

**LAND AT
HOLLINS FARM
BURY**

**PRELIMINARY
RISK ASSESSMENT**

(PHASE 1 DESK STUDY)



Prepared for:

C W Nield
Hollins House Farm
247 Hollins Lane
Bury
BL9 8AS

By:

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Date: March 2013

Ref: LKC 12 1111



LK Consult Ltd

Document Verification

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Prepared By	Rebekah Luker	Signature	
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CONTENTS

1	INTRODUCTION	1
2	SITE HISTORY	2
3	ENVIRONMENTAL SETTING	3
4	SITE RECONNAISSANCE	4
5	PRELIMINARY CONCEPTUAL MODEL	5
6	SUMMARY CONCLUSIONS AND RECOMMENDATIONS	10

FIGURES

Figure 1: Site Location Plan

Figure 2: Site Boundary Plan

Figure 3: Proposed Site Use

APPENDICES

Appendix A: Historical Maps

Appendix B: Envirocheck Report

Appendix C: Coal Authority Report

Appendix D: Historic BGS Logs

Appendix E: Site Reconnaissance Photographs

1 INTRODUCTION

1.1 Introduction

LK Consult Ltd (LKC) has been commissioned by C W Nield to carry out a Preliminary Risk Assessment (PRA) for land at Hollins Farm, Bury. The PRA was undertaken in support of a planning application (reference number 55816) to redevelop the site for a residential end use.

According to guidance set out in CLR11¹, GPLC1-3² and the National Planning Policy Framework (NPPF)³ a PRA with a site reconnaissance is required as a minimum to ascertain if there is a potential contamination risk.

In accordance with current guidance the PRA report will include a site reconnaissance, site history, geology, hydrogeology, hydrology and a landfill search (within 250m of the site boundary). Information gathered from the desk study and site reconnaissance will be used to develop a contamination conceptual model for the site, which will support the identification and assessment of any pollutant linkages. Based on the findings of the PRA an appropriate site investigation can be derived, if required, once planning approval has been granted.

1.2 Background

A summary of site settings is presented in Table 1-1. Figures 1 and 2 indicate the site location and boundary. Figure 3 indicates the proposed development.

Location	South of Hollins Lane, in the area of Bury. National Grid Reference 381410E 408020N.
Area	0.26Ha.
Topography	Approximately 100 meters above ordnance datum (AOD). Site slopes down to the north east.
Land Use	<u>Site</u> The site is split into two areas: - Cobbled farmyard surrounded by farm buildings (barns) to the north and northwest. - Residential property to the east (farmhouse) with associated gardens to the east and south of the site. <u>Surrounding Area</u> North: Hollins Road. South: Bury Golf Course. East: Residential properties. West: Car park.
Proposed Development	Demolition of existing barns in the north and west and replacement with new residential housing (predominantly in the footprint of the previous buildings), including driveway and gardens. Farmhouse and associated gardens will remain relatively unchanged.

Table 1-1: Summary of site details for land at Hollins Farm, Bury.

¹ EA (2004). "Model Procedures for the Management of Land Contamination." R&D Publication CLR 11

² EA (2010) "Guiding principles for land Contamination." GPLC1-3.

³ DCL (2012). "National Planning Policy Framework." Department of Communities and Local Government. March 2012.

2 SITE HISTORY

In compiling the site history, LKC consulted mapping and other environmental data provided by the Landmark Information Group Ltd. Copies of relevant historical plans are provided in Appendix A and are summarised Table 2-1. Notable features within 100m of the site boundary have been presented (distances will be approximate). The exception to this will be features within 250m that could be infilled historically.

Site Features	Location	Map Dates Present	Comments
Hollins House Farm	Whole site	1848- 2012	-Buildings to the north and west of the site, one building in the centre of the site. A number of small buildings to the west of the site are only marked until 1992 mapping. -Pump/ well marked on 1893 and 1910 mapping.
Surrounding Area Features	Distance/ Location	Map Dates Present	Comments
Residential	Adj. E & W	1848- 2012	-Properties to the east from 1893 mapping.
Pond	100m E	1851- 1955	-Potentially infilled by 1957 mapping.
Well	190m SW	1893- 1957	-Potentially infilled by 1963 mapping.
Embankment	10m E	1893- 1994	-Associated with Hollins Lane.
Bowling Green	65m N	1930- 2012	-Embankments marked adjacent to the north and south of the bowling green on 1957 mapping.
Drain	Adj. S	1957- 1992	-Running east-west parallel to the southern site boundary.
Drain	10m SE	1957- 2012	
Allotment Gardens	30m NW	1957	-Only annotated on this map. Residential properties on this site from 1970 mapping.
Pond	80m N	1965- 1974	-Potentially infilled by 1983 mapping.

Table 2-1: Summary of historical features for land at Hollins Farm, Bury.

3 ENVIRONMENTAL SETTING

In compiling this Section, LKC consulted environmental information provided by an Envirocheck Report (Appendix B), Natural England, the Coal Authority (Appendix C), the British Geological Survey (BGS) and the Environment Agency. A summary is presented in Table 3-1.

Summary of Environmental Settings			
Geology	Superficial		-Glaciofluvial Deposits of Sand and Gravel.
	Bedrock		-Carboniferous Pennine Middle Coal Measures.
	Faulting		-None within 250m.
	BGS logs		-None within 250m.
Hydrogeology	Aquifer Designation	Superficial	-Secondary A.
		Bedrock	-Secondary A.
	Groundwater abstractions		-None within 500m.
Hydrology	Nearest surface water		-Drains adjacent to south and approximately 30m south. -Parr Brook approximately 200m south.
	Flooding		-Not identified to be within a flood risk zone.
	Surface water abstractions		-None within 500m.
	Discharge consent		-Nearest 443m NE: Hexion Speciality Chemicals UK Ltd and Borden Chemicals (UK) Ltd; sewage disposal works.
	Pollution Incidents		-None within 250m.
Mining	Coal Mining Referral Area		-Standing Advice.
	Coal Report		-The property is not within the likely zone of physical influence on the surface from past underground workings. -No shafts present within 20m of the site.
	Mineral Abstraction		-3 sites within 1km. -Nearest 910m NE: Hollins Sand Pit, sand by opencast methods, operation ceased.
Ground Stability Hazards (on site)			-Potential for collapsible ground- very low hazard. -Potential for compressible ground– no hazard. -Potential for ground dissolution– no hazard. -Potential for landslide ground- very low hazard. -Potential for running sand- very low. -Potential for shrinking/ swelling clay– no hazard.
Landfill sites (within 250m)	Known/Registered		-None within 250m.
	Potential		-Well on site, potentially infilled by 1922 mapping. -2 ponds (80m N and 100m E). Nearest potentially infilled by 1983 mapping.
Radon			-Probability of <1% of homes above Action Level. -No further action required.
Designated Sites			-Adopted Green Belt 6m SE. -Local Nature Reserve 49m NE.
Contemporary Trade Directory			-None within 250m.

Table 3-1: Summary of environmental setting for land at Hollins Farm, Bury.

4 SITE RECONNAISSANCE

A site reconnaissance of the study site area was carried out by LKC on the 14th March 2013. Photographs are provided in Appendix D.

The site was accessed off Hollins Lane through a gate into the former farm yard (Appendix D, Photograph 1). The area of the proposed development is currently derelict farm buildings (Appendix D, Photographs 2 to 5). The site is bounded to the north by Hollins Lane, to the south by Bury Golf Course, by residential properties to the east and by a car park to the west. The site was observed to be slightly elevated above the surrounding land.

Ground cover across the site is mainly hardstood with cobbles in the farm yard. There were some areas of soft landscaping to the north east and south of the site, which are gardens for the existing property. There is a manhole cover towards the north west of the farm yard.

The farm yard buildings were in a state of disrepair and were not deemed safe for access. The building to the north west of the site was supported by scaffolding, as the south of the building had collapsed. There was an open door, to the north of the building, through which it could be seen that the building was empty. A wooden staircase could be seen to the north of this building, leading to a second floor.

No evidence of farm equipment or machinery was observed. There was evidence that a small fire had been set on the cobbles towards the north of the farm yard. Some wood was being stored in the farm yard, and a small box of rubbish. No fuel stains or leakages were noted within the farm yard. LKC saw no evidence of the well marked on historic mapping.

Anecdotal information from the tenant indicated that historically there may have been a tank(s) towards the north east of the site in the current garden area. Also, there used to be a culvert towards the north east of the site, which ran into fields to the north of the site. The culvert has been gone for some time, and no evidence of the former culvert can be observed on site.

There was evidence of some made ground towards the west of the site where a section of the farm yard building had collapsed. This comprised a sandy soil with some brick fragments and occasional ash.

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 CLR11⁴. 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

Hollins House Farm has occupied the site since 1893 mapping, and the majority of farm buildings still remain on site associated with the farm yard. It is likely that some demolition of small buildings/ extensions has occurred historically.

There is a potential risk from hydrocarbon (fuel, oils, lubricants) contamination from potential tanks; machinery and vehicles which may have been historically stored/ maintained on site. There may also be a risk from algicides, pesticides and fungicides if the farm buildings were historically used for storage of these substances. The site reconnaissance did not identify any tanks; however, anecdotal evidence suggests that tanks may have been present towards the north east of the site.

Made ground was observed in the western area of the site comprising predominantly demolition rubble with some ash. Ash and clinker, from hearths and boilers, was often used historically as a level raising material. There may also be some made ground on site associated with the infilling of the well and former culvert. Contaminants may include heavy metals (such as arsenic and lead) and Polycyclic Aromatic Hydrocarbons (PAHs), such as benzo(a)pyrene (BaP)⁵. Depending upon the sulphate content of the combusted coal, soluble sulphate may also be generated. In addition, asbestos containing materials (ACMs) may be present associated with the current and former buildings onsite.

It should be noted that potential contamination is likely to be limited to the area of the former working areas of the farm i.e. the buildings, farm yard and the area of the tanks. Contaminants across the rest of the site including the current residential property and associated gardens are likely to be limited.

The immediate surrounding areas have been developed for residential usage to the east and west, Bury Golf Course to the south, and the land to the north remains undeveloped farm land. LKC do not consider that the surrounding areas will be a significant source of contamination to the site.

The Envirocheck Report has not identified any known/licensed landfill sites within 250m of the study site. A review of the historical OS mapping by LKC has identified two potentially

⁴ Defra (2004). "Model Procedures for the Management of Land Contamination." R&D Publication CLR 11

⁵ Defra (2002). "Potential Contaminants for the Assessment of Land." R&D Publication CLR 8

infilled ponds within 250m of the site. In addition, there is a potentially infilled well and culvert on site. There may also be a risk of ground gas to the site from the underlying coal measures.

Hazardous gas generation can also occur from made ground on the site; however, this is strongly dependent upon its quantity and composition. If significant amounts of putrescible or degradable material is found on site hazardous gas generation may be possible.

5.3 Potential Pathways

Principal potential pathways associated with human health from soil contamination are ingestion, dermal and inhalation. The current UK technical report document⁶ recognises ten such pathways comprising four ingestion, two dermal and four inhalation. These are listed as follows:

- 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

The proposed end-use follows a standard conceptual model of 'residential'. For this land use scenario all ten of the pathways will have to be considered.

Surface water and groundwater are principal mechanisms for the migration of contaminants, with rainwater infiltrating through contaminated material and contamination possibly going into solution. Contaminated water may then find preferential pathways to surface waters and underlying aquifer.

Culverts, ditches, drains, service drains may provide preferential pathways off site. During the site reconnaissance a manhole cover was noted towards the north west of the farm yard, and anecdotal information suggests that a culvert used to be present to the north east of the site. The former well identified on historic mapping may also be a pathway for contaminants.

Bedrock and superficial geology has the potential to impede or provide preferential pathways for contaminants onto or off site.

The study site may be located on glaciofluvial superficial deposits of Sand and Gravel. This deposit has the potential via pore space, to allow migration of contaminants onto or off site.

The site is situated on Pennine Middle Coal Measures of Mudstone, Siltstone and Sandstone. Depending on the pore space and bedding orientation, this may act as a pathway for contaminants onto or off-site.

There are no known geological faults within 250m of the study site.

⁶ EA (2008). "Updated Technical Background to the CLEA Model." Science Report – SC050021/SR3.

5.4 Potential Receptors

Potential receptors with respect to human health and hazards present on the site include:

- Human Health: Future site residents.
- Controlled Waters: Underlying Secondary A Aquifer and surface water.
- Buildings and Services: Organic/corrosive contaminants that could affect integrity of building materials and service pipes.
- Flora: Within future gardens.

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 guidance⁷) should be adopted by all workers involved with site enabling and construction works. Therefore, this receptor is not considered in the contamination conceptual model.

5.5 Preliminary Contamination Conceptual Model

The preliminary contamination conceptual model for Hollins Farm, Bury, is illustrated in Table 5-1 below and has identified seven generic potential pollutant linkages, seven of which are considered possible at this stage.

Each linkage is discussed below along with an assessment of the likelihood of each linkage considering the available data and the nature of the development. This conceptual model is based upon contaminant-pathway-receptor pollutant linkages, on the premise that if there is no pollutant linkage then there will be no risk to the receptor⁸.

Pollutant Linkage No.	Contaminant					Pathway	Receptor
	ACM	Gases		Contaminants			
		Hazardous	Ground	Organic	Inorganic		
PL1	?	x	x	?	?	-Dermal contact. -Ingestion of soils and vegetables. -Inhalation of soil, fibres and dust.	-Future site residents.
PL2	x	x	x	?	x	-Inhalation of vapours. -Vapour migration through permeable strata.	-Future site residents.
PL3	x	?	?	x	x	-Inhalation of hazardous/ ground gas. -Migration through permeable strata. -Explosion in confined spaces.	-Future site residents. -Building structure.
PL4	x	x	x	?	?	-Groundwater migration through permeable strata. -Perched waters migration on site.	-Secondary A Aquifer. -Surface water.
PL5	x	x	x	x	?	-Contact with potential hazards.	-Site buildings.
PL6	x	x	x	?	?	-Ingestion of tainted water supply. -Corrosion of metal pipework.	-Future site residents. -Pipework.
PL7	x	x	x	x	?	-Root uptake of phytotoxic contaminants.	-Flora in future landscaping.

Table 5-1 Contamination Conceptual Model for land at Hollins Farm, Bury.

(Key: ? – pollutant linkage possible; x – pollutant linkage unlikely)

⁷ HSE (1991). "Protection of workers and the general public during development of contaminated land" London HMSO.

⁸ EA (2004). "Model Procedures for the Management of Land Contamination." R&D Publication CLR 11

5.5.1 Pollutant Linkage 1

Pollutant linkage 1 refers to the potential asbestos, heavy metals and organic contaminants, such as PAHs and petroleum hydrocarbons coming into direct contact with future site residents. Given the former and current uses of the site, the potential contamination is expected to be predominantly in the north and north west areas of the site, associated with the working areas of the farm (yards, buildings and possible tanks), rather than the main farm house and gardens to the south and east.

5.5.2 Pollutant Linkage 2

Potential pollutant linkage 2 refers to possible inhalation of vapours from potential hydrocarbons onsite affecting the future site residents. Given the risk from hydrocarbons, this pollutant linkage is considered possible at this stage, in the areas to the north and west (buildings and farm yard areas) and to the north east (in the area of the former tanks). The farmhouse and gardens to the east and south of the site are unlikely to be affected.

5.5.3 Pollutant Linkage 3

Potential pollutant linkage 3 refers to possible hazardous gas from two infilled ponds offsite. This is considered unlikely due to the small size of these features, age (potentially infilled by the 1957 and 1983 mapping) and distance from the site. There is unlikely to be a significant amount of gas produced from the small features and any significant production is likely to have ceased given the infilled areas are over 30 years old. Hazardous gas may be generated onsite from the former culvert and well, or if large volumes of putrescible and degradable made ground are encountered.

There may be ground gas generation from the underlying Pennine Coal Measures.

At this stage pollutant linkage 3 with respect to hazardous and ground gas is considered to be possible.

5.5.4 Pollutant Linkage 4

Potential pollutant linkage 4 refers to the possible contaminants affecting surface waters and the underlying Secondary A Aquifer. This linkage is considered possible at this stage given the likely presence of made ground and possible localised hydrocarbon spillages on the study site migrating through the Sands and Gravel. In addition, the former well may provide a preferential pathway to the underlying aquifer.

5.5.5 Pollutant Linkage 5

Potential pollutant linkage 5 refers to the possible deleterious effects that sulphate may have on building materials such as concrete, water pipes and building structures. Potential made ground comprising ash and clinker may generate sulphate. Therefore, this pollutant linkage is considered possible at this stage.

5.5.6 Pollutant Linkage 6

Potential pollutant linkage 6 refers to the possible contaminants permeating potable water pipes and consumption by the future residents of the tainted water supply. Given the likely presence of made ground on site and likely contaminants, this linkage is also considered possible at this stage.

5.5.7 *Pollutant Linkage 7*

Potential pollutant linkage 7 refers to the possible phytotoxic contaminants affecting plant growth. Given the likely presence of made ground onsite and likely heavy metal contaminant, this linkage is also considered possible at this stage.

6 SUMMARY CONCLUSIONS AND RECOMMENDATIONS

6.1 Summary Conclusions

Based on the historical mapping the site has been the farm yard associated with Hollins Farm since 1848 mapping. A number of the original buildings associated with the farm yard are still on site, mainly to the north and north west of the site. Due to the age of the buildings, ACMs may be present.

Possible contamination was identified given the sites historic use as a Farm Yard, including hydrocarbons from former tanks; vehicle storage/ maintenance; heavy metals and sulphates from fuels and ash and clinker made ground; and possible algicides, fungicides and pesticides. It is likely that any contamination will be restricted to the farm yard and farm buildings towards the north and north west of the site. The area of the current farm house and associated gardens to the east and south of the site are unlikely to be significantly contaminated.

There are two small potentially infilled ponds within 250m of the site boundary which are not considered to be a hazardous gas risk to the site given their size, age of infilling and distance from the site. However, the former well and culvert may be a source of hazardous gas. The Envirocheck Report has not identified any known/ licenced landfill sites within 250m of the site. The underlying coal measures may be a source of ground gas. Therefore, hazardous gas and ground gas are both considered risks to the site. No radon protection measures are required.

The Coal Authority Report has not identified a risk from shallow coal mining, or any shafts within 20m of the site.

A risk to human health, structures (building and water pipes), the underlying Secondary A Aquifer, and flora within landscaping from potential soil contamination was identified and further investigation is recommended in the areas of the farm buildings, farm yard and the former tanks. The rest of the site is unlikely to be significantly contaminated.

The preliminary contamination conceptual model for Hollins Farm, Bury, as illustrated in Table 5-1 has identified seven generic potential pollutant linkages, seven of which are considered possible at this stage.

6.2 Recommendations

It is recommended that to support the planning application for this development, a Phase II intrusive survey should be carried out across the former 'working area' of the farm (yards, buildings and suspected tanks) to investigate the seven identified potential pollutant linkages further.

In order to address potential pollutant linkages, solid samples should be collected from trial pits and/or boreholes undertaken across the site subjected to appropriate chemical analyses based upon a broad range of contaminants, including those identified in Section 5.2. The investigation will follow guidance set out in BS10175⁹ and BS5930¹⁰. Some sampling locations will target historical features such as former and existing farm

⁹ British Standard (2011). "Investigation of Potentially Contaminated Sites – Code of Practice." BS10175:2011

¹⁰ British Standard (1999). "Code of Practice for Site Investigations." BS5930:1999

buildings, suspected tanks, the former well and culvert. Full details of the proposed site investigation should be forwarded to the Local Authority for approval.

Depending on the ground conditions encountered on site, it may be necessary to either carry out gas monitoring or to install precautionary gas protection measures.

If precautionary gas protection measures are to be installed and validated, they should be in line with the current standard document of gas control practice (C665¹¹ and BS8485:2007¹²). These should include as a minimum;

- Ventilation of confined spaces within the building.
- Well-constructed ground slab.
- Granular filled void, vented to the atmosphere or sub floor void.
- Low permeable membrane fitted by a professional contractor and validated by a third party.
- Minimum penetration of ground slab by services, with sufficient lapped and taped joints.

LKC would note that if significant putrescible or hydrocarbon impacted made ground is identified onsite it may be likely the membrane specification may need to be upgraded to a proprietary membrane or gas monitoring required.

The foundation design has not been provided to LKC at this time. We would advise that the foundation design follow BRE 414¹³ and drawings are provided to the Local Authority for approval. In addition, specifications of the proprietary gas membrane should be sent to the Local Authority for their approval.

It should be noted that local council and/ or NHBC may insist on ground gas monitoring. This normally requires the drilling of boreholes and installation of gas monitoring wells. As a minimum, gas monitoring would likely be over a three month period with at least six gas monitoring visits under various barometric conditions. The monitoring timescales will need to be agreed with the Local Authority prior to commencement.

It should be noted that boreholes or trial pits may also be utilised to provide appropriate geotechnical information on sub-surface conditions.

Pollutant linkage 4 may be investigated by the sampling and chemical analysis of any groundwater on site or by testing for any leachable contamination in the soils on site. This will be dependent upon prevailing site conditions.

This investigation, in conjunction with appropriate geotechnical testing, will delineate any existing areas of potential contamination and identify and characterise any contaminants encountered. Information from this investigation can then be used to provide a more detailed assessment of the identified pollutant linkages, provide appropriate foundation solutions and, if necessary, identify appropriate remedial measures to ensure that the site is made suitable for its proposed end use.

A more detailed scope should be presented to the Local Authority as a Site Investigation Brief.

¹¹ CIRIA (2007). "Assessing Risks Posed by Hazardous Ground Gases to Buildings." CIRIA C665

¹² BSI (2007). "Code of Practice for the Characterisation and Remediation from Ground Gas in Affected Developments." BS8485:2007.

¹³ BRE (2001). "Protective Measures for Housing on Gas-Contaminated Land." BRE 414.

LKC would recommend that a copy of this report is forwarded to the Local Authority for their approval of the above recommendations before the commencement of any works on the site. LKC would advise that a more detailed site investigation proposal be provided to the local authority for their approval.

6.3 Further Considerations

Even though no asbestos was identified externally on the existing buildings there may be areas inside that have Asbestos Containing Materials (ACMS) given the age of the properties. Therefore we would advise that a Pre-Demolition and Major Refurbishment 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.

