LK CONSULT LIMITED

PART OF THE LK GROUP

LAND AT MALT KILN LANE / LONGRIDGE ROAD CHIPPING

PRELIMINARY RISK ASSESSMENT

(PHASE 1 DESK STUDY)

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1 INTRODUCTION

1.1 Background

LK Consult Ltd (LKC) has been commissioned by 53N Bowland Ltd (e-mail dated 2nd May 2013) to carry out a Preliminary Risk Assessment (PRA) for land at Areas 1, 2, 3 and 5 Malt Kiln Lane, Chipping and Area 4, Longridge Road, Chipping. The PRA was undertaken in support of a future planning application to redevelop the site for a mixture of residential, commercial, allotment and public open space land uses.

According to guidance set out in CLR11[1], GPLC1-3[2] and the National Planning Policy Framework (NPPF)[3] a PRA with a site reconnaissance is required as a minimum to ascertain if there is a potential contamination risk.

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

1.2 Site Details

A summary of site settings is presented in Table 1-1. Figures 1 and 2 indicate the site location and boundary. Figures 3-1 to 3-5 indicate the proposed developments.

Location	Areas 1, 2, 3 and 5 are located off Malt Kiln Lane, Chipping National Grid Reference 361950E 443590N. Area 4 is located off Longridge Road, Chipping. National Grid Reference 362610E 443010N.
Area (approximate)	Area 1: 19,500m^2. Area 2: 7,700m^2. Area 3: 10,200m^2. Area 4: 1,490m^2. Area 5: 3,700m^2.
Topography	122m to 126 metres above ordnance datum (AOD). Site undulating with varying topographies.
Land Use	Site Area 1 is primarily hardstood with existing buildings across the majority of the site. Areas 2 to 5 are grassed areas and fields. Surrounding Area North: Fields and residential properties. East: Fields. South: Chipping village with residential properties and small shops. West: Fields.

Table 1-1: Summary of site details for land at Malt Kiln Lane/Longridge Road, Chipping.

[1] EA (2004). "Model Procedures for the Management of Land Contamination." R&D Publication CLR 11.
[2] EA (2010). "Guiding principles for land Contamination." GPLC1-3.
[3] DCL (2012). "National Planning Policy Framework." Department of Communities and Local Government. March 2012.

Proposed Development	Area 1: The existing mill to be converted into a three storey, 18-room hotel with restaurant and pub. The existing barn would be turned into seven holiday cottages with 18 bedrooms; with a new 'barn style' to provide an additional 20 hotel rooms, gym and spa. Area 2: Five self-build residential properties including gardens, soft landscaping and car parking areas. Area 3: Trail head centre with a café. Area 4: New cricket club house and pitch. Area 5: Riverside walk area and allotments.

Table 1-1 (cont'd): Summary of site details for land at Malt Kiln Lane/Longridge Road, Chipping.

1.3 Additional Information

The land to the south of Area 2 has previously been investigated (Phase I Desk Study and Phase II Geo-environmental Assessment Report) by Brownfield Solutions Limited in March 2013 (report reference AJH/C2179/3577). This area is to be developed for residential end use.

The report details that the site had previously been used for agriculture and from the 1960s has been used as a cricket pitch. Made ground was not identified in any of the window sample boreholes, and no elevated levels of contaminants were encountered. Full radon protection measures are required in the proposed buildings and strip footings were considered appropriate with a safe bearing capacity of 90kN/m^2. However, there may be localised soft spots or influences from trees which may require deeper foundations. Gas monitoring is currently ongoing.

2 SITE HISTORY

In compiling the site history, LKC consulted mapping and other environmental data provided by the Landmark Information Group Ltd. Copies of relevant historical plans are provided in Appendix A and are summarised in Tables 2-1 to 2-5. Notable features within 100m of the site boundary have been presented (distances will be approximate). The exception to this will be features that could be infilled historically. The buffer will be 250m for these features.

Area 1 (Main Mills Complex)

Site Features	Location	Map Dates Present	Comments
Mill Pond	North	1847-Present	-Embankment noted around the southern side of the Mill pond from 1892 mapping.
Chipping Brook	Centre	1847-Present	-Brook meanders through the site.
Chipping Factory	Centre	1847-Present	-Annotated As Kirk Chair Manufactory from 1982 mapping. -Grade II listed building.
Undifferentiated Building	Centre	1892-Present	-Building expanded / rebuilt from 1856 mapping. -Becomes part of Kirk Mills on 1968 mapping.
Kirk Chair Manufactory	Centre	1956-Present	-Annotated as Kirk Mills from 1968 mapping. -Four buildings with one associate chimney identified from 1968 mapping. -Electricity substation present from 1968 to present day mapping. -Two additional buildings identified in the south of the site from 1982 mapping.
Surrounding Area Features	**Distance/ Location**	**Map Dates Present**	**Comments**
St Bartholomew's Church	80m SE	1847-Present	-With associated Grave Yard. -Grave Yard no longer annotated on 1968 mapping.
Footpath	50m NW	1892-Present	
Mill Pond	240m SE	1912-1956	-Associated with Chipping Mill (corn). -No longer identified on 1968 mapping.
Electricity Substation	30m N	1968-Present	

Table 2-1: Summary of historical features for land at Area 1, Malt Kiln Lane, Chipping.

Area 2 (The Hive Residential Area)

Site Features	Location	Map Dates Present	Comments
Malt Kiln House	South east	1847-Present	
Surrounding Area Features	**Distance/ Location**	**Map Dates Present**	**Comments**
Mill Pond	40m N	1847-Present	-Embankment noted around the southern side of the Mill pond on 1892 mapping.
Kirk Chair Manufactory	50m N	1847-Present	-Annotated as Kirk Mills on 1968 mapping.
Kirk Mills	10m W	1968-Present	-Four buildings with one associated chimney identified on 1968 mapping. -Two additional buildings identified in the centre of the site on 1982 mapping.

Table 2-2: Summary of historical features for land at Area 2, Malt Kiln Lane, Chipping.

Area 3 (New Trailhead Centre and Green Space)

Site Features	Location	Map Dates Present	Comments
Chipping Brook	Centre	1847-Present	-Brook meanders through the site.
Surrounding Area Features	**Distance/ Location**	**Map Dates Present**	**Comments**
Mill Pond	240m NW	1847-Present	-Embankment noted around the southern side of the Mill pond on 1892 mapping.
St Bartholomew's Church	10m S	1847-Present	-With associated Grave Yard. -Grave Yard no longer annotated from 1968 mapping.
Mill Pond	120m SE	1912-1956	-Associated with Chipping Mill (corn). -No longer identified on 1968 mapping.
Kirk Mills	90m NW	1968-Present	-Four buildings with one associated chimney identified on 1968 mapping. -Two additional buildings identified in the centre of the site on 1982 mapping.
Electricity Substation	90m NW	1968-Present	
Electricity Substation	60m S	1968-Present	

Table 2-3: Summary of historical features for land at Area 3, Malt Kiln Lane, Chipping.

Area 4 (Relocated Cricket Pitch Site)

Site Features	Location	Map Dates Present	Comments
Site Undeveloped	Whole site	1847-Present	-Site is currently farmland (pasture).
Surrounding Area Features	**Distance/ Location**	**Map Dates Present**	**Comments**
Chipping Brook	Adjacent W	1847-Present	
Burial Ground	210m NW	1893-2012	-Associated with St. Mary's R. C. Chapel. -No longer annotated on 1933 mapping.
Mill Pond	230m NW	1912-1956	-Associated with Chipping Mill (corn). -No longer identified on 1968 mapping.
Cutting/embankment	110m NW	1932-1987	-No longer identified on 1994 mapping, replaced by Brookfield Close and residential properties.
Cutting/embankment	110m SW	1932-1956	-No longer identified on 1968 mapping.
Burial Ground	150m NW	1968-2012	

Table 2-4: Summary of historical features for land at Area 4, Longridge Road, Chipping.

Area 5 (Potential Riverside Walk and Allotment Gardens)

Site Features	Location	Map Dates Present	Comments
Chipping Brook	Centre	1847-Present	-Brook meanders through the site. -Weir present in the northern part of the brook on 1847 mapping.
Footpath	East	1892-Present	
Surrounding Area Features	**Distance/ Location**	**Map Dates Present**	**Comments**
Pond	190m NW	1847-1956	-Annotated as Mill Pond on 1912 mapping. -No longer annotated on 1968 mapping.
Mill Pond	10m SE	1847-Present	-Embankment noted around the southern side of the Mill pond on 1892 mapping.
Electricity Substation	30m NE	1968-Present	
Works	70m NW	1994-Present	

Table 2-5: Summary of historical features for land at Area 5, Malt Kiln Lane, Chipping.

2.1 Anecdotal Information

In Area 1 the former Kirk Chair Manufactory comprises of several buildings. The old Kirk Mill is located immediately south of the Mill pond and is a stone built Grade II listed building. The building was originally a corn mill, then later a water powered cotton spinning mill dating back to around the mid-1500s[4]. It was redeveloped around 1785 into the building still present. The waterwheel is reported to have been used to generate electricity from 1923 until 1940 to light the mill building. The building is understood to have been used as a workshop over the three floors. This building is expected to remain and converted into a hotel with restaurant and pub.

The other Kirk Mill buildings are situated to the east of Malt Kiln Brow. The main building adjacent to the site entrance dates from around 1956 and is understood to have been used as an office building and a warehouse[5]. To the north of this building is a two storey building known as the timber store but used as a workshop. These buildings are not expected to remain. At the rear of these buildings is a traditional stone built barn and three small brick built buildings. The barn is understood to have been used as a workshop and the three buildings used to house the drying kilns and tool/paint stores. The barn and three buildings are expected to remain and converted into holiday cottages.

The south of Area 1 is the other side of Chipping Brook and there is a large warehouse and adjacent to this is an open-sided timber storage shed. These buildings are not expected to remain.

[4] Inter Hydro Technology (2011). "Forest of Bowland AONB Hydro Feasibility Study". http://www.forestofbowland.com/files/uploads/pdfs/hydro/site-5-kirk-mill-chipping.pdf.

[5] Wignall Brownlow LLP (2010). "H J Berry & Sons Ltd – In Administration. Preliminary Property Information". http://www.wignall brownlow.co.uk/uploads/pdfs/H_J_BERRY_PRELIM_SALES_DETAILS.pdf.

3 ENVIRONMENTAL SETTING

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

Summary of Environmental Setting			
Geology	Superficial		-Devensian Till (Diamicton) in Area 2. -Flandrian Alluvium (Clay, Silt, Sand and Gravel) in Area 4. -Alluvium and Till in Areas 1, 3 and 5.
	Bedrock		-Yeadonian-Asbian Bowland Shale Formation (Mudstone and Sandstone) present in NW of Area 1 and 3, N of Area 4 and SE of Area 5. -Brigantian-Asbian Park Style Limestone Member (Limestone) present in SE of Area 1 and whole of Area 2. -Asbian-Holkerian Pendleside Limestone Formation (Limestone) present in SE of Area 3 and NW of Area 5. -Holkerian-Chadian Hodder Mudstone Formation (Mudstone) present in the south of Area 4.
	Faulting		-Two faults within 250m of the site. -170m SW of Area 1 and 150m W of Area 2 striking NE-SW. -Running though S of Area 4 striking E-W.
Hydrogeology	Aquifer Designation	Superficial	-Unproductive in Area 2. -Secondary A in Area 4. -Unproductive and Secondary A in Areas 1, 3 & 5.
		Bedrock	-Secondary A in all Areas.
	Groundwater abstractions		-None within 500m.
Hydrology	Nearest surface water		-Chipping Brook onsite.
	Flooding		-At risk from flooding from Chipping Brook (Flood Zone 3).
	Surface water abstractions		-One within 500m. -This being 46m SE of Area 1 by H J Berry & Sons Ltd for private water supply (pisciculture) from Chipping Brook.
	Discharge consent		-Four within 250km. -Nearest being adjacent N of Area 4 by Wolstenholme & Joy discharging surface water into Chipping Brook. This discharge has been revoked.
	Pollution Incidents		-Seven within 250m. -Nearest being adjacent SW of Area 2 in April 1996 into Chipping Brook. No pollution found and was a Category 3 (minor) incident.

Table 3-1: Summary of environmental setting for land at Malt Kiln Lane/Longridge Road, Chipping.

Summary of Environmental Setting		
Mining	Coal Mining Referral Area	-Off coalfield.
	Mineral Abstraction	-None within 1km.
Landfill sites (within 250m)	Known/Registered	-None within 250m.
	Potential	-Pond 120m SE of Area 3 potentially infilled on 1968 mapping. -Grave Yard 10m S of Area 3 present on 1847 mapping. -Two burial grounds 150m NW and 210m NW of Area 4. Nearest present on 1968 mapping.
Radon		Area 1: NE of the site probability of 5-10% of homes above Action Level; therefore basic protection measures are required. Remainder of the site probability of <1% of homes above Action Level; therefore no further action required. Area 2 and 5: Whole site probability of <1% of homes above Action Level; therefore no further action required. Area 3: SW of the site probability of <1% of homes above Action Level; therefore no further action required. Remainder of the site probability of 5-10% of homes above Action Level; therefore basic protection measures are required. Area 4: SW of the site probability of 1-3% of homes above Action Level; therefore no further action required. Remainder of the site probability of 10-30% of homes above Action Level; therefore full protection measures are required.
Designated Sites		-In Area of Outstanding Natural Beauty (Forest of Bowland).
Contemporary Trade Directory		-None active within 250m.

Table 3-1 (cont'd): Summary of environmental setting for land at Malt Kiln Lane/Longridge Road, Chipping.

4 SITE RECONNAISSANCE

A site reconnaissance of the study site area was carried out by LKC on the 16th April 2013. Photographs are provided in Appendix C.

The site is comprised of five different areas. Areas 1, 2, 3 and 5 were located off Malt Kiln Lane and Area 4 is located off Longridge Road in the area of Chipping, Lancashire.

Area 1 is currently occupied by the mill pond and the listed mill building to the north (Photographs 1 and 2). The listed mill building was observed to be three storeys high and built out of stone. On the ground floor a concrete floor was observed and a water wheel was present to the north of the building (Photographs 3 and 4).

Former factory buildings are present over the central part of the site and were noted to have corrugated asbestos roofing (Photographs 5 to 9). Drying kilns and an electricity substation were present along the northern boundary of the site (Photographs 10 and 11). Two open sided structures were present towards the southern end of Area 1 which were hardstood with concrete (Photographs 12 and 13).

Several drains and services were noted across Area 1 and the site was generally hardstood with concrete (Photographs 14 and 15). Several discarded oil drums were noted near to the electricity substation (Photograph 16).

Area 2 is currently a steep sided field with a plateau at the top used to graze horses (Photographs 17 to 19). The northern side of the site was noted to be approximately 10m above the surrounding area. Two trial holes were undertaken which encountered natural clay.

Area 3 was not accessible at the time of the site reconnaissance but was observed to be rough grass and trees with Chipping Brook meandering through the area. The river cutting appeared to be of natural strata (Photographs 20 and 21).

Area 4 is located approximately 500m south west of Area 3 and was accessed off Longridge Road via a small footbridge (Photograph 22). The site appeared to be used for grazing sheep. The ground was mostly grassed except for a small tarmac area in the south western corner (Photographs 23 and 24). An overhead electricity line was observed across the site (Photograph 25). Three trial holes were undertaken across the site which encountered natural sandy clay.

Area 5 is located to the north of the mill pond off Malt Kiln Brow and was accessed via a stile. The site is currently an undeveloped area next to Chipping Brook and comprises of grass and trees with some small footpaths and a bridge over the brook (Photographs 26 to 28). A drain and overhead electricity cables were also noted in this area (Photographs 29 and 30). Two trial holes were undertaken which generally comprised natural clayey sand.

Trial hole locations are shown in Figure 4 and logs are provided in Appendix D.

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 CLR11[6]. 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

Area 1

The primary historical onsite features that may be of concern are Kirk Mills (Kirk Chair Manufactory) identified onsite from 1847 mapping and associated buildings identified onsite from 1968 and 1982 mapping. Potential contaminants from these features may be a source of, but not be limited to, adhesives and formaldehyde resins (including polyvinyl acetate), catalysts, sizing agents, surface coatings, solvents and preservative treatments[7]. An electricity substation was identified onsite during the site reconnaissance. Shallow soils in this area may be contaminated with PCBs and dielectric oil. Other general contaminants may include asbestos within the building (signs noted asbestos) and ash from the burning of waste wood onsite. However, no risk is expected from the listed mill building, barn and three brick built buildings as they are expected to remain and are hardstood with concrete.

The existing listed mill building, barn and three small brick built buildings may be a source of the above contaminants but are not expected to be of concern due to the buildings having concrete floors which should impede the migration of any contaminants.

Area 2

Malt Kiln House has been identified on mapping dating from 1847 until present day. This building is to remain and will not likely be a risk from contamination. The remainder of the site appears to have been undeveloped.

No made ground was encountered in the trial holes undertaken during the site reconnaissance and no source of contamination has been identified on the site.

Area 3

Since 1847 this area has remained undeveloped. No made ground was observed along the banks of Chipping Brook where it cuts into the side. Therefore, no potential contamination is expected in this area.

[6] Defra (2004). "Model Procedures for the Management of Land Contamination." R&D Publication CLR 11.
[7] Department of the Environment (1995). "Timber Products Manufacturing Works".

Area 4

This area has been undeveloped since 1847 mapping. The area was observed to be used for animal grazing from the site reconnaissance, with a small area of tarmacadam made ground near to the site entrance off Longridge Road. However, this area of tarmacadam will be under the proposed roadway and parking areas, therefore no route of exposure is expected.

Area 5

Since 1847 this area has remained undeveloped. No made ground was observed along the banks of Chipping Brook where it cuts into the side. A footpath was noted on mapping dating from 1892 to the present day. This footpath is expected to remain and was observed to comprise of gravel stone. Therefore, no contamination source has been identified.

Potential Offsite Risks

The immediate surrounding areas have been mainly developed for agricultural or residential usage. Several potentially contaminative land-uses have been identified within 100m of the study site including an electricity substation and a corn mill. LKC do not consider these historical features to be a significant risk to the site.

The Envirocheck Report has not identified any known/licensed landfill sites within 250m of the study site. A review of the historical OS mapping by LKC has identified one potentially infilled pond and three burial grounds / grave yards within 250m of the site. These features have the potential to generate hazardous gas (primarily carbon dioxide and methane).

In addition, Areas 1, 3 and 4 are at risk from ground gas (radon), which may migrate into future buildings.

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

5.3 Potential Pathways

Principal potential pathways associated with human health from soil contamination are ingestion, dermal and inhalation. The current UK technical report document[8] recognises ten such pathways comprising four ingestion, two dermal and four inhalation. These are listed as follows:

- Ingestion of soil
- Ingestion of soil-derived indoor dust
- Ingestion of contaminated vegetables
- Ingestion of soil attached to vegetables
- Dermal contact with soil
- Dermal contact with soil-derived indoor dust
- Inhalation of soil-derived outdoor dust
- Inhalation of soil-derived indoor dust
- Inhalation of vapours outside
- Inhalation of vapours inside

The proposed end-use for Area 1 follows a non-standard conceptual model of a leisure complex land use. Using a commercial standard land use is considered appropriate for an initial screen and therefore eight of the pathways will need to be considered (Ingestion of contaminated vegetables and Ingestion of soil attached to vegetables are excluded).

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

The proposed end-use for Area 2 follows a standard conceptual model of 'residential'. For this land use scenario all ten of the pathways will have to be considered.

The proposed end-use for Area 3 follows a non-standard conceptual model of a café with public open space land use. Using a public open space land use with a commercial end use with regards to the café is considered appropriate for an initial screen. Therefore four of the pathways will need to be considered for the public open space land use (Ingestion of soil, Dermal contact with soil, Inhalation of soil derived outdoor dust and Inhalation of vapours outside) and eight pathways will need to be considered for the café (Ingestion of contaminated vegetables and Ingestion of soil attached to vegetables are excluded).

The proposed end-use for Area 4 follows a non-standard conceptual model of a cricket pavilion and cricket pitch land use. Using a sports field as the primary land use with a commercial end use with regards to the pavilion is considered appropriate for an initial screen. Therefore four of the pathways will need to be considered for the sports field land use (Ingestion of soil, Dermal contact with soil, Inhalation of soil derived outdoor dust and Inhalation of vapours outside) and eight pathways will need to be considered for the pavilion (Ingestion of contaminated vegetables and Ingestion of soil attached to vegetables are excluded).

The proposed end-use for Area 5 follows a standard conceptual model of 'allotment' and public open space land use. For the allotment land use scenario six of the pathways will need to be considered (Ingestion of soil-derived indoor dust, Dermal contact with soil-derived indoor dust, Inhalation of soil-derived indoor dust and Inhalation of vapours inside are excluded). For the public open space land use four of the pathways will need to be considered (Ingestion of soil, Dermal contact with soil, Inhalation of soil derived outdoor dust and Inhalation of vapours outside).

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

Culverts, ditches, drains, service drains may provide preferential pathways off site. The site reconnaissance indicated several service drains were present primarily across Area 1.

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

The underlying Till deposits may impede the migration of contaminants to or from the study site.

The site is situated on Sandstone, depending on the pore space and bedding orientation, this may act as a pathway for contaminants onto or off-site.

There are two known geological faults within 250m of the study site. The fault running through the south of Area 4 is considered to be a viable pathway.

5.4 Potential Receptors

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

- Human Health: Future site residents (Area 2), future site staff and users (Areas 1, 3, 4 and 5).
- Controlled Waters: Chipping Brook running through Areas 1, 3, 5, also adjacent to Areas 2 and 4 and underlying Secondary A Aquifer.
- Buildings and Services: Landfill/ground gas and organic/corrosive contaminants that could affect integrity of building materials and service pipes.
- Flora: Within future gardens, allotments and landscaped area.
- Ecological: Flora and fauna within the AONB.

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 guidance[9]) should be adopted by all workers involved with site enabling and construction works. Therefore, this receptor is not considered in the contamination conceptual model.

5.5 Preliminary Contamination Conceptual Model

The preliminary contamination conceptual model will be split into the five Areas to target areas of potential contamination, pathways and receptors. These are illustrated in Tables 5-1 to 5-5 below.

Area 1

The preliminary conceptual model for Area 1 has identified eight generic potential pollutant linkages, all of which are considered possible at this stage. The exception is the existing listed mill building, barn and the three small brick built buildings, where no significant risk has been identified considering the thick existing concrete floor slabs preventing migration to the underlying strata. Asbestos signs were noted on the existing buildings, this will be dealt with by an Asbestos Refurbishment Survey.

Pollutant Linkage No.	Contaminant					Pathway	Receptor
	ACM	Gases		Contaminants			
		Hazardous	Ground	Organic	Inorganic		
PL1	?	x	x	?	?	-Dermal contact. -Ingestion of soils. -Inhalation of contaminated soil, fibres and dust.	-Future site staff. -Future site users.
PL2	x	x	x	?	x	-Inhalation of vapours. -Vapour migration through permeable strata.	-Future site staff. -Future site users. -Onsite drain. -Site buildings.
PL3	x	x	✓	x	x	-Inhalation of ground gas. -Migration through permeable strata.	-Future site staff. -Future site users.
PL4	x	x	x	?	?	-Groundwater migration through permeable strata. -Perched waters migration on site.	-Secondary A Aquifer. -Chipping Brook. -Onsite drain.
PL5	x	x	x	x	?	-Contact with potential hazards.	-Site buildings.
PL6	x	x	x	?	?	-Ingestion of tainted water supply. -Corrosion of metal pipework.	-Future site staff. -Future site users. -Pipework.
PL7	x	x	x	x	?	-Root uptake of phytotoxic contaminants.	-Flora in future landscaping.
PL8	x	x	x	?	?	-Root uptake by flora. -Direct contact pathways with fauna.	-Flora and fauna within AONB.

Table 5-1: Contamination Conceptual Model for land at Area 1, Malt Kiln/Longridge Road, Chipping.
(Key: ? – pollutant linkage possible; x – pollutant linkage unlikely)

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

Area 2

The preliminary conceptual model for Area 2 has identified eight generic potential pollutant linkages, one of which is considered possible at this stage.

Pollutant Linkage No.	Contaminant					Pathway	Receptor
	ACM	Gases		Contaminants			
		Hazardous	Ground	Organic	Inorganic		
PL1	x	x	x	x	x	-Dermal contact. -Ingestion of soils and vegetables. -Inhalation of contaminated soil, fibres and dust.	-Future site residents (inc. veg uptake).
PL2	x	x	x	x	x	-Inhalation of vapours. -Vapour migration through permeable strata.	-Future site residents.
PL3	x	x	x	x	x	-Inhalation of hazardous / ground gas. -Migration through permeable strata. -Explosion in confined spaces.	-Future site residents. -Offsite receptors (if gas is generated on site). -Building structure.
PL4	x	x	x	x	x	-Groundwater migration through permeable strata. -Perched waters migration on site.	-Secondary A Aquifer. -Chipping Brook.
PL5	x	x	x	x	x	-Contact with potential hazards.	-Site buildings.
PL6	x	x	x	x	x	-Ingestion of tainted water supply. -Corrosion of metal pipework.	-Future site residents. -Pipework.
PL7	x	x	x	x	x	-Root uptake of phytotoxic contaminants.	-Flora in future landscaping.
PL8	x	x	x	?	?	-Root uptake by flora. -Direct contact pathways with fauna.	-Flora and fauna within AONB.

Table 5-2: Contamination Conceptual Model for land at Area 2, Malt Kiln/Longridge Road, Chipping.
(Key: ? – pollutant linkage possible; x – pollutant linkage unlikely)

Area 3

The preliminary conceptual model for Area 3 has identified eight generic potential pollutant linkages, two of which are considered possible at this stage.

Pollutant Linkage No.	Contaminant					Pathway	Receptor
	ACM	Gases		Contaminants			
		Hazardous	Ground	Organic	Inorganic		
PL1	x	x	x	x	x	-Dermal contact. -Ingestion of soils. -Inhalation of contaminated soil, fibres and dust.	-Future site staff. -Future site users.
PL2	x	x	x	x	x	-Inhalation of vapours. -Vapour migration through permeable strata.	-Future site staff. -Future site users. -Site building.
PL3	x	x	✓ (café only)	x	x	-Inhalation of ground gas. -Migration through permeable strata.	-Future site staff. -Future site users.
PL4	x	x	x	x	x	-Groundwater migration through permeable strata. -Perched waters migration on site.	-Secondary A Aquifer. -Chipping Brook. -Ecology/flora/fauna. -Onsite drain.
PL5	x	x	x	x	x	-Contact with potential hazards.	-Site buildings.
PL6	x	x	x	x	x	-Ingestion of tainted water supply. -Corrosion of metal pipework.	-Future site staff. -Future site users. -Pipework.
PL7	x	x	x	x	x	-Root uptake of phytotoxic contaminants.	-Flora in future landscaping.
PL8	x	x	x	?	?	-Root uptake by flora. -Direct contact pathways with fauna.	-Flora and fauna within AONB.

Table 5-3: Contamination Conceptual Model for land at Area 3, Malt Kiln/Longridge Road, Chipping.
(Key: ? – pollutant linkage possible; x – pollutant linkage unlikely)

Area 4

The preliminary conceptual model for Area 4 has identified eight generic potential pollutant linkages, two of which are considered possible at this stage.

Pollutant Linkage No.	Contaminant					Pathway	Receptor
	ACM	Gases		Contaminants			
		Hazardous	Ground	Organic	Inorganic		
PL1	x	x	x	x	x	-Dermal contact. -Ingestion of soils. -Inhalation of contaminated soil, fibres and dust.	-Future site staff. -Future site users.
PL2	x	x	x	x	x	-Inhalation of vapours. -Vapour migration through permeable strata.	-Future site staff. -Future site users.
PL3	x	x	✓ (club house only)	x	x	-Inhalation of ground gas. -Migration through permeable strata. -Migration through underlying fault.	-Future site staff. -Future site users.
PL4	x	x	x	x	x	-Groundwater migration through permeable strata. -Perched waters migration on site.	-Secondary A Aquifer. -Chipping Brook.
PL5	x	x	x	x	x	-Contact with potential hazards.	-Site buildings.
PL6	x	x	x	x	x	-Ingestion of tainted water supply. -Corrosion of metal pipework.	-Future site staff. -Future site users. -Pipework.
PL7	x	x	x	x	x	-Root uptake of phytotoxic contaminants.	-Flora in future landscaping.
PL8	x	x	x	?	?	-Root uptake by flora. -Direct contact pathways with fauna.	-Flora and fauna within AONB.

Table 5-4: Contamination Conceptual Model for land at Area 4, Malt Kiln/Longridge Road, Chipping.
(Key: ? – pollutant linkage possible; x – pollutant linkage unlikely)

Area 5

The preliminary conceptual model for Area 5 has identified eight generic potential pollutant linkages, one of which is considered possible at this stage.

Pollutant Linkage No.	Contaminant					Pathway	Receptor
	ACM	Gases		Contaminants			
		Hazardous	Ground	Organic	Inorganic		
PL1	x	x	x	x	x	-Dermal contact. -Ingestion of soils and vegetables. -Inhalation of contaminated soil, fibres and dust.	-Future allotment users (inc. veg uptake). -Future POS users.
PL2	x	x	x	x	x	-Inhalation of vapours. -Vapour migration through permeable strata.	-Future allotment users. -Future POS users. -Onsite drain.
PL3	x	x	x	x	x	-Inhalation of hazardous / ground gas. -Migration through permeable strata. -Explosion in confined spaces.	-Future allotment users. -Future POS users. -Building structure.
PL4	x	x	x	x	x	-Groundwater migration through permeable strata. -Perched waters migration on site.	-Secondary A Aquifer. -Chipping Brook. -Onsite drain.
PL5	x	x	x	x	x	-Contact with potential hazards.	-Site buildings.
PL6	x	x	x	x	x	-Ingestion of tainted water supply. -Corrosion of metal pipework.	-Future site users. -Pipework.
PL7	x	x	x	x	x	-Root uptake of phytotoxic contaminants.	-Flora in future landscaping.
PL8	x	x	x	?	?	-Root uptake by flora. -Direct contact pathways with fauna.	-Flora and fauna within AONB.

Table 5-5: Contamination Conceptual Model for land at Area 5, Malt Kiln/Longridge Road, Chipping.
(Key: ? – pollutant linkage possible; x – pollutant linkage unlikely)

Each linkage is discussed below along with an assessment of the likelihood of each linkage considering the available data and the nature of the development. This conceptual model is based upon contaminant-pathway-receptor pollutant linkages, on the premise that if there is no pollutant linkage then there will be no risk to the receptor[10].

5.5.1 Pollutant Linkage 1

Pollutant linkage 1 refers to the potential asbestos, heavy metals and organic contaminants coming into direct contact with future site residents, future site staff and future site users.

Area 1

This is considered possible in areas of proposed landscaping for future site staff and users from the former Kirk Chair Manufactory onsite. However, no risk is expected from the listed mill building, barn and three brick built buildings as they are expected to remain and are hardstood with concrete.

Areas 2, 3, 4 and 5

No potential contamination source has been identified onsite and no made ground was identified from the trial holes undertaken during the site reconnaissance.

Therefore, this pollutant linkage is considered possible for Areas 1 only at this stage.

5.5.2 Pollutant Linkage 2

Potential pollutant linkage 2 refers to possible inhalation of vapours affecting the future site residents and future site from potential hydrocarbons onsite.

Area 1

This is considered possible as a possible source of vapours has been identified from the former use of the Area as a furniture factory where there may be potential leakages or spillages of hydrocarbons (i.e. from heating oil) or solvents (from the manufacturing processes). Therefore, this linkage is considered possible at this stage for Area 1 at this stage. However, risk from volatile contaminants to the listed mill building, barn and three brick built buildings is not expected due to the concrete hardstood floor and no stains being observed on the concrete surface.

Areas 2, 3, 4 and 5

No significant sources of hydrocarbons have been identified for the above Areas. As no contaminative source has been identified this linkages is considered unlikely at this stage.

5.5.3 Pollutant Linkage 3

Potential pollutant linkage 3 refers to possible hazardous gas and ground gas affecting the future site residents and accumulating in buildings causing an explosion (methane), asphyxiation (carbon dioxide) and cancers (radon).

Hazardous Gas

There may be possibly migration of hazardous gas from infilled areas within 250m of the site boundary. A review of historic mapping by LKC has identified a pond 120m S and a grave yard 10m S of Area 3 and two burial grounds 150m and 210m NW of Area 4.

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

Considering the size and age of infilling of the features, it is unlikely that they will generate significant volumes of hazardous gas. In addition the grave yard / burial grounds will not likely generate high volumes of hazardous gas at a significant flow rate that would migrate to the site.

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

Ground Gas

Ground gas from the underlying limestone bedrock is not expected to be a significant risk to the site due to the depth of anticipated intervening Till deposits in areas of proposed buildings.

