyperformance Coatings Ltd Location: Unit 5a, Cuba Industrial Estate, Bolton Road North, Ramsbottom, Bury, Lancashire, BL0 0NE Classification: Powder Coatings Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	787	-	379253 417897
198	Contemporary Trade Directory Entries Name: Reflexol Ltd Location: Unit 1, Cuba Industrial Estate, Bolton Road North, Ramsbottom, Bury, Lancashire, BL0 0NE Classification: Blinds, Awnings & Canopies Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	820	-	379220 417890
198	Contemporary Trade Directory Entries Name: Bring Cargo Ltd Location: Suite 1-3, Havannah House, Cuba Industrial Estate, Bolton Road North, Ramsbottom, Bury, BL0 0NE Classification: Road Haulage Services Status: Active Positional Accuracy: Automatically positioned to the address	A12SW (W)	821	-	379218 417892
198	Contemporary Trade Directory Entries Name: Secure Industrial Doors Ltd Location: Unit 2, Cuba Industrial Estate, Bolton Road North, Ramsbottom, Bury, Lancashire, BL0 0NE Classification: Roller Shutter Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	829	-	379210 417890

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
198	Contemporary Trade Directory Entries Name: Cool Delights Desserts Location: Cuba Ind Est,Bolton Rd North, Ramsbottom, Bury, Lancashire, BL0 ONE Classification: Ice Cream Manufacturers & Suppliers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A12SW (W)	829	-	379217 417872
199	Contemporary Trade Directory Entries Name: Steven Griffiths Location: 33, Highfield Road, Ramsbottom, Bury, Lancashire, BL0 0LF Classification: Waste Disposal Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NW (N)	779	-	379879 418961
199	Contemporary Trade Directory Entries Name: K & B Restorations Location: 25, Highfield Road, Ramsbottom, Bury, Lancashire, BL0 0LF Classification: Furniture - Repairing & Restoring Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NW (N)	807	-	379901 418994
200	Contemporary Trade Directory Entries Name: Fashion Master Location: 298, Bolton Road North, Ramsbottom, Bury, Lancashire, BL0 0NG Classification: Cash Registers & Check-Out Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	810	-	379205 417970
201	Contemporary Trade Directory Entries Name: Platinum Blinds Location: 23, Merlewood, Ramsbottom, Bury, Lancashire, BL0 0HE Classification: Blinds, Awnings & Canopies Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NW (N)	811	-	379980 419006
202	Contemporary Trade Directory Entries Name: Burning Desire Location: Unit 9, Cuba Industrial Estate, Bolton Road North, Ramsbottom, Bury, BL0 ONE Classification: Fireplaces & Mantelpieces Status: Active Positional Accuracy: Automatically positioned to the address	A7NW (SW)	840	-	379233 417802
202	Contemporary Trade Directory Entries Name: Oak Fabrications Location: Unit 10, Cuba Industrial Estate, Bolton Road North, Ramsbottom, Bury, Lancashire, BL0 ONE Classification: Metal Products - Fabricated Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SW)	848	-	379224 417803
202	Contemporary Trade Directory Entries Name: Brewsmith Beer Location: Unit 11, Cuba Industrial Estate, Bolton Road North, Ramsbottom, Bury, BL0 ONE Classification: Brewers Status: Active Positional Accuracy: Automatically positioned to the address	A7NW (SW)	850	-	379222 417803
203	Contemporary Trade Directory Entries Name: John Schofield (Textile Machinery) Ltd Location: Unit 9, Bridge Mills, Rochdale Road, Ramsbottom, Bury, Lancashire, BL0 0RE Classification: Machinery - Industrial & Commercial Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	848	-	380222 419022
203	Contemporary Trade Directory Entries Name: Bury Motor Bodies Location: Unit 8a, Bridge Mills, Rochdale Road, Ramsbottom, Bury, Lancashire, BL0 0RE Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	861	-	380268 419024
203	Contemporary Trade Directory Entries Name: T P Services Location: Unit 8, Bridge Mills, Rochdale Road, Ramsbottom, Bury, Lancashire, BL0 0RE Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	861	-	380268 419024

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
203	Contemporary Trade Directory Entries Name: T P Services E & M Location: Unit 8, Bridge Mills, Rochdale Road, Edenfield, Ramsbottom, Bury, Lancashire, BL0 0RE Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	861	-	380268 419024
203	Contemporary Trade Directory Entries Name: Engine Express Location: Unit 8, Bridge Mills, Rochdale Road, Ramsbottom, Bury, Lancashire, BL0 0RE Classification: Engine Rebuilding & Reconditioning Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	861	-	380268 419024
203	Contemporary Trade Directory Entries Name: Interbake Ltd Location: Unit 2, Bridge Mills, Rochdale Road, Ramsbottom, Bury, Lancashire, BL0 0RE Classification: Bakery Equipment Manufacturers & Suppliers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	869	-	380302 419022
203	Contemporary Trade Directory Entries Name: Unifiller Uk Ltd Location: Unit 2, Bridge Mills, Rochdale Road, Ramsbottom, Bury, BL0 0RE Classification: Bakery Equipment Manufacturers & Suppliers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	869	-	380302 419022
203	Contemporary Trade Directory Entries Name: B & H Services Location: Unit 4a, Bridge Mills, Rochdale Road, Ramsbottom, Bury, Lancashire, BL0 0RE Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	869	-	380302 419022
203	Contemporary Trade Directory Entries Name: S D W Autos Location: Unit 4b, Bridge Mills, Rochdale Road, Ramsbottom, Bury, Lancashire, BL0 0RE Classification: Car Breakdown & Recovery Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	869	-	380302 419022
203	Contemporary Trade Directory Entries Name: Pheonix Autos Location: Unit 4b, Bridge Mills, Rochdale Road, Ramsbottom, Bury, Lancashire, BL0 0RE Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	869	-	380302 419022
203	Contemporary Trade Directory Entries Name: Loe Bank Motors Ltd Location: Unit 6, Bridge Mills, Rochdale Road, Ramsbottom, Bury, BL0 0RE Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A18NE (N)	876	-	380257 419043
203	Contemporary Trade Directory Entries Name: Edenfield M O T Station Location: Unit 6, Bridge Mills, Rochdale Road, Ramsbottom, Bury, BL0 0RE Classification: Mot Testing Centres Status: Active Positional Accuracy: Automatically positioned to the address	A18NE (N)	876	-	380257 419043
204	Contemporary Trade Directory Entries Name: T K Autos Ltd Location: Unit 1, Bridge Mills, Rochdale Road, Ramsbottom, Bury, BL0 0RE Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A18NE (N)	867	-	380322 419013
205	Contemporary Trade Directory Entries Name: Bridge Mills Service Centre Location: Unit 5, Bridge Mills, Rochdale Road, Ramsbottom, Bury, BL0 0RE Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A19NW (N)	918	-	380358 419054

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
205	Contemporary Trade Directory Entries Name: Bridge Mills Service Centre Ltd Location: Unit 5, Bridge Mills, Rochdale Road, Ramsbottom, Bury, Lancashire, BL0 0RE Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NW (N)	919	-	380358 419054
206	Contemporary Trade Directory Entries Name: Steve Sutcliffe Location: 95, Eden Avenue, Ramsbottom, Bury, Lancashire, BL0 0LD Classification: Boilers - Servicing, Replacements & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NW (N)	931	-	379849 419110
207	Contemporary Trade Directory Entries Name: Manchester Autobodies Location: 1, Rochdale Road, Ramsbottom, Bury, BL0 0JT Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	964	-	380020 419161
208	Contemporary Trade Directory Entries Name: Footsteps Location: 146, Stubbins Lane, Ramsbottom, Bury, Lancashire, BL0 0PS Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SW)	970	-	379196 417606
209	Contemporary Trade Directory Entries Name: S C A Hygiene Products Tissue Ltd Location: Stubbins Lane, Ramsbottom, Bury, Lancashire, BL0 0NH Classification: Paper & Pulp Mills Status: Active Positional Accuracy: Automatically positioned to the address	A12SW (W)	973	-	379053 417911
209	Contemporary Trade Directory Entries Name: Georgia Pacific Location: Stubbins Lane, Ramsbottom, Bury, Lancashire, BL0 0NH Classification: Paper & Pulp Mills Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	973	-	379053 417911
209	Contemporary Trade Directory Entries Name: Siteserv Recycling Location: Stubbins Lane, Ramsbottom, Bury, Lancashire, BL0 0NH Classification: Recycling Services Status: Active Positional Accuracy: Automatically positioned to the address	A12SW (W)	973	-	379053 417911
210	Contemporary Trade Directory Entries Name: Auto-Rescue 1990 Ltd Location: Stubbins Lane Mill, Stubbins Lane, Ramsbottom, Bury, Lancashire, BL0 0PS Classification: Car Breakdown & Recovery Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SW)	994	-	379202 417556
210	Contemporary Trade Directory Entries Name: Auto Rescue 1990 Ltd Location: Stubbins Lane Mill, Stubbins Lane, Ramsbottom, Bury, Lancashire, BL0 0PS Classification: Car Breakdown & Recovery Services Status: Active Positional Accuracy: Automatically positioned to the address	A7NW (SW)	994	-	379202 417556
211	Contemporary Trade Directory Entries Name: Voith Location: Stubbins Vale Mill, Stubbins Vale Road, Ramsbottom, Bury, Lancashire, BL0 0NT Classification: Textile Manufacturing Status: Active Positional Accuracy: Automatically positioned to the address	A11NE (W)	1000	-	378995 418286
211	Contemporary Trade Directory Entries Name: T N T Location: Stubbins Vale Mill, Stubbins Vale Road, Ramsbottom, Bury, Lancashire, BL0 0NT Classification: Road Haulage Services Status: Active Positional Accuracy: Automatically positioned to the address	A11NE (W)	1000	-	378995 418286

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
211	Contemporary Trade Directory Entries Name: Voith Fabrics Stubbins Ltd Location: Stubbins Vale Mill, Stubbins Vale Road, Ramsbottom, Bury, Lancashire, BL0 0NT Classification: Plastics - Vacuum Forming Status: Inactive Positional Accuracy: Automatically positioned to the address	A11NE (W)	1000	-	378995 418286
212	Points of Interest - Commercial Services Name: Evans Engineering Services Location: 512 Whalley Road, Ramsbottom, Bury, BL0 0ES Category: Construction Services Class Code: Metalworkers Including Blacksmiths Positional Accuracy: Positioned to address or location	A18SE (N)	413	9	380060 418609
213	Points of Interest - Commercial Services Name: Garic M O T Station Location: Prospect House 229, Whalley Road, Ramsbottom, Bury, BL0 0ED Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8NW (S)	546	9	379985 417610
214	Points of Interest - Commercial Services Name: Bring Cargo Ltd Location: Suite 1 Havannah House Cuba Industrial Estate, Bolton Road North, Ramsbottom, Bury, BL0 0NE Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A12SE (W)	583	9	379407 418133
215	Points of Interest - Commercial Services Name: TNT Express Location: Unit 10a Cuba Industrial Estate, Bolton Road North, Ramsbottom, Bury, BL0 0NE Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A12SW (SW)	763	9	379296 417851
216	Points of Interest - Commercial Services Name: Michael Kenyon Location: Unit A2 Cuba Industrial Estate, Bolton Road North, Ramsbottom, Bury, BL0 0NE Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12SW (W)	798	9	379227 417937
217	Points of Interest - Commercial Services Name: Bury Motorbodies Location: Unit 8a Bridge Mills, Rochdale Road, Ramsbottom, Bury, BL0 0RE Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18NE (N)	849	9	380250 419016
217	Points of Interest - Commercial Services Name: Bury Motor Bodies Location: Unit 8a Bridge Mills, Rochdale Road, Ramsbottom, Bury, BL0 0RE Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18NE (N)	861	9	380268 419024
217	Points of Interest - Commercial Services Name: Engine Express Location: Unit 8a Bridge Mills, Rochdale Road, Ramsbottom, Bury, BL0 0RE Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18NE (N)	861	9	380268 419024
217	Points of Interest - Commercial Services Name: T K Autos Ltd Location: Unit 1 Bridge Mills, Rochdale Road, Ramsbottom, Bury, BL0 0RE Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18NE (N)	867	9	380322 419013
217	Points of Interest - Commercial Services Name: Pheonix Autos Location: Unit 4b Bridge Mills, Rochdale Road, Ramsbottom, Bury, BL0 0RE Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18NE (N)	869	9	380302 419022

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
217	Points of Interest - Commercial Services Name: T K Autos Ltd Location: Unit 3 Bridge Mills, Rochdale Road, Ramsbottom, Bury, BL0 0RE Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18NE (N)	869	9	380302 419022
217	Points of Interest - Commercial Services Name: Engine Express Location: Unit 11 Bridge Mills, Rochdale Road, Ramsbottom, Bury, BL0 0RE Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18NE (N)	869	9	380302 419022
217	Points of Interest - Commercial Services Name: Pheonix Autos Location: Unit 4/B Bridge Mills, Rochdale Road, Ramsbottom, Bury, BL0 0RE Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18NE (N)	869	9	380302 419022
217	Points of Interest - Commercial Services Name: Toscano Transport Ltd Location: Unit 3 Bridge Mills, Rochdale Road, Ramsbottom, Bury, BL0 0RE Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A18NE (N)	869	9	380302 419022
217	Points of Interest - Commercial Services Name: Improvair Location: Unit 4 Bridge Mills, Rochdale Road, Ramsbottom, Bury, BL0 0RE Category: Construction Services Class Code: Metalworkers Including Blacksmiths Positional Accuracy: Positioned to address or location	A18NE (N)	869	9	380302 419022
217	Points of Interest - Commercial Services Name: Edanfield M O T Station Location: Unit 6 Bridge Mills, Rochdale Road, Ramsbottom, Bury, BL0 0RE Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18NE (N)	876	9	380257 419043
217	Points of Interest - Commercial Services Name: Loe Bank Motors Location: Unit 6 Bridge Mills, Rochdale Road, Ramsbottom, Bury, BL0 0RE Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18NE (N)	876	9	380257 419043
217	Points of Interest - Commercial Services Name: Loe Bank Motors Ltd Location: Unit 6 Bridge Mills, Rochdale Road, Ramsbottom, Bury, BL0 0RE Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18NE (N)	876	9	380257 419043
217	Points of Interest - Commercial Services Name: Edenfield M O T Station Location: Unit 6 Bridge Mills, Rochdale Road, Ramsbottom, Bury, BL0 0RE Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18NE (N)	876	9	380257 419043
218	Points of Interest - Commercial Services Name: Bridge Mills Service Centre Location: Unit 5 Bridge Mills, Rochdale Road, Edenfield, Ramsbottom, Bury, BL0 0RE Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A19NW (N)	918	9	380358 419054
218	Points of Interest - Commercial Services Name: Bridge Mills Service Centre Ltd Location: Unit 5 Bridge Mills, Rochdale Road, Ramsbottom, Bury, BL0 0RE Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A19NW (N)	919	9	380358 419054
218	Points of Interest - Commercial Services Name: Bridge Mills Service Centre Location: Unit 5 Bridge Mills, Rochdale Road, Ramsbottom, Bury, BL0 0RE Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A19NW (N)	919	9	380358 419054