FIGURES

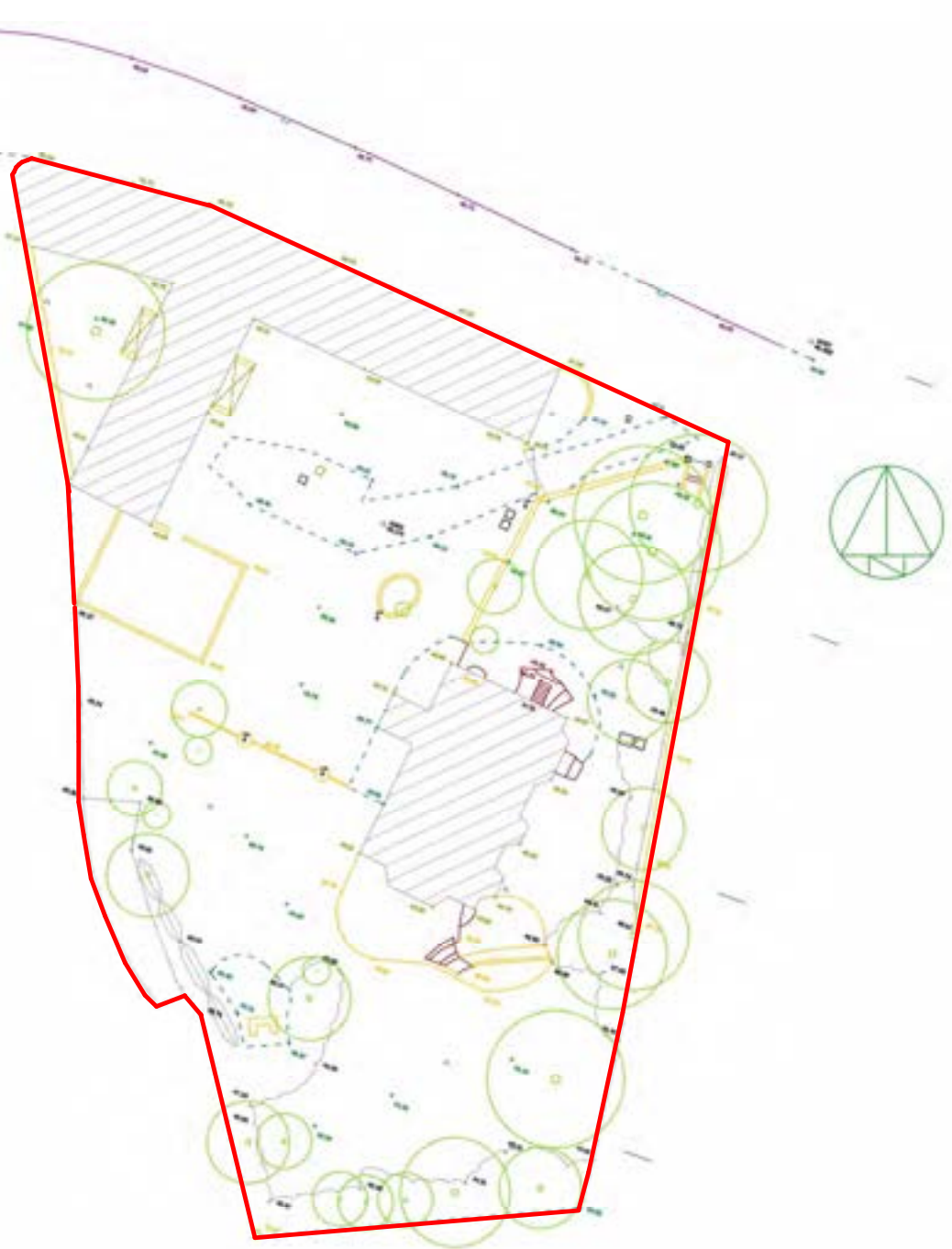


Figure 1: Location Plan, Land at Hollins Farm, Bury

Drawn: March 2013 Scale: 1:25,000 @ A4 (see scale bar)



0 25.00
metres
Scale: 1:500.0



Contains Ordnance Survey data © Crown copyright and database right 2010

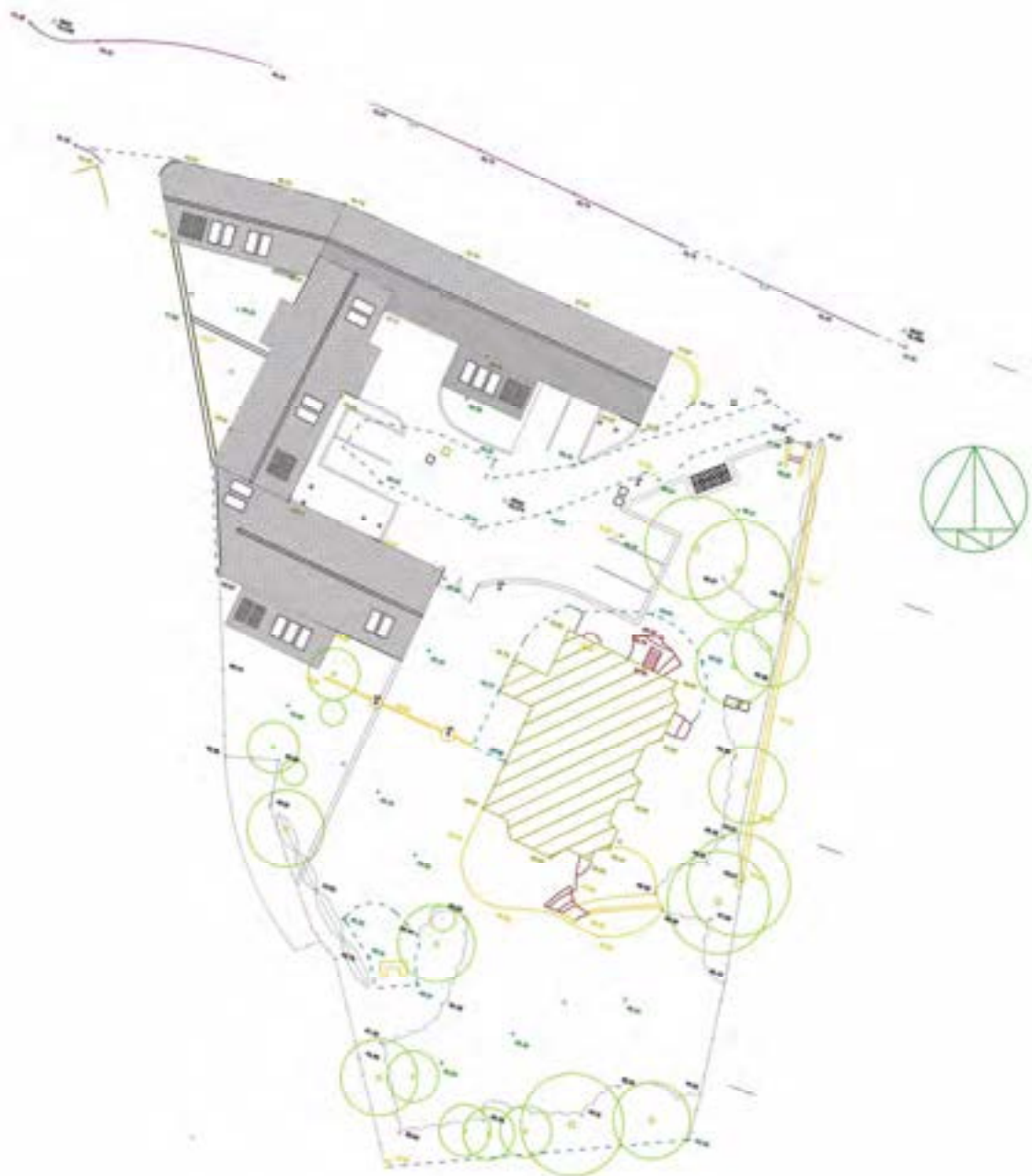
Figure 2: Site Boundary and Existing Site Plan, Land at Hollins Farm, Bury

Drawn: March 2013 Scale: 1:500 @ A4 (see scale bar)





0 25.00
metres
Scale: 1:500.0



Contains Ordnance Survey data © Crown copyright and database right 2010

Figure 3: Proposed Site Plan, Land at Hollins Farm, Bury

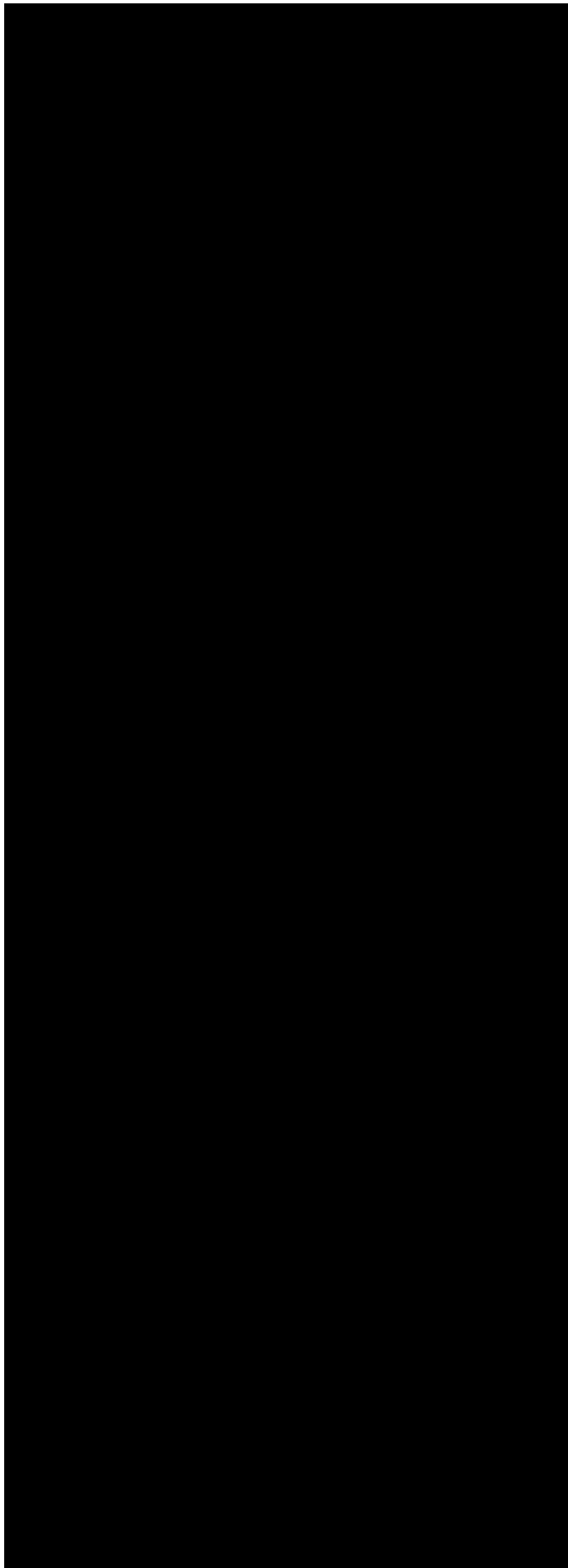
Drawn: March 2013 Scale: 1:500 @ A4 (see scale bar)

APPENDIX A

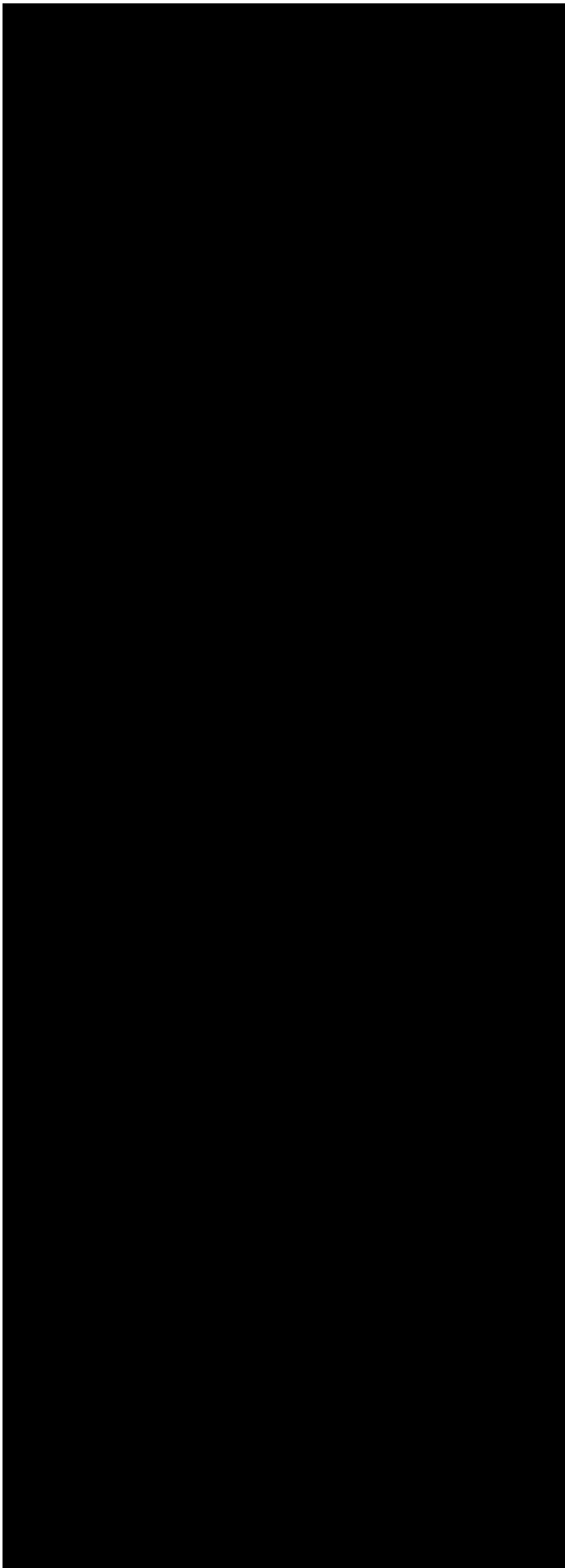
HISTORICAL MAPS

Historical Mapping Legends

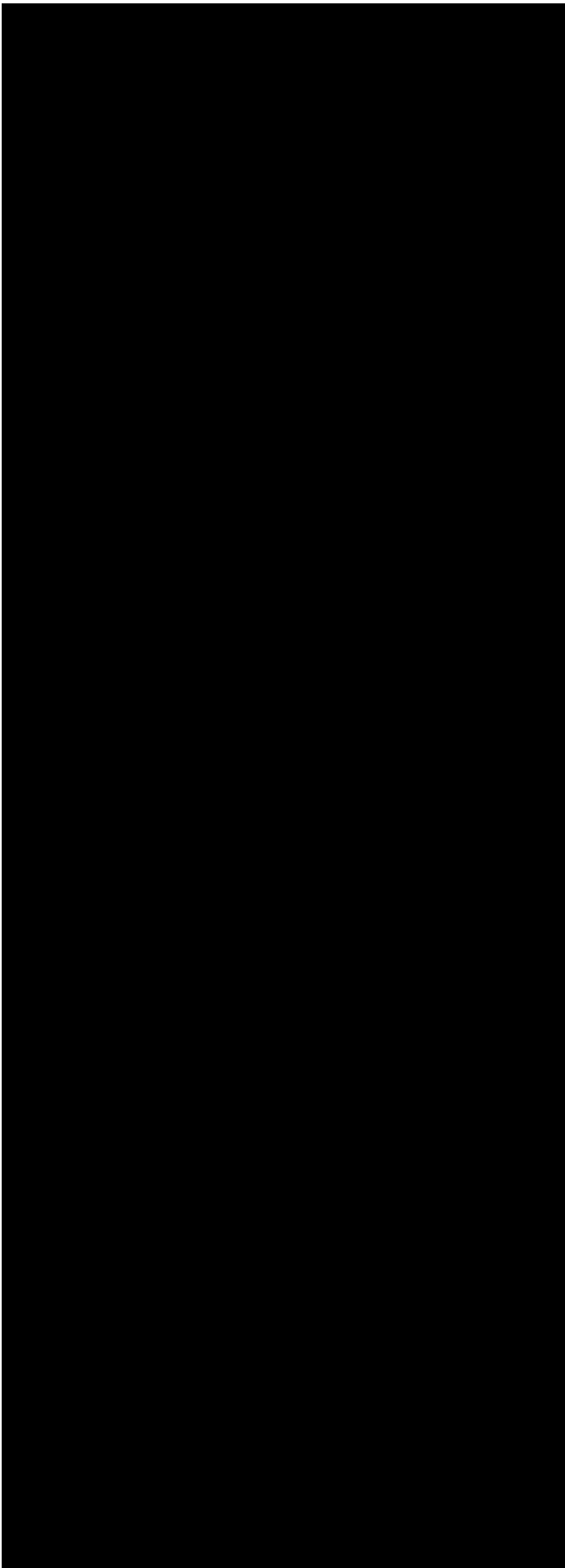
Ordnance Survey County Series 1:10,560



Ordnance Survey Plan 1:10,000



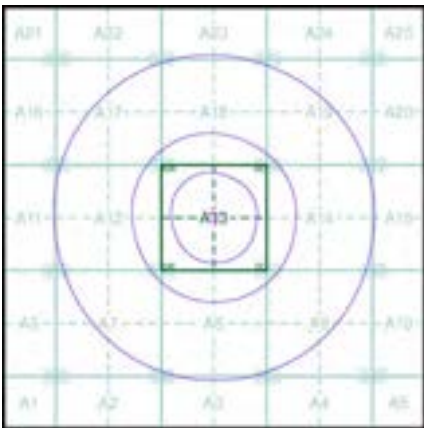
1:10,000 Raster Mapping



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1848 - 1851	3
Lancashire And Furness	1:10,560	1894	4
Lancashire And Furness	1:10,560	1910	5
Lancashire And Furness	1:10,560	1923 - 1931	6
Lancashire And Furness	1:10,560	1932	7
Lancashire And Furness	1:10,560	1938	8
Ordnance Survey Plan	1:10,000	1955	9
Ordnance Survey Plan	1:10,000	1965	10
Ordnance Survey Plan	1:10,000	1974	11
Manchester	1:25,000	1975	12
Ordnance Survey Plan	1:10,000	1983	13
10K Raster Mapping	1:10,000	2006	14
10K Raster Mapping	1:10,000	2012	15

Historical Map - Slice A



Order Details

Order Number: 44728217_1_1
Customer Ref: LKC 12 1111
National Grid Reference: 381410, 408020
Slice: A
Site Area (Ha): 0.26
Search Buffer (m): 1000

Site Details

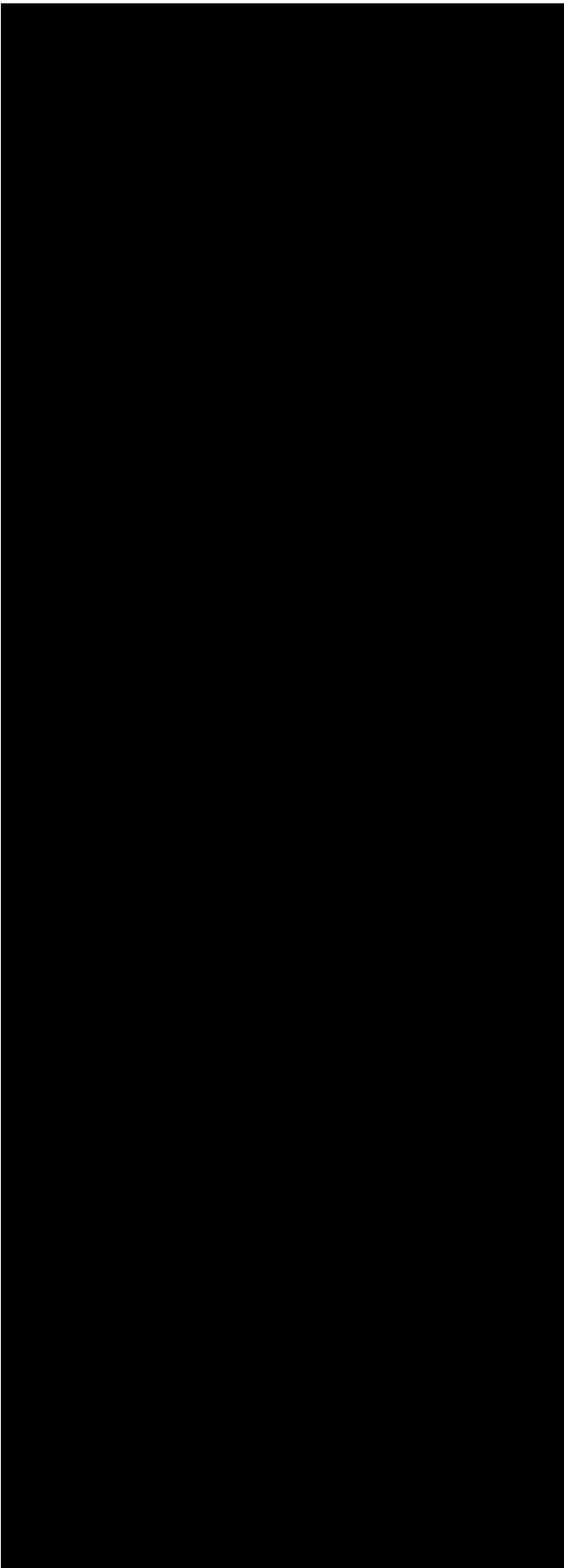
Hollins Farm, 247 Hollins Lane, Bury, Lancashire, BL9 8AS