Areas 1 and 3 have been identified as areas where between 5-10% of homes will be affected by radon, therefore basic protection measures will be required across this area of the site. Area 4 has been identified as an area where between 10-30% of homes will be affected by radon, therefore full protection measures will be required across this area of the site. These radon protection measures will also protect against migration of low level hazardous and ground gas.

Based on the above pollutant linkage 3 is considered complete for radon in Areas 1, 3 and 4.

5.5.4 Pollutant Linkage 4

Potential pollutant linkage 4 refers to the possible contaminants and the underlying Secondary A Aquifer and Chipping Brook.

Area 1

This linkage is considered possible in Area 1 given the possible presence of made ground and possible localised hydrocarbon spillages on the study site.

It should be noted that the underlying Till deposits may for some protection to the Secondary A Aquifer and Chipping Brook by impeding migration of dissolved phased contaminants.

Areas 2, 3, 4 and 5

Significant mobile contamination is not expected on these Areas; furthermore, the anticipated intervening Till deposits may offer some protection to the Secondary A Aquifer and Chipping Brook.

Based on the above, LKC consider pollutant linkage 4 to be possible for Area 1 at this stage.

5.5.5 Pollutant Linkage 5

Potential pollutant linkage 5 refers to the possible deleterious effects that sulphate may have on building materials such as concrete, water pipes and building structures.

Area 1

Potential made ground comprising ash may generate sulphate. Therefore, this pollutant linkage is considered possible in Area 1 at this stage.

Areas 2, 3, 4 and 5

Either no concrete structures will be built, or no aggressive made ground that will attack concrete is anticipated in these areas.

Based on the above pollutant linkage 5 is considered possible in Area 1 at this stage.

5.5.6 Pollutant Linkage 6

Potential pollutant linkage 6 refers to the possible contaminants permeating potable water pipes and consumption by the future site staff, users or residents of the tainted water supply.

Area 1

Given the likely presence of made ground on site and possible presence of hydrocarbons this linkage is considered possible at this stage for Area 1.

Areas 2, 3, 4 and 5

No significant amount of made ground is expected on these Areas. New potable water pipes are likely to be laid in natural ground given the depths of installations (0.7-1.35mbgl). This pollutant linkage is considered unlikely for Areas 2, 3, 4 and 5 at this stage.

However, it should be noted that for new potable water pipes a United Utilities (UU) pipeline risk assessment document[11] will need to be completed to satisfy UU.

5.5.7 Pollutant Linkage 7

Potential pollutant linkage 7 refers to the possible phytotoxic contaminants affecting plant growth.

Area 1

Given the likely presence of made ground onsite and likely heavy metal contaminant, this linkage is also considered possible in areas of soft landscaping.

Areas 2, 3, 4 and 5

Given that significant amounts of made ground are not expected and vegetation stress was not observed during the site reconnaissance this pollutant linkage is considered unlikely at this stage in areas of proposed gardens or landscaping for Areas 2, 3, 4 and 5.

5.5.8 Pollutant Linkage 8

Potential pollutant linkage 8 refers to the potential for contamination impacting on the ecology of the Area of Outstanding Natural Beauty.

LKC recommend a preliminary ecological risk assessment should be undertaken by a competent person to assess the risk from PL8.

[11] United Utilities (2010). "Water Supply Pipeline – Risk Assessment."

6 SUMMARY CONCLUSIONS AND RECOMMENDATIONS

6.1 Summary Conclusions

Area 1

The primary historical onsite features that may be of concern at Area 1 are Kirk Mills (Kirk Chair Manufactory) identified onsite from 1847 mapping and associated buildings identified onsite from 1968 and 1982 mapping. These features may be a source of adhesives and formaldehyde resins (including polyvinyl acetate), catalysts, sizing agents, surface coatings, solvents and preservative treatments from timber works. An electricity substation was identified onsite during the site reconnaissance. Shallow soils in this area may be contaminated with PCBs and dielectric oil. Other general contaminants may include asbestos within the building (signs noted asbestos) and ash from the burning of waste wood onsite. However, no risk is expected from the listed mill building, barn and three brick built buildings as they are expected to remain and are hardstood with concrete.

No significant historical offsite features have been identified within 100m of the area boundary.

The north east of the site is in an area where 5-10% of properties will be affected by radon, and therefore basic radon protection measures will be necessary.

The principal pathways for the migration of contaminants are migration through permeable strata and direct contact.

The principal receptors to contaminants will be future site staff and users, flora / fauna, controlled waters (Secondary A Aquifer and Chipping Brook), buildings and infrastructure.

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

Area 2

Malt Kiln House identified on mapping dating from 1847 until present day is expected to remain. The remainder of the site appears to have been undeveloped.

No source of contamination has been identified. A preliminary ecological risk assessment is recommended to assess pollutant linkage 8.

Several potentially contaminative land-uses have been identified within 100m of the study site including a Kirk Mills. LKC do not consider these historical features to be a significant risk to the site.

The preliminary contamination conceptual model for Area 2 as illustrated in Table 5-2 has identified eight generic potential pollutant linkages, one of which are considered possible at this stage (relating to PL8 ecological risk).

Area 3

Since 1847 mapping Area 3 has remained undeveloped. No made ground was observed along the banks of Chipping Brook where it cuts into the side.

The majority of the site is in an area where 5-10% of properties will be affected by radon, and therefore basic radon protection measures will be necessary.

No source of contamination has been identified or expected in Area 3. A preliminary ecological risk assessment is recommended to assess pollutant linkage 8.

Several potentially contaminative land-uses have been identified within 100m of the study site including a corn mill. LKC do not consider these historical features to be a significant risk to the site.

The preliminary contamination conceptual model for Area 3 as illustrated in Table 5-3 has identified eight generic potential pollutant linkages, two of which are considered possible at this stage (relating to PL3 radon gas and PL8 ecological risk).

Area 4

Area 4 has been undeveloped since 1847 mapping. The area was observed to be used for animal grazing from the site reconnaissance, with a small area of tarmacadam made ground near to the site entrance off Longridge Road. However, this area of tarmacadam will be under the proposed roadway and parking areas, therefore no route of exposure is expected.

The majority of the site is in an area where 10-30% of properties will be affected by radon, and therefore full radon protection measures will be necessary.

No source of contamination has been identified or expected in Area 4. A preliminary ecological risk assessment is recommended to assess pollutant linkage 8.

No significant historical offsite features have been identified within 100m of the area boundary.

The preliminary contamination conceptual model for Area 4 as illustrated in Table 5-4 has identified eight generic potential pollutant linkages, two of which are considered possible at this stage (relating to PL3 radon gas and PL8 ecological risk).

Area 5

Since 1847 mapping Area 5 has remained undeveloped. No made ground was observed along the banks of Chipping Brook where it cuts into the side. A footpath was noted on mapping dating from 1892 to the present day. This footpath is expected to remain and was observed to comprise of gravel stone.

No significant source of radon has been identified; therefore no protection measures will be required.

No source of contamination has been identified or expected in Area 5. A preliminary ecological risk assessment is recommended to assess pollutant linkage 8.

Several potentially contaminative land-uses have been identified within 100m of the study site including an electricity substation and Kirk Mills. LKC do not consider these historical features to be a significant risk to the site.

The preliminary contamination conceptual model for Area 5 as illustrated in Table 5-5 has identified eight generic potential pollutant linkages, one of which are considered possible at this stage (relating to PL8 ecological risk).

6.2 Recommendations

Area 1

LKC would recommend that once conditional planning approval is granted, a Phase II intrusive survey should be carried out across Area 1 to investigate the eight identified potential pollutant linkages further. The scope of this Phase II survey should be prior agreed with the Local Authority and should include the following.

In order to address potential pollutant linkages 1, 2, 5, 6, 7 and 8 solid samples should be collected from trial pits and/or boreholes undertaken across the site subjected to appropriate chemical analyses based upon a broad range of contaminants, including those identified in Section 5.2. The investigation will follow guidance set out in BS10175[12] and BS5930[13]. Some sampling locations will target features such as the Kirk Mill buildings and near to the electricity substation.

LKC consider no gas monitoring is required on the site. However, basic radon protection measures will be required in buildings as per BRE211[14]. This will also protect against low level gas migration into future buildings.

Basic radon protection measures can be installed in two ways depending on foundation design, and should comprise:

- Suspended concrete (block and beam floor),
- Sub-floor void,
- Radon membrane linked to cavity tray,
- Membrane should have lapped joints and vents fully sealed,
- Validation of the radon membrane.

Or

- Ground supported concrete floor,
- Radon membrane linked to cavity tray ,
- Membrane should have lapped joints and vents fully sealed,
- Validation of the radon membrane.

Pollutant linkage 4 may be investigated by the sampling and chemical analysis of any groundwater on site or by testing for any leachable contamination in the soils on site. This will be dependent upon prevailing site conditions. Surface water samples should also be collected from Chipping Brook upstream and downstream of the site as well as from onsite and tested for a similar suite of contaminants as that of the soil samples tested.

[12] British Standard (2011). "Investigation of Potentially Contaminated Sites – Code of Practice." BS10175:2011
[13] British Standard (1999). "Code of Practice for Site Investigations. " BS5930:1999
[14] BRE (2007). "Radon: Guidance on protective measures for new buildings" BRE211

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

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

Areas 2, 3, 4 and 5

Based upon the available information LKC consider it unnecessary at this stage to undertake an extensive contamination investigation on Areas 2, 3, 4 and 5. The tarmacadam made ground identified in Area 4 will be under areas of proposed parking or roadways. However, a minimum of a watching brief should be maintained during site clearance and development works for any likely contaminative made ground, such as ash and clinker; any unusual ground conditions and any visual and / or olfactory evidence of hydrocarbon contamination. The watching brief should be carried out by a suitably qualified person.

If evidence of made ground and/or visual and olfactory evidence of contaminants are identified, then near surface sampling will likely be required to characterise the material and recommendations for appropriate remediation undertaken, if required. Samples should be collected in sufficient quantity and analysed for a suitable suite of determinands to demonstrably characterise the site.

Should any significant thickness of made ground be encountered during the site works, LKC would recommend that this information is reported to the Local Authority and to LKC for further assessment.

In addition, any topsoil or subsoil brought on to the study site should be suitably chemically validated prior to its use on site, according to Local Authority guidance.

LKC consider no gas monitoring is required on the site. However, basic radon protection measures will be required in buildings on Area 3 and full radon protection measures in buildings on Area 4 as per BRE211[15]. This will also protect against low level gas migration into future buildings.

Basic radon protection measures are required in Area 3 and have been detailed in the recommendations for Area 1 above.

Full radon protection measures are required in Area 4 and can be installed in two ways, depending on foundation design, and should comprise:

- Suspended concrete (beam and block floor),
- Sub-floor void with telescopic voids,
- Radon membrane,
- Membrane should have lapped joints and vents fully sealed,
- Validation of the radon membrane.

Or

[15] BRE (2007). "Radon: Guidance on protective measures for new buildings" BRE211

- In-situ (ground supported) concrete floor,
- Radon barrier beneath concrete floor,
- Sub floor depression pipes either through the external wall or through the membrane and concrete floor.
- Membrane should have lapped joints and vents fully sealed,
- Validation of the membrane.

Regulatory Liaison

LKC would recommend that a copy of this report is forwarded to the Local Authority for the approval of the above recommendations before the commencement of any works on the site. LKC would advise that a more detailed site investigation proposal (as a Site Investigation Brief) should be presented to the Local Authority for their approval.

6.3 Further Considerations

6.3.1 Asbestos Containing Materials

External signs warning of Asbestos Containing Materials (ACMs) were observed during the site reconnaissance in Area 1 and there may be areas inside that have ACMs given the age of the properties. Therefore LKC would advise that a Pre-Demolition and Major Refurbishment Asbestos Survey is undertaken prior to demolition by a professional contractor. The LK Group have a designated Asbestos Department would be happy to advise you on the appropriate steps to take in order to have the building suitably surveyed.

6.3.2 Flood Risk Assessment

LKC identified that the site is in a Flood Zone 3 and therefore a flood risk assessment is required to satisfy the Environment Agency/Planning.

Since several areas are over 1.0ha in area, PPS25 [16] requires that a Flood Risk Assessment (FRA) is undertaken to assess the impact of the site on the local drainage system and to assess potential for Sustainable Drainage Systems (SuDS) techniques. Even if the site is not identified on EA mapping as being at risk from fluvial or tidal sources, consultation with the Local Authority and Drainage Undertaker may still identify drainage and local flooding issues which may need to be addressed. LKC have a flood risk assessor who would be happy to advise on the requirements of the flood risk assessment.

6.3.3 Ecology

LKC advise undertaking an ecological risk assessment as the site is located within an Area of Outstanding Natural Beauty. This should provide a suitable assessment for any ecological pollutant linkages (pollutant linkage 8).

6.3.4 Geotechnical Constraints

Ground Conditions and Foundation Solutions

The Envirocheck report has indicated there is a ‘very low’ to ‘low’ risk of collapsible ground, ground dissolution, landslide ground, running sand and shrinking or swelling clay ground. The potential for compressible ground has been identified as no hazard to **moderate**.

[16] ODPM (2006).”Planning Policy Statement 25: Development and Flood Risk.”

A limited trial hole survey identified firm clay at shallow depth in the majority of trial holes locations.

If soft, alluvium superficial ground conditions exist on the study area, new buildings could require specialist deep, wide or reinforced foundations (such as raft or piled foundations) and / or the removal of localised compressible or organic materials.

A geological fault was noted to run through the south of Area 4. This will need to be taken into consideration when designing foundations and further advice from a suitably qualified structural engineer should be sought.

Pavement Design

Generally, silty/clayey/sandy materials provide a low CBR % so that a capping and / or sub base layer may be required.

FIGURES

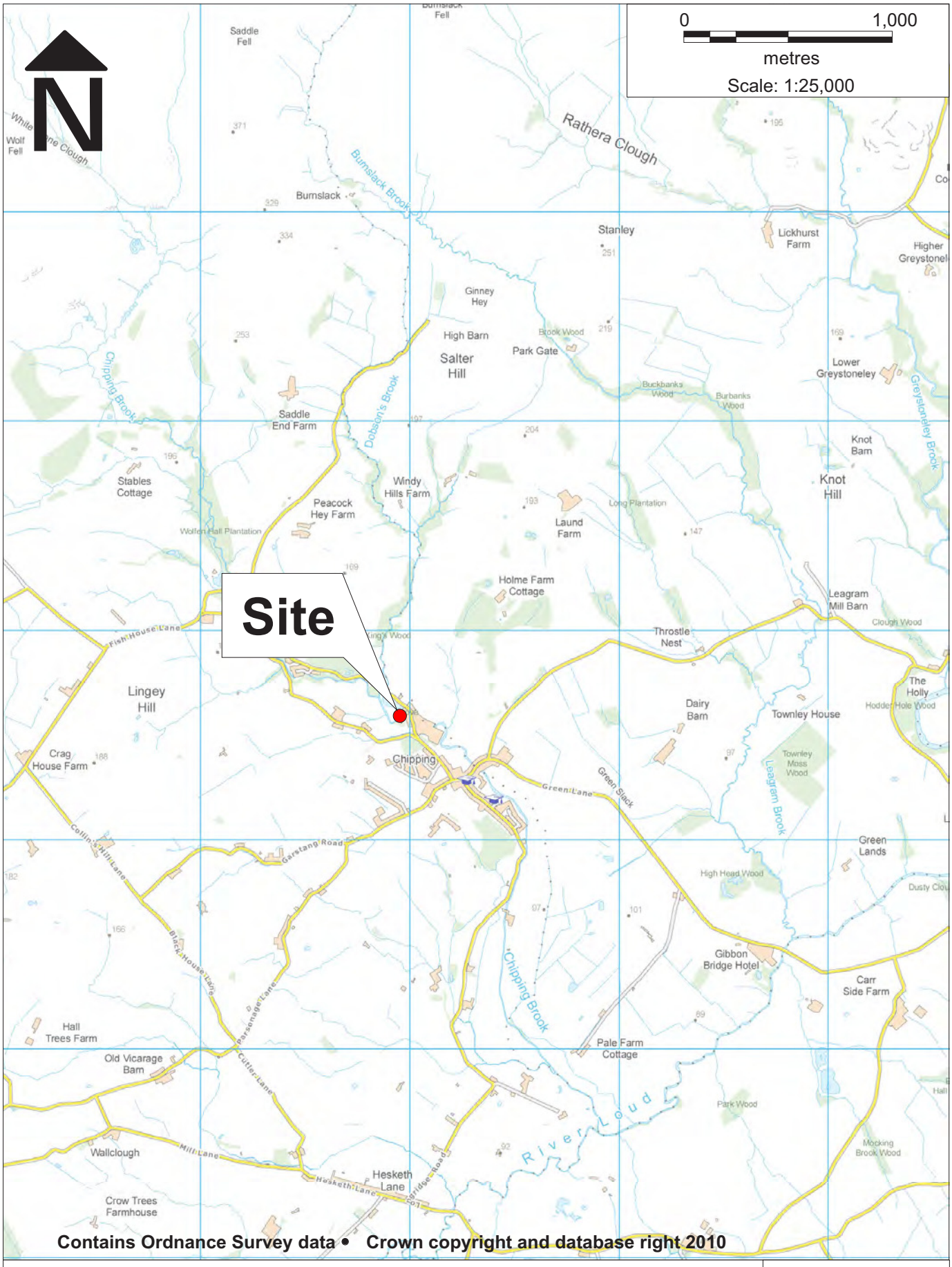

Figure 1: Location Plan, Land at Malt Kiln Lane/Longridge Road, Chipping

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

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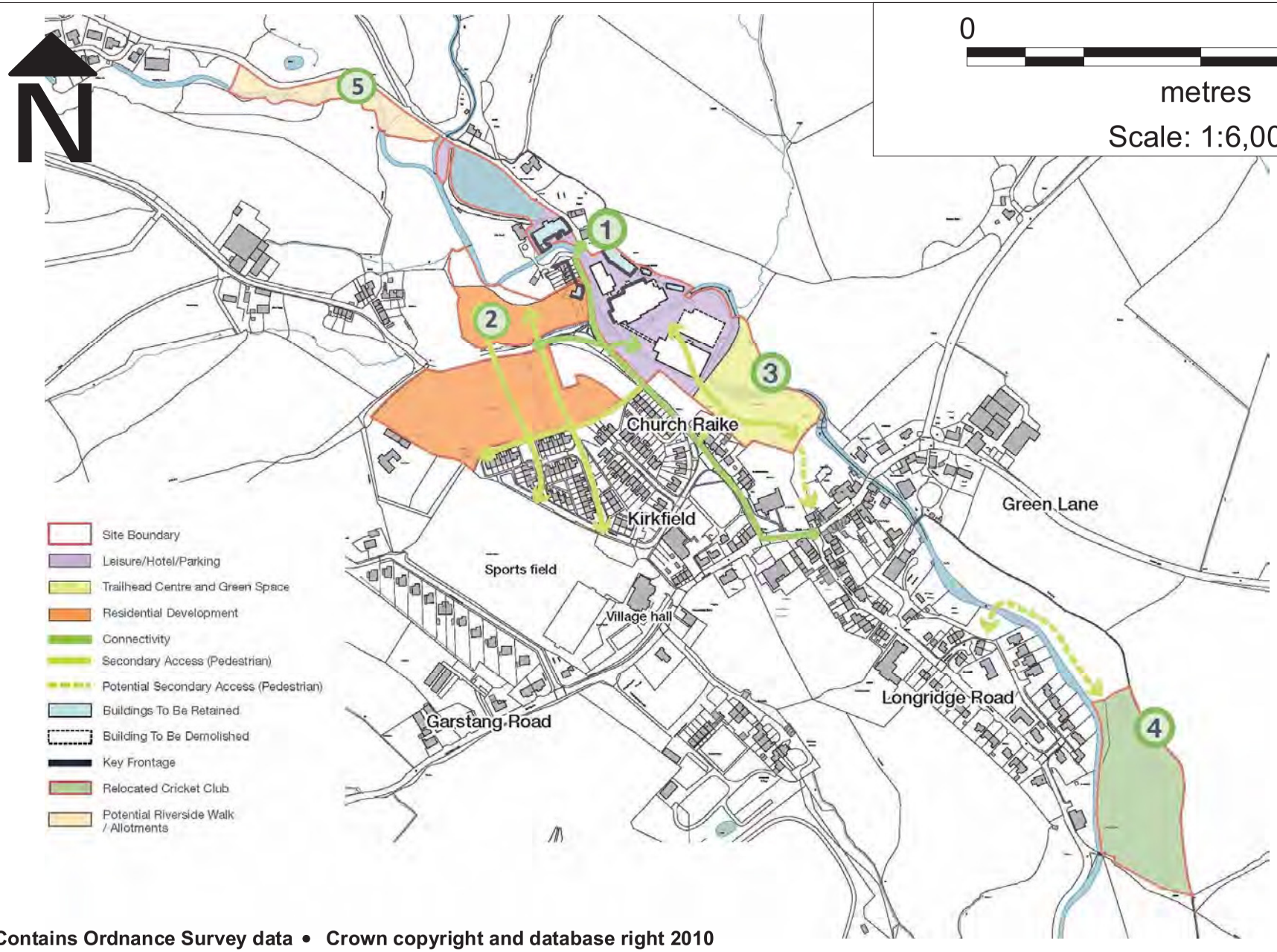

Figure 2: Site Boundary Plan, Land at Malt Kiln Brow/Longridge Road, Chipping

Drawn: June 2013 Scale: See Scale Bar (approx 1:6,000 @ A4) Source: Kirk Mill Consultation Document

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Figure 3-1: Area 1 Proposed Site Plan, Land at Malt Kiln Brow/Longridge Road, Chipping

Drawn: June 2013 Scale: See Scale Bar (approx 1:2,000 @ A4) Source: Kirk Mill Consultation Document

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Figure 3-2: Area 2 Proposed Site Plan, Land at Malt Kiln Brow/Longridge Road, Chipping

Drawn: June 2013 Scale: See Scale Bar (approx 1:1,000 @ A4) Source: Kirk Mill Consultation Document

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Figure 3-3: Area 3 Proposed Site Plan, Land at Malt Kiln Brow/Longridge Road, Chipping

Drawn: June 2013 Scale: See Scale Bar (approx 1:1,000 @ A4) Source: Kirk Mill Consultation Document

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Figure 3-4: Area 4 Proposed Site Plan, Land at Longridge Road, Chipping

Drawn: June 2013 Scale: 1:1,000 @ A4 (see scale bar)
Source: Kirk Mill Consultation Document

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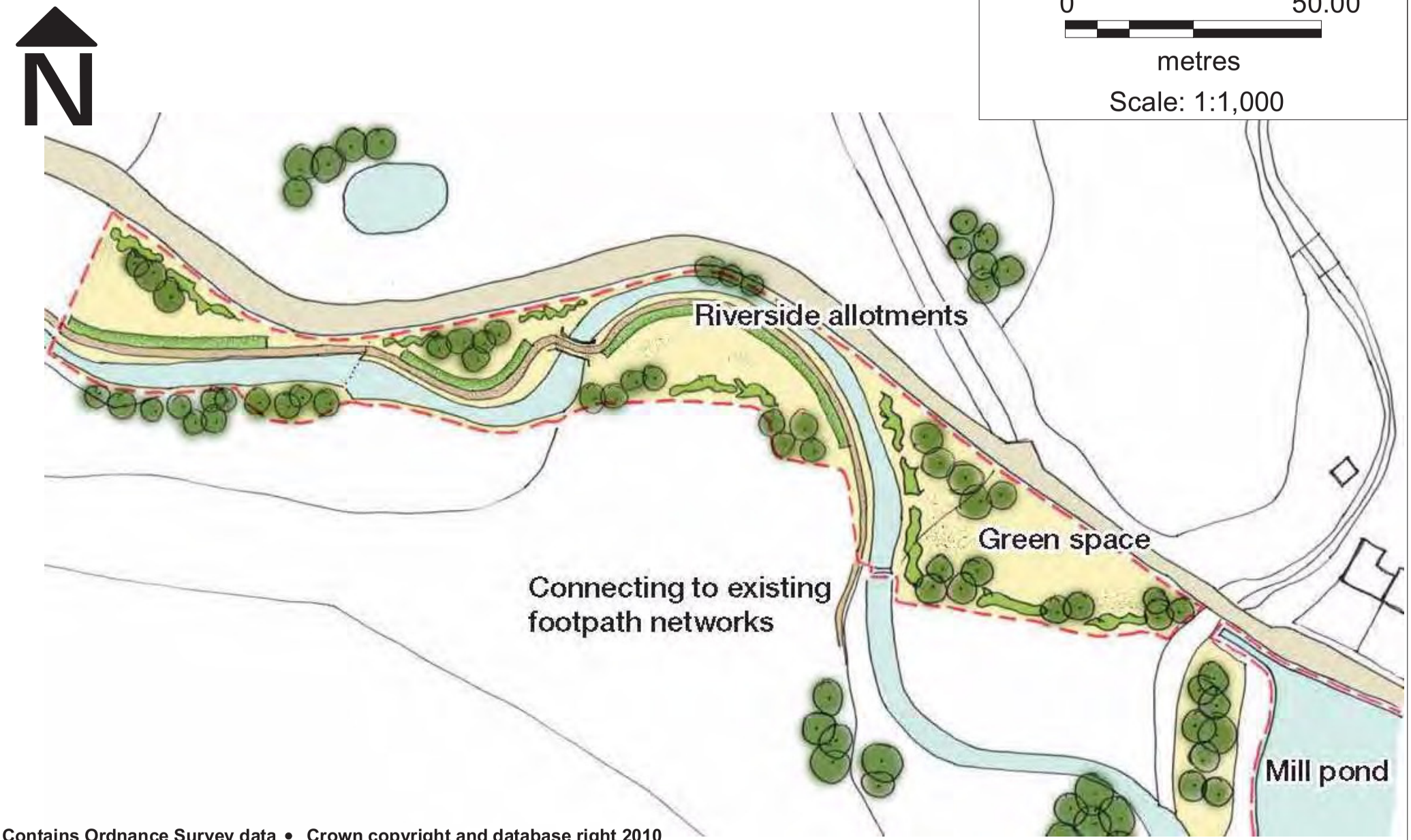

Figure 3-5: Area 5 Proposed Site Plan, Land at Malt Kiln Brow/Longridge Road, Chipping

Drawn: June 2013 Scale: See Scale Bar (approx 1:1,000 @ A4) Source: Kirk Mill Consultation Document

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Figure 4-1: Area 2 Trial Hole Sampling Location Plan, Land at Malt Kiln Brow/Longridge Road, Chipping

Drawn: June 2013 Scale: See Scale Bar (approx 1:1,000 @ A4) Source: Kirk Mill Consultation Document

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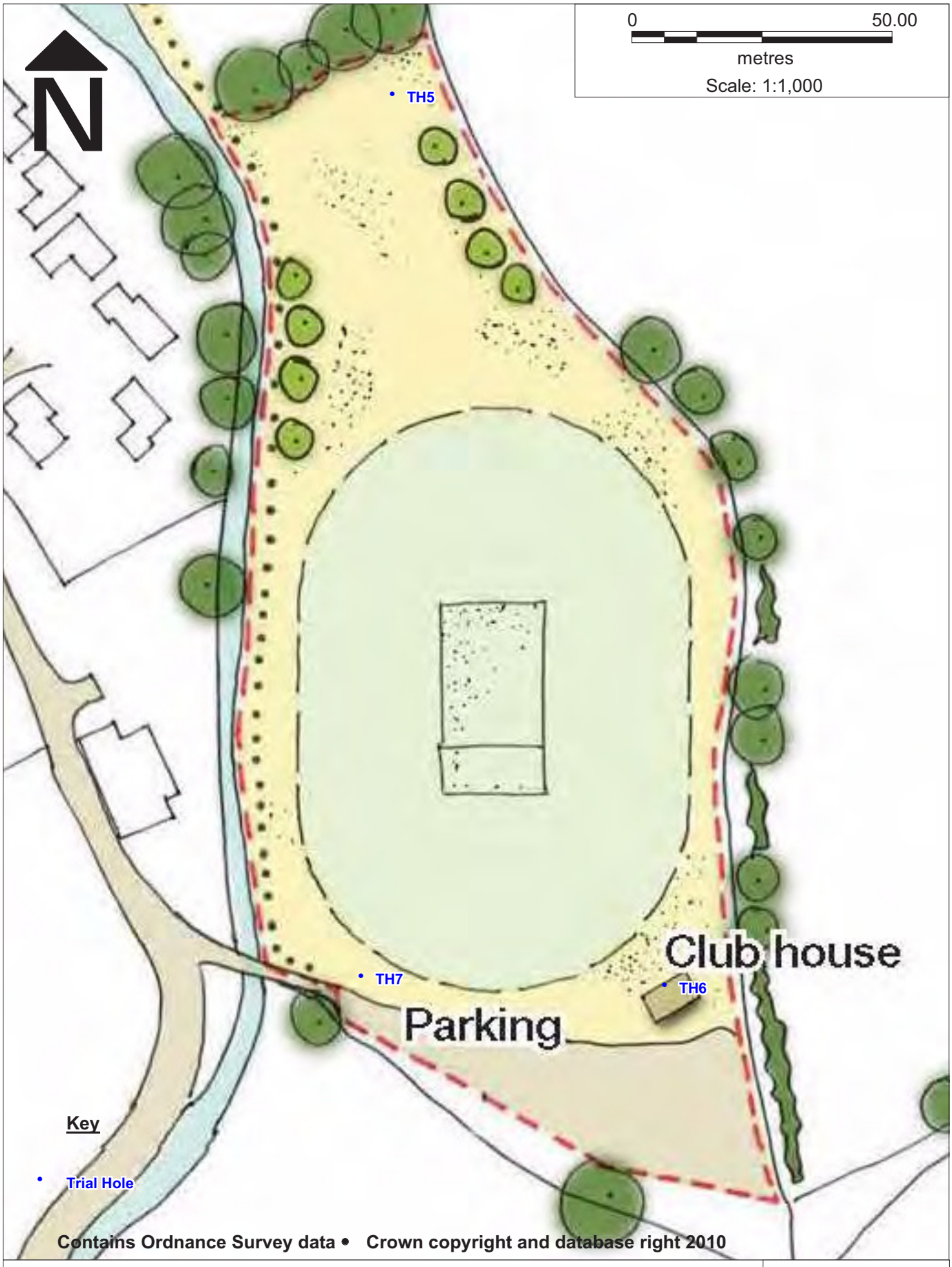

Figure 4-2: Area 4 Trial Hole Location Plan, Land at Longridge Road, Chipping

Drawn: June 2013 Scale: 1:1,000 @ A4 (see scale bar)
Source: Kirk Mill Consultation Document

LK CONSULT LIMITED

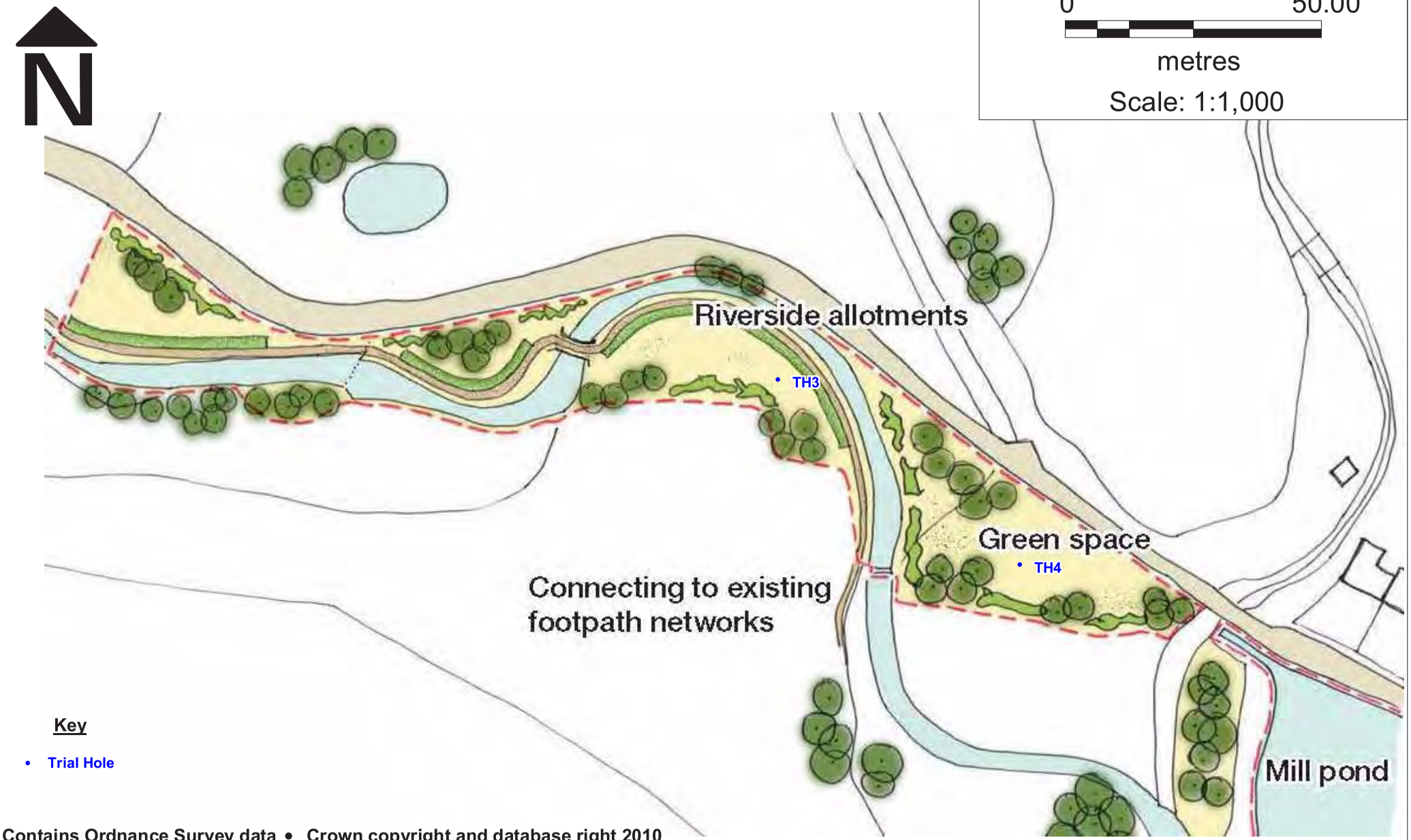

Figure 4-3: Area 5 Trial Hole Sampling Location Plan, Land at Malt Kiln Brow/Longridge Road, Chipping