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
219	Points of Interest - Commercial Services Name: Auto Rescue 1990 Ltd Location: Stubbins Lane Mill, Stubbins Lane, Ramsbottom, Bury, BL0 0PS Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7NW (SW)	994	9	379202 417556
220	Points of Interest - Education and Health Name: Valley Pet & Aquatic Care Location: 1 Moorcroft, Ramsbottom, Bury, BL0 0LL Category: Animal Welfare Class Code: Pet Cemeteries and Crematoria Positional Accuracy: Positioned to address or location	A18SW (N)	585	9	379826 418746
221	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A13NW (NW)	284	9	379808 418395
222	Points of Interest - Manufacturing and Production Name: Croft End Works Location: BL0 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12SE (W)	581	9	379411 418111
222	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12SE (W)	600	9	379392 418109
222	Points of Interest - Manufacturing and Production Name: Works Location: BL0 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12SE (W)	601	9	379391 418111
223	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	741	9	379289 417933
223	Points of Interest - Manufacturing and Production Name: Works Location: BL0 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	741	9	379288 417936
224	Points of Interest - Manufacturing and Production Name: N Cryer Location: Spring Street, Ramsbottom, Bury, BL0 0DS Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A8SW (S)	796	9	379925 417363
224	Points of Interest - Manufacturing and Production Name: N Cryer Location: Woodhill Farm, Spring Street, Ramsbottom, Bury, BL0 0DS Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A8SW (S)	797	9	379924 417362
224	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A8SW (S)	810	9	379948 417347
225	Points of Interest - Manufacturing and Production Name: Cuba Industrial Estate Location: BL0 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	829	9	379217 417870

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
226	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7NE (SW)	886	9	379352 417547
226	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7NE (SW)	886	9	379364 417534
226	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7NE (SW)	887	9	379349 417549
226	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7NE (SW)	887	9	379346 417551
226	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7NE (SW)	888	9	379338 417558
226	Points of Interest - Manufacturing and Production Name: Tanks Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	891	9	379352 417539
226	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7NE (SW)	893	9	379336 417553
226	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7NE (SW)	897	9	379334 417550
226	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7NE (SW)	899	9	379345 417535
226	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7NW (SW)	902	9	379332 417545
226	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7NW (SW)	912	9	379303 417562
226	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7NE (SW)	923	9	379336 417510

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
226	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7NW (SW)	924	9	379278 417574
226	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7NW (SW)	927	9	379319 417522
226	Points of Interest - Manufacturing and Production Name: Tanks Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A7NW (SW)	929	9	379284 417559
226	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7NW (SW)	938	9	379298 417528
226	Points of Interest - Manufacturing and Production Name: Tanks Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A7NW (SW)	939	9	379308 417516
226	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7NW (SW)	948	9	379309 417502
227	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A12NW (W)	933	9	379061 418274
227	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A12NW (W)	947	9	379052 418315
228	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7NW (SW)	967	9	379105 417778
228	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7NW (W)	970	9	379091 417804
228	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7NW (W)	971	9	379090 417804
228	Points of Interest - Manufacturing and Production Name: Tanks Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A7NW (SW)	973	9	379108 417757

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
228	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7NW (SW)	974	9	379104 417764
228	Points of Interest - Manufacturing and Production Name: Tanks Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A7NW (W)	974	9	379083 417815
228	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7NW (W)	977	9	379075 417828
228	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7NW (W)	979	9	379076 417820
228	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A12SW (W)	989	9	379054 417853
228	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A12SW (W)	997	9	379046 417852
229	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A18NE (N)	984	9	380080 419180
230	Points of Interest - Public Infrastructure Name: Weir Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	247	9	379831 418365
230	Points of Interest - Public Infrastructure Name: Weir Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	253	9	379824 418367
230	Points of Interest - Public Infrastructure Name: Weir Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	273	9	379829 418397
230	Points of Interest - Public Infrastructure Name: Weir Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	291	9	379818 418411
231	Points of Interest - Public Infrastructure Name: Weir Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A13NW (W)	299	9	379715 418296

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
231	Points of Interest - Public Infrastructure Name: Weir Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A13NW (W)	302	9	379711 418293
231	Points of Interest - Public Infrastructure Name: Sluice Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A13NW (W)	334	9	379673 418284
231	Points of Interest - Public Infrastructure Name: Sluice Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A12NE (W)	344	9	379661 418281
231	Points of Interest - Public Infrastructure Name: Weir Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A12NE (W)	366	9	379632 418256
231	Points of Interest - Public Infrastructure Name: Weir Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A12NE (W)	374	9	379624 418259
231	Points of Interest - Public Infrastructure Name: Sluices Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A12NE (W)	396	9	379594 418213
232	Points of Interest - Public Infrastructure Name: Sluice Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A18SW (N)	386	9	379860 418546
232	Points of Interest - Public Infrastructure Name: Sluice Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A18SW (NW)	392	9	379850 418548
233	Points of Interest - Public Infrastructure Name: Sluices Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A12NE (W)	409	9	379581 418212
233	Points of Interest - Public Infrastructure Name: Sluice Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A12SE (W)	446	9	379543 418175
233	Points of Interest - Public Infrastructure Name: Sluices Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A12NE (W)	449	9	379540 418179
233	Points of Interest - Public Infrastructure Name: Weir Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A12SE (W)	504	9	379485 418163

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
233	Points of Interest - Public Infrastructure Name: Weir Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A12SE (W)	511	9	379478 418163
234	Points of Interest - Public Infrastructure Name: Sluice Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A18SW (N)	427	9	379918 418610
234	Points of Interest - Public Infrastructure Name: Sluice Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A18SW (N)	496	9	379969 418689
234	Points of Interest - Public Infrastructure Name: Sluice Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A18SW (N)	496	9	379962 418688
234	Points of Interest - Public Infrastructure Name: Weir Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A18SE (N)	506	9	380017 418703
234	Points of Interest - Public Infrastructure Name: Weir Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A18SE (N)	507	9	380010 418704
234	Points of Interest - Public Infrastructure Name: Weir Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A18SW (N)	509	9	379983 418704
234	Points of Interest - Public Infrastructure Name: Sluice Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A18SW (N)	516	9	379984 418711
235	Points of Interest - Public Infrastructure Name: Graveyard Location: Not Supplied Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A12NE (NW)	521	9	379557 418468
235	Points of Interest - Public Infrastructure Name: Graveyard Location: BL0 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A12NE (NW)	533	9	379543 418467
236	Points of Interest - Public Infrastructure Name: Trade Skips Location: Prospect House 229, Whalley Road, Ramsbottom, Bury, BL0 0ED Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A8NW (S)	546	9	379986 417610
237	Points of Interest - Public Infrastructure Name: Sluice Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A12SE (W)	574	9	379425 418068

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
237	Points of Interest - Public Infrastructure Name: Weir Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A12SE (W)	633	9	379382 417994
238	Points of Interest - Public Infrastructure Name: Weir Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A18SE (N)	616	9	380107 418808
238	Points of Interest - Public Infrastructure Name: Weir Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A18SE (N)	616	9	380115 418807
239	Points of Interest - Public Infrastructure Name: Weir Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A8NW (S)	656	9	379777 417537
239	Points of Interest - Public Infrastructure Name: Weir Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A8NW (S)	658	9	379773 417537
240	Points of Interest - Public Infrastructure Name: Weir Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	704	9	380386 417561
240	Points of Interest - Public Infrastructure Name: Weir Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	706	9	380391 417561
241	Points of Interest - Public Infrastructure Name: Slurry Pit Location: BL0 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	738	9	380745 417993
241	Points of Interest - Public Infrastructure Name: Slurry Pit Location: BL0 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A14SE (E)	747	9	380752 417985
242	Points of Interest - Public Infrastructure Name: Refuse Tip Location: BL0 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	741	9	380598 417693
243	Points of Interest - Public Infrastructure Name: Weir Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A18NE (N)	755	9	380187 418935
243	Points of Interest - Public Infrastructure Name: Weir Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A18NE (N)	762	9	380217 418935

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
244	Points of Interest - Public Infrastructure Name: Steven Griffiths Location: 33 Highfield Road, Ramsbottom, Bury, BL0 0LF Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A18NW (N)	779	9	379879 418961
245	Points of Interest - Public Infrastructure Name: Site Serv Ltd Location: Stubbins Lane, Ramsbottom, Bury, BL0 0NH Category: Infrastructure and Facilities Class Code: Recycling Centres Positional Accuracy: Positioned to address or location	A12SW (W)	973	9	379053 417911
246	Points of Interest - Public Infrastructure Name: Sluice Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A19NW (NE)	978	9	380512 419047
246	Points of Interest - Public Infrastructure Name: Sluice Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A19NW (NE)	979	9	380511 419049
246	Points of Interest - Public Infrastructure Name: Weir Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A19NW (NE)	984	9	380500 419060
246	Points of Interest - Public Infrastructure Name: Weir Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A19NW (NE)	986	9	380501 419062
247	Points of Interest - Public Infrastructure Name: Greater Manchester County Fire Service Location: Fire Station, Stubbins Lane, Ramsbottom, Bury, BL0 0PS Category: Central and Local Government Class Code: Fire Brigade Stations Positional Accuracy: Positioned to address or location	A7NW (SW)	994	9	379202 417556
247	Points of Interest - Public Infrastructure Name: Greater Manchester County Fire Service Location: Fire Station, Stubbins Lane, Ramsbottom, Bury, BL0 0PS Category: Central and Local Government Class Code: Fire Brigade Stations Positional Accuracy: Positioned to address or location	A7NW (SW)	994	9	379202 417556
247	Points of Interest - Public Infrastructure Name: Ramsbottom Fire Station Location: Fire Station, Stubbins Lane, Ramsbottom, Bury, BL0 0PS Category: Central and Local Government Class Code: Fire Brigade Stations Positional Accuracy: Positioned to address or location	A7NW (SW)	995	9	379202 417556
248	Points of Interest - Recreational and Environmental Name: Playground Location: Chatterton Road, BL0 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A17SW (NW)	886	9	379297 418729
248	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A17SW (NW)	895	9	379284 418727
249	Points of Interest - Recreational and Environmental Name: Play Area Location: BL0 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	927	9	380952 418276

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
250	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A18NW (N)	993	9	379884 419179
250	Points of Interest - Recreational and Environmental Name: Playground Location: Exchange Street, BLO Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A18NW (N)	996	9	379883 419182

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
251	Areas of Adopted Green Belt Authority: Bury Metropolitan Borough Council Plan Name: Bury Unitary Development Plan Status: Adopted Plan Date: 29th August 1997	A13SE (N)	0	6	380011 418176
252	Areas of Adopted Green Belt Authority: Rossendale Borough Council, Planning Department Plan Name: Proposal Map Status: Adopted Plan Date: 9th November 2011	A13NW (NW)	265	11	379770 418325
253	Areas of Adopted Green Belt Authority: Rossendale Borough Council, Planning Department Plan Name: Proposal Map Status: Adopted Plan Date: 9th November 2011	A13NW (NW)	265	11	379770 418325

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Environment Agency - Head Office Rossendale Borough Council - Environmental Health Department Rochdale Metropolitan Borough Council - Environmental Health Department Blackburn with Darwen Borough Council - Environmental Health Department Bury Metropolitan Borough Council - Environmental Health Department	June 2020 October 2017 October 2017 September 2017 September 2017	Annually Annual Rolling Update Annually Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - North West Region	July 2021	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	July 2021	Quarterly
Local Authority Integrated Pollution Prevention And Control Blackburn with Darwen Borough Council - Environmental Health Department Bury Metropolitan Borough Council - Environmental Health Department Rochdale Metropolitan Borough Council - Environmental Health Department Rossendale Borough Council - Environmental Health Department	February 2015 February 2015 July 2014 May 2016	Variable Variable Variable Variable
Local Authority Pollution Prevention and Controls Blackburn with Darwen Borough Council - Environmental Health Department Bury Metropolitan Borough Council - Environmental Health Department Rochdale Metropolitan Borough Council - Environmental Health Department Rossendale Borough Council - Environmental Health Department	February 2015 February 2015 July 2014 May 2016	Not Applicable Not Applicable Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Blackburn with Darwen Borough Council - Environmental Health Department Bury Metropolitan Borough Council - Environmental Health Department Rochdale Metropolitan Borough Council - Environmental Health Department Rossendale Borough Council - Environmental Health Department	February 2015 February 2015 July 2014 May 2016	Variable Variable Variable Variable
Nearest Surface Water Feature Ordnance Survey	August 2021	
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	Annually
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	April 2012	Annually
River Quality Chemistry Sampling Points Environment Agency - Head Office	April 2012	Annually
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	July 2021 July 2021 July 2021	Quarterly Quarterly Quarterly
Water Abstractions Environment Agency - North West Region	July 2021	Quarterly

Agency & Hydrological	Version	Update Cycle
Water Industry Act Referrals Environment Agency - North West Region	October 2017	Quarterly
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	May 2021	Bi-Annually
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	September 2021	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	September 2021	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	September 2021	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	September 2021	Quarterly
Flood Defences Environment Agency - Head Office	September 2021	Quarterly
OS Water Network Lines Ordnance Survey	July 2021	Quarterly
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water Suitability Environment Agency - Head Office	February 2016	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	Annually

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	November 2002	Not Applicable
Historical Landfill Sites Environment Agency - Head Office	May 2021	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	July 2021 July 2021 July 2021	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	July 2021 July 2021 July 2021	Quarterly Quarterly Quarterly
Local Authority Landfill Coverage Blackburn with Darwen Borough Council Bury Metropolitan Borough Council Lancashire County Council - Waste Management Group Rochdale Metropolitan Borough Council - Environmental Health Department Rossendale Borough Council - Environmental Health Department	February 2003 February 2003 February 2003 February 2003 February 2003	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Blackburn with Darwen Borough Council Bury Metropolitan Borough Council Lancashire County Council - Waste Management Group Rochdale Metropolitan Borough Council - Environmental Health Department Rossendale Borough Council - Environmental Health Department	October 2018 October 2018 October 2018 October 2018 October 2018	
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	
Registered Landfill Sites Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	March 2006 March 2006 March 2006	Not Applicable Not Applicable Not Applicable
Registered Waste Transfer Sites Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	April 2018 April 2018 April 2018	
Registered Waste Treatment or Disposal Sites Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	June 2015 June 2015 June 2015	