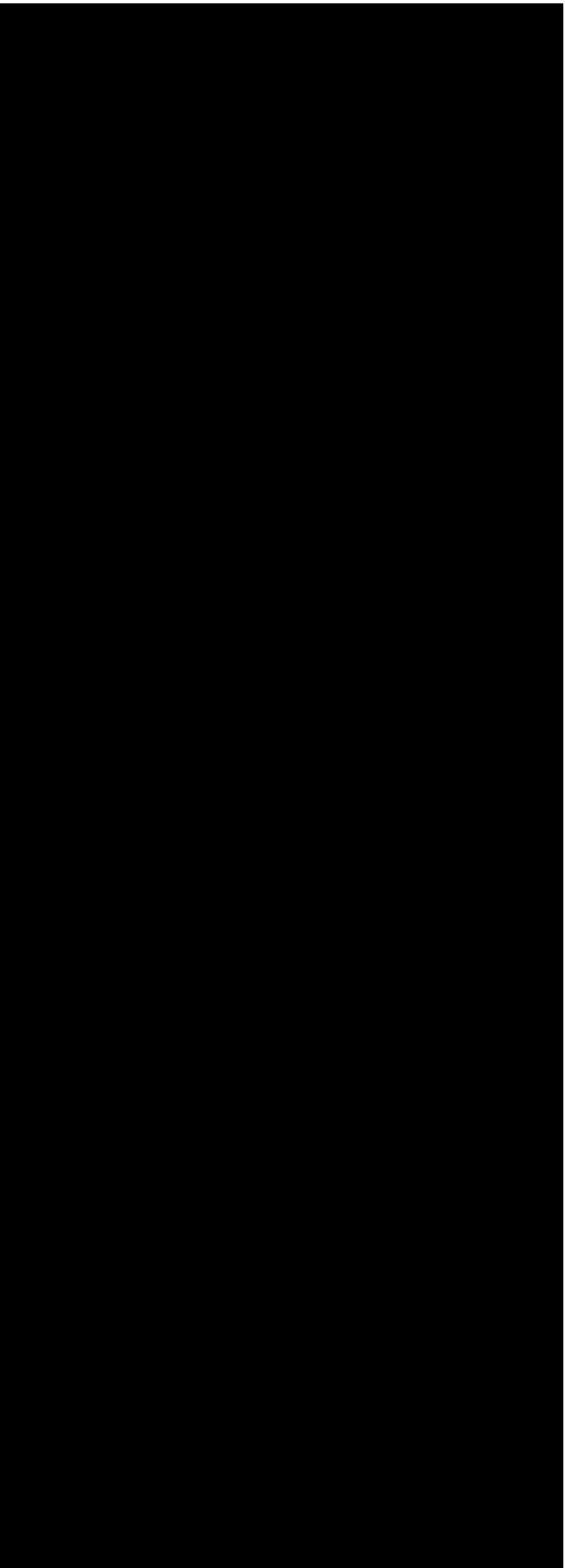
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

Russian Military Mapping Legends

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



1:25,000 mapping



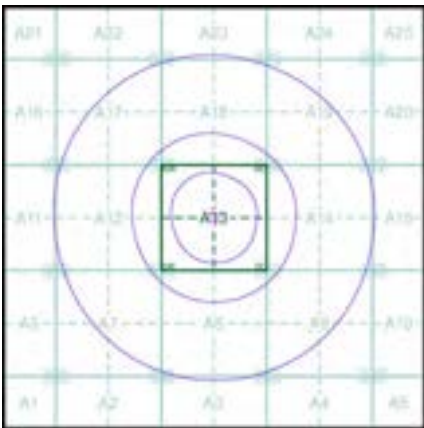
Key to Numbers on Mapping



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1848 - 1851	3
Lancashire And Furness	1:10,560	1894	4
Lancashire And Furness	1:10,560	1910	5
Lancashire And Furness	1:10,560	1923 - 1931	6
Lancashire And Furness	1:10,560	1932	7
Lancashire And Furness	1:10,560	1938	8
Ordnance Survey Plan	1:10,000	1955	9
Ordnance Survey Plan	1:10,000	1965	10
Ordnance Survey Plan	1:10,000	1974	11
Manchester	1:25,000	1975	12
Ordnance Survey Plan	1:10,000	1983	13
10K Raster Mapping	1:10,000	2006	14
10K Raster Mapping	1:10,000	2012	15

Russian Map - Slice A



Order Details

Order Number: 44728217_1_1
Customer Ref: LKC 12 1111
National Grid Reference: 381410, 408020
Slice: A
Site Area (Ha): 0.26
Search Buffer (m): 1000

Site Details

Hollins Farm, 247 Hollins Lane, Bury, Lancashire, BL9 8AS



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



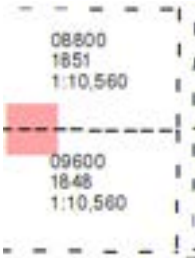
Lancashire And Furness

Published 1848 - 1851

Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

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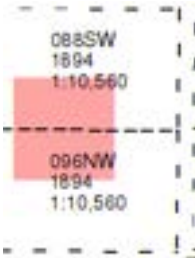
Lancashire And Furness

Published 1894

Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



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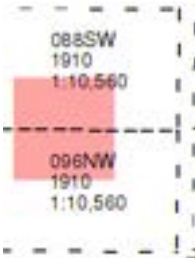
Lancashire And Furness

Published 1910

Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 44728217_1_1
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National Grid Reference: 381410, 408020
Slice: A
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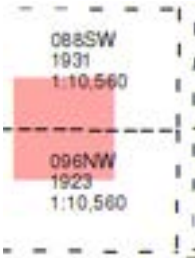
Lancashire And Furness

Published 1923 - 1931

Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 44728217_1_1
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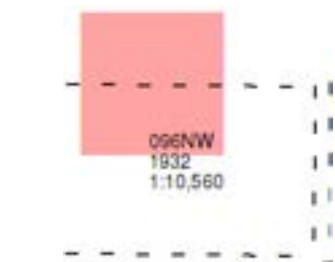
Lancashire And Furness

Published 1932

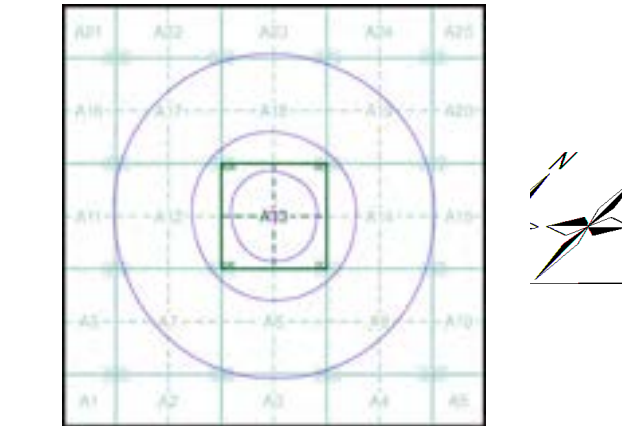
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

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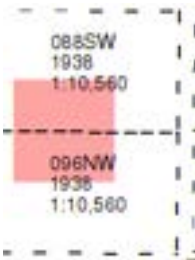
Lancashire And Furness

Published 1938

Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 44728217_1_1
Customer Ref: LKC 12 1111
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Slice: A
Site Area (Ha): 0.26
Search Buffer (m): 1000

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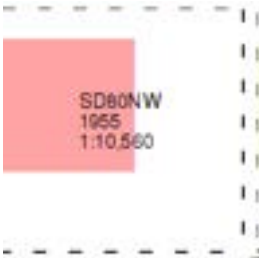
Ordnance Survey Plan

Published 1955

Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

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Customer Ref: LKC 12 1111
National Grid Reference: 381410, 408020
Slice: A
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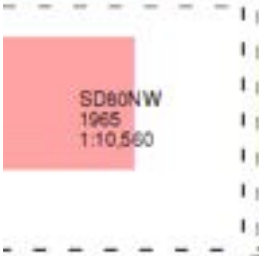
Ordnance Survey Plan

Published 1965

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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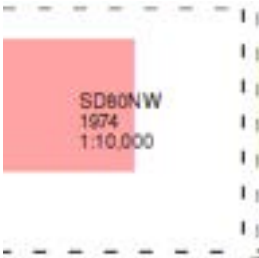
Ordnance Survey Plan

Published 1974

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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Site Details

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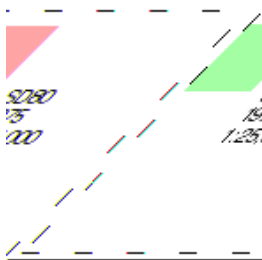
Manchester

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: 44728217_1_1
Customer Ref: LKC 12 1111
National Grid Reference: 381410, 408020
Slice: A
Site Area (Ha): 0.26
Search Buffer (m): 1000

Site Details

Hollins Farm, 247 Hollins Lane, Bury, Lancashire, BL9 8AS



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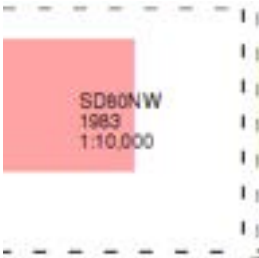
Ordnance Survey Plan

Published 1983

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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10k Raster Mapping

Published 2006

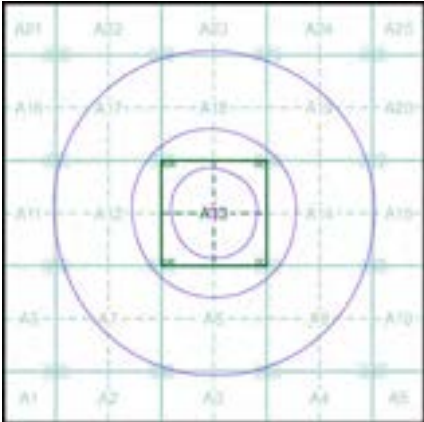
Source map scale - 1:10,000

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.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

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Customer Ref: LKC 12 1111
National Grid Reference: 381410, 408020
Slice: A
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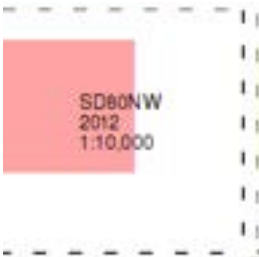
10k Raster Mapping

Published 2012

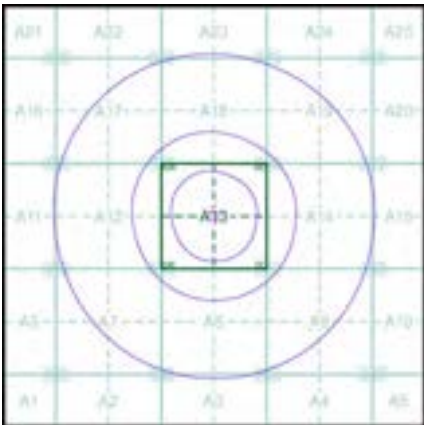
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

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Slice: A
Site Area (Ha): 0.26
Search Buffer (m): 1000

Site Details

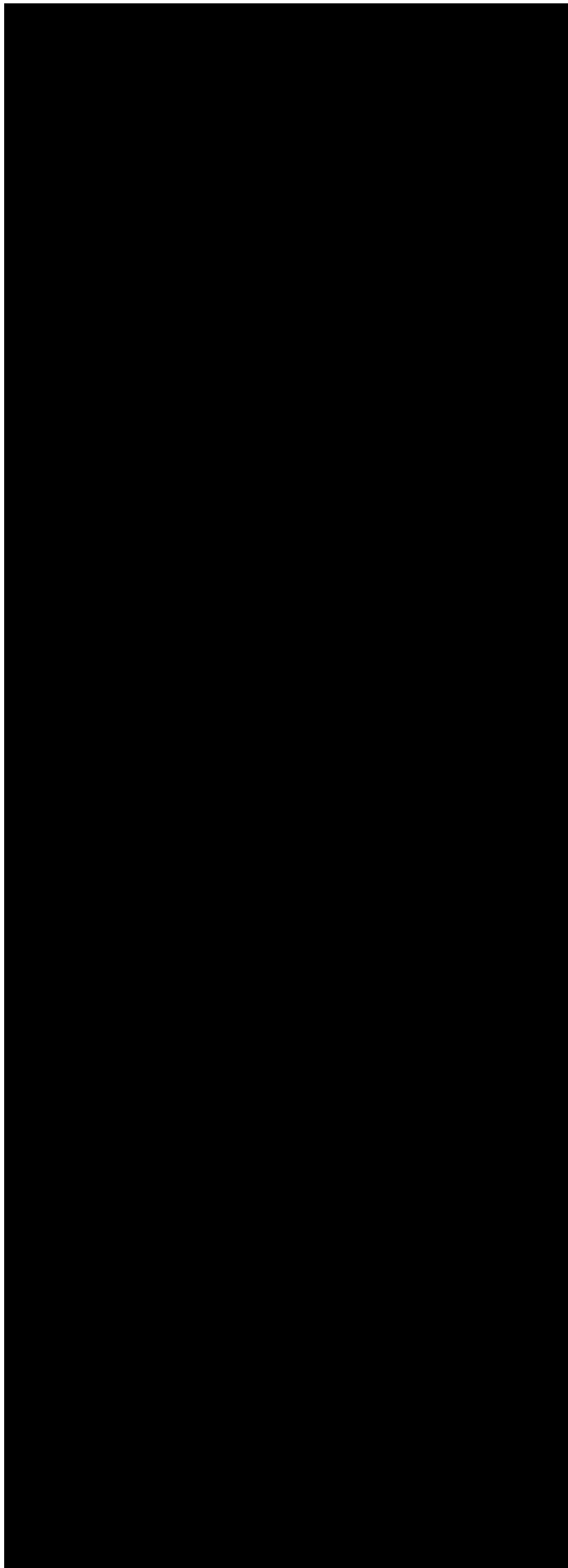
Hollins Farm, 247 Hollins Lane, Bury, Lancashire, BL9 8AS



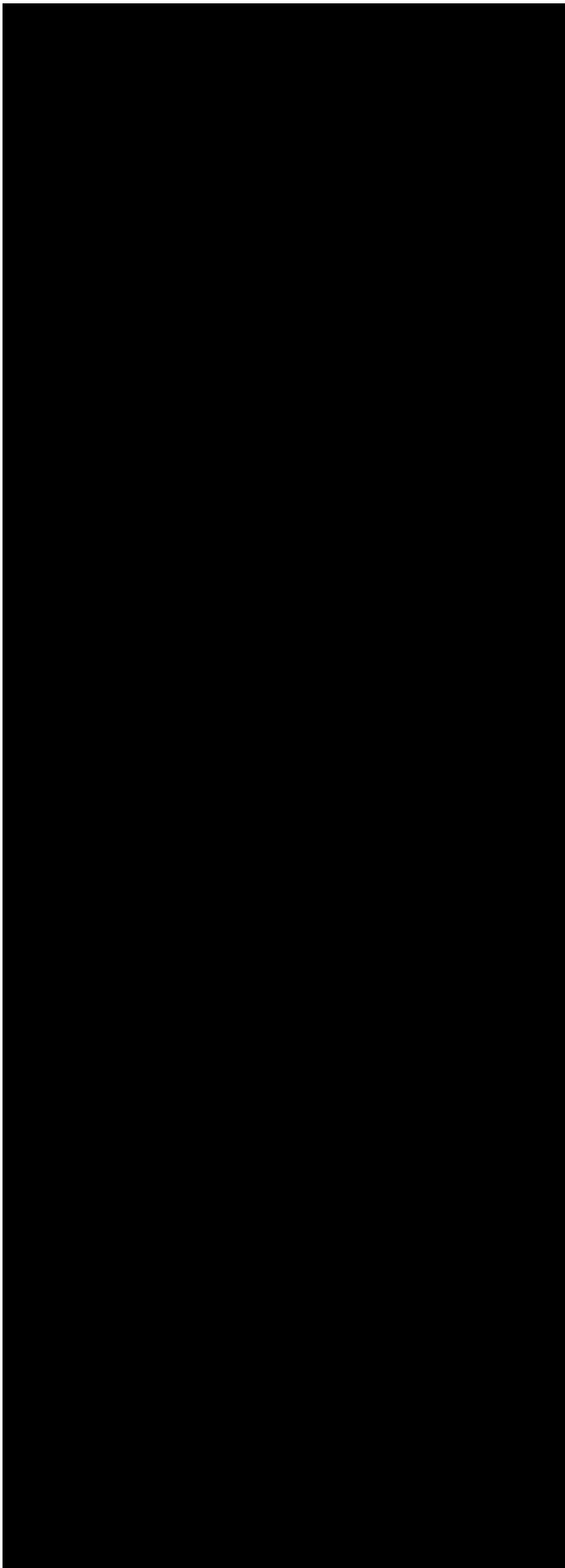
Tel: 0844 844 9952
Fax: 0844 844 9951
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Historical Mapping Legends

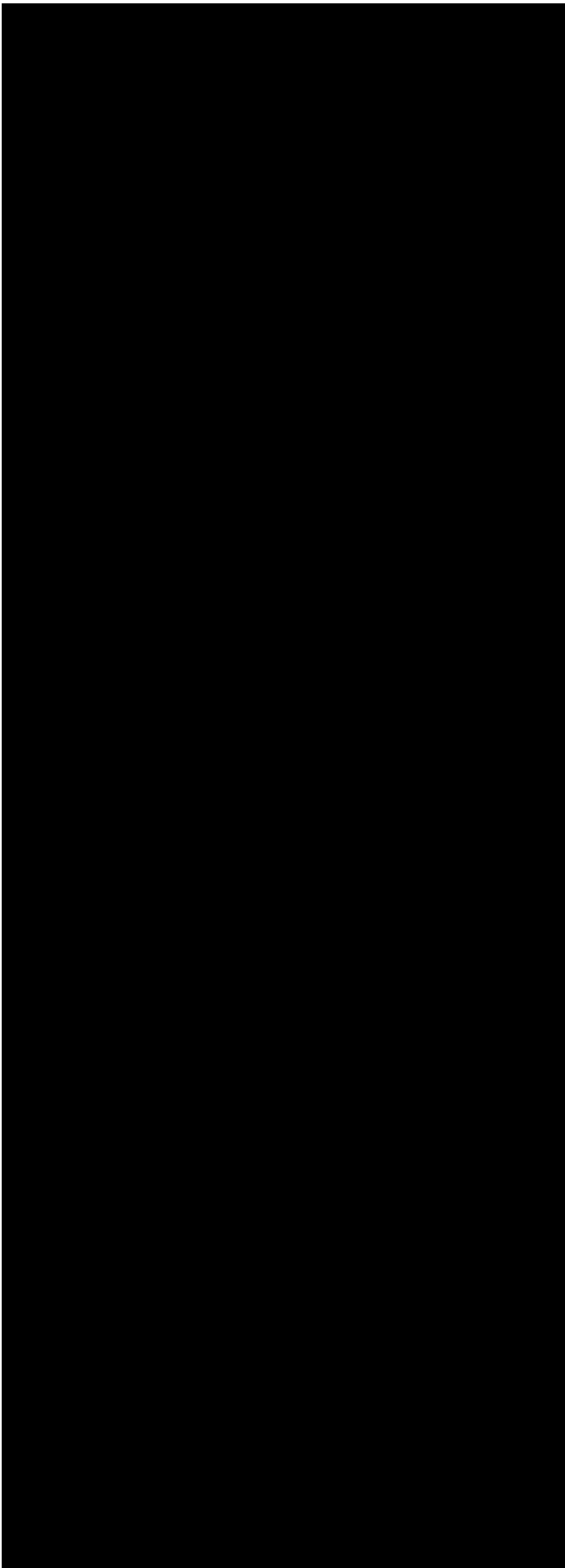
Ordnance Survey County Series and
Ordnance Survey Plan 1:2,500



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



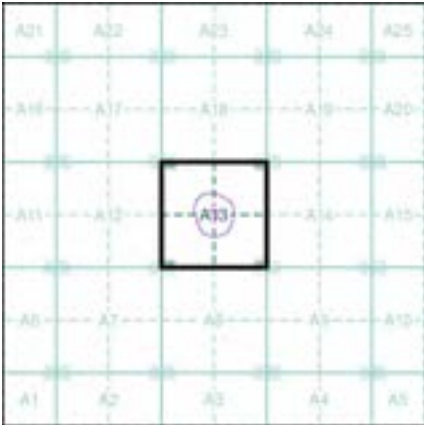
Large-Scale National Grid Data 1:2,500 and
1:1,250



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:2,500	1893	2
Lancashire And Furness	1:2,500	1909 - 1910	3
Lancashire And Furness	1:2,500	1922 - 1930	4
Lancashire And Furness	1:2,500	1937	5
Ordnance Survey Plan	1:2,500	1957	6
Ordnance Survey Plan	1:1,250	1957	7
Ordnance Survey Plan	1:1,250	1963 - 1970	8
Ordnance Survey Plan	1:2,500	1970 - 1971	9
Additional SIMs	1:1,250	1985	10
Large-Scale National Grid Data	1:1,250	1992	11
Large-Scale National Grid Data	1:1,250	1994 - 1996	12
Large-Scale National Grid Data	1:1,250	1995 - 1996	13
Large-Scale National Grid Data	1:1,250	1996	14

Historical Map - Segment A13



Order Details

Order Number: 44728217_1_1
Customer Ref: LKC 12 1111
National Grid Reference: 381410, 408020
Slice: A
Site Area (Ha): 0.26
Search Buffer (m): 100

Site Details

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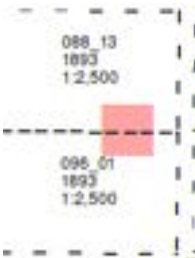
Lancashire And Furness

Published 1893

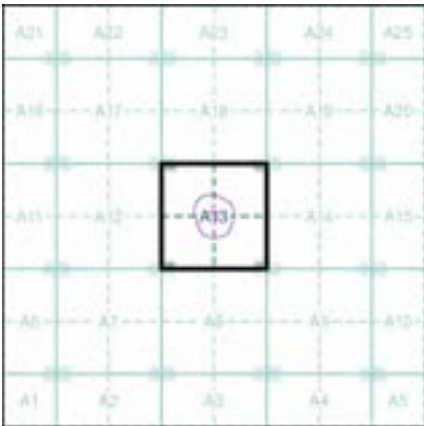
Source map scale - 1:2,500

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: 44728217_1_1
Customer Ref: LKC 12 1111
National Grid Reference: 381410, 408020
Slice: A
Site Area (Ha): 0.26
Search Buffer (m): 100

Site Details

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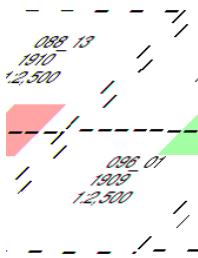
Lancashire And Furness

Published 1909 - 1910

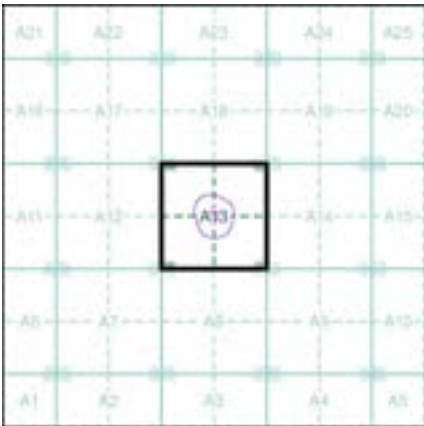
Source map scale - 1:2,500

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

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National Grid Reference: 381410, 408020
Slice: A
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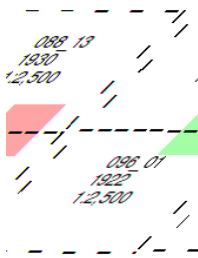
Lancashire And Furness

Published 1922 - 1930

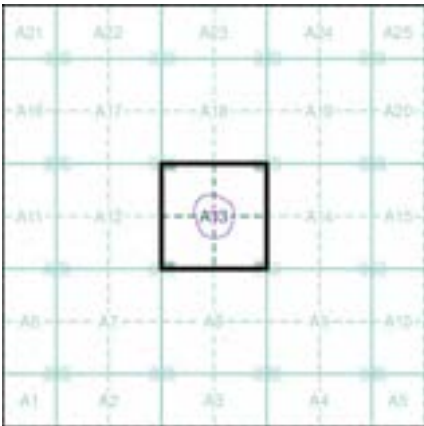
Source map scale - 1:2,500

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: 44728217_1_1
Customer Ref: LKC 12 1111
National Grid Reference: 381410, 408020
Slice: A
Site Area (Ha): 0.26
Search Buffer (m): 100

Site Details

Hollins Farm, 247 Hollins Lane, Bury, Lancashire, BL9 8AS



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Web: www.envirocheck.co.uk



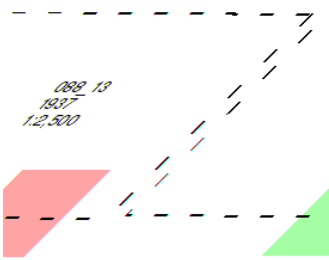
Lancashire And Furness

Published 1937

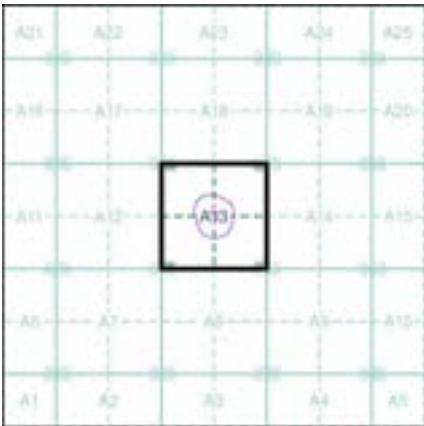
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered 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.

