

Bradley Fold Road, Ainsworth, Bury

Phase 1 Preliminary Risk Assessment

Job Number: LKC 23 1699

Date: December 2023

Client: Primary Property Building Services Ltd



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DOCUMENT QUALITY ASSURANCE

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Report Title	Phase 1 Preliminary Risk Assessment
Job Number	LKC 23 1699
Client	Primary Property Building Services Ltd

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Written By	Alex Evans Rachel Wylie		
Approved By	Kris Rodway		

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1. Introduction

LK Consult Ltd (LKC) has been commissioned to carry out a Phase 1 Preliminary Risk Assessment (PRA) for Bradley Road Fold, Ainsworth, Bury.

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

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

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

A summary of the site details is presented in Table 1-1. Figure 1 indicates the site location and boundary plan. Figure 2 indicates the proposed development.

Location	Land between 18 and 24 Bradley Fold Road, Ainsworth, Bury. Centred at National Grid Reference 376400E 410140N.
Area	200m ² .
Topography	170 metres above ordnance datum (AOD). Site is approximately level.
Current Site Use	Vacant land.
Proposed Development	Residential house including a rear garden area and car parking areas.

Table 1-1: Summary of site details.

2. Historical Review

2.1. Historical Map Review

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

Table 2-1 summarises features on site. Table 2-2 summarises potentially contaminative land uses within approximately 50m and potentially infilled features within approximate 250m.

Site Features	Location on Site	Dates Present		Comments
		From	To	
Undefined Field	Whole Site	1850	1850	Only present on 1850 mapping.
Undefined Building	E	1910	1938	No longer present on 1956 mapping.
Undefined Buildings (Garages)	S	1974	2017	Possible domestic garages. No longer present on 2018 satellite images. replaced by concrete slab present with car parked.

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

Surrounding Area Features	Distance (m)	Direction	Dates Present		Comments
			From	To	
Pond	135	N	1893	1974	No longer present on 1982 mapping.
Pond	155	SW	1893	1938	No longer present on 1956 mapping.
Sandstone Quarry	155	NE	1850	1982	Expands from 1893 mapping to the north. No longer present on 1992 mapping.

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

3. Environmental Setting

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

Categories ^(data sources)		Details
Geology ^{1, 2, 3}	Artificial Ground	No BGS recorded artificial ground.
	Superficial Deposits	Devensian Till (diamicton).
	Bedrock	Old Lawrence Rock (sandstone).
	BGS Logs (100m)	None.
Hydro-geology ¹	Aquifer Designation	Superficial Bedrock
		Secondary Undifferentiated Aquifer.
		Secondary A Aquifer.
	Source Protection Zone (SPZ)	Site not within an SPZ.
Hydrology ¹	Groundwater Abstractions (100m)	None.
	Surface Watercourses (100m)	None.
	Flooding Risk ^{1, 4}	Flood Zone 1.
	Surface Water Abstractions (100m)	None.
	Discharge Consents (onsite)	None.
Minerals Mining ^{1, 5} &	Pollution Incidents (onsite)	None.
	Coal Mining	Within a Coal Reporting Area. Not within a Development High Risk Area.
	Surface Mineral Extractions (250m)	181m NE – Ainsworth Quarry, Commodity: Sandstone, Status: Ceased. 208m N – Ainsworth Quarry, Commodity: Sandstone, Status: Ceased. 219m NE – Ainsworth Quarry, Commodity: Sandstone, Status: Ceased.
	Cheshire Brine Compensation District	Not within Compensation District. Not within Consultation Area.
	Non-Coal Mining Area	No Hazard.
Ground Stability ¹	Collapsible Ground	Very low hazard.
	Compressible Ground	No hazard.
	Ground Dissolution	No hazard.
	Landslide	Very low hazard.
	Running Sand	Very low hazard.
	Shrinking / Swelling Clay	Very low hazard.
Landfill Sites (250m) ¹	Known / Registered	145m NE – ‘Delph Lodge’. Deposited Waste included Industrial and Household Waste. Operating date is not available.
	Potentially Infilled Land (non-water and water), based on Envirocheck Report	5no. features: 149m NE, 143m N, 184m NW, 161m W, 237m SW.
	Potentially Infilled Sites, based on LKC historical review	3no. features: See Table 2-1 and Table 2-2.

Table 3-1: Summary of the environmental setting.

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

Data Sources:

1 Envirocheck Report (Appendix A & B).

2 BGS Sheet 76 1:50,000

3 <http://mapapps2.bgs.ac.uk/geoindex/home.html>

4 <https://flood-map-for-planning.service.gov.uk/location>

5 The Coal Authority Web Mapping Services (WMS) /

<http://coal.decc.gov.uk/en/coal/cms/publications/data/map/map.aspx>.

Categories ^(data sources)		Details
Radon Potential ¹		<1% of homes above Action Level. No protective measures are necessary in the construction of new dwellings or extensions.
Designated Sites (50m) ¹		Adopted Green Belt onsite.
Contemporary Trade Directory (50m) ¹		None.
Fuel Station Entries (50m) ¹		None.
Unexploded Ordnance Risk (UXO) – Zetica Risk Map	Zetica Risk Map ⁶	Bomb Risk: Low.

Table 3-2(continued): Summary of the environmental setting.

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

Data Sources:

1 Envirocheck Report (Appendix A & B).

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

4. Site Reconnaissance

A site reconnaissance was carried out on the 14th of December 2023. Hand dug trial holes were undertaken in accessible areas to confirm the shallow ground conditions.

Relevant features identified on site are summarised below:

- The site comprises vacant land.
- Ground cover comprises compact gravel with no hardstanding and no vegetation except for weeds.
- The site is relatively flat. Surrounding land noted to be a similar level.
- Access is to the south of site via herras fencing along which is present along the southern site boundary.
- 1no. BT manhole (telecoms) and telephone pole are present on the pavement in the south-east. A small temporary brick service box is present in the north-east on site.
- No evidence of contamination identified. Made ground at the surface of the entire site.
- No evidence of asbestos containing material was identified during the site reconnaissance. Anecdotal evidence suggests that asbestos panels from previous garages on site have been removed.
- Evidence of ground works noted including 2no. holes present adjacent to the terraced houses on the north of site.

The surrounding area comprises residential terraces to the north and south, and Bradley Fold Road to the east. A side street is present to the south.

Hand dug pits were carried out in 3no. locations and are summarised in Table 4-1.

HD101	HD102	HD103
0.00-0.30m Made ground: black silty gravel with frequent ash, brick and occasional sandstone cobbles. 0.30-0.55m Grey silty clay with rare coal. 0.55-0.8m greyish brown clay with rare coal.	0.00-0.50m Made ground: black silty gravel with occasional brick. 0.50-0.70m greyish brown clay with rare coal.	0.00-0.40m Made ground: black silty gravel with frequent brick. 0.40-0.70m Grey organic clay with rare organic matter. 0.70-0.80m greyish brown clay.

Table 4-1: Hand dug pit logs.

Site photographs are provided in Table 4-2.

	
Photograph 1: View of site from E looking W.	Photograph 2: View of side street on the S of site looking W.
	
Photograph 3: View of site from W looking E.	Photograph 4: Temporary brick service box NE of site.
	
Photograph 5: 2no. holes N of site adjacent to residential houses.	Photograph 6: Natural clay from hand dug pit 1.

Table 4-2: Site photographs.

Site features are also shown on Plate 4-1.



Plate 4-1: Plan showing relevant site features.

5. Preliminary Conceptual Model

5.1. Introduction

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

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

5.2. Potential Contaminants

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

Potential Source	Contaminants
On site	
Shallow made ground below some or all of site (e.g. site levelling)	Assuming predominantly reworked natural soils with possible demolition rubble, ash and clinker: asbestos, heavy metals, sulphates, PAHs ⁴ . Ash / clinker and coal noted in the site reconnaissance. Not expected to be a significant source of gas given anticipated depth and nature of made ground.
Demolished buildings	Asbestos containing material (ACM). Limited contamination expected as anecdotal evidence suggest the ACM has been removed.
Garages	Petroleum hydrocarbons and other organic contaminants. Domestic garages with concrete slabs therefore no significant contamination source anticipated.
Cars parked on site	No significant contamination source anticipated as cars parked on concrete slab.
Surrounding Area	
Offsite potentially infilled features within 250m	Given size, distance and age of features, is not considered to be a source of hazardous gas (principally carbon dioxide and methane).
Landfill at historical Sandstone Quarry named as 'Delph Lodge'.	The only potential pathway for gas migration to site from the landfill is via the permeable sandstone bedrock. As this pathway is also present for all the surrounding land, then hazardous gas is unlikely to travel exclusively toward the site. Instead, the gas would likely be diverted by services and infrastructure pathways between the landfill and the site and follow paths of least resistance. Dates are not available for the activity of the landfill. Based on publicly available information. Passive vents and monitoring wells were installed from 1995. Monitoring data is provided in Appendix D. Monitoring data suggests there is no risk from gas due to minimal flow rates. Migration of generated gas to site is therefore not expected.
Underlying Geology	
Radon Affected Area	<1% of homes above Action Level. No protective measures are necessary in the construction of new dwellings or extensions. No further consideration required.
Superficial / Bedrock	Devensian Till over Old Lawrence Rock (sandstone).

	No significant contamination sources identified.
--	--

Table 5-1: Potential contamination sources.

5.3. Potential Receptors

Potential receptors are detailed in Table 5-2.

Receptors	
Human health	Future site users (including residents, visitors, and site workers). Offsite land users.
Controlled waters	Secondary A Aquifer, Secondary Undifferentiated Aquifer. No surface water within influencing distance.
Buildings.	
Potable water pipes.	

Table 5-2: Potential receptors.

5.4. Potential Pathways

Potential pathways are detailed in Table 5-3.

Pathways		
Soil	Human health ⁵ (residential land use: houses with private gardens)	Ingestion of soil. Ingestion of soil-derived indoor dust. Ingestion of contaminated home-grown produce. Ingestion of soil attached to home-grown produce. 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.
Soil	Windblown dust and fibres to adjacent receptors.	
Soil	Direct contact with receptors (services).	
Surface water	Surface run-off over impermeable surface.	
Groundwater	Infiltration into the ground, through potentially contaminated material (contamination possibly going into solution).	
Groundwater and gas	Migration through potentially permeable strata and preferential pathways. Superficial (Till) likely to be low permeability. Bedrock (sandstone) likely to be relatively permeable. No preferential pathways are anticipated.	
Gas	Migration into buildings (e.g., via services) and accumulation of gases in confined spaces (potentially causing explosion if methane is present).	

Table 5-3: Potential pathways.

5.5. Preliminary Contamination Conceptual Model

The Preliminary Contamination Conceptual Model is illustrated in Table 5-4.

Generic potential pollutant linkages are described along with an assessment of the risk based upon guidance on probabilities and consequences outlined in CIRIA C552⁶.

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

The probability is based on the site history, site reconnaissance, environmental setting, pathways, and receptors.

Reasonable worst-case consequence has been assumed at this stage.

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

Where the risk falls into the moderate/low risk, LKC will undertake an assessment to establish what further work will be required.

Where LKC identifies a moderate or higher risk, intrusive investigation work or precautionary remediation is recommended.

Recommendations are discussed further in Section 7.

Due to the minor consequence associated with the phytotoxic effect to flora (i.e., loss of plants in a landscaping scheme), the overall risk for the majority of sites will be very low to low. Where soils contain significant concentrations of heavy metals, in general there will other pollutant linkages (i.e., the risk to human health) that will trigger the requirement for remediation (e.g., a clean environmental cover system). As such the risk to flora associated with phytotoxic contaminants will not be considered further.

The risk to buildings associated with elevated sulphate will be considered as part of the geotechnical assessment and will not be included in the contamination risk assessment.

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.

PL	Contaminants of Concern (source)	Pathway	Receptor	Probability	Consequence	Risk
1	Asbestos, heavy metals, PAHs, Petroleum hydrocarbons (shallow made ground below).	Dermal contact. Inhalation of soil, fibres, and dust. Ingestion of soils, dust, home-grown produce, soil attached to home-grown produce. Windblown dust.	Future site users.	Low Likelihood	Medium	Moderate / Low
2	Petroleum hydrocarbons (garages and cars parked)	Inhalation of vapours. Migration via permeable strata and preferential pathways.	Future site users.	Unlikely	Medium	Low
3	Hazardous / Ground gas: methane, carbon dioxide (landfill in surrounding area)	Migration via permeable strata and preferential pathways. Inhalation of gas. Explosion in confined spaces.	Future site users. Buildings. Offsite receptors.	Unlikely	Severe	Moderate / Low
4	Heavy metals, PAHs, Petroleum hydrocarbons (shallow made ground below).	Migration via permeable strata and preferential pathways. Perched waters migration.	Groundwater	Unlikely	Medium	Low
5	Heavy metals, PAHs (shallow made ground below).	Permeation of pipes. Ingestion of tainted water supply.	Future site users. Water pipes.	Unlikely	Medium	Low

Table 5-4: Preliminary Contamination Conceptual Model.

Notes: PL = Pollutant Linkage. Contaminant of Concern (CoC) - See Table 5-1 for contamination sources. See Section 7 for recommendations.

6. Preliminary Geotechnical Risk Assessment

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

Coal Mining	Site is not within a Development High Risk Area. No further assessment required.
Slope Stability	Site is relatively flat. No slope stability risk anticipated.
Envirocheck Ground Stability Hazards	No to low hazard identified. No further action required.
Made Ground	Unknown depth and constituent of made ground across the site. Initial information indicates relatively shallow made ground.
Superficial	Unknown strength of soils for foundation design. Clay anticipated below the site. Strata may be variable giving differential settlement.
Bedrock	Unknown depth of bedrock. Strength and extent of weathering unknown.
Groundwater	Unknown depth and variability of groundwater. Shallow / fluctuating groundwater can affect the strength of the soil, particularly in granular ground. Shallow groundwater can also affect construction works.
Plasticity	Clay recorded on site.
Sulphate	Unknown sulphate content of the made ground and natural. Ash noted in the made ground which may give rise to elevated sulphate.

Table 6-1: Summary of geotechnical constraints.

7. Summary Conclusions and Recommendations

7.1. Summary Conclusions

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

Current Site Use & Pertinent Features	Vacant land.
Proposed Development	Residential house including a rear garden area and car parking areas.
Main Historical Features	Onsite: Undefined field, Undefined building, Undefined Buildings (Garages). Surrounding Area: Ponds, Cutting, Sandstone quarry.
Geology / Hydrogeology	Artificial: No BGS recorded artificial. Superficial: Devensian Till (diamicton), Secondary Undifferentiated Aquifer. Bedrock: Old Lawrence Rock (sandstone). Secondary A Aquifer.
Landfills / Infilled ground	No recorded landfills. Potentially infilled ground identified.

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

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

Pollutant Linkage	Contaminants	Risk
PL1: Contaminants posing a risk to receptors via dermal contact, ingestion and inhalation (of soil, dust, fibres and home-grown produce).	Heavy metals, PAHs (shallow made ground below).	Moderate / Low
PL2: Volatile contaminants posing a risk to receptors via the inhalation of vapours.	Petroleum hydrocarbons (cars parked on site)	Low
PL3: Gas posing a risk to buildings and receptors via the migration of gas into building causing explosion and asphyxiation.	Hazardous Gas / Ground Gas	Moderate / Low
PL4: Mobile contamination posing a risk to controlled waters via the migration through permeable strata.	Heavy metals, PAHs, Petroleum hydrocarbons (shallow made ground below).	Low
PL5: Organic contaminants posing a risk to receptors.	Heavy metals, PAHs (shallow made ground below).	Low

Table 7-2: Summary risk table.

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

Coal Mining	Site is not within a Development High Risk Area. No further assessment required.
Slope Stability	Site is relatively flat. No slope stability risk anticipated.
Made Ground	Unknown depth and constituent of made ground across the site. Initial information indicates relatively shallow made ground.
Superficial	Unknown strength of soils for foundation design.
Bedrock	Unknown depth of bedrock.
Groundwater	Unknown depth and variability of groundwater.
Plasticity	Clay recorded on site.
Sulphate	Unknown sulphate content of the made ground and natural.

Table 7-3: Summary of geotechnical constraints.

Based upon the available information, LKC conclude there is not a viable contamination and geotechnical risk and therefore no further assessment is recommended.

7.2. Recommendations

Recommendations are provided in Table 7-4.

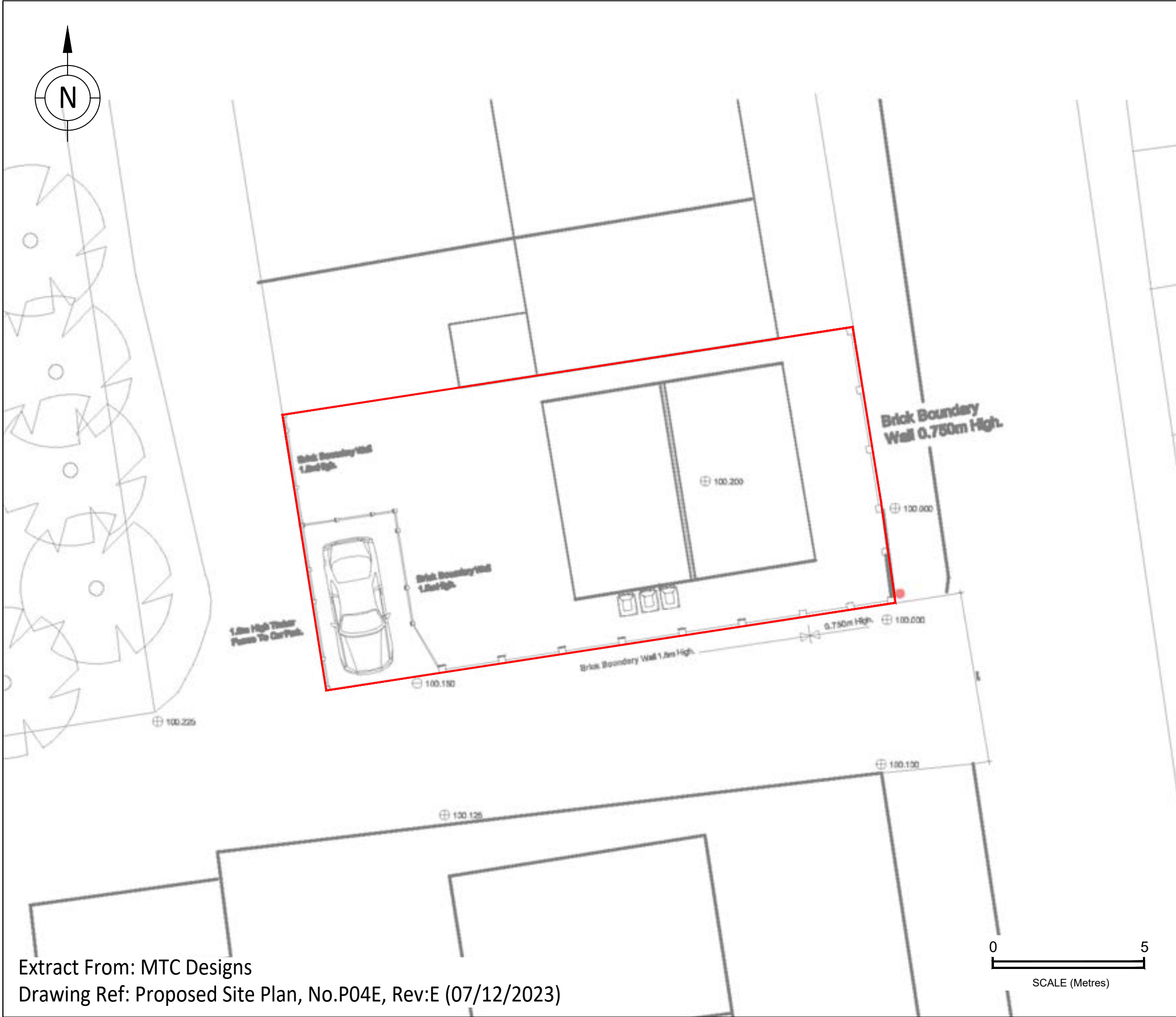
Contamination Status	There is sufficient information on the potential contaminative status of the site to allow conditional approval of a planning application, based on the proposed end use detailed in the PRA.
Further Recommendations	Based on the low/moderate risk for PL1, it is recommended that all made ground is removed from proposed garden areas. Low risks have been identified regarding PL2, PL3, PL4 and PL5 therefore a watching brief is still recommended. Environmental consultant to inspect the ground during groundworks and to be consulted if any unexpected contamination identified. Further assessment may be required.
Type of Work	Made ground should be removed off site. Validation should include measuring depth using a staff and providing photographic evidence and provision of consignment notes.
Local Authority Approval	Conditional planning approval is likely to require an agreed detailed scope of work.
Reporting	Information from the above can be used to carry out a completion report for the site.
Importation of Soils	Any topsoil or subsoil brought on to the site for use in gardens / soft landscaping should be suitably chemically validated prior to its use on site, according to Local Authority guidance.

Table 7-4: Recommendations.

Figures



Client: Primary Property Building Services Ltd				Title: Site Location & Boundary Plan			
Site: Bradley Fold Road, Ainsworth, Bolton				Scale (see scale bar): 1:10,000 & 1:500 @ A4			
Job No.: LKC 23 1699	Drawn By: AE	Checked By: RW	Drawn: Dec 2023	Figure: 1			



KEY

Site Boundary

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



Client:
Primary Property Building Services Ltd

Site:
Bradley Fold Road, Ainsworth, Bolton

Title:
Proposed Development Plan

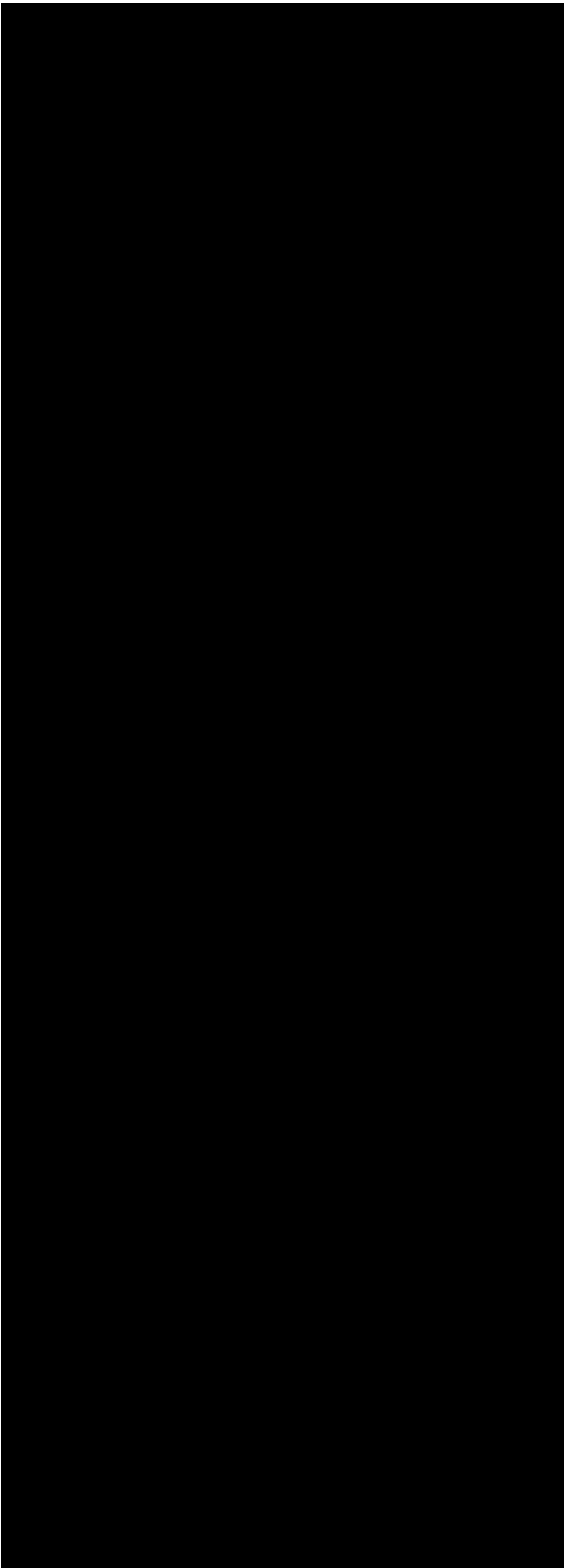
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LKC 23 1699	1:125 @ A3	2	
Drawn By:	Checked By:	Drawn:	
AC	AE	Dec 2023	

Extract From: MTC Designs
Drawing Ref: Proposed Site Plan, No.P04E, Rev:E (07/12/2023)