Drawn: June 2013 Scale: See Scale Bar (approx 1:1,000 @ A4) Source: Kirk Mill Consultation Document

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APPENDIX A

HISTORICAL MAPS

Historical Mapping Legends

Ordnance Survey County Series 1:10,560

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

Ordnance Survey Plan 1:10,000

Chalk Pit, Clay Pit or Quarry
Gravel Pit
Sand Pit
Disused Pit or Quarry
Refuse or Slag Heap
Lake, Loch or Pond
Dunes
Boulders
Coniferous Trees
Non-Coniferous Trees
Orchard
Scrub
Coppice
Bracken
Heath
Rough Grassland
Marsh
Reeds
Saltings
Building
Direction of Flow of Water
Shingle
Sand
Glasshouse
Pylon
Electricity Transmission Line
Pole
Sloping Masonry
Cutting
Embankment
Standard Gauge Multiple Track
Standard Gauge Single Track
Road Under
Road Over
Level Crossing
Foot Bridge
Siding, Tramway or Mineral Line
Narrow Gauge
Geographical County
Administrative County, County Borough or County of City
Municipal Borough, Urban or Rural District, Burgh or District Council
Borough, Burgh or County Constituency
Shown only when not coincident with other boundaries
Civil Parish
Shown alternately when coincidence of boundaries occurs

BP, BS	Boundary Post or Stone	Pol Sta	Police Station
Ch	Church	PO	Post Office
CH	Club House	PC	Public Convenience
F E Sta	Fire Engine Station	PH	Public House
FB	Foot Bridge	SB	Signal Box
Fn	Fountain	Spr	Spring
GP	Guide Post	TCB	Telephone Call Box
MP	Mile Post	TCP	Telephone Call Post
MS	Mile Stone	W	Well

1:10,000 Raster Mapping

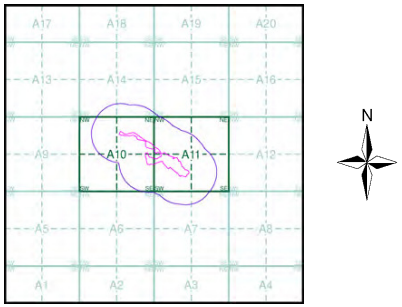
Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or community boundary
District, Unitary, Metropolitan, London Borough boundary
Constituency boundary
Area of wooded vegetation
Non-coniferous trees
Non-coniferous trees (scattered)
Coniferous trees
Coniferous trees (scattered)
Positioned tree
Orchard
Coppice or Osiers
Rough Grassland
Heath
Scrub
Marsh, Salt Marsh or Reeds
Water feature
Flow arrows
MHW(S) Mean high water (springs)
MLW(S) Mean low water (springs)
Telephone line (where shown)
Electricity transmission line (with poles)
BM 123.45 m Bench mark (where shown)
Triangulation station
Point feature (e.g. Guide Post or Mile Stone)
Pylon, flare stack or lighting tower
Site of (antiquity)
Glasshouse
General Building
Important Building

LK CONSULT LIMITED

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1846 - 1847	2
Yorkshire	1:10,560	1850	3
Lancashire And Furness	1:10,560	1895	4
Yorkshire	1:10,560	1896	5
Lancashire And Furness	1:10,560	1913 - 1914	6
Lancashire And Furness	1:10,560	1913	7
Lancashire And Furness	1:10,560	1933	8
Ordnance Survey Plan	1:10,000	1956	9
Ordnance Survey Plan	1:10,000	1971	10
Ordnance Survey Plan	1:10,000	1987	11
10K Raster Mapping	1:10,000	2006	12
10K Raster Mapping	1:10,000	2012	13

Historical Map - Slice A



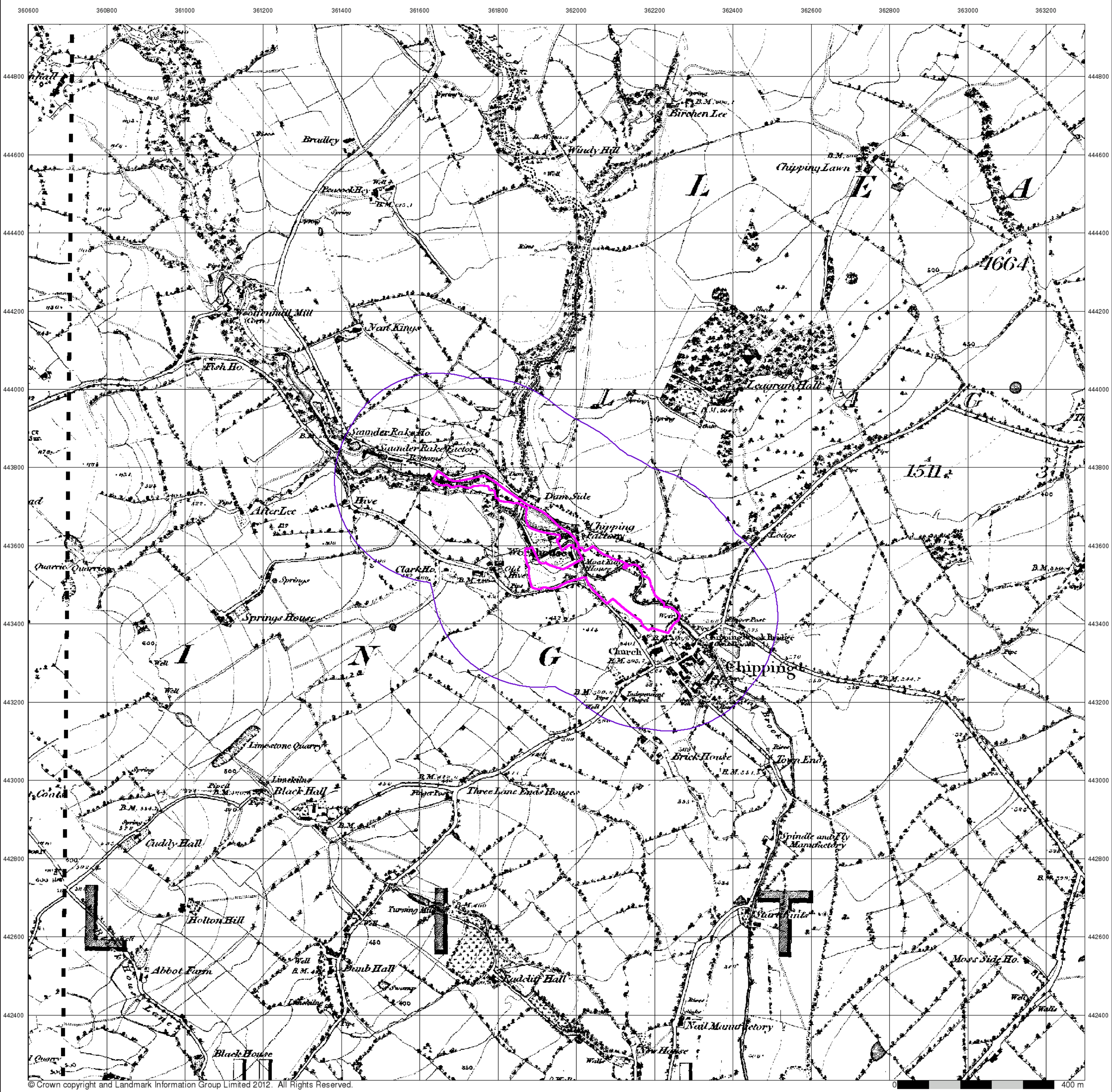
Order Details

Order Number: 45491088_1_1
Customer Ref: LKC 13 1086
National Grid Reference: 361950, 443590
Slice: A
Site Area (Ha): 4.4
Search Buffer (m): 250

Site Details

Land at Malt Kiln Lane, Chipping, Preston, PR3 2GP

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



LK CONSULT LIMITED

Lancashire And Furness

Published 1846 - 1847

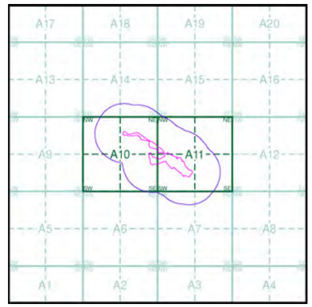
Source map scale - 1:10,560

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)

04500 1846 1:10,560	04600 1847 1:10,560

Historical Map - Slice A



Order Details

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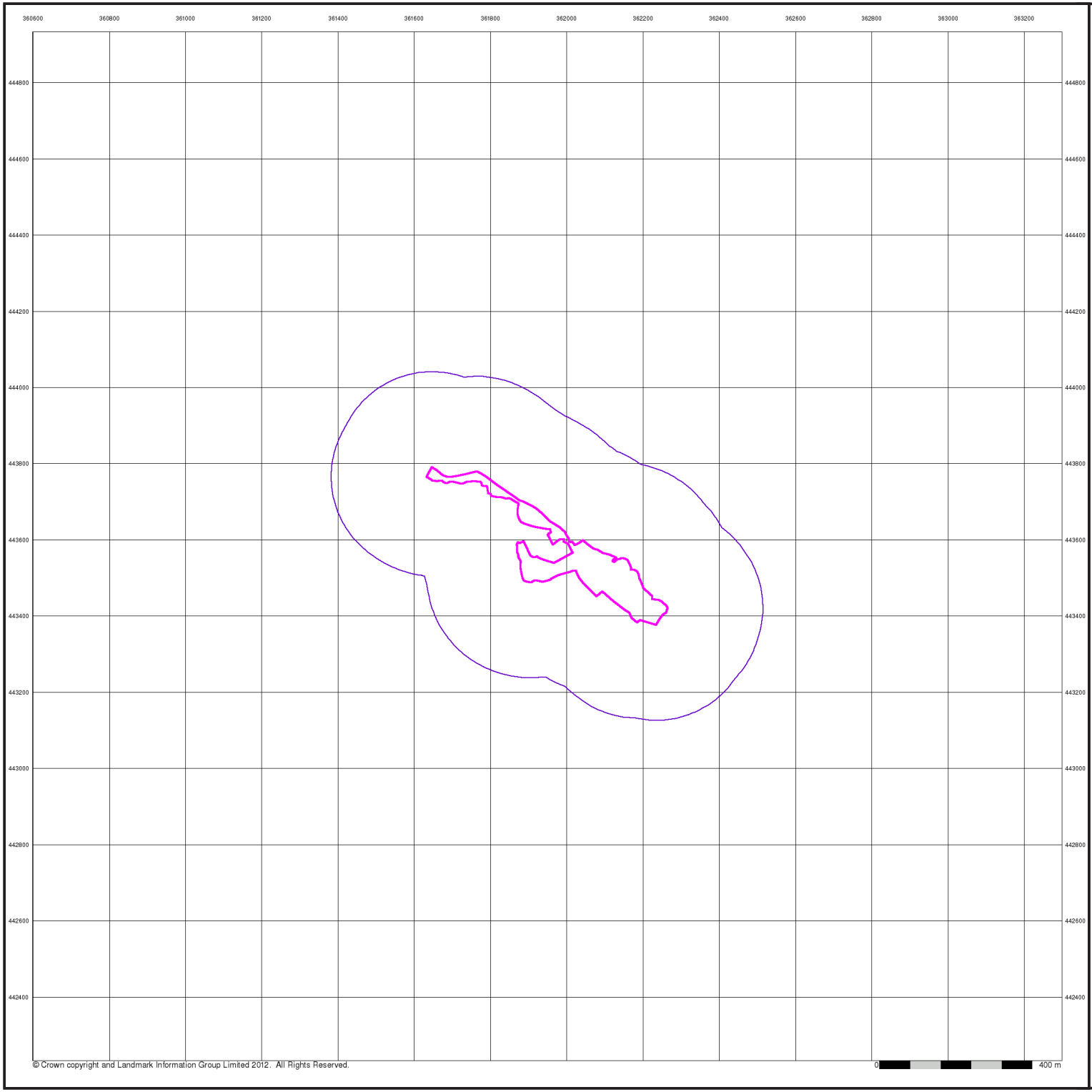


LK CONSULT LIMITED

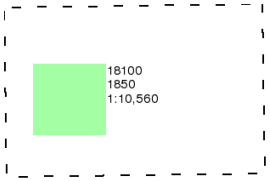
Yorkshire

Published 1850

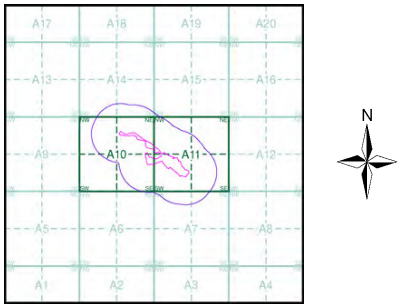
Source map scale - 1:10,560

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:	45491088_1_1
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National Grid Reference:	361950, 443590
Slice:	A
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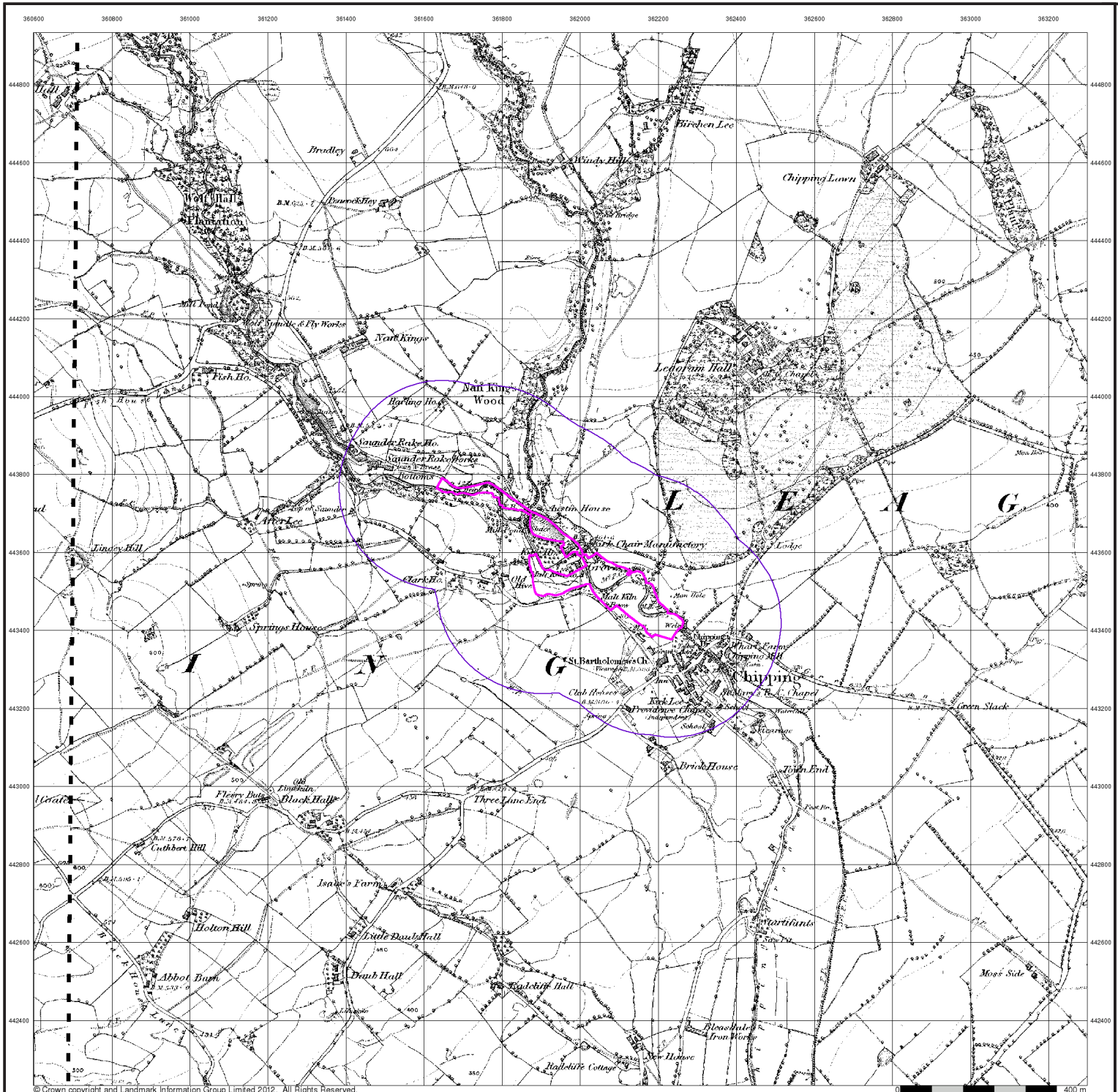


LK CONSULT LIMITED

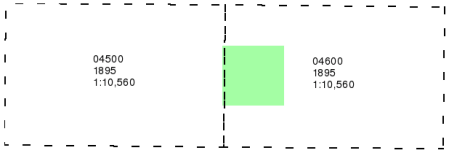
Lancashire And Furness

Published 1895

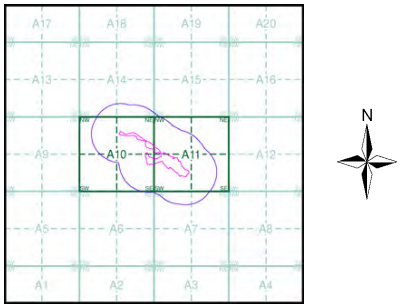
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

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National Grid Reference:	361950, 443590
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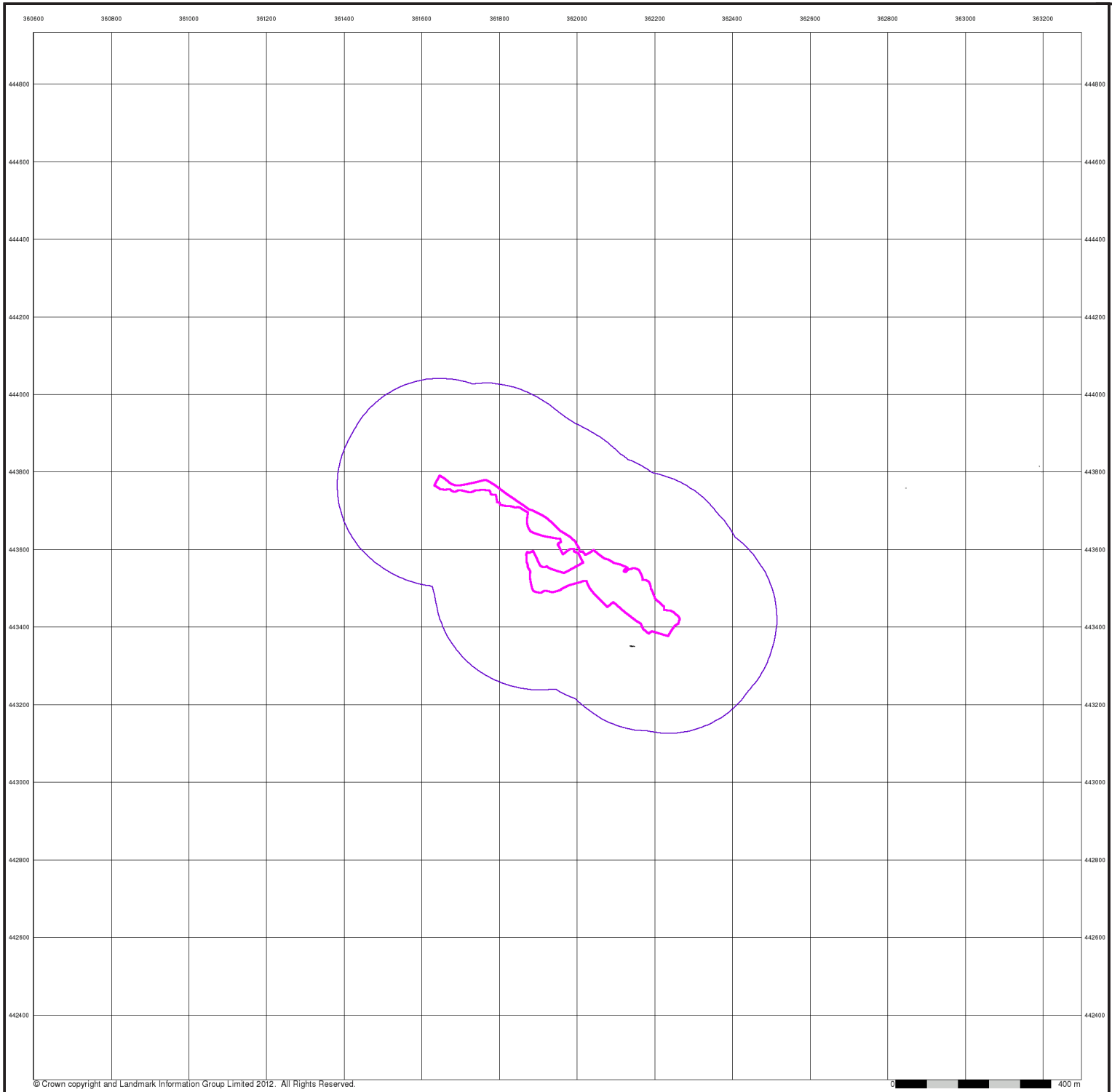

LK CONSULT LIMITED

Yorkshire

Published 1896

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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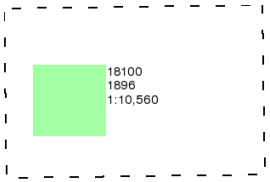
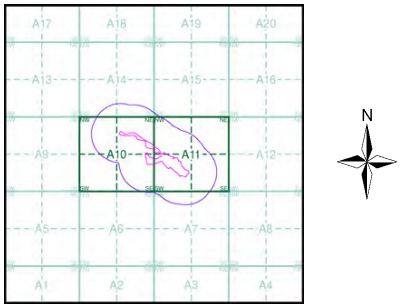


Historical Map - Slice A



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National Grid Reference:	361950, 443590
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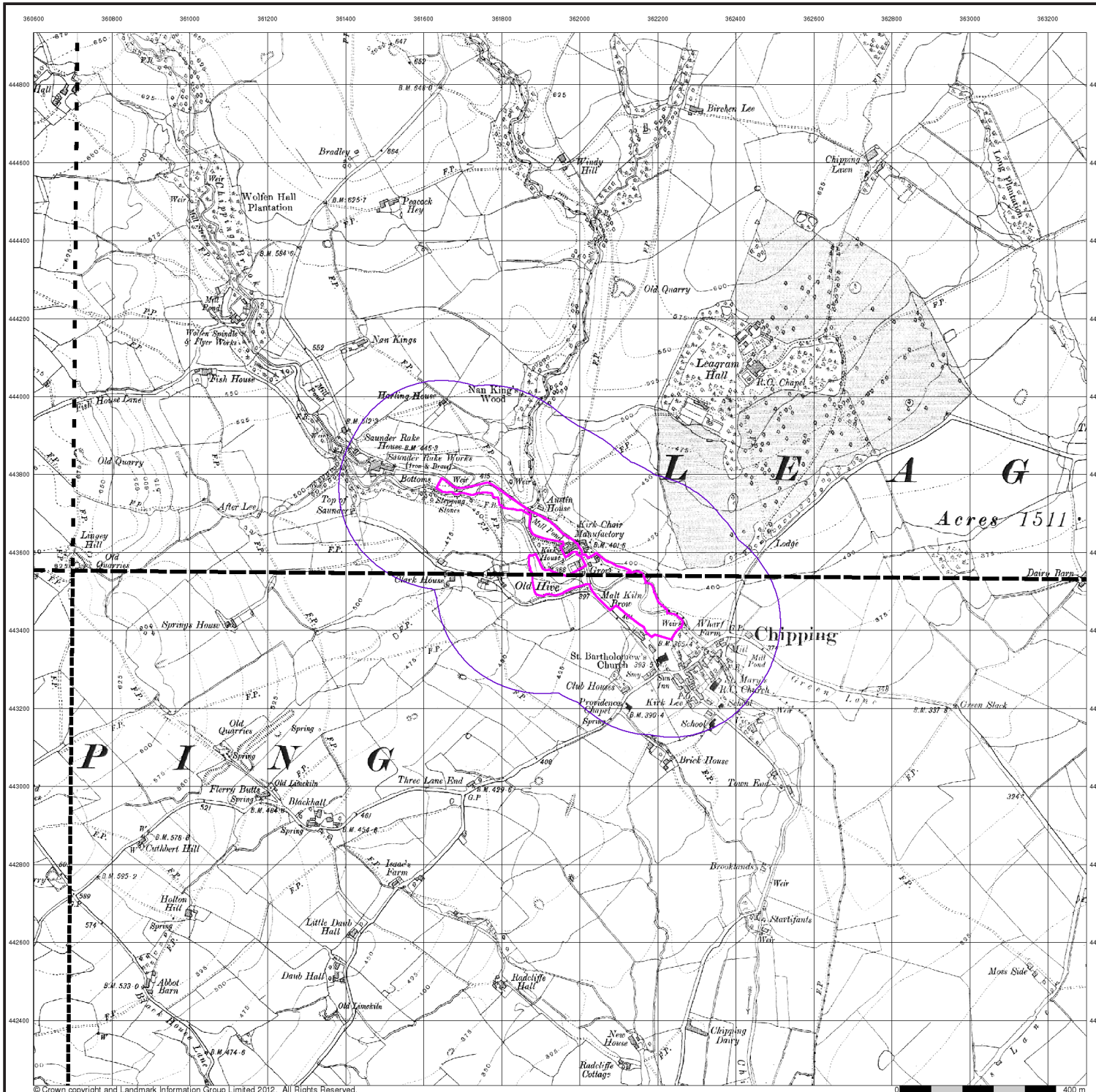

LK CONSULT LIMITED

Lancashire And Furness

Published 1913 - 1914

Source map scale - 1:10,560

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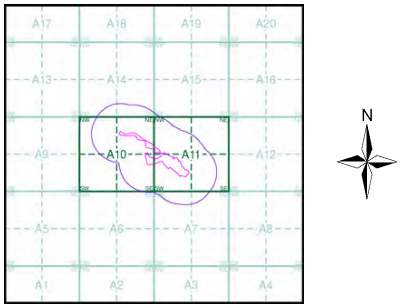
Map Name(s) and Date(s)

045NE 1913 1:10,560	046NW 1914 1:10,560
045SE 1913 1:10,560	046SW 1913 1:10,560

Historical Map - Slice A



Order Details

Order Number:	45491088_1_1
Customer Ref:	LKC 13 1086
National Grid Reference:	361950, 443590
Slice:	A
Site Area (Ha):	4.4
Search Buffer (m):	250

Site Details

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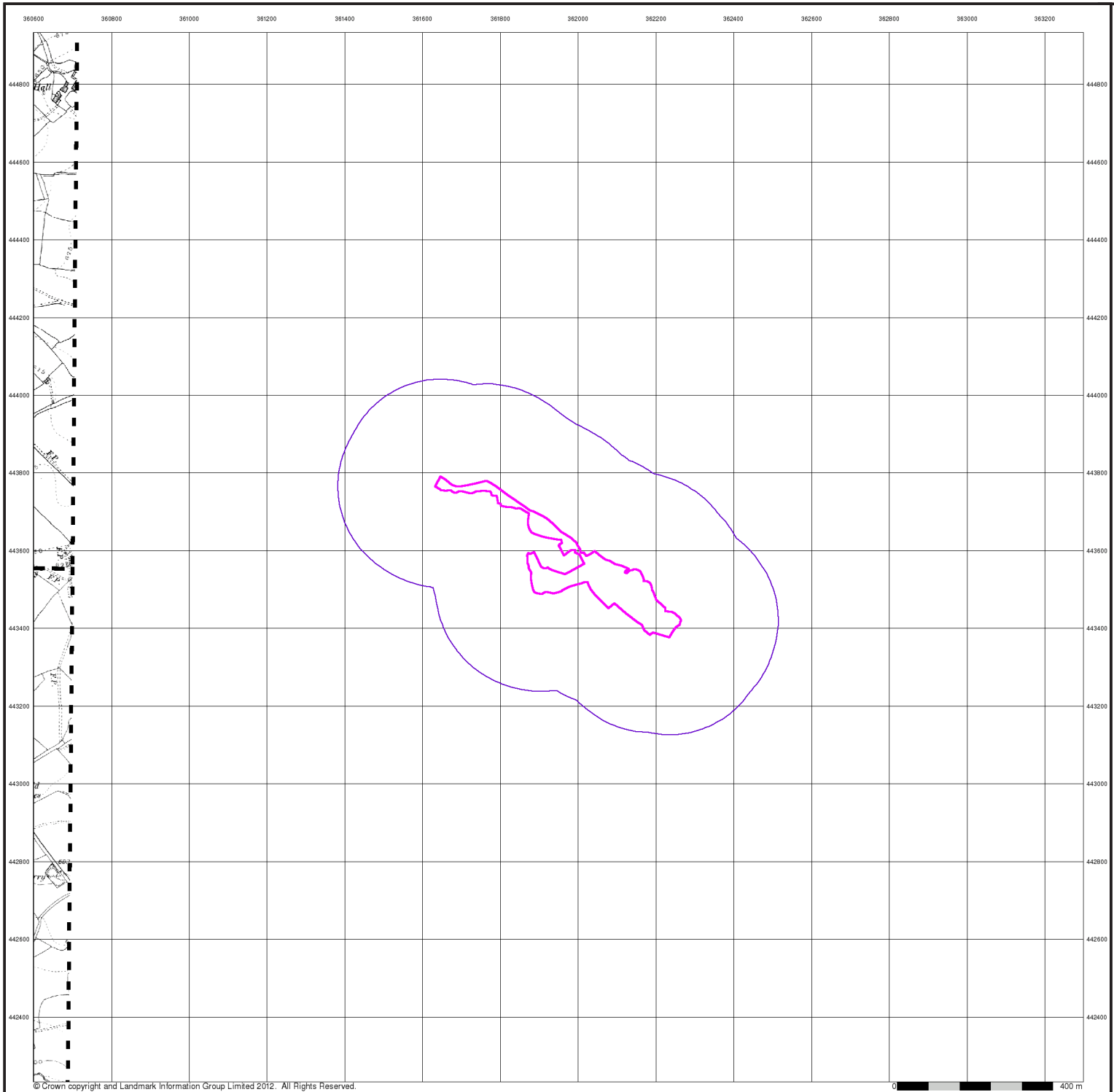

LK CONSULT LIMITED

Lancashire And Furness

Published 1913

Source map scale - 1:10,560

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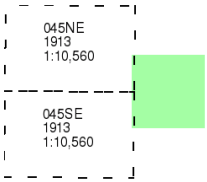
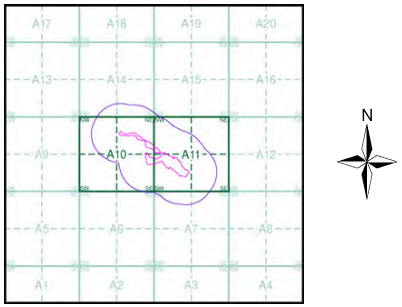
Map Name(s) and Date(s)