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	April 2018	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements Blackburn with Darwen Borough Council Bury Metropolitan Borough Council Lancashire County Council Rochdale Metropolitan Borough Council Rossendale Borough Council - Planning Department	February 2016 February 2016 February 2016 February 2016 February 2016	Variable Variable Variable Variable Variable
Planning Hazardous Substance Consents Blackburn with Darwen Borough Council Bury Metropolitan Borough Council Lancashire County Council Rochdale Metropolitan Borough Council Rossendale Borough Council - Planning Department	February 2016 February 2016 February 2016 February 2016 February 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	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	December 2015	Annually
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	November 2021	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	As notified
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	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	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	Annually

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	July 2021	Quarterly
Fuel Station Entries Catalist Ltd - Experian	August 2021	Quarterly
Gas Pipelines National Grid	October 2021	Annually
Points of Interest - Commercial Services PointX	September 2021	Quarterly
Points of Interest - Education and Health PointX	September 2021	Quarterly
Points of Interest - Manufacturing and Production PointX	September 2021	Quarterly
Points of Interest - Public Infrastructure PointX	September 2021	Quarterly
Points of Interest - Recreational and Environmental PointX	September 2021	Quarterly
Underground Electrical Cables National Grid	May 2021	Annually

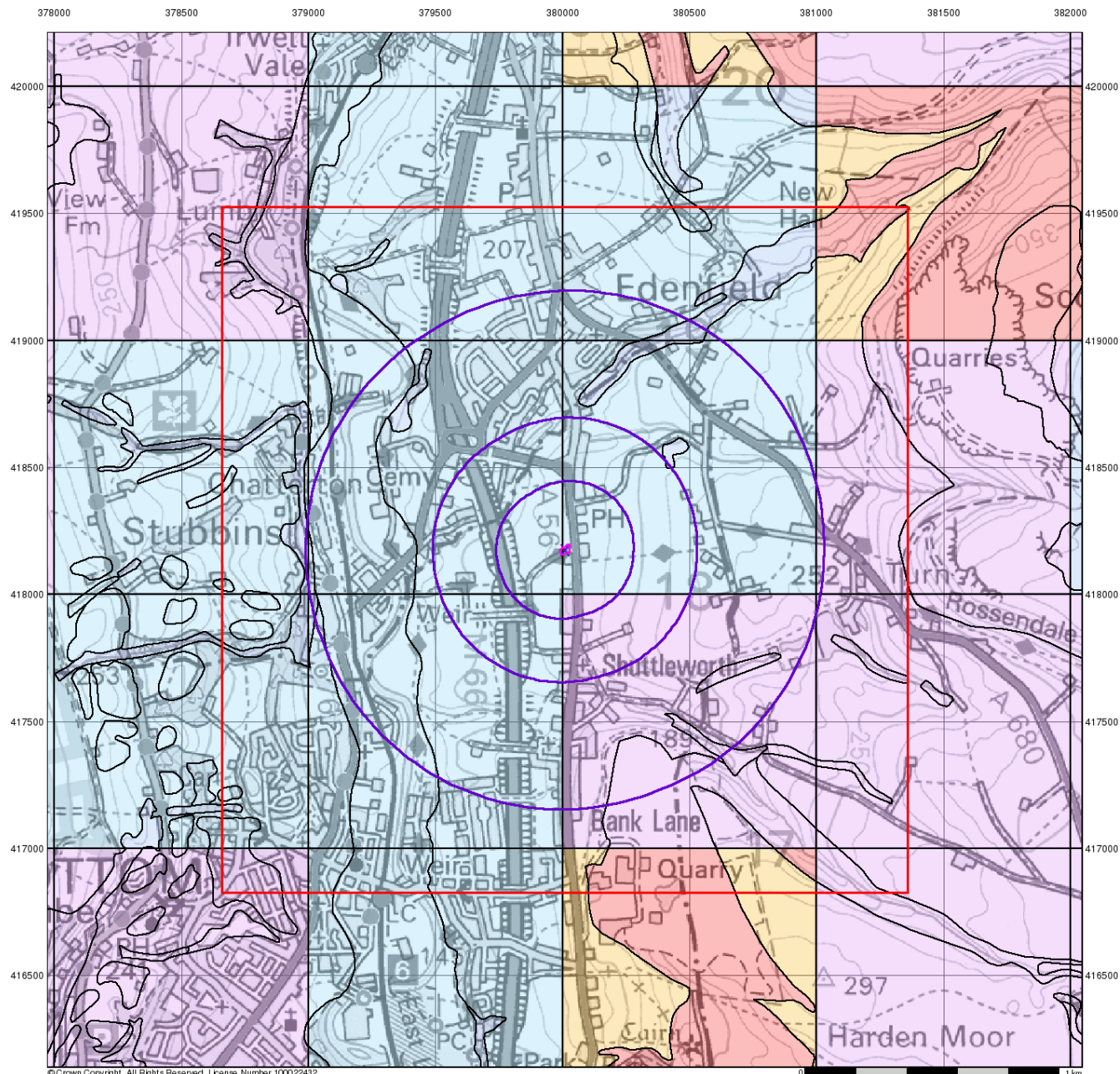
Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	February 2021	Bi-Annually
Areas of Adopted Green Belt Blackburn with Darwen Borough Council Bury Metropolitan Borough Council Rochdale Metropolitan Borough Council Rossendale Borough Council - Planning Department	October 2020 October 2020 October 2020 October 2020	Quarterly Quarterly Quarterly Quarterly
Areas of Unadopted Green Belt Blackburn with Darwen Borough Council Bury Metropolitan Borough Council Rochdale Metropolitan Borough Council Rossendale Borough Council - Planning Department	October 2020 October 2020 October 2020 October 2020	Quarterly Quarterly Quarterly Quarterly
Areas of Outstanding Natural Beauty Natural England	January 2021	Bi-Annually
Environmentally Sensitive Areas Natural England	January 2017	
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	February 2021	Bi-Annually
Marine Nature Reserves Natural England	July 2019	Bi-Annually
National Nature Reserves Natural England	January 2021	Bi-Annually
National Parks Natural England	February 2018	Bi-Annually
Nitrate Sensitive Areas Natural England	April 2016	Not Applicable
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA) Environment Agency - Head Office	April 2016 June 2017	Bi-Annually
Ramsar Sites Natural England	August 2020	Bi-Annually
Sites of Special Scientific Interest Natural England	February 2021	Bi-Annually
Special Areas of Conservation Natural England	July 2020	Bi-Annually
Special Protection Areas Natural England	February 2021	Bi-Annually

A selection of organisations who provide data within this report

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

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	Rossendale Borough Council - Environmental Health Department Town Hall, Rawtenstall, Rossendale, Lancashire, BB4 7LZ	Telephone: 01706 217777 Fax: 01706 224958 Website: www.rossendale.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	Bury Metropolitan Borough Council Craig House, Bank Street, Bury, Lancashire, BL9 0DN	Telephone: 0161 253 5000 Fax: 0161 705 5290 Website: www.bury.gov.uk
7	Lancashire County Council - Waste Management Group Environment Directorate, Guild House, Cross Street, Preston, Lancashire, PR1 8RD	Website: www.lancashire.gov.uk
8	The Coal Authority - Property Searches 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
9	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
10	Natural England County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
11	Rossendale Borough Council - Planning Department Town Hall, Rawtenstall, Lancashire, BB4 7LZ	Telephone: 01706 217777 Fax: 01706 224958 Website: www.rossendale.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.



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GROUP

Groundwater Vulnerability

General

- ◇ Specified Site ○ Specified Buffer(s) X Bearing Reference Point
- Slice 8 Map ID

Agency and Hydrological

Bedrock Aquifers

- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

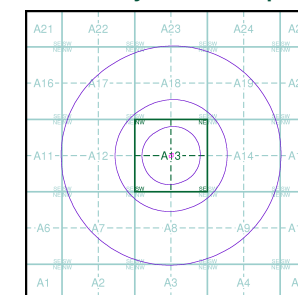
Superficial Aquifers

- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

Unproductive Aquifer

Soluble Rock

Site Sensitivity Context Map - Slice A



Order Details

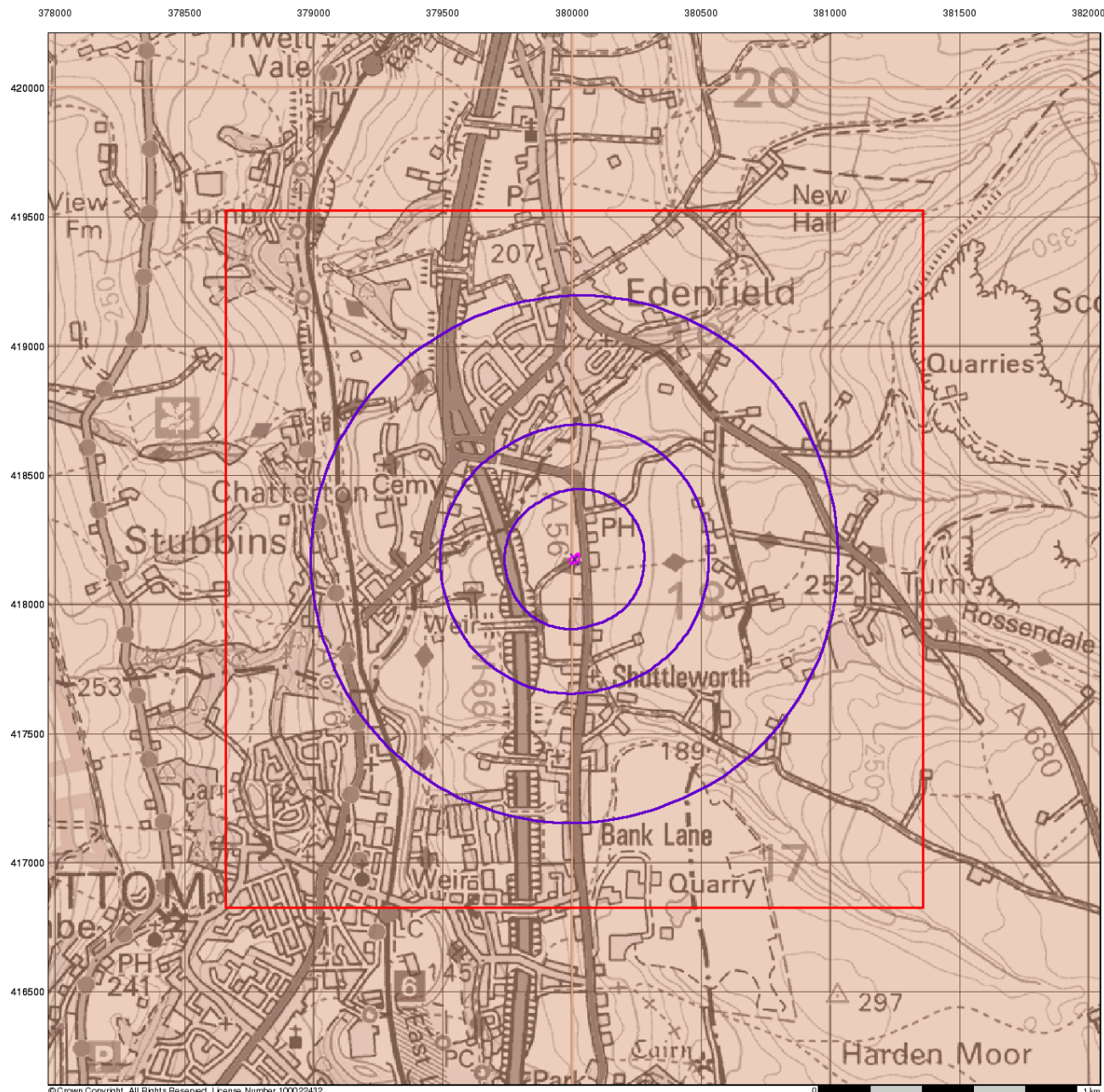
Order Number: 287431069_1_1
 Customer Ref: LKC 21 1608
 National Grid Reference: 380010, 418180
 Slice: A
 Site Area (Ha): 0.1
 Search Buffer (m): 1000

Site Details

Land adjacent to 391 Whalley Road, Ramsbottom, BURY, BL0 0ER

Landmark
 INFORMATION GROUP

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0 1 km



GROUP

Bedrock Aquifer Designation

General

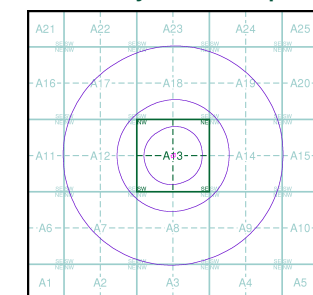
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

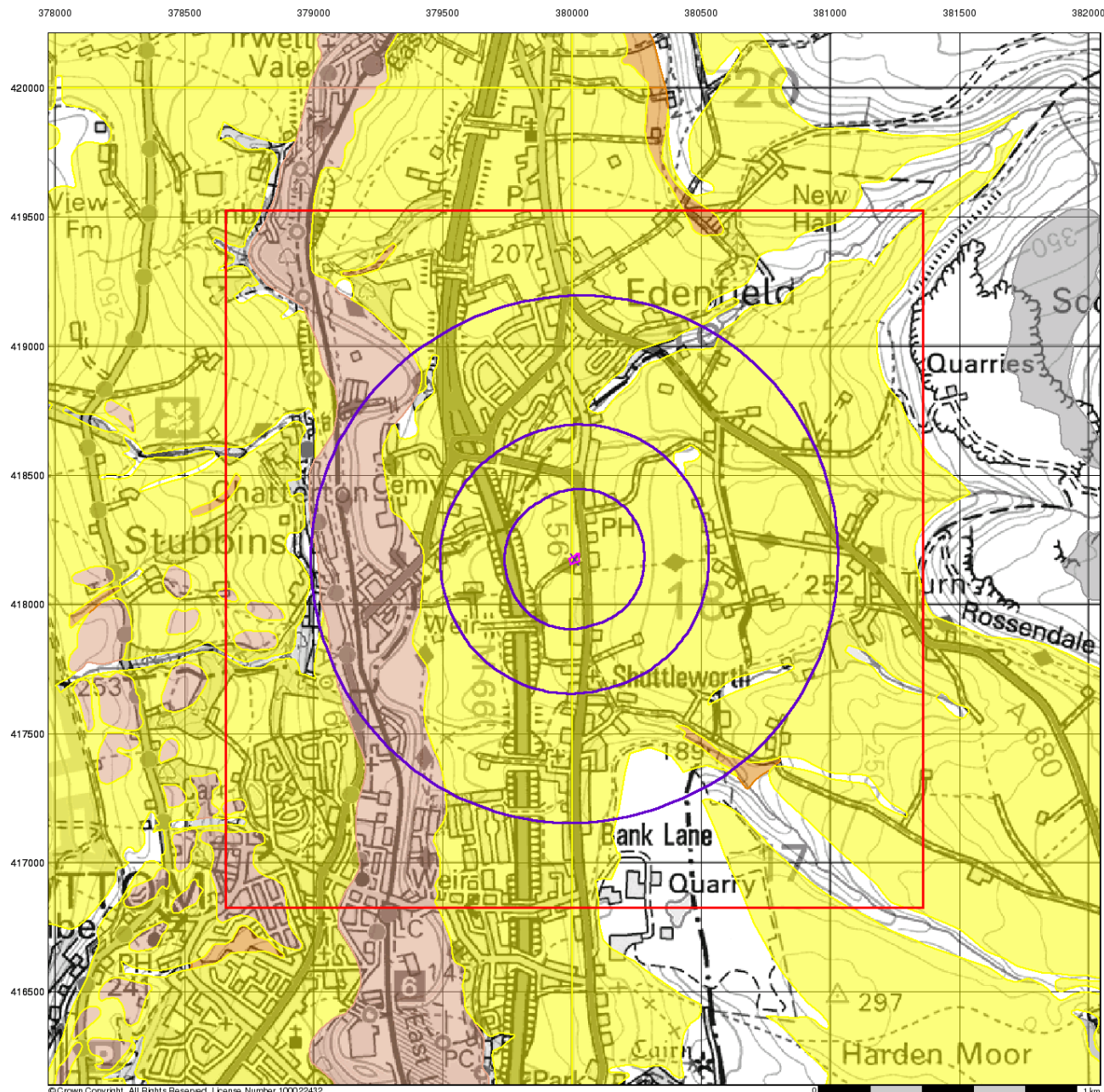
Order Number: 287431069_1_1
 Customer Ref: LKC 21 1608
 National Grid Reference: 380010, 418180
 Slice: A
 Site Area (Ha): 0.1
 Search Buffer (m): 1000