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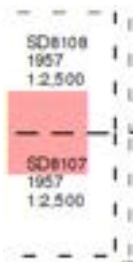
Ordnance Survey Plan

Published 1957

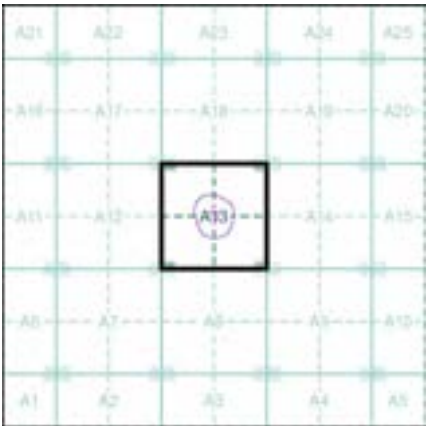
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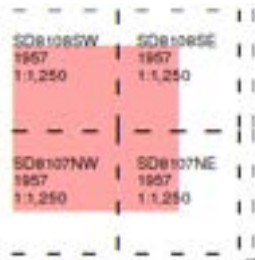
Ordnance Survey Plan

Published 1957

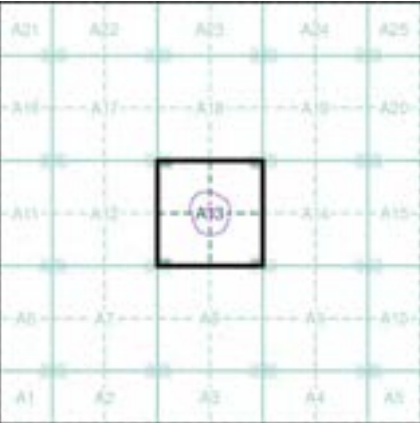
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

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Historical Map - Segment A13



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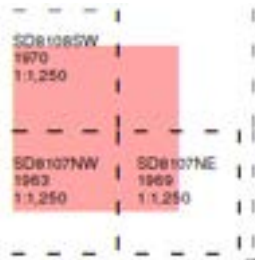
Ordnance Survey Plan

Published 1963 - 1970

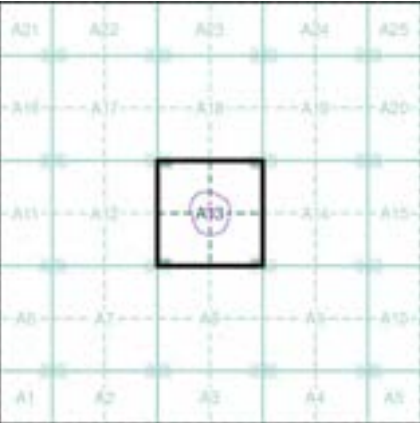
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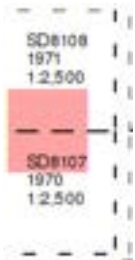
Ordnance Survey Plan

Published 1970 - 1971

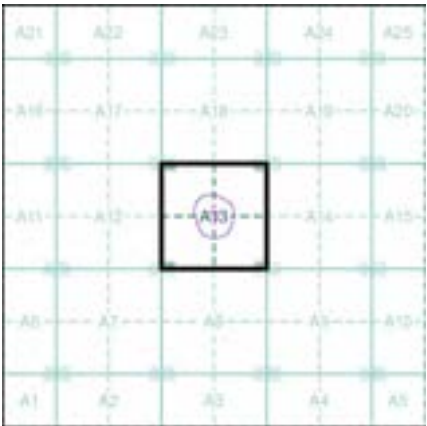
Source map scale - 1:2,500

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)



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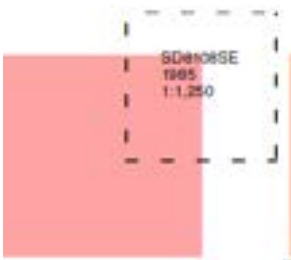
Additional SIMs

Published 1985

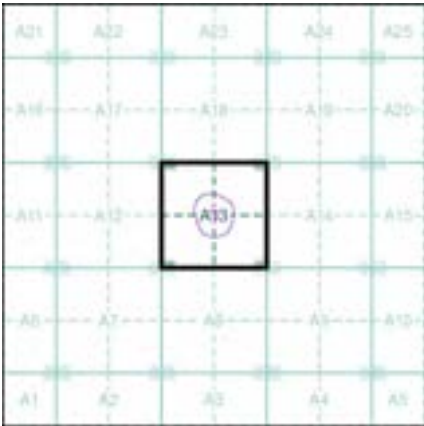
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



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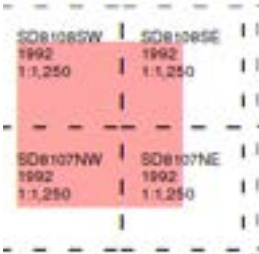
Large-Scale National Grid Data

Published 1992

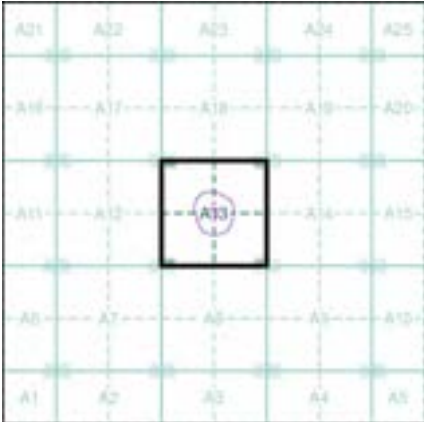
Source map scale - 1:1,250

'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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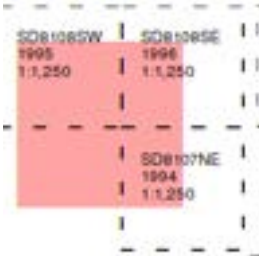
Large-Scale National Grid Data

Published 1994 - 1996

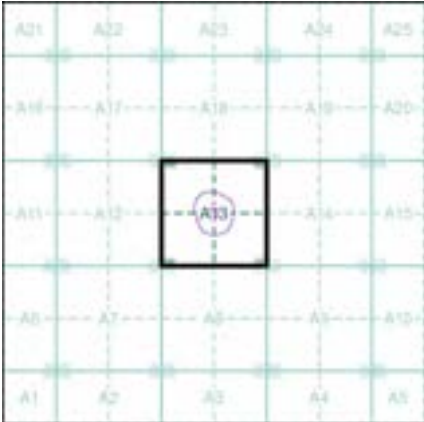
Source map scale - 1:1,250

'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.

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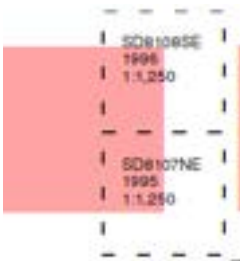
Large-Scale National Grid Data

Published 1995 - 1996

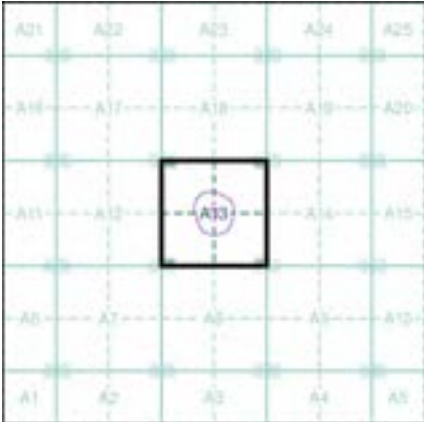
Source map scale - 1:1,250

'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)



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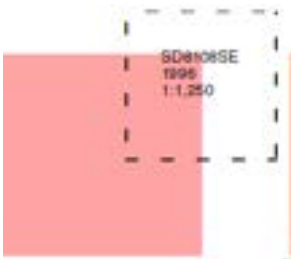
Large-Scale National Grid Data

Published 1996

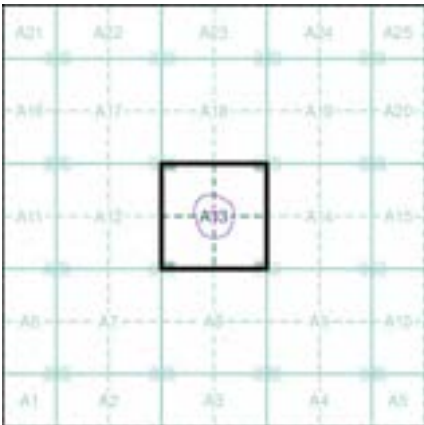
Source map scale - 1:1,250

'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.

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APPENDIX B

ENVIROCHECK REPORT

Geology 1:50,000 Maps Legends

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Flandrian - Flandrian
	GFDUD	Glaciofluvial Deposits, Devensian	Sand and Gravel	Devensian - Devensian
	TILLD	Till, Devensian	Diamicton	Devensian - Devensian
	RTD1	River Terrace Deposits, 1	Sand and Gravel	Quaternary - Quaternary
	RTD2	River Terrace Deposits, 2	Sand and Gravel	Quaternary - Quaternary
	PEAT	Peat	Peat	Quaternary - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	SSG	Sherwood Sandstone Group	Sandstone	Ladinian - Late Permian
	MM	Manchester Marls Formation	Mudstone	Late Permian - Late Permian
	CS	Collyhurst Sandstone Formation	Sandstone	Early Permian - Early Permian
	NR	Nob End Rock	Sandstone	Bolsovian (Westphalian C) - Bolsovian (Westphalian C)
	PMCM	Pennine Middle Coal Measures Formation	Mudstone, Siltstone and Sandstone	Bolsovian (Westphalian C) - Duckmantian (Westphalian B)
	PR	Peel Hall Rock	Sandstone	Duckmantian (Westphalian B) - Duckmantian (Westphalian B)
	PLCM	Pennine Lower Coal Measures Formation	Mudstone, Siltstone and Sandstone	Langsettian (Westphalian A) - Langsettian (Westphalian A)
	TRBR	Trencherbone Rock	Sandstone	Langsettian (Westphalian A) - Langsettian (Westphalian A)
	CAR	Cannel Rock (South Lancashire)	Sandstone	Langsettian (Westphalian A) - Langsettian (Westphalian A)
	PLCM	Pennine Lower Coal Measures Formation	Sandstone	Langsettian (Westphalian A) - Langsettian (Westphalian A)

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
				Langsettian (Westphalian A)
	OL	Old Lawrence Rock	Sandstone	Langsettian (Westphalian A) - Langsettian (Westphalian A)
	WH	Woodhead Hill Rock	Sandstone	Langsettian (Westphalian A) - Langsettian (Westphalian A)
	RR	Rough Rock	Sandstone	Yeadonian - Yeadonian
	MG	Millstone Grit Group [See also Migr]	Mudstone, Siltstone and Sandstone	Namurian - Namurian
		Faults		
		Rock Segments		



Geology 1:50,000 Maps

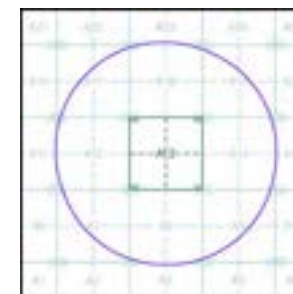
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published 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:	085
Map Name:	Manchester
Map Date:	1975
Bedrock Geology:	Available
Superficial Geology:	Available
Artificial Geology:	Not Available
Faults:	Available
Landslip:	Not Available
Rock Segments:	Available

Geology 1:50,000 Maps - Slice A



Order Details:

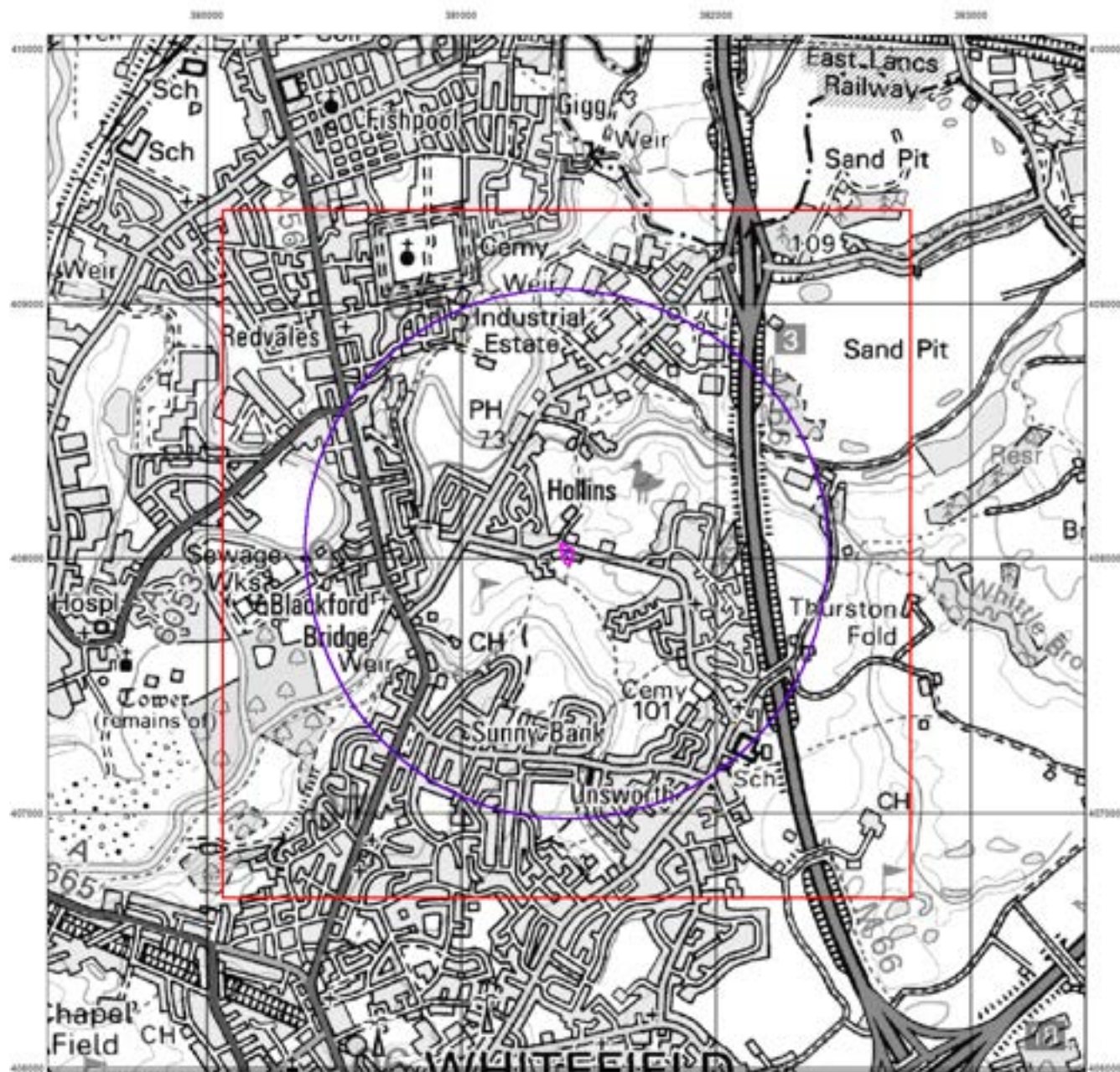
Order Number:	44728217_1_1
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Search Buffer (m):	1000

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Artificial Ground and Landslip

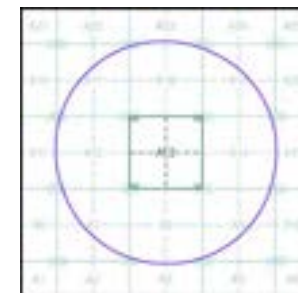
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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

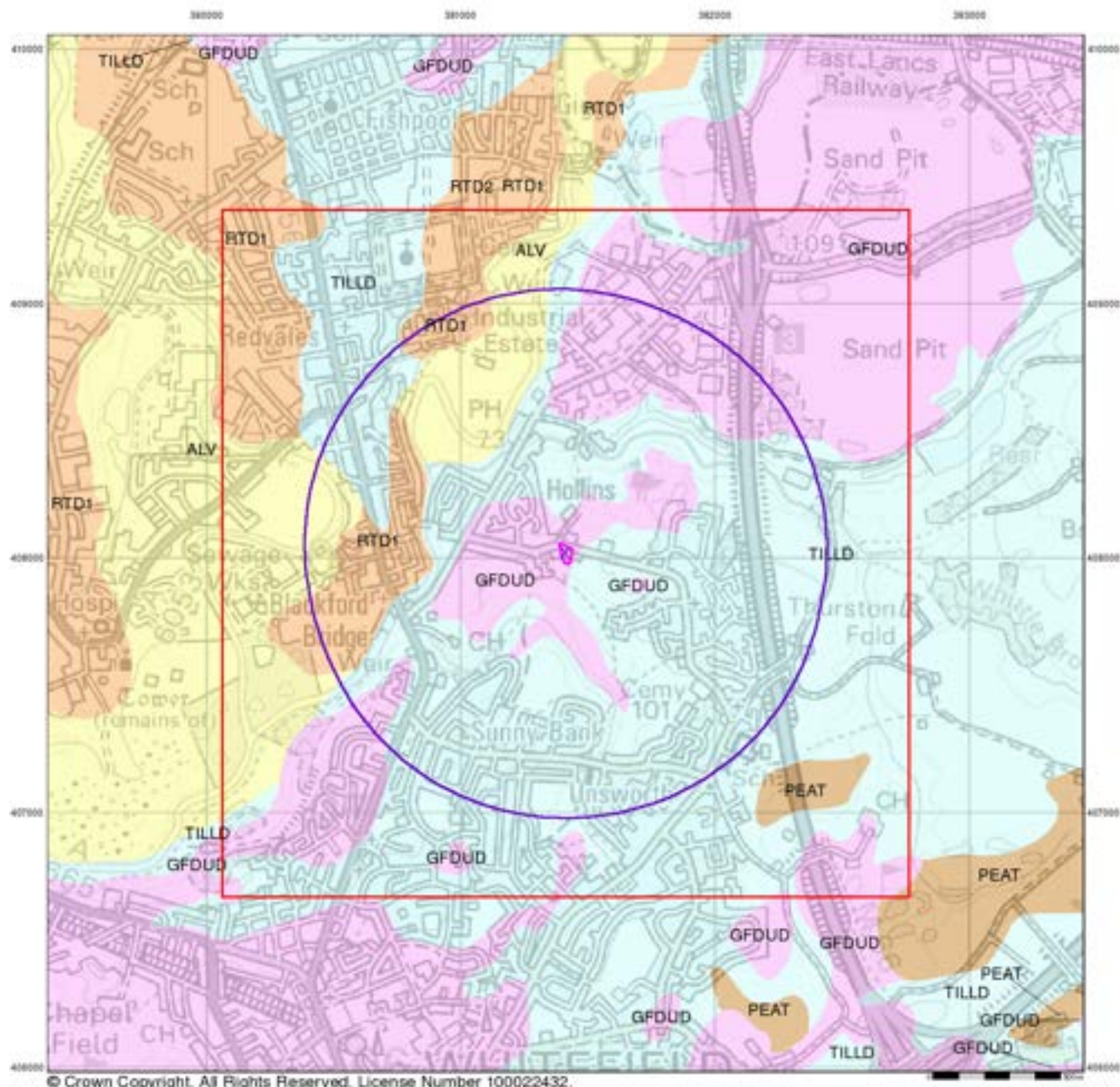
Order Number:	44728217_1_1
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National Grid Reference:	381410, 408020
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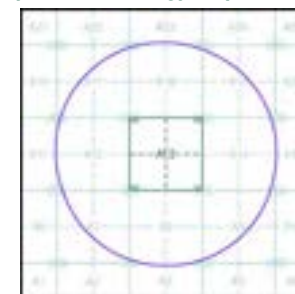
Superficial Geology

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:

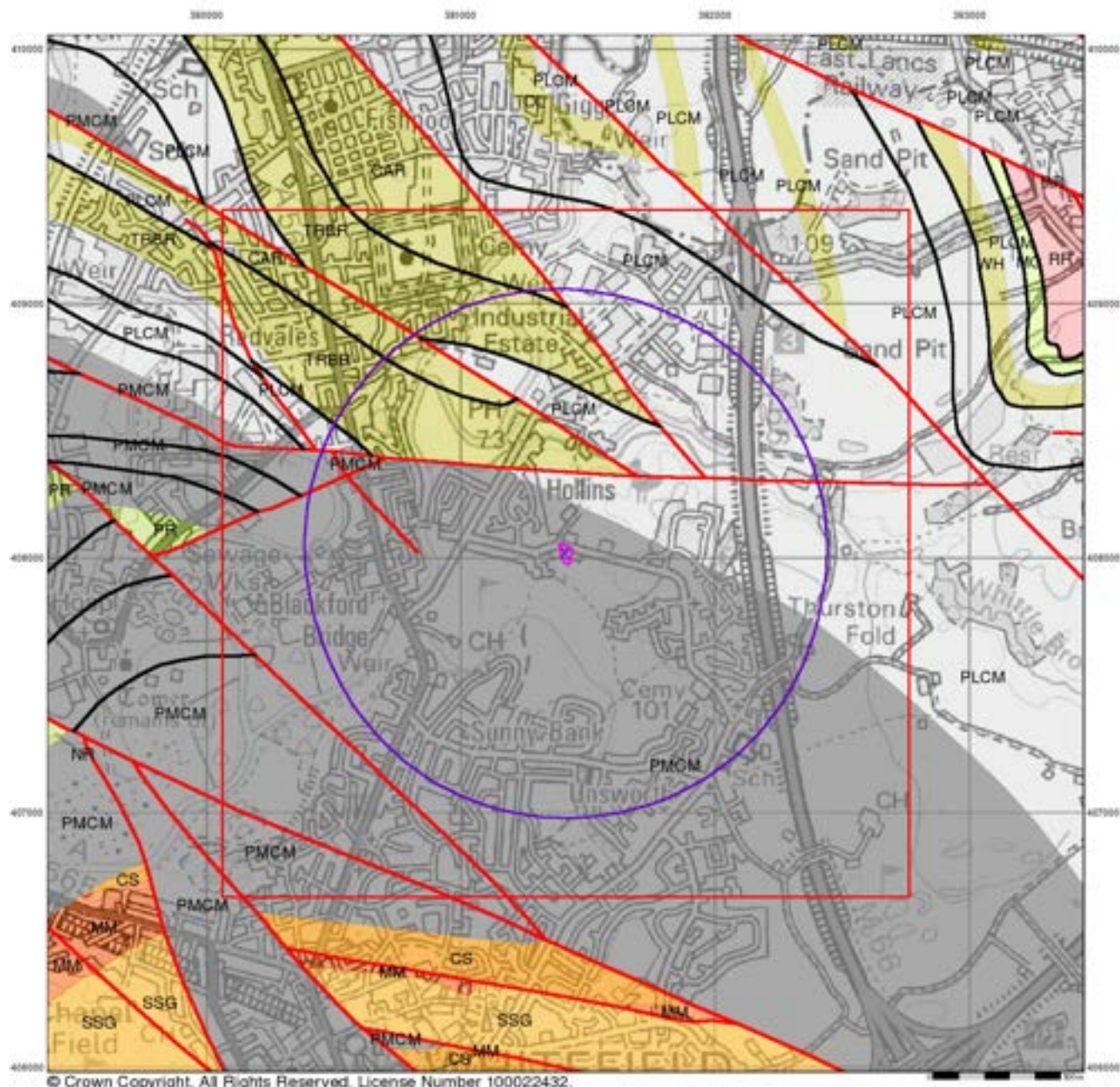
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Bedrock and Faults

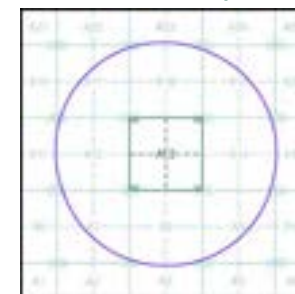
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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:

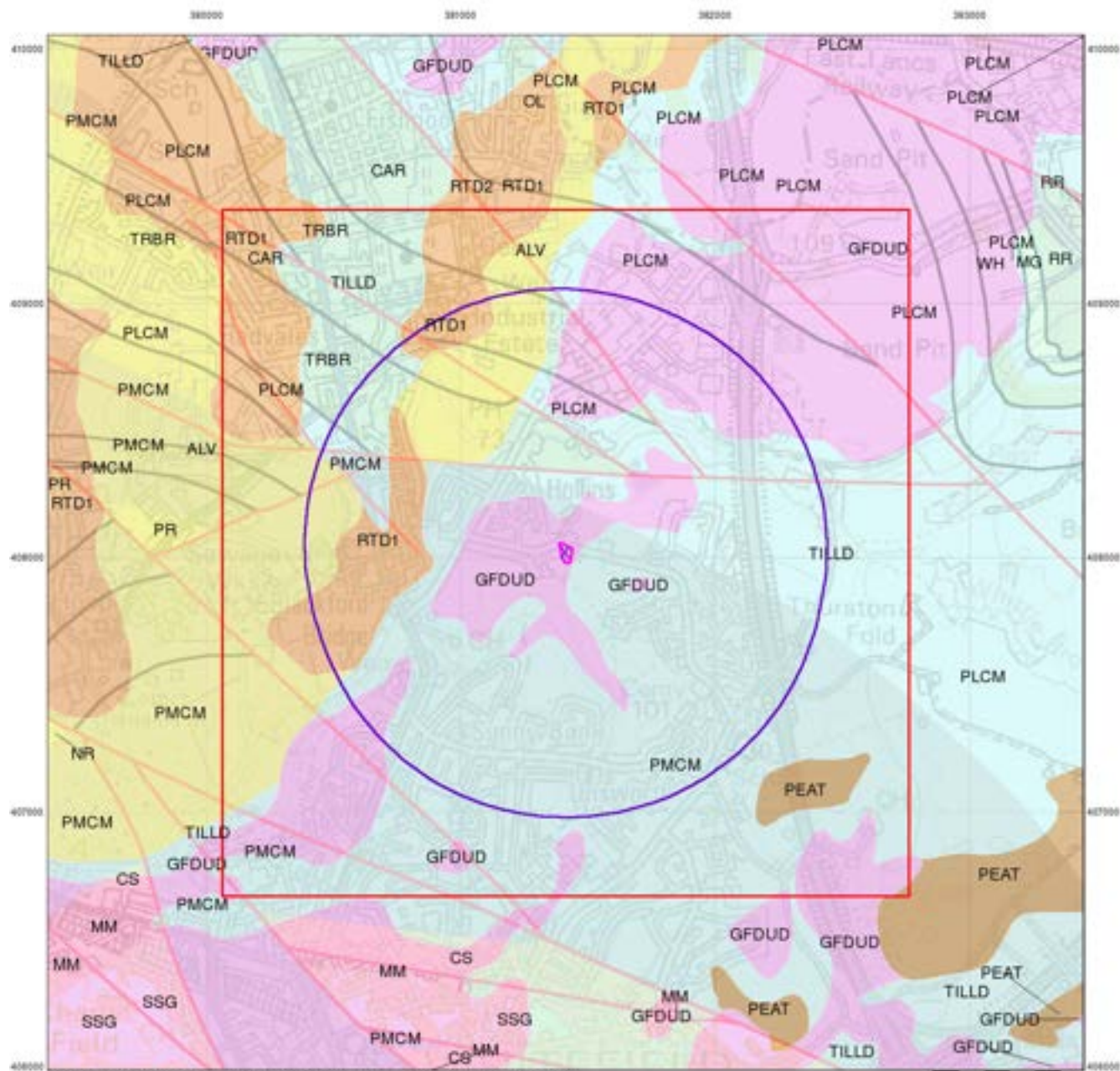
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Combined Surface Geology

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.

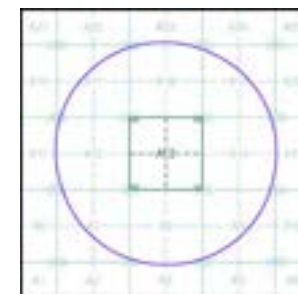
Additional Information

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

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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



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Envirocheck[®] Report:

BGS Boreholes Datasheet

Order Details:

Order Number:

44728217_1_1

Customer Reference:

LKC 12 1111

National Grid Reference:

381410, 408020

Slice:

A

Site Area (Ha):

0.26

Borehole Search Buffer (m):

1000

Site Details:

Hollins Farm
247 Hollins Lane
Bury
Lancashire
BL9 8AS

Client Details:

L Consult
LK Consult Ltd
Bury Business Centre
Kay Street
Bury
Lancashire
BL9 6BU

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m
BGS Boreholes	pg 1	None	None	7	124

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

Report Version v47.0

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
100	BGS Boreholes BGS Reference: Sd80nw164 Drilled Length (m): Not Supplied Borehole Name: Croft Lane Brdg Pilsworth 1 Link to Borehole: Not Available Scan:	A18SW (NW)	400	4	381220 408420
100	BGS Boreholes BGS Reference: Sd80nw165 Drilled Length (m): Not Supplied Borehole Name: Croft Lane Brdg Pilsworth 2 Link to Borehole: Not Available Scan:	A18SW (NW)	400	4	381220 408420
100	BGS Boreholes BGS Reference: Sd80nw166 Drilled Length (m): Not Supplied Borehole Name: Croft Lane Brdg Pilsworth 3 Link to Borehole: Not Available Scan:	A18SW (NW)	400	4	381220 408420
100	BGS Boreholes BGS Reference: Sd80nw167 Drilled Length (m): Not Supplied Borehole Name: Croft Lane Brdg Pilsworth 4 Link to Borehole: Not Available Scan:	A18SW (NW)	400	4	381220 408420
100	BGS Boreholes BGS Reference: Sd80nw168 Drilled Length (m): Not Supplied Borehole Name: Croft Lane Brdg Pilsworth 5 Link to Borehole: Not Available Scan:	A18SW (NW)	400	4	381220 408420
101	BGS Boreholes BGS Reference: Sd80nw239 Drilled Length (m): 9 Borehole Name: Pilsworth Rd Swr Bury 27 Link to Borehole: http://scans.bgs.ac.uk/sobi_scans/boreholes/27437/ Scan:	A18SE (NE)	476	4	381720 408420
102	BGS Boreholes BGS Reference: Sd80nw238 Drilled Length (m): 13.3 Borehole Name: Pilsworth Rd Swr Bury 26 Link to Borehole: http://scans.bgs.ac.uk/sobi_scans/boreholes/27436/ Scan:	A18SE (NE)	493	4	381690 408460
102	BGS Boreholes BGS Reference: Sd80nw237 Drilled Length (m): 19.8 Borehole Name: Pilsworth Rd Swr Bury 25 Link to Borehole: http://scans.bgs.ac.uk/sobi_scans/boreholes/27435/ Scan:	A18SE (NE)	519	4	381670 408500
103	BGS Boreholes BGS Reference: Sd80nw214 Drilled Length (m): 8.5 Borehole Name: Pilsworth Rd Swr Bury 4 Link to Borehole: http://scans.bgs.ac.uk/sobi_scans/boreholes/27412/ Scan:	A18SE (N)	506	4	381440 408560
103	BGS Boreholes BGS Reference: Sd80nw215 Drilled Length (m): 9 Borehole Name: Pilsworth Rd Swr Bury 5 Link to Borehole: http://scans.bgs.ac.uk/sobi_scans/boreholes/27413/ Scan:	A18SE (N)	512	4	381480 408560
104	BGS Boreholes BGS Reference: Sd80nw512 Drilled Length (m): 12.5 Borehole Name: Pilsworth Road, Bury, Lancashire 4 Link to Borehole: http://scans.bgs.ac.uk/sobi_scans/boreholes/17984116/ Scan:	A18SW (N)	509	4	381315 408561
104	BGS Boreholes BGS Reference: Sd80nw509 Drilled Length (m): 12 Borehole Name: Pilsworth Road, Bury, Lancashire 1 Link to Borehole: http://scans.bgs.ac.uk/sobi_scans/boreholes/17984113/ Scan:	A18SW (N)	517	4	381345 408572

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
104	BGS Boreholes BGS Reference: Sd80nw212 Drilled Length (m): 12 Borehole Name: Pilsworth Rd Swr Bury 2 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/27410/	A18SW (N)	519	4	381310 408570
104	BGS Boreholes BGS Reference: Sd80nw510 Drilled Length (m): 12 Borehole Name: Pilsworth Road, Bury, Lancashire 2 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/17984114/	A18SW (N)	553	4	381345 408608
105	BGS Boreholes BGS Reference: Sd80nw213 Drilled Length (m): 6.5 Borehole Name: Pilsworth Rd Swr Bury 3 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/27411/	A18SW (N)	513	4	381390 408570
106	BGS Boreholes BGS Reference: Sd80nw216 Drilled Length (m): 7 Borehole Name: Pilsworth Rd Swr Bury 6 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/27414/	A18SE (N)	515	4	381540 408550
107	BGS Boreholes BGS Reference: Sd80nw217 Drilled Length (m): 7 Borehole Name: Pilsworth Rd Swr Bury 7 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/27415/	A18SE (N)	528	4	381580 408550
107	BGS Boreholes BGS Reference: Sd80nw218 Drilled Length (m): 6.5 Borehole Name: Pilsworth Rd Swr Bury 8 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/27416/	A18SE (N)	533	4	381620 408540
108	BGS Boreholes BGS Reference: Sd80nw450 Drilled Length (m): 3 Borehole Name: Hollins Lane Unsworth 1 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/15625595/	A14NW (E)	534	4	381940 408220
108	BGS Boreholes BGS Reference: Sd80nw451 Drilled Length (m): 4 Borehole Name: Hollins Lane Unsworth 2 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/15625597/	A14NW (E)	569	4	381970 408240
108	BGS Boreholes BGS Reference: Sd80nw452 Drilled Length (m): 3.5 Borehole Name: Hollins Lane Unsworth 3 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/15625598/	A14NW (NE)	594	4	381980 408280
109	BGS Boreholes BGS Reference: Sd80nw211 Drilled Length (m): 12.2 Borehole Name: Pilsworth Rd Swr Bury 1 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/27409/	A18SW (N)	536	4	381270 408580
110	BGS Boreholes BGS Reference: Sd80nw242 Drilled Length (m): 65 Borehole Name: Bury Golf Club Abh Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/27440/	A7NE (SW)	537	4	380970 407670
111	BGS Boreholes BGS Reference: Sd80nw511 Drilled Length (m): 13 Borehole Name: Pilsworth Road, Bury, Lancashire 3 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/17984115/	A18SW (N)	565	4	381383 408622

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112	BGS Boreholes BGS Reference: Sd80nw183 Drilled Length (m): 9 Borehole Name: Hollins Lane Bury 2 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/27381/	A14SW (SE)	594	4	381970 407740
113	BGS Boreholes BGS Reference: Sd80nw182 Drilled Length (m): 9 Borehole Name: Hollins Lane Bury 1 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/27380/	A9NW (SE)	595	4	381940 407680
114	BGS Boreholes BGS Reference: Sd80nw5 Drilled Length (m): 55.16 Borehole Name: Kilnercroft Dyeing Co Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/27198/	A9NW (SE)	599	4	381880 407590
115	BGS Boreholes BGS Reference: Sd80nw185 Drilled Length (m): 9 Borehole Name: Hollins Lane Bury 4 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/27383/	A14SW (E)	604	4	382000 407790
116	BGS Boreholes BGS Reference: Sd80nw219 Drilled Length (m): 7.3 Borehole Name: Pilsworth Rd Swr Bury 9 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/27417/	A18SE (NE)	605	4	381660 408600
117	BGS Boreholes BGS Reference: Sd80nw453 Drilled Length (m): 12 Borehole Name: Hollins Lane Unsworth 4 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/15625599/	A14NW (NE)	607	4	381980 408310
118	BGS Boreholes BGS Reference: Sd80nw368 Drilled Length (m): 10 Borehole Name: Bury Ucsos Bhc Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/27566/	A8NE (S)	616	4	381560 407380
119	BGS Boreholes BGS Reference: Sd80nw454 Drilled Length (m): 2.5 Borehole Name: Hollins Lane Unsworth 6 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/15625601/	A14NW (NE)	621	4	381980 408340
120	BGS Boreholes BGS Reference: Sd80nw186 Drilled Length (m): 9 Borehole Name: Hollins Lane Bury 5 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/27384/	A14SW (E)	622	4	382040 407870
121	BGS Boreholes BGS Reference: Sd80nw101 Drilled Length (m): Not Supplied Borehole Name: M66 Bury Easterly By-Pass. 24w Link to Borehole Scan: Not Available	A14SE (E)	663	4	382100 408000
122	BGS Boreholes BGS Reference: Sd80nw102 Drilled Length (m): Not Supplied Borehole Name: M66 Bury Easterly By-Pass. 25-25b Link to Borehole Scan: Not Available	A14NE (E)	665	4	382100 408100
123	BGS Boreholes BGS Reference: Sd80nw187 Drilled Length (m): 9 Borehole Name: Hollins Lane Bury 6 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/27385/	A14SE (E)	672	4	382110 408010

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124	BGS Boreholes BGS Reference: Sd80nw99 Drilled Length (m): Not Supplied Borehole Name: M66 Bury Easterly By-Pass. 22e-22w Link to Borehole Scan: Not Available	A14SE (E)	675	4	382100 407900
125	BGS Boreholes BGS Reference: Sd80nw455 Drilled Length (m): 1.05 Borehole Name: Castle Road Tp 1 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/15638219/	A9NW (SE)	679	4	381991 407604
125	BGS Boreholes BGS Reference: Sd80nw456 Drilled Length (m): 2.05 Borehole Name: Castle Road Tp 2 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/15638220/	A9NW (SE)	704	4	382033 407622
125	BGS Boreholes BGS Reference: Sd80nw461 Drilled Length (m): 2.4 Borehole Name: Castle Road Tp 7 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/15638227/	A9NW (SE)	717	4	382023 407582
125	BGS Boreholes BGS Reference: Sd80nw462 Drilled Length (m): 2 Borehole Name: Castle Road Tp 8 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/15638228/	A9NW (SE)	731	4	382006 407535
126	BGS Boreholes BGS Reference: Sd80nw220 Drilled Length (m): 6.9 Borehole Name: Pilsworth Rd Swr Bury 10 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/27418/	A18SE (NE)	680	4	381710 408660
127	BGS Boreholes BGS Reference: Sd80nw366 Drilled Length (m): 10 Borehole Name: Bury Ucsos Bh1 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/27564/	A7NE (SW)	686	4	380950 407470
127	BGS Boreholes BGS Reference: Sd80nw367 Drilled Length (m): 10 Borehole Name: Bury Ucsos Bh2 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/27565/	A7NE (SW)	728	4	380910 407450
128	BGS Boreholes BGS Reference: Sd80nw226 Drilled Length (m): 7.5 Borehole Name: Pilsworth Rd Swr Bury 16 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/27424/	A19SW (NE)	691	4	381950 408500
129	BGS Boreholes BGS Reference: Sd80nw97 Drilled Length (m): Not Supplied Borehole Name: M66 Bury Easterly By-Pass. 20.20e,20w Link to Borehole Scan: Not Available	A14SE (E)	696	4	382100 407800
130	BGS Boreholes BGS Reference: Sd80nw365 Drilled Length (m): 89 Borehole Name: Castle Brook Business Park Link to Borehole Scan: Not Available	A18NE (N)	704	4	381680 408700
130	BGS Boreholes BGS Reference: Sd80nw379 Drilled Length (m): 89 Borehole Name: Castle Brook Business Park Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/27577/	A18NE (N)	704	4	381680 408700

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131	BGS Boreholes BGS Reference: Sd80nw227 Drilled Length (m): 6.7 Borehole Name: Pilsworth Rd Swr Bury 17 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/27425/	A19SW (NE)	704	4	382000 408460
132	BGS Boreholes BGS Reference: Sd80nw105 Drilled Length (m): Not Supplied Borehole Name: M66 Bury Easterly By-Pass. 28a-E Link to Borehole Scan: Not Available	A14NE (E)	712	4	382100 408300
132	BGS Boreholes BGS Reference: Sd80nw106 Drilled Length (m): Not Supplied Borehole Name: M66 Bury Easterly By-Pass. 5854/1-2 Link to Borehole Scan: Not Available	A14NE (E)	712	4	382100 408300
132	BGS Boreholes BGS Reference: Sd80nw108 Drilled Length (m): Not Supplied Borehole Name: M66 Bury Easterly By-Pass. 29 B,C,E,F,G Link to Borehole Scan: Not Available	A14NE (E)	712	4	382100 408300
133	BGS Boreholes BGS Reference: Sd80nw184 Drilled Length (m): 9 Borehole Name: Hollins Lane Bury 3 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/27382/	A14SE (SE)	718	4	382100 407730
134	BGS Boreholes BGS Reference: Sd80nw100 Drilled Length (m): Not Supplied Borehole Name: M66 Bury Easterly By-Pass. 23 Link to Borehole Scan: Not Available	A14SE (E)	725	4	382160 407970
135	BGS Boreholes BGS Reference: Sd80nw225 Drilled Length (m): 5 Borehole Name: Pilsworth Rd Swr Bury 15 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/27423/	A19SW (NE)	725	4	381940 408560
136	BGS Boreholes BGS Reference: Sd80nw457 Drilled Length (m): 1.7 Borehole Name: Castle Road Tp 3 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/15638221/	A9NW (SE)	726	4	382065 407634
136	BGS Boreholes BGS Reference: Sd80nw458 Drilled Length (m): 1.7 Borehole Name: Castle Road Tp 4 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/15638222/	A9NE (SE)	748	4	382096 407646
136	BGS Boreholes BGS Reference: Sd80nw459 Drilled Length (m): 2.1 Borehole Name: Castle Road Tp 5 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/15638223/	A9NE (SE)	764	4	382095 407610
137	BGS Boreholes BGS Reference: Sd80nw103 Drilled Length (m): Not Supplied Borehole Name: M66 Bury Easterly By-Pass. 26 Link to Borehole Scan: Not Available	A14NE (E)	731	4	382140 408240
138	BGS Boreholes BGS Reference: Sd80nw224 Drilled Length (m): 8.3 Borehole Name: Pilsworth Rd Swr Bury 14 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/27422/	A19SW (NE)	737	4	381900 408610