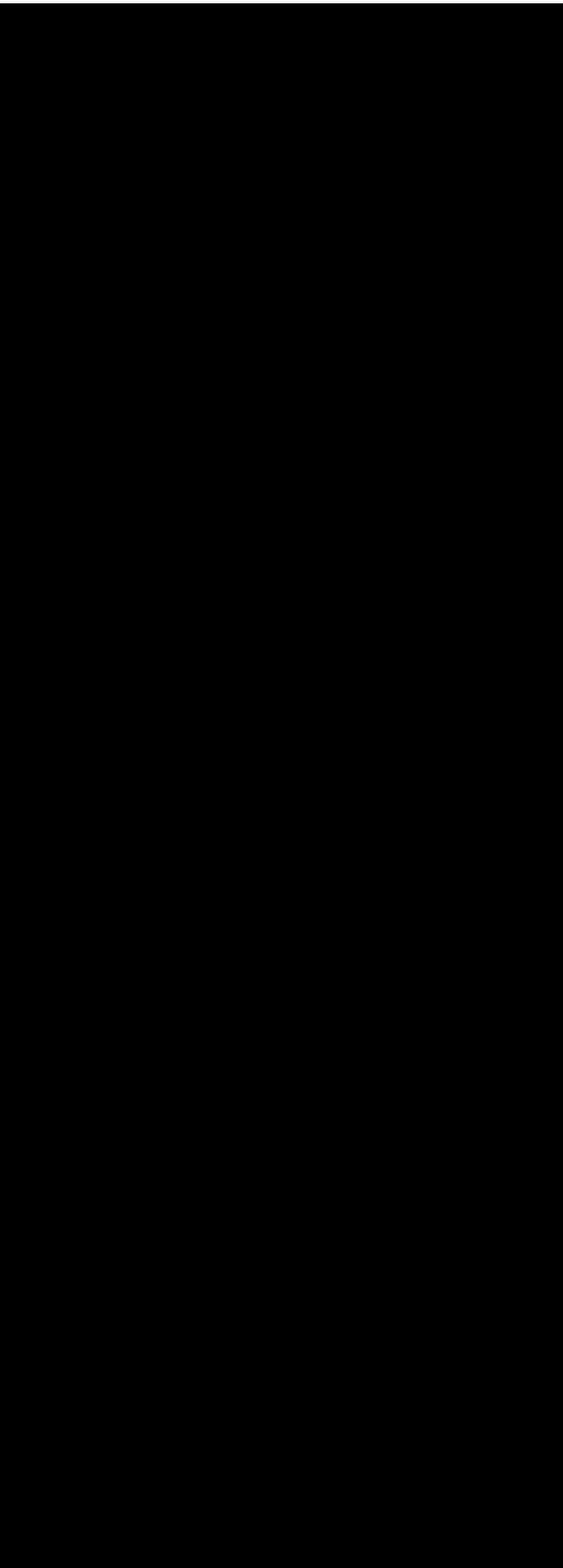
Appendix A – Historical Maps

Historical Mapping Legends

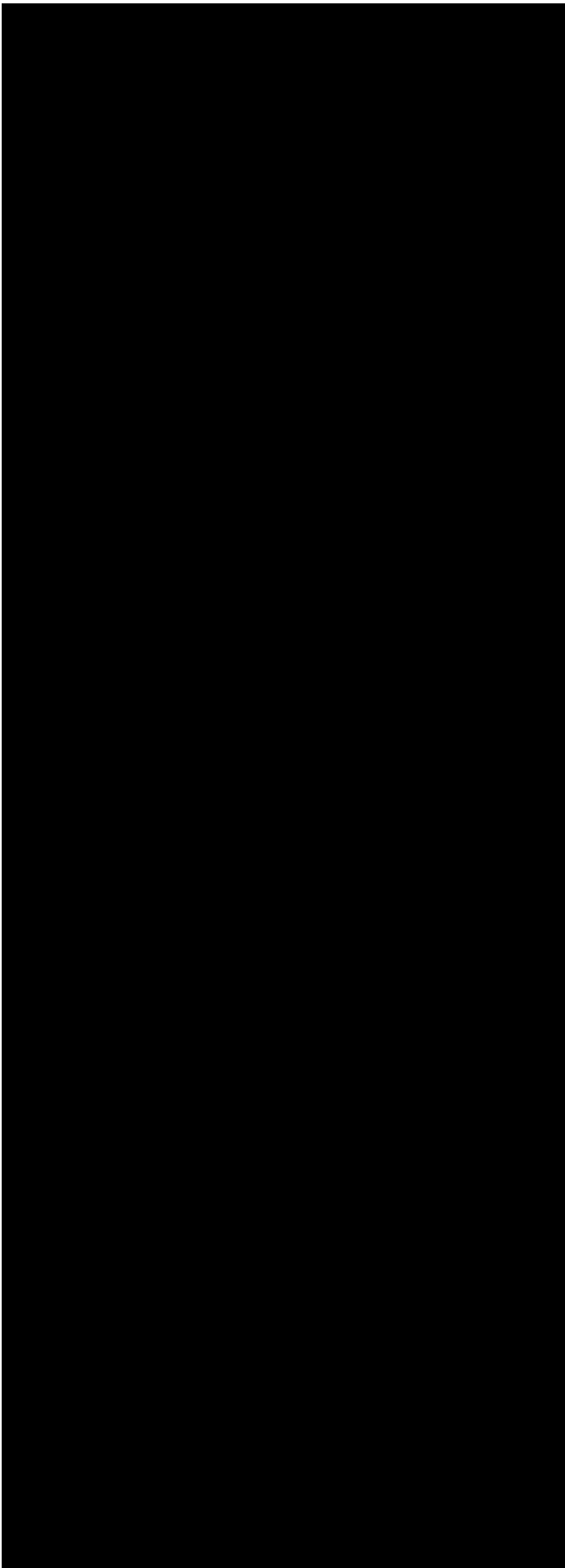
Ordnance Survey County Series and
Ordnance Survey Plan 1:2,500



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



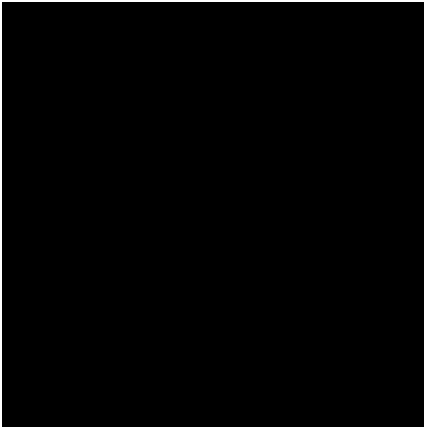
Large-Scale National Grid Data 1:2,500 and
1:1,250



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:2,500	1893	2
Lancashire And Furness	1:2,500	1910	3
Lancashire And Furness	1:2,500	1930	4
Lancashire And Furness	1:2,500	1939	5
Ordnance Survey Plan	1:1,250	1955	6
Additional SIMs	1:1,250	1955 - 1986	7
Ordnance Survey Plan	1:2,500	1956	8
Ordnance Survey Plan	1:1,250	1964 - 1975	9
Ordnance Survey Plan	1:1,250	1974	10
Additional SIMs	1:1,250	1980	11
Large-Scale National Grid Data	1:1,250	1992	12
Large-Scale National Grid Data	1:1,250	1996	13
Historical Aerial Photography	1:2,500	2001	14

Historical Map - Segment A13



Order Details

Order Number: 328418747_1_1
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National Grid Reference: 376400, 410140
Slice: A
Site Area (Ha): 0.02
Search Buffer (m): 100

Site Details

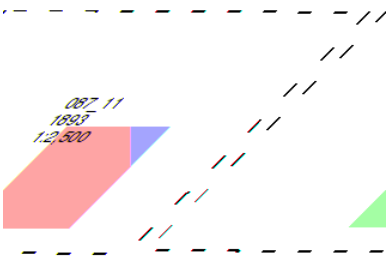
Bradley Fold Road, Ainsworth, Bolton, BL2 5QD



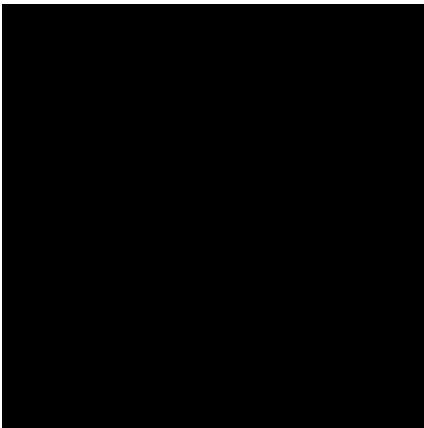
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

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: 328418747_1_1

Customer Ref: LKC 23 1699

National Grid Reference: 376400, 410140

Slice: A

Site Area (Ha): 0.02

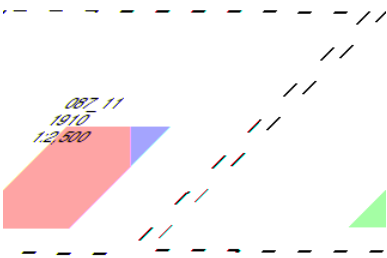
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Site Details

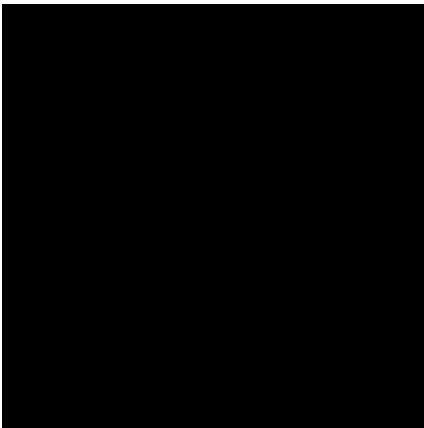
Bradley Fold Road, Ainsworth, Bolton, BL2 5QD

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

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Customer Ref:LKC 23 1699

National Grid Reference:376400, 410140

Slice:A

Site Area (Ha):0.02

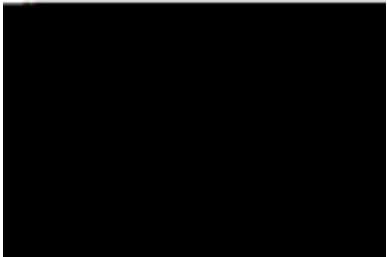
Search Buffer (m):100

Site Details

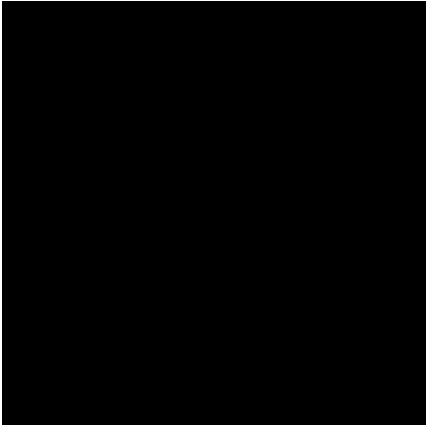
Bradley Fold Road, Ainsworth, Bolton, BL2 5QD

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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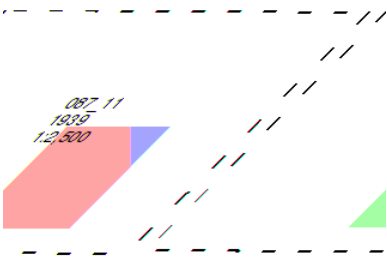
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Site Details

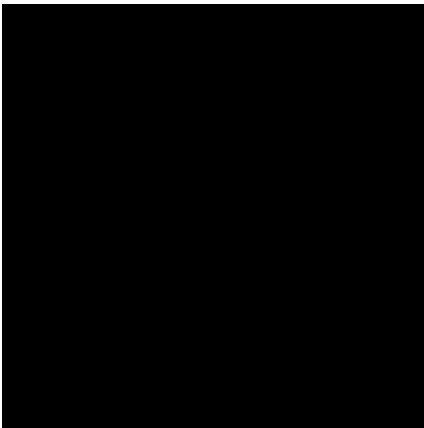
Bradley Fold Road, Ainsworth, Bolton, BL2 5QD

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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National Grid Reference:	376400, 410140
Slice:	A
Site Area (Ha):	0.02
Search Buffer (m):	100

Site Details

Bradley Fold Road, Ainsworth, Bolton, BL2 5QD



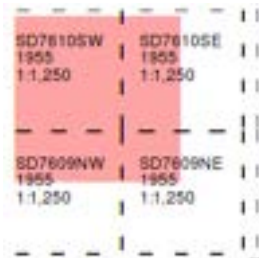
Ordnance Survey Plan

Published 1955

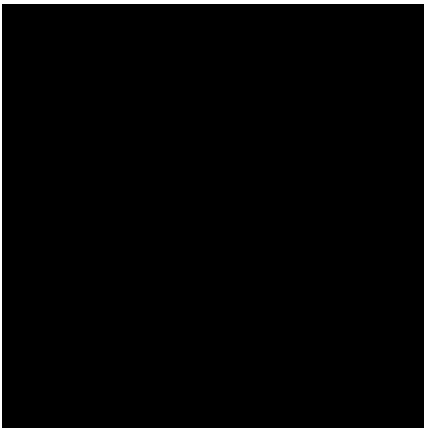
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 328418747_1_1
Customer Ref: LKC 23 1699
National Grid Reference: 376400, 410140
Slice: A
Site Area (Ha): 0.02
Search Buffer (m): 100

Site Details

Bradley Fold Road, Ainsworth, Bolton, BL2 5QD



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



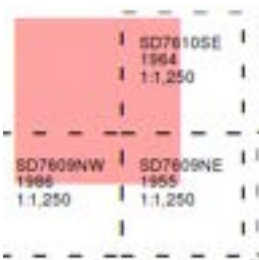
Additional SIMs

Published 1955 - 1986

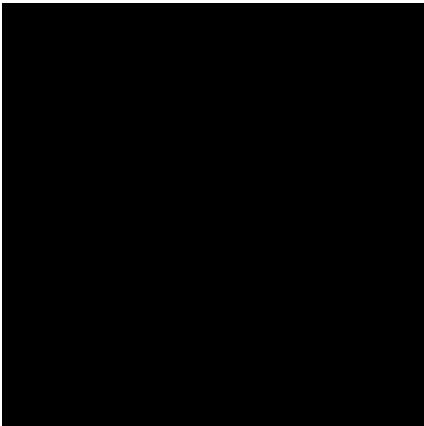
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 328418747_1_1
Customer Ref: LKC 23 1699
National Grid Reference: 376400, 410140
Slice: A
Site Area (Ha): 0.02
Search Buffer (m): 100

Site Details

Bradley Fold Road, Ainsworth, Bolton, BL2 5QD



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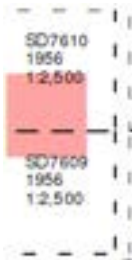
Ordnance Survey Plan

Published 1956

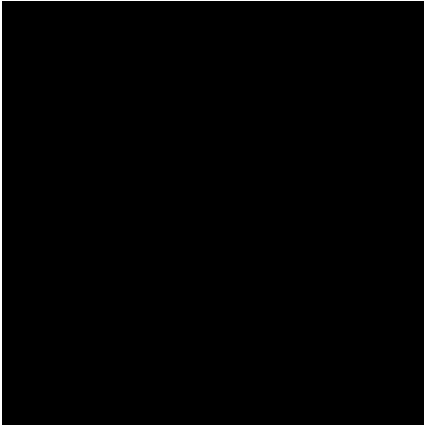
Source map scale - 1:2,500

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: 328418747_1_1
Customer Ref: LKC 23 1699
National Grid Reference: 376400, 410140
Slice: A
Site Area (Ha): 0.02
Search Buffer (m): 100

Site Details

Bradley Fold Road, Ainsworth, Bolton, BL2 5QD



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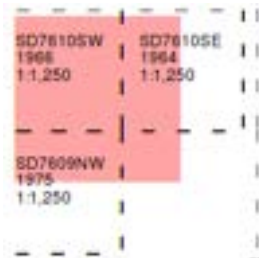
Ordinance Survey Plan

Published 1964 - 1975

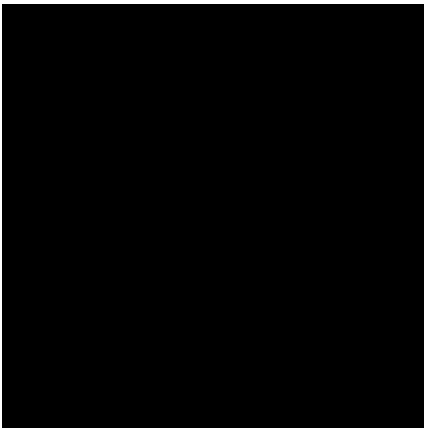
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 328418747_1_1
Customer Ref: LKC 23 1699
National Grid Reference: 376400, 410140
Slice: A
Site Area (Ha): 0.02
Search Buffer (m): 100

Site Details

Bradley Fold Road, Ainsworth, Bolton, BL2 5QD



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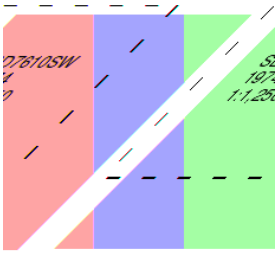
Ordnance Survey Plan

Published 1974

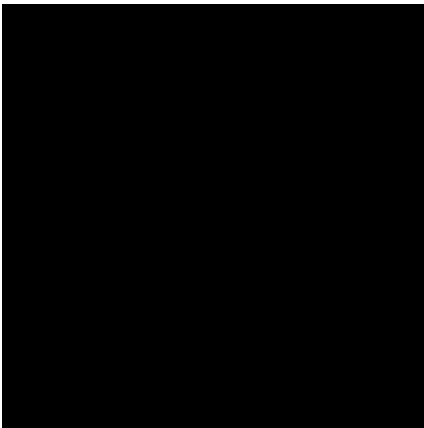
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 328418747_1_1
Customer Ref: LKC 23 1699
National Grid Reference: 376400, 410140
Slice: A
Site Area (Ha): 0.02
Search Buffer (m): 100

Site Details

Bradley Fold Road, Ainsworth, Bolton, BL2 5QD



Tel: 0844 844 9952
Fax: 0844 844 9951
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Additional SIMs

Published 1980

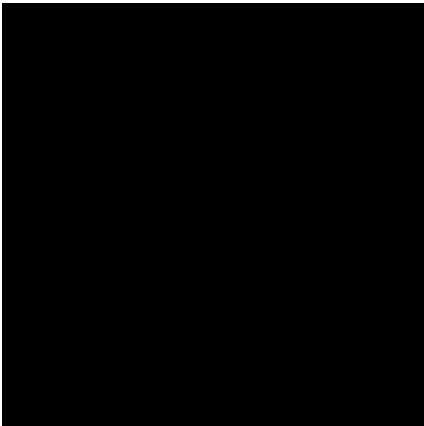
Source map scale - 1:1,250

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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 328418747_1_1
Customer Ref: LKC 23 1699
National Grid Reference: 376400, 410140
Slice: A
Site Area (Ha): 0.02
Search Buffer (m): 100

Site Details

Bradley Fold Road, Ainsworth, Bolton, BL2 5QD



Tel: 0844 844 9952
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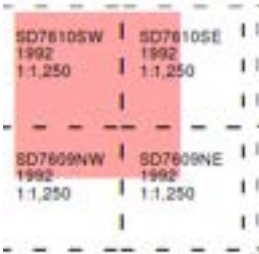
Large-Scale National Grid Data

Published 1992

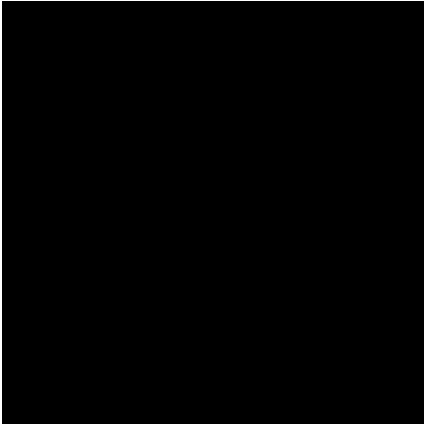
Source map scale - 1:1,250

'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

Order Number: 328418747_1_1
Customer Ref: LKC 23 1699
National Grid Reference: 376400, 410140
Slice: A
Site Area (Ha): 0.02
Search Buffer (m): 100

Site Details

Bradley Fold Road, Ainsworth, Bolton, BL2 5QD



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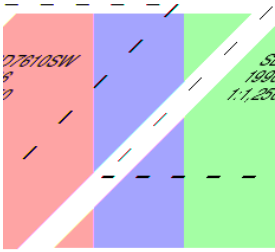
Large-Scale National Grid Data

Published 1996

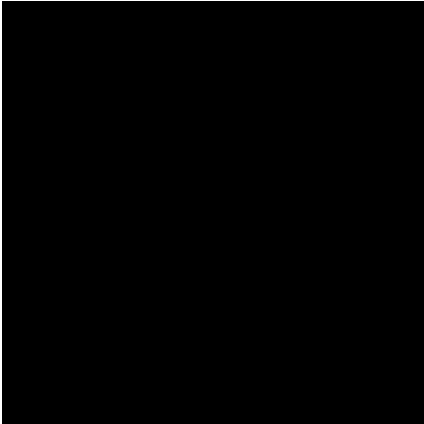
Source map scale - 1:1,250

'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.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 328418747_1_1
Customer Ref: LKC 23 1699
National Grid Reference: 376400, 410140
Slice: A
Site Area (Ha): 0.02
Search Buffer (m): 100

Site Details

Bradley Fold Road, Ainsworth, Bolton, BL2 5QD



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

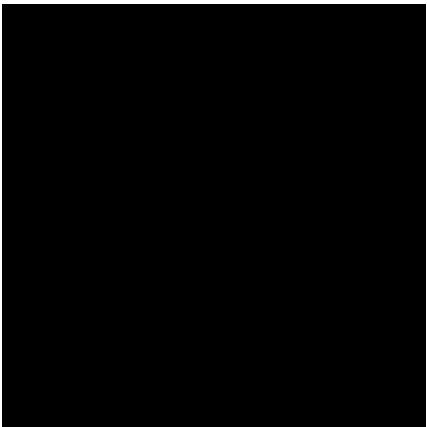


Historical Aerial Photography

Published 2001

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

Historical Aerial Photography - Segment A13



Order Details

Order Number: 328418747_1_1
Customer Ref: LKC 23 1699
National Grid Reference: 376400, 410140
Slice: A
Site Area (Ha): 0.02
Search Buffer (m): 100

Site Details

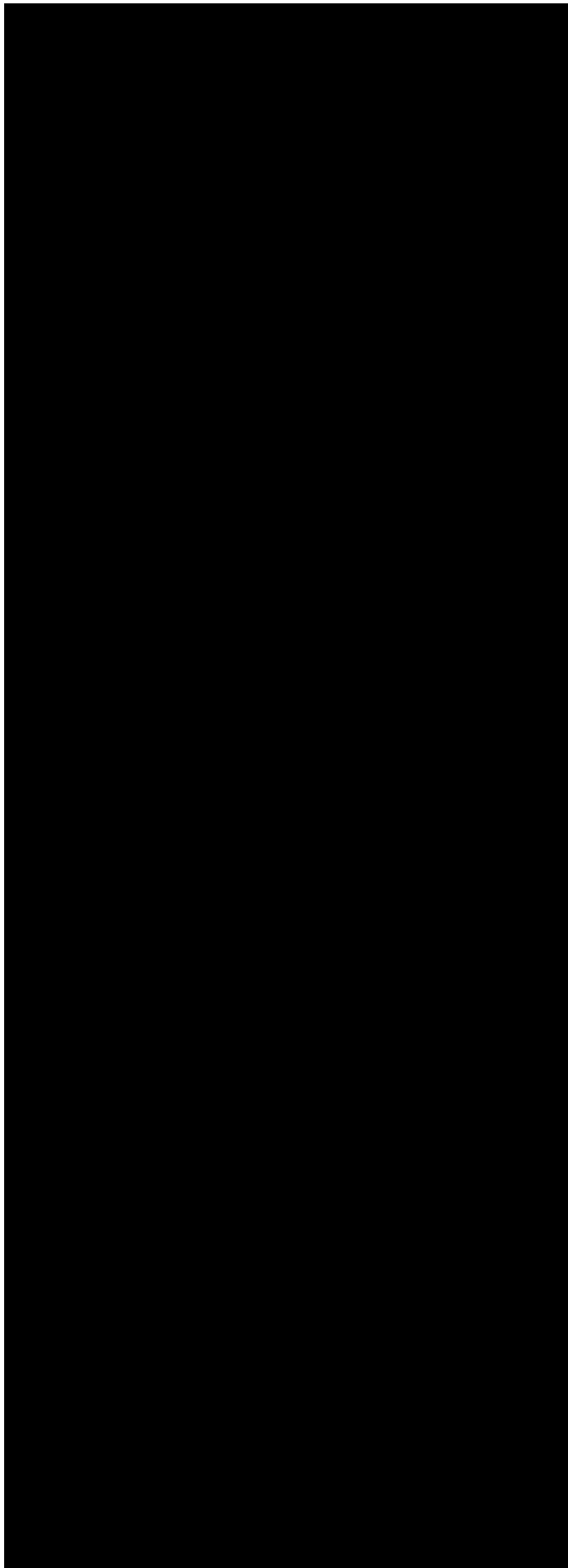
Bradley Fold Road, Ainsworth, Bolton, BL2 5QD



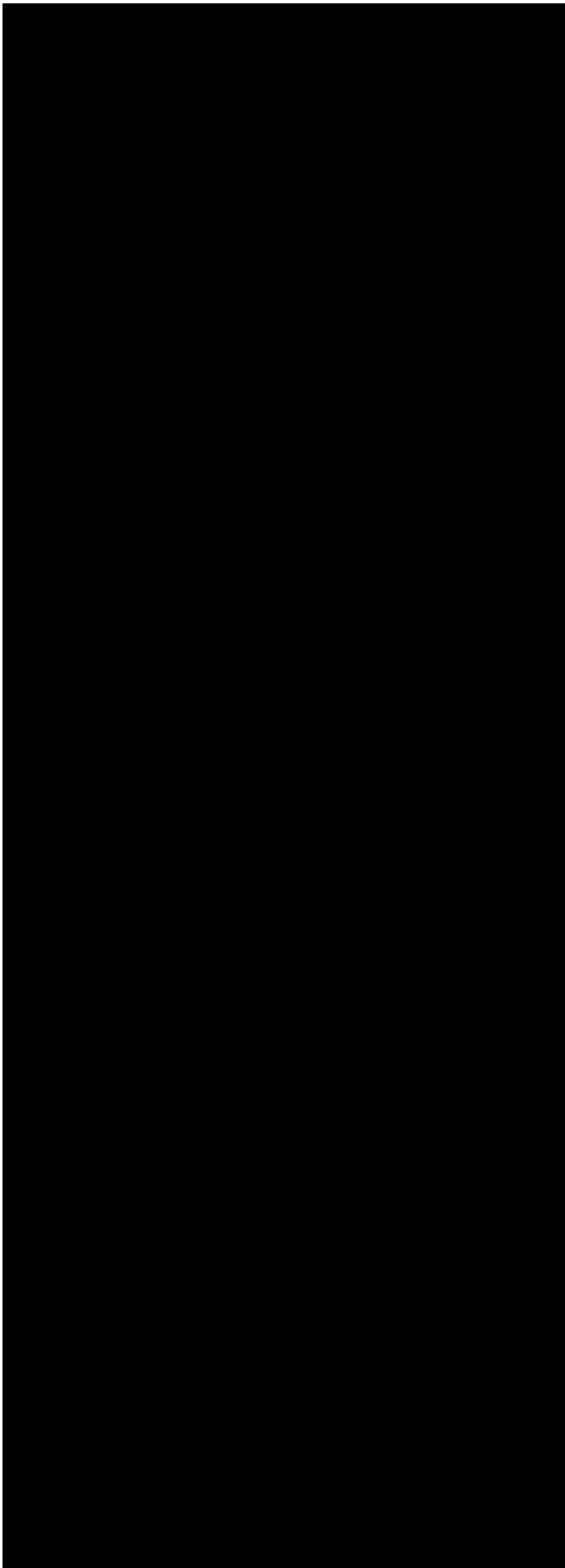
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