Site Details

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GROUP

Superficial Aquifer Designation

General

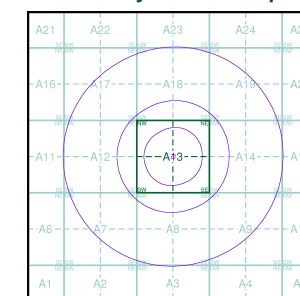
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

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

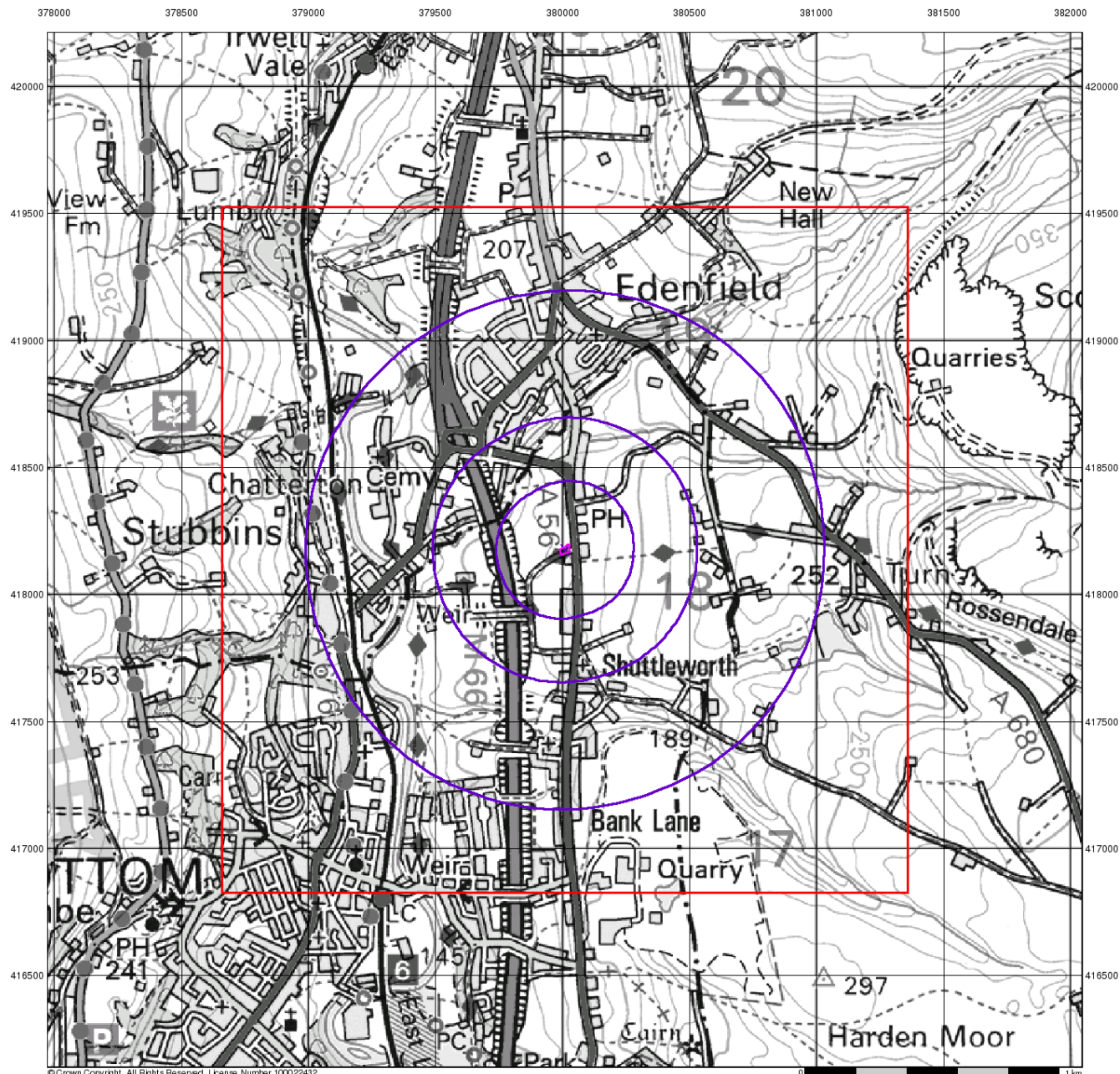
Order Number: 287431069_1_1
 Customer Ref: LKC 21 1608
 National Grid Reference: 380010, 418180
 Slice: A
 Site Area (Ha): 0.1
 Search Buffer (m): 1000

Site Details

Land adjacent to 391 Whalley Road, Ramsbottom, BURY, BL0 0ER

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GROUP

Source Protection Zones

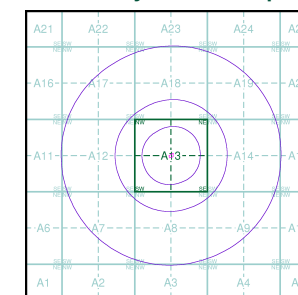
General

- 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

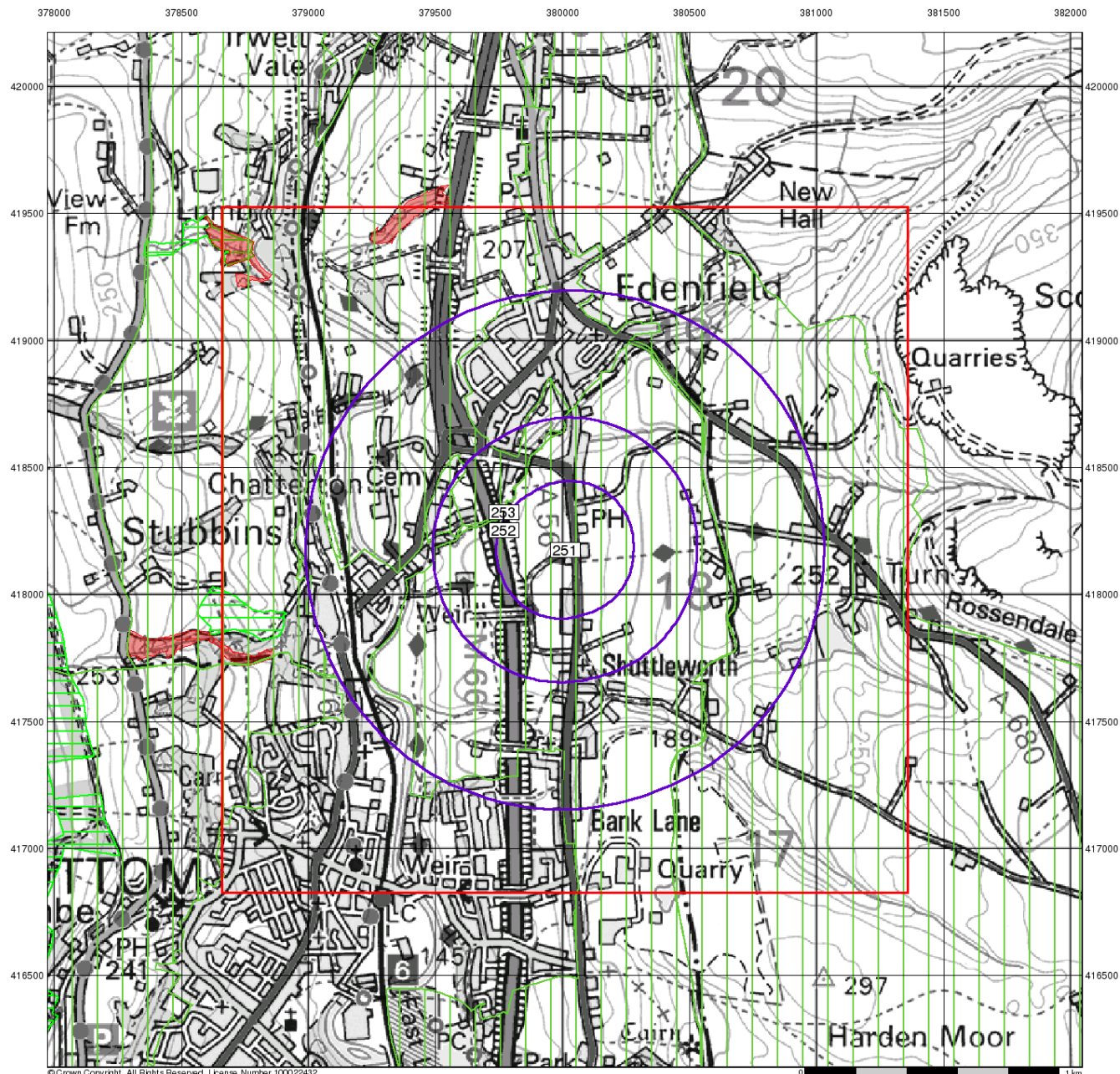
Order Number: 287431069_1_1
 Customer Ref: LKC 21 1608
 National Grid Reference: 380010, 418180
 Slice: A
 Site Area (Ha): 0.1
 Search Buffer (m): 1000

Site Details

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GROUP

Sensitive Land Uses

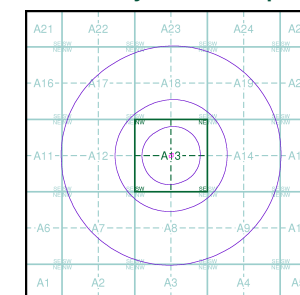
General

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

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice A



Order Details

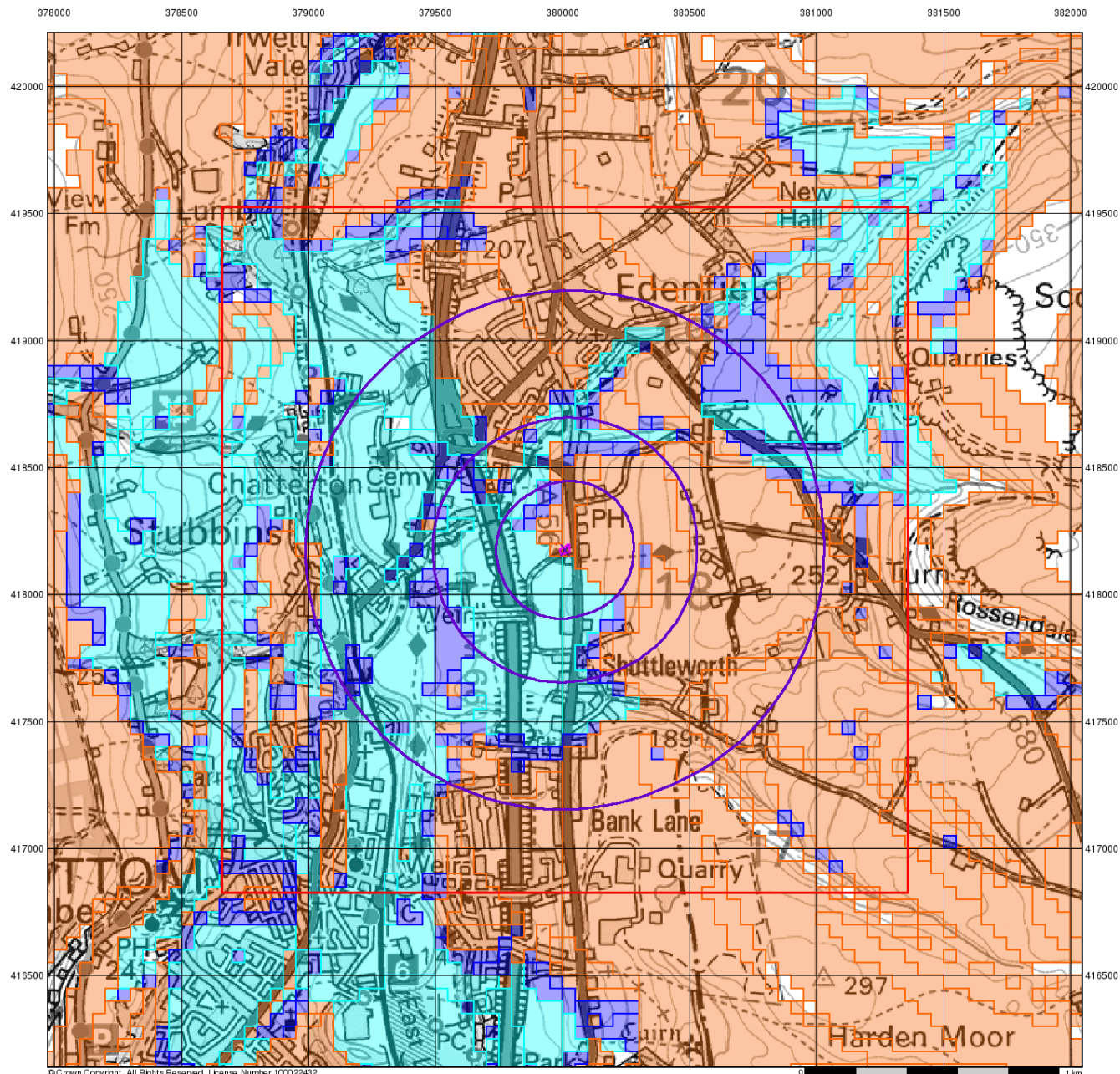
Order Number: 287431069_1_1
 Customer Ref: LKC 21 1608
 National Grid Reference: 380010, 418180
 Slice: A
 Site Area (Ha): 0.1
 Search Buffer (m): 1000