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
139	BGS Boreholes BGS Reference: Sd80nw460 Drilled Length (m): 2.05 Borehole Name: Castle Road Tp 6 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/15638224/	A9NW (SE)	738	4	382055 407594
139	BGS Boreholes BGS Reference: Sd80nw463 Drilled Length (m): 2 Borehole Name: Castle Road Tp 9 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/15638229/	A9NW (SE)	748	4	382037 407549
139	BGS Boreholes BGS Reference: Sd80nw464 Drilled Length (m): 2.5 Borehole Name: Castle Road Tp 10 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/15638230/	A9NW (SE)	768	4	382070 407561
139	BGS Boreholes BGS Reference: Sd80nw465 Drilled Length (m): 2.6 Borehole Name: Castle Road Tp 11 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/15638231/	A9NE (SE)	788	4	382101 407573
139	BGS Boreholes BGS Reference: Sd80nw468 Drilled Length (m): 2.5 Borehole Name: Castle Road Tp 14 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/15638237/	A9NE (SE)	798	4	382089 407535
140	BGS Boreholes BGS Reference: Sd80nw222 Drilled Length (m): 10 Borehole Name: Pilsworth Rd Swr Bury 12 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/27420/	A19SW (NE)	739	4	381800 408680
141	BGS Boreholes BGS Reference: Sd80nw2 Drilled Length (m): 101.8 Borehole Name: Hampson Mills Bury Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/27195/	A17SE (NW)	740	4	380780 408480
142	BGS Boreholes BGS Reference: Sd80nw41 Drilled Length (m): 13.79 Borehole Name: Sunny Bank Extension. 91 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/27234/	A8SE (S)	740	4	381540 407250
143	BGS Boreholes BGS Reference: Sd80nw228 Drilled Length (m): 6.8 Borehole Name: Pilsworth Rd Swr Bury 18 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/27426/	A19SW (NE)	741	4	382060 408440
143	BGS Boreholes BGS Reference: Sd80nw229 Drilled Length (m): 8 Borehole Name: Pilsworth Rd Swr Bury 19 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/27427/	A19SE (NE)	775	4	382100 408440
144	BGS Boreholes BGS Reference: Sd80nw39 Drilled Length (m): 12.19 Borehole Name: Sunny Bank Extension. 89 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/27232/	A8SE (S)	742	4	381460 407240
144	BGS Boreholes BGS Reference: Sd80nw40 Drilled Length (m): 14.71 Borehole Name: Sunny Bank Extension. 90 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/27233/	A8SE (S)	781	4	381440 407200

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145	BGS Boreholes BGS Reference: Sd80nw4 Drilled Length (m): 131.9 Borehole Name: Blackford Bridge Whitehall 1 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/27197/	A7NE (SW)	743	4	380770 407600
146	BGS Boreholes BGS Reference: Sd80nw221 Drilled Length (m): 8.8 Borehole Name: Pilsworth Rd Swr Bury 11 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/27419/	A18NE (NE)	743	4	381750 408710
147	BGS Boreholes BGS Reference: Sd80nw107 Drilled Length (m): Not Supplied Borehole Name: M66 Bury Easterly By-Pass. 29a Link to Borehole Scan: Not Available	A19SW (NE)	744	4	382070 408430
147	BGS Boreholes BGS Reference: Sd80nw111 Drilled Length (m): Not Supplied Borehole Name: M66 Bury Easterly By-Pass. 5855/1-4 Link to Borehole Scan: Not Available	A19SE (NE)	755	4	382100 408400
148	BGS Boreholes BGS Reference: Sd80nw223 Drilled Length (m): 10.5 Borehole Name: Pilsworth Rd Swr Bury 13 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/27421/	A19SW (NE)	748	4	381850 408660
149	BGS Boreholes BGS Reference: Sd80nw3 Drilled Length (m): 52.73 Borehole Name: Blackford Bridge Whitehall 2 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/27196/	A7NW (SW)	755	4	380730 407650
150	BGS Boreholes BGS Reference: Sd80nw98 Drilled Length (m): Not Supplied Borehole Name: M66 Bury Easterly By-Pass. 21 Link to Borehole Scan: Not Available	A14SE (E)	761	4	382180 407860
151	BGS Boreholes BGS Reference: Sd80nw370 Drilled Length (m): Not Supplied Borehole Name: Bibby & Barron Ltd Link to Borehole Scan: Not Available	A17SE (NW)	766	4	380770 408510
152	BGS Boreholes BGS Reference: Sd80nw109 Drilled Length (m): Not Supplied Borehole Name: M66 Bury Easterly By-Pass. 29d Link to Borehole Scan: Not Available	A14NE (E)	768	4	382160 408300
153	BGS Boreholes BGS Reference: Sd80nw506 Drilled Length (m): Not Supplied Borehole Name: Bury, Pilsworth Industrial Estate 4 Link to Borehole Scan: Not Available	A19SW (NE)	773	4	381920 408640
154	BGS Boreholes BGS Reference: Sd80nw104 Drilled Length (m): Not Supplied Borehole Name: M66 Bury Easterly By-Pass. 27.27a Link to Borehole Scan: Not Available	A14NE (E)	779	4	382200 408200
155	BGS Boreholes BGS Reference: Sd80nw30 Drilled Length (m): 6.86 Borehole Name: Sunny Bank Road Extension. 80 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/27223/	A8SW (S)	780	4	381390 407200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
156	BGS Boreholes BGS Reference: Sd80nw112 Drilled Length (m): Not Supplied Borehole Name: M66 Bury Easterly By-Pass. 30w Link to Borehole: Not Available Scan:	A19SW (NE)	780	4	382050 408520
157	BGS Boreholes BGS Reference: Sd80nw29 Drilled Length (m): 12.04 Borehole Name: Sunny Bank Road Extension. 79 Link to Borehole: http://scans.bgs.ac.uk/sobi_scans/boreholes/27222/ Scan:	A8SE (S)	795	4	381500 407190
158	BGS Boreholes BGS Reference: Sd80nw28 Drilled Length (m): 5.64 Borehole Name: Sunny Bank Road Extension. 78 Link to Borehole: http://scans.bgs.ac.uk/sobi_scans/boreholes/27221/ Scan:	A8SE (S)	796	4	381580 407200
159	BGS Boreholes BGS Reference: Sd80nw96 Drilled Length (m): Not Supplied Borehole Name: M66 Bury Easterly By-Pass. 19 Link to Borehole: Not Available Scan:	A14SE (E)	803	4	382190 407730
160	BGS Boreholes BGS Reference: Sd80nw466 Drilled Length (m): 2.25 Borehole Name: Castle Road Tp 12 Link to Borehole: http://scans.bgs.ac.uk/sobi_scans/boreholes/15638232/ Scan:	A9NE (SE)	806	4	382131 407588
160	BGS Boreholes BGS Reference: Sd80nw467 Drilled Length (m): 2.3 Borehole Name: Castle Road Tp 13 Link to Borehole: http://scans.bgs.ac.uk/sobi_scans/boreholes/15638234/ Scan:	A9NE (SE)	824	4	382129 407550
160	BGS Boreholes BGS Reference: Sd80nw469 Drilled Length (m): 2 Borehole Name: Castle Road Tp 15 Link to Borehole: http://scans.bgs.ac.uk/sobi_scans/boreholes/15638238/ Scan:	A9NE (SE)	847	4	382136 407517
161	BGS Boreholes BGS Reference: Sd80nw507 Drilled Length (m): Not Supplied Borehole Name: Bury, Pilsworth Industrial Estate 5 Link to Borehole: Not Available Scan:	A19SW (NE)	817	4	382010 408620
162	BGS Boreholes BGS Reference: Sd80nw42 Drilled Length (m): 12.34 Borehole Name: Sunny Bank Extension. 92 Link to Borehole: http://scans.bgs.ac.uk/sobi_scans/boreholes/27235/ Scan:	A8SE (S)	823	4	381740 407220
162	BGS Boreholes BGS Reference: Sd80nw44 Drilled Length (m): 24.38 Borehole Name: Sunny Bank Extension. 94 Link to Borehole: http://scans.bgs.ac.uk/sobi_scans/boreholes/27237/ Scan:	A9SW (SE)	840	4	381780 407220
163	BGS Boreholes BGS Reference: Sd80nw503 Drilled Length (m): Not Supplied Borehole Name: Bury, Pilsworth Industrial Estate 1 Link to Borehole: Not Available Scan:	A19NW (NE)	832	4	381940 408700
163	BGS Boreholes BGS Reference: Sd80nw505 Drilled Length (m): Not Supplied Borehole Name: Bury, Pilsworth Industrial Estate 3 Link to Borehole: Not Available Scan:	A19SW (NE)	834	4	381980 408670

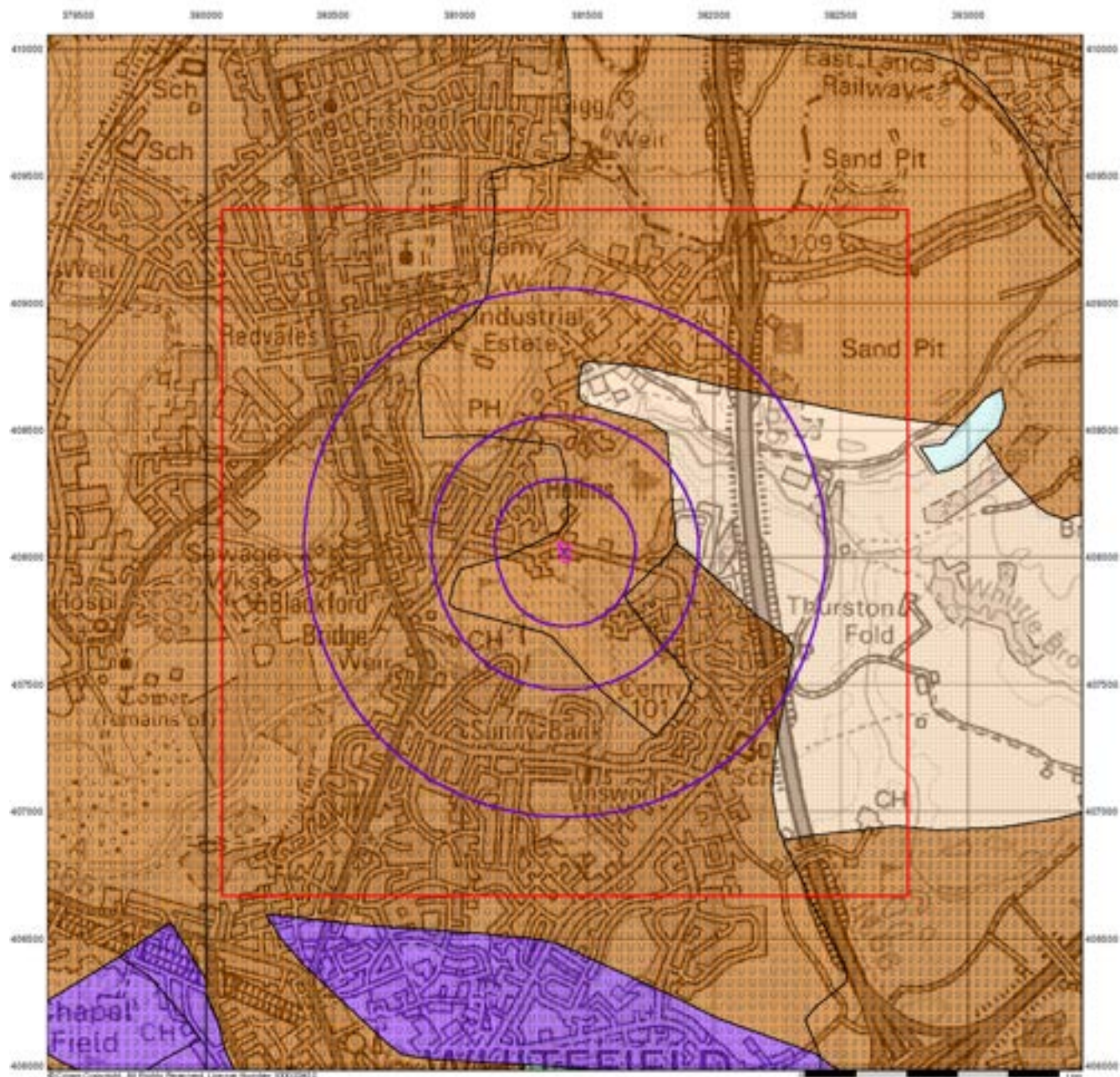
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164	BGS Boreholes BGS Reference: Sd80nw110 Drilled Length (m): Not Supplied Borehole Name: M66 Bury Easterly By-Pass. 30 Link to Borehole: Not Available Scan:	A19SE (NE)	835	4	382180 408420
165	BGS Boreholes BGS Reference: Sd80nw230 Drilled Length (m): 10.5 Borehole Name: Pilsworth Rd Swr Bury 20 Link to Borehole: http://scans.bgs.ac.uk/sobi_scans/boreholes/27428/ Scan:	A19SE (NE)	836	4	382170 408440
166	BGS Boreholes BGS Reference: Sd80nw95 Drilled Length (m): Not Supplied Borehole Name: M66 Bury Easterly By-Pass. 18e-18w Link to Borehole: Not Available Scan:	A9NE (SE)	862	4	382200 407600
166	BGS Boreholes BGS Reference: Sd80nw94 Drilled Length (m): Not Supplied Borehole Name: M66 Bury Easterly By-Pass. 17 Link to Borehole: Not Available Scan:	A9NE (SE)	875	4	382220 407610
167	BGS Boreholes BGS Reference: Sd80nw45 Drilled Length (m): 19.81 Borehole Name: Sunny Bank Extension. 95 Link to Borehole: http://scans.bgs.ac.uk/sobi_scans/boreholes/27238/ Scan:	A8SE (S)	863	4	381720 407170
167	BGS Boreholes BGS Reference: Sd80nw43 Drilled Length (m): 13.87 Borehole Name: Sunny Bank Extension. 93 Link to Borehole: http://scans.bgs.ac.uk/sobi_scans/boreholes/27236/ Scan:	A8SE (S)	870	4	381740 407170
168	BGS Boreholes BGS Reference: Sd80nw240 Drilled Length (m): 8.5 Borehole Name: Pilsworth Rd Swr Bury 28 Link to Borehole: http://scans.bgs.ac.uk/sobi_scans/boreholes/27438/ Scan:	A14NE (E)	863	4	382250 408330
169	BGS Boreholes BGS Reference: Sd80nw114 Drilled Length (m): Not Supplied Borehole Name: M66 Bury Easterly By-Pass. 31w,E, 32a-C,32e,W Link to Borehole: Not Available Scan:	A19SE (NE)	869	4	382100 408600
169	BGS Boreholes BGS Reference: Sd80nw115 Drilled Length (m): Not Supplied Borehole Name: M66 Bury Easterly By-Pass. 33 Link to Borehole: Not Available Scan:	A19SE (NE)	911	4	382120 408640
170	BGS Boreholes BGS Reference: Sd80nw232 Drilled Length (m): 15.5 Borehole Name: Pilsworth Rd Swr Bury 21a Link to Borehole: http://scans.bgs.ac.uk/sobi_scans/boreholes/27430/ Scan:	A19SE (NE)	880	4	382220 408440
170	BGS Boreholes BGS Reference: Sd80nw231 Drilled Length (m): 10.5 Borehole Name: Pilsworth Rd Swr Bury 21 Link to Borehole: http://scans.bgs.ac.uk/sobi_scans/boreholes/27429/ Scan:	A19SE (NE)	907	4	382260 408420
171	BGS Boreholes BGS Reference: Sd80nw504 Drilled Length (m): Not Supplied Borehole Name: Bury, Pilsworth Industrial Estate 2 Link to Borehole: Not Available Scan:	A19SW (NE)	882	4	382030 408690

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
172	BGS Boreholes BGS Reference: Sd80nw113 Drilled Length (m): Not Supplied Borehole Name: M66 Bury Easterly By-Pass. 30e Link to Borehole: Not Available Scan:	A19SE (NE)	900	4	382210 408500
173	BGS Boreholes BGS Reference: Sd80nw27 Drilled Length (m): 11.43 Borehole Name: Sunny Bank Road Extension. 77 Link to Borehole: http://scans.bgs.ac.uk/sobi_scans/boreholes/27220/ Scan:	A9SW (SE)	907	4	381810 407160
174	BGS Boreholes BGS Reference: Sd80nw93 Drilled Length (m): Not Supplied Borehole Name: M66 Bury Easterly By-Pass. 5852/1-5 Link to Borehole: Not Available Scan:	A9NE (SE)	911	4	382200 407500
175	BGS Boreholes BGS Reference: Sd80nw486 Drilled Length (m): Not Supplied Borehole Name: Proposed Sludge Digestion Plants Bury And Rochdale Bsd2 Link to Borehole: Not Available Scan:	A12SW (W)	913	4	380510 407790
175	BGS Boreholes BGS Reference: Sd80nw482 Drilled Length (m): Not Supplied Borehole Name: Proposed Sludge Digestion Plants Bury And Rochdale Bsb6 Link to Borehole: Not Available Scan:	A12SW (W)	925	4	380490 407820
176	BGS Boreholes BGS Reference: Sd80nw484 Drilled Length (m): Not Supplied Borehole Name: Proposed Sludge Digestion Plants Bury And Rochdale Bsb8 Link to Borehole: Not Available Scan:	A7NW (SW)	927	4	380550 407630
177	BGS Boreholes BGS Reference: Sd80nw117 Drilled Length (m): Not Supplied Borehole Name: M66 Bury Easterly By-Pass. 35,35w,35e Link to Borehole: Not Available Scan:	A19NE (NE)	937	4	382100 408700
177	BGS Boreholes BGS Reference: Sd80nw116 Drilled Length (m): Not Supplied Borehole Name: M66 Bury Easterly By-Pass. 34 Link to Borehole: Not Available Scan:	A19NE (NE)	952	4	382120 408700
178	BGS Boreholes BGS Reference: Sd80nw494 Drilled Length (m): Not Supplied Borehole Name: Proposed Sludge Digestion Plants Bury And Rochdale Bs/P7 Link to Borehole: Not Available Scan:	A12SW (W)	940	4	380490 407760
178	BGS Boreholes BGS Reference: Sd80nw483 Drilled Length (m): Not Supplied Borehole Name: Proposed Sludge Digestion Plants Bury And Rochdale Bsb7 Link to Borehole: Not Available Scan:	A12SW (W)	981	4	380450 407750
179	BGS Boreholes BGS Reference: Sd80nw144 Drilled Length (m): 8.2 Borehole Name: Meadway, Bury. 1 Link to Borehole: http://scans.bgs.ac.uk/sobi_scans/boreholes/27342/ Scan:	A17NW (NW)	941	4	380730 408730
179	BGS Boreholes BGS Reference: Sd80nw145 Drilled Length (m): 6.2 Borehole Name: Meadway, Bury. 2 Link to Borehole: http://scans.bgs.ac.uk/sobi_scans/boreholes/27343/ Scan:	A17NW (NW)	941	4	380730 408730

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
180	BGS Boreholes BGS Reference: Sd80nw309 Drilled Length (m): Not Supplied Borehole Name: Warner Lambert Confectionery Bury 3 Link to Borehole: Not Available Scan:	A12NW (W)	946	4	380443 408124
181	BGS Boreholes BGS Reference: Sd80nw233 Drilled Length (m): 13.3 Borehole Name: Pilsworth Rd Swr Bury 21b Link to Borehole: http://scans.bgs.ac.uk/sobi_scans/boreholes/27431/ Scan:	A19SE (NE)	948	4	382260 408510
181	BGS Boreholes BGS Reference: Sd80nw234 Drilled Length (m): 10.8 Borehole Name: Pilsworth Rd Swr Bury 22 Link to Borehole: http://scans.bgs.ac.uk/sobi_scans/boreholes/27432/ Scan:	A19SE (NE)	992	4	382310 408510
182	BGS Boreholes BGS Reference: Sd80nw493 Drilled Length (m): Not Supplied Borehole Name: Proposed Sludge Digestion Plants Bury And Rochdale Bs/P6 Link to Borehole: Not Available Scan:	A12SW (W)	959	4	380460 407800
182	BGS Boreholes BGS Reference: Sd80nw479 Drilled Length (m): Not Supplied Borehole Name: Proposed Sludge Digestion Plants Bury And Rochdale Bsb3 Link to Borehole: Not Available Scan:	A12SW (W)	962	4	380450 407830
182	BGS Boreholes BGS Reference: Sd80nw481 Drilled Length (m): Not Supplied Borehole Name: Proposed Sludge Digestion Plants Bury And Rochdale Bsb5 Link to Borehole: Not Available Scan:	A12SW (W)	978	4	380440 407800
182	BGS Boreholes BGS Reference: Sd80nw488 Drilled Length (m): Not Supplied Borehole Name: Proposed Sludge Digestion Plants Bury And Rochdale Bs/P1 Link to Borehole: Not Available Scan:	A12SW (W)	993	4	380420 407820
183	BGS Boreholes BGS Reference: Sd80nw92 Drilled Length (m): Not Supplied Borehole Name: M66 Bury Easterly By-Pass. 16 Link to Borehole: Not Available Scan:	A9NE (SE)	971	4	382240 407450
184	BGS Boreholes BGS Reference: Sd80nw310 Drilled Length (m): Not Supplied Borehole Name: Warner Lambert Confectionery Bury 4 Link to Borehole: Not Available Scan:	A12NW (W)	981	4	380413 408177
185	BGS Boreholes BGS Reference: Sd80nw311 Drilled Length (m): Not Supplied Borehole Name: Warner Lambert Confectionery Bury 5 Link to Borehole: Not Available Scan:	A12NW (W)	987	4	380421 408258
186	BGS Boreholes BGS Reference: Sd80nw21 Drilled Length (m): 80.16 Borehole Name: Pilsworth Bleachery Whitefield Link to Borehole: http://scans.bgs.ac.uk/sobi_scans/boreholes/27214/ Scan:	A14NE (E)	997	4	382400 408300

BGS Boreholes	Version	Update Cycle
BGS Boreholes British Geological Survey - National Geoscience Information Service	January 2013	Quarterly

Contact Details	Contact Logo
4 British Geological Survey - Enquiry Service British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk	 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
- 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	 LANDMARK Information Group