Historical Mapping Legends

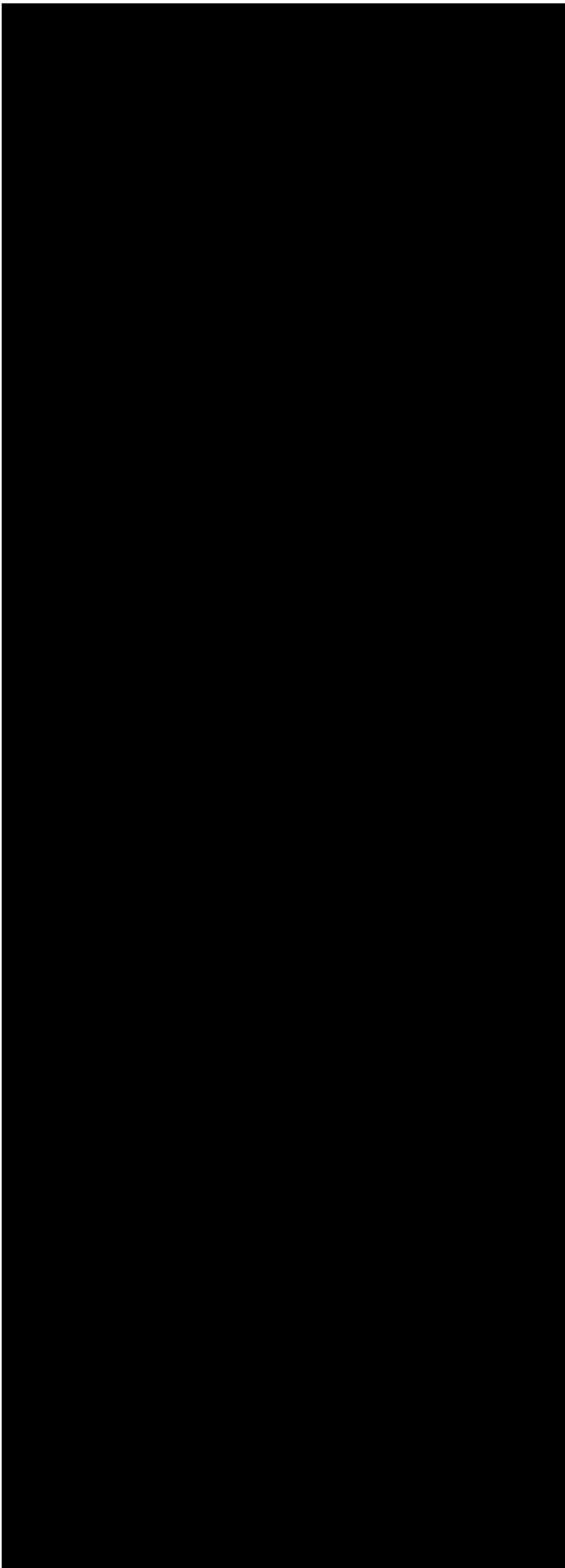
Ordnance Survey County Series 1:10,560



Ordnance Survey Plan 1:10,000



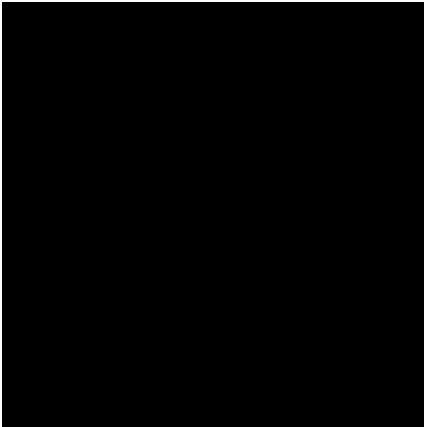
1:10,000 Raster Mapping



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1850	3
Lancashire And Furness	1:10,560	1894	4
Lancashire And Furness	1:10,560	1911	5
Lancashire And Furness	1:10,560	1931	6
Lancashire And Furness	1:10,560	1938	7
Ordnance Survey Plan	1:10,000	1955 - 1956	8
Ordnance Survey Plan	1:10,000	1965 - 1969	9
Ordnance Survey Plan	1:10,000	1974	10
Manchester	1:25,000	1975	11
Ordnance Survey Plan	1:10,000	1980 - 1982	12
Ordnance Survey Plan	1:10,000	1989	13
Ordnance Survey Plan	1:10,000	1992	14
10K Raster Mapping	1:10,000	1999	15
10K Raster Mapping	1:10,000	2006	16
VectorMap Local	1:10,000	2023	17

Historical Map - Slice A



Order Details

Order Number: 328418747_1_1
Customer Ref: LKC 23 1699
National Grid Reference: 376400, 410140
Slice: A
Site Area (Ha): 0.02
Search Buffer (m): 1000

Site Details

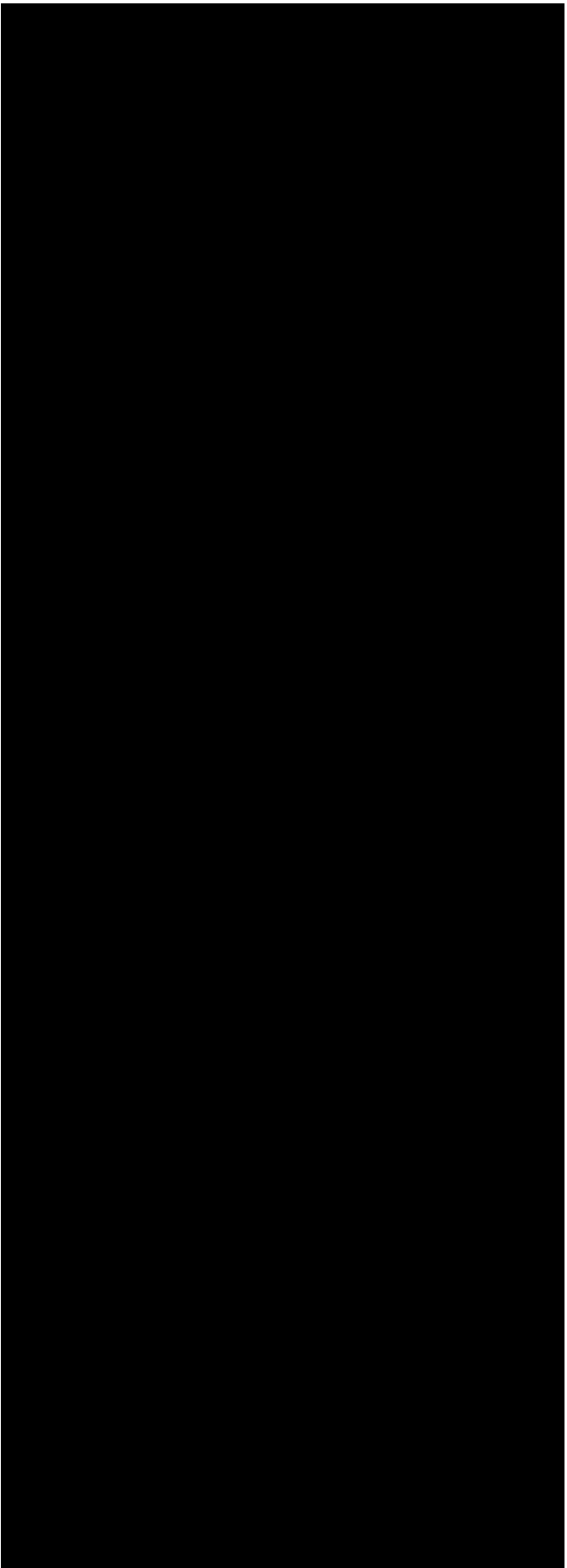
Bradley Fold Road, Ainsworth, Bolton, BL2 5QD



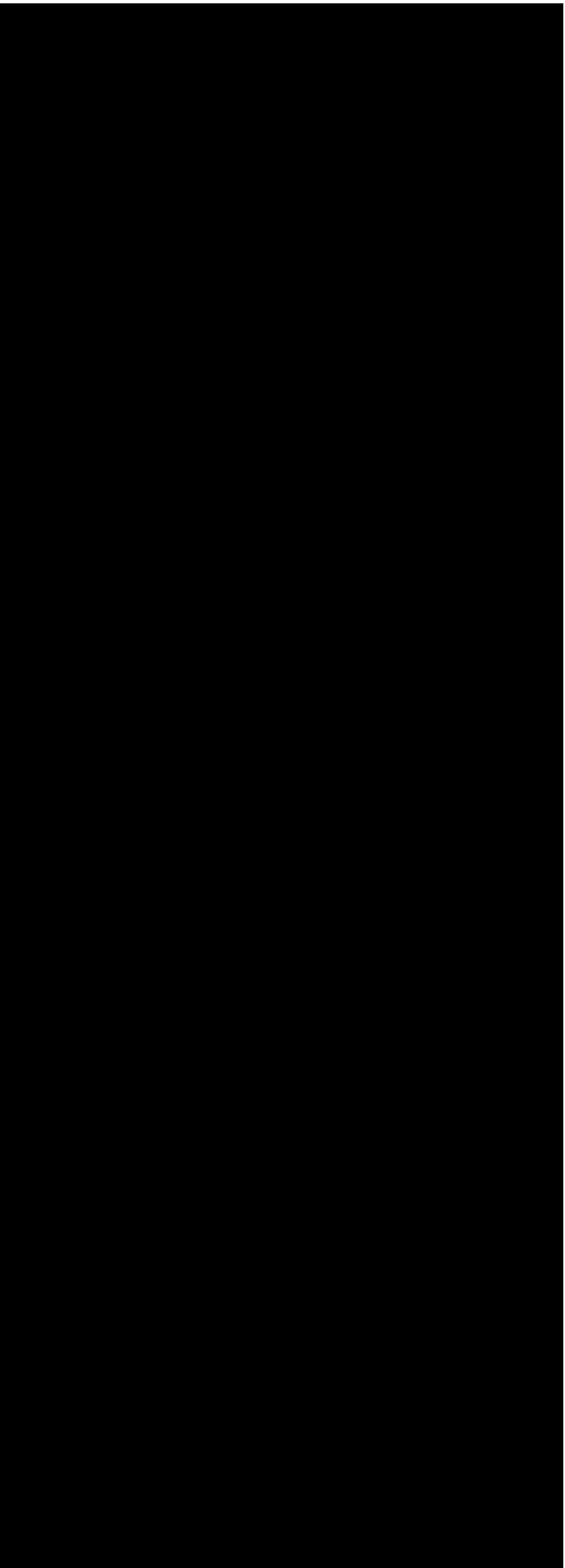
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

Russian Military Mapping Legends

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



1:25,000 mapping



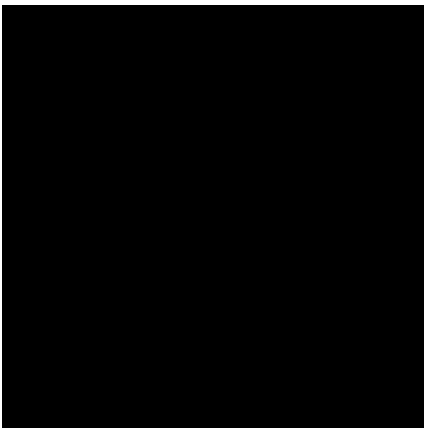
Key to Numbers on Mapping



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1850	3
Lancashire And Furness	1:10,560	1894	4
Lancashire And Furness	1:10,560	1911	5
Lancashire And Furness	1:10,560	1931	6
Lancashire And Furness	1:10,560	1938	7
Ordnance Survey Plan	1:10,000	1955 - 1956	8
Ordnance Survey Plan	1:10,000	1965 - 1969	9
Ordnance Survey Plan	1:10,000	1974	10
Manchester	1:25,000	1975	11
Ordnance Survey Plan	1:10,000	1980 - 1982	12
Ordnance Survey Plan	1:10,000	1989	13
Ordnance Survey Plan	1:10,000	1992	14
10K Raster Mapping	1:10,000	1999	15
10K Raster Mapping	1:10,000	2006	16
VectorMap Local	1:10,000	2023	17

Russian Map - Slice A



Order Details

Order Number: 328418747_1_1
Customer Ref: LKC 23 1699
National Grid Reference: 376400, 410140
Slice: A
Site Area (Ha): 0.02
Search Buffer (m): 1000

Site Details

Bradley Fold Road, Ainsworth, Bolton, BL2 5QD



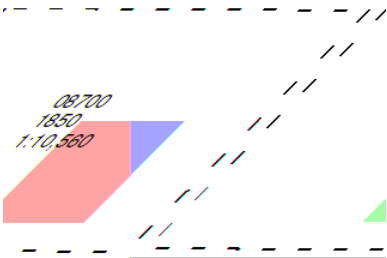
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

Published 1850

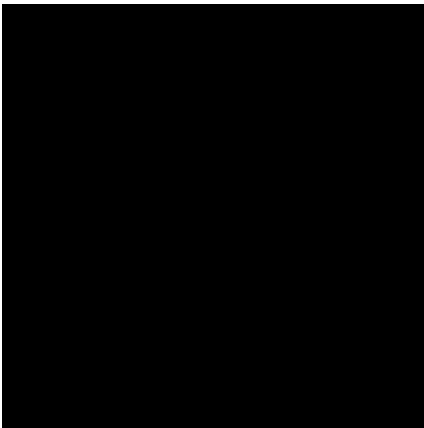
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number:328418747_1_1

Customer Ref:LKC 23 1699

National Grid Reference:376400, 410140

Slice:A

Site Area (Ha):0.02

Search Buffer (m):1000

Site Details

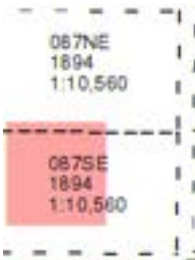
Bradley Fold Road, Ainsworth, Bolton, BL2 5QD

Published 1894

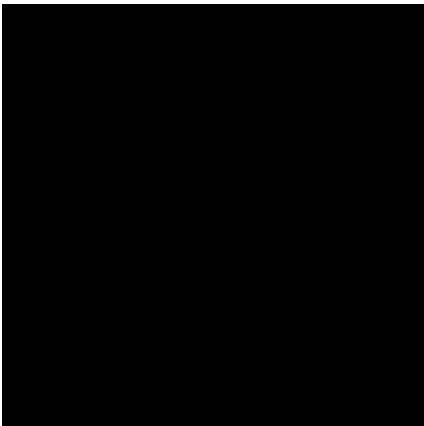
Source map scale - 1:10,560

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.

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Historical Map - Slice A



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National Grid Reference:376400, 410140

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Site Area (Ha):0.02

Search Buffer (m):1000

Site Details

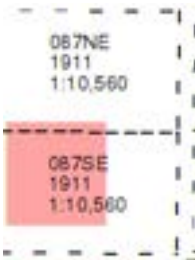
Bradley Fold Road, Ainsworth, Bolton, BL2 5QD

Published 1911

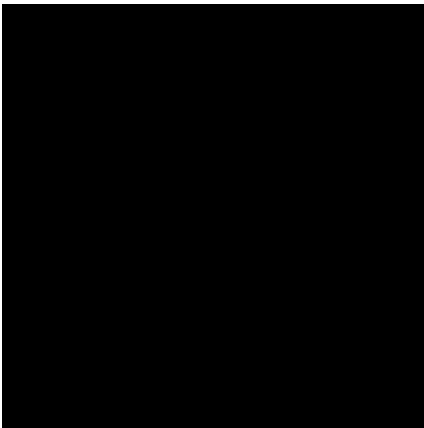
Source map scale - 1:10,560

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:	328418747_1_1
Customer Ref:	LKC 23 1699
National Grid Reference:	376400, 410140
Slice:	A
Site Area (Ha):	0.02
Search Buffer (m):	1000

Site Details

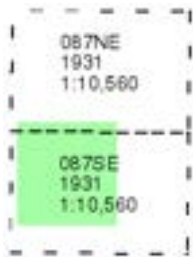
Bradley Fold Road, Ainsworth, Bolton, BL2 5QD

Published 1931

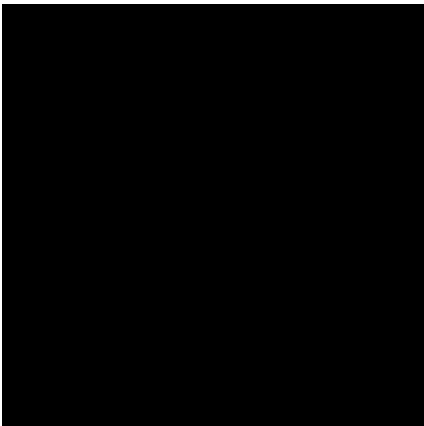
Source map scale - 1:10,560

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:	328418747_1_1
Customer Ref:	LKC 23 1699
National Grid Reference:	376400, 410140
Slice:	A
Site Area (Ha):	0.02
Search Buffer (m):	1000

Site Details

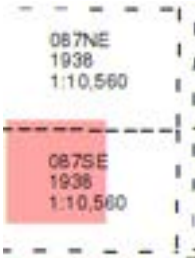
Bradley Fold Road, Ainsworth, Bolton, BL2 5QD

Published 1938

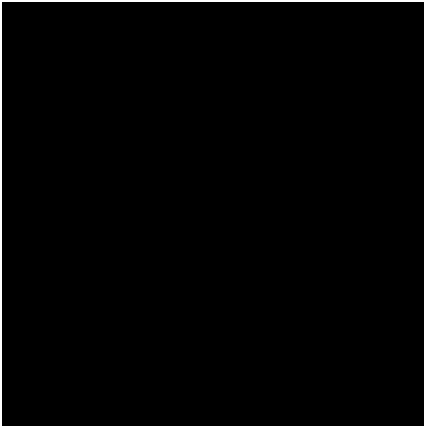
Source map scale - 1:10,560

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: 328418747_1_1
Customer Ref: LKC 23 1699
National Grid Reference: 376400, 410140
Slice: A
Site Area (Ha): 0.02
Search Buffer (m): 1000

Site Details

Bradley Fold Road, Ainsworth, Bolton, BL2 5QD



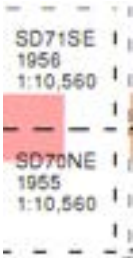
Ordnance Survey Plan

Published 1955 - 1956

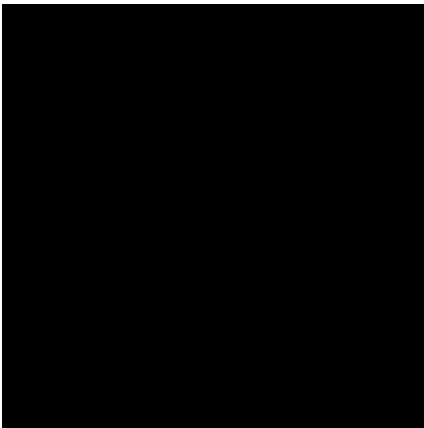
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 328418747_1_1
Customer Ref: LKC 23 1699
National Grid Reference: 376400, 410140
Slice: A
Site Area (Ha): 0.02
Search Buffer (m): 1000

Site Details

Bradley Fold Road, Ainsworth, Bolton, BL2 5QD



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



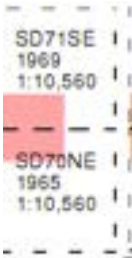
Ordnance Survey Plan

Published 1965 - 1969

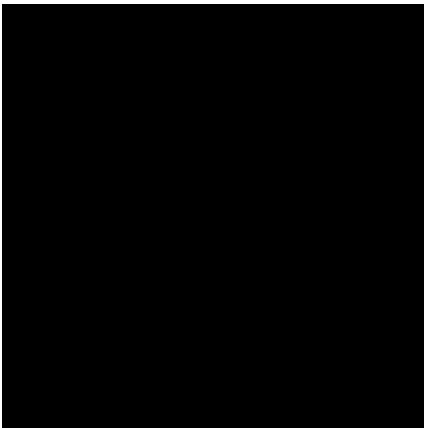
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 328418747_1_1
Customer Ref: LKC 23 1699
National Grid Reference: 376400, 410140
Slice: A
Site Area (Ha): 0.02
Search Buffer (m): 1000

Site Details

Bradley Fold Road, Ainsworth, Bolton, BL2 5QD



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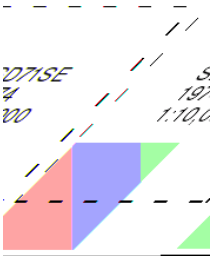
Ordinance Survey Plan

Published 1974

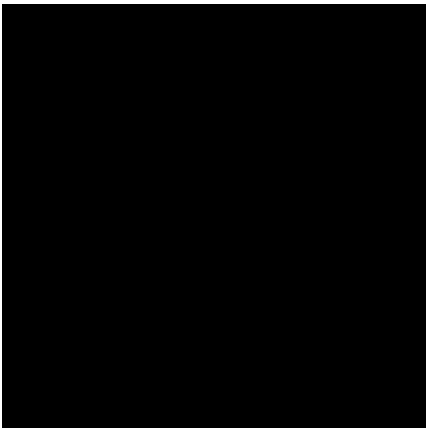
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps.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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 328418747_1_1
Customer Ref: LKC 23 1699
National Grid Reference: 376400, 410140
Slice: A
Site Area (Ha): 0.02
Search Buffer (m): 1000

Site Details

Bradley Fold Road, Ainsworth, Bolton, BL2 5QD



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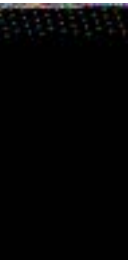
Manchester

Published 1975

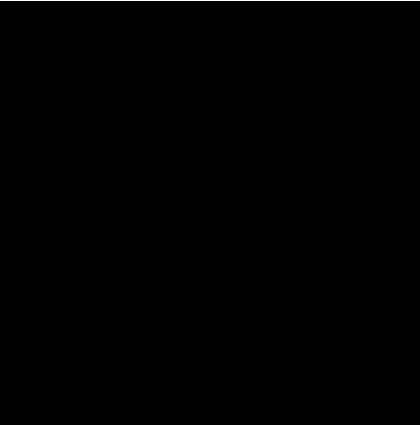
Source map scale - 1:25,000

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: 328418747_1_1
Customer Ref: LKC 23 1699
National Grid Reference: 376400, 410140
Slice: A
Site Area (Ha): 0.02
Search Buffer (m): 1000

Site Details

Bradley Fold Road, Ainsworth, Bolton, BL2 5QD



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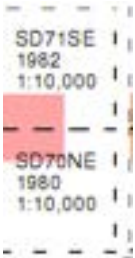
Ordnance Survey Plan

Published 1980 - 1982

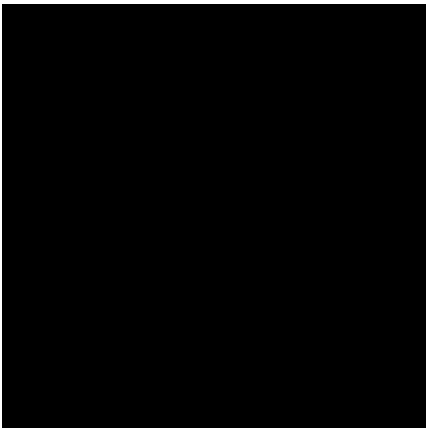
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 328418747_1_1
Customer Ref: LKC 23 1699
National Grid Reference: 376400, 410140
Slice: A
Site Area (Ha): 0.02
Search Buffer (m): 1000

Site Details

Bradley Fold Road, Ainsworth, Bolton, BL2 5QD



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Ordnance Survey Plan

Published 1989

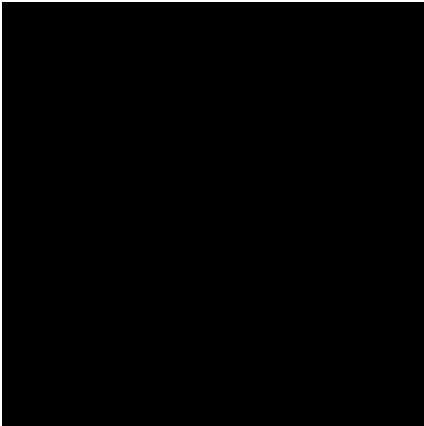
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 328418747_1_1
Customer Ref: LKC 23 1699
National Grid Reference: 376400, 410140
Slice: A
Site Area (Ha): 0.02
Search Buffer (m): 1000

Site Details

Bradley Fold Road, Ainsworth, Bolton, BL2 5QD



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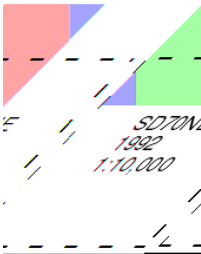
Ordnance Survey Plan

Published 1992

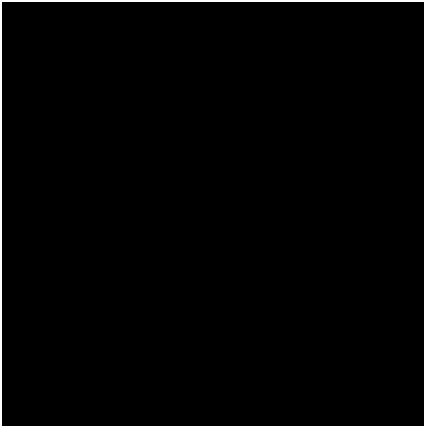
Source map scale - 1:10,000

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 Area (Ha): 0.02
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Site Details

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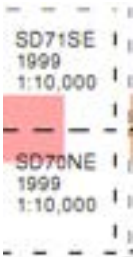
10k Raster Mapping

Published 1999

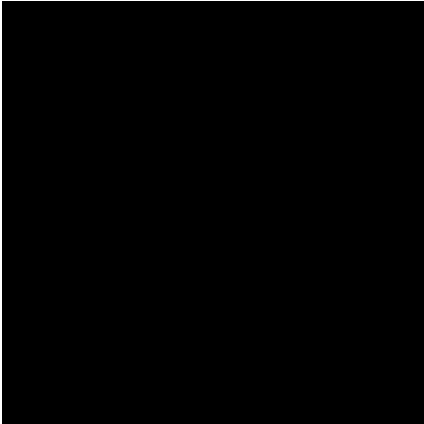
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 328418747_1_1
Customer Ref: LKC 23 1699
National Grid Reference: 376400, 410140
Slice: A
Site Area (Ha): 0.02
Search Buffer (m): 1000

Site Details

Bradley Fold Road, Ainsworth, Bolton, BL2 5QD



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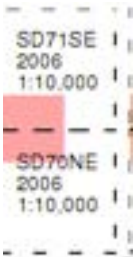
10k Raster Mapping

Published 2006

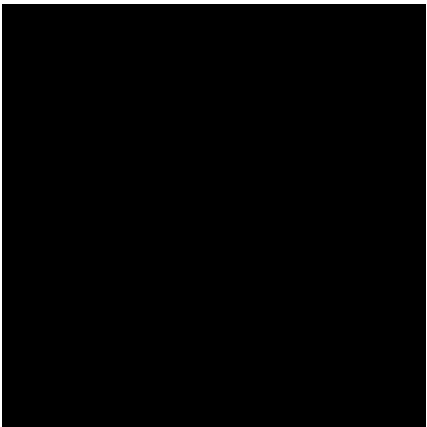
Source map scale - 1:10,000

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

Order Number: 328418747_1_1
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Search Buffer (m): 1000

Site Details

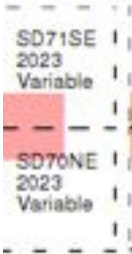
Bradley Fold Road, Ainsworth, Bolton, BL2 5QD



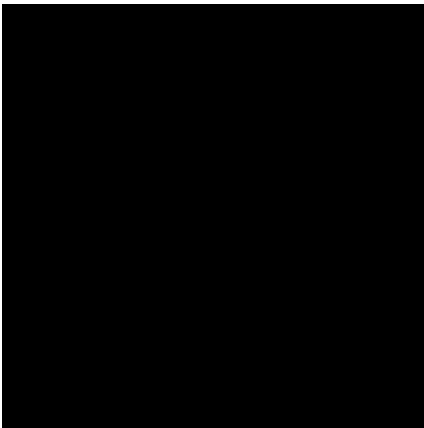
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

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

Map Name(s) and Date(s)