Site Details

Land adjacent to 391 Whalley Road, Ramsbottom, BURY, BL0 0ER

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GROUP

BGS Flood GFS Data

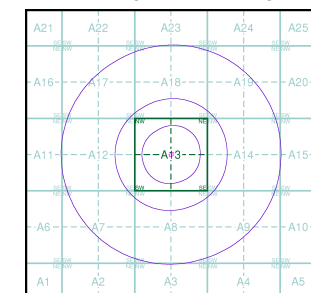
General

- 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: 287431069_1_1
 Customer Ref: LKC 21 1608
 National Grid Reference: 380010, 418180
 Slice: A
 Site Area (Ha): 0.1
 Search Buffer (m): 1000

Site Details

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Geology 1:50,000 Maps Legends

Artificial Ground and Landslip

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	MGR	Made Ground (Undivided)	Artificial Deposit	Not Supplied - Holocene
	WMGR	Infilled Ground	Artificial Deposit	Not Supplied - Holocene
	SLIP	Landslide Deposit	Unknown/Unclassified Entry	Not Supplied - Quaternary

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Not Supplied - Holocene
	TILLD	Till, Devensian	Diamicton	Not Supplied - Devensian
	GFDUD	Glaciofluvial Deposits, Devensian	Sand and Gravel	Not Supplied - Devensian
	HEAD	Head	Diamicton	Not Supplied - Quaternary
	RTD1	River Terrace Deposits, 1	Sand and Gravel	Not Supplied - Quaternary
	RTD2	River Terrace Deposits, 2	Sand and Gravel	Not Supplied - Quaternary
	PEAT	Peat	Peat	Not Supplied - Quaternary
	LDE	Lacustrine Deposits	Clay	Not Supplied - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	PLCM	Pennine Lower Coal Measures Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	PLCM	Pennine Lower Coal Measures Formation	Sandstone	Not Supplied - Westphalian
	WH	Woodhead Hill Rock	Sandstone	Not Supplied - Westphalian
	ROSSE	Rosendale Formation	Mudstone and Siltstone	Not Supplied - Namurian
	LH	Lower Haslingden Flags	Sandstone	Not Supplied - Namurian
	UH	Upper Haslingden Flags	Sandstone	Not Supplied - Namurian
	RR	Rough Rock	Sandstone	Not Supplied - Namurian

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	MARSD	Marsden Formation	Mudstone and Siltstone	Not Supplied - Namurian
	FLB	FLETCHER BANK GRIT	Sandstone	Not Supplied - Namurian
	BBS	Brooksbottoms Grit	Sandstone	Not Supplied - Namurian
	HSG	Helmshore Grit	Sandstone	Not Supplied - Namurian
	HLBG	Holcombe Brook Grit	Sandstone	Not Supplied - Namurian
	GSYG	Guiseley Grit	Sandstone	Not Supplied - Namurian
	MG	Millstone Grit Group [See also Migr]	Sandstone	Not Supplied - Namurian
		Faults		
		Rock Segments		



Geology 1:50,000 Maps

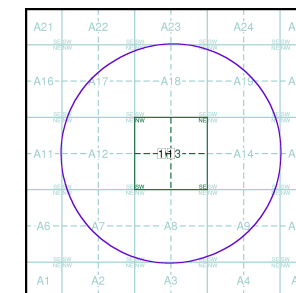
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published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

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

Geology 1:50,000 Maps Coverage

Map ID:	1
Map Sheet No:	076
Map Name:	Rochdale
Map Date:	2008
Bedrock Geology:	Available
Superficial Geology:	Available
Artificial Geology:	Available
Faults:	Not Supplied
Landslip:	Available
Rock Segments:	Not Supplied

Geology 1:50,000 Maps - Slice A

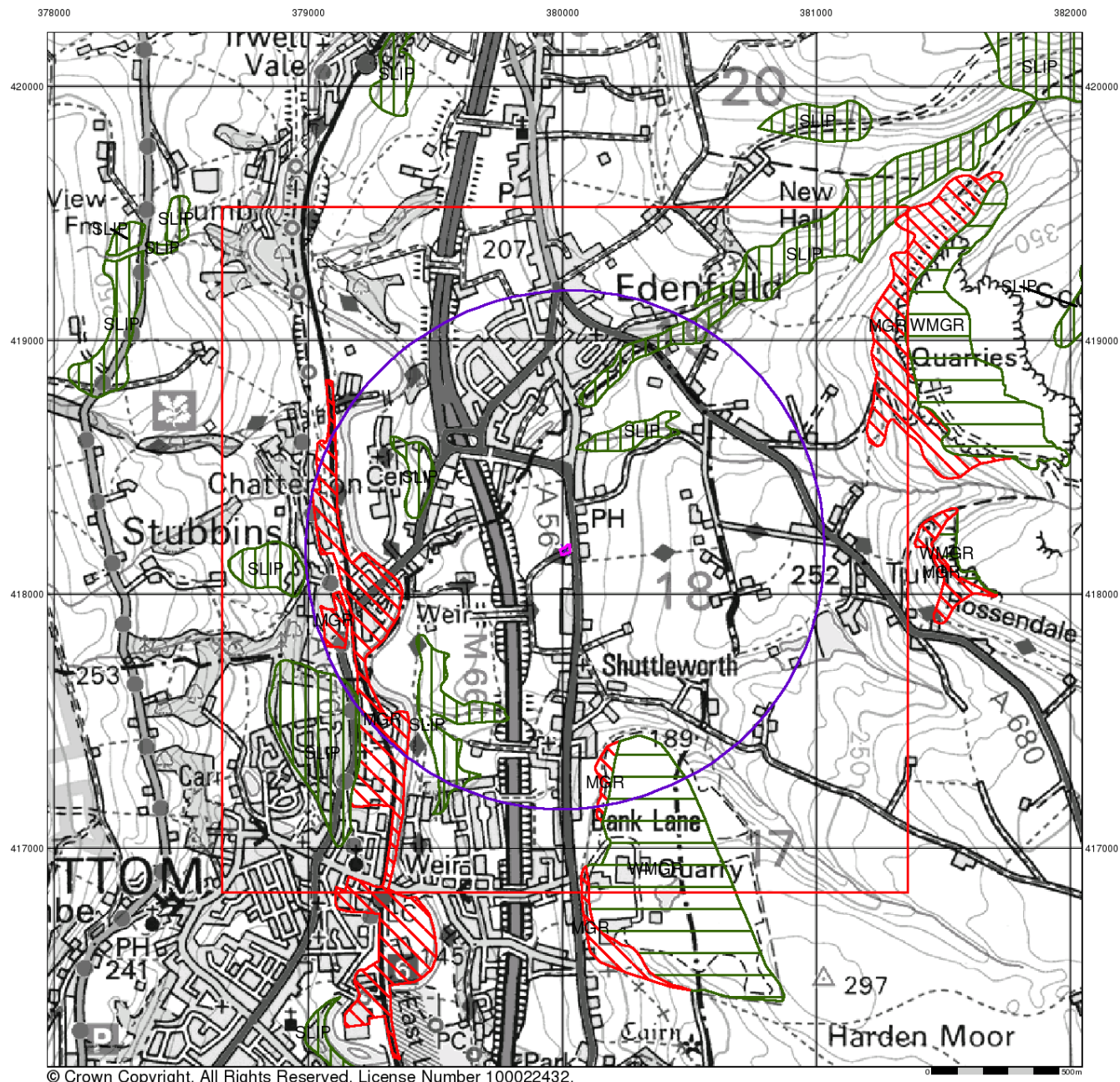


Order Details:

Order Number:	287431069_1_1
Customer Reference:	LKC 21 1608
National Grid Reference:	380010, 418180
Slice:	A
Site Area (Ha):	0.1
Search Buffer (m):	1000

Site Details:

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Artificial Ground and Landslip

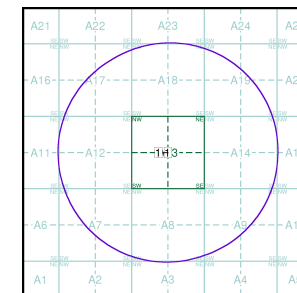
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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

Artificial ground includes:

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

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

Artificial Ground and Landslip Map - Slice A



Order Details:

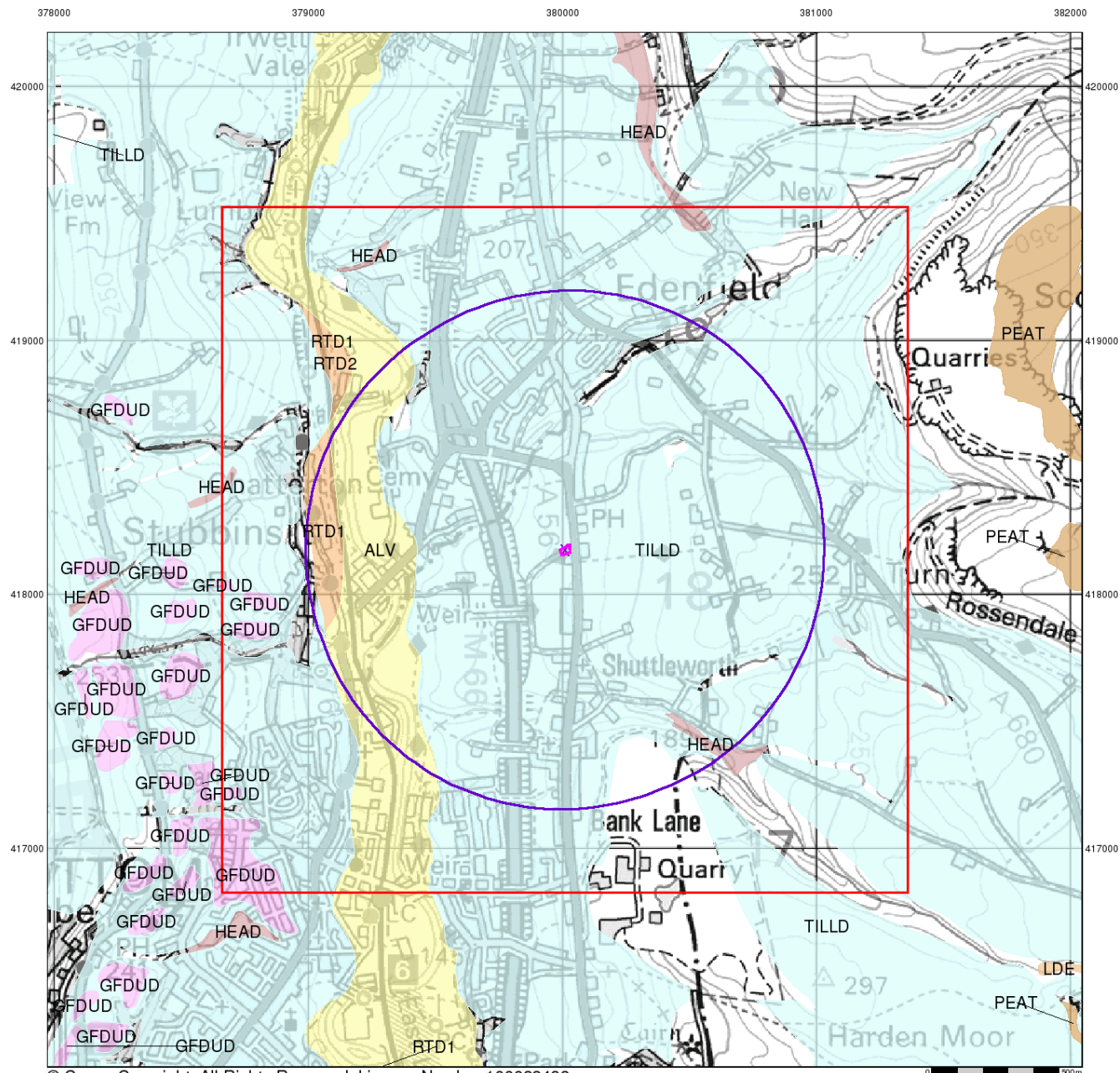
Order Number: 287431069_1_1
 Customer Reference: LKC 21 1608
 National Grid Reference: 380010, 418180
 Slice: A
 Site Area (Ha): 0.1
 Search Buffer (m): 1000

Site Details:

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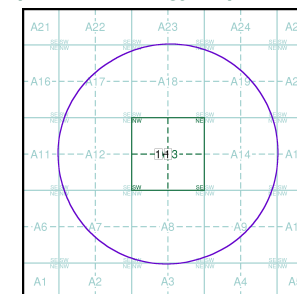
Superficial Geology

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

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

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

Superficial Geology Map - Slice A



Order Details:

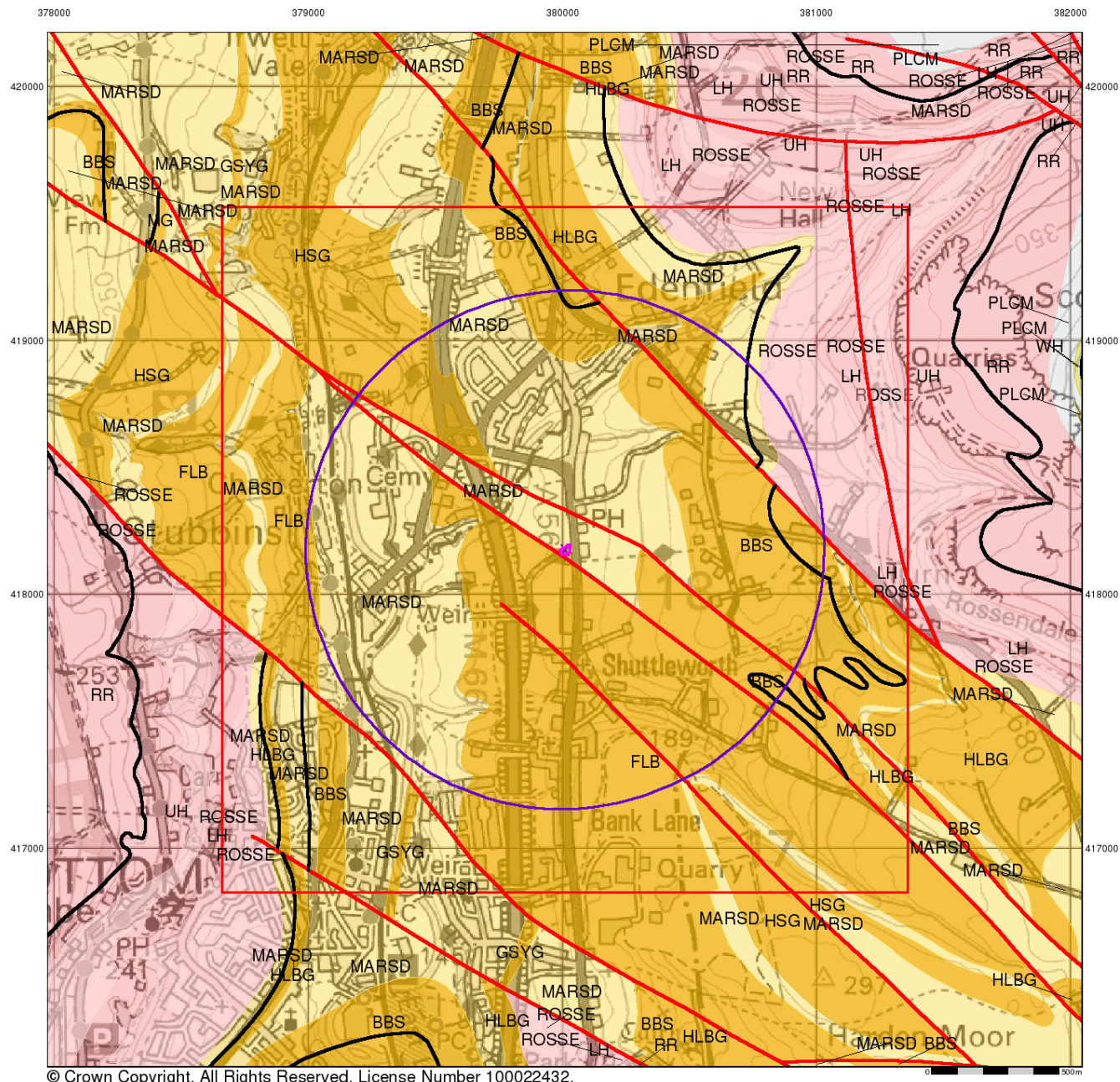
Order Number: 287431069_1_1
 Customer Reference: LKC 21 1608
 National Grid Reference: 380010, 418180
 Slice: A
 Site Area (Ha): 0.1
 Search Buffer (m): 1000

Site Details:

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Bedrock and Faults

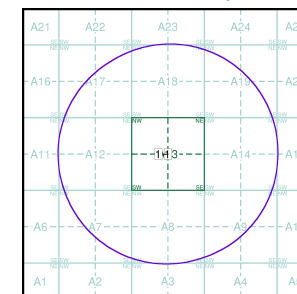
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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

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

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

Bedrock and Faults Map - Slice A



Order Details:

Order Number: 287431069_1_1
 Customer Reference: LKC 21 1608
 National Grid Reference: 380010, 418180
 Slice: A
 Site Area (Ha): 0.1
 Search Buffer (m): 1000

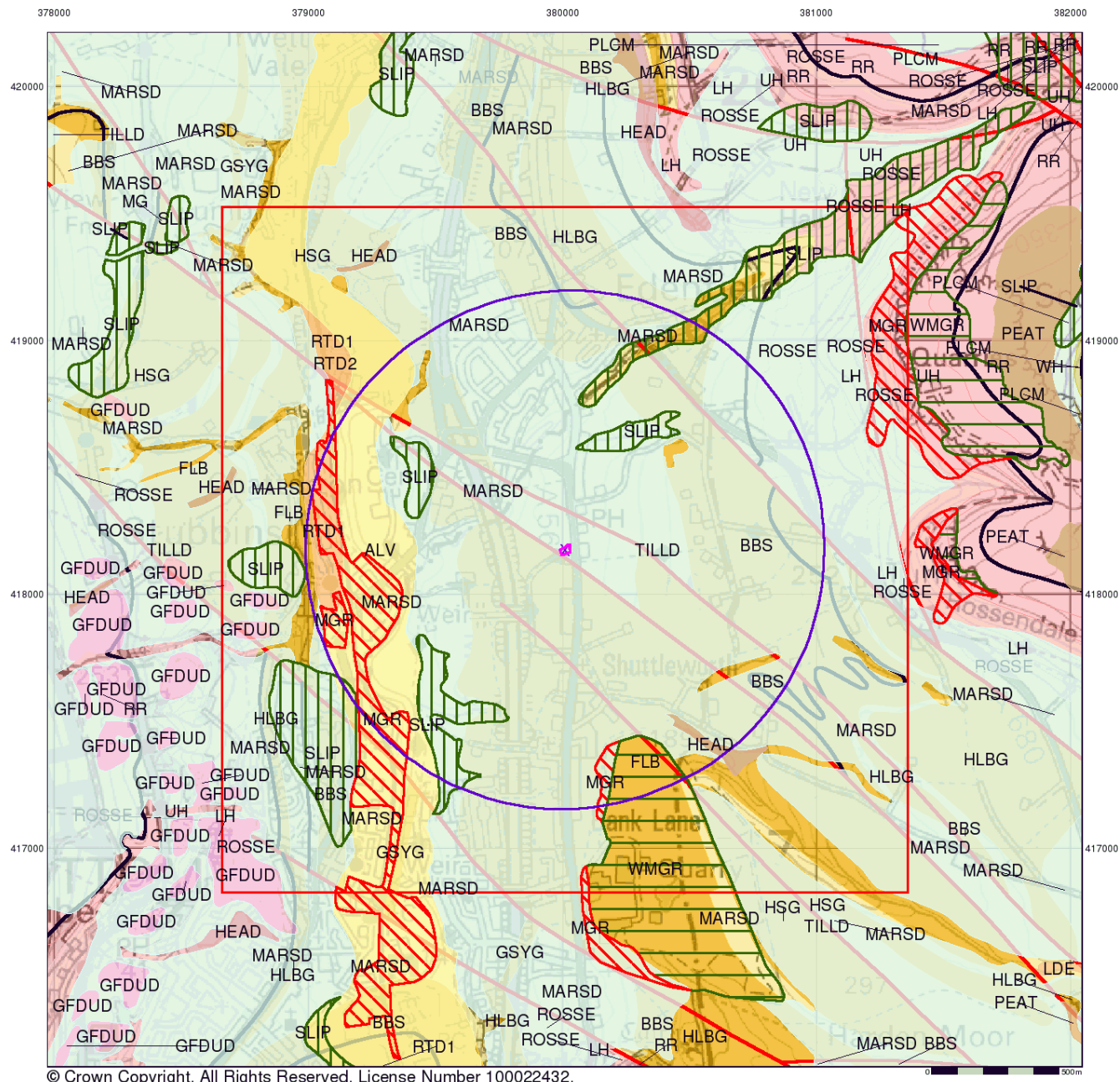
Site Details:

Land adjacent to 391 Whalley Road, Ramsbottom, BURY, BL0 0ER



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Combined Surface Geology

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

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

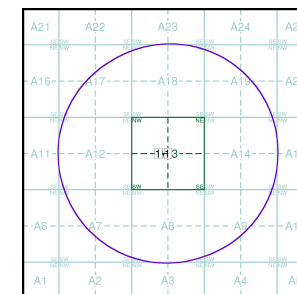
Additional Information

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

Contact

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

Combined Geology Map - Slice A



Order Details:

Order Number: 287431069_1_1
Customer Reference: LKC 21 1608
National Grid Reference: 380010, 418180
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 1000

Site Details:

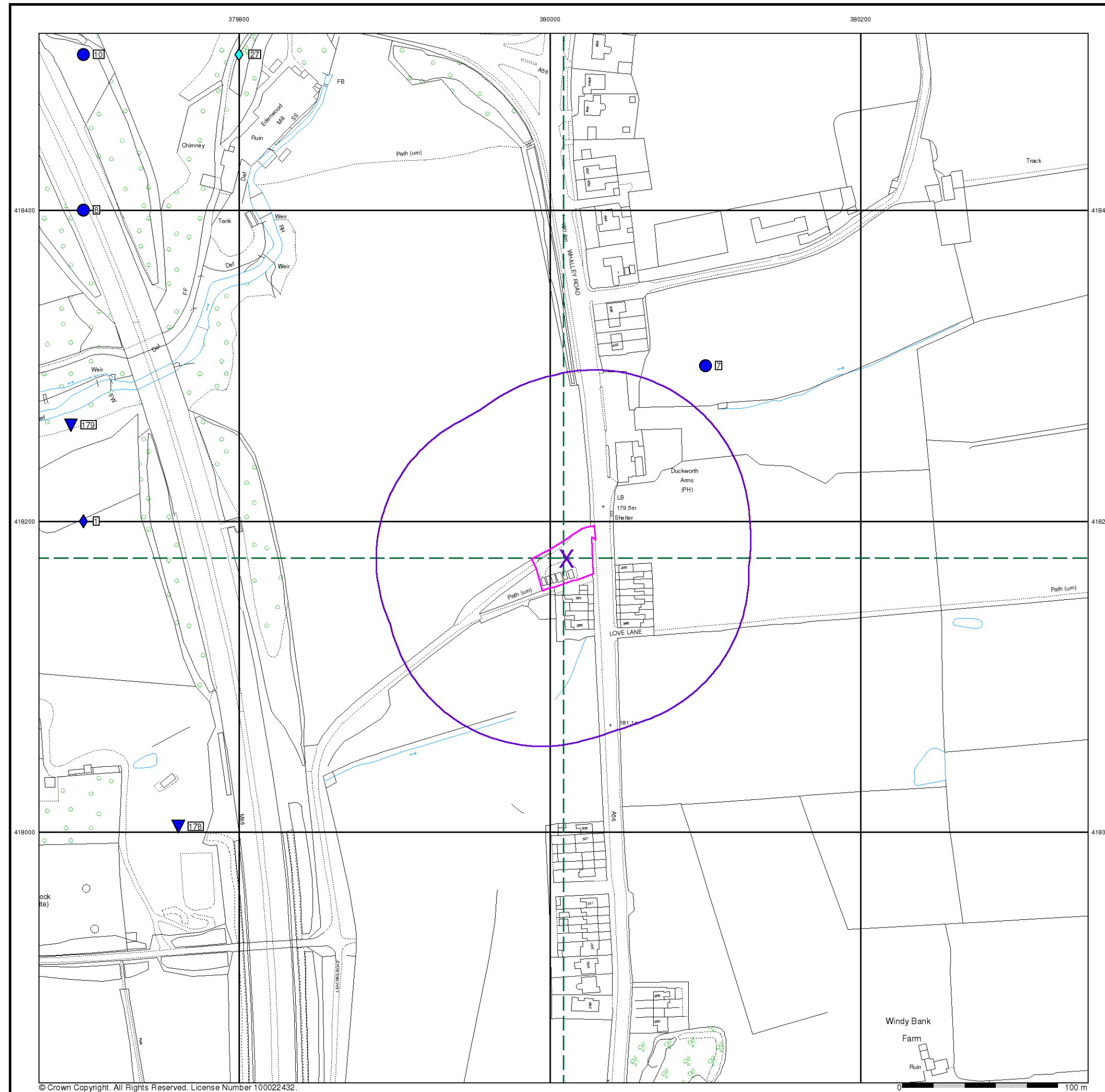
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General

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

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 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
- 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
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- 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

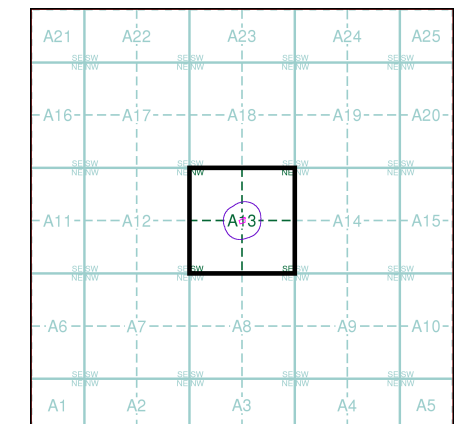
Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

Geological

- BGS Recorded Mineral Site

Site Sensitivity Map - Segment A13



Order Details

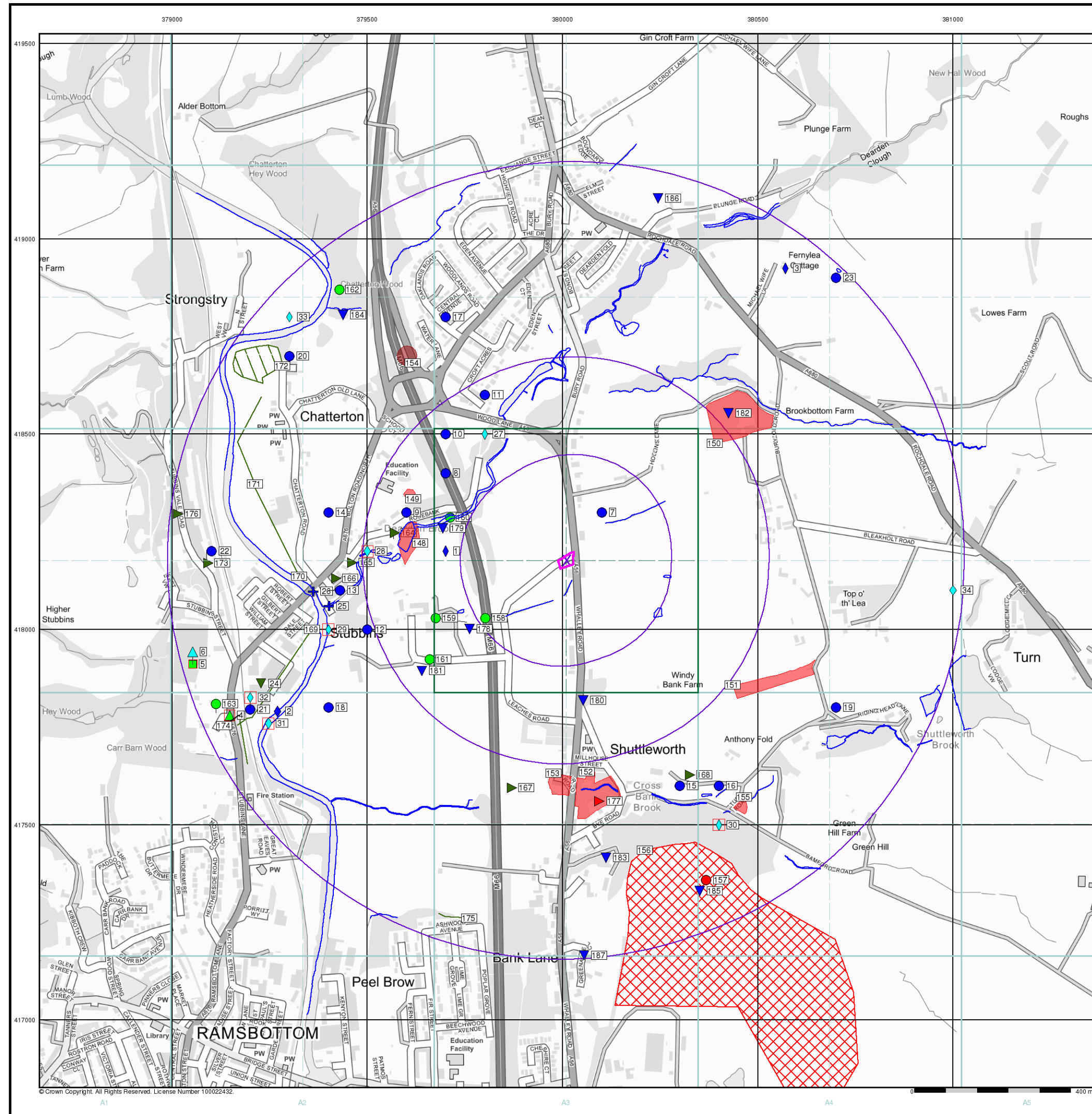
Order Number: 287431069_1_1
Customer Ref: LKC 21 1608
National Grid Reference: 380010, 418180
Slice: A
Site Area (Ha): 0.1
Plot Buffer (m): 100