Groundwater Vulnerability

General

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

Agency and Hydrological

Geological Classes

Major Aquifer
(Highly Permeable)

Minor Aquifer
(Variably Permeable)

Non Aquifer
(Negligibly Permeable)

Water or Sea

Drift Deposit

Soil Classes

High (96 1, 2, 3, U)

Intermediate (1, 2)

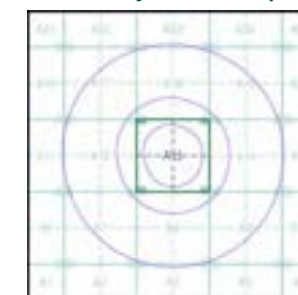
Low

High (96 1, 2, 3, U)

Intermediate (1, 2)

Low

Site Sensitivity Context Map - Slice A

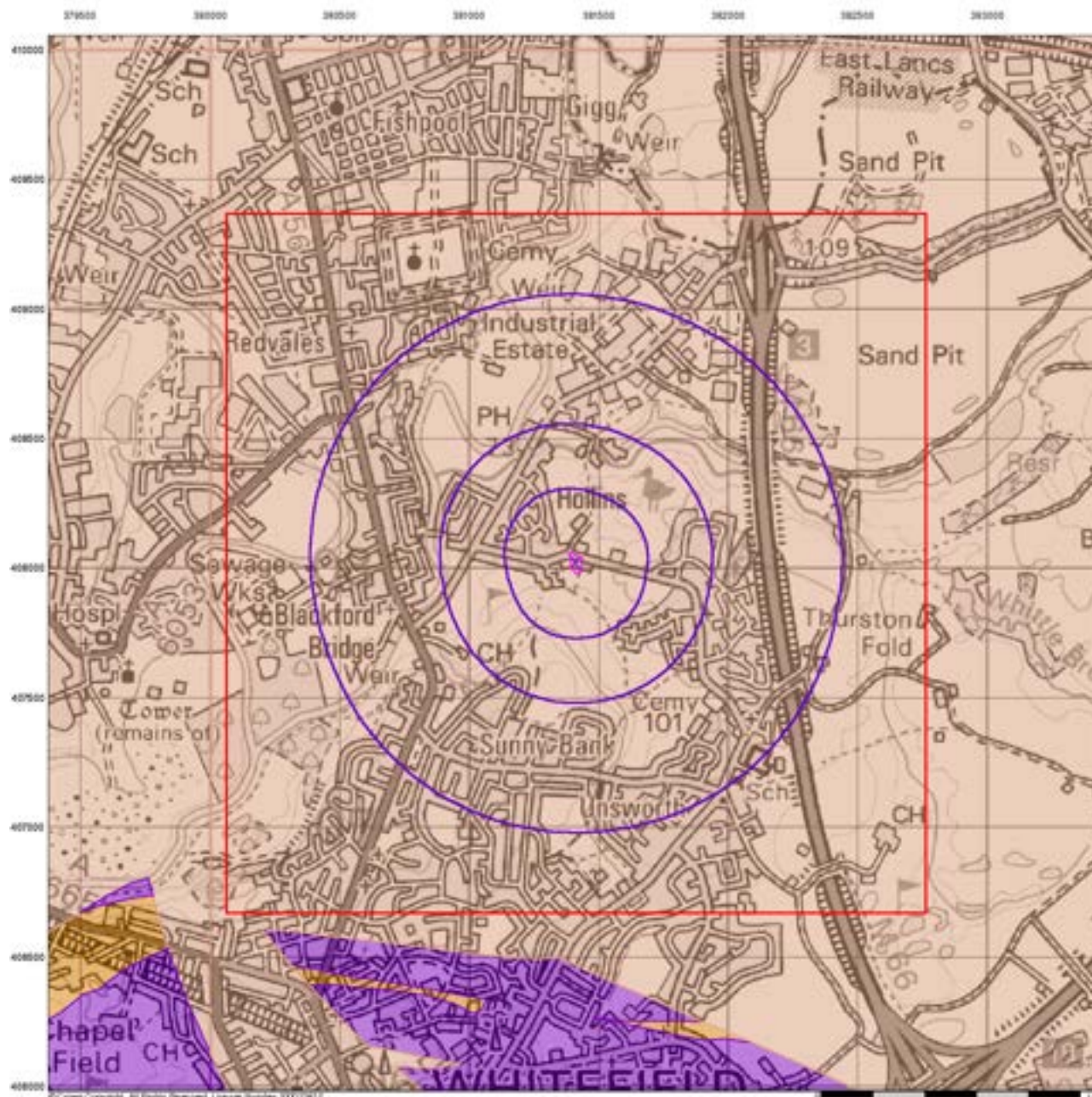


Order Details

Order Number: 44728217_1_1
Customer Ref: LKC 12 1111
National Grid Reference: 381410, 408020
Slice: A
Site Area (Ha): 0.26
Search Buffer (m): 1000

Site Details

Hollins Farm, 247 Hollins Lane, Bury, Lancashire, BL9 8AS



Bedrock Aquifer Designation

General

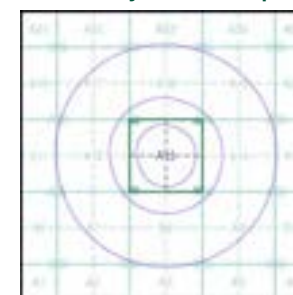
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

Site Sensitivity Context Map - Slice A



Order Details

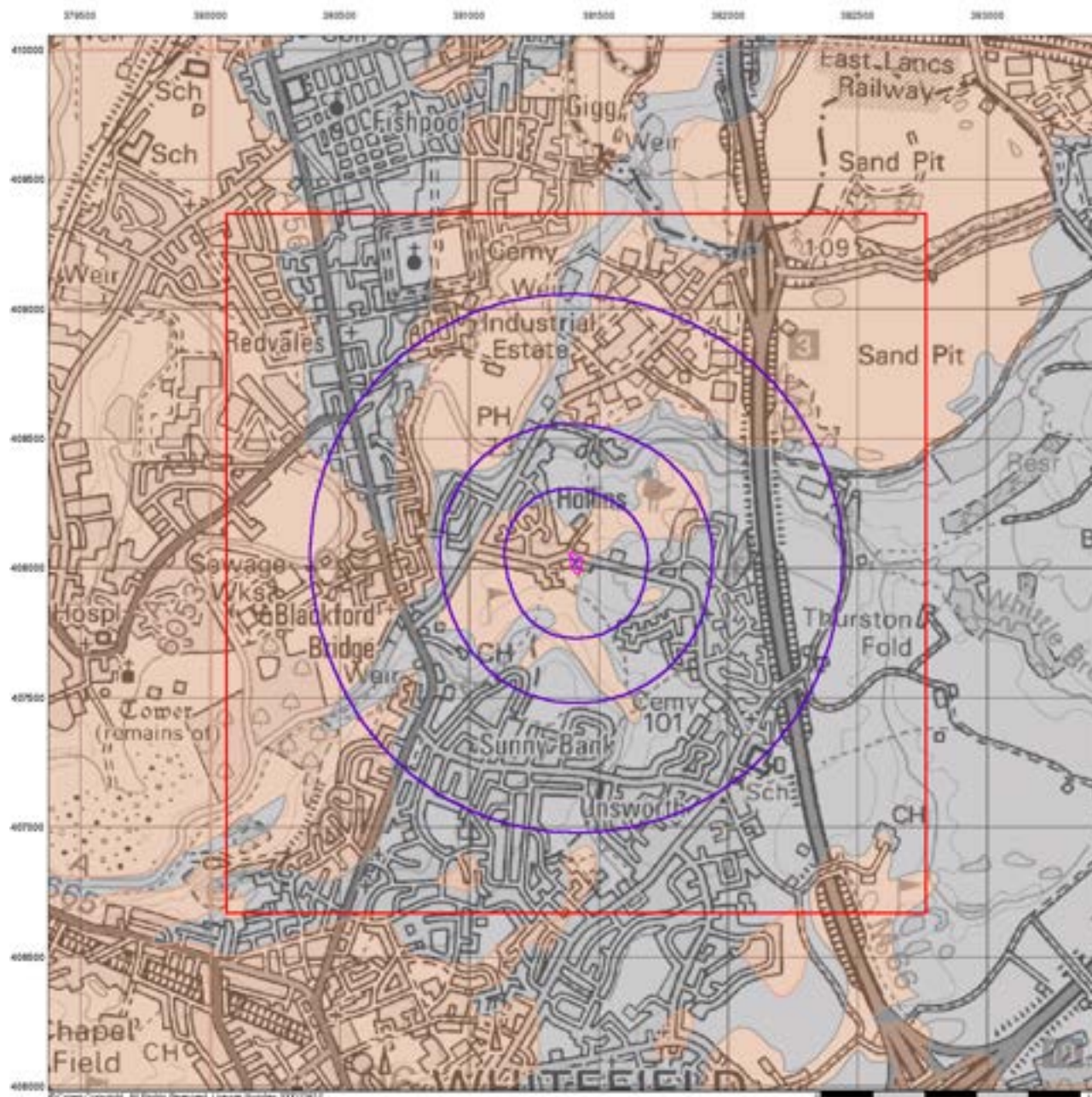
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 Search Buffer (m): 1000

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Superficial Aquifer Designation

General

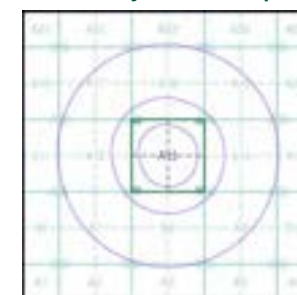
- ◇ Specified Site
- ◇ Specified Buffer(s)
- X Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

Site Sensitivity Context Map - Slice A



Order Details

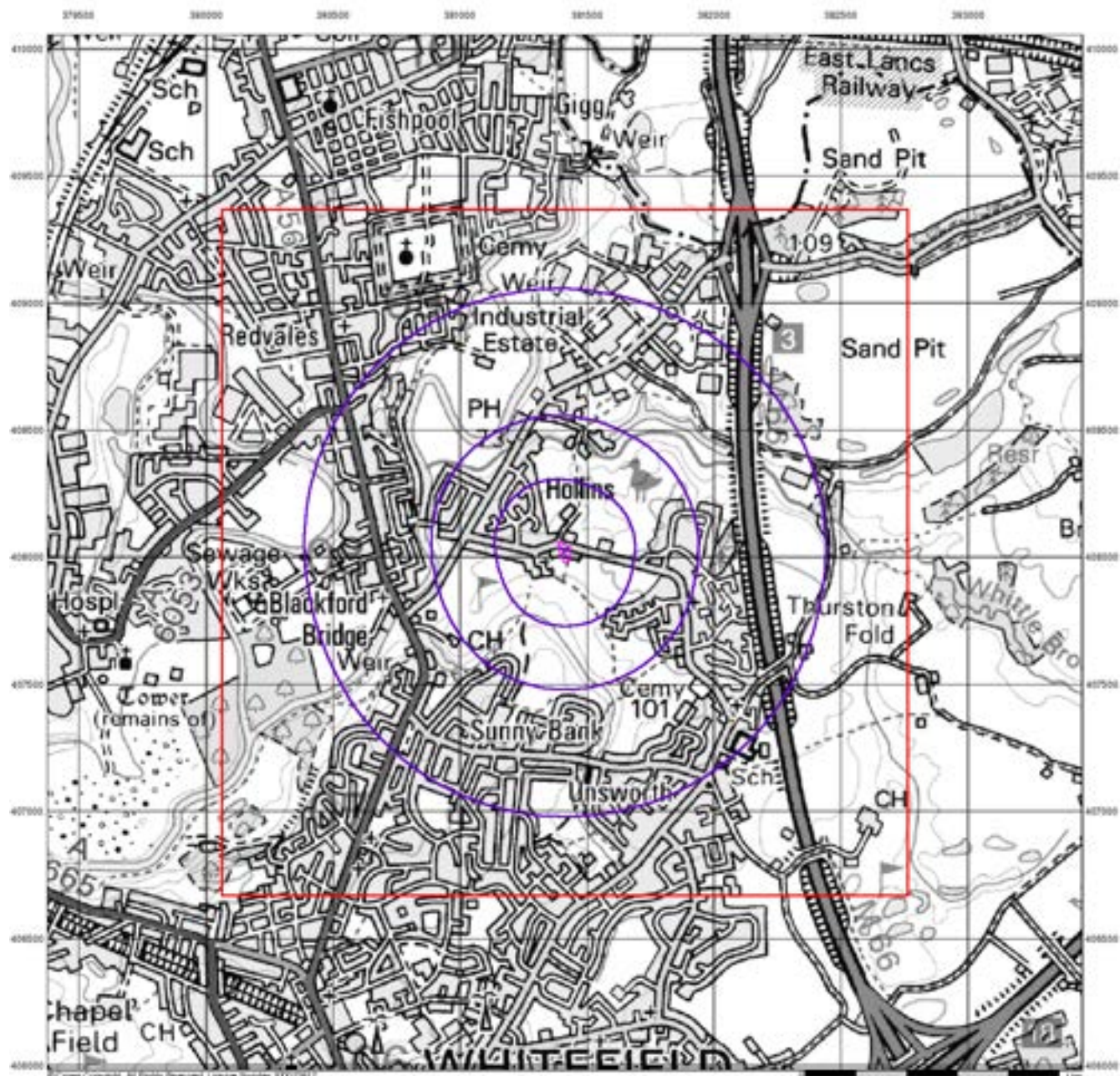
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 Search Buffer (m): 1000

Site Details

Hollins Farm, 247 Hollins Lane, Bury, Lancashire, BL9 8AS



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Source Protection Zones

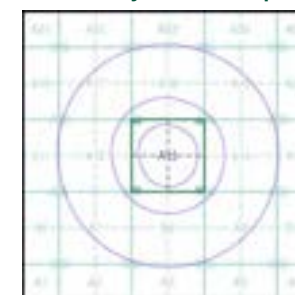
General

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

Agency and Hydrological

- Source Protection Zone I
- Source Protection Zone II
- Source Protection Zone III
- Zone of Special Interest
- Source Protection Zone Boundary

Site Sensitivity Context Map - Slice A



Order Details

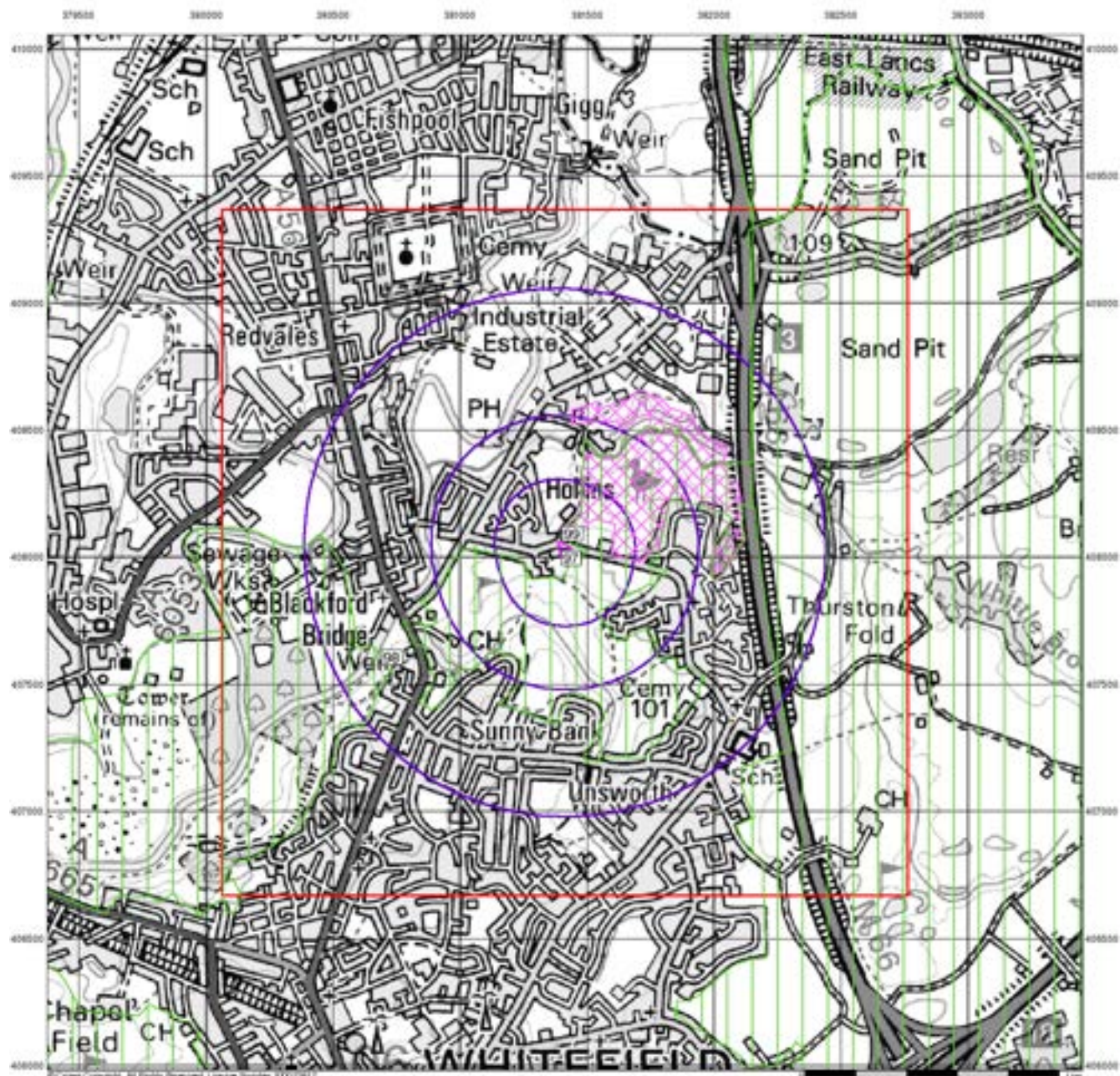
Order Number: 44728217_1_1
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 Site Area (Ha): 0.26
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Sensitive Land Uses

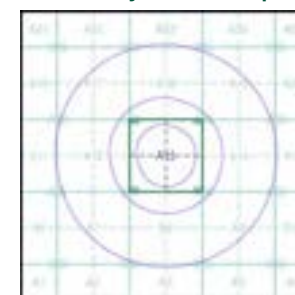
General

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

Sensitive Land Uses

- 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

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 44728217_1_1
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 Site Area (Ha): 0.26
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Geology 1:50,000 Maps Legends

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Flandrian - Flandrian
	GFDUD	Glaciofluvial Deposits, Devensian	Sand and Gravel	Devensian - Devensian
	TILLD	Till, Devensian	Diamicton	Devensian - Devensian
	RTD1	River Terrace Deposits, 1	Sand and Gravel	Quaternary - Quaternary
	RTD2	River Terrace Deposits, 2	Sand and Gravel	Quaternary - Quaternary
	PEAT	Peat	Peat	Quaternary - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	SSG	Sherwood Sandstone Group	Sandstone	Ladinian - Late Permian
	MM	Manchester Marls Formation	Mudstone	Late Permian - Late Permian
	CS	Collyhurst Sandstone Formation	Sandstone	Early Permian - Early Permian
	NR	Nob End Rock	Sandstone	Bolsovian (Westphalian C) - Bolsovian (Westphalian C)
	PMCM	Pennine Middle Coal Measures Formation	Mudstone, Siltstone and Sandstone	Bolsovian (Westphalian C) - Duckmantian (Westphalian B)
	PR	Peel Hall Rock	Sandstone	Duckmantian (Westphalian B) - Duckmantian (Westphalian B)
	PLCM	Pennine Lower Coal Measures Formation	Mudstone, Siltstone and Sandstone	Langsettian (Westphalian A) - Langsettian (Westphalian A)
	TRBR	Trencherbone Rock	Sandstone	Langsettian (Westphalian A) - Langsettian (Westphalian A)
	CAR	Cannel Rock (South Lancashire)	Sandstone	Langsettian (Westphalian A) - Langsettian (Westphalian A)
	PLCM	Pennine Lower Coal Measures Formation	Sandstone	Langsettian (Westphalian A) - Langsettian (Westphalian A)

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
				Langsettian (Westphalian A)
	OL	Old Lawrence Rock	Sandstone	Langsettian (Westphalian A) - Langsettian (Westphalian A)
	WH	Woodhead Hill Rock	Sandstone	Langsettian (Westphalian A) - Langsettian (Westphalian A)
	RR	Rough Rock	Sandstone	Yeadonian - Yeadonian
	MG	Millstone Grit Group [See also Migr]	Mudstone, Siltstone and Sandstone	Namurian - Namurian
		Faults		
		Rock Segments		



Geology 1:50,000 Maps

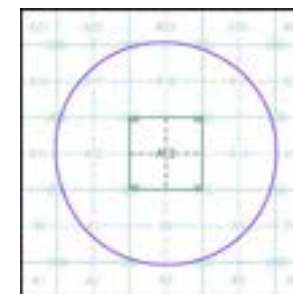
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published 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: 085
Map Name: Manchester
Map Date: 1975
Bedrock Geology: Available
Superficial Geology: Available
Artificial Geology: Not Available
Faults: Available
Landslip: Not Available
Rock Segments: Available