Historical Map - Slice A



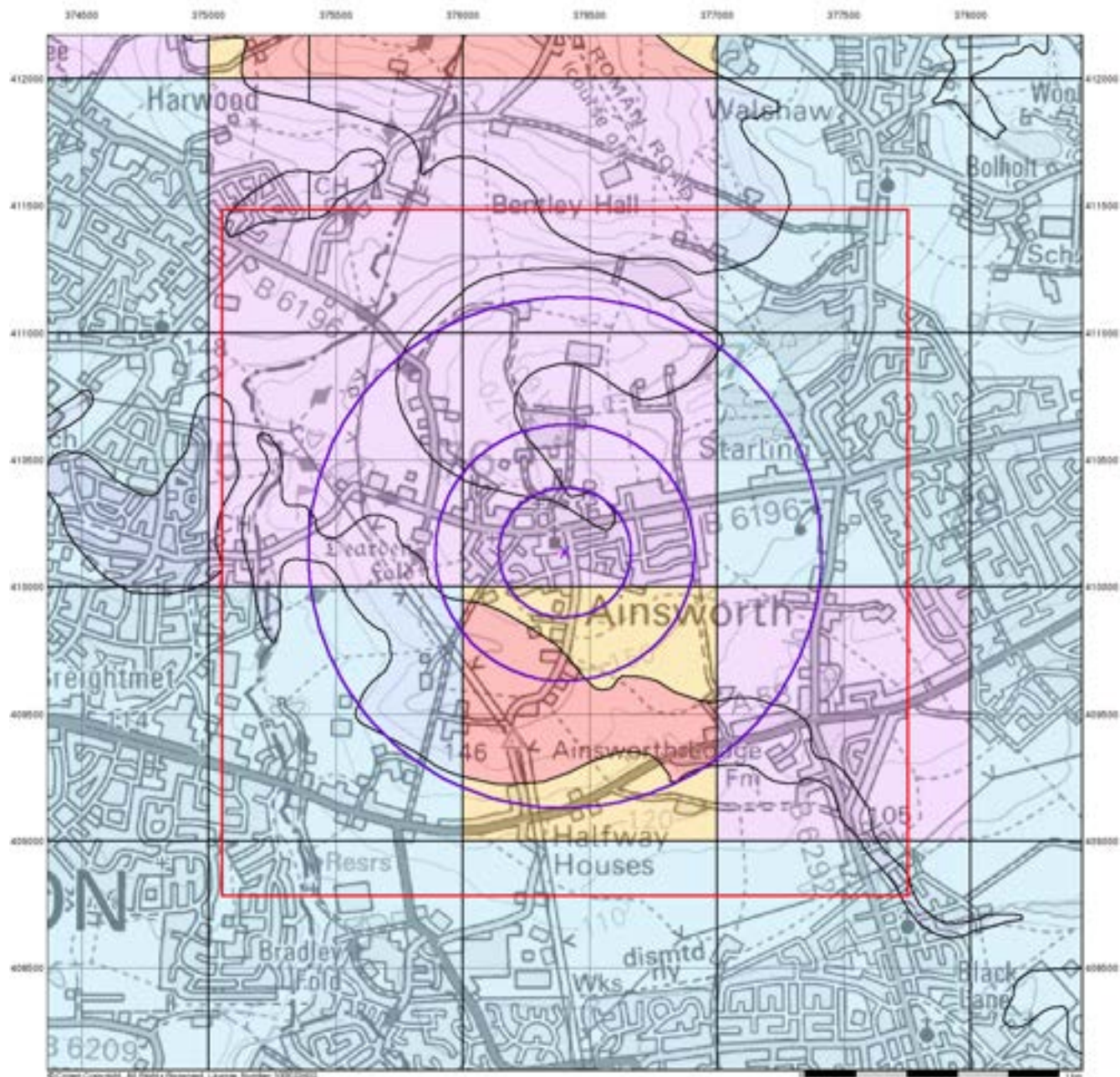
Order Details

Order Number: 328418747_1_1
Customer Ref: LKC 23 1699
National Grid Reference: 376400, 410140
Slice: A
Site Area (Ha): 0.02
Search Buffer (m): 1000

Site Details

Bradley Fold Road, Ainsworth, Bolton, BL2 5QD

Appendix B – Envirocheck Report



Groundwater Vulnerability

General

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

Agency and Hydrological

Bedrock Aquifers

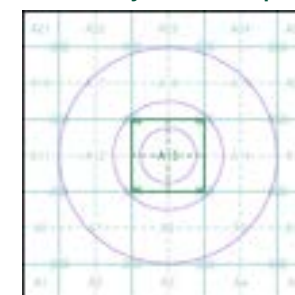
- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

Superficial Aquifers

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

- Unproductive Aquifer
- Soluble Rock

Site Sensitivity Context Map - Slice A



Order Details

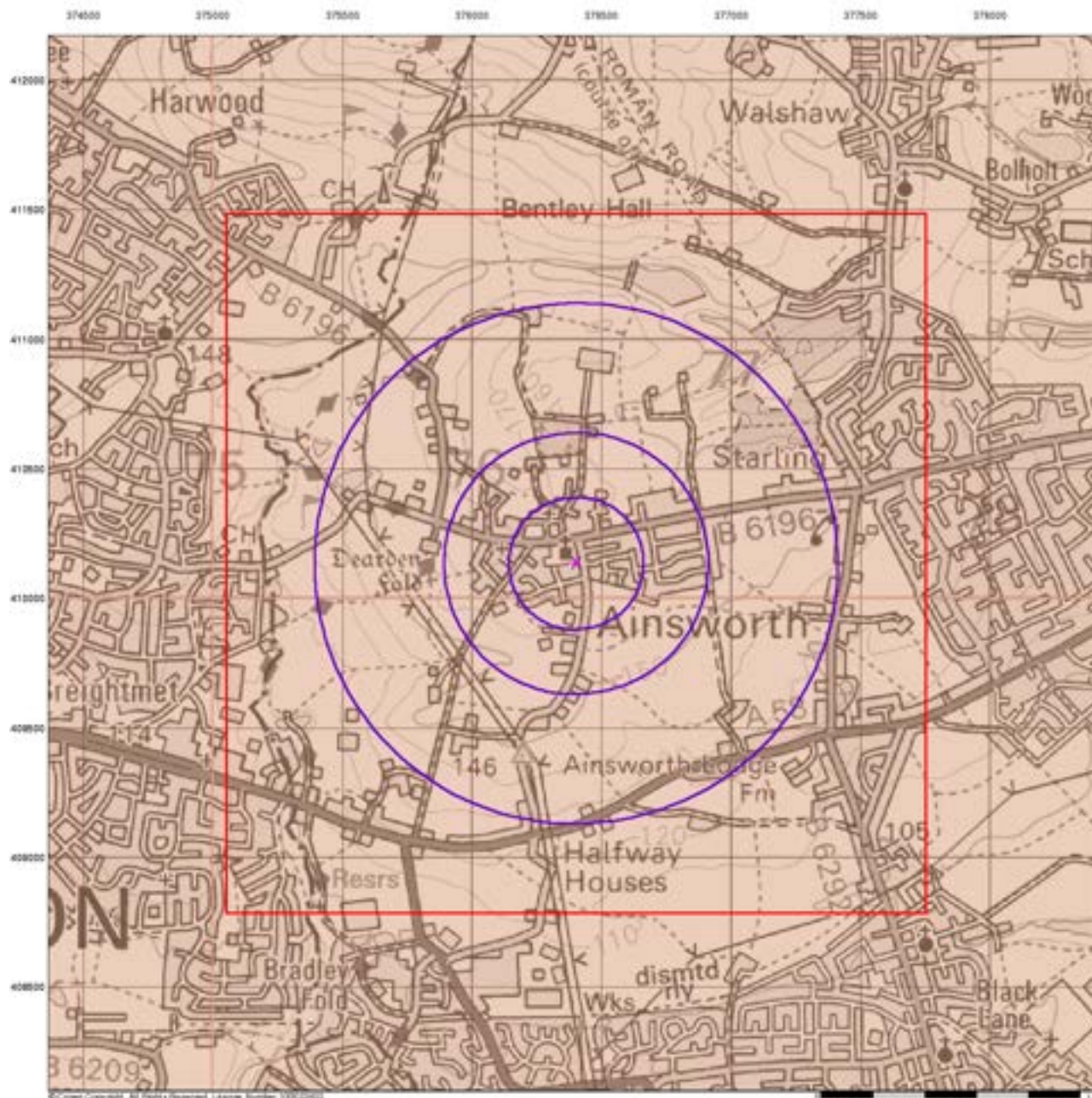
Order Number: 328418747_1_1
 Customer Ref: LKC 23 1699
 National Grid Reference: 376400, 410140
 Slice: A
 Site Area (Ha): 0.02
 Search Buffer (m): 1000

Site Details

Bradley Fold Road, Ainsworth, Bolton, BL2 5QD



Tel: 0844 844 9952
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Bedrock Aquifer Designation

General

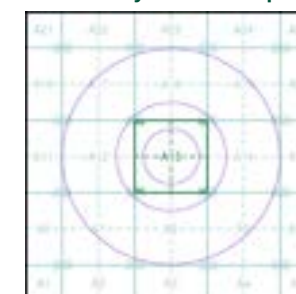
- ◇ Specified Site
- Specified Buffer(s)
- X Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

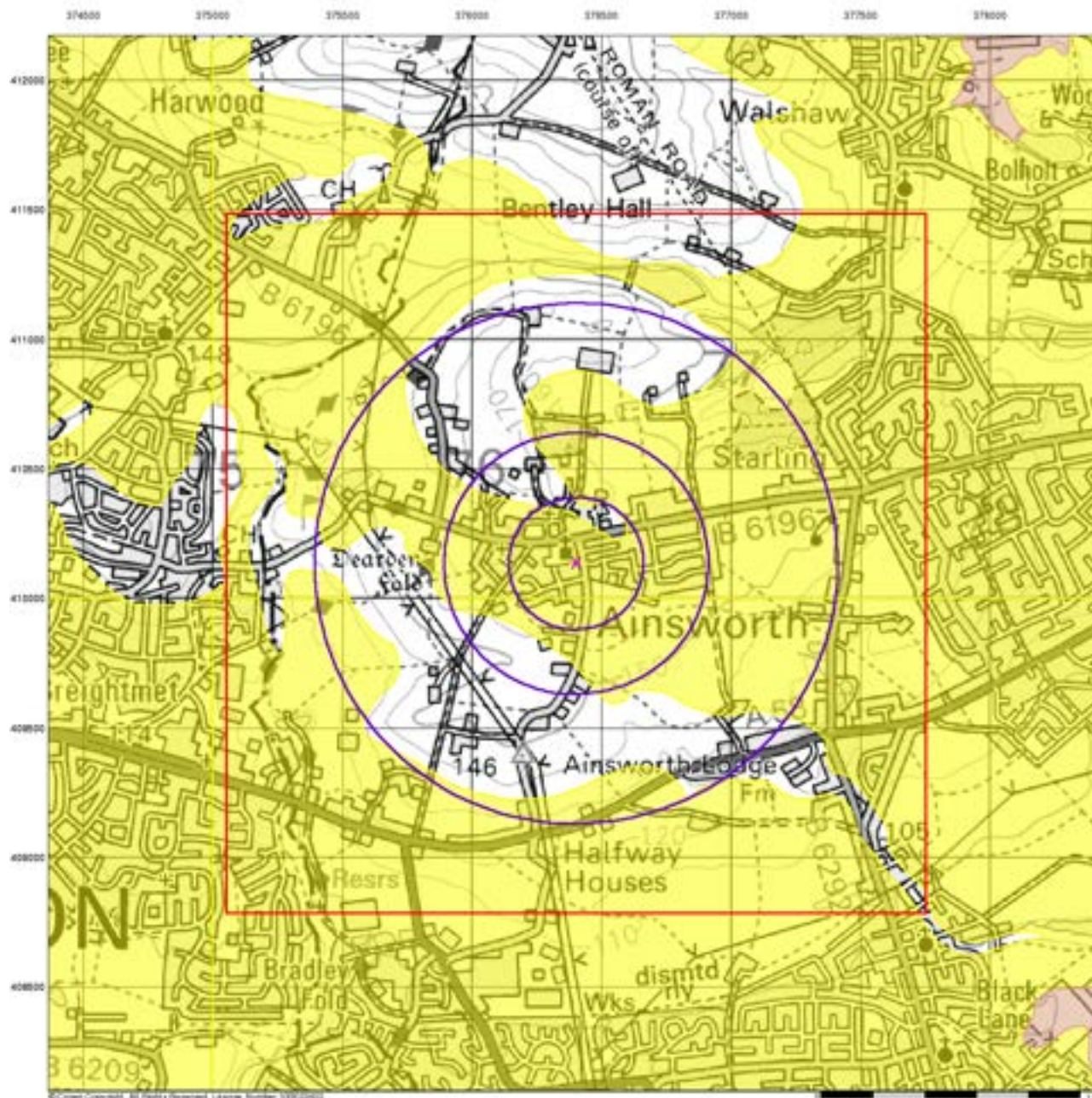
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 Customer Ref: LKC 23 1699
 National Grid Reference: 376400, 410140
 Slice: A
 Site Area (Ha): 0.02
 Search Buffer (m): 1000

Site Details

Bradley Fold Road, Ainsworth, Bolton, BL2 5QD



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



Superficial Aquifer Designation

General

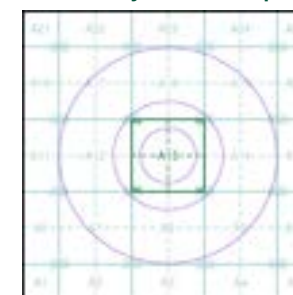
- X Specified Site
- Specified Buffer(s)
- X Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

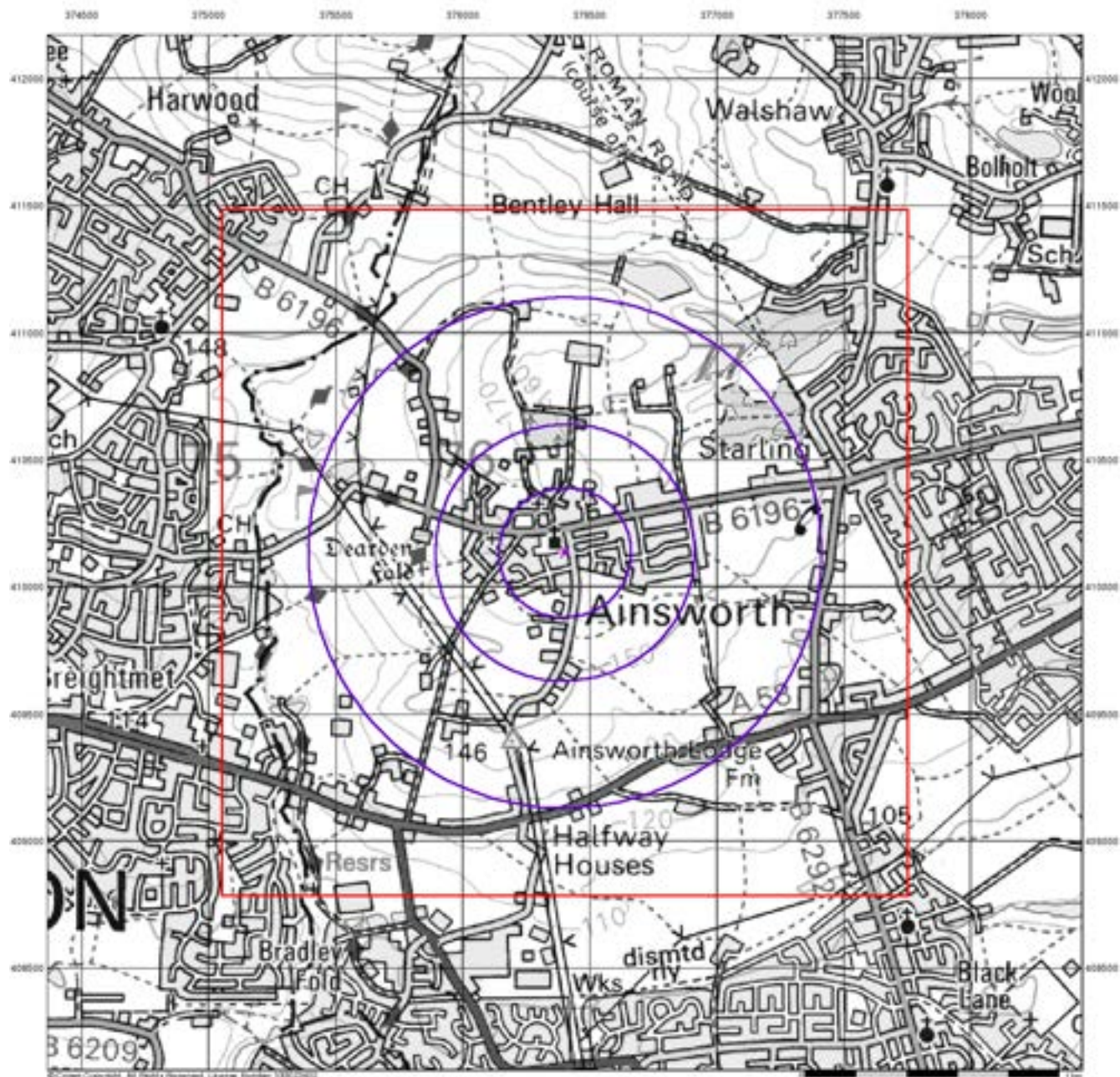
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 Customer Ref: LKC 23 1699
 National Grid Reference: 376400, 410140
 Slice: A
 Site Area (Ha): 0.02
 Search Buffer (m): 1000

Site Details

Bradley Fold Road, Ainsworth, Bolton, BL2 5QD



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Source Protection Zones

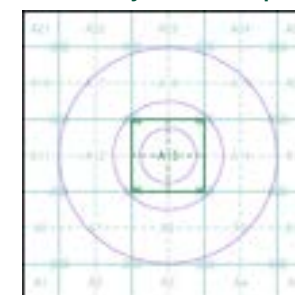
General

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

Agency and Hydrological

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

Site Sensitivity Context Map - Slice A



Order Details

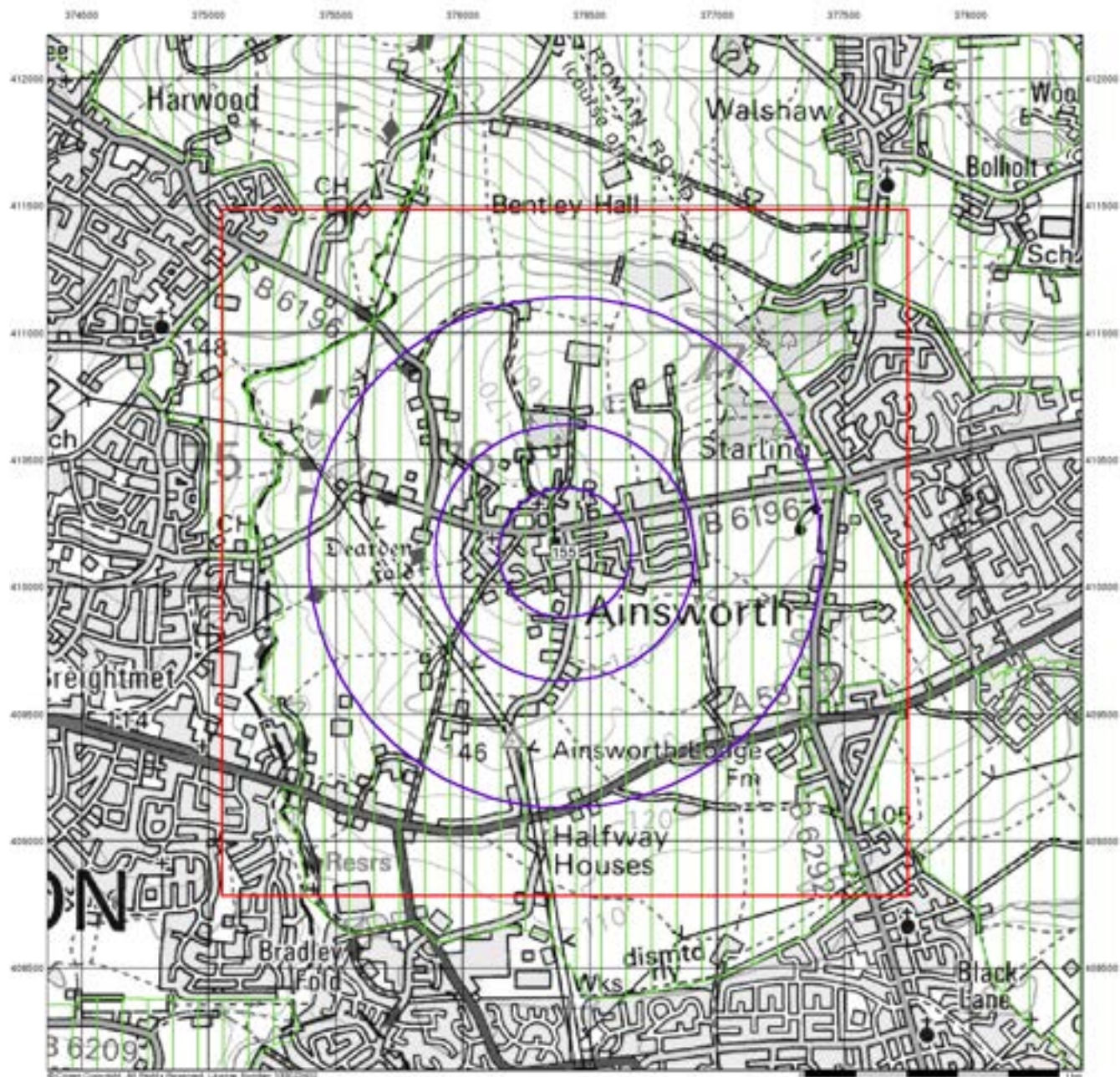
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 National Grid Reference: 376400, 410140
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 Site Area (Ha): 0.02
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Site Details

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Sensitive Land Uses

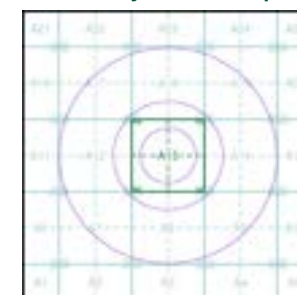
General

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

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice A



Order Details

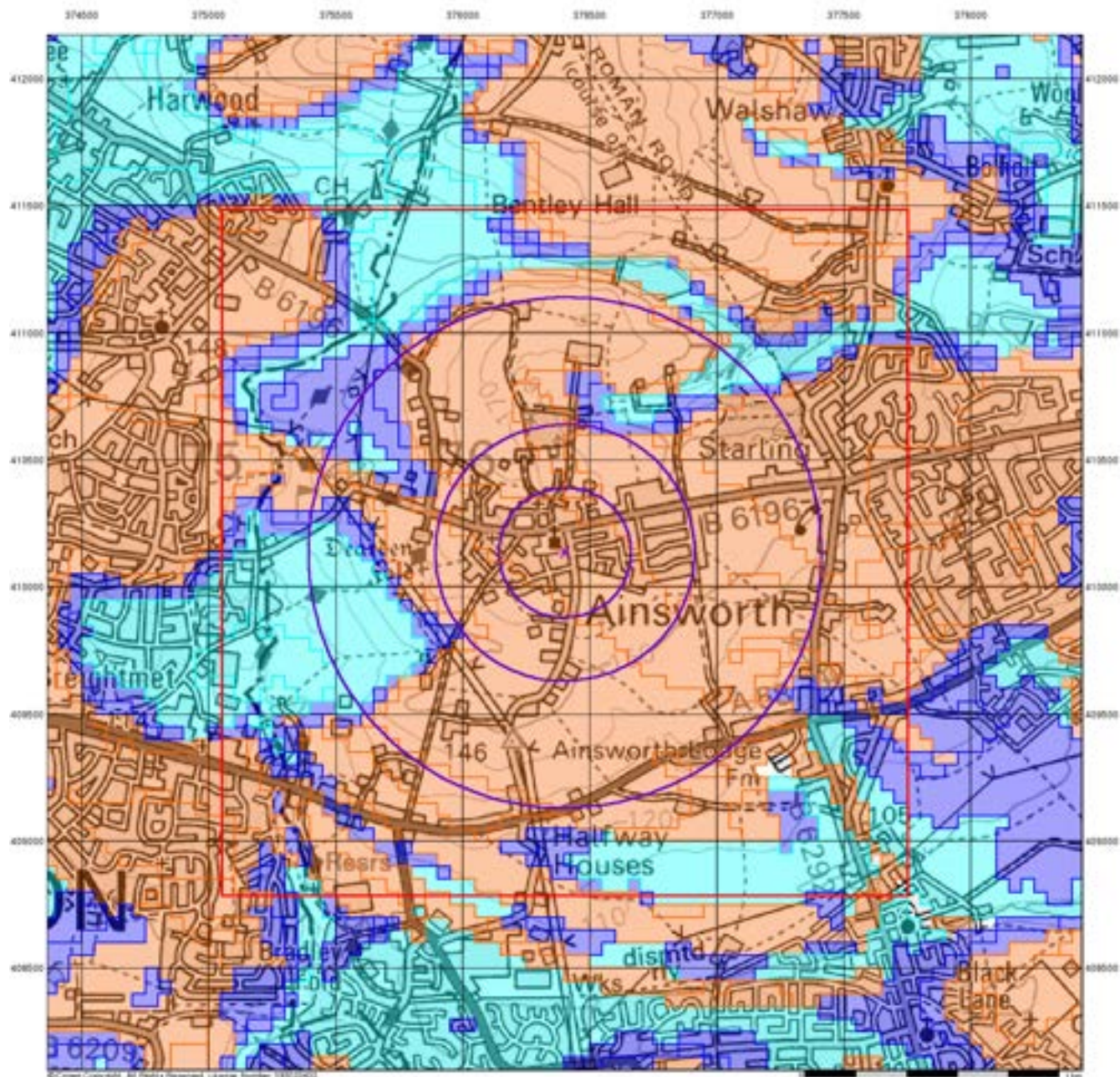
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 Customer Ref: LKC 23 1699
 National Grid Reference: 376400, 410140
 Slice: A
 Site Area (Ha): 0.02
 Search Buffer (m): 1000

Site Details

Bradley Fold Road, Ainsworth, Bolton, BL2 5QD



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



BGS Flood GFS Data

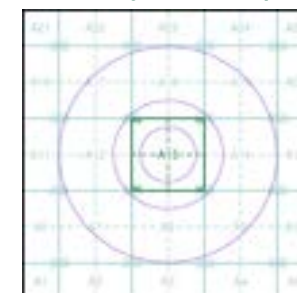
General

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

Agency and Hydrological (Flood)

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

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 328418747_1_1
 Customer Ref: LKC 23 1699
 National Grid Reference: 376400, 410140
 Slice: A
 Site Area (Ha): 0.02
 Search Buffer (m): 1000

Site Details

Bradley Fold Road, Ainsworth, Bolton, BL2 5QD



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

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

328418747_1_1

Customer Reference:

LKC 23 1699

National Grid Reference:

376400, 410140

Slice:

A

Site Area (Ha):

0.02

Search Buffer (m):

1000

Site Details:

Bradley Fold Road

Ainsworth

Bolton

BL2 5QD

Client Details:

L Consult

LK Consult Ltd

Unit 29 Eton Business Park

Eton Hill Road

Radcliffe

Greater Manchester

M26 2ZS

Report Section	Page Number
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Agency & Hydrological	1
Waste	24
Hazardous Substances	-
Geological	26
Industrial Land Use	36
Sensitive Land Use	39
Data Currency	40
Data Suppliers	46
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Introduction

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

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Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1			9	3
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 4			2	
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 4		Yes		
Pollution Incidents to Controlled Waters	pg 5				3
Prosecutions Relating to Authorised Processes	pg 5				1
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
Substantiated Pollution Incident Register	pg 5				2
River Quality Chemistry Sampling Points					
Water Abstractions	pg 6				6 (*27)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 14	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk			n/a	n/a	n/a
Groundwater Vulnerability - Local Information			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 14	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 14	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 14			3	72