Historical Map - Slice A

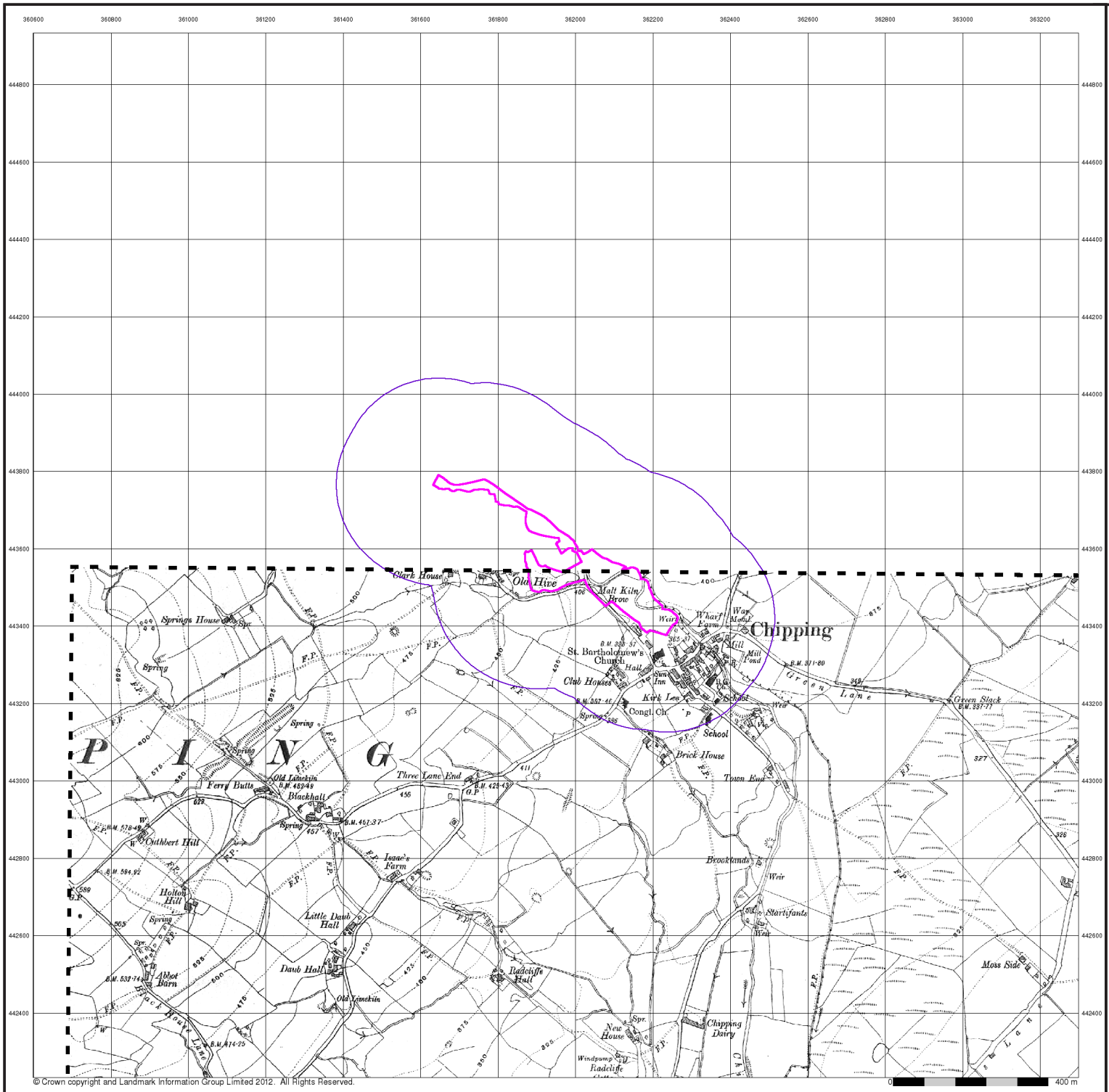


Order Details

Order Number:	45491088_1_1
Customer Ref:	LKC 13 1086
National Grid Reference:	361950, 443590
Slice:	A
Site Area (Ha):	4.4
Search Buffer (m):	250

Site Details

Land at Malt Kiln Lane, Chipping, Preston, PR3 2GP



LK CONSULT LIMITED

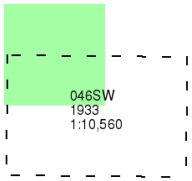
Lancashire And Furness

Published 1933

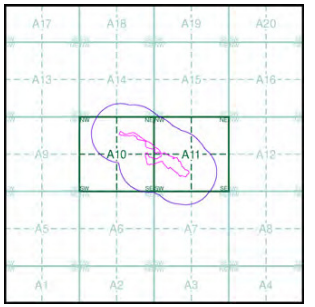
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



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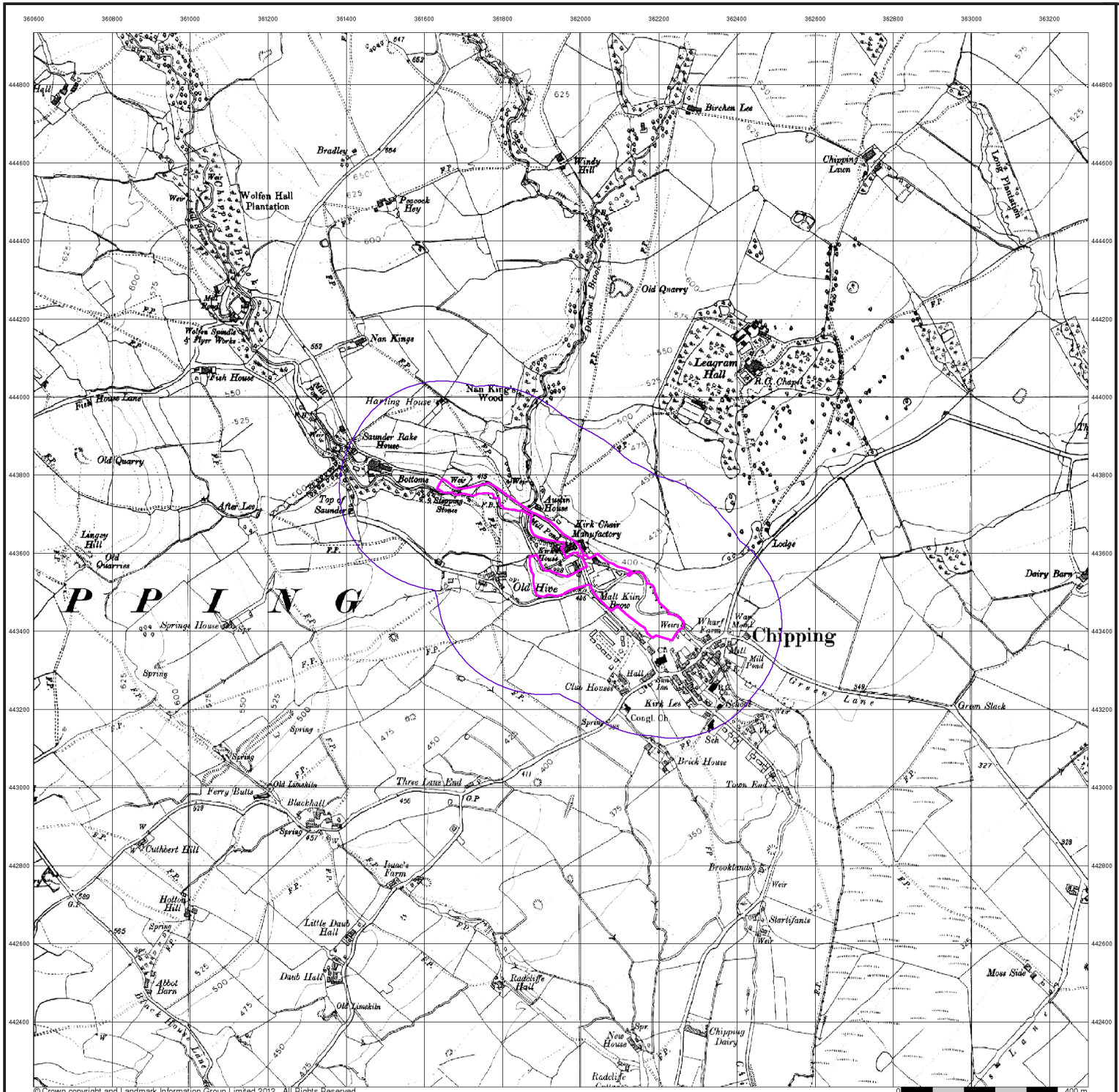

LK CONSULT LIMITED

Ordnance Survey Plan

Published 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.

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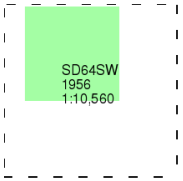
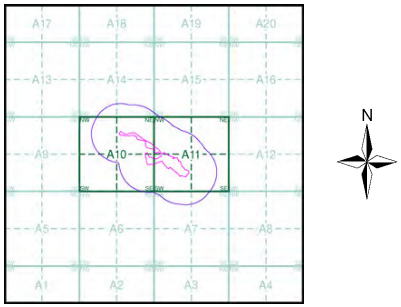


Historical Map - Slice A



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Customer Ref:	LKC 13 1086
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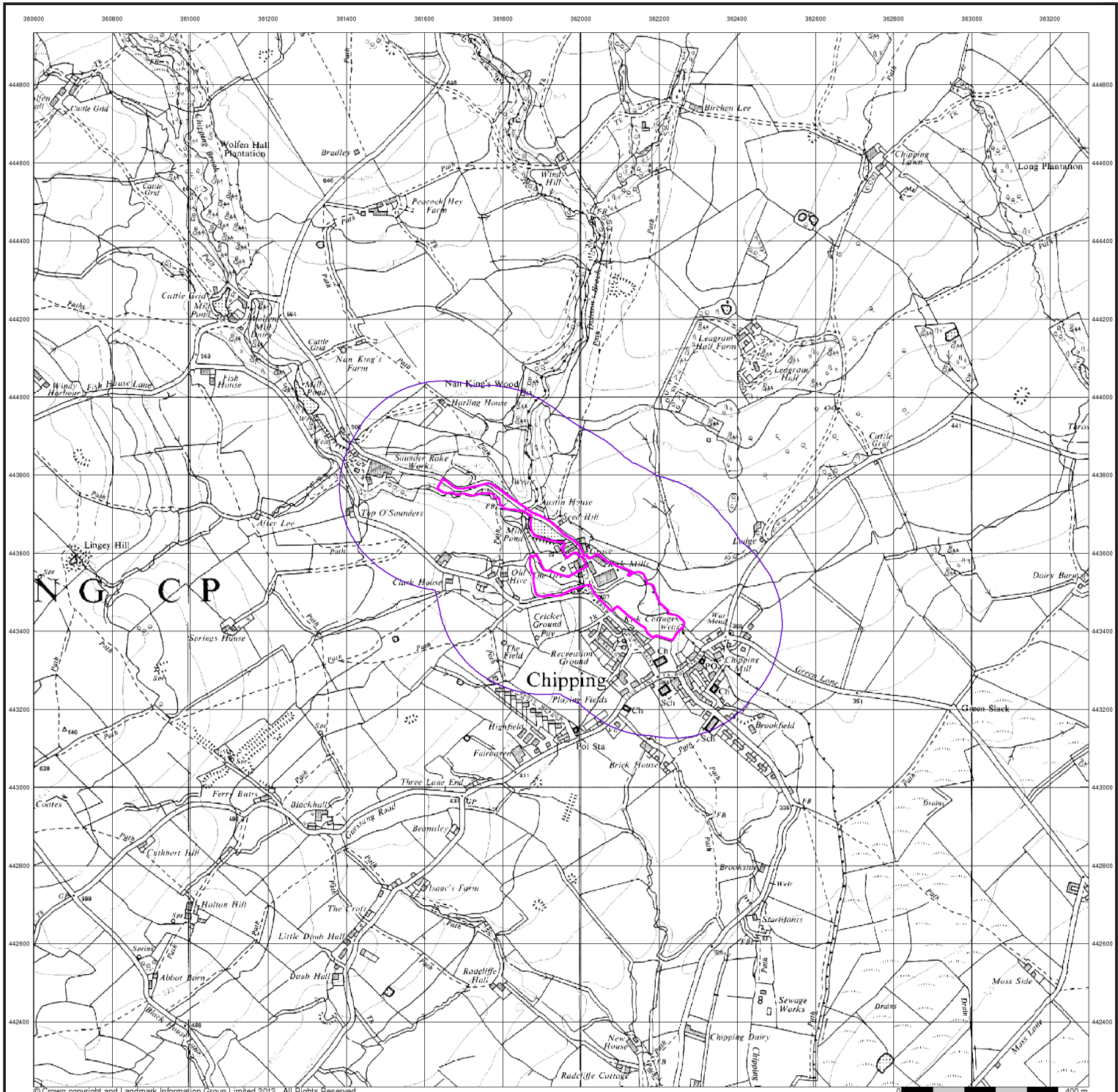

LK CONSULT LIMITED

Ordnance Survey Plan

Published 1971

Source map scale - 1:10,000

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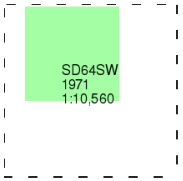
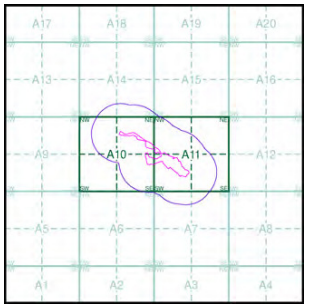
Map Name(s) and Date(s)



Historical Map - Slice A



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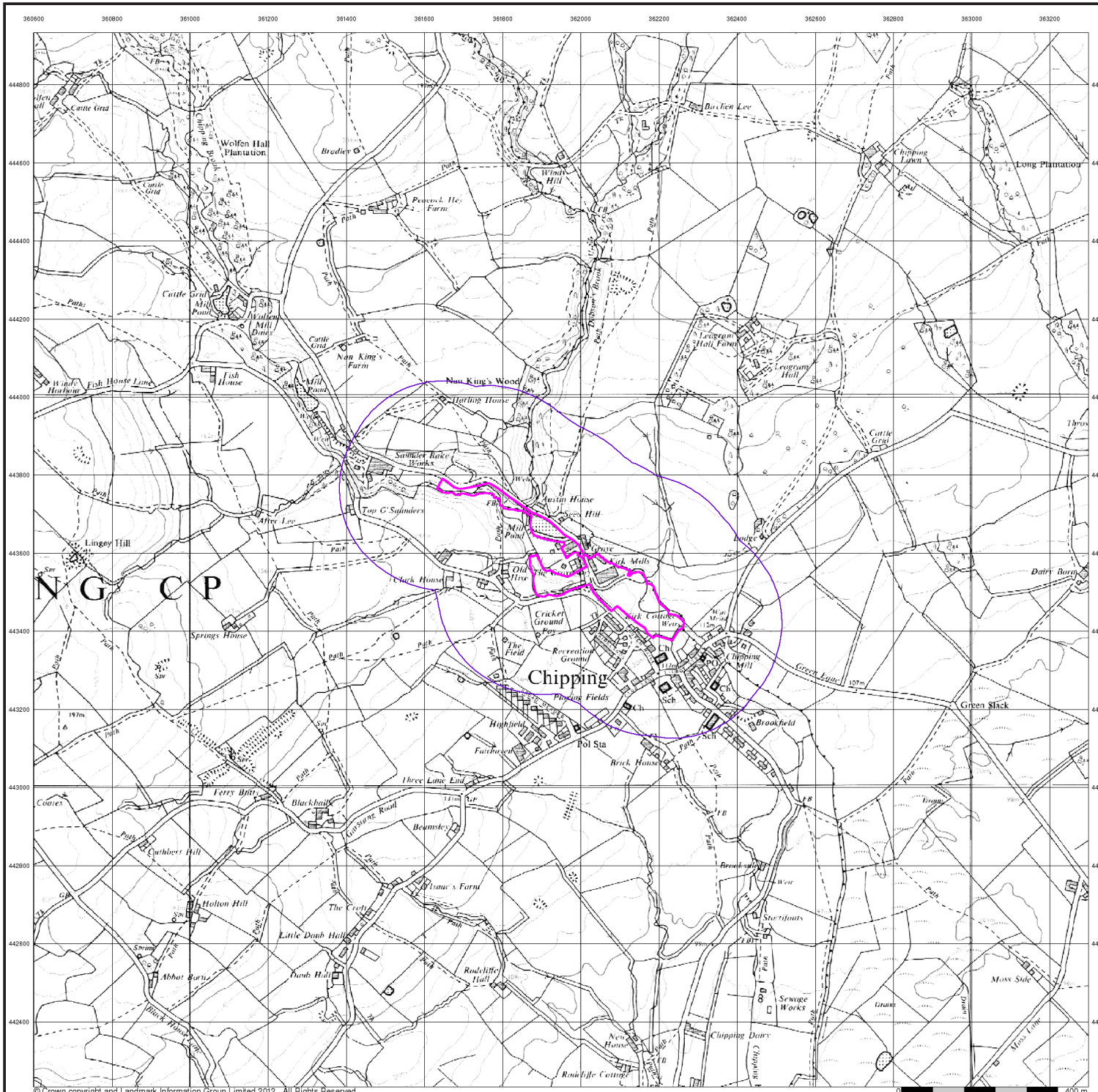

LK CONSULT LIMITED

Ordnance Survey Plan

Published 1987

Source map scale - 1:10,000

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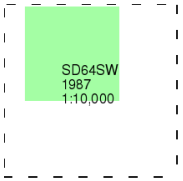
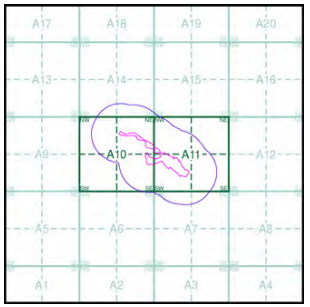


Historical Map - Slice A



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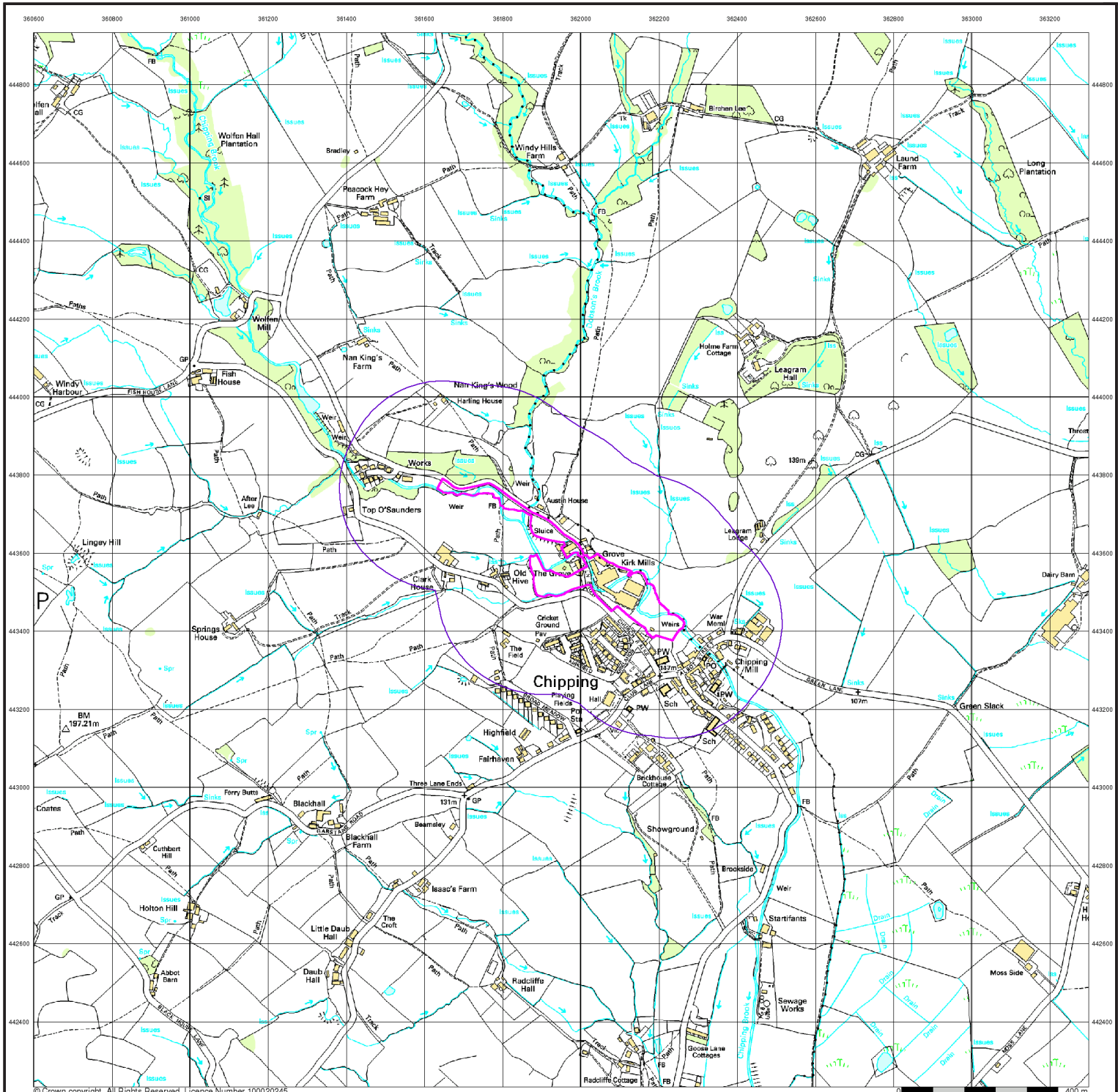


LK CONSULT LIMITED

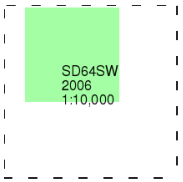
10k Raster Mapping

Published 2006

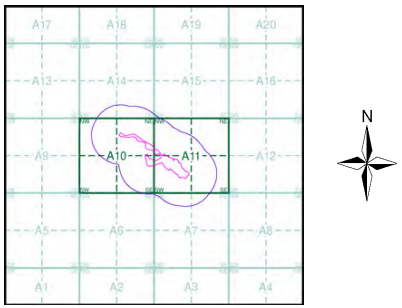
Source map scale - 1:10,000

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:	45491088_1_1
Customer Ref:	LKC 13 1086
National Grid Reference:	361950, 443590
Slice:	A
Site Area (Ha):	4.4
Search Buffer (m):	250

Site Details

Land at Malt Kiln Lane, Chipping, Preston, PR3 2GP

Landmark Information Group
Tel: 0844 844 9952
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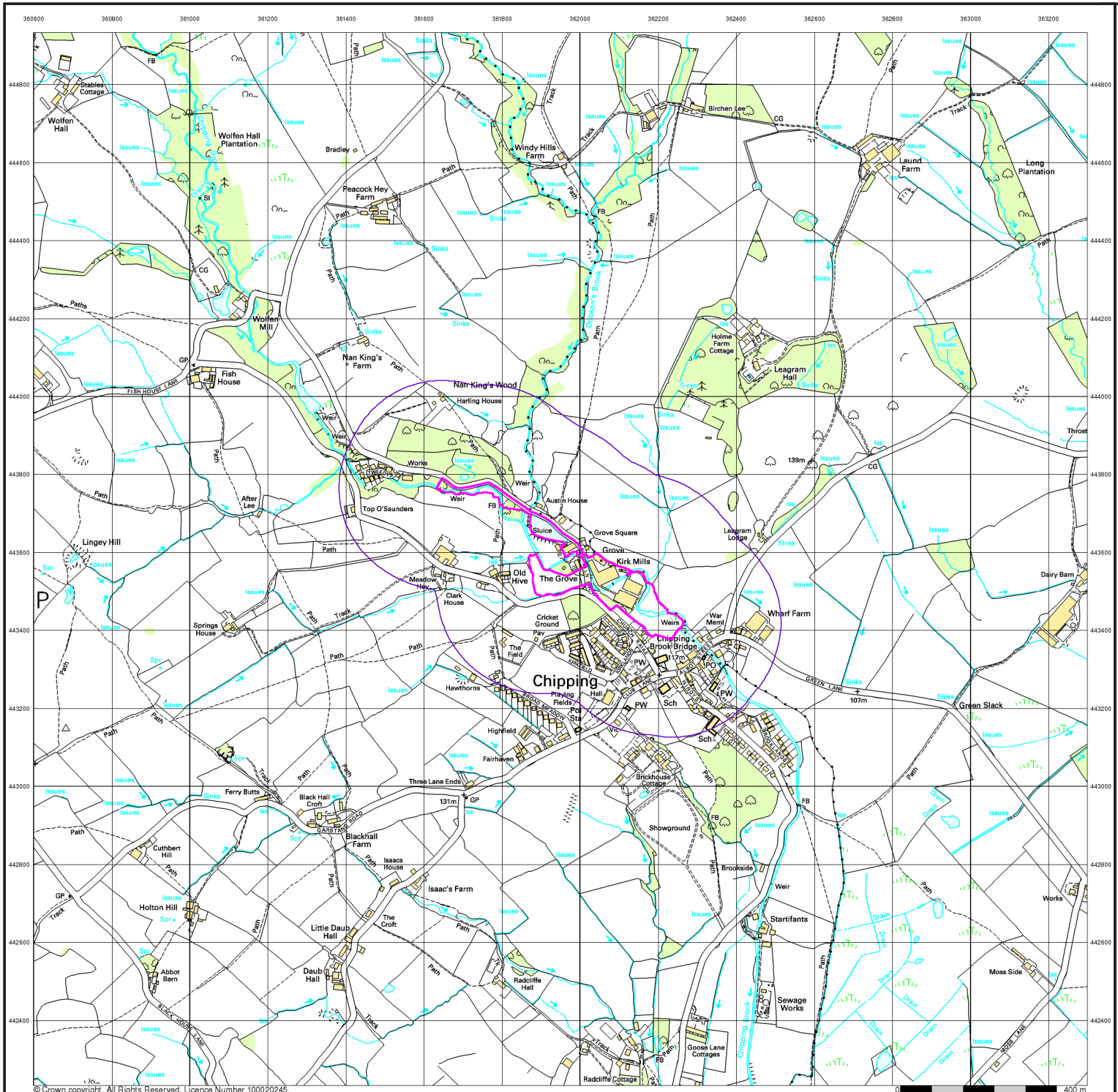
Web: www.envirocheck.co.uk



LK CONSULT LIMITED

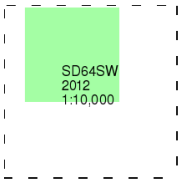
10k Raster Mapping

Published 2012

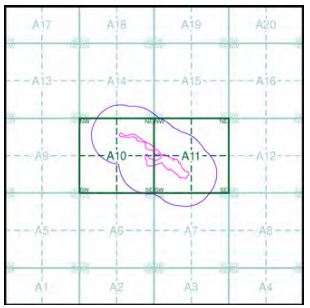
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number:	45491088_1_1
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National Grid Reference:	361950, 443590
Slice:	A
Site Area (Ha):	4.4
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Site Details

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Landmark Information Group

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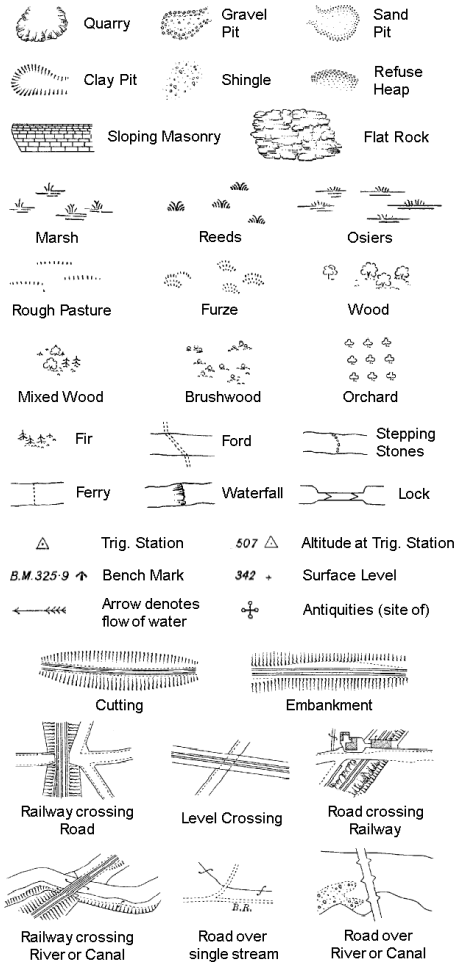
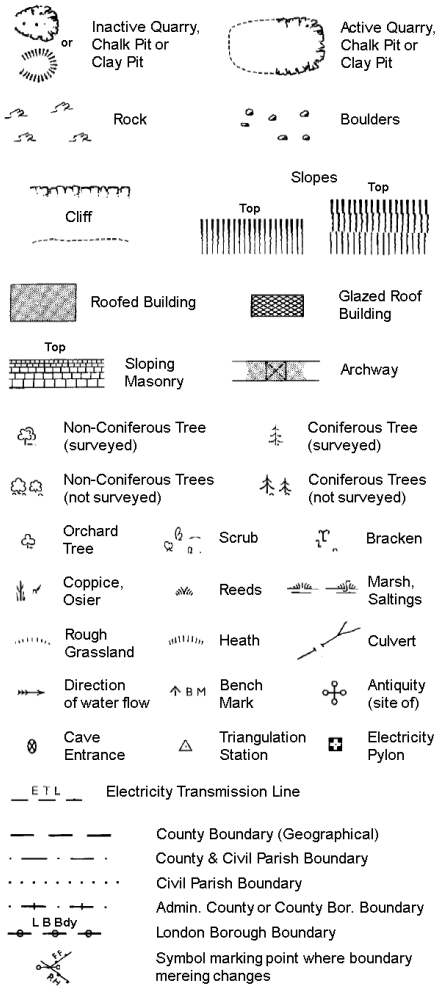
Historical Mapping Legends

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



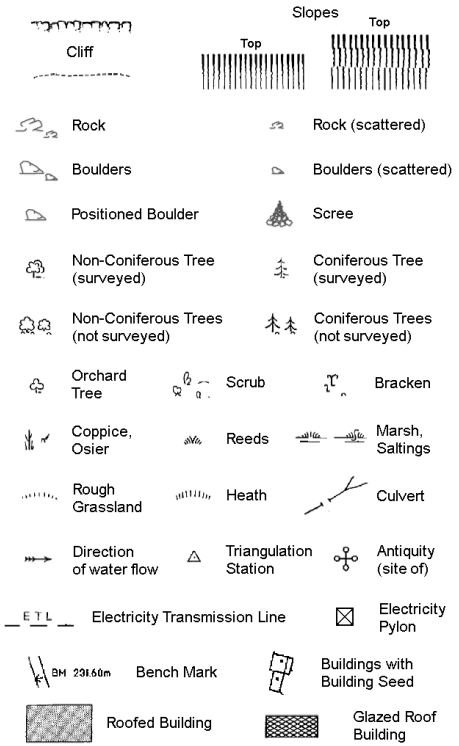
B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	St.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

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



BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

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



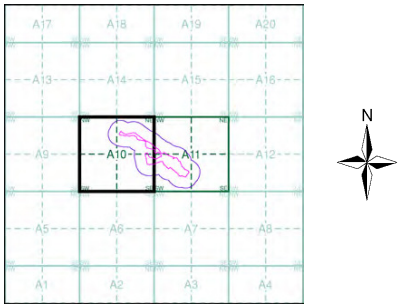
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governer	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

LK CONSULT LIMITED

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:2,500	1892 - 1893	2
Lancashire And Furness	1:2,500	1912	3
Lancashire And Furness	1:2,500	1932	4
Ordnance Survey Plan	1:2,500	1968	5
Large-Scale National Grid Data	1:2,500	1994	6
Large-Scale National Grid Data	1:2,500	1996	7

Historical Map - Segment A10



Order Details

Order Number: 45491088_1_1
Customer Ref: LKC 13 1086
National Grid Reference: 361950, 443590
Slice: A
Site Area (Ha): 4.4
Search Buffer (m): 100