Geology 1:50,000 Maps - Slice A



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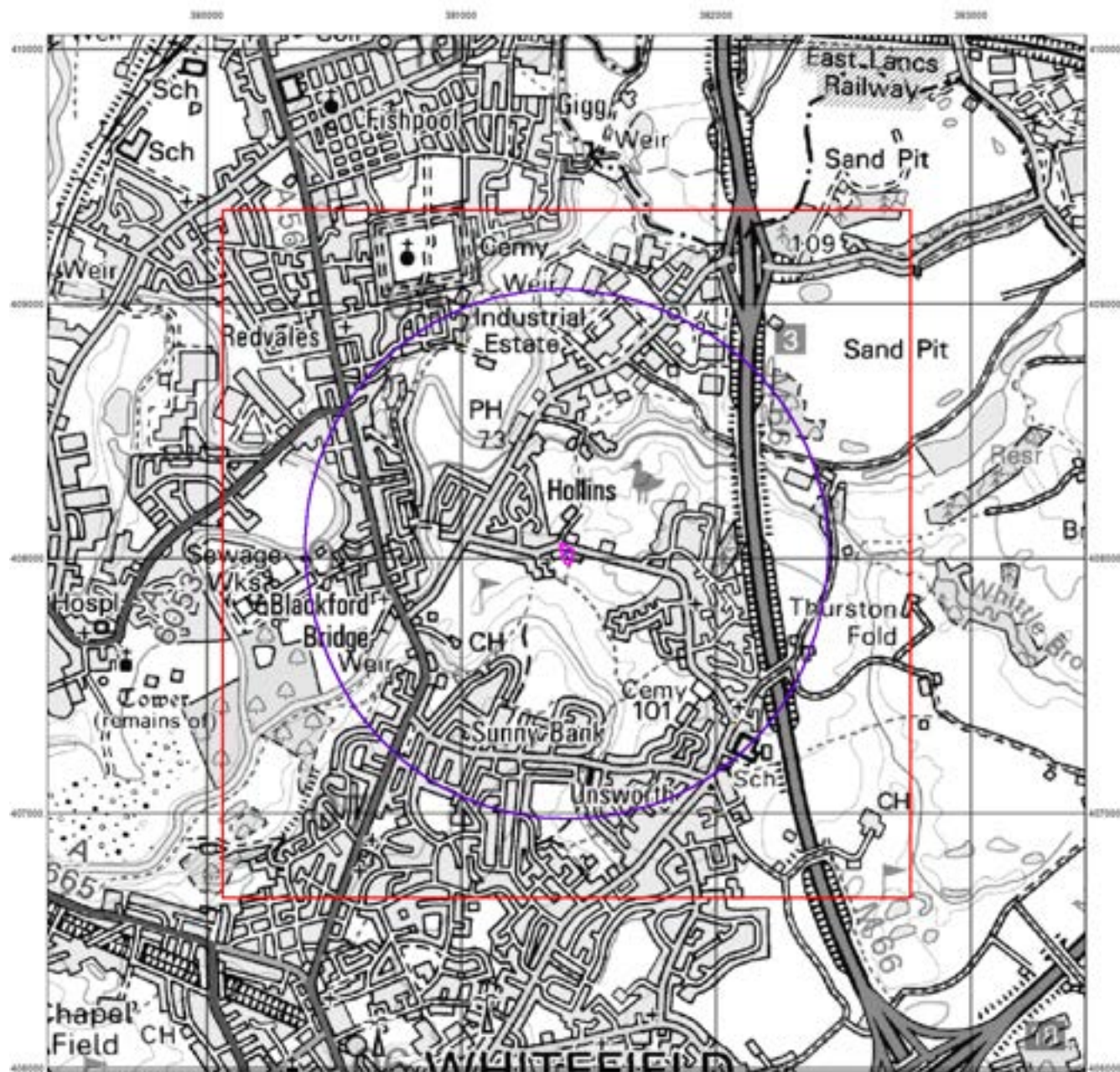
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Slice: A
Site Area (Ha): 0.26
Search Buffer (m): 1000

Site Details:

Hollins Farm, 247 Hollins Lane, Bury, Lancashire, BL9 8AS



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Artificial Ground and Landslip

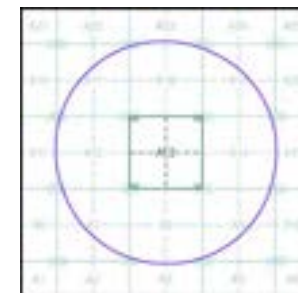
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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



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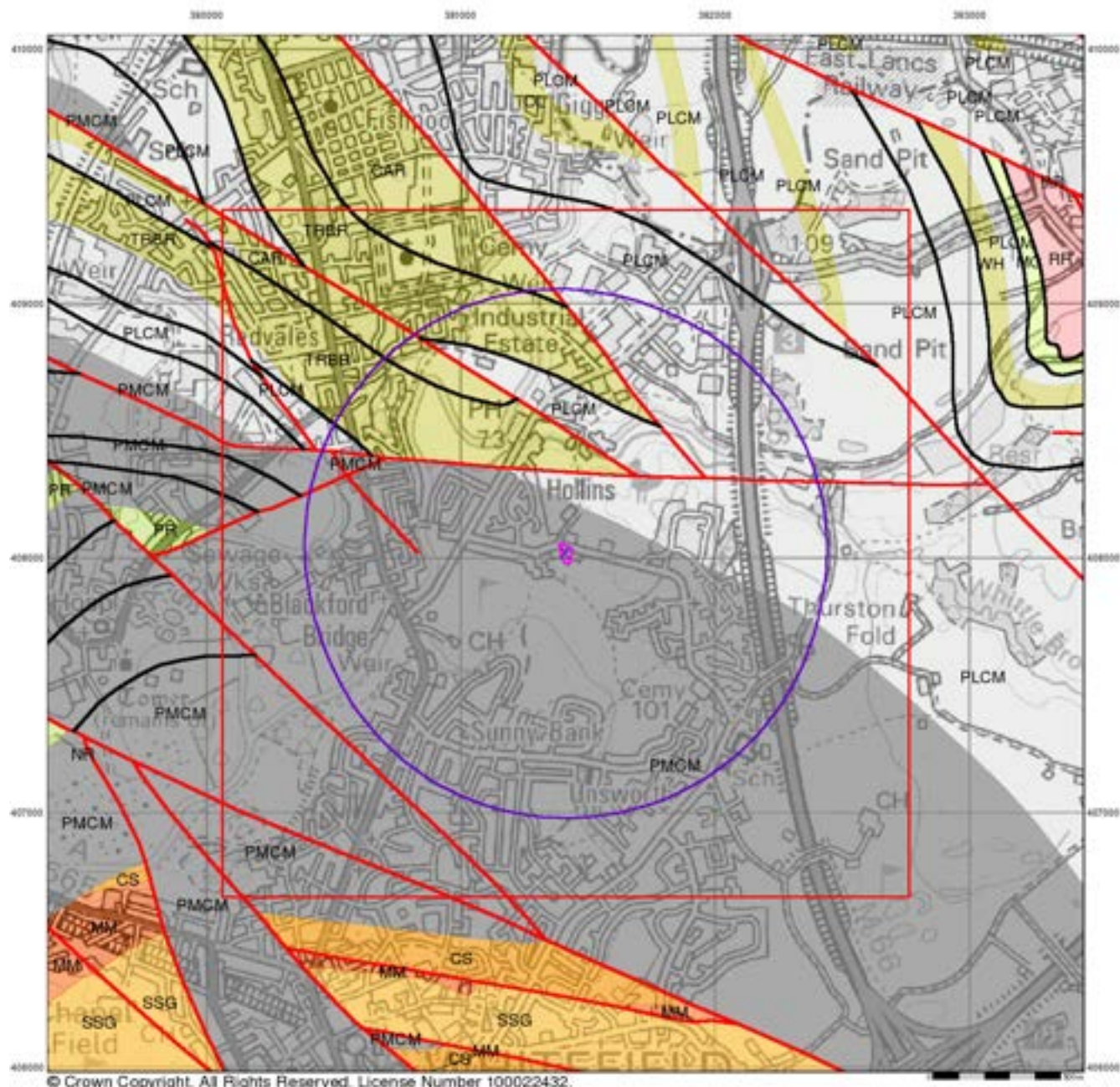
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 Search Buffer (m): 1000

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Bedrock and Faults

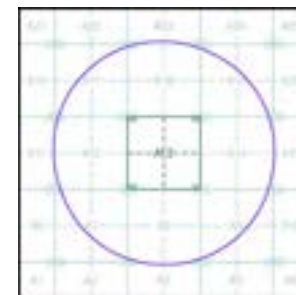
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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:

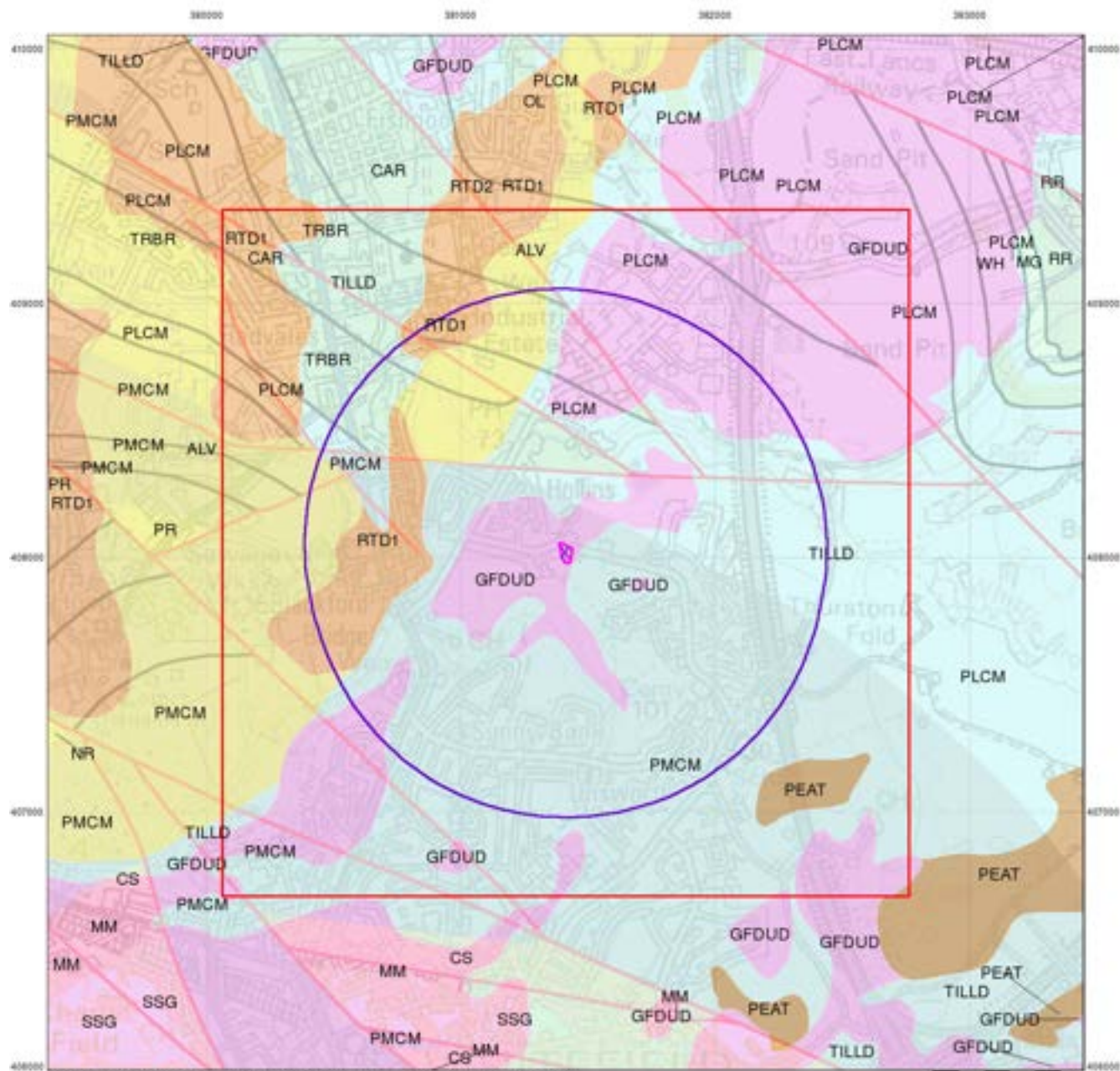
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Site Area (Ha): 0.26
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Hollins Farm, 247 Hollins Lane, Bury, Lancashire, BL9 8AS



Tel: 0844 844 9952
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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.

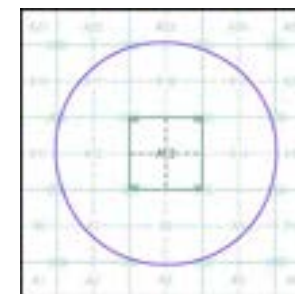
Additional Information

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: 44728217_1_1
Customer Reference: LKC 12 1111
National Grid Reference: 381410, 408020
Slice: A
Site Area (Ha): 0.26
Search Buffer (m): 1000

Site Details:

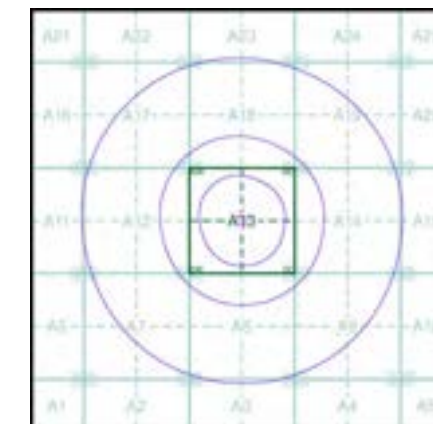
Hollins Farm, 247 Hollins Lane, Bury, Lancashire, BL9 8AS



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Site Sensitivity Map - Slice A

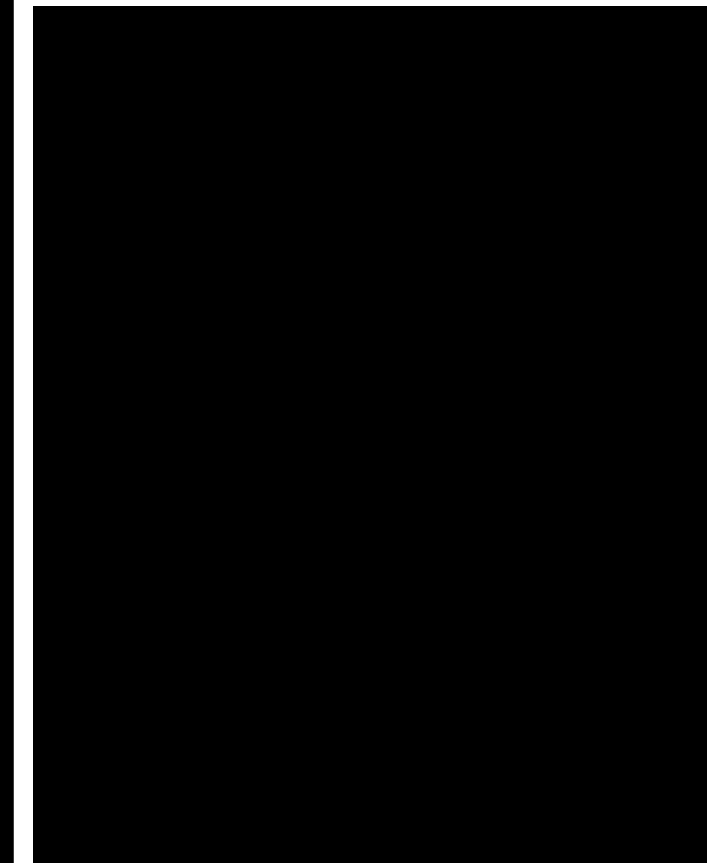


Order Details

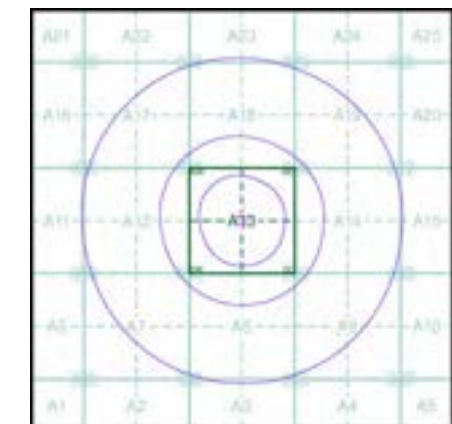
Order Number: 44728217_1_1
Customer Ref: LKC 12 1111
National Grid Reference: 381410, 408020
Slice: A
Site Area (Ha): 0.26
Search Buffer (m): 1000

Site Details

Hollins Farm, 247 Hollins Lane, Bury, Lancashire, BL9 8AS



Flood Map - Slice A

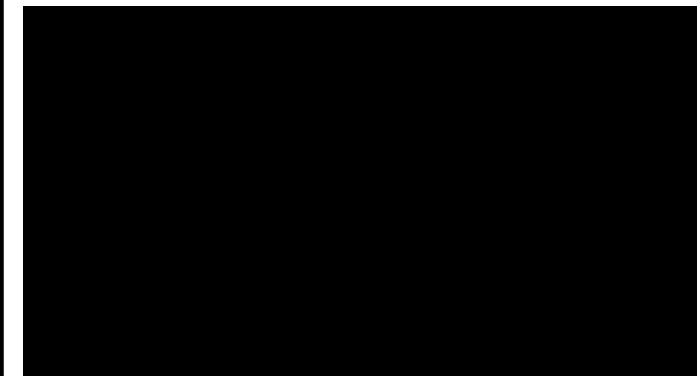


Order Details

Order Number: 44728217_1_1
Customer Ref: LKC 12 1111
National Grid Reference: 381410, 408020
Slice: A
Site Area (Ha): 0.26
Search Buffer (m): 1000

Site Details

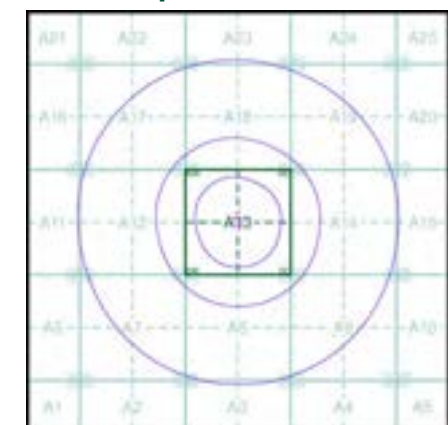
Hollins Farm, 247 Hollins Lane, Bury, Lancashire, BL9 8AS



For Borehole information please refer to the Borehole datasheet 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: 44728217_1_1
Customer Ref: LKC 12 1111
National Grid Reference: 381410, 408020
Slice: A
Site Area (Ha): 0.26
Search Buffer (m): 1000

Site Details

Hollins Farm, 247 Hollins Lane, Bury, Lancashire, BL9 8AS

APPENDIX C

COAL AUTHORITY REPORT

Issued by:

The Coal Authority, Property Search Services, 200 Lichfield Lane, Berry Hill, Mansfield, Nottinghamshire, NG18 4RG

Website: www.groundstability.com Phone: 0845 762 6848 DX 716176 MANSFIELD 5

**LANDMARK INFORMATION GROUP
LIMITED
SOWTON INDUSTRIAL ESTATE
ABBEY COURT
UNIT 5/7 EAGLE WAY
EXETER
DEVON
EX2 7HY**

Our reference: **51000250145004**
Your reference: **44728217**
Date of your enquiry: **18 March 2013**
Date we received your enquiry: **18 March 2013**
Date of issue: **18 March 2013**

This report is for the property described in the address below and the attached plan.

Non-Residential Coal Authority Mining Report

SITE AT HOLLINS FARM, 247 HOLLINS LANE, BURY, LANCASHIRE,

This report is based on and limited to the records held by, the Coal Authority, and the Cheshire Brine Subsidence Compensation Board's records, at the time we answer the search.

Coal mining	See comments below
Brine Compensation District	No

Information from the Coal Authority

Underground coal mining

Past

According to the records in our possession, the property is not within the zone of likely physical influence on the surface from past underground workings.

Present

The property is not in the likely zone of influence of any present underground coal workings.

Future

The property is not in an area for which the Coal Authority is determining whether to grant a licence to remove coal using underground methods.

The property is not in an area for which a licence has been granted to remove or otherwise work coal using underground methods.

The property is not in an area that is likely to be affected at the surface from any planned future workings.

However, reserves of coal exist in the local area which could be worked at some time in the future.

No notice of the risk of the land being affected by subsidence has been given under section 46 of the Coal Mining Subsidence Act 1991.

Mine entries

There are no known coal mine entries within, or within 20 metres of, the boundary of the property.

Coal mining geology

The Authority is not aware of any evidence of damage arising due to geological faults or other lines of weakness that have been affected by coal mining.

Opencast coal mining

Past

The property is not within the boundary of an opencast site from which coal has been removed by opencast methods.

Present

The property does not lie within 200 metres of the boundary of an opencast site from which coal is being removed by opencast methods.

Future

The property is not within 800 metres of the boundary of an opencast site for which the Coal Authority is determining whether to grant a licence to remove coal by opencast methods.

The property is not within 800 metres of the boundary of an opencast site for which a licence to remove coal by opencast methods has been granted.

Coal mining subsidence

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

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

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

Mine gas

There is no record of a mine gas emission requiring action by the Coal Authority within the boundary of the property.

Hazards related to coal mining

The property has not been subject to remedial works, by or on behalf of the Authority, under its Emergency Surface Hazard Call Out procedures.

Withdrawal of support

The property is not in an area for which a notice of entitlement to withdraw support has been published.

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

Working facilities orders

The property is not in an area for which an Order has been made under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification or amendment thereof.

Payments to owners of former copyhold land

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

Information from the Cheshire Brine Subsidence Compensation Board

The property lies outside the Cheshire Brine Compensation District.

Additional Remarks

This report is prepared in accordance with the Law Society's Guidance Notes 2006, the User Guide 2006 and the Coal Authority and Cheshire Brine Board's Terms and Conditions 2006. The Coal Authority owns the copyright in this report. The information we have used to write this report is protected by our database right. All rights are reserved and unauthorised use is prohibited. If we provide a report for you, this does not mean that copyright and any other rights will pass to you. However, you can use the report for your own purposes.

Location map



Approximate position of property



Enquiry boundary

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Key

Approximate position of enquiry boundary shown



APPENDIX D

SITE RECONNAISSANCE PHOTOGRAPHS

**Photograph 1 (facing W):**

Site access via a cobbled track off Hollins Lane.

**Photograph 2 (facing W):**

Original farm building to the north west of the site.

**Photograph 3 (facing NW):**

Original farm buildings to the north west of the site.



Photograph 4 (facing N):
Original farm buildings to the north of the site.



Photograph 5 (facing NW):
Original farm building to the north west of the site. Bricks in the foreground are from a section of the building that blew down in the wind recently.



Photograph 6 (facing SE):
Remains of the section of the building that blew down in the wind.



Photograph 7 (facing SE):
Garden of the existing property to the east of the site.



Photograph 8:
Drain for the building to the north west of the site.

Bury Business Centre
Kay Street, Bury BL9 6BU

Tel: 0161 763 7200
Fax: 0161 763 7318

The Corn Exchange, Fenwick Street
Liverpool L2 7QL

Tel: 0151 235 8716

Unit 121, Wright Business Centre
1 Longmay Road, Glasgow G33 4EL

Tel: 0141 773 6269