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 24		1	1	
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 24	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 24		1	1	8
Potentially Infilled Land (Water)	pg 25		4	6	6
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 26	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 26	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 32		3	1	5
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 34	Yes	n/a	n/a	n/a
Mining Instability	pg 34	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 34	Yes	Yes	n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 34	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 34	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 34	Yes	Yes	n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 36		4	6	3
Fuel Station Entries	pg 37			1	
Points of Interest - Commercial Services	pg 37				5
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 37			4	5
Points of Interest - Public Infrastructure	pg 38				5
Points of Interest - Recreational and Environmental	pg 38		2		
Gas Pipelines					
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt	pg 39	1			
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (S)	0	1	376402 410136
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (NE)	117	1	376450 410250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (S)	132	1	376402 410000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (S)	139	1	376350 410000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	165	1	376250 410050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (N)	210	1	376400 410350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (N)	210	1	376402 410350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	407	1	376100 409850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (E)	412	1	376800 410000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (W)	425	1	376000 410300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (N)	462	1	376450 410600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (N)	469	1	376500 410600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (NW)	472	1	376000 410400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (N)	481	1	376550 410600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (SW)	484	1	376000 409850
1	Discharge Consents Operator: Bradley Fold Residents Association Property Type: Not Given Location: 56A - 68 Bradley Fold Road, Ainsworth, BOLTON Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 16992341 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 7th March 1977 Revocation Date: Not Supplied Discharge Type: Sewage Effluent Discharge-Treated Effluent Discharge Environment: Unknown Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SE (S)	322	2	376410 409810

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consents Operator: Mr. C. Turner Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: 1-6 Hulmes Terrace Off Bradley Fold Road, Ainsworth, Nr Bolton, Lancashire, BL2 5qw Authority: Environment Agency, North West Region Catchment Area: Middle Book (Off River Croal) Reference: 0174/8 Permit Version: 1 Effective Date: 23rd July 1974 Issued Date: 23rd July 1974 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Blackshaw Brook Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A13SW (S)	332	2	376400 409800
1	Discharge Consents Operator: Norman Morris & Eileen Morris Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: 1-6 Hulmes Terrace Off Bradley Fold Road, Ainsworth, Nr Bolton, Lancashire, BL2 5qw Authority: Environment Agency, North West Region Catchment Area: Middle Book (Off River Croal) Reference: 0174/8 Permit Version: 1 Effective Date: 23rd July 1974 Issued Date: 23rd July 1974 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Blackshaw Brook Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A13SW (S)	332	2	376400 409800
1	Discharge Consents Operator: Ms. B Hilton Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: 1-6 Hulmes Terrace Off Bradley Fold Road, Ainsworth, Nr Bolton, Lancashire, BL2 5qw Authority: Environment Agency, North West Region Catchment Area: Middle Book (Off River Croal) Reference: 0174/8 Permit Version: 1 Effective Date: 23rd July 1974 Issued Date: 23rd July 1974 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Blackshaw Brook Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A13SW (S)	332	2	376400 409800
1	Discharge Consents Operator: Stephen Wayne Owen Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: 1-6 Hulmes Terrace Off Bradley Fold Road, Ainsworth, Nr Bolton, Lancashire, BL2 5qw Authority: Environment Agency, North West Region Catchment Area: Middle Book (Off River Croal) Reference: 0174/8 Permit Version: 1 Effective Date: 23rd July 1974 Issued Date: 23rd July 1974 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Blackshaw Brook Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A13SW (S)	332	2	376400 409800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Church Street West Cso Rear Of 87 Church Street, Ainsworth, Radcliffe, Bury, BL2 5rd Authority: Environment Agency, North West Region Catchment Area: Middle Book (Off River Croal) Reference: 016993584 Permit Version: 2 Effective Date: 25th September 2018 Issued Date: 25th September 2018 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Lake/Reservoir - with outlet Environment: Receiving Water: Unnamed Pond Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	382	2	376620 410460
2	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Church Street West Cso Rear Of 87 Church Street, Ainsworth, Radcliffe, Bury, BL2 5rd Authority: Environment Agency, North West Region Catchment Area: Middle Book (Off River Croal) Reference: 016993584 Permit Version: 1 Effective Date: 31st May 2006 Issued Date: 31st May 2006 Revocation Date: 24th September 2018 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Lake/Reservoir - with outlet Environment: Receiving Water: Unnamed Pond Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	382	2	376620 410460
2	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Church Street West Cso Rear Of 87 Church Street, Ainsworth, Radcliffe, Bury, BL2 5rd Authority: Environment Agency, North West Region Catchment Area: Middle Book (Off River Croal) Reference: 01BRY0019 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: 1st January 1995 Revocation Date: 30th May 2006 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Pond Status: Consent revoked or revised: New Consent issued (Section 37(1)) Positional Accuracy: Located by supplier to within 100m	A13NE (NE)	382	2	376620 410460
3	Discharge Consents Operator: Bury Metropolitan Borough Council Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES) Location: Ainsworth Bankfield Childrens Home, Bury, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016992588 Permit Version: 1 Effective Date: 13th December 1993 Issued Date: Not Supplied Revocation Date: 1st October 1996 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Blackshaw Brook Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 100m	A12SE (SW)	425	2	376000 409970

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	Discharge Consents Operator: Mr Gordon H. Hartley Property Type: FARMS (NOT HOUSE)/CROP + ANIMAL REARING/PLANT NURSERY Location: Septic Tank & Soakaway Davenport Stables, Arthur Lane, Bolton, Lancashire, BL2 5pw Authority: Environment Agency, North West Region Catchment Area: Middle Book (Off River Croal) Reference: 016993467 Permit Version: 1 Effective Date: 12th March 2003 Issued Date: 12th March 2003 Revocation Date: Not Supplied Discharge Type: Sewage And Trade Combined - Unspecified Discharge: Land/Soakaway Environment: Receiving Water: Soakaway Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	548	2	376020 410540
5	Discharge Consents Operator: Mr B Parker Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Titus House Bradley Fold Rd, Ainsworth, Bolton, Lancashire, BL2 5qr Authority: Environment Agency, North West Region Catchment Area: Middle Book (Off River Croal) Reference: 01m/685 Permit Version: 1 Effective Date: 24th August 1964 Issued Date: 24th August 1964 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Unknown Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m	A8NW (S)	568	2	376321 409569
6	Discharge Consents Operator: Ainsworth Nursing Home Ltd Property Type: DENTIST/HOSPITAL/NURSING HOME (MEDICAL)/HUMAN HEALTH Location: Ainsworth Nursing Home Knowsley Road, Ainsworth, Bolton, Lancashire, BL2 5pt Authority: Environment Agency, North West Region Catchment Area: Middle Book (Off River Croal) Reference: 016993924 Permit Version: 1 Effective Date: 2nd March 2007 Issued Date: 2nd March 2007 Revocation Date: 13th October 2020 Discharge Type: Sewage And Trade Combined - Unspecified Discharge: Lake/Reservoir - with outlet Environment: Receiving Water: Trib To Lower Croft Reservoir Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A18SE (NE)	648	2	376700 410720
7	Local Authority Pollution Prevention and Controls Name: Masterbuild Products Ltd Location: Moorside Mill, Church Street, AINSWORTH, BL2 5RD Authority: Bury Metropolitan Borough Council, Environmental Health Department Permit Reference: Lappc04-09 Dated: 1st July 2004 Process Type: Local Authority Pollution Prevention and Control Description: PG6/44 Manufacture of coating materials Status: Authorised Positional Accuracy: Manually positioned to the address or location	A13NE (NE)	395	3	376722 410383
8	Local Authority Pollution Prevention and Controls Name: Ainsworth Service Station Location: 81 Church Street, Ainsworth, BURY, Lancashire, BL2 5RD Authority: Bury Metropolitan Borough Council, Environmental Health Department Permit Reference: Ps26 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station Status: Authorised Positional Accuracy: Automatically positioned to the address	A14NW (NE)	436	3	376806 410323
	Nearest Surface Water Feature	A13SE (SE)	238	-	376588 409976

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Foul Sewer Location: Old Barn Farm, Ainsworth, BOLTON Authority: Environment Agency, North West Region Pollutant: Sewage - Storm Overflow Note: Sewage In Stream Incident Date: 27th January 1998 Incident Reference: SO980176 Catchment Area: Irwell Receiving Water: Freshwater Stream/River Cause of Incident: Blocked Sewer Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	603	2	376800 410600
10	Pollution Incidents to Controlled Waters Property Type: Private Sewage (Non-PLC): Sewerage Systems Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Crude Sewage Note: Tributary Lowercroft Bk Incident Date: 7th October 1995 Incident Reference: 95622487 Catchment Area: Irwell Receiving Water: Not Given Cause of Incident: Blocked Sewer Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18SE (N)	666	2	376500 410800
11	Pollution Incidents to Controlled Waters Property Type: Stables Location: Sewage Debris In Brook, Ainsworth , BURY Authority: Environment Agency, North West Region Pollutant: Unknown Sewage Note: Irwell; Sewage Debris And Unknown Incident Date: 2nd June 1997 Incident Reference: 97620970 Catchment Area: Irwell Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	766	2	376800 410800
12	Prosecutions Relating to Authorised Processes Location: Barrack Fold Farm, Arthur Lane, Ainsworth, Bolton, BL2 5ps Prosecution Text: Spreading pulped paper waste on land without a license Prosecution Act: Epr07 R12 & R38(1)(A) Hearing Date: 14th July 2010 Verdict: Guilty Fine: 19500 Costs: 5865 Positional Accuracy: Manually positioned to the address or location	A18NW (N)	943	2	376195 411059
13	Substantiated Pollution Incident Register Authority: Environment Agency - North West Region, South Area Incident Date: 15th July 2003 Incident Reference: 173939 Water Impact: Category 4 - No Impact Air Impact: Category 2 - Significant Incident Land Impact: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Crude Sewage	A19SW (NE)	539	2	376740 410567
14	Substantiated Pollution Incident Register Authority: Environment Agency - North West Region, South Area Incident Date: 7th December 2001 Incident Reference: 47091 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Crude Sewage	A19NW (NE)	799	2	376788 410844

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	Water Abstractions Operator: D M Lord Licence Number: 2569003089 Permit Version: 100 Location: Borehole At Arthur Lane Nurseries Ainsworth Authority: Environment Agency, North West Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 110 Yearly Rate (m3): 9092 Details: Land & Prems-Arthur Lane Nurseries Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st May 1995 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	881	2	375790 410780
16	Water Abstractions Operator: Neenah Red Bridge International Limited Licence Number: 2569003051 Permit Version: 103 Location: Cherry Tree & Pimhole R/Voires Fed By Surface Drainage Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Ainsworth, Bolton Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 20th January 2022 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A12NW (W)	930	2	375500 410400
16	Water Abstractions Operator: Fibermark Red Bridge International Ltd Licence Number: 2569003051 Permit Version: 102 Location: Cherry Tree & Pimhole R/Voires Fed By Surface Drainage Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Ainsworth, Bolton Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 25th June 2012 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A12NW (W)	930	2	375500 410400
16	Water Abstractions Operator: Fibermark Red Bridge International Ltd Licence Number: 2569003051 Permit Version: 101 Location: Cherry Tree & Pimhole R/Voires Fed By Surface Drainage Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 218 Yearly Rate (m3): 54600 Details: Land At Ainsworth, Bolton Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 18th April 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A12NW (W)	930	2	375500 410400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	Water Abstractions Operator: Rexham Cfp Ltd. Licence Number: 2569003051 Permit Version: 101 Location: Cherry Tree & Pimhole R/Voires Fed By Surface Drainage \$114 Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Land At Ainsworth, Bolton Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st June 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A12NW (W)	930	2	375500 410400
17	Water Abstractions Operator: Neenah Red Bridge International Limited Licence Number: 2569003051 Permit Version: 103 Location: Cherry Tree & Pimhole R/Voires Fed By Surface Drainage Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Ainsworth, Bolton Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 20th January 2022 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12NW (W)	961	2	375484 410451
	Water Abstractions Operator: Pcn Properties Llp Licence Number: 2569003042/R1 Permit Version: 104 Location: Borehole At Premises, Ainsworth Mill Brightmet, Bolton Authority: Environment Agency, North West Region Abstraction: Textiles And Leather: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Ainsworth Mill, Bolton Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 6th August 2010 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	1017	2	375560 409550
	Water Abstractions Operator: Pnc Properties Llp Licence Number: 2569003042 Permit Version: 104 Location: Borehole At Premises, Ainsworth Mill Brightmet, Bolton Authority: Environment Agency, North West Region Abstraction: Textiles And Leather: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Ainsworth Mill Brightmet Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 15th October 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	1017	2	375560 409550

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Ainsworth Finishing Company Ltd Licence Number: 2569003042 Permit Version: 103 Location: Borehole At Premises, Ainsworth Mill Brightmet, Bolton Authority: Environment Agency, North West Region Abstraction: Textiles And Leather: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Ainsworth Mill Brightmet Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 5th August 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	1017	2	375560 409550
	Water Abstractions Operator: Ainsworth Finishing Company Ltd Licence Number: 2569003042 Permit Version: 102 Location: Borehole At Premises, Ainsworth Millbrightmet, Bolton Authority: Environment Agency, North West Region Abstraction: Textiles And Leather: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: At Ainsworth Mill, Brightmet Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 23rd February 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	1040	2	375500 409600
	Water Abstractions Operator: C.V. Home Furnishings Ltd Licence Number: 2569003042 Permit Version: 101 Location: Borehole At Premises, Ainsworth Millbrightmet, Bolton Authority: Environment Agency, North West Region Abstraction: Textiles And Leather: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 436 Yearly Rate (m3): 0 Details: At Ainsworth Mill, Brightmet Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 22nd May 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	1040	2	375500 409600
	Water Abstractions Operator: Neenah Red Bridge International Limited Licence Number: 2569003051 Permit Version: 103 Location: Cherry Tree And Pimhole Reservoirs Fed By Surface Drainage Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Ainsworth, Bolton Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 20th January 2022 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A17SW (W)	1078	2	375397 410552

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Brightmet Golf Club Limited Licence Number: 2569003098 Permit Version: 1 Location: Pimhole Reservoir At Redbridge, Bolton Authority: Environment Agency, North West Region Abstraction: Golf Courses: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Brightmet Golf Club Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	1078	2	375400 410560
	Water Abstractions Operator: Ainsworth Finishing Company Ltd. Licence Number: 2569003043 Permit Version: 102 Location: Reservoir Fed By Surface Drainage At premises, Ainsworth Mill Authority: Environment Agency, North West Region Abstraction: Textiles And Leather: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Ainsworth Mill, Brightmet, Bolton Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 23rd February 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	1094	2	375500 409500
	Water Abstractions Operator: Ainsworth Finishing Company Ltd Licence Number: 2569003043 Permit Version: 103 Location: Reservoir Fed By Surface Drainage At premises, Ainsworth Mill Authority: Environment Agency, North West Region Abstraction: Textiles And Leather: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Ainsworth Mill, Brightmet, Bolton Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 23rd February 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	1094	2	375500 409500
	Water Abstractions Operator: Ainsworth Finishing Company Licence Number: 2569003043 Permit Version: 101 Location: Reservoir Fed By Surface Drainage At premises, Ainsworth Mill Authority: Environment Agency, North West Region Abstraction: Textiles And Leather: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 755 Yearly Rate (m3): 236392 Details: Ainsworth Mill, Brightmet, Bolton Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 20th September 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	1094	2	375500 409500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Fibermark Red Bridge International Ltd Licence Number: 2569003051 Permit Version: 102 Location: Cherry Tree And Pimhole Reservoirs Fed By Surface Drainage Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Ainsworth, Bolton Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 25th June 2012 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A17SW (NW)	1095	2	375400 410600
	Water Abstractions Operator: Fibermark Red Bridge International Ltd Licence Number: 2569003051 Permit Version: 101 Location: Cherry Tree And Pimhole Reservoirs Fed By Surface Drainage Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Ainsworth, Bolton Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 18th April 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	1095	2	375400 410600
	Water Abstractions Operator: Ainsworth Finishing Company Ltd Licence Number: 2569003043 Permit Version: 104 Location: Reservoir Fed By Surface Drainage At Premises Ainsworth Mill Authority: Environment Agency, North West Region Abstraction: Textiles And Leather: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Lands Ainsworth Mill Breightmet Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 5th August 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7SW (SW)	1121	2	375520 409430
	Water Abstractions Operator: Ainsworth Finishing Company Ltd Licence Number: 2569003043 Permit Version: 103 Location: Reservoir Fed By Surface Drainage At Premises Ainsworth Mill Authority: Environment Agency, North West Region Abstraction: Textiles And Leather: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Ainsworth Mill, Breightmet, Bolton Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 23rd February 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7SW (SW)	1121	2	375520 409430

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: C.V. Home Furnishings Ltd Licence Number: 2569003012 Permit Version: 101 Location: Borehole At Premises, Ainsworth Millbrightmet, Bolton Authority: Environment Agency, North West Region Abstraction: Textiles And Leather: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 27 Yearly Rate (m3): 8183 Details: At Ainsworth Mill, Brightmet Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 22nd May 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A7SW (SW)	1291	2	375500 409200
	Water Abstractions Operator: Pcn Properties Llp Licence Number: 2569003012/R1 Permit Version: 104 Location: Borehole At Premises, Ainsworth Millbrightmet, Bolton Authority: Environment Agency, North West Region Abstraction: Textiles And Leather: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Ainsworth Mill Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 6th August 2010 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7SW (SW)	1326	2	375460 409190
	Water Abstractions Operator: Pnc Properties Llp Licence Number: 2569003012 Permit Version: 104 Location: Borehole At Premises, Ainsworth Millbrightmet, Bolton Authority: Environment Agency, North West Region Abstraction: Textiles And Leather: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Ainsworth Mill Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 15th October 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7SW (SW)	1326	2	375460 409190
	Water Abstractions Operator: Ainsworth Finishing Company Ltd Licence Number: 2569003012 Permit Version: 103 Location: Borehole At Premises, Ainsworth Millbrightmet, Bolton Authority: Environment Agency, North West Region Abstraction: Textiles And Leather: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Ainsworth Mill Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 5th August 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7SW (SW)	1326	2	375460 409190

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Ainsworth Finishing Company Ltd Licence Number: 2569003012 Permit Version: 102 Location: Borehole At Premises, Ainsworth Millbroughtmet, Bolton Authority: Environment Agency, North West Region Abstraction: Textiles And Leather: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: At Ainsworth Mill, Broughtmet Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 23rd February 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7SW (SW)	1326	2	375460 409190
	Water Abstractions Operator: The Elton Cop Dyeing Co Ltd Licence Number: 2569001160 Permit Version: 100 Location: Reservoirs Fed By Elton Brk At Bury Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 3400 Yearly Rate (m3): 852000 Details: Premises At Walshaw Road, Bury Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 25th February 1975 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A20NW (NE)	1328	2	377500 410900
	Water Abstractions Operator: Harwood Golf Club Licence Number: 2569003078 Permit Version: 100 Location: Unnamed Trib Of Blackshaw Brk At Harwood Golf Club And Re Authority: Environment Agency, North West Region Abstraction: Golf Courses: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 11 Yearly Rate (m3): 455 Details: Harwood Golf Club Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 25th April 1980 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A22SW (NW)	1353	2	375700 411300
	Water Abstractions Operator: D F Marsden Licence Number: 2569001177 Permit Version: 100 Location: B/Hole , Old Holts Farmroading Brook Rd, Harwood, Bolton Authority: Environment Agency, North West Region Abstraction: General Agriculture; General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 5 Yearly Rate (m3): 1591 Details: Premises, Old Holts Farm, Harwood Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 24th February 1969 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A23NW (N)	1673	2	376200 411800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: The Trustees Of Harwood Golf Club Licence Number: 2569003095/R02 Permit Version: 1 Location: Borehole At Harwood Golf Club Authority: Environment Agency, North West Region Abstraction: Sports Grounds/Facilities: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Harwood Golf Club Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 1st April 2015 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A22NW (NW)	1816	2	375450 411690
	Water Abstractions Operator: Mr J S Fairhurst And Mr B G Green And Mr J Fish And Mr C Wood Licence Number: 2569003095/R1 Permit Version: 1 Location: Borehole At Harwood Golf Club Authority: Environment Agency, North West Region Abstraction: Sports Grounds/Facilities: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Harwood Golf Club Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A22NW (NW)	1816	2	375450 411690
	Water Abstractions Operator: The Secretary Licence Number: 2569003095 Permit Version: 100 Location: Borehole At Harwood Golf Club Authority: Environment Agency, North West Region Abstraction: Sports Grounds/Facilities: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 50 Yearly Rate (m3): 10000 Details: Land At Harwood Golf Club Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 26th February 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A22NW (NW)	1816	2	375450 411690
	Water Abstractions Operator: Dussek Campbell Ltd Licence Number: 2569001206 Permit Version: Not Supplied Location: Reservoir Fed By Walshaw Brook, Walshaw, BURY Authority: Environment Agency, North West Region Abstraction: Cooling Abstraction Type: Not Supplied Source: River Daily Rate (m3): 2637 Yearly Rate (m3): 818280 Details: Licence Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A25NW (NE)	1958	2	377600 411695

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Dussek Campbell Ltd Licence Number: 2542 Permit Version: Not Supplied Location: Walshaw, BURY Authority: Environment Agency, North West Region Abstraction: Cooling Abstraction Type: Not Supplied Source: Reservoir/Pond Daily Rate (m3): 580000 Yearly Rate (m3): 180000000 Details: Reservoir Fed By Walshaw Brook; Status: Revoked; Lapsed Or Cancelled Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A25NW (NE)	1962	2	377600 411700
	Groundwater Vulnerability Map Combined Secondary Bedrock Aquifer - Medium Vulnerability Classification: Medium Combined Vulnerability: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: <40% Superficial <90% Patchiness: <3m Superficial Thickness: No Data Superficial Recharge:	A13NE (S)	0	4	376402 410136
	Groundwater Vulnerability - Soluble Rock Risk None				
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NE (S)	0	4	376402 410136
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A13NE (S)	0	4	376402 410136
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
18	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 273.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8NE (S)	444	5	376462 409694
19	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 119.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12SE (W)	462	5	375935 410069

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
20	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 97.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12SE (SW)	470	5	376004 409869
21	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 195.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18SE (N)	507	5	376453 410646
22	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 128.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A14SW (E)	532	5	376936 410051
23	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18SE (N)	535	5	376505 410667
24	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 124.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18SE (N)	535	5	376505 410667
25	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12NE (NW)	550	5	375889 410360
26	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 73.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A14SW (E)	558	5	376939 409956
27	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 25.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A7NE (SW)	559	5	375957 409783
28	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 68.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12SE (W)	579	5	375817 410071

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
29	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 50.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18SE (N)	616	5	376593 410728
30	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 99.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18SE (N)	617	5	376582 410732
31	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 82.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A14SW (E)	628	5	377013 409953
32	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18SE (N)	628	5	376631 410728
33	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18SE (N)	629	5	376634 410728
34	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18SE (N)	633	5	376644 410728
35	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8NE (SE)	635	5	376700 409570
36	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 13.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18SE (NE)	636	5	376659 410726
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 142.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A19SW (NE)	637	5	376848 410604

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 221.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8NE (SE)	637	5	376702 409568
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 73.0 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18SE (NE)	642	5	376672 410726
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 548.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12SE (W)	647	5	375751 410053
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 147.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8NE (S)	660	5	376621 409509
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 76.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A19SW (NE)	683	5	376744 410736
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 71.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A19SW (NE)	699	5	376840 410691
44	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 14.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12NE (NW)	703	5	375754 410433
45	OS Water Network Lines Watercourse Form: Marsh Watercourse Length: 69.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A14SE (E)	706	5	377086 409926
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 211.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8SW (S)	711	5	376324 409424

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 119.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12NE (NW)	718	5	375741 410440
48	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 77.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A9NW (SE)	725	5	376981 409688
49	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 150.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8SE (S)	745	5	376625 409421
50	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A19SW (NE)	745	5	376807 410771
51	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 115.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A19SW (NE)	752	5	376816 410773
52	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 54.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A14SE (E)	765	5	377152 409947
53	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 325.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A19SW (NE)	765	5	376900 410728
54	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 15.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A9NW (SE)	785	5	377054 409684
55	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8SE (SE)	786	5	376737 409419

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 101.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8SE (SE)	789	5	376738 409416
57	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 284.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A9NW (SE)	797	5	377069 409686
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 316.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A17SE (NW)	801	5	375839 410716
59	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 41.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A9SW (SE)	801	5	376828 409451
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 83.1 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A14SE (E)	817	5	377206 409947
61	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A9NW (SE)	824	5	376968 409528
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 15.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A17SW (NW)	835	5	375636 410492
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A9SW (SE)	835	5	376827 409411
64	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 81.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A9SW (SE)	836	5	376828 409410

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
65	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A17SW (NW)	844	5	375623 410485
66	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 216.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A19NW (NE)	845	5	376914 410819
67	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 129.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A17SW (NW)	855	5	375610 410483
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 78.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8SE (S)	881	5	376719 409310
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 24.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A9SW (SE)	885	5	376782 409332
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 229.8 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8SE (S)	886	5	376439 409247
71	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 117.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A14SE (E)	901	5	377287 409924
72	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 39.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A9SW (SE)	909	5	376798 409313
73	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 105.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A9SW (SE)	911	5	376834 409328

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
74	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 93.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A9NE (E)	920	5	377265 409791
75	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 292.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A7NW (SW)	925	5	375556 409738
76	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A9SW (SE)	930	5	376834 409307
77	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 88.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A9SW (SE)	931	5	376837 409307
78	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 41.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8SW (S)	934	5	376346 409200
79	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A17SW (NW)	942	5	375559 410578
80	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 80.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A17SW (NW)	945	5	375557 410580
81	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 79.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A17SW (NW)	950	5	375527 410530
82	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 26.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A9SW (SE)	954	5	376967 409360

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
83	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 133.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12NW (W)	960	5	375485 410450
84	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 54.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A9SW (SE)	962	5	376922 409319
85	OS Water Network Lines Watercourse Form: Marsh Watercourse Length: 6.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8SW (S)	973	5	376357 409159
86	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 69.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A9SW (SE)	979	5	376973 409334
87	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 5.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8SW (S)	980	5	376358 409153
88	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 26.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Starling Pond Catchment Name: Mersey Primacy: 1	A14SE (E)	982	5	377344 409830
89	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 49.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A9NE (E)	988	5	377338 409792
90	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 12.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Starling Pond Catchment Name: Mersey Primacy: 1	A14SE (E)	988	5	377340 409799
91	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 28.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A14SE (E)	988	5	377342 409804

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
92	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 15.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A9SW (SE)	989	5	377052 409381

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
93	Historical Landfill Sites Licence Holder: Not Supplied Location: Ainsworth, Greater Manchester Name: Delph Lodge Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15806 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Deposited Waste included Industrial and Household Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: C086	A13NE (NE)	145	2	376511 410244
94	Historical Landfill Sites Licence Holder: T J Murphy Location: Simister, Ainsworth, Bury, Greater Manchester Name: Delph Lane Quarry / Land at Egypt Lane Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15800 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Deposited Waste included Household Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: C122, 01140	A13NW (NW)	318	2	376178 410373
	Local Authority Landfill Coverage Name: Bury Metropolitan Borough Council - Has not been able to supply Landfill data		0	6	376402 410136
95	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1982	A13NE (NE)	149	-	376496 410262
96	Potentially Infilled Land (Non-Water) Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1982	A14NW (E)	363	-	376760 410238
97	Potentially Infilled Land (Non-Water) Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1982	A18SW (NW)	556	-	376131 410628
98	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A8NW (S)	583	-	376252 409567
99	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A9SW (SE)	814	-	376823 409433
100	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A9NW (SE)	848	-	376981 409507
101	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A9SW (SE)	865	-	376917 409434
102	Potentially Infilled Land (Non-Water) Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A7NW (SW)	944	-	375685 409509
103	Potentially Infilled Land (Non-Water) Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1982	A14NE (E)	973	-	377330 410459