Site Details

Land adjacent to 391 Whalley Road, Ramsbottom, BURY, BL0 0ER



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General

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

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

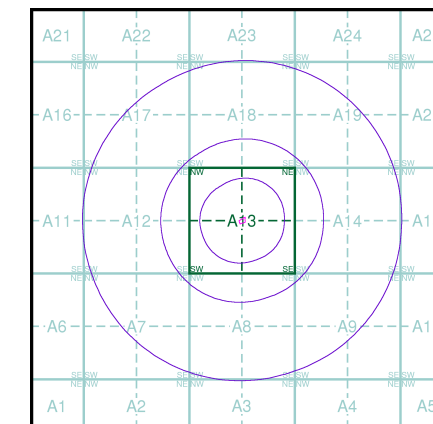
Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement
- BGS Recorded Mineral Site

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
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- 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

Site Sensitivity Map - Slice A



Order Details

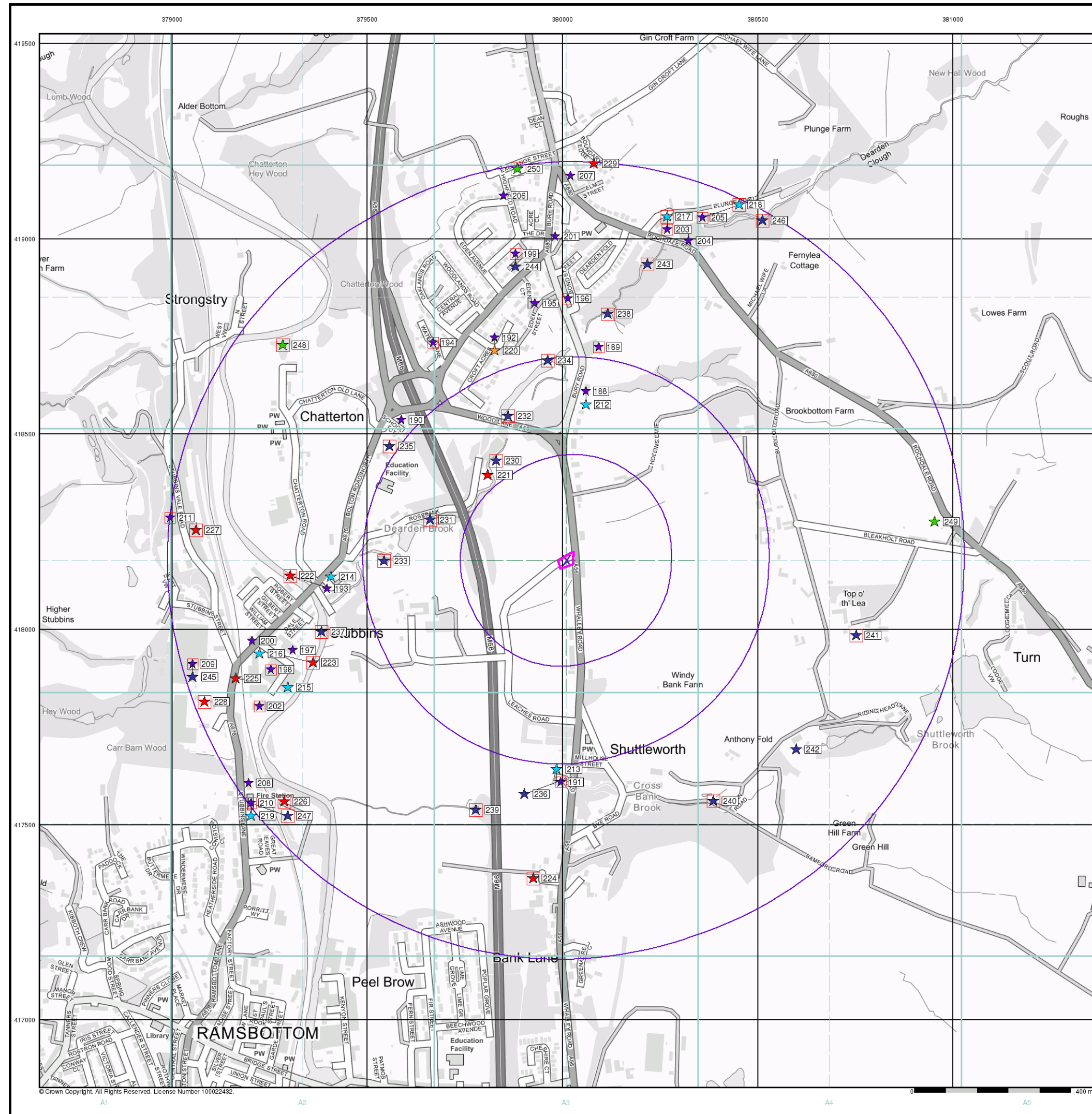
Order Number: 287431069_1_1
Customer Ref: LKC 21 1608
National Grid Reference: 380010, 418180
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 1000

Site Details

Land adjacent to 391 Whalley Road, Ramsbottom, BURY, BL0 0ER



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



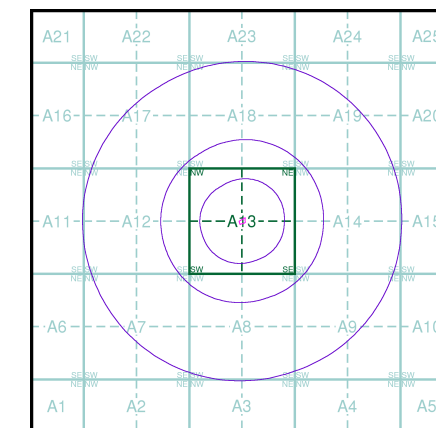
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LK GROUP

Industrial Land Use Map

- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Slice
 - Map ID
- Industrial Land Use**
- Contemporary Trade Directory Entry
 - Fuel Station Entry
 - Gas Pipeline
 - Points of Interest - Commercial Services
 - Points of Interest - Education and Health
 - Points of Interest - Manufacturing and Production
 - Points of Interest - Public Infrastructure
 - Points of Interest - Recreational and Environmental
 - Underground Electrical Cables

Industrial Land Use Map - Slice A



Order Details

Order Number: 287431069_1_1
Customer Ref: LKC 21 1608
National Grid Reference: 380010, 418180
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 1000

Site Details

Land adjacent to 391 Whalley Road, Ramsbottom, BURY, BL0 0ER

Landmark
INFORMATION GROUP

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



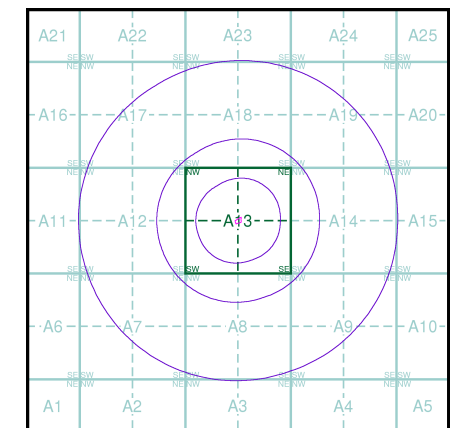
General

- 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

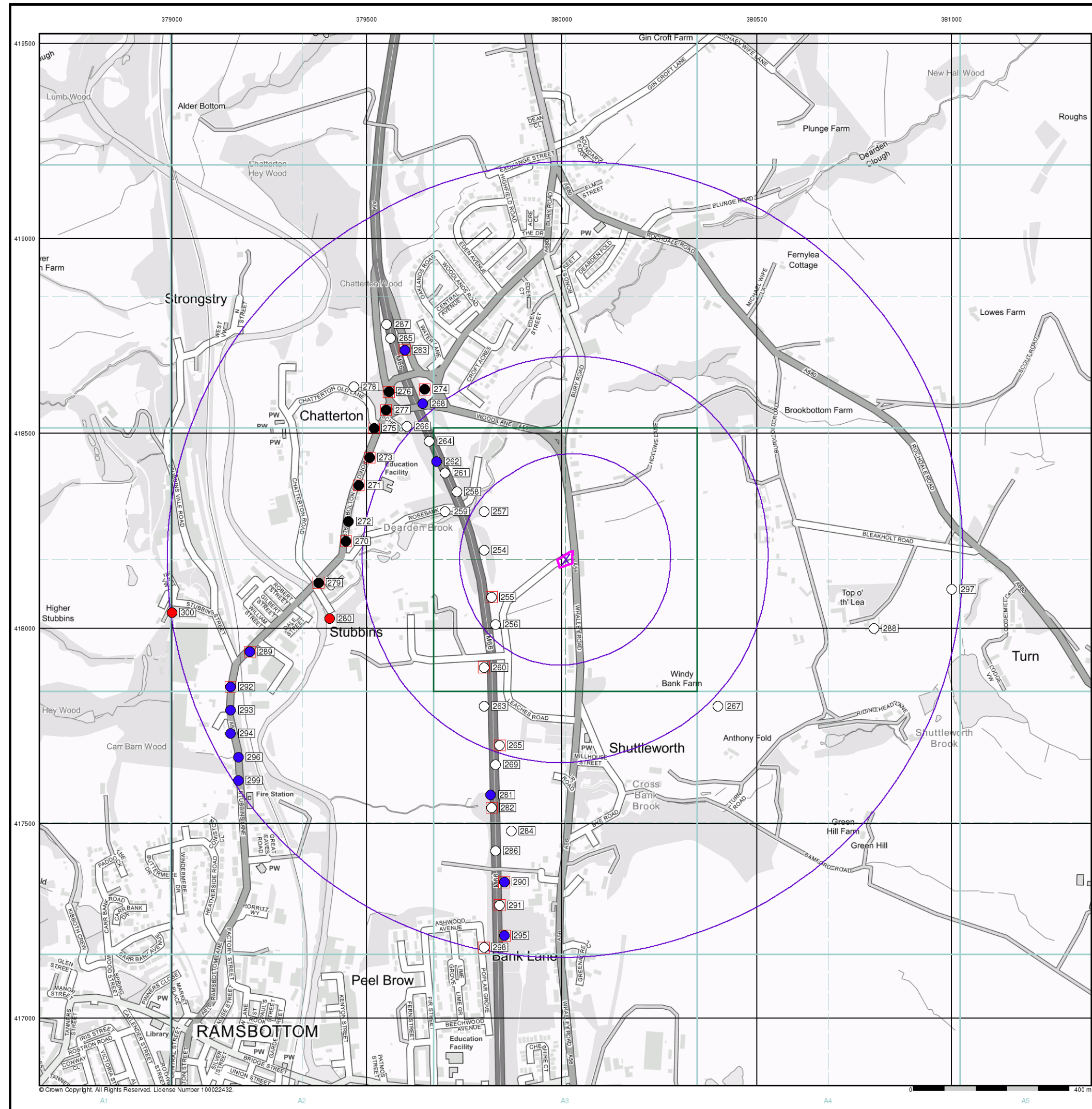
Order Number: 287431069_1_1
Customer Ref: LKC 21 1608
National Grid Reference: 380010, 418180
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 1000

Site Details

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General

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

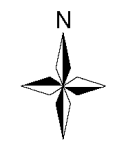
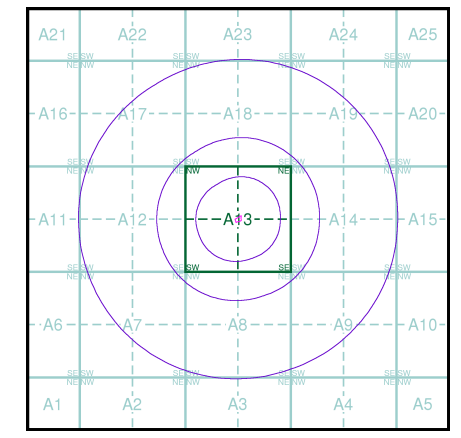
Agency and Hydrological (Boreholes)

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

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

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

Borehole Map - Slice A



Order Details

Order Number: 287431069_1_1
Customer Ref: LKC 21 1608
National Grid Reference: 380010, 418180
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 1000

Site Details

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Web: www.envirocheck.co.uk

General

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

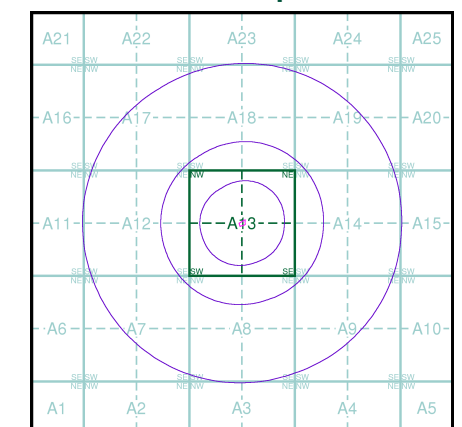
OS Water Network Data

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

Contours (height in meters)

- Standard Contour 105 100 95
- Master Contour
- Spot Height 167.3
- MLW Mean Low Water
- MHW Mean High Water

OS Water Network Map - Slice A

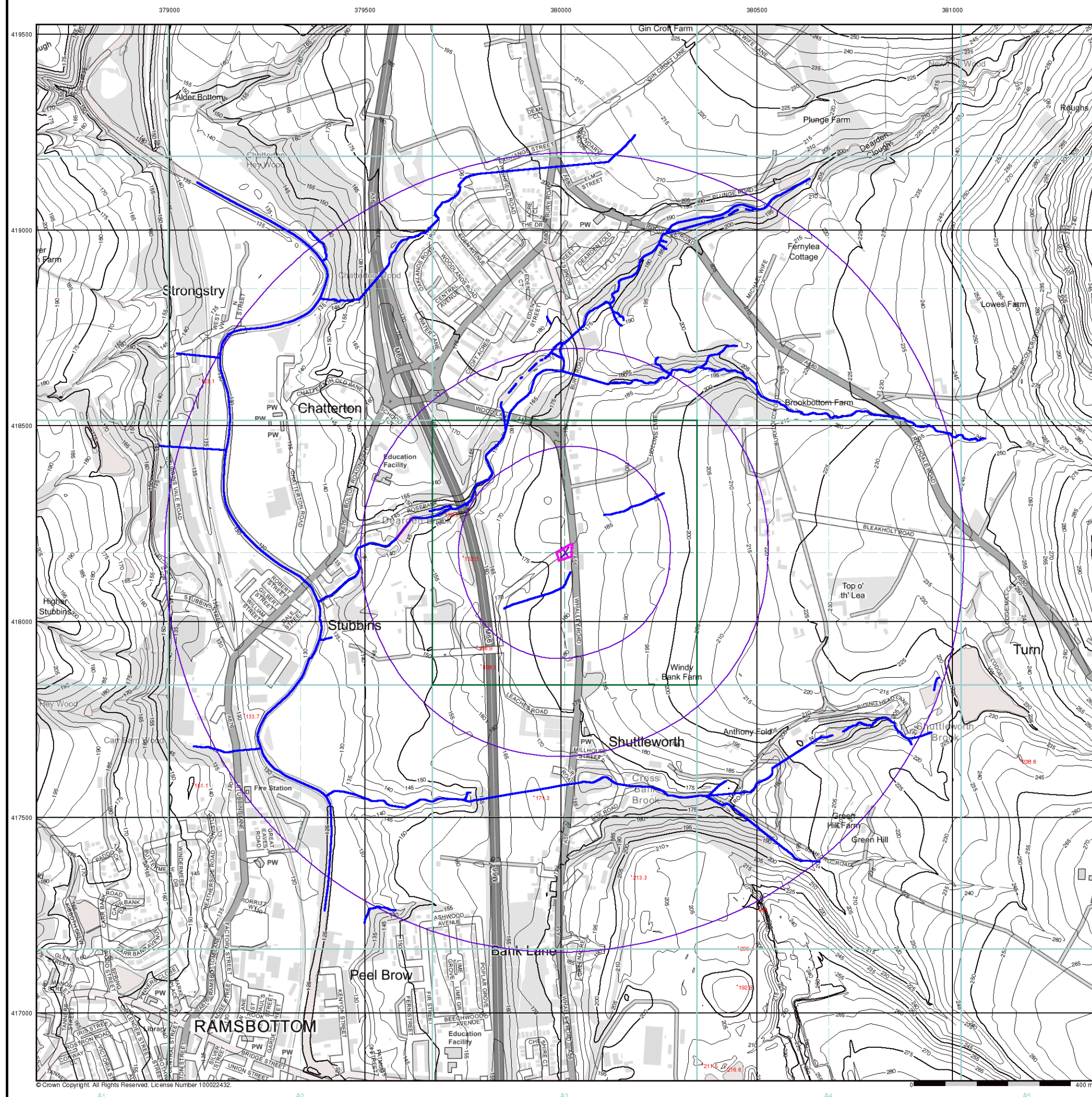


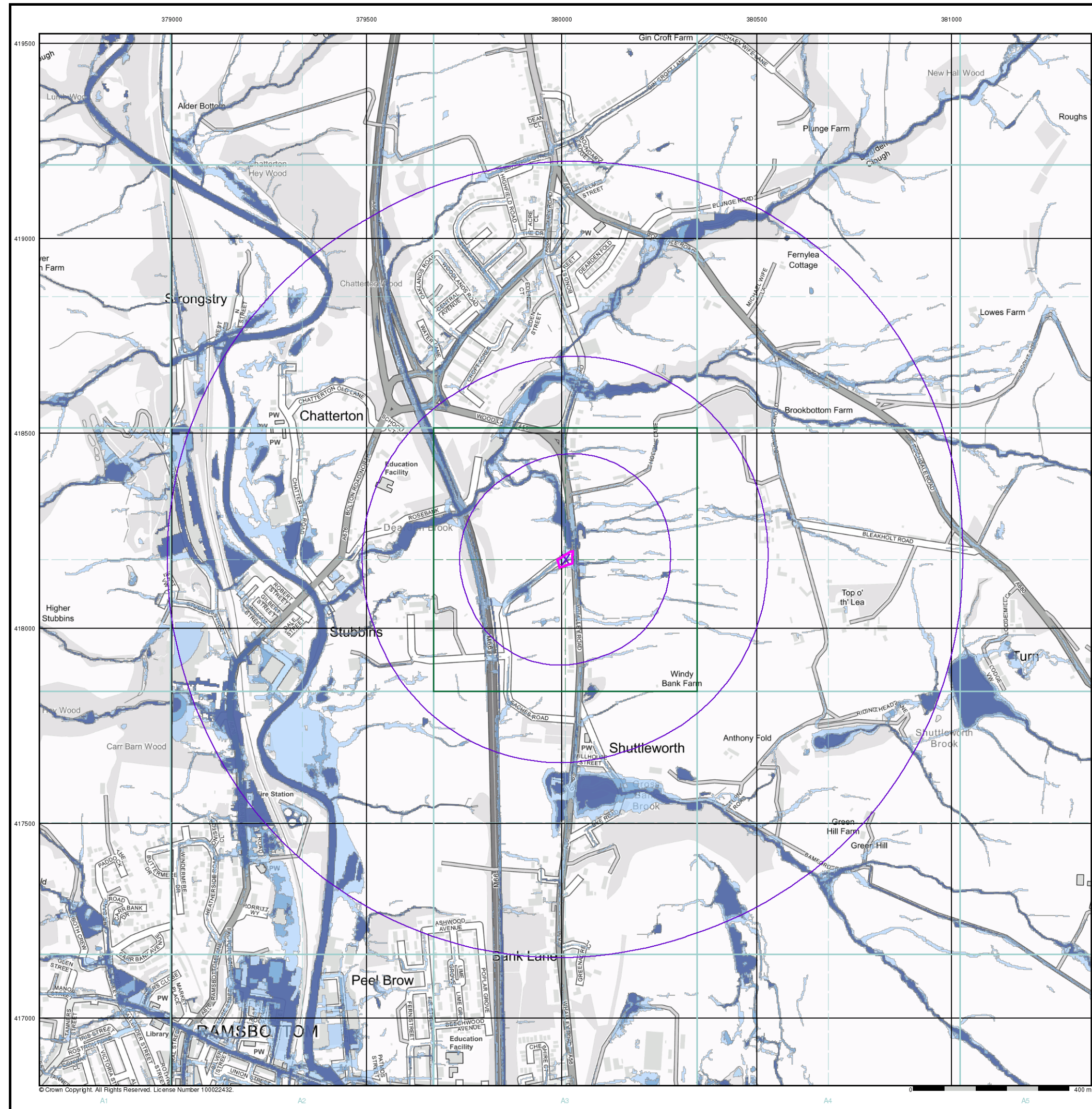
Order Details

Order Number: 287431069_1_1
 Customer Ref: LKC 21 1608
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Site Details

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General

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

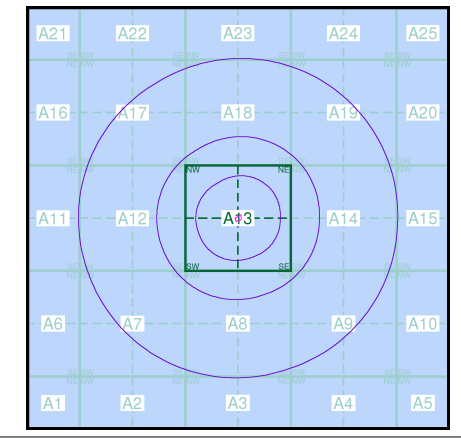
Risk of Flooding from Surface Water

- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

Suitability

- See the suitability map below
- National to county
 - County to town
 - Town to street
 - Street to parcels of land
 - Property

EA/NRW Suitability Map - Slice A



Order Details

Order Number: 287431069_1_1
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Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 1000

Site Details

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Appendix C

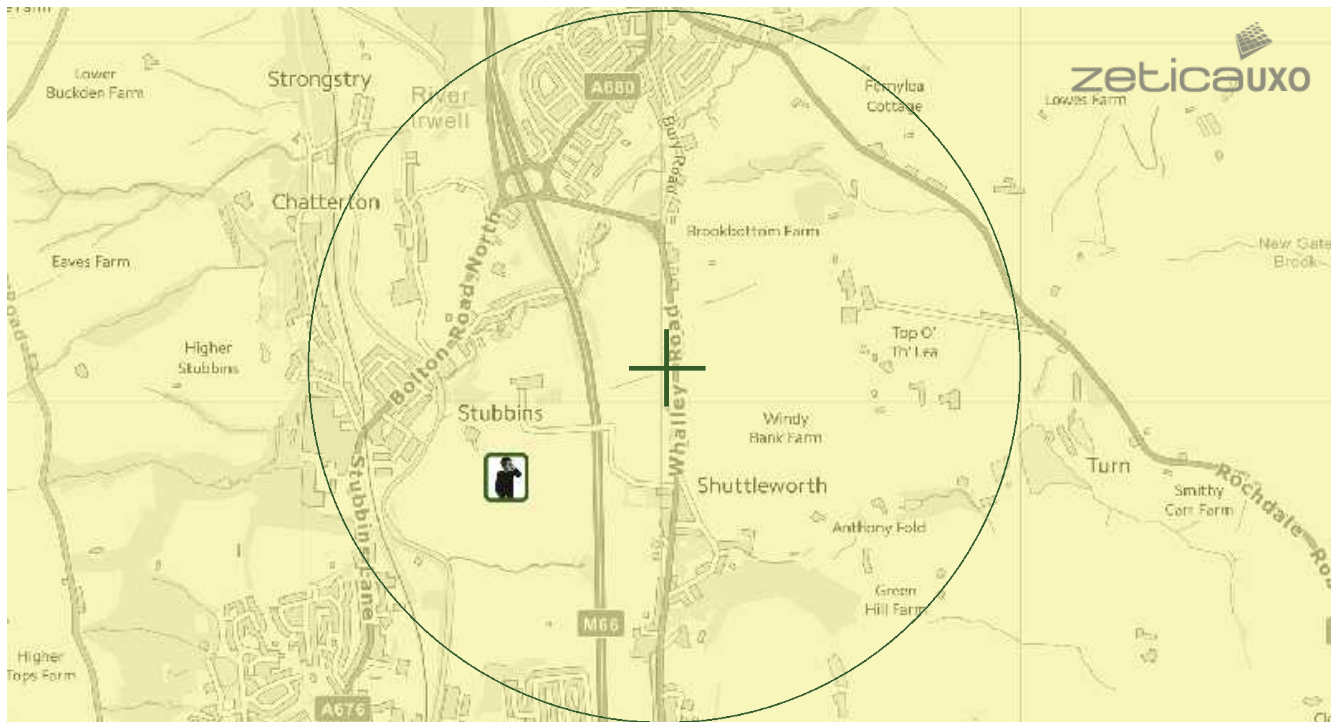
Zetica UXO Unexploded Bomb Risk Map

UNEXPLODED BOMB RISK MAP



SITE LOCATION

Map Centre: 380021,418098



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/>)

Zetica cannot guarantee the accuracy or completeness of the information or data used and cannot accept any liability for any use of the maps. These maps can be used as part of a technical report or similar publication, subject to acknowledgment. The copyright remains with Zetica Ltd.

It is important to note that this map is not a UXO risk assessment and should not be reported as such when reproduced.

*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 D

Risk Evaluation

Risk Evaluation

The method for risk evaluation is a qualitative method of interpreting the output from the risk estimation stage of the assessment, based on CIRIA 552¹⁵. It involves the classification of the:

- Magnitude of the potential consequence (severity) of the risk occurring (Table A).
- Magnitude of the probability (likelihood) of the risk occurring (Table B).

Consequence (Severity)		
Classification	Definition	Example
Severe	- Short term (acute) risk to human health likely to result in 'significant harm' as defined by the Environment Protection Act 1990, Part IIA. - Short term risk of pollution (note: Water Resources Act contains no scope for considering significance of pollution) of sensitive water resource. - Catastrophic damage to buildings/properties. - A short term risk to a particular ecosystem, or organism forming part of such ecosystem (note: the definition of ecological systems within the Draft Circular on Contaminated Land, DETR, 2000).	- High concentrations of cyanide on the surface of an informal recreation area. - Major spillage of contaminants from site into controlled waters. - Explosion, causing building collapse (can also equate to short term human health risk if buildings are occupied).
Medium	- Chronic damage to Human Health ('significant harm' as defined in DETR, 2000). - Pollution of sensitive water resources (note Water Resources Act contains no scope for considering significance of pollution). - A significant change in a particular ecosystem, or organism forming part of such ecosystem.	- Concentrations of a contaminant from site exceed generic, or site specific assessment criteria. - Leaching of contaminants from a site to a major or minor aquifer (Principal and Secondary). - Death of a species within a designated nature reserve.
Mild	- Pollution of non-sensitive water resources. - Significant damage to crops, buildings, structures and services ('significant harm' as defined in DETR, 2000). - Damage to sensitive buildings / structures / services or the environment.	- Pollution of non-classified groundwater. - Damage to building rendering it unsafe to occupy (e.g. foundation damage resulting in instability).
Minor	- Harm, although not necessarily significant harm, which may result in a financial loss, or expenditure to resolve. - Non-permanent health effects to human health (easily prevented by means such as personal protective clothing etc.). - Easily repairable damage to buildings, structures and services.	- The presence of contaminants at such concentrations that protective equipment is required during site works. - The loss of plants in a landscaping scheme. - Discoloration of concrete.

Table A: Classification of consequence.

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

Table B: Classification of probability.

¹⁵ CIRIA (2001). "Contaminated Land Risk Assessment: A Guide to Good Practice". C552.

These classifications are then compared to indicate the risk presented by each pollutant linkage (Table C). It is important that this classification is only applied where there is a possibility (which can range from high likelihood to unlikely) of a pollutant linkage existing.

		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

Table C: Comparison of consequence against probability.

Once the risk has been determined the corresponding action can be assessed (Table D).

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

Table D: Description of the classification and likely action required.

Where LKC identified a low to very low risk either limited intrusive investigation work, a watching brief (during construction work) or no investigation work will be recommended. This will be dependent on the nature of the site and the proposed development.

Where the risk falls into the moderate/low risk, LKC will undertake an assessment to establish what category the pollutant linkage will fall into (i.e. moderate or low risk will be chosen).

Where LKC identifies a moderate or higher risk intrusive work or precautionary remedial measures will be recommended.

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- » Geotechnical
- » Contaminated Land
- » Flood Risk and Drainage
- » Asbestos
- » Invasive Species
- » Land Remediation
- » Project Management
- » Land Drilling