Site Details

Land at Malt Kiln Lane, Chipping, Preston, PR3 2GP

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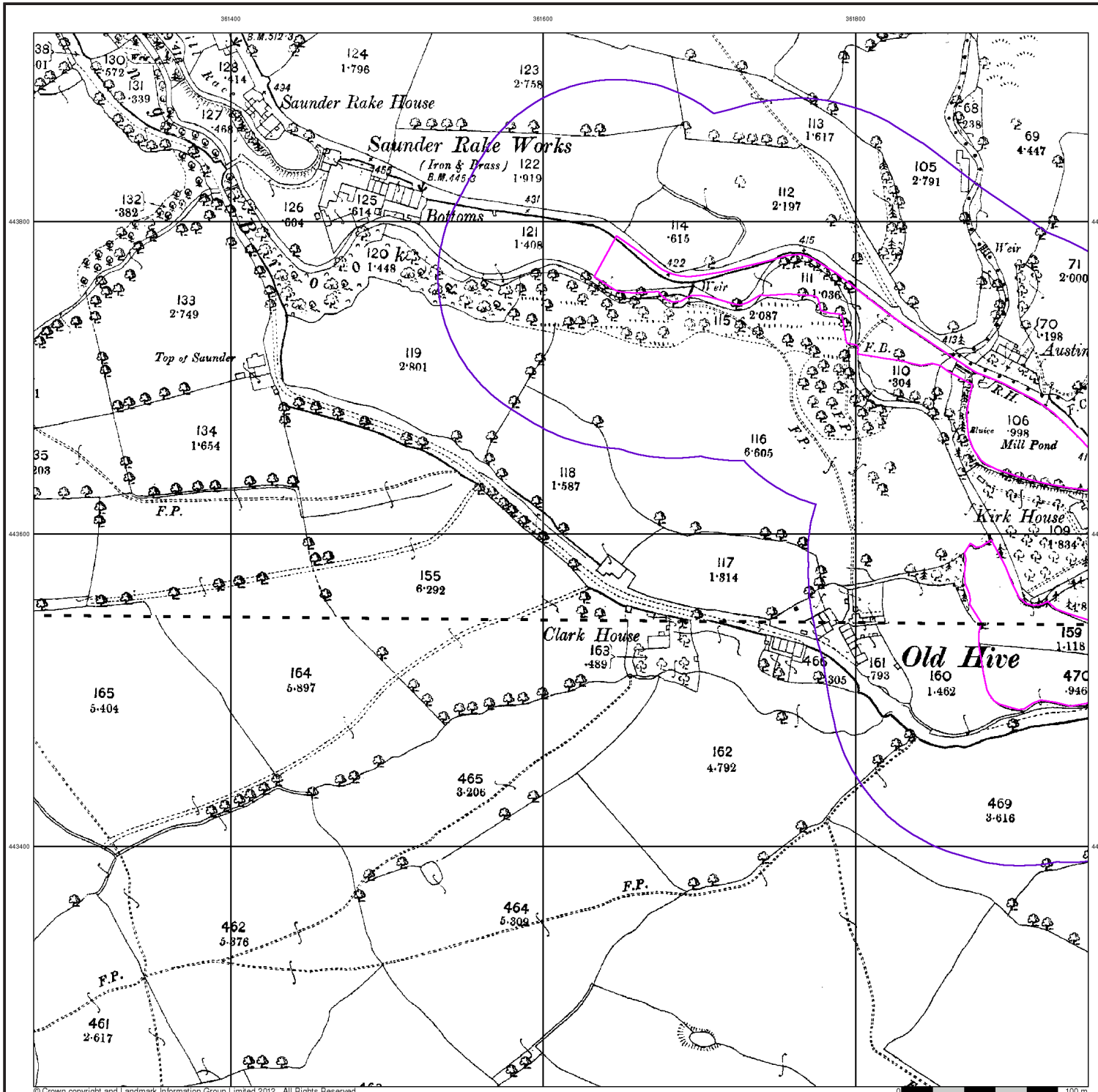


LK CONSULT LIMITED

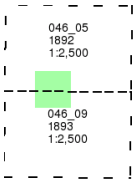
Lancashire And Furness

Published 1892 - 1893

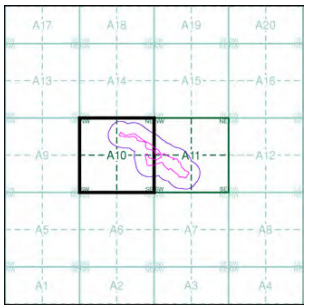
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A10



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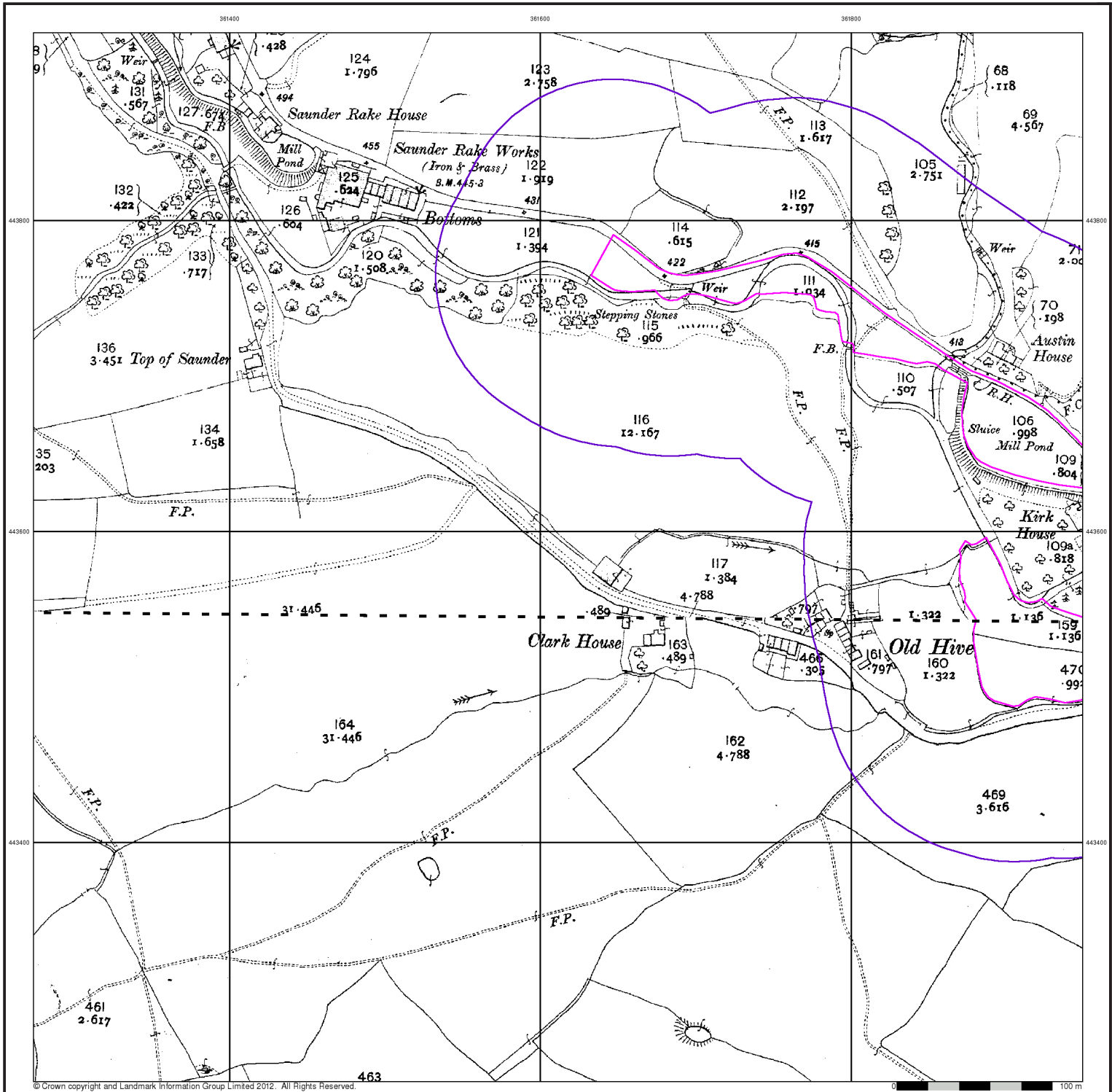

LK CONSULT LIMITED

Lancashire And Furness

Published 1912

Source map scale - 1:2,500

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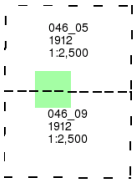
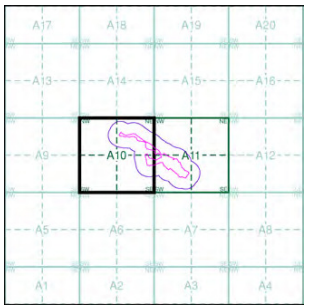
Map Name(s) and Date(s)



Historical Map - Segment A10



Order Details

Order Number:	45491088_1_1
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National Grid Reference:	361950, 443590
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Site Area (Ha):	4.4
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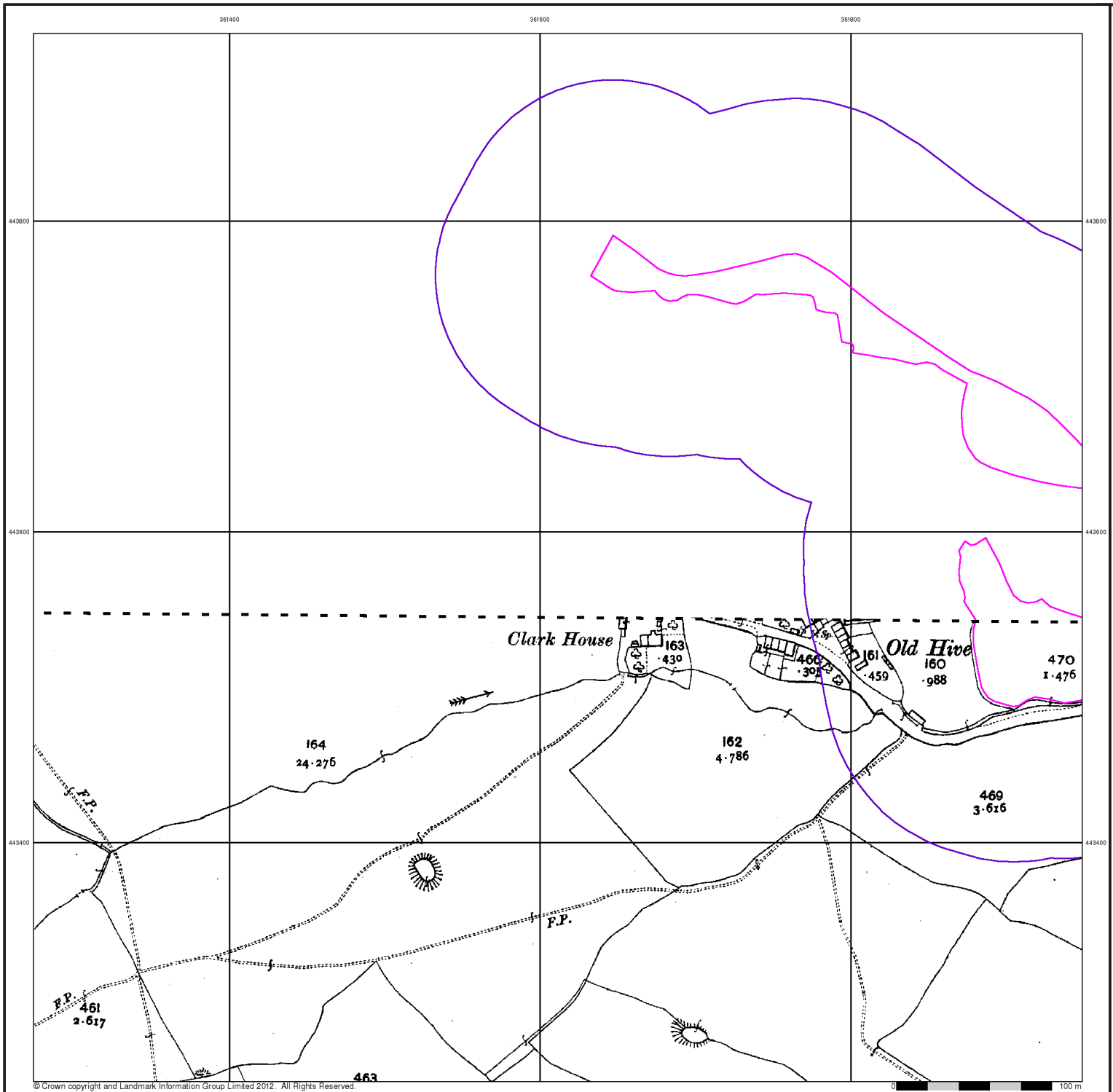

LK CONSULT LIMITED

Lancashire And Furness

Published 1932

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.

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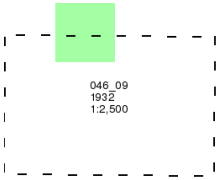
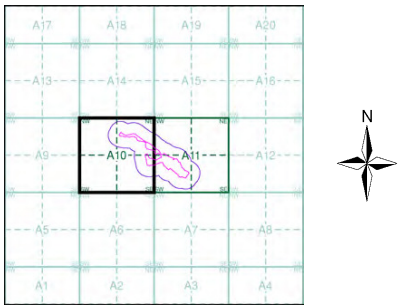


Historical Map - Segment A10



Order Details

Order Number:	45491088_1_1
Customer Ref:	LKC 13 1086
National Grid Reference:	361950, 443590
Slice:	A
Site Area (Ha):	4.4
Search Buffer (m):	100

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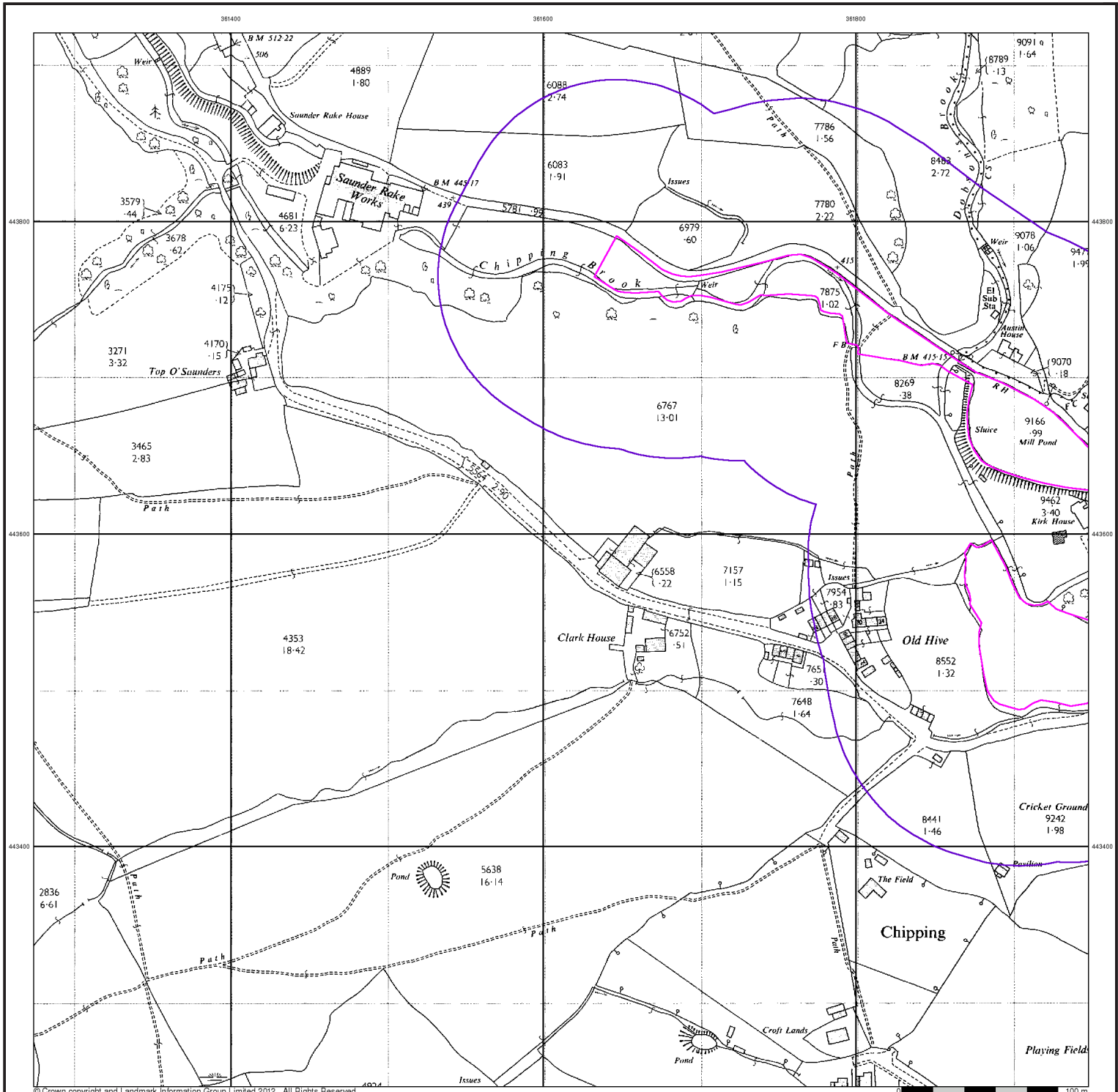

LK CONSULT LIMITED

Ordnance Survey Plan

Published 1968

Source map scale - 1:2,500

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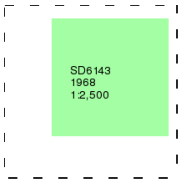
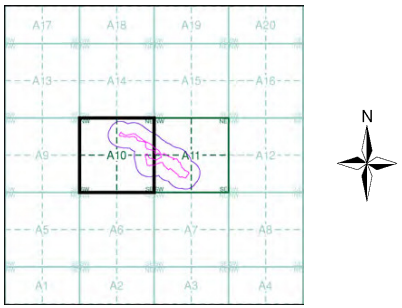
Map Name(s) and Date(s)



Historical Map - Segment A10



Order Details

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National Grid Reference:	361950, 443590
Slice:	A
Site Area (Ha):	4.4
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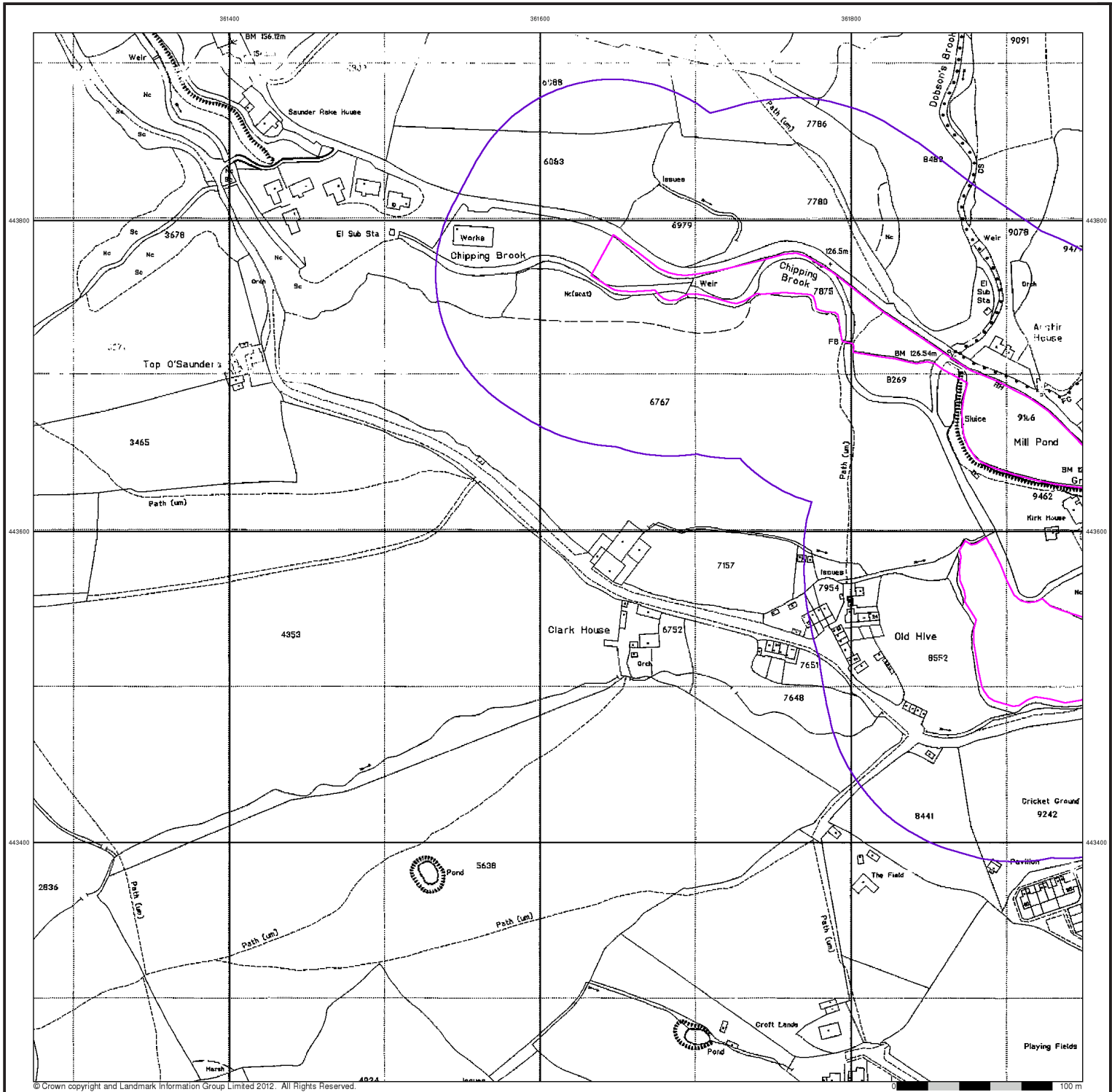


LK CONSULT LIMITED

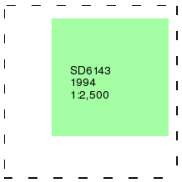
Large-Scale National Grid Data

Published 1994

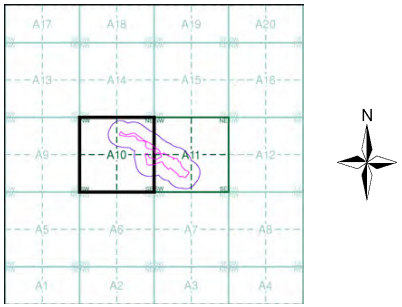
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A10



Order Details

Order Number:	45491088_1_1
Customer Ref:	LKC 13 1086
National Grid Reference:	361950, 443590
Slice:	A
Site Area (Ha):	4.4
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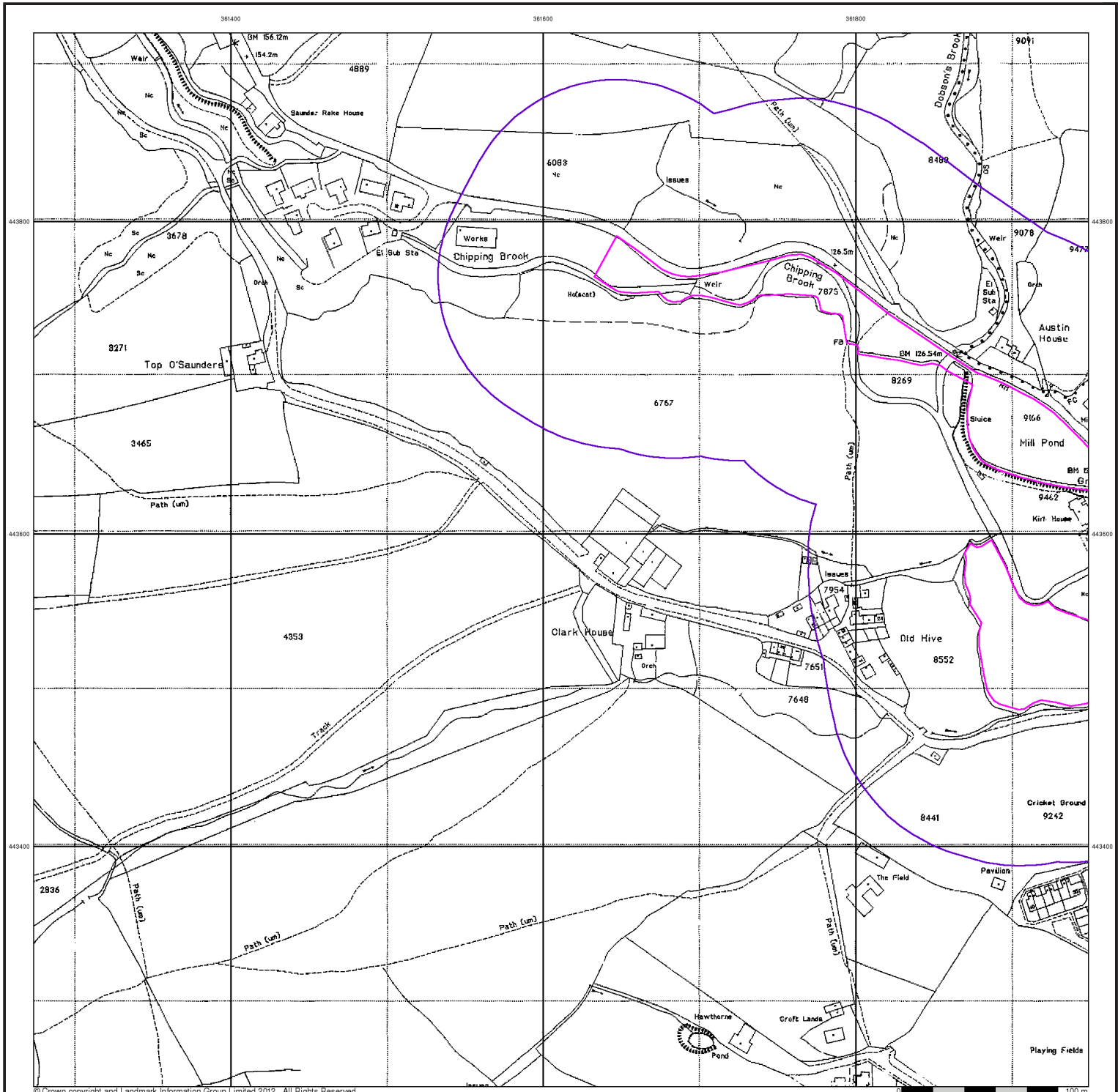

LK CONSULT LIMITED

Large-Scale National Grid Data

Published 1996

Source map scale - 1:2,500

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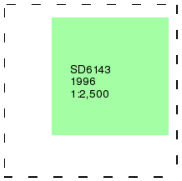
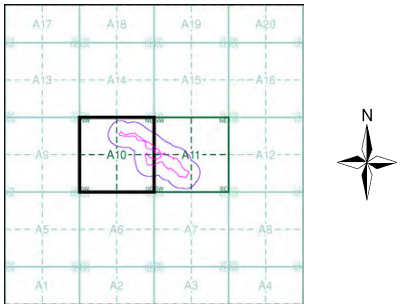
Map Name(s) and Date(s)



Historical Map - Segment A10



Order Details

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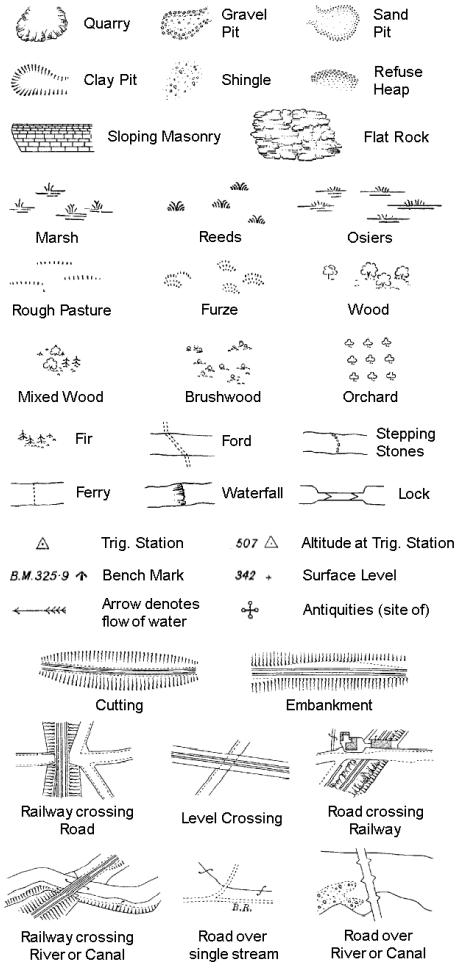
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	St.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
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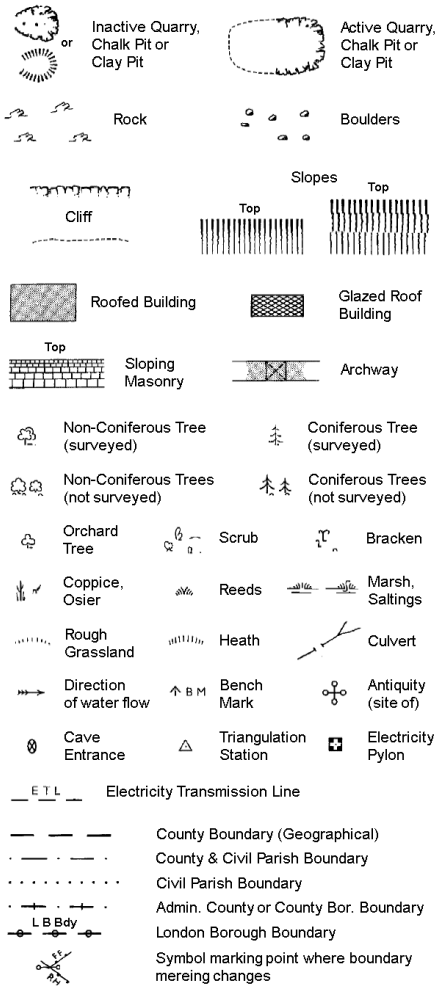
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



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FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
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H	Hydrant or Hydraulic	TCB	Telephone Call Box
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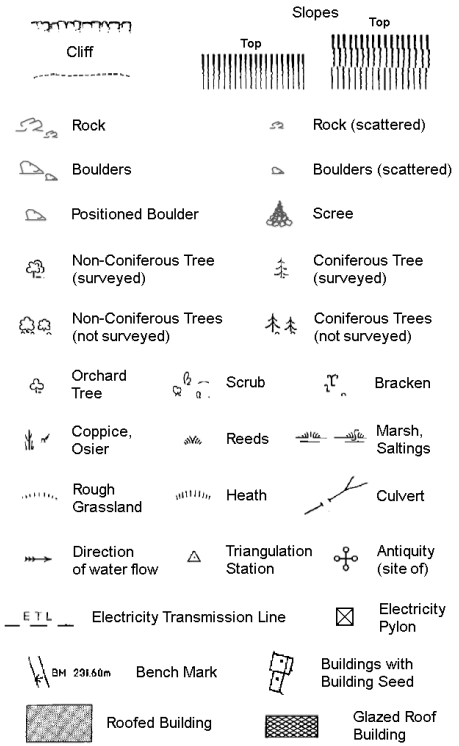
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

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



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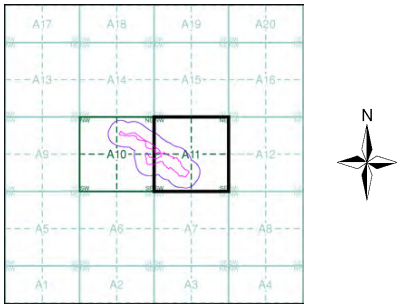
LK CONSULT LIMITED

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:2,500	1892 - 1893	2
Lancashire And Furness	1:2,500	1912	3
Lancashire And Furness	1:2,500	1932	4
Ordnance Survey Plan	1:2,500	1968	5
Additional SIMs	1:2,500	1982	6
Large-Scale National Grid Data	1:2,500	1994	7
Large-Scale National Grid Data	1:2,500	1996	8

Historical Map - Segment A11



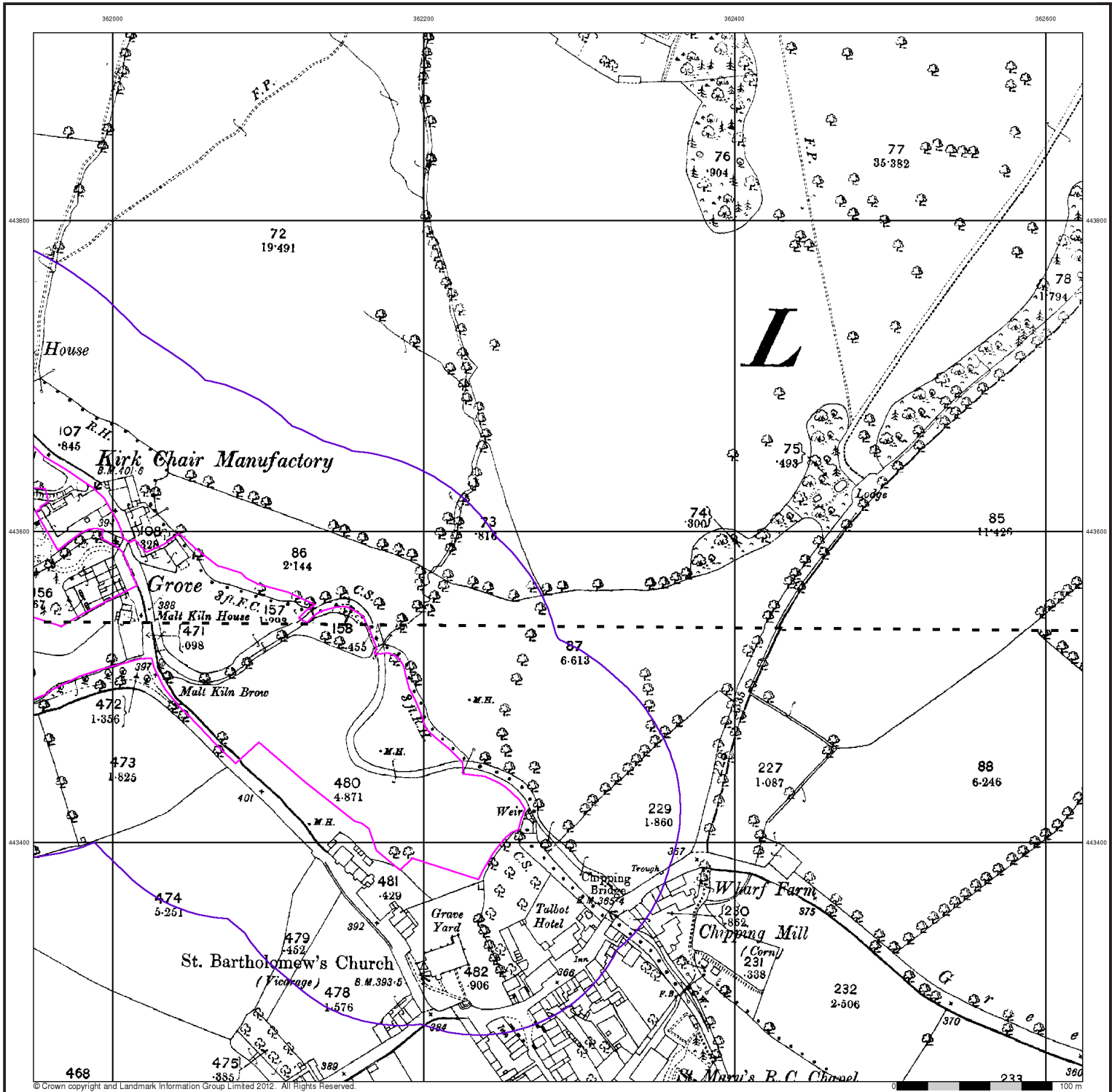
Order Details

Order Number: 45491088_1_1
Customer Ref: LKC 13 1086
National Grid Reference: 361950, 443590
Slice: A
Site Area (Ha): 4.4
Search Buffer (m): 100

Site Details

Land at Malt Kiln Lane, Chipping, Preston, PR3 2GP

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



LK CONSULT LIMITED

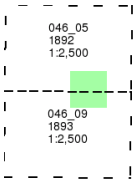
Lancashire And Furness

Published 1892 - 1893

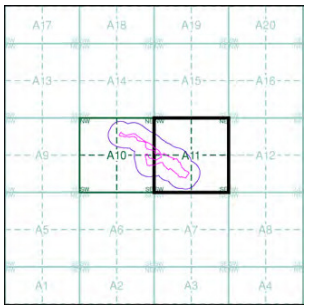
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

Order Number:	45491088_1_1
Customer Ref:	LKC 13 1086
National Grid Reference:	361950, 443590
Slice:	A
Site Area (Ha):	4.4
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Site Details

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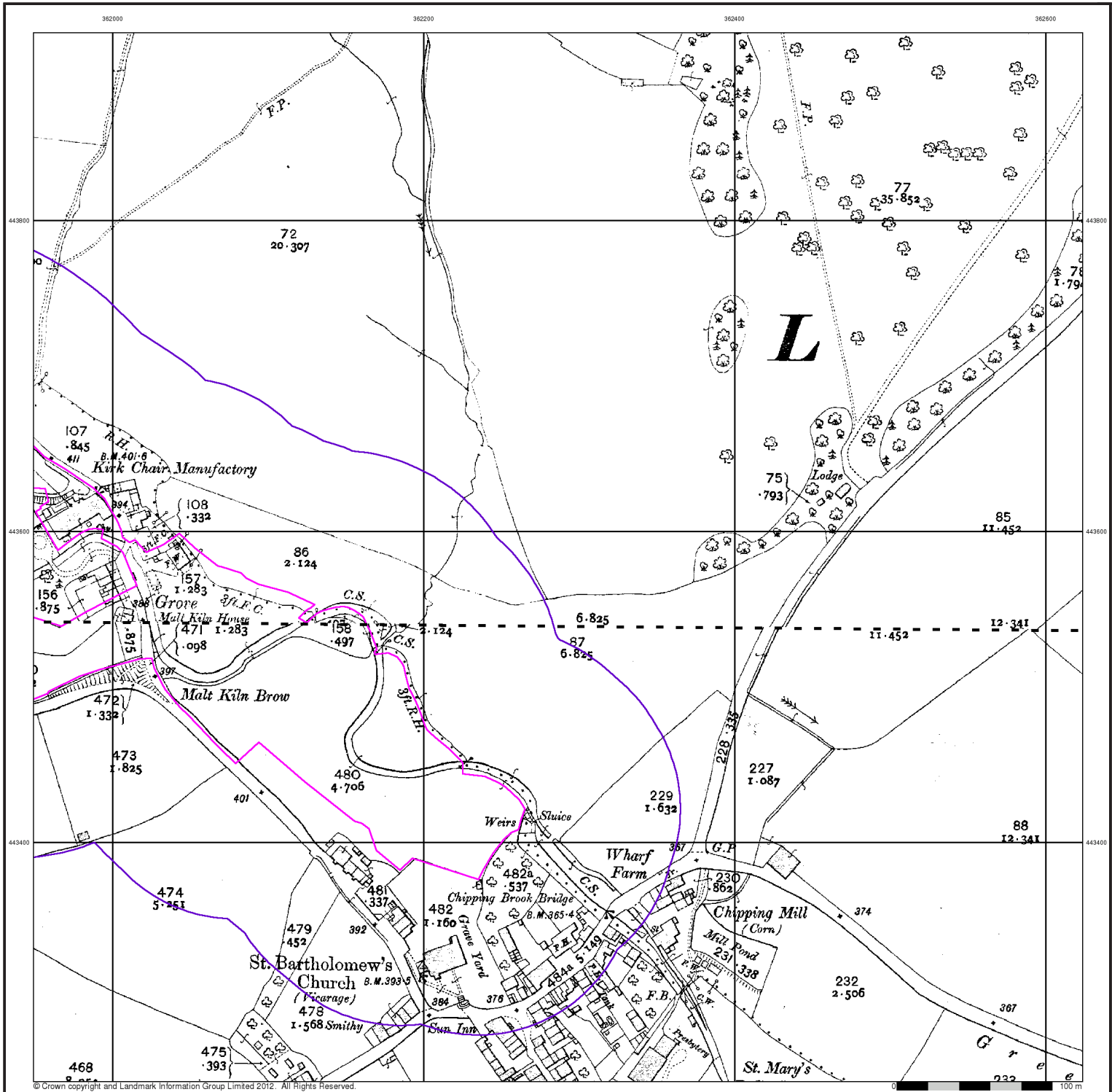

LK CONSULT LIMITED

Lancashire And Furness

Published 1912

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.

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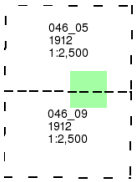
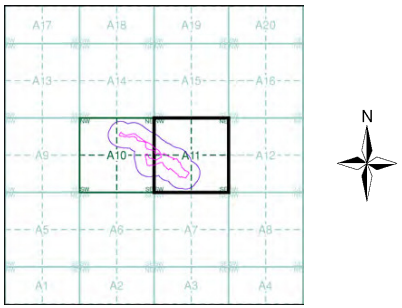


Historical Map - Segment A11



Order Details

Order Number:	45491088_1_1
Customer Ref:	LKC 13 1086
National Grid Reference:	361950, 443590
Slice:	A
Site Area (Ha):	4.4
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Site Details

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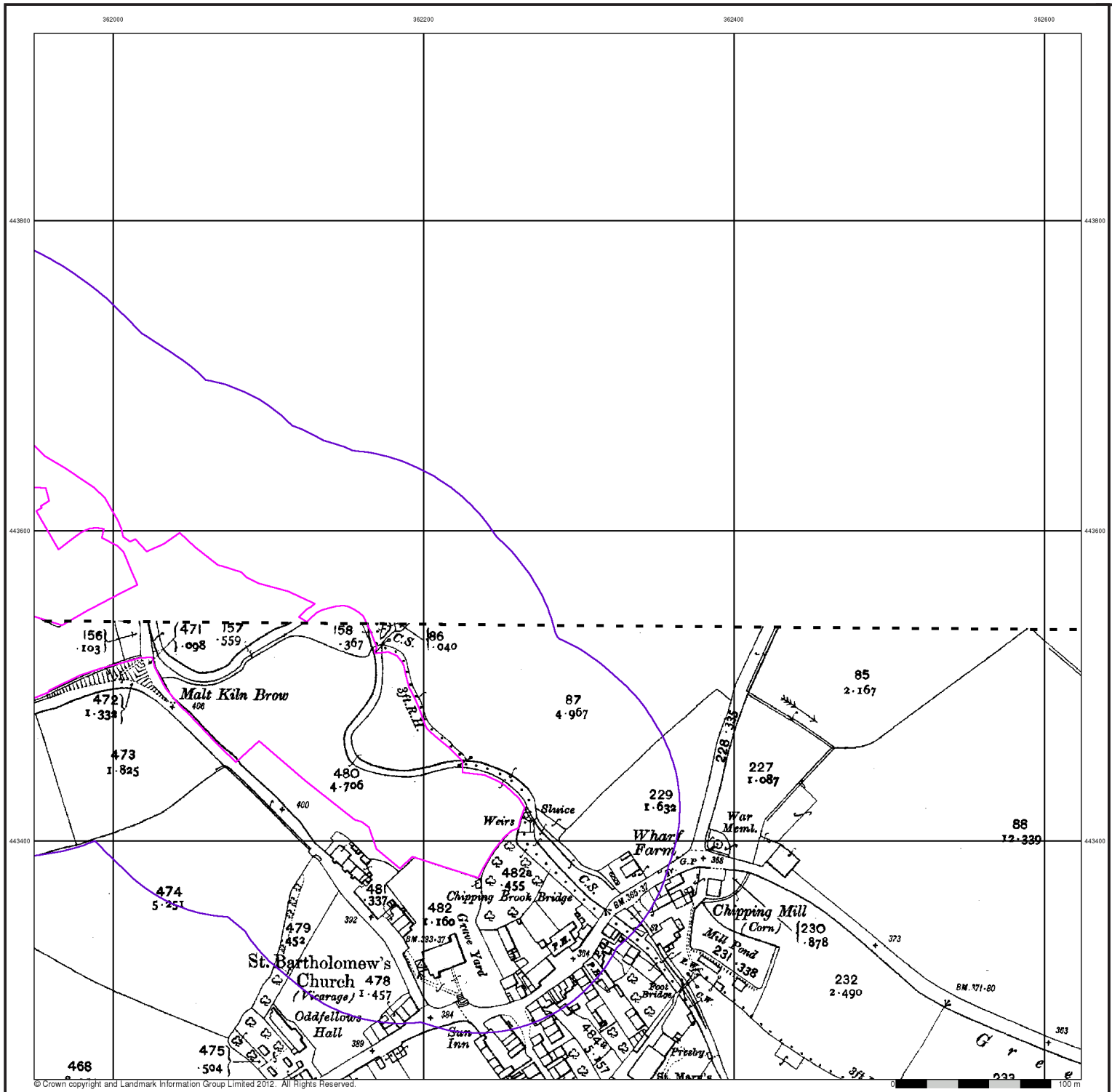


LK CONSULT LIMITED

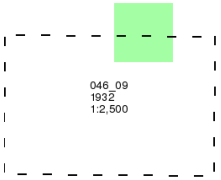
Lancashire And Furness

Published 1932

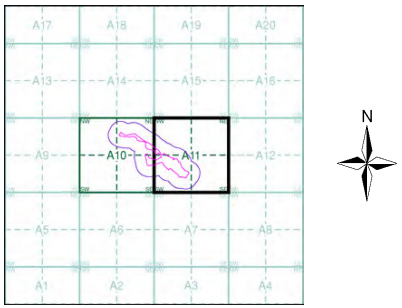
Source map scale - 1:2,500

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 A11



Order Details

Order Number:	45491088_1_1
Customer Ref:	LKC 13 1086
National Grid Reference:	361950, 443590
Slice:	A
Site Area (Ha):	4.4
Search Buffer (m):	100

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Land at Malt Kiln Lane, Chipping, Preston, PR3 2GP

Landmark Information Group
Tel: 0844 844 9952
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Web: www.envirocheck.co.uk

LK CONSULT LIMITED

Ordnance Survey Plan

Published 1968

Source map scale - 1:2,500

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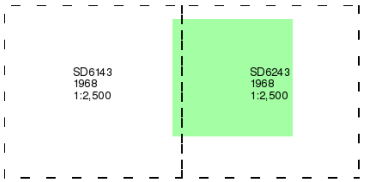
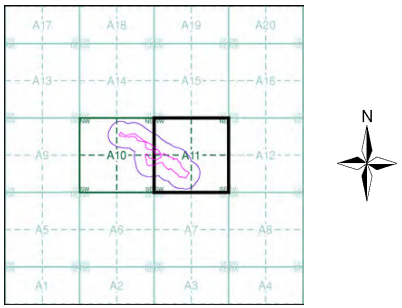


Historical Map - Segment A11



Order Details

Order Number:	45491088_1_1
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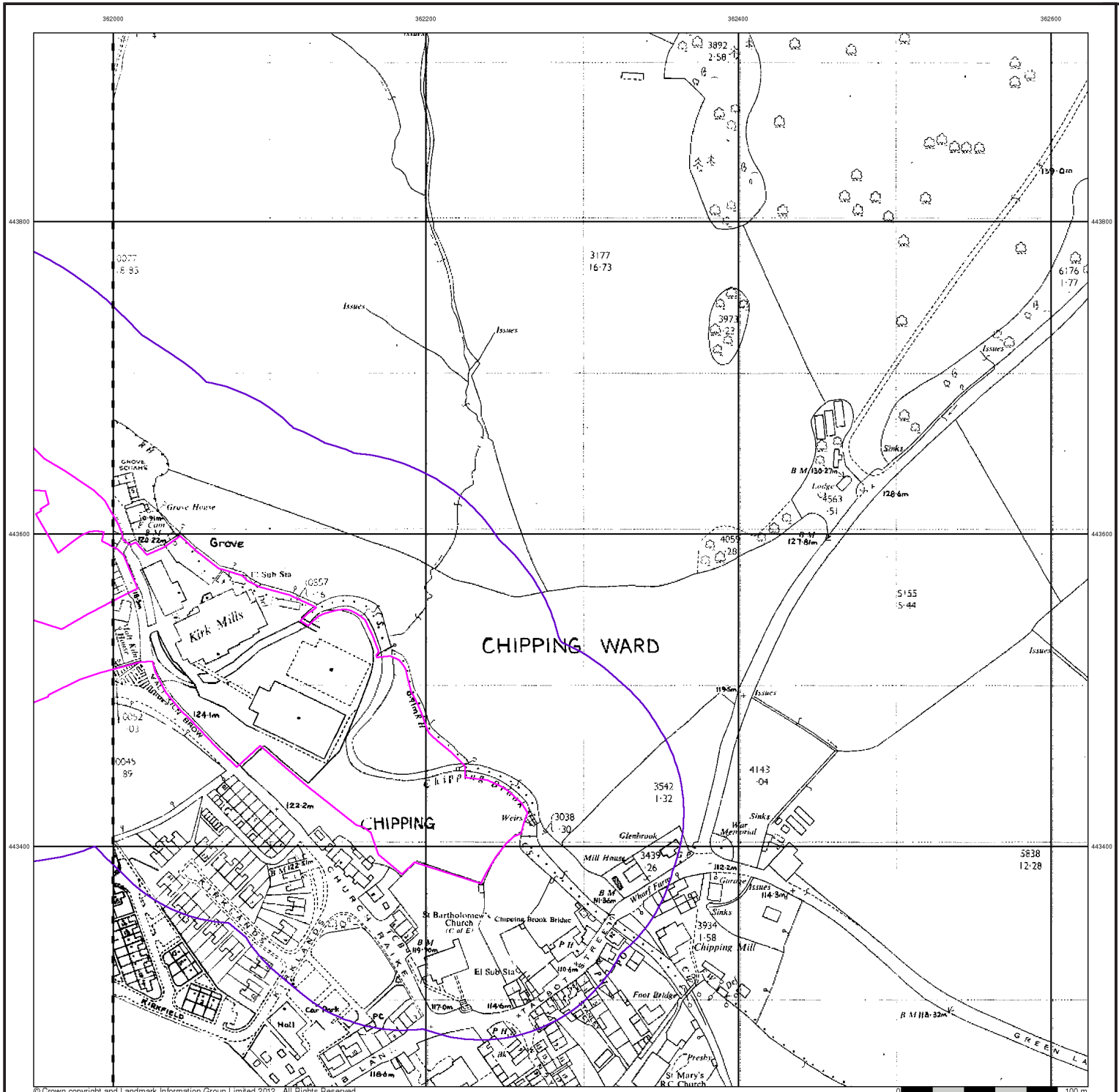


LK CONSULT LIMITED

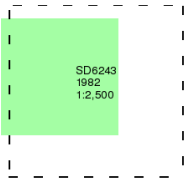
Additional SIMs

Published 1982

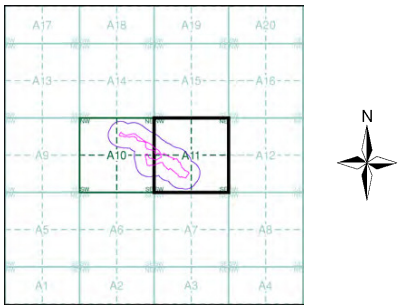
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

Order Number:	45491088_1_1
Customer Ref:	LKC 13 1086
National Grid Reference:	361950, 443590
Slice:	A
Site Area (Ha):	4.4
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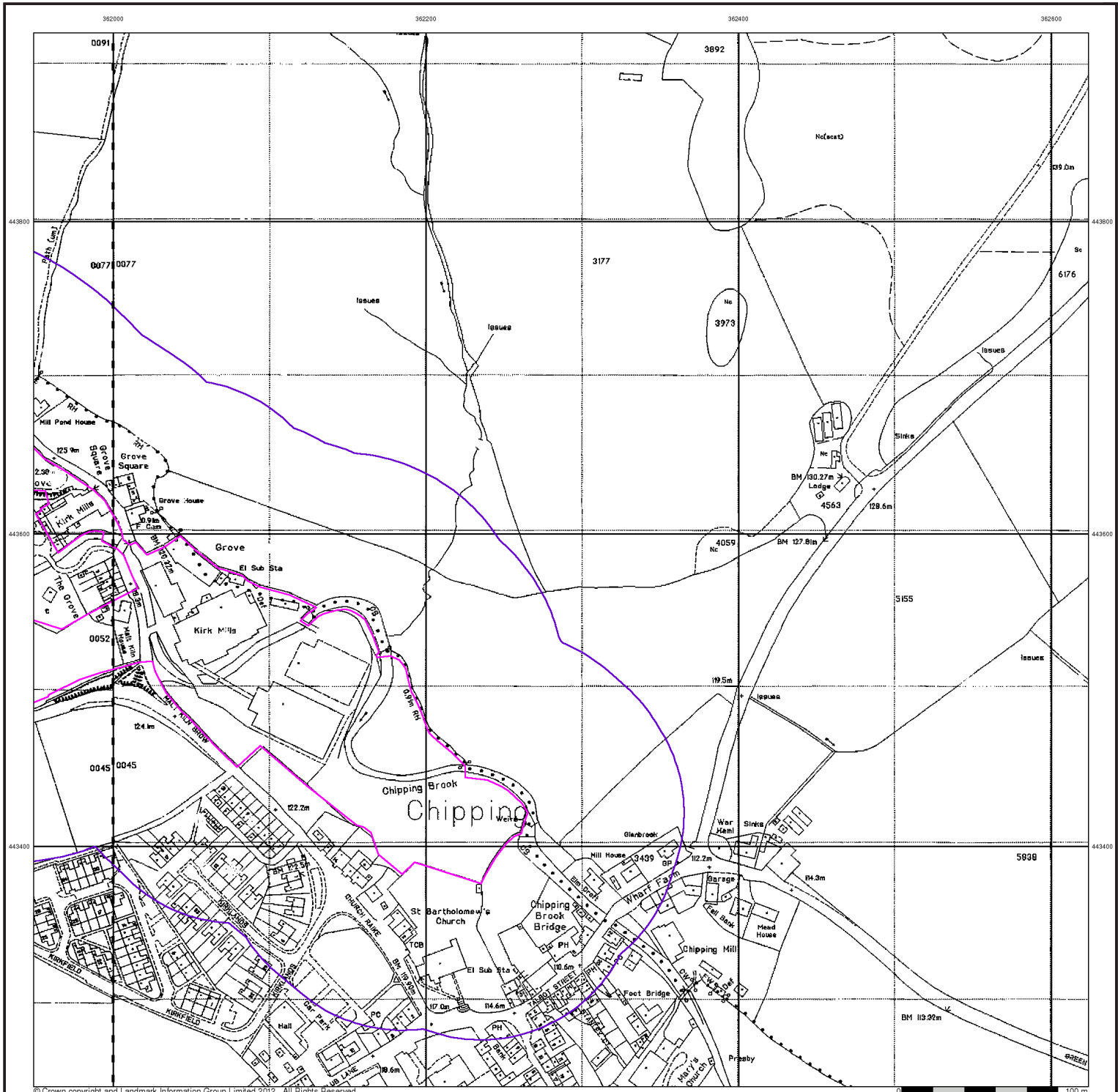


LK CONSULT LIMITED

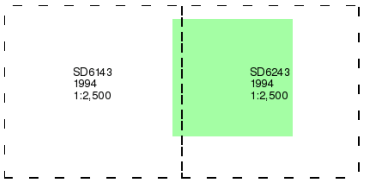
Large-Scale National Grid Data

Published 1994

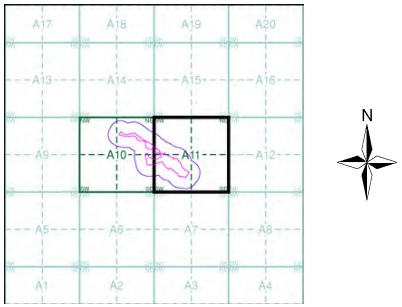
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

Order Number:	45491088_1_1
Customer Ref:	LKC 13 1086
National Grid Reference:	361950, 443590
Slice:	A
Site Area (Ha):	4.4
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Site Details

Land at Malt Kiln Lane, Chipping, Preston, PR3 2GP

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Tel: 0844 844 9952
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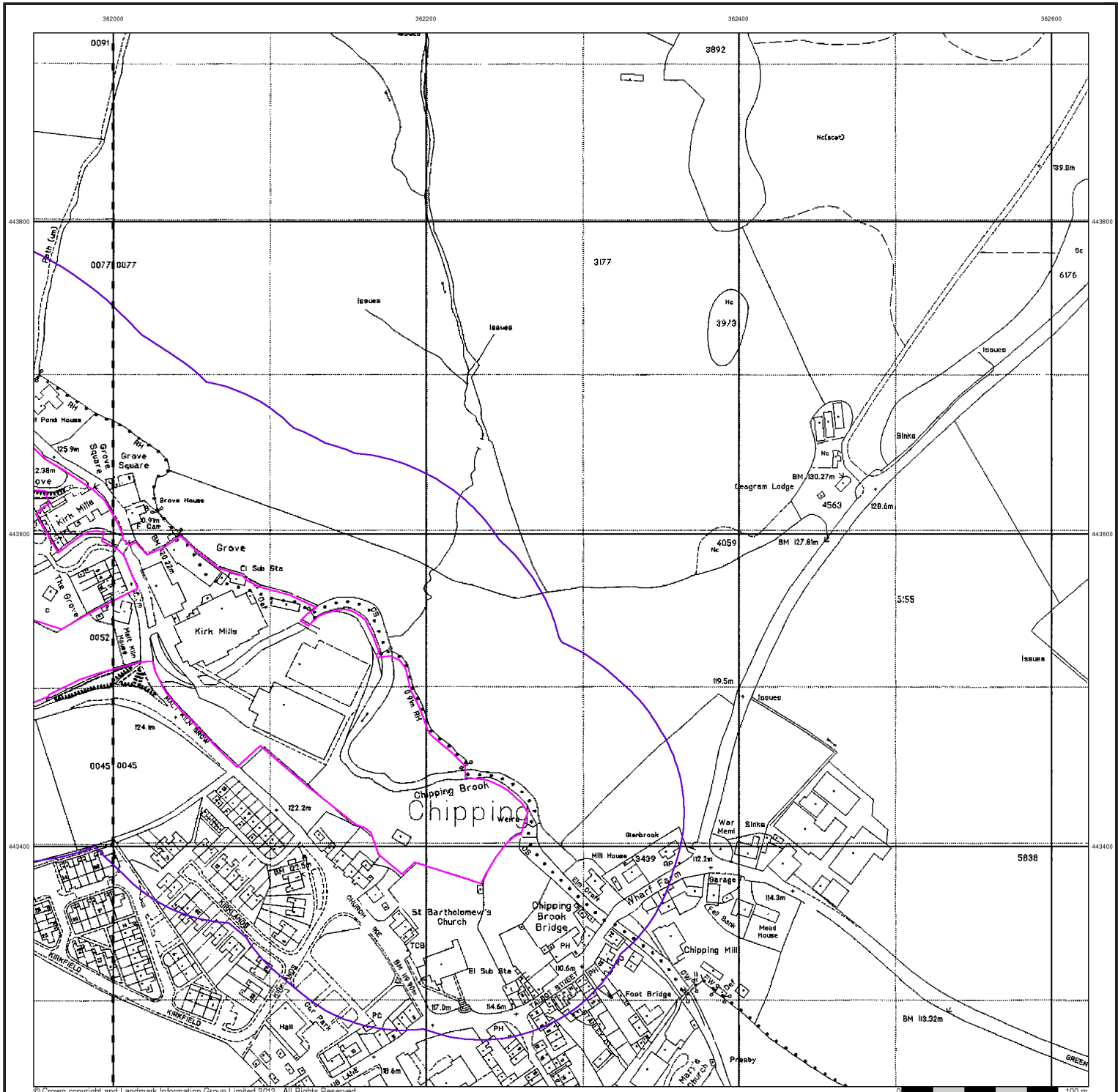


LK CONSULT LIMITED

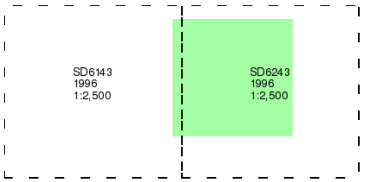
Large-Scale National Grid Data

Published 1996

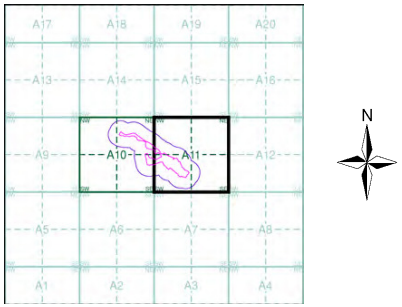
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

Order Number:	45491088_1_1
Customer Ref:	LKC 13 1086
National Grid Reference:	361950, 443590
Slice:	A
Site Area (Ha):	4.4
Search Buffer (m):	100

Site Details

Land at Malt Kiln Lane, Chipping, Preston, PR3 2GP

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

Historical Mapping Legends

Ordnance Survey County Series 1:10,560

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

Ordnance Survey Plan 1:10,000

Chalk Pit, Clay Pit or Quarry
Gravel Pit
Sand Pit
Disused Pit or Quarry
Refuse or Slag Heap
Lake, Loch or Pond
Dunes
Boulders
Coniferous Trees
Non-Coniferous Trees
Orchard
Scrub
Coppice
Bracken
Heath
Rough Grassland
Marsh
Reeds
Saltings
Building
Direction of Flow of Water
Shingle
Sand
Glasshouse
Pylon
Electricity Transmission Line
Pole
Sloping Masonry
Cutting
Embankment
Standard Gauge Multiple Track
Standard Gauge Single Track
Road Under
Road Over
Level Crossing
Foot Bridge
Siding, Tramway or Mineral Line
Narrow Gauge
Geographical County
Administrative County, County Borough or County of City
Municipal Borough, Urban or Rural District, Burgh or District Council
Borough, Burgh or County Constituency
Shown only when not coincident with other boundaries
Civil Parish
Shown alternately when coincidence of boundaries occurs

BP, BS	Boundary Post or Stone	Pol Sta	Police Station
Ch	Church	PO	Post Office
CH	Club House	PC	Public Convenience
F E Sta	Fire Engine Station	PH	Public House
FB	Foot Bridge	SB	Signal Box
Fn	Fountain	Spr	Spring
GP	Guide Post	TCB	Telephone Call Box
MP	Mile Post	TCP	Telephone Call Post
MS	Mile Stone	W	Well

1:10,000 Raster Mapping

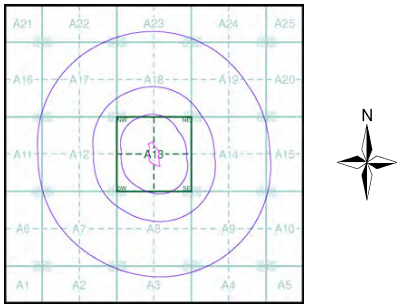
Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or community boundary
District, Unitary, Metropolitan, London Borough boundary
Constituency boundary
Area of wooded vegetation
Non-coniferous trees
Non-coniferous trees (scattered)
Coniferous trees
Coniferous trees (scattered)
Positioned tree
Orchard
Coppice or Osiers
Rough Grassland
Heath
Scrub
Marsh, Salt Marsh or Reeds
Water feature
Flow arrows
MHW(S) Mean high water (springs)
MLW(S) Mean low water (springs)
Telephone line (where shown)
Electricity transmission line (with poles)
BM 123.45 m Bench mark (where shown)
Triangulation station
Point feature (e.g. Guide Post or Mile Stone)
Pylon, flare stack or lighting tower
Site of (antiquity)
Glasshouse
General Building
Important Building

LK CONSULT LIMITED

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1847	2
Yorkshire	1:10,560	1850	3
Lancashire And Furness	1:10,560	1895	4
Yorkshire	1:10,560	1896	5
Lancashire And Furness	1:10,560	1913 - 1914	6
Lancashire And Furness	1:10,560	1933	7
Ordnance Survey Plan	1:10,000	1956	8
Ordnance Survey Plan	1:10,000	1971	9
Ordnance Survey Plan	1:10,000	1987	10
10K Raster Mapping	1:10,000	2006	11
10K Raster Mapping	1:10,000	2012	12

Historical Map - Slice A



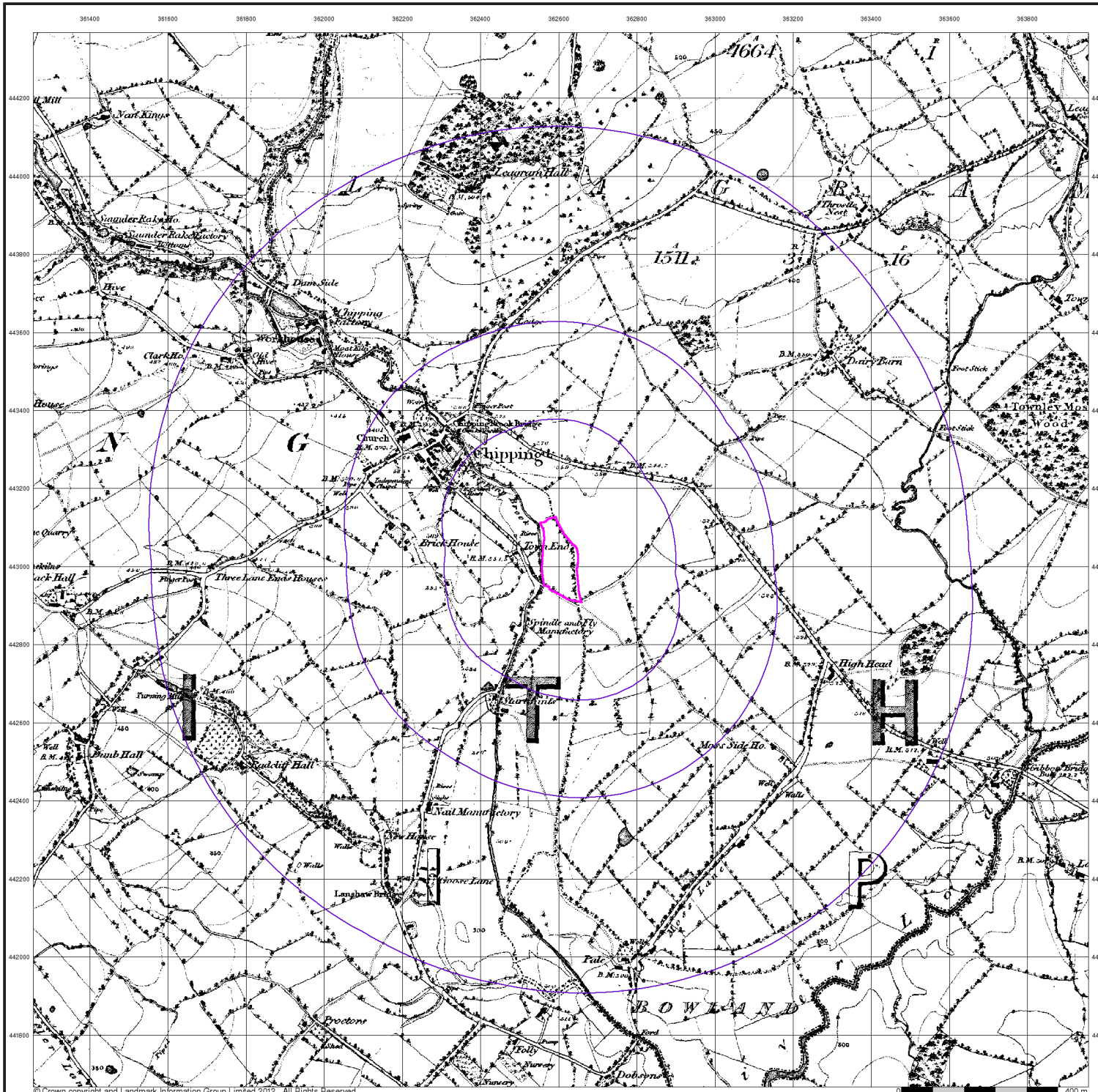
Order Details

Order Number: 45486645_1_1
Customer Ref: LKC 13 1086a
National Grid Reference: 362610, 443010
Slice: A
Site Area (Ha): 1.49
Search Buffer (m): 1000

Site Details

Land off Longridge Road, Chipping, Preston, PR3 2QD

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



LK CONSULT LIMITED

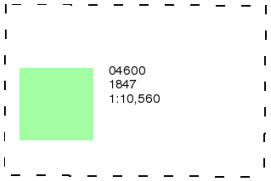
Lancashire And Furness

Published 1847

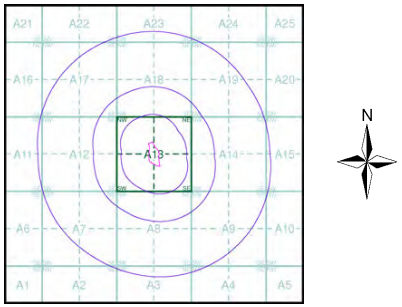
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

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Slice:	A
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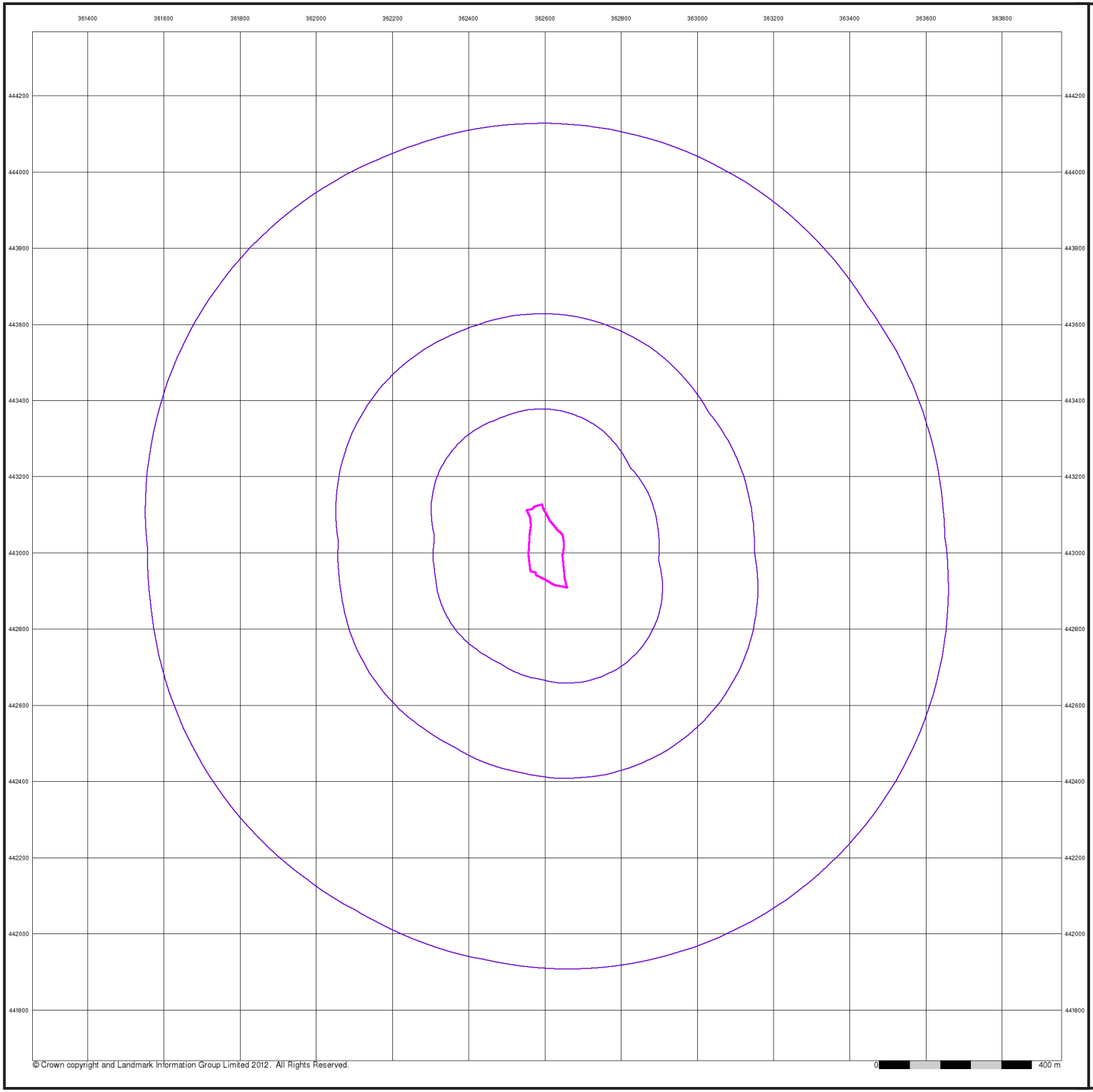

LK CONSULT LIMITED

Yorkshire

Published 1850

Source map scale - 1:10,560

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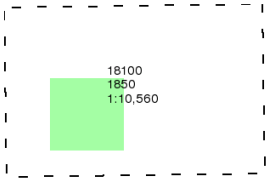
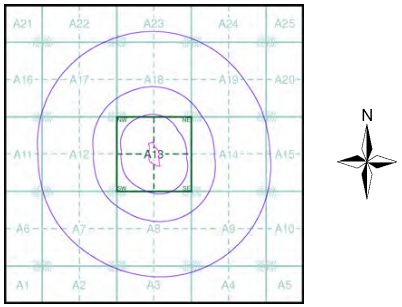


Historical Map - Slice A



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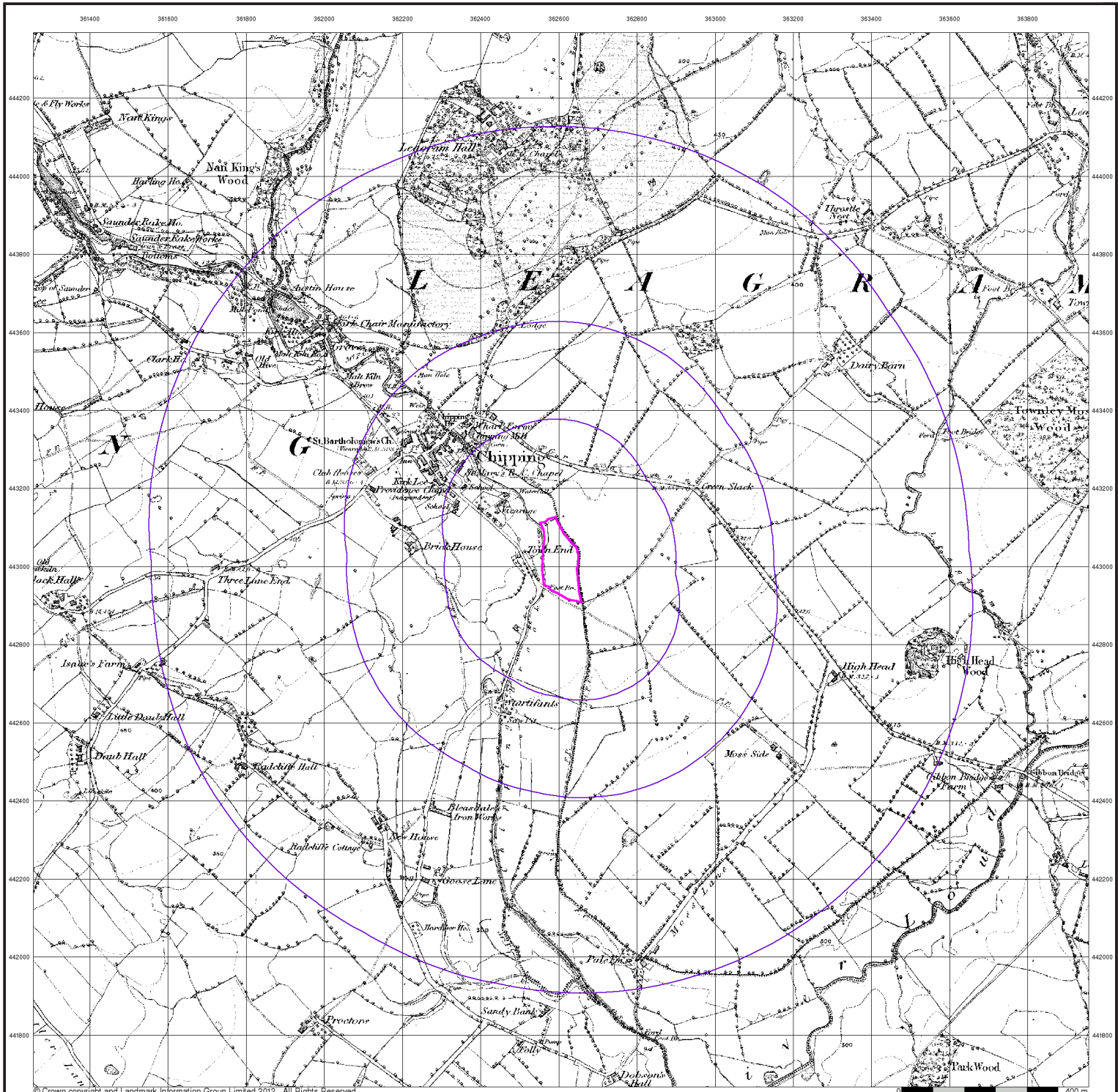

LK CONSULT LIMITED

Lancashire And Furness

Published 1895

Source map scale - 1:10,560

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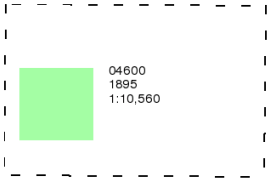
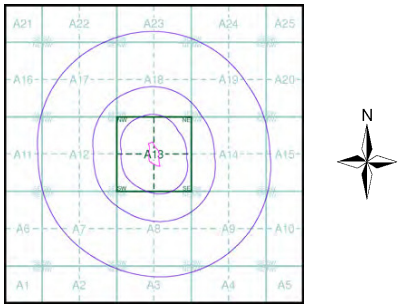
Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

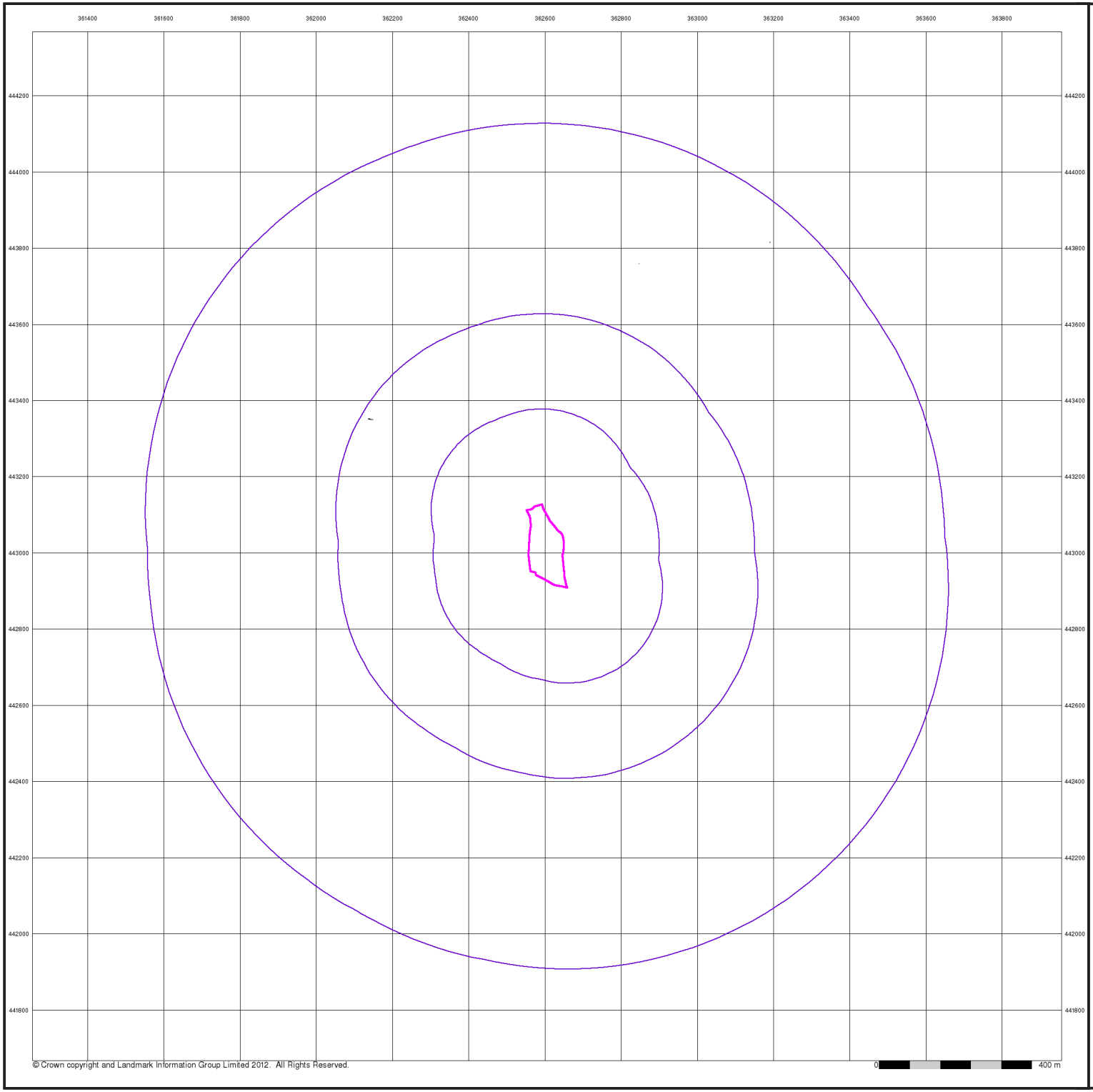
Order Number:	45486645_1_1
Customer Ref:	LKC 13 1086a
National Grid Reference:	362610, 443010
Slice:	A
Site Area (Ha):	1.49
Search Buffer (m):	1000

Site Details

Land off Longridge Road, Chipping, Preston, PR3 2QD

Landmark Information Group

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



LK CONSULT LIMITED

Yorkshire

Published 1896

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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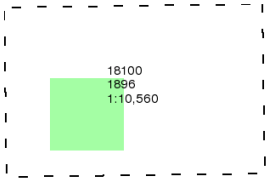
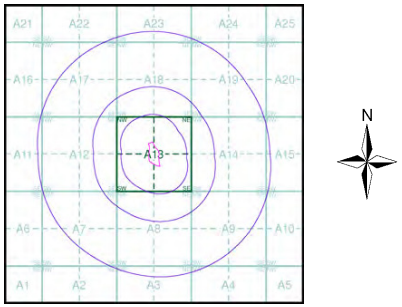


Historical Map - Slice A



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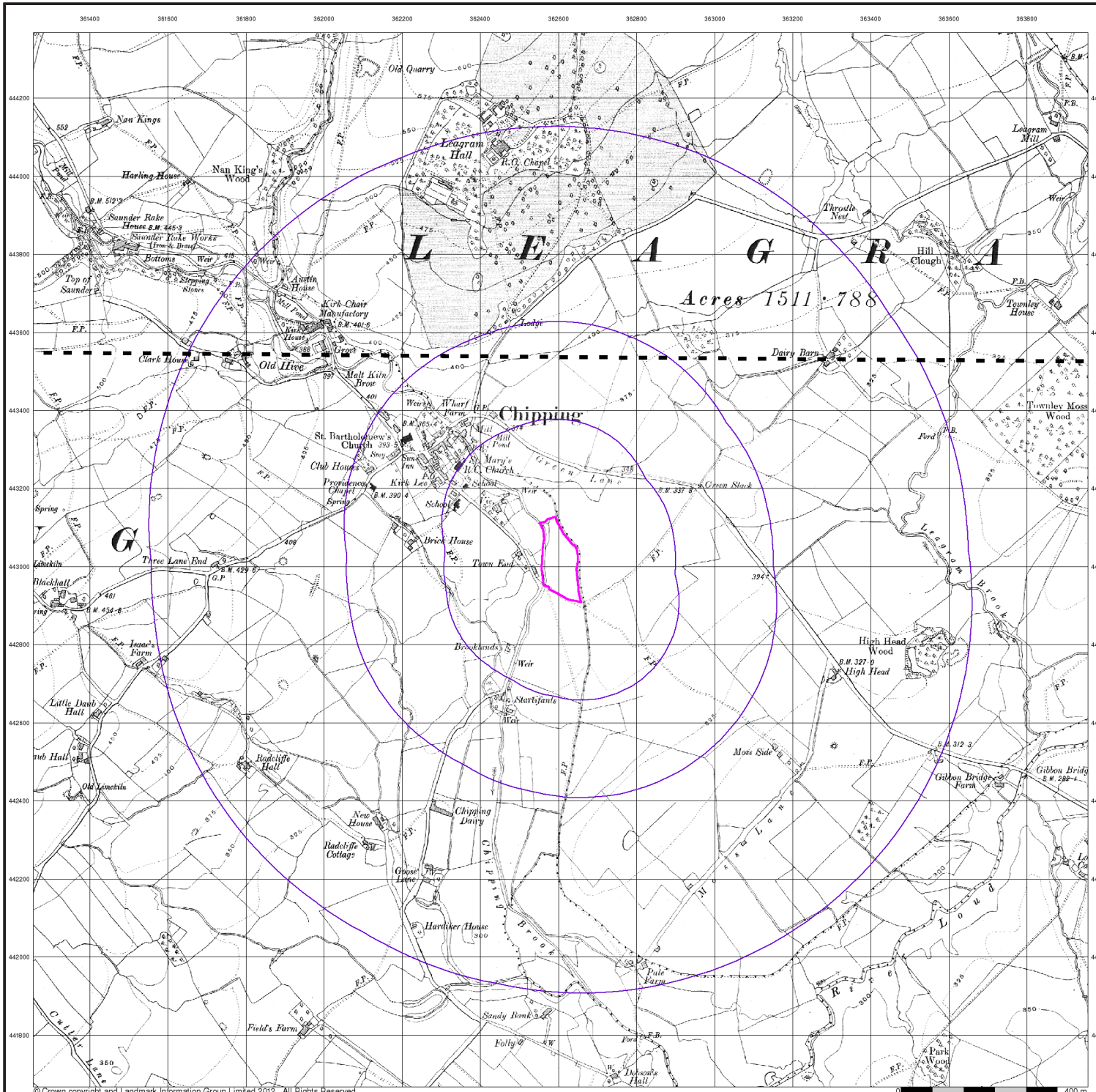

LK CONSULT LIMITED

Lancashire And Furness

Published 1913 - 1914

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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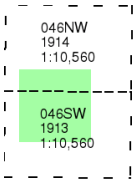
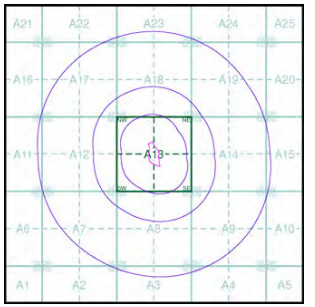


Historical Map - Slice A



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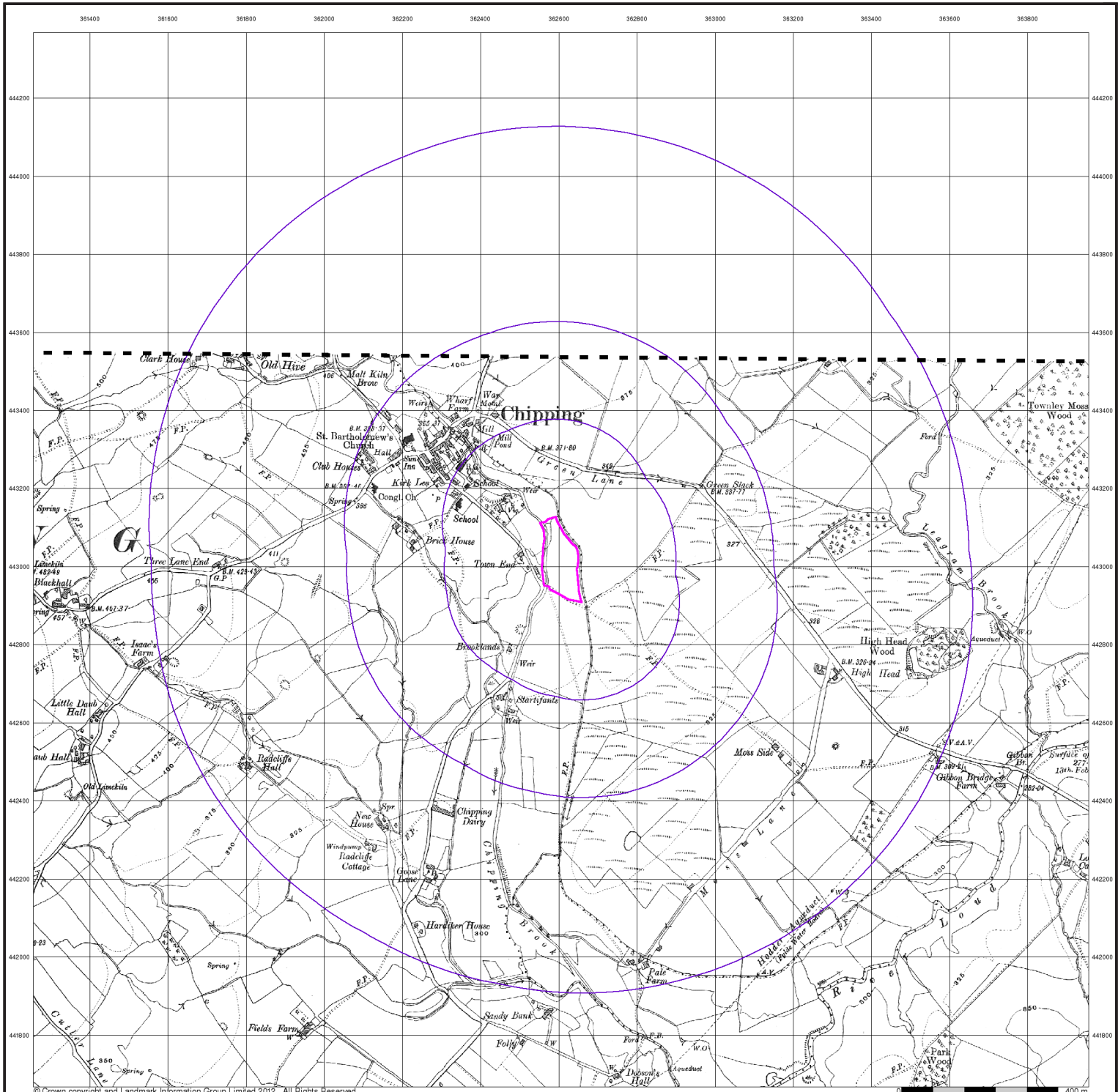

LK CONSULT LIMITED

Lancashire And Furness

Published 1933

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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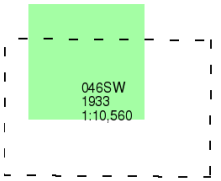
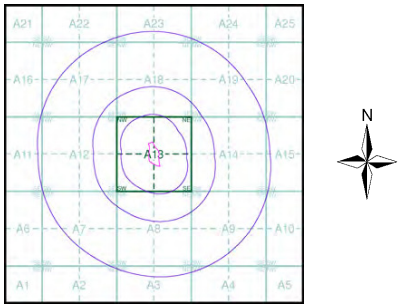


Historical Map - Slice A



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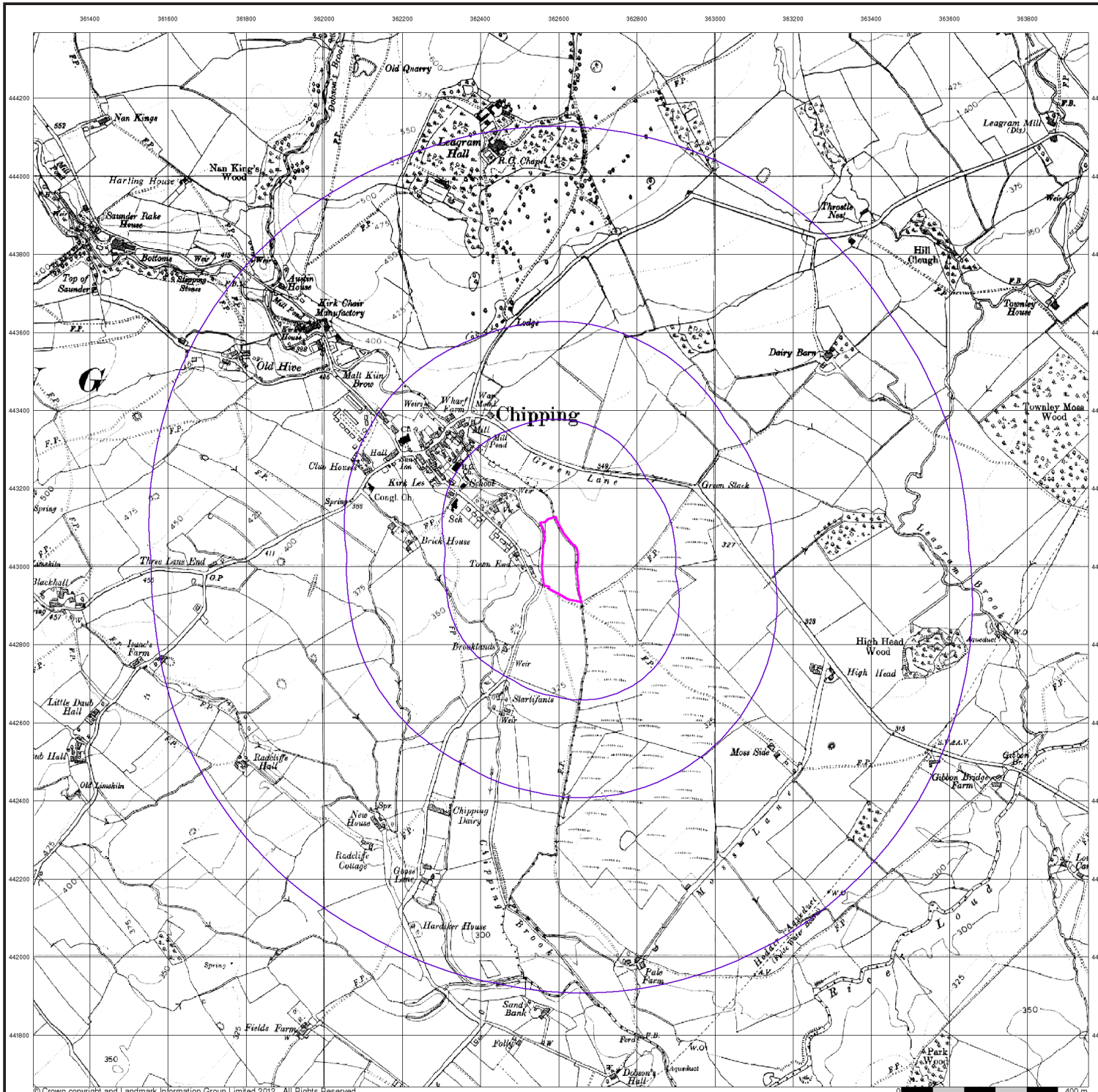

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Ordnance Survey Plan

Published 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.

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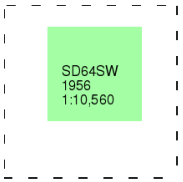
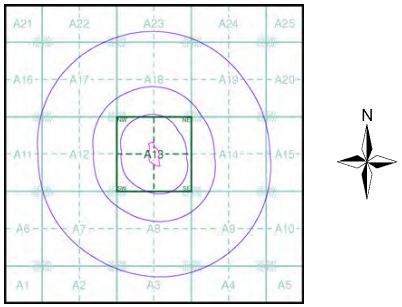


Historical Map - Slice A



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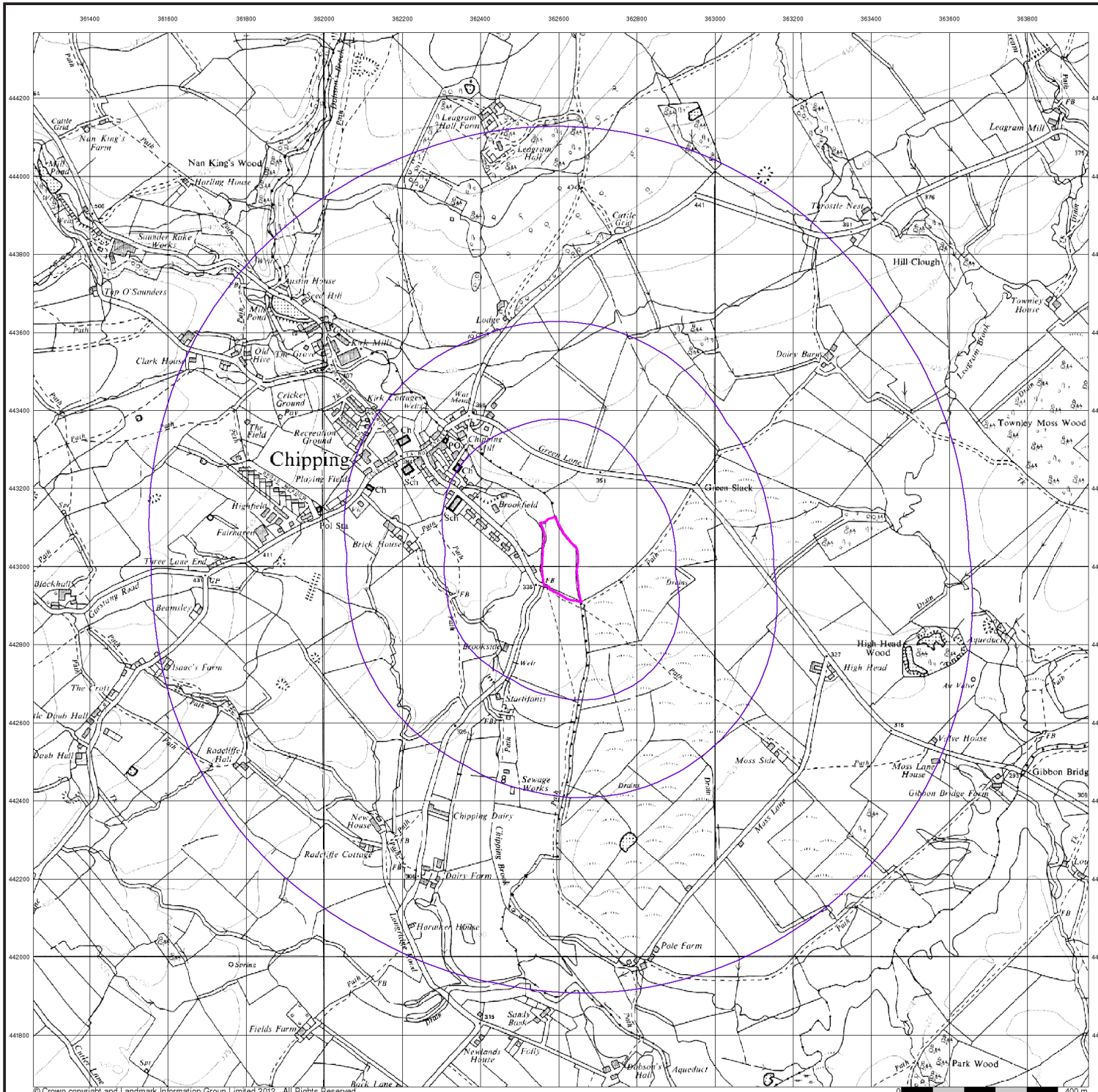


LK CONSULT LIMITED

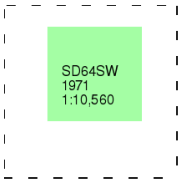
Ordnance Survey Plan

Published 1971

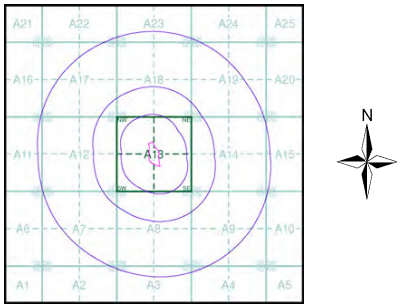
Source map scale - 1:10,000

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



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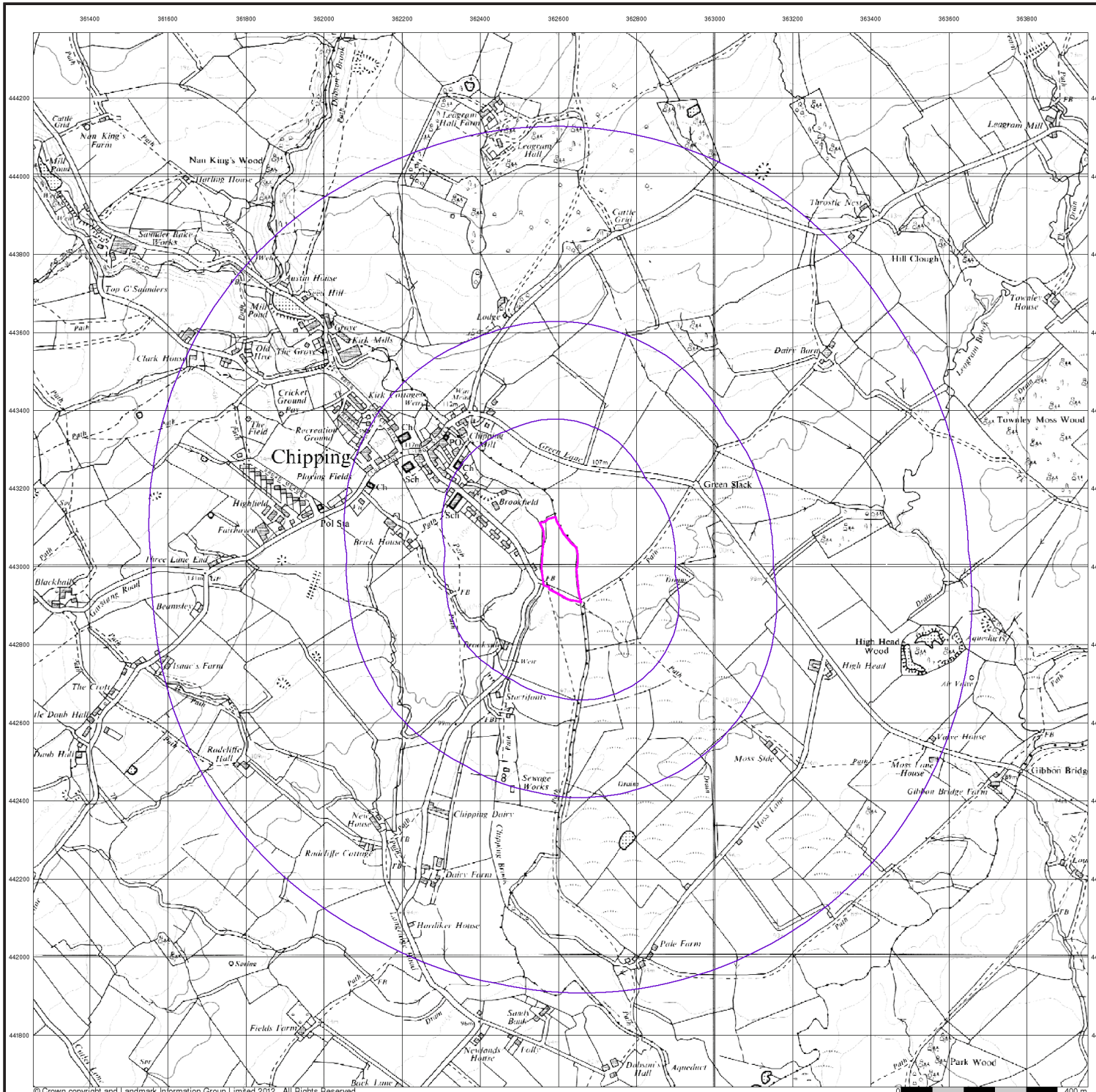

LK CONSULT LIMITED

Ordnance Survey Plan

Published 1987

Source map scale - 1:10,000

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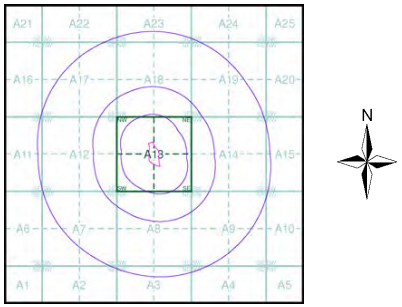
Map Name(s) and Date(s)

SD64SW
1987
1:10,000

Historical Map - Slice A



Order Details

Order Number:	45486645_1_1
Customer Ref:	LKC 13 1086a
National Grid Reference:	362610, 443010
Slice:	A
Site Area (Ha):	1.49
Search Buffer (m):	1000

Site Details

Land off Longridge Road, Chipping, Preston, PR3 2QD

Landmark Information Group
Tel: 0844 844 9952
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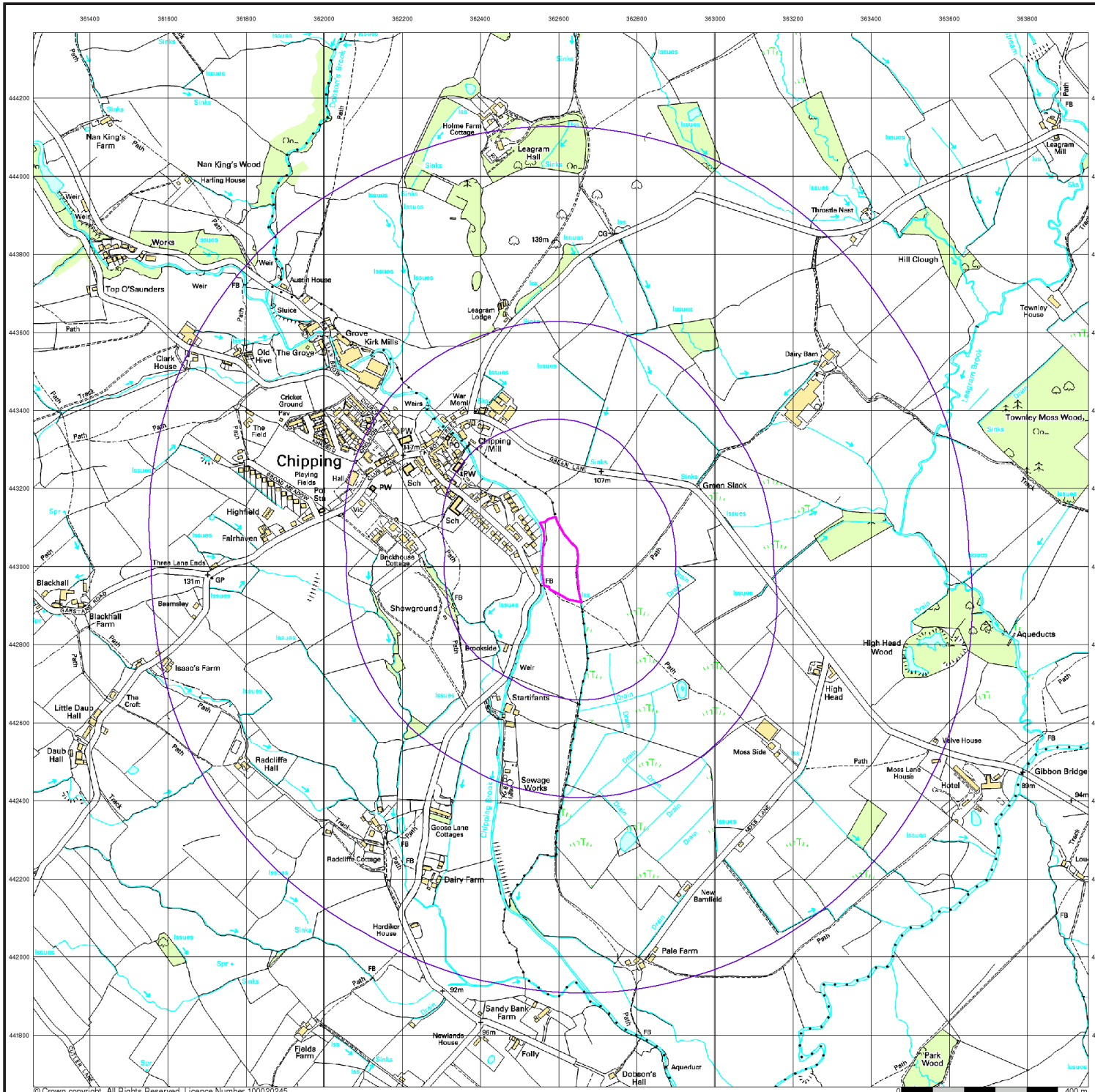
Web: www.envirocheck.co.uk



LK CONSULT LIMITED

10k Raster Mapping

Published 2006

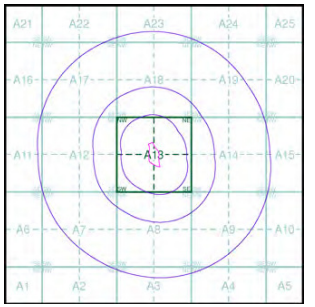
Source map scale - 1:10,000

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)

SD64SW
2006
1:10,000

Historical Map - Slice A



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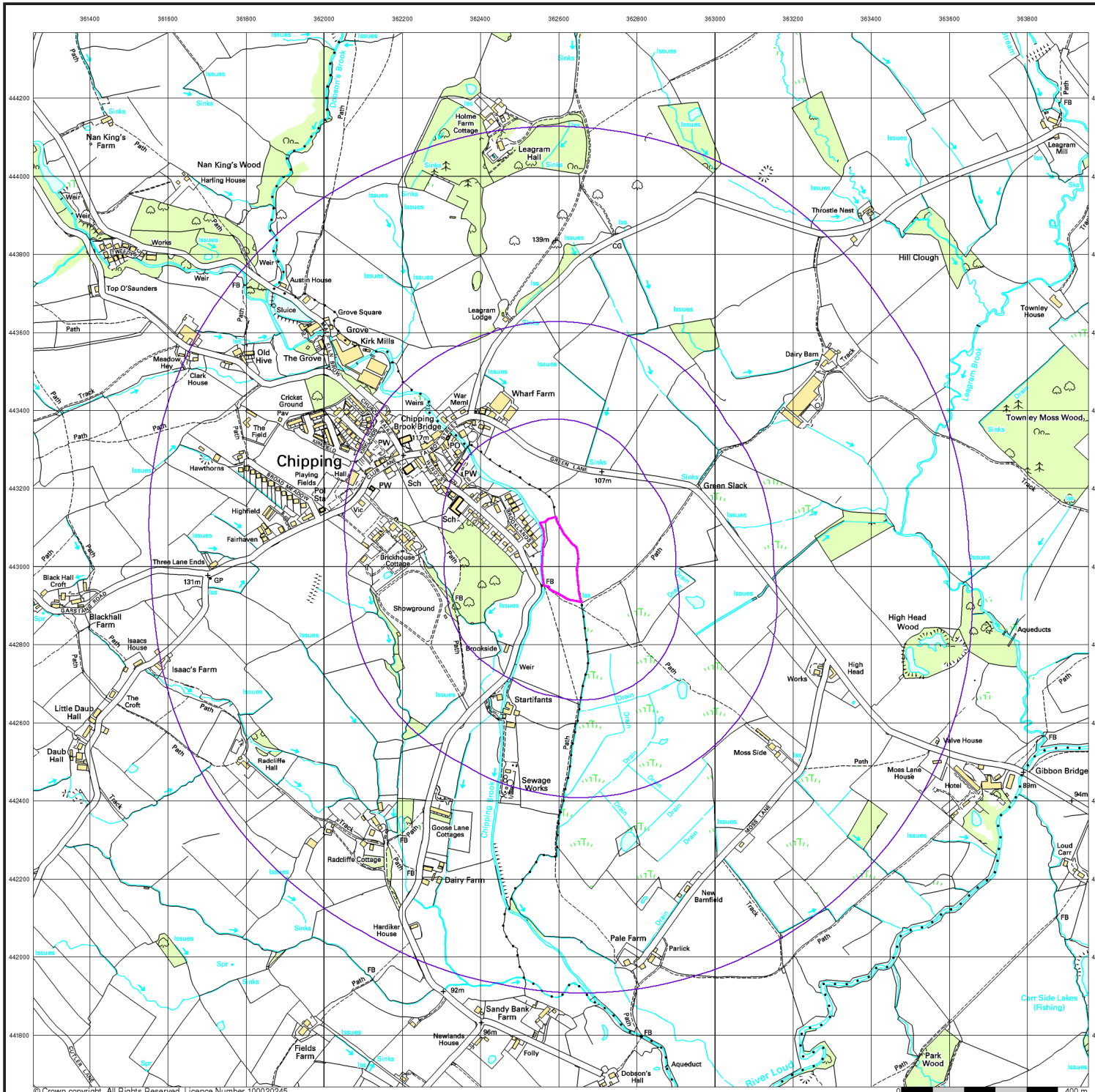

LK CONSULT LIMITED

10k Raster Mapping

Published 2012

Source map scale - 1:10,000

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

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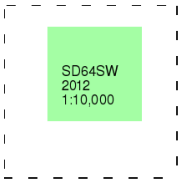
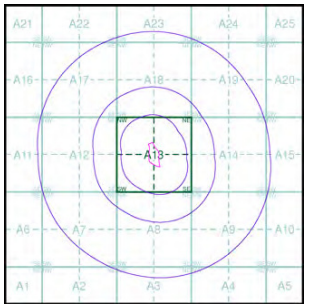


Historical Map - Slice A



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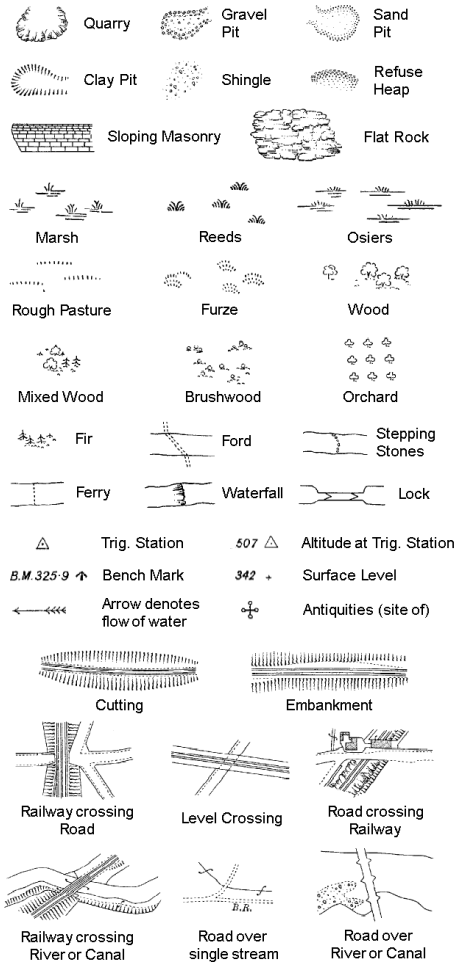
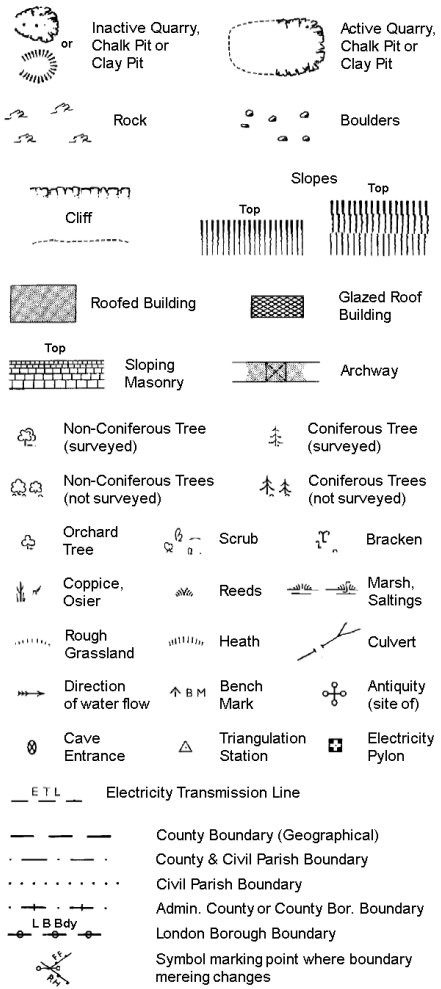
Historical Mapping Legends

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



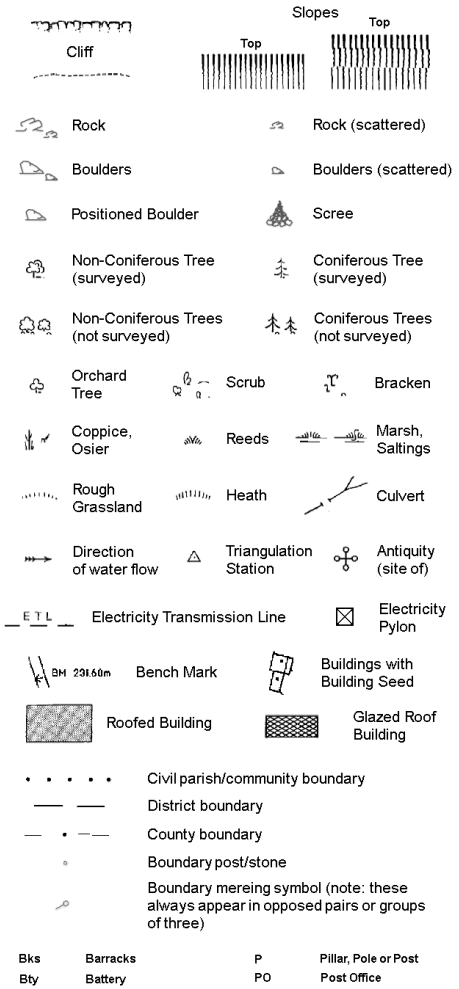
B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	St.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

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



BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

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



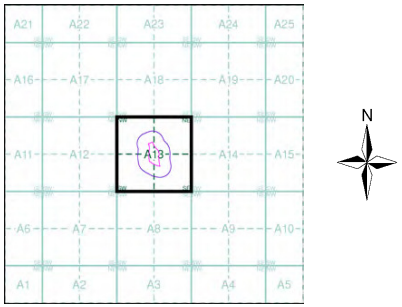
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governer	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

LK CONSULT LIMITED

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:2,500	1893	2
Lancashire And Furness	1:2,500	1912	3
Lancashire And Furness	1:2,500	1932	4
Ordnance Survey Plan	1:2,500	1968	5
Additional SIMs	1:2,500	1982	6
Large-Scale National Grid Data	1:2,500	1994	7
Large-Scale National Grid Data	1:2,500	1996	8

Historical Map - Segment A13



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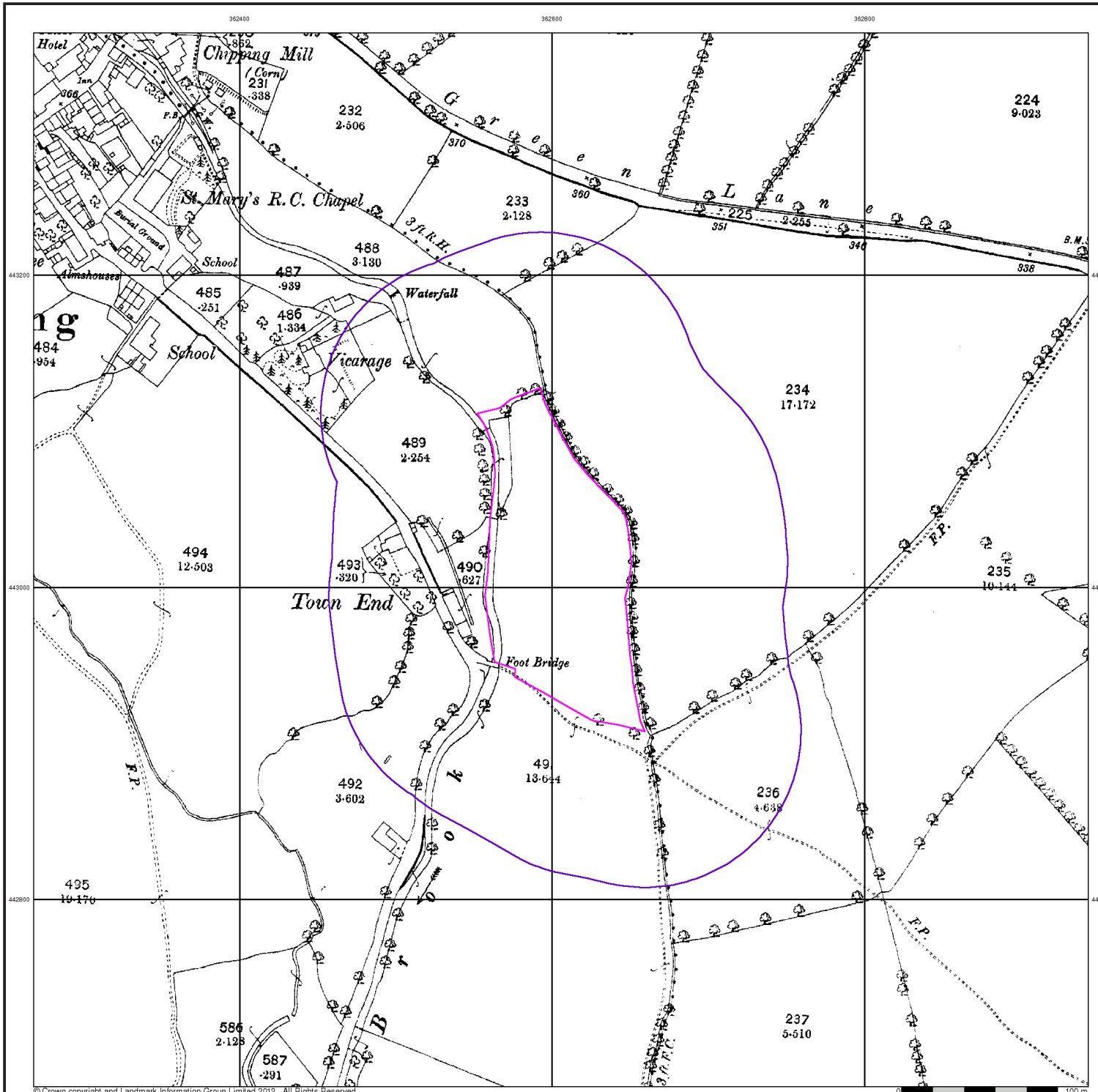


LK CONSULT LIMITED

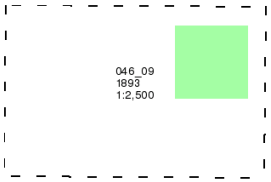
Lancashire And Furness

Published 1893

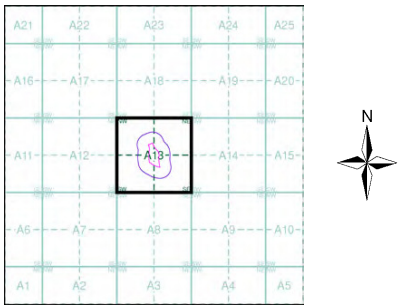
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



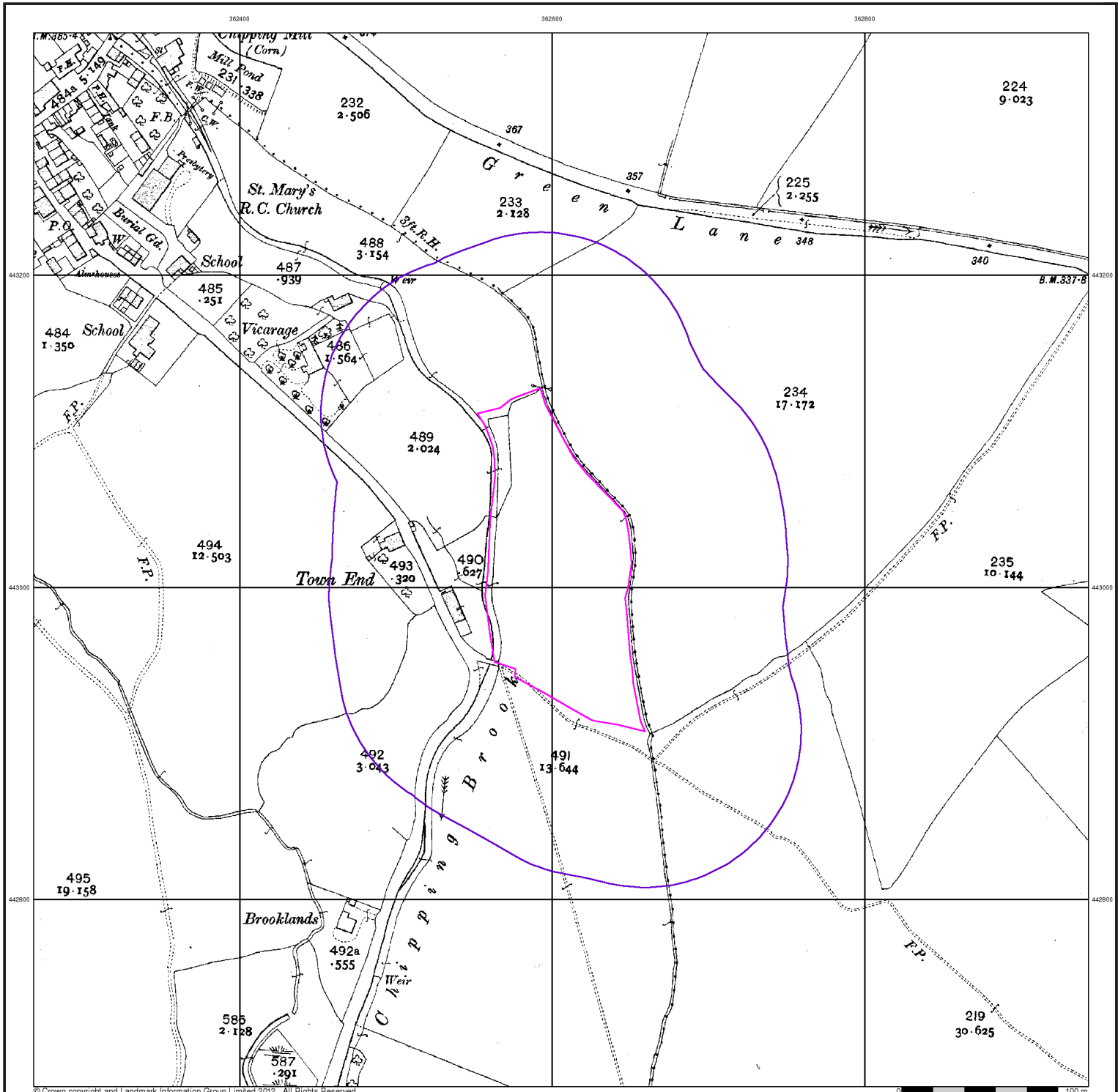
Order Details

Order Number:	45486645_1_1
Customer Ref:	LKC 13 1086a
National Grid Reference:	362610, 443010
Slice:	A
Site Area (Ha):	1.49
Search Buffer (m):	100

Site Details

Land off Longridge Road, Chipping, Preston, PR3 2QD

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



LK CONSULT LIMITED

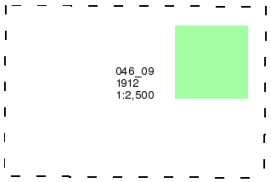
Lancashire And Furness

Published 1912

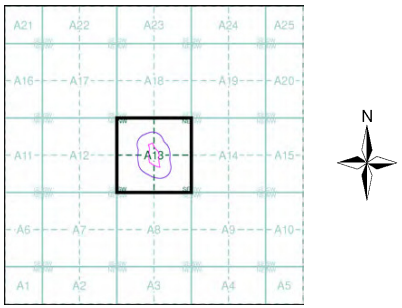
Source map scale - 1:2,500

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



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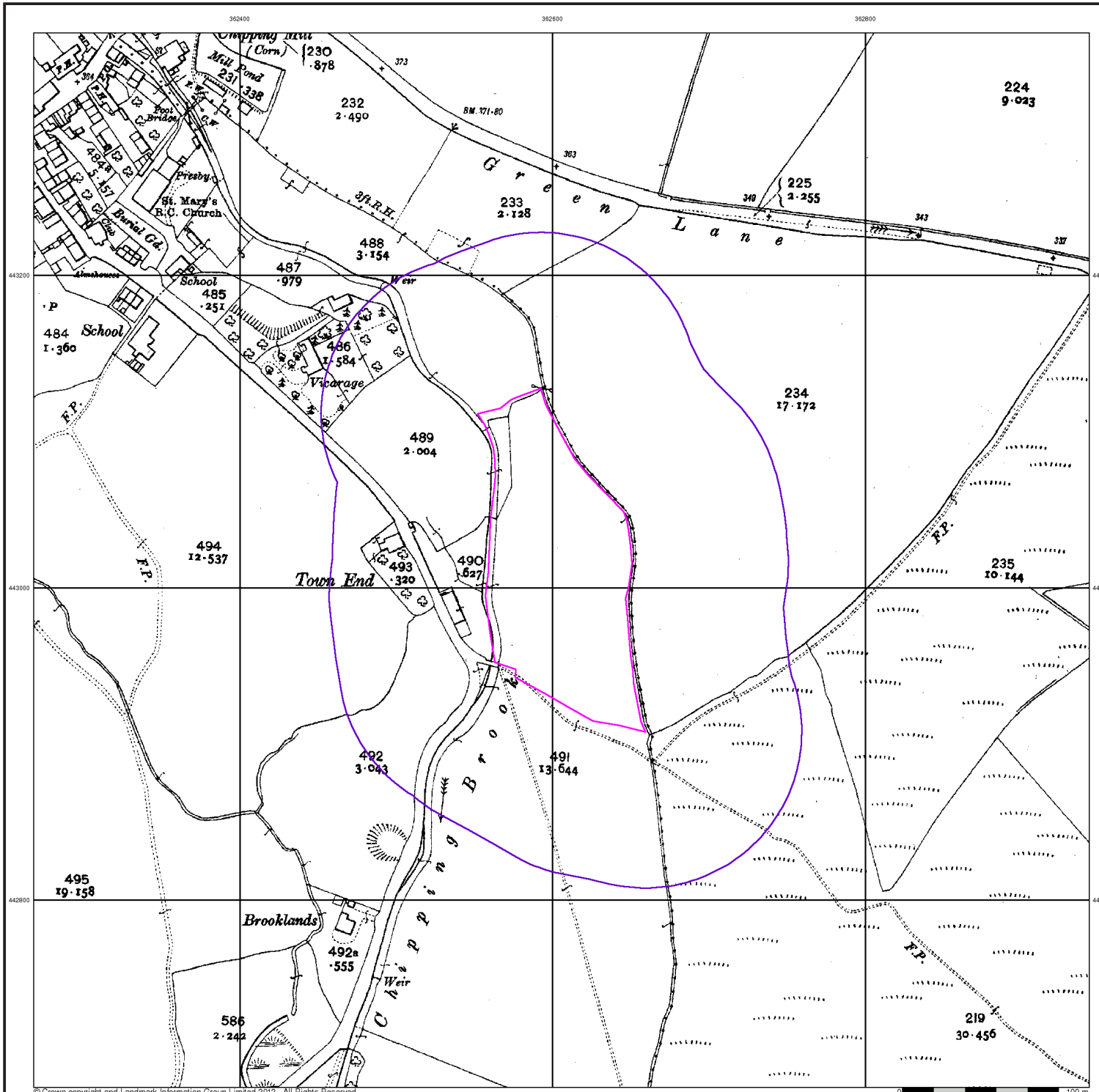


LK CONSULT LIMITED

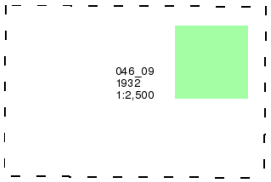
Lancashire And Furness

Published 1