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
104	Potentially Infilled Land (Non-Water) Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1982	A18NE (N)	990	-	376712 411083
105	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1931	A13NE (N)	143	-	376411 410283
106	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1931	A13SW (W)	161	-	376234 410104
107	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A13NW (NW)	184	-	376235 410234
108	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A13SW (SW)	237	-	376209 409983
109	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A13NW (W)	275	-	376132 410225
110	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A13NW (NW)	388	-	376087 410376
111	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A13NE (NE)	389	-	376721 410374
112	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A14SW (SE)	397	-	376763 409951
113	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1931	A8NE (S)	430	-	376465 409707
114	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A14NW (NE)	483	-	376777 410454
115	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A12NE (W)	523	-	375871 410183
116	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1911	A8NW (S)	609	-	376304 409529
117	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A9NW (SE)	620	-	376912 409769
118	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A12SW (W)	987	-	375460 409813
119	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A7SE (SW)	990	-	375831 409317
120	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A9SW (SE)	999	-	376990 409320

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Pennine Lower Coal Measures Formation And South Wales Lower Coal Measures Formation (Undifferentiated)	A13NE (S)	0	1	376402 410136
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13NE (S)	0	1	376402 410136
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13NE (E)	89	1	376500 410136
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13NE (NE)	145	1	376485 410265
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13NE (NE)	146	1	376500 410255
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13SW (SW)	167	1	376308 409989
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13SW (SW)	168	1	376290 410000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13NE (N)	217	1	376430 410356
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13NE (NE)	226	1	376598 410266
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13NE (NE)	226	1	376602 410259
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13NE (NE)	246	1	376500 410369
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13NE (N)	296	1	376500 410422
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13SW (SW)	318	1	376237 409856

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A12SE (W)	522	1	375888 410000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A18SW (N)	561	1	376390 410701
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A19SW (NE)	605	1	376897 410500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 200 - 300 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A8NE (S)	632	1	376402 409500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A18SW (N)	659	1	376216 410773
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A19SW (NE)	728	1	377000 410568

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: 1.8 - 2.2 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 200 - 300 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A7NE (SW)	745	1	376000 409500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A9NW (SE)	752	1	377029 409707
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A7NW (SW)	764	1	375710 409791
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A19SW (NE)	784	1	376858 410784
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A8SE (S)	812	1	376614 409348
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A19SW (NE)	819	1	377000 410709

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 200 - 300 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8SE (S)	829	1	376500 409310
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A9NW (SE)	851	1	377035 409556
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 200 - 300 mg/kg Nickel 15 - 30 mg/kg Concentration:	A9NW (SE)	866	1	377000 409500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12SW (W)	873	1	375530 410000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 200 - 300 mg/kg Nickel 15 - 30 mg/kg Concentration:	A9NW (SE)	908	1	377061 409500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18NE (N)	948	1	376558 411077

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 200 - 300 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A8SW (S)	960	1	376077 409226
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: 1.8 - 2.2 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 200 - 300 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A7SE (SW)	962	1	375997 409255
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A7NW (SW)	966	1	375631 409540
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A7NW (SW)	967	1	375606 409572
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: 1.8 - 2.2 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 200 - 300 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A7NW (SW)	967	1	375662 409500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: 1.8 - 2.2 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 200 - 300 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A7SE (SW)	970	1	375859 409323

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19NW (NE)	979	1	377000 410921
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19NW (NE)	985	1	377000 410929
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19NW (NE)	986	1	377004 410928
121	BGS Recorded Mineral Sites Site Name: Ainsworth Quarry Location: Ainsworth, Bury, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 256383 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Old Lawrence Rock Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	181	1	376505 410294
122	BGS Recorded Mineral Sites Site Name: Ainsworth Quarry Location: Ainsworth, Bury, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 256384 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Old Lawrence Rock Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A13NE (N)	208	1	376431 410347
123	BGS Recorded Mineral Sites Site Name: Ainsworth Quarry Location: Ainsworth, Bury, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 15301 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	219	1	376555 410305

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
124	BGS Recorded Mineral Sites Site Name: Ainsworth Quarry Location: Ainsworth, Bury, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 9806 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A13NW (NW)	438	1	376090 410455
125	BGS Recorded Mineral Sites Site Name: Plane Trees Location: Ainsworth, Bury, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 96469 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Cannel Rock (South Lancashire) Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A8NW (S)	571	1	376242 409582
126	BGS Recorded Mineral Sites Site Name: New Brown Hill Quarry Location: Ainsworth, Bury, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 96463 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A18SW (NW)	572	1	376128 410645
127	BGS Recorded Mineral Sites Site Name: Ainsworth Lodge Location: Ainsworth, Bury, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 96470 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Cannel Rock (South Lancashire) Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	808	1	376817 409436
128	BGS Recorded Mineral Sites Site Name: Ainsworth Lodge Location: Ainsworth, Bury, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 96471 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Cannel Rock (South Lancashire) Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	851	1	376912 409447
129	BGS Recorded Mineral Sites Site Name: Rothwells Location: Ainsworth, Bury, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 96468 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Cannel Rock (South Lancashire) Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	942	1	375673 409525

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13NE (S)	0	7	376402 410136
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13NE (S)	0	-	376402 410136
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (S)	0	1	376402 410136
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	132	1	376402 410000
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (S)	0	1	376402 410136
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	132	1	376402 410000
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (S)	0	1	376402 410136
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	132	1	376402 410000
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (S)	0	1	376402 410136
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	132	1	376402 410000
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (S)	0	1	376402 410136
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	132	1	376402 410000
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	152	1	376509 410256
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (S)	0	1	376402 410136
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	132	1	376402 410000
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	152	1	376509 410256
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13NE (S)	0	1	376402 410136

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13NE (S)	0	1	376402 410136

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
130	Contemporary Trade Directory Entries Name: Roofline Location: 42, Church Street, Ainsworth, Bolton, BL2 5RT Classification: Cladding Suppliers & Installers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	110	-	376492 410214
130	Contemporary Trade Directory Entries Name: Bolton Enamellers Location: 50, Church Street, Ainsworth, Bolton, BL2 5RT Classification: Enamelling Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (NE)	127	-	376511 410218
130	Contemporary Trade Directory Entries Name: Bolton Enamellers Location: 50, Church Street, Ainsworth, Bolton, BL2 5RT Classification: Enamelling Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	127	-	376511 410218
131	Contemporary Trade Directory Entries Name: Time For You Domestic Cleaning Location: 31, Broomfield Close, Ainsworth, Bolton, BL2 5QY Classification: Cleaning Services - Domestic Status: Active Positional Accuracy: Automatically positioned to the address	A13SW (SW)	199	-	376256 409989
132	Contemporary Trade Directory Entries Name: Master Build Products Location: MOORSIDE MILL, CHURCH STREET, AINSWORTH, RADCLIFFE, BL2 5RD Classification: Paint Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A14NW (NE)	405	-	376743 410372
133	Contemporary Trade Directory Entries Name: Caramedic Location: 37, Delph Lane, Bolton, BL2 5PP Classification: Caravans - Servicing & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (NW)	415	-	376059 410384
134	Contemporary Trade Directory Entries Name: George Nightingale & Son Location: Church St, Ainsworth, Bolton, Lancashire, BL2 5RD Classification: Car Body Repairs Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A14NW (E)	428	-	376811 410291
134	Contemporary Trade Directory Entries Name: Ainsworth Service Station Ltd Location: 81, Church Street, Ainsworth, Bolton, BL2 5RD Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (NE)	437	-	376806 410323
135	Contemporary Trade Directory Entries Name: Horizon Condensation Control Location: 4, Moorside Avenue, Ainsworth, Bolton, BL2 5RP Classification: Damp & Dry Rot Control Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SW (E)	459	-	376869 410107
135	Contemporary Trade Directory Entries Name: Bates Builders Location: 4, Moorside Avenue, Ainsworth, Bolton, BL2 5RP Classification: Damp & Dry Rot Control Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SW (E)	459	-	376869 410107
136	Contemporary Trade Directory Entries Name: Kamal Mohammadi Location: Titus House, Bradley Fold Road, Ainsworth, Bolton, BL2 5QR Classification: Laundries & Launderettes Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (S)	550	-	376341 409585
137	Contemporary Trade Directory Entries Name: Webbing Winders Location: 12, Arthur Lane, Ainsworth, Bolton, BL2 5PW Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	635	-	375938 410581

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
138	Contemporary Trade Directory Entries Name: Grace Overseas Location: 423, Bury & Bolton Road, Radcliffe, Manchester, M26 4LJ Classification: Freight Forwarders Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SE (SE)	994	-	377114 409433
139	Fuel Station Entries Name: Ainsworth Service Station Location: Church Street , Ainsworth , Bolton, Greater Manchester, BL2 5RD Brand: Bfl Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Automatically positioned to the address	A14NW (NE)	436	-	376806 410323
140	Points of Interest - Commercial Services Name: Webbing Winders Location: 12 Arthur Lane, Ainsworth, Bolton, BL2 5PW Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A17SE (NW)	635	8	375938 410581
140	Points of Interest - Commercial Services Name: Webbing Winders Location: 12 Arthur Lane, Ainsworth, Bolton, BL2 5PW Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A17SE (NW)	635	8	375938 410581
141	Points of Interest - Commercial Services Name: P Parket Motors Location: Rothwells Farm, Bradley Fold Road, Radcliffe, BL2 5QS Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7NE (SW)	753	8	375983 409501
142	Points of Interest - Commercial Services Name: Grace Overseas Location: 423 Bury and Bolton Road, Radcliffe, M26 4LJ Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A9SE (SE)	993	8	377114 409433
142	Points of Interest - Commercial Services Name: Grace Overseas Location: 423 Bury & Bolton Road, Radcliffe, Manchester, M26 4LJ Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A9SE (SE)	994	8	377114 409433
143	Points of Interest - Manufacturing and Production Name: Tank Location: BL2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A13NW (NW)	264	8	376166 410273
144	Points of Interest - Manufacturing and Production Name: Factory Location: BL2 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	375	8	376705 410372
145	Points of Interest - Manufacturing and Production Name: Quarry (Disused) Location: BL2 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A13NW (NW)	399	8	376113 410423
145	Points of Interest - Manufacturing and Production Name: Quarry (Disused) Location: BL2 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	408	8	376106 410428
146	Points of Interest - Manufacturing and Production Name: Wind Turbine Location: BL2 Category: Industrial Features Class Code: Energy Production Positional Accuracy: Positioned to an adjacent address or location	A17SE (NW)	639	8	376050 410677

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
147	Points of Interest - Manufacturing and Production Name: Tank Location: BL2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A18SE (NE)	661	8	376684 410742
148	Points of Interest - Manufacturing and Production Name: Tank Location: BL2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A18NW (N)	761	8	376239 410883
149	Points of Interest - Manufacturing and Production Name: Tank Location: BL2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A17SW (NW)	850	8	375617 410486
150	Points of Interest - Manufacturing and Production Name: Tank Location: M26 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A8SE (S)	885	8	376441 409248
151	Points of Interest - Public Infrastructure Name: Tip Location: BL2 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A18SW (NW)	574	8	376121 410643
152	Points of Interest - Public Infrastructure Name: Filter Bed Location: BL2 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A18SE (NE)	672	8	376705 410744
152	Points of Interest - Public Infrastructure Name: Filter Bed Location: BL2 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A18SE (NE)	676	8	376713 410745
153	Points of Interest - Public Infrastructure Name: Sluice Location: BL2 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	954	8	375491 410449
153	Points of Interest - Public Infrastructure Name: Sluice Location: BL2 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	957	8	375487 410449
154	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	207	8	376203 410221
154	Points of Interest - Recreational and Environmental Name: Playground Location: Tommy Lane, BL2 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A13NW (NW)	209	8	376202 410223

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
155	Areas of Adopted Green Belt Authority: Bury Metropolitan Borough Council Plan Name: Bury Unitary Development Plan Status: Adopted Plan Date: 29th August 1997	A13NE (S)	0	6	376402 410136

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Environment Agency - Head Office Salford City Council - Environmental Health Department Rochdale Metropolitan Borough Council - Environmental Health Department Blackburn with Darwen Borough Council - Environmental Health Department Bolton Metropolitan Borough Council - Environmental Health Department Bury Metropolitan Borough Council - Environmental Health Department	November 2023 October 2017 October 2017 September 2017 September 2017 September 2017	Annually Annual Rolling Update Annually Annual Rolling Update Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - North West Region	October 2023	Quarterly
Enforcement and Prohibition Notices Environment Agency - North West Region	March 2013	
Integrated Pollution Controls Environment Agency - North West Region	January 2009	
Integrated Pollution Prevention And Control Environment Agency - North West Region	January 2023	Quarterly
Local Authority Integrated Pollution Prevention And Control Salford City Council - Environmental Health Department Blackburn with Darwen Borough Council - Environmental Health Department Bury Metropolitan Borough Council - Environmental Health Department Bolton Metropolitan Borough Council - Environmental Health Department Rochdale Metropolitan Borough Council - Environmental Health Department	December 2020 February 2015 February 2015 July 2014 July 2014	Variable Variable Variable Variable Variable
Local Authority Pollution Prevention and Controls Salford City Council - Environmental Health Department Blackburn with Darwen Borough Council - Environmental Health Department Bury Metropolitan Borough Council - Environmental Health Department Rochdale Metropolitan Borough Council - Environmental Health Department Bolton Metropolitan Borough Council - Environmental Health Department	December 2020 February 2015 February 2015 July 2014 July 2014	Annual Rolling Update Not Applicable Not Applicable Annual Rolling Update Not Applicable
Local Authority Pollution Prevention and Control Enforcements Blackburn with Darwen Borough Council - Environmental Health Department Bury Metropolitan Borough Council - Environmental Health Department Bolton Metropolitan Borough Council - Environmental Health Department Rochdale Metropolitan Borough Council - Environmental Health Department Salford City Council - Environmental Health Department	February 2015 February 2015 July 2014 July 2014 March 2015	Variable Variable Variable Variable Variable
Nearest Surface Water Feature Ordnance Survey	November 2023	
Pollution Incidents to Controlled Waters Environment Agency - North West Region	January 2000	
Prosecutions Relating to Authorised Processes Environment Agency - North West Region	July 2015	
Prosecutions Relating to Controlled Waters Environment Agency - North West Region	March 2013	
Registered Radioactive Substances Environment Agency - North West Region Environment Agency - Head Office	June 2016 May 2023	As notified Quarterly
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	April 2012	
River Quality Chemistry Sampling Points Environment Agency - Head Office	April 2012	

Agency & Hydrological	Version	Update Cycle
Substantiated Pollution Incident Register Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	October 2023 October 2023 October 2023	Quarterly Quarterly Quarterly
Water Abstractions Environment Agency - North West Region	October 2023	Quarterly
Water Industry Act Referrals Environment Agency - North West Region	October 2017	
Groundwater Vulnerability Map Environment Agency - Head Office	June 2018	As notified
Bedrock Aquifer Designations Environment Agency - Head Office	January 2018	As notified
Superficial Aquifer Designations Environment Agency - Head Office	January 2018	As notified
Source Protection Zones Environment Agency - Head Office	September 2022	Bi-Annually
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	August 2023	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	August 2023	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	February 2023	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	August 2023	Quarterly
Flood Defences Environment Agency - Head Office	August 2022	Quarterly
OS Water Network Lines Ordnance Survey	October 2023	Quarterly
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water Suitability Environment Agency - Head Office	February 2016	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	As notified

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	November 2002	As notified
Historical Landfill Sites Environment Agency - Head Office	July 2023	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - North West Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	July 2023 July 2023 July 2023	Quarterly Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	January 2023 January 2023 January 2023	Quarterly Quarterly Quarterly
Local Authority Landfill Coverage Blackburn with Darwen Borough Council Bolton Metropolitan Borough Council Bury Metropolitan Borough Council Rochdale Metropolitan Borough Council - Environmental Health Department Salford City Council - Environmental Health Department	February 2003 February 2003 February 2003 February 2003 February 2003	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Blackburn with Darwen Borough Council Bolton Metropolitan Borough Council Bury Metropolitan Borough Council Rochdale Metropolitan Borough Council - Environmental Health Department Salford City Council - Environmental Health Department	October 2018 October 2018 October 2018 October 2018 October 2018	
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	
Registered Landfill Sites Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	March 2006 March 2006 March 2006	Not Applicable Not Applicable Not Applicable
Registered Waste Transfer Sites Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	April 2018 April 2018 April 2018	
Registered Waste Treatment or Disposal Sites Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	June 2015 June 2015 June 2015	

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	March 2023	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements Blackburn with Darwen Borough Council Bolton Metropolitan Borough Council - Planning Department Bury Metropolitan Borough Council Salford City Council Rochdale Metropolitan Borough Council	February 2016 February 2016 February 2016 June 2016 May 2023	Variable Variable Variable Variable Variable
Planning Hazardous Substance Consents Blackburn with Darwen Borough Council Bolton Metropolitan Borough Council - Planning Department Bury Metropolitan Borough Council Rochdale Metropolitan Borough Council Salford City Council	February 2016 February 2016 February 2016 February 2016 June 2016	Variable Variable Variable Variable Variable
Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	As notified
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	December 2015	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	June 2023	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB) Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011 November 2020	As notified
Coal Mining Affected Areas The Coal Authority - Property Searches	February 2023	Annual Rolling Update
Mining Instability Ove Arup & Partners	June 1998	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	April 2020	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	October 2023	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	October 2023	Annually

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	October 2023	Quarterly
Fuel Station Entries Catalist Ltd - Experian	August 2023	Quarterly
Gas Pipelines National Grid	October 2021	Bi-Annually
Points of Interest - Commercial Services PointX	December 2023	Quarterly
Points of Interest - Education and Health PointX	December 2023	Quarterly
Points of Interest - Manufacturing and Production PointX	December 2023	Quarterly
Points of Interest - Public Infrastructure PointX	December 2023	Quarterly
Points of Interest - Recreational and Environmental PointX	December 2023	Quarterly
Underground Electrical Cables National Grid	February 2023	Bi-Annually

Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	October 2023	Bi-Annually
Areas of Adopted Green Belt Blackburn with Darwen Borough Council Bolton Metropolitan Borough Council Bury Metropolitan Borough Council Rochdale Metropolitan Borough Council Salford City Council	August 2023 August 2023 August 2023 August 2023 August 2023	Quarterly Quarterly Quarterly Quarterly Quarterly
Areas of Unadopted Green Belt Blackburn with Darwen Borough Council Bolton Metropolitan Borough Council Bury Metropolitan Borough Council Rochdale Metropolitan Borough Council Salford City Council	August 2023 August 2023 August 2023 August 2023 August 2023	Quarterly Quarterly Quarterly Quarterly Quarterly
Areas of Outstanding Natural Beauty Natural England	November 2023	Bi-Annually
Environmentally Sensitive Areas Natural England	August 2023	
Forest Parks Forestry Commission	May 2023	Not Applicable
Local Nature Reserves Natural England	August 2023	Bi-Annually
Marine Nature Reserves Natural England	October 2023	Bi-Annually
National Nature Reserves Natural England	August 2023	Bi-Annually
National Parks Natural England	February 2018	Bi-Annually
Nitrate Sensitive Areas Natural England	April 2023	Not Applicable
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA) Environment Agency - Head Office	April 2016 March 2023	Bi-Annually
Ramsar Sites Natural England	October 2023	Bi-Annually
Sites of Special Scientific Interest Natural England	November 2023	Bi-Annually
Special Areas of Conservation Natural England	October 2023	Bi-Annually
Special Protection Areas Natural England	October 2023	Bi-Annually

A selection of organisations who provide data within this report

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

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	Bury Metropolitan Borough Council - Environmental Health Department 3 Knowsley Place, Duke Street, Bury, Lancashire, BL9 0EJ	Telephone: 0161 253 5000 Fax: 0161 253 5563 Website: www.bury.gov.uk
4	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
5	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	Bury Metropolitan Borough Council Craig House, Bank Street, Bury, Lancashire, BL9 0DN	Telephone: 0161 253 5000 Fax: 0161 705 5290 Website: www.bury.gov.uk
7	The Coal Authority - Property Searches 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
8	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
9	Bolton Metropolitan Borough Council Town Hall, The Wellsprings, Bolton, Lancashire, BL1 1US	Telephone: 01204 522311 Fax: 01204 392808 Website: www.bolton.gov.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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

Geology 1:50,000 Maps Legends

Artificial Ground and Landslip

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

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
		Faults		

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Not Supplied - Holocene
	TILLD	Till, Devensian	Diamicton	Not Supplied - Devensian
	GFDUD	Glaciofluvial Deposits, Devensian	Sand and Gravel	Not Supplied - Devensian
	GLLDD	Glaciolacustrine Deposits, Devensian	Clay and Silt	Not Supplied - Devensian

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	PMCM	Pennine Middle Coal Measures Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	PMCM	Pennine Middle Coal Measures Formation	Sandstone	Not Supplied - Westphalian
	PR	Peel Hall Rock	Sandstone	Not Supplied - Westphalian
	OL	Old Lawrence Rock	Sandstone	Not Supplied - Westphalian
	PLCM	Pennine Lower Coal Measures Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	CAR	Cannel Rock (South Lancashire)	Sandstone	Not Supplied - Westphalian
	PLCM	Pennine Lower Coal Measures Formation	Sandstone	Not Supplied - Westphalian
	TRBR	Trencherbone Rock	Sandstone	Not Supplied - Westphalian
	MLRS	Milnrow Sandstone	Sandstone	Not Supplied - Westphalian
	HER	Helpet Edge Rock	Sandstone	Not Supplied - Westphalian
		Rock Segments		



Geology 1:50,000 Maps

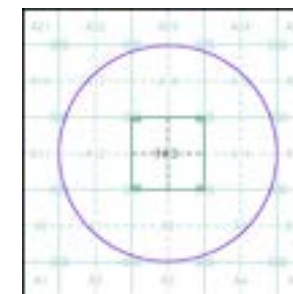
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published 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: 2010
Bedrock Geology: Available
Superficial Geology: Not Available
Artificial Geology: Not Available
Faults: Not Supplied
Landslip: Not Available
Rock Segments: Not Supplied

Geology 1:50,000 Maps - Slice A



Order Details:

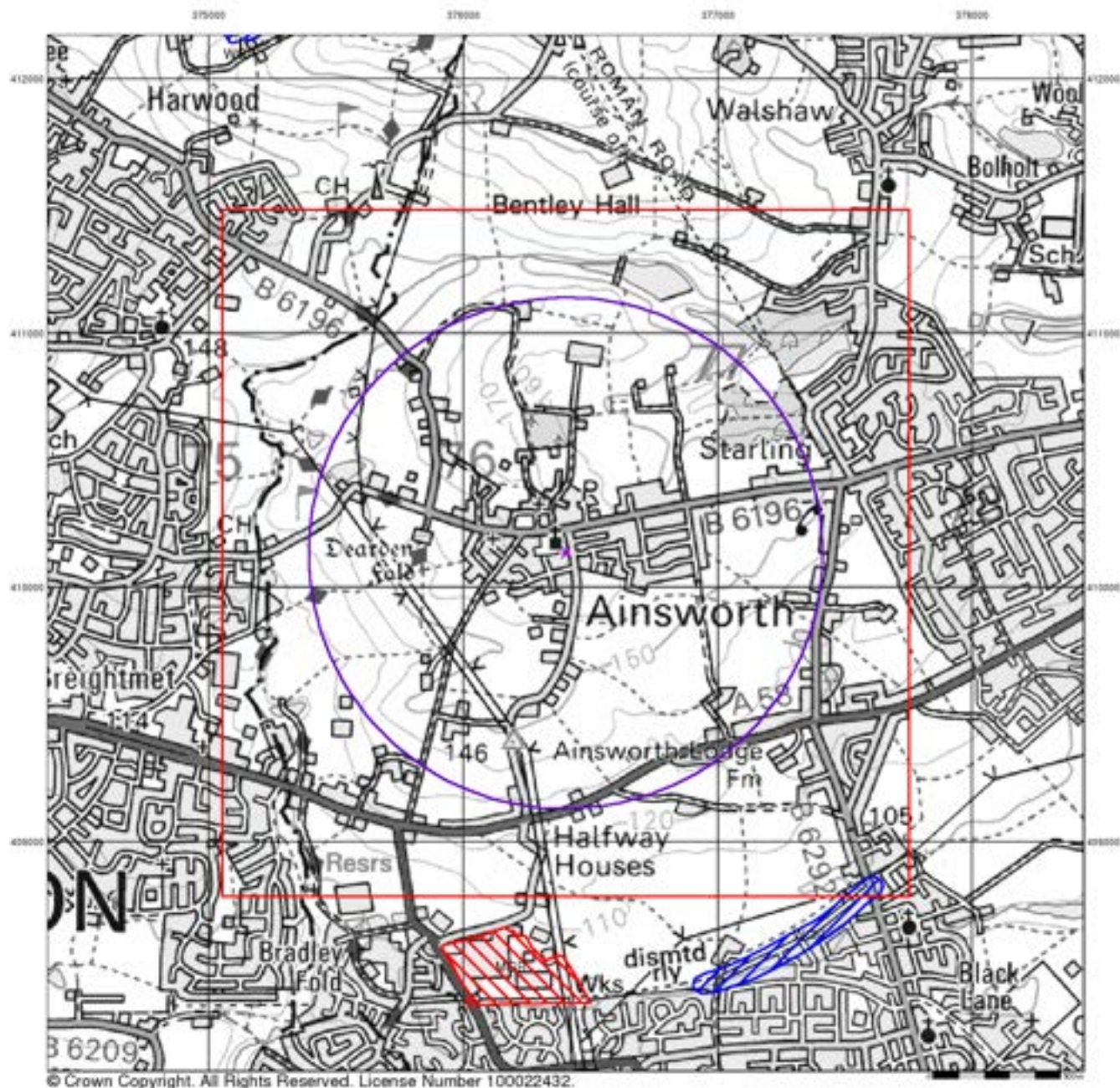
Order Number: 328418747_1_1
Customer Reference: LKC 23 1699
National Grid Reference: 376400, 410140
Slice: A
Site Area (Ha): 0.02
Search Buffer (m): 1000

Site Details:

Bradley Fold Road, Ainsworth, Bolton, BL2 5QD



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



Artificial Ground and Landslip

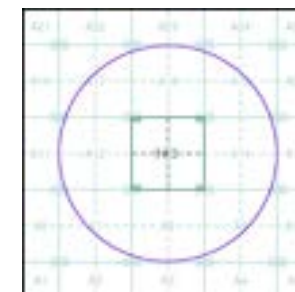
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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

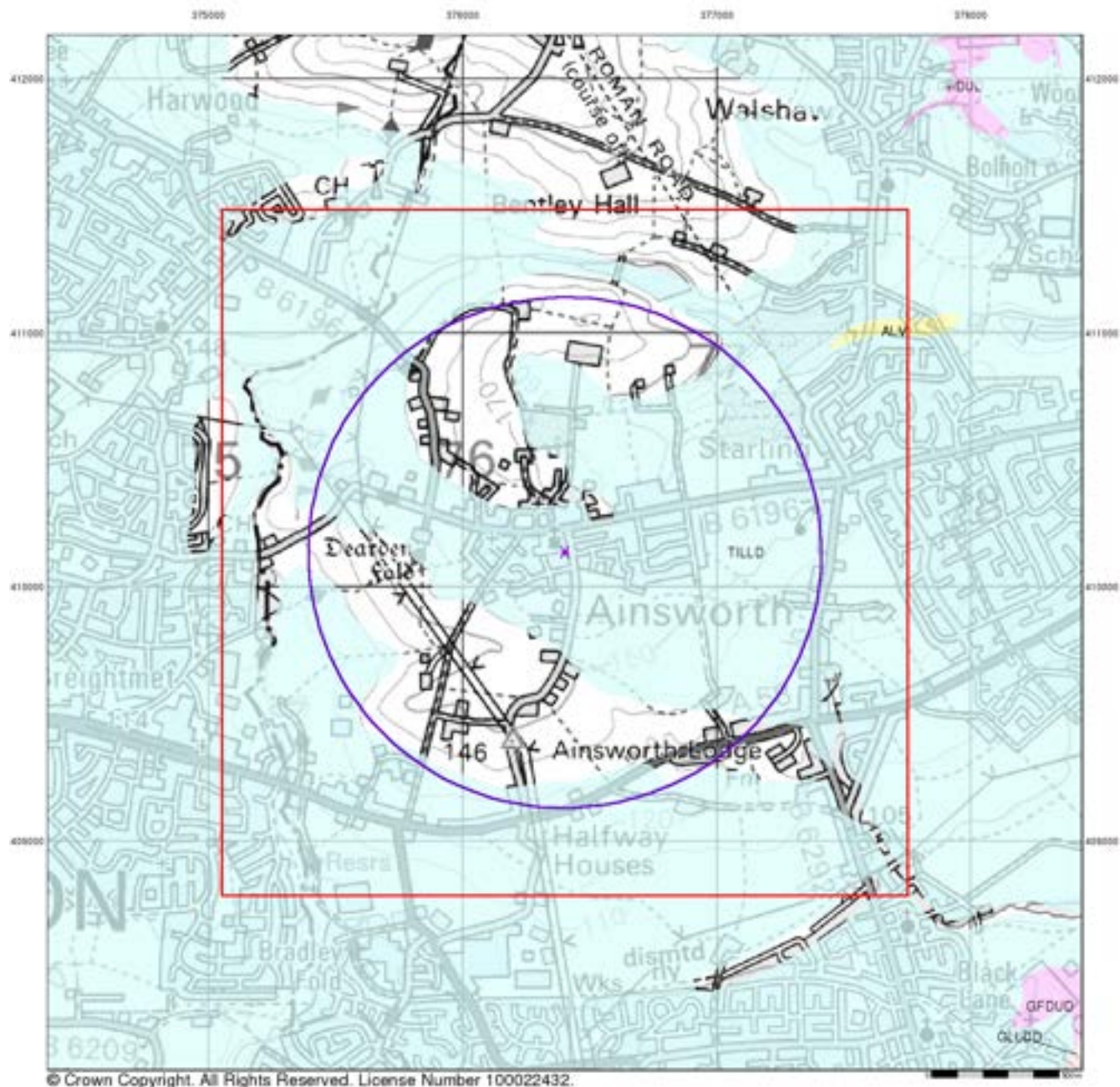
Order Number: 328418747_1_1
 Customer Reference: LKC 23 1699
 National Grid Reference: 376400, 410140
 Slice: A
 Site Area (Ha): 0.02
 Search Buffer (m): 1000

Site Details:

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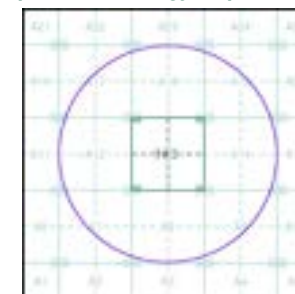
Superficial Geology

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

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

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

Superficial Geology Map - Slice A



Order Details:

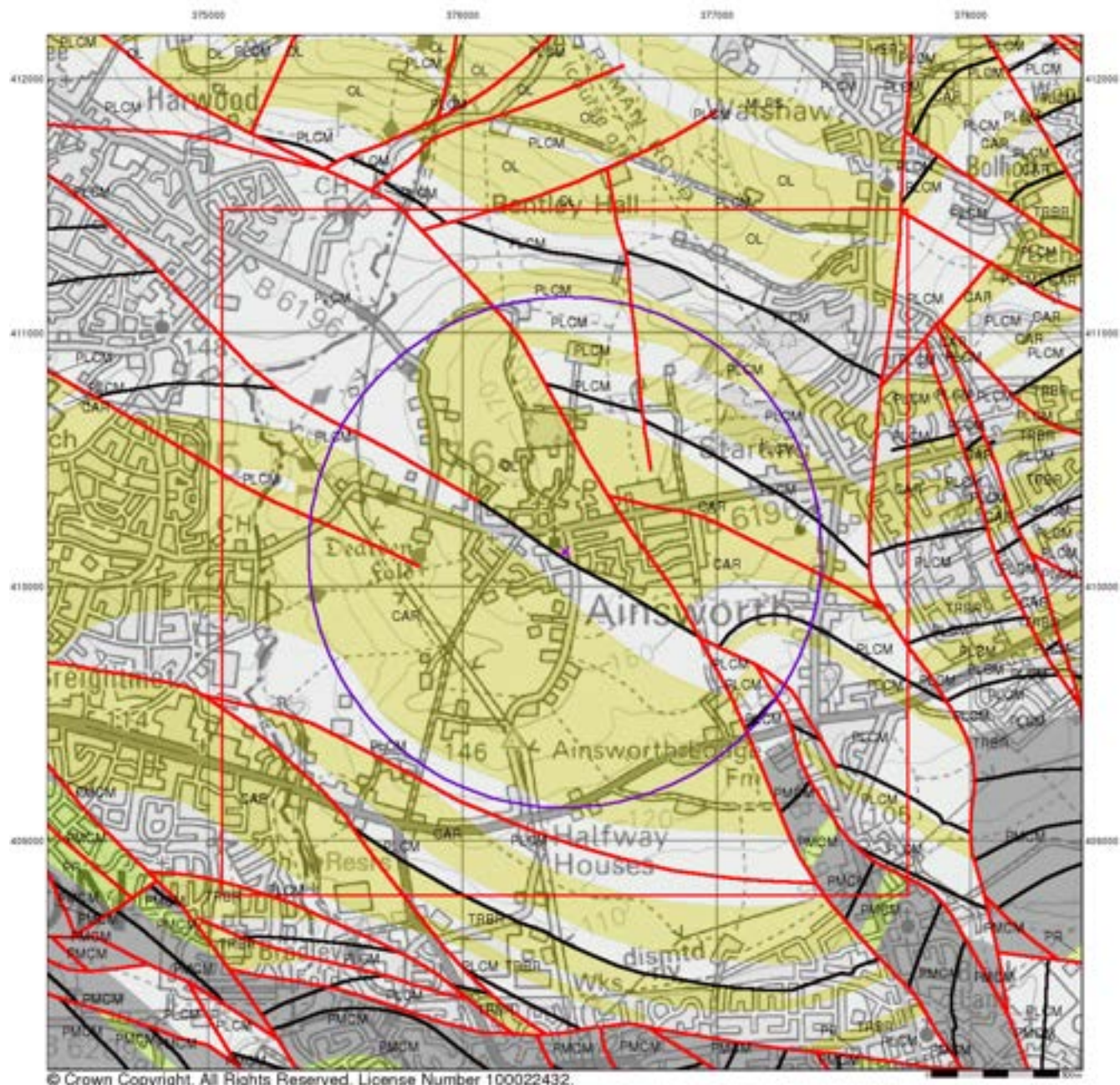
Order Number: 328418747_1_1
 Customer Reference: LKC 23 1699
 National Grid Reference: 376400, 410140
 Slice: A
 Site Area (Ha): 0.02
 Search Buffer (m): 1000

Site Details:

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



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Bedrock and Faults

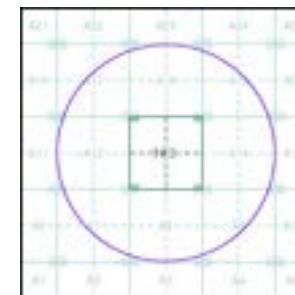
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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:

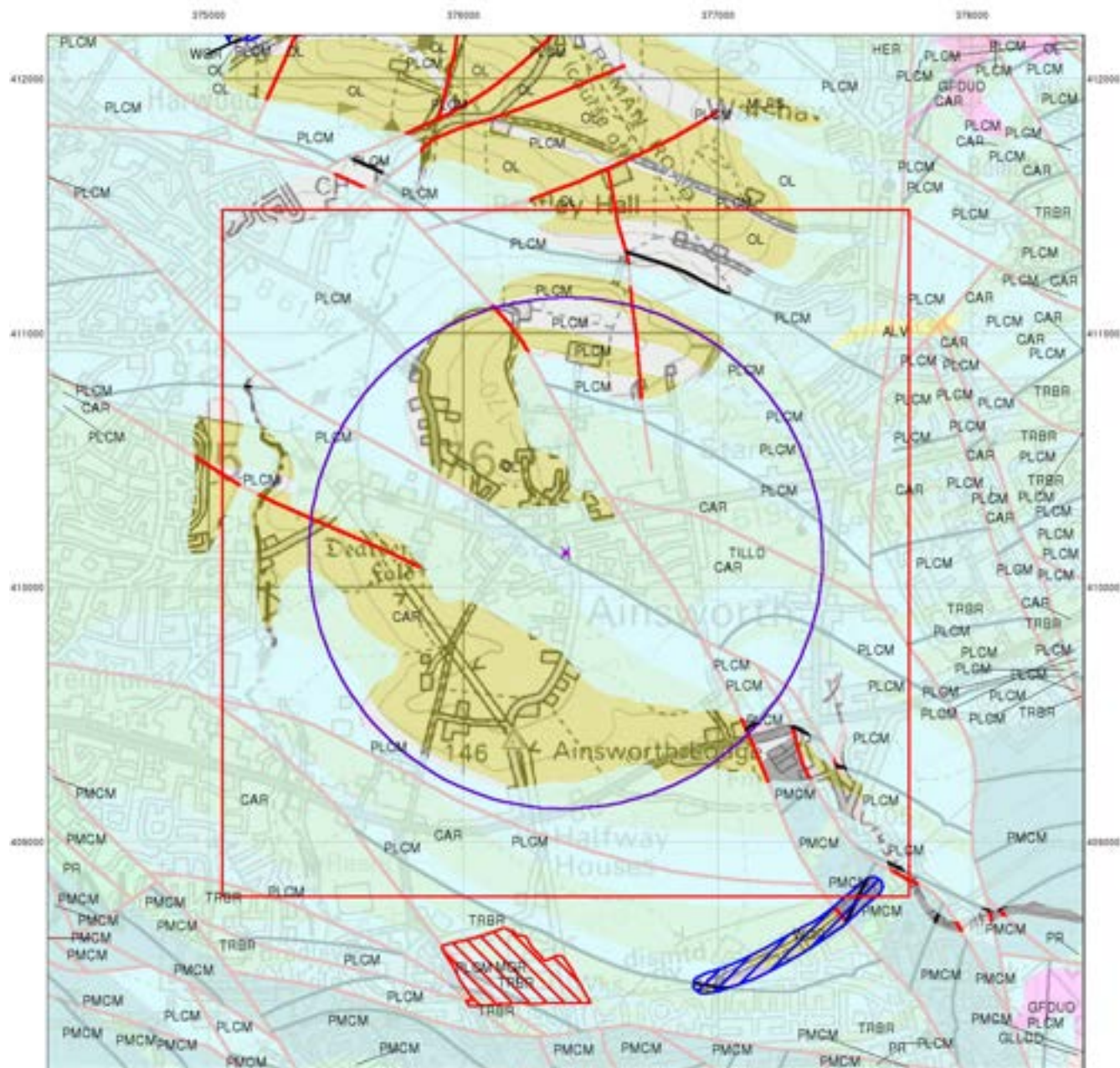
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 Customer Reference: LKC 23 1699
 National Grid Reference: 376400, 410140
 Slice: A
 Site Area (Ha): 0.02
 Search Buffer (m): 1000

Site 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.

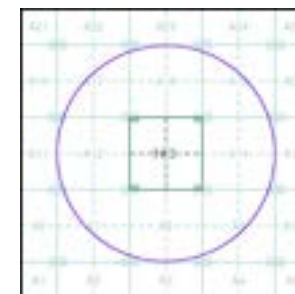
Additional Information

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

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:

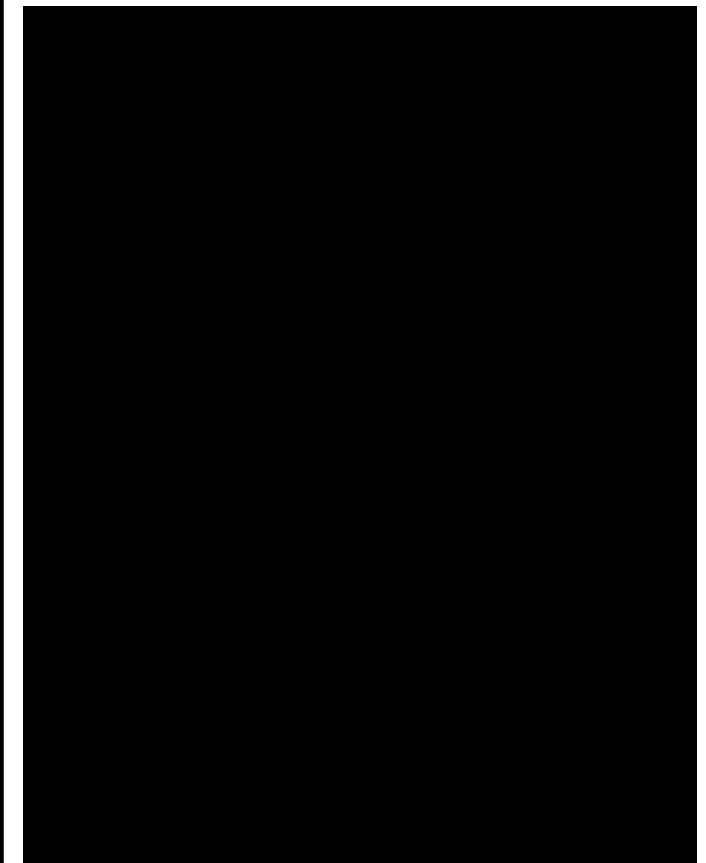
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Site Area (Ha): 0.02
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Site Details:

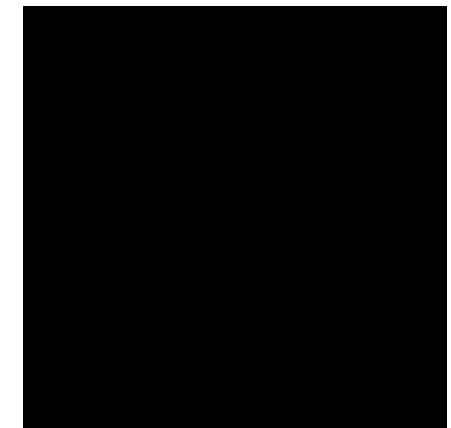
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Fax: 0844 844 9951
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Site Sensitivity Map - Segment A13

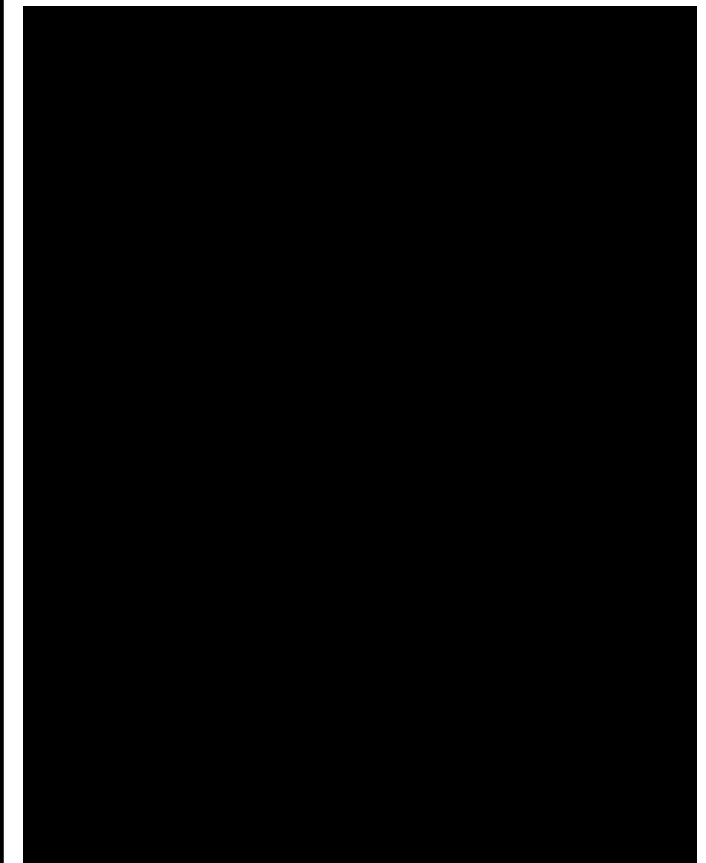


Order Details

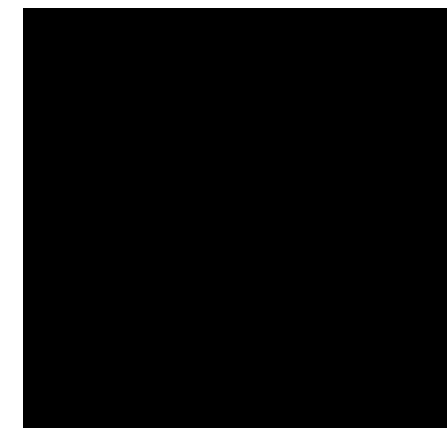
Order Number: 328418747_1_1
Customer Ref: LKC 23 1699
National Grid Reference: 376400, 410140
Slice: A
Site Area (Ha): 0.02
Plot Buffer (m): 100

Site Details

Bradley Fold Road, Ainsworth, Bolton, BL2 5QD



Site Sensitivity Map - Slice A



Order Details

Order Number: 328418747_1_1
Customer Ref: LKC 23 1699
National Grid Reference: 376400, 410140
Slice: A
Site Area (Ha): 0.02
Search Buffer (m): 1000

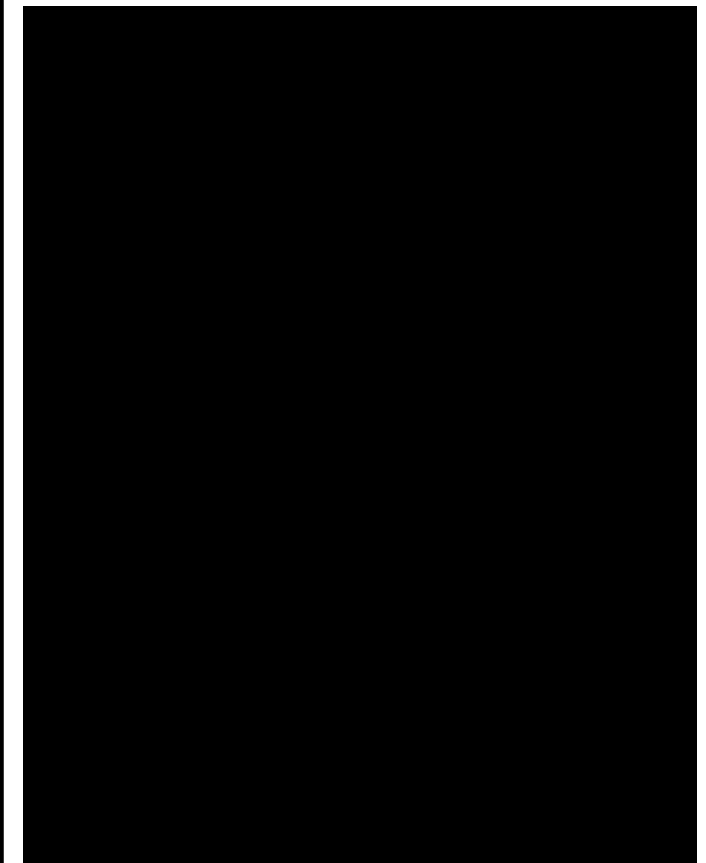
Site Details

Bradley Fold Road, Ainsworth, Bolton, BL2 5QD

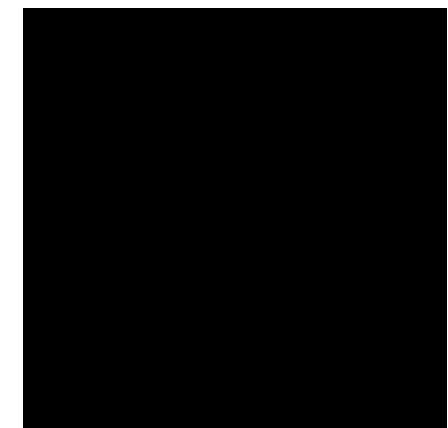


Flood Map - Slice A

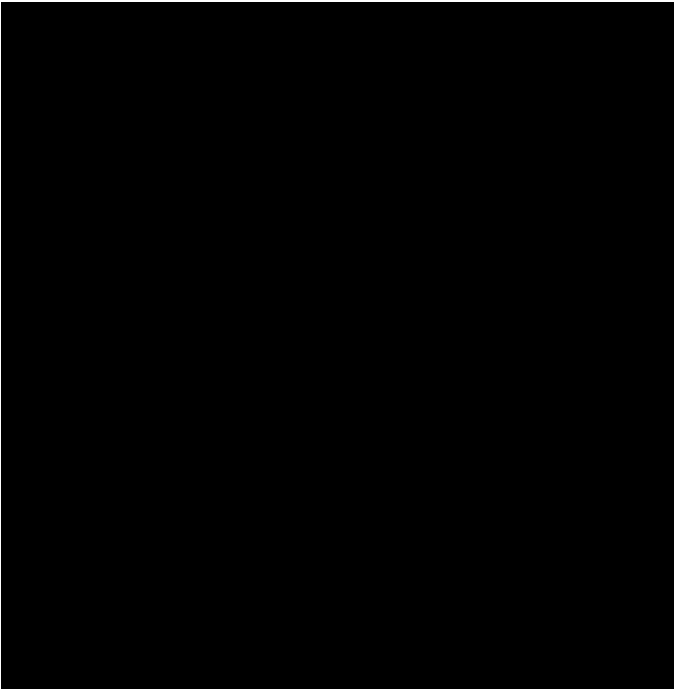


Order Details

Order Number: 328418747_1_1
Customer Ref: LKC 23 1699
National Grid Reference: 376400, 410140
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Search Buffer (m): 1000

Site Details

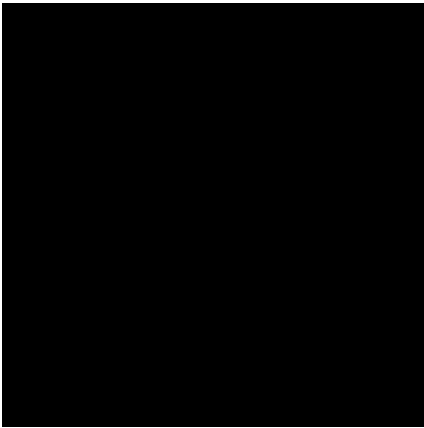
Bradley Fold Road, Ainsworth, Bolton, BL2 5QD



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

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

Borehole Map - Slice A



Order Details

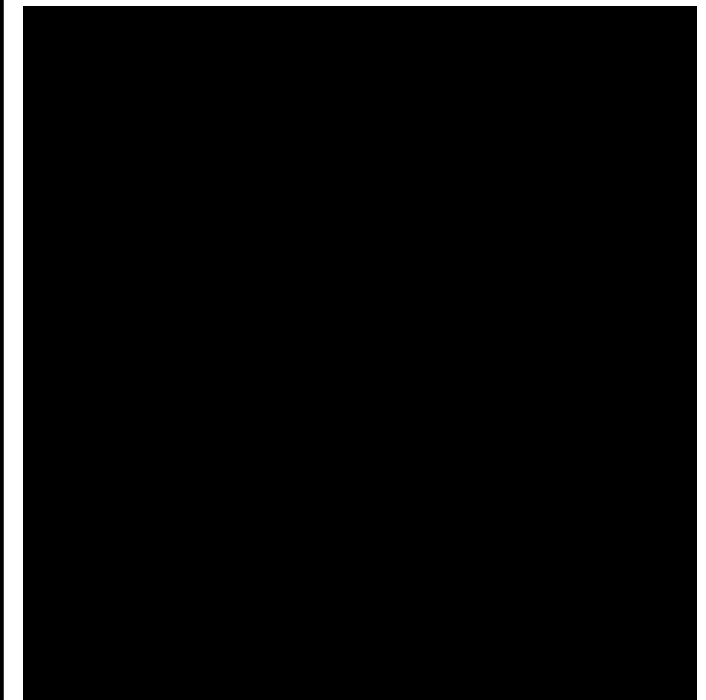
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National Grid Reference:	376400, 410140
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Search Buffer (m):	1000

Site Details

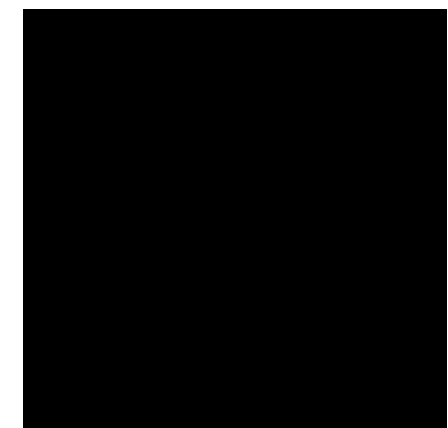
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Fax:	0844 844 9951
Web:	www.envirocheck.co.uk



OS Water Network Map - Slice A

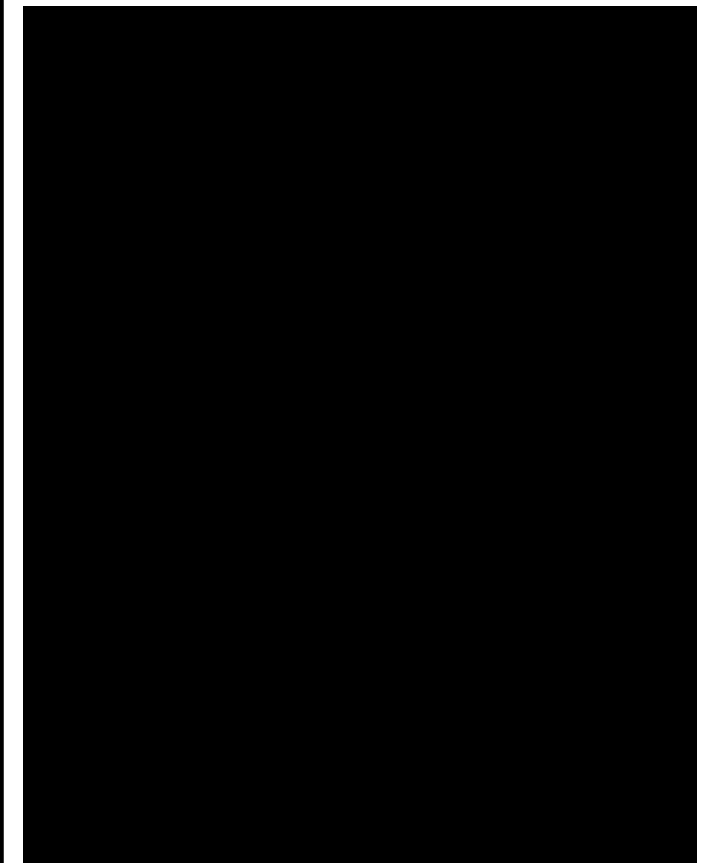


Order Details

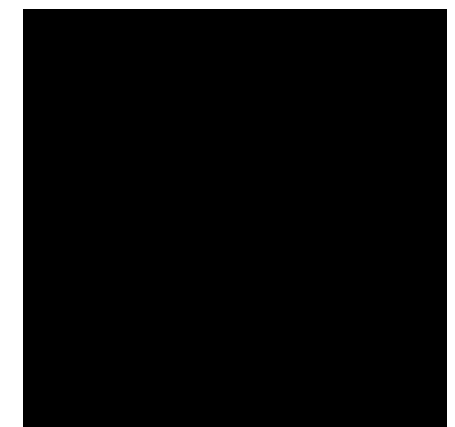
Order Number: 328418747_1_1
Customer Ref: LKC 23 1699
National Grid Reference: 376400, 410140
Slice: A
Site Area (Ha): 0.02
Search Buffer (m): 1000

Site Details

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EA/NRW Suitability Map - Slice A



Order Details

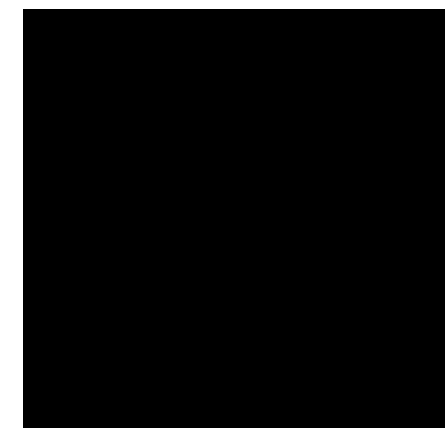
Order Number: 328418747_1_1
Customer Ref: LKC 23 1699
National Grid Reference: 376400, 410140
Slice: A
Site Area (Ha): 0.02
Search Buffer (m): 1000

Site Details

Bradley Fold Road, Ainsworth, Bolton, BL2 5QD



Estimated Soil Chemistry Arsenic - Slice A

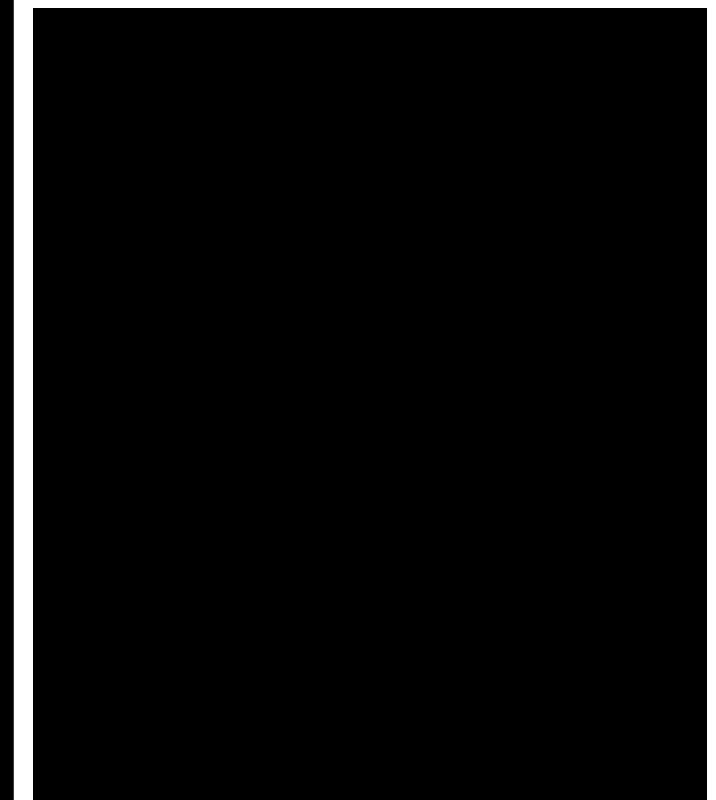


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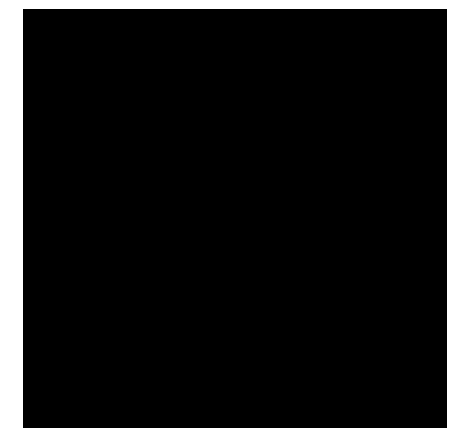
Order Details: 328418747_1_1
Customer Ref: LKC 23 1699
National Grid Reference: 376400, 410140
Slice: A
Site Area (Ha): 0.02
Search Buffer (m): 1000

Site Details

Bradley Fold Road, Ainsworth, Bolton, BL2 5QD



Estimated Soil Chemistry Cadmium - Slice A

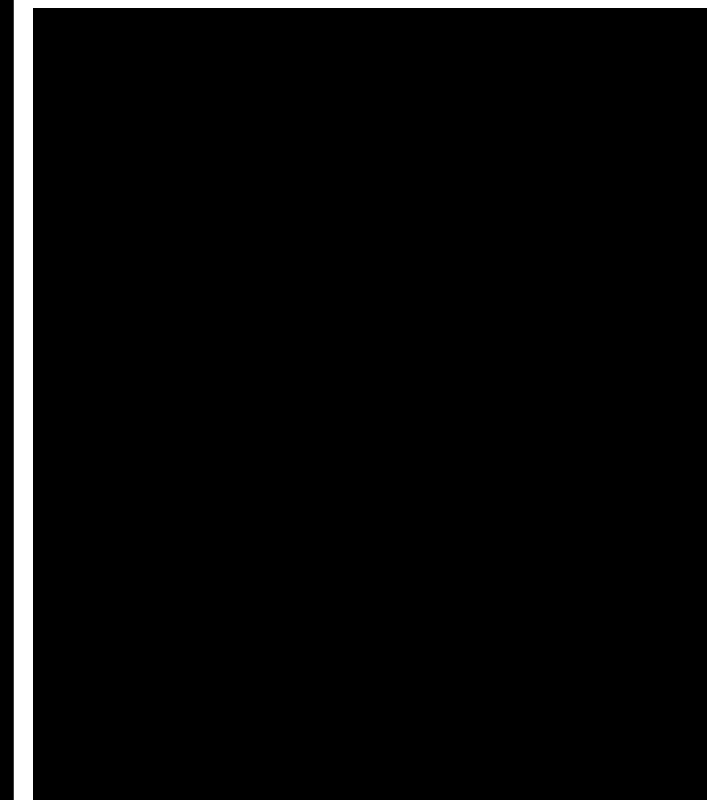


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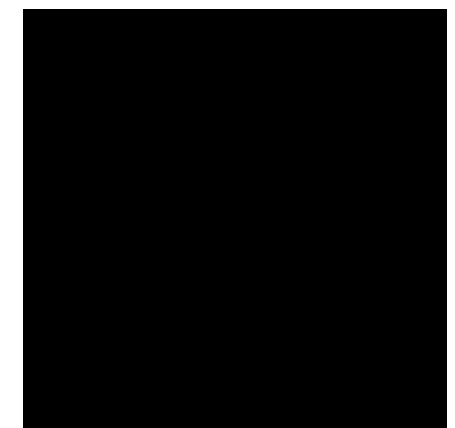
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Customer Ref: LKC 23 1699
National Grid Reference: 376400, 410140
Slice: A
Site Area (Ha): 0.02
Search Buffer (m): 1000

Site Details

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Estimated Soil Chemistry Chromium - Slice A

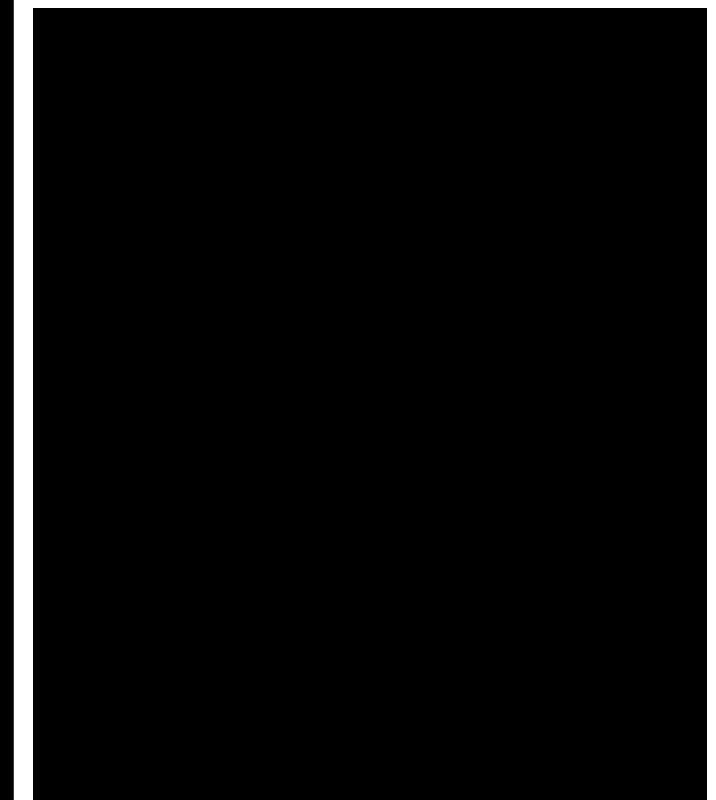


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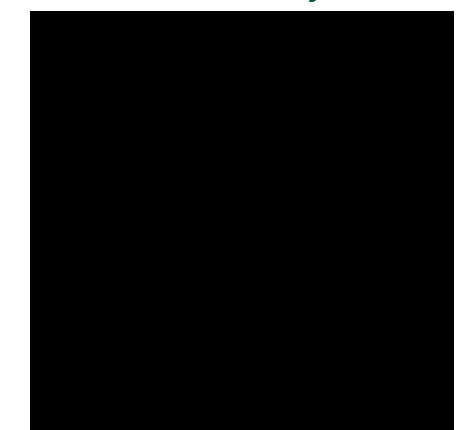
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Customer Ref: LKC 23 1699
National Grid Reference: 376400, 410140
Slice: A
Site Area (Ha): 0.02
Search Buffer (m): 1000

Site Details

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Estimated Soil Chemistry Lead - Slice A

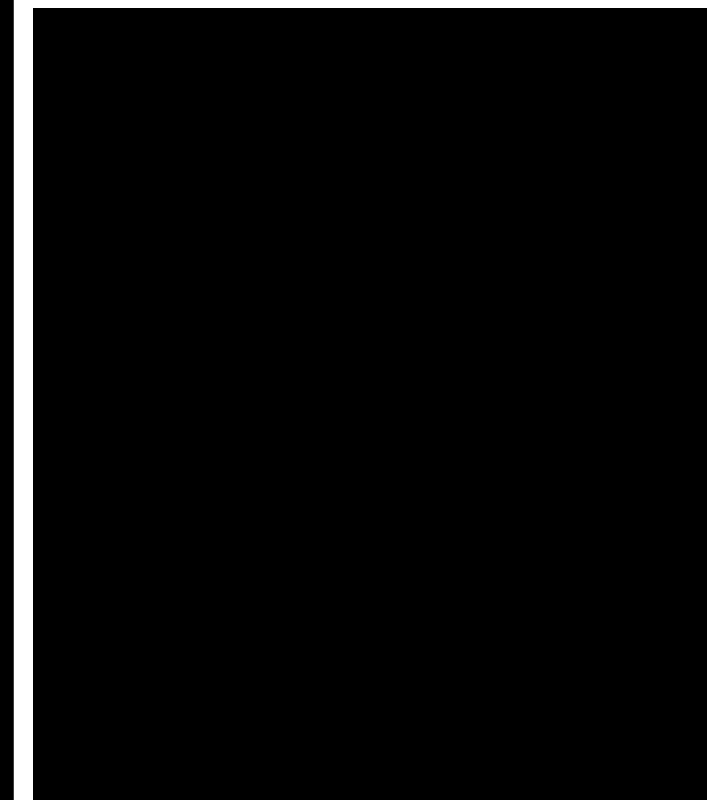


Order Details

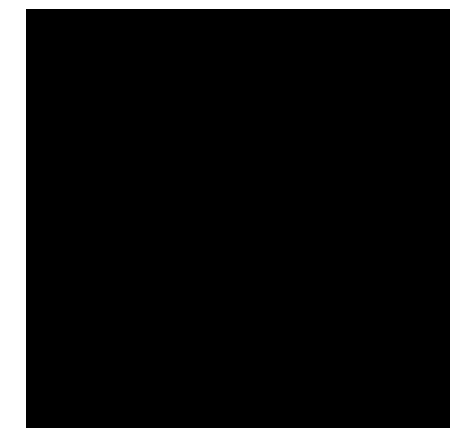
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Customer Ref: LKC 23 1699
National Grid Reference: 376400, 410140
Slice: A
Site Area (Ha): 0.02
Search Buffer (m): 1000

Site Details

Bradley Fold Road, Ainsworth, Bolton, BL2 5QD



Estimated Soil Chemistry Nickel - Slice A

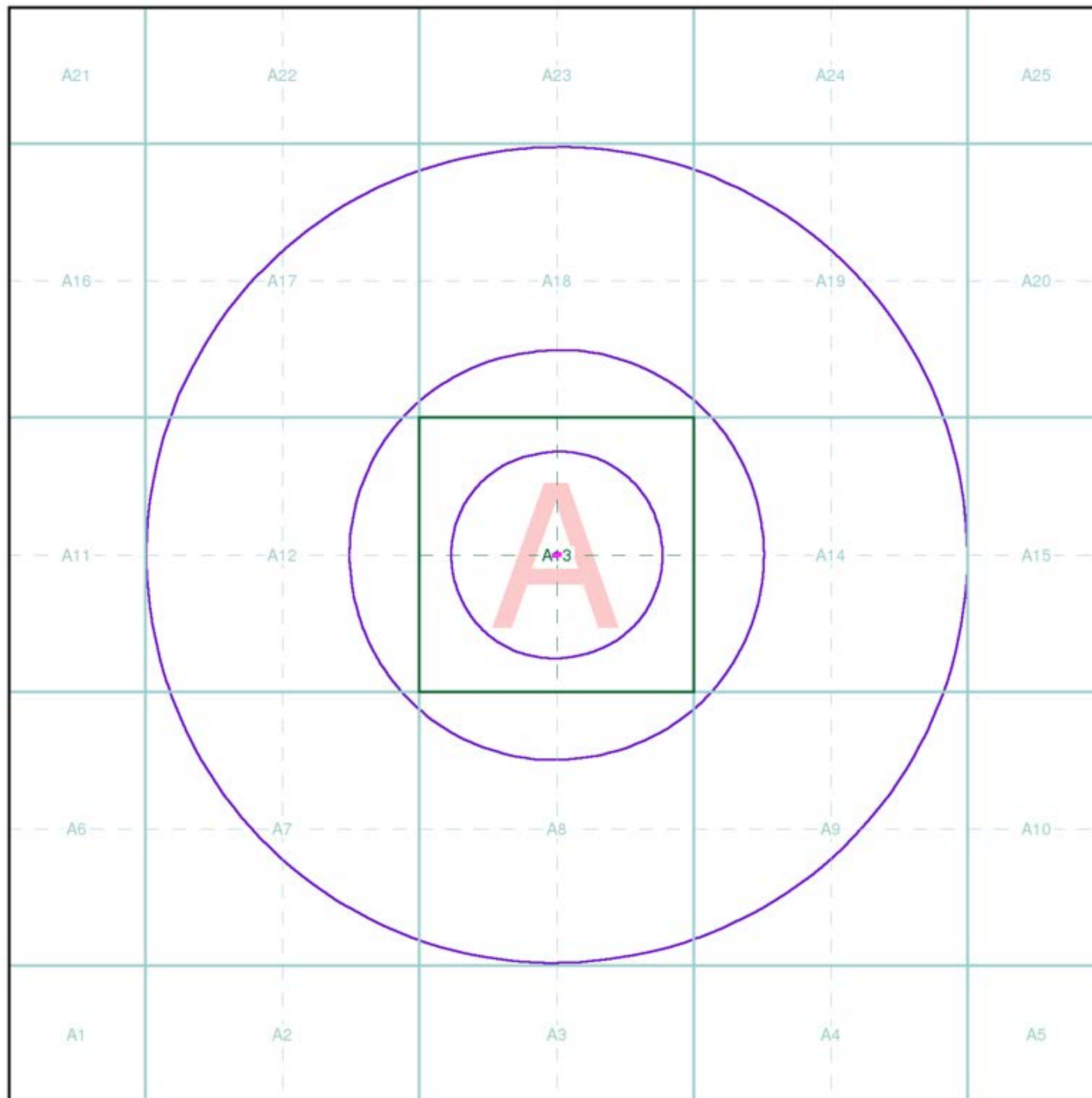


Order Details

Order Details: 328418747_1_1
Customer Ref: LKC 23 1699
National Grid Reference: 376400, 410140
Slice: A
Site Area (Ha): 0.02
Search Buffer (m): 1000

Site Details

Bradley Fold Road, Ainsworth, Bolton, BL2 5QD



LK GROUP

Index Map

For ease of identification, your site and buffer have been split into Slices, Segments and Quadrants. These are illustrated on the Index Map opposite and explained further below.

Slice
Each slice represents a 1:10,000 plot area (2.7km x 2.7km) for your site and buffer. A large site and buffer may be made up of several slices (represented by a red outline), that are referenced by letters of the alphabet, starting from the bottom left corner of the slice "grid". This grid does not relate to National Grid lines but is designed to give best fit over the site and buffer.

Segment
A segment represents a 1:2,500 plot area. Segments that have plot files associated with them are shown in dark green, others in light blue. These are numbered from the bottom left hand corner within each slice.

Quadrant
A quadrant is a quarter of a segment. These are labelled as NW, NE, SW, SE and are referenced in the datasheet to allow features to be quickly located on plots. Therefore a feature that has a quadrant reference of A7NW will be in Slice A, Segment 7 and the NW Quadrant.

A selection of organisations who provide data within this report:



Envirocheck reports are compiled from 136 different sources of data.

Client Details

L Consult, LK Consult Ltd, Unit 29 Eton Business Park,
Eton Hill Road, Radcliffe, Greater Manchester, M26 2ZS

Order Details

Order Number: 328418747_1_1
Customer Ref: LKC 23 1699
National Grid Reference: 376400, 410140
Site Area (Ha): 0.02
Search Buffer (m): 1000

Site Details

Bradley Fold Road, Ainsworth, Bolton, BL2 5QD

Full Terms and Conditions can be found on the following link:
<http://www.landmarkinfo.co.uk/Terms/Show/515>



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Web: www.envirocheck.co.uk

Appendix C – Zetica UXO Unexploded Bomb Risk Map

UNEXPLODED BOMB RISK MAP



SITE LOCATION

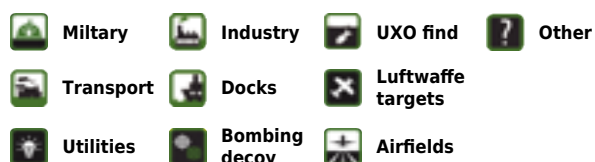
Location: BL2 5QD,
Map Centre: 376433,410122



This map principally indicates a hazard from Unexploded Bombs (UXB) due to WWII bombardment. Other sources of Unexploded Ordnance (UXO) may be present. It should be noted that this map does not represent UXO risk and should not be reported as such when reproduced.

LEGEND

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



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

This map indicates the potential for UXBs to be present because of World War Two (WWII) bombing. It can be incorporated into a technical report, such as a Phase 1 Desk Study, or similar document as an indication of the potential for UXO encounter on a Site. Other sources of UXO may also be indicated, although note that these are not comprehensive and more detailed research is required to confirm their presence.

What if my Site is in a moderate or high density area?

We typically recommend that a detailed UXO desk study and risk assessment is undertaken for sites in an area with a moderate or high bombing density. Additionally, if your site is in close proximity to a strategic target, military establishment, airfield or bombing decoy, then [additional detailed research](#) is recommended.

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

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

If you are unsure whether other sources of UXO may be present, you can request one of our [pre-desk study assessments \(PDSA\)](#) by emailing a site boundary and location to uxo@zetica.com.

You should never plan site work or undertake a risk assessment using these maps alone. More detail is required, to include an assessment of the likelihood of a source of UXO hazard from other military activity not reflected on these maps.

If I have any questions, who do I contact?

tel: +44 (0) 1993 886682 email: uxo@zetica.com web: www.zeticauxo.com

The information in this UXB risk map is derived from a range of sources and should be used with the [accompanying notes on our website](#).

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

Appendix D – Gas Monitoring Results



EQUIPMENT¹

ATMOSPHERIC / GROUND CONDITIONS

[illegible]

SITE	C086 Delph Lodge
DATE	31-Jan-2005
OFFICER/S	CJC



BURY MBC
LANDFILL GAS MONITORING RECORD
SHEET 1 OF 1

EQUIPMENT ¹		
Instrument / Model Type	Serial Number	Comments
Geotechnical Instruments GA2000	5029	Serviced, calibrated & gas checked.
Gas Data GF60	64	Operating normally.
Geo. Inst. Dip & Temp Meter	R78139	Operating normally.

ATMOSPHERIC / GROUND CONDITIONS	
Weather Conditions	Ground Conditions
Cold, Drizzle, Windy	Soggy

Atmospheric Pressure Trend on Site: Steady

Atmospheric Pressure (Prev 72hrs): Falling

Borehole ID	Date/Time	CH ₄ (% v/v)	CO ₂ (% v/v)	O ₂ (% v/v)	Peak CH ₄ (% v/v)	% of Lower Explosive Limit ²	CO Pod (ppm)	H ₂ S Pod (ppm)	Balance (%)	Barometric Pressure (mb)	Relative Pressure (mb)	External Flow ³ (l/hr)	Standing Water Level (mbgl)	Installation Base Dip (mbgl)	Leachate Temp (°C) & Depth (mbgl)
DLBH0008	31/01/2005 14:25	0.0	0.1	20.9	0.0	0	1	0	79.0	1009	2.0	NM	1.33	13.85	9.0 @ 12m
DLBH0009	31/01/2005 14:32	0.0	6.1	6.9	0.0	0	0	0	87.0	1009	0.4	NM	4.56	7.85	8.8 @ 7m
DLBH0002	31/01/2005 14:41	1.4	2.0	0.0	1.4	28	0	0	96.6	1009	0.0	ND	5.53	13.10	9.6 @ 12m
DLBH0013	31/01/2005 14:48	10.9	2.6	1.0	10.8	218	1	0	85.5	1008	2.6	0.6	5.60	9.60	9.3 @ 8m
DLBH0014	31/01/2005 14:59	0.0	4.7	15.3	0.0	0	0	0	80.0	1009	2.5	NM	2.50	7.80	8.5 @ 7m
DLBH0005	31/01/2005 15:06	0.0	0.1	20.8	0.0	0	0	0	79.1	1008	-10.0	NM	6.92	14.90	9.4 @ 13.9
DLBH0012	31/01/2005 15:11	0.0	4.1	12.4	0.0	0	2	0	83.5	1008	2.3	NM	5.71	14.30	9.0 @ 13m
DLBH0011	31/01/2005 15:16	11.4	0.7	0.0	11.5	228	0	0	87.9	1008	1.6	0.6	5.95	9.10	9.5 @ 8m
DLBH0004	31/01/2005 15:20	5.9	3.5	0.1	6.0	118	2	0	90.5	1008	2.3	ND	6.50	6.50	NM
DLBH0003	31/01/2005 15:24	0.0	0.3	20.8	0.0	0	0	0	78.9	1008	2.4	NM	7.18	9.30	9.6 @ 8m
DLBH0010	31/01/2005 15:28	0.0	2.4	18.6	0.0	0	0	0	79.0	1009	1.9	NM	5.53	8.70	9.7 @ 7m
DLBH0006	31/01/2005 15:33	0.0	0.5	20.6	0.0	0	0	0	78.9	1009	2.3	NM	7.20	7.60	9.4 @ 7.4
DLBH0007	31/01/2005 15:37	0.0	0.0	21.2	0.0	0	0	0	78.8	1008	0.0	NM	DRY	2.45	NM

ABBREVIATIONS				NOTES			
*1	Refer to Note 1		ppm	Parts per million	1. Equipment is serviced and checked as recommended by the manufacturer. Refer to calibration records and service certificates.		
ND	Not detected		mb	Millibars			
NR	Not recorded		ltr/hr	Litres per hour	2. CH4 is explosive between the range of 5 - 15% v/v. 100% lower explosive limit is equal to 5% v/v CH4.		
UR	Unable to record		°C	Degrees Celsius	3. Flow readings are based on a 5 minute average value where flow is detected (equipment range of +/- 12 ltr/hr)		
OS	Off recordable scale		mbgl	Metres below ground level	4. Monitoring is carried out in line with procedures set by Bury MBC. Refer to procedural documents		
N/A	Not applicable		LEL	Lower explosive limit in air	5. This sheet was last revised on 17 October 2003 by CJC.		
% v/v	Percentage volume by total volume		OEL	Occupational exposure limit			

Appendix E – Risk Evaluation

RISK EVALUATION

The method for risk evaluation is a qualitative method of interpreting the output from the risk estimation stage of the assessment, based on CIRIA 552⁸. It involves the classification of the:

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

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

Table A. Classification of Consequence

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

Table B. Classification of Probability.

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

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

Table C. Comparison of Consequence against Probability

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

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

Table D. Description of the Classification and Likely Action Required.

Where a very low risk is identified no specific remediation is required.

Where a low risk is identified, some form of remediation may be required depending on the pollutant linkage, the type and concentration of contaminants present and the proposed development.

Where there is a moderate/low risk is identified, an assessment will be undertaken to establish what category the pollutant linkage will fall into.

Where LKC identifies a moderate or higher risk, remediation or further investigation work is recommended.

Appendix F - References

¹ Environment Agency, October 2020, "Land contamination risk management (LCRM). How to assess and manage the risks from land contamination".

² Ministry of Housing, Communities and Local Government, July 2021, "National Planning Policy Framework".

³ Environment Agency, October 2020, "Land contamination risk management (LCRM). How to assess and manage the risks from land contamination".

⁴ DEFRA & Environment Agency, March 2002, "Potential Contaminants for the Assessment of Land", R&D Publication CLR 8.

⁵ Environment Agency, January 2009, "Updated technical background to the CLEA model", Science Report SC050021/SR3.

⁶ CIRIA, January 2001, "Contaminated land risk assessment. A guide to good practice", C552.

⁷ Health & Safety Executive, 1991, "Protection of Workers and the General Public during the Development of Contaminated Land", HSG66.

⁸ CIRIA, January 2001, "Contaminated land risk assessment. A guide to good practice", C552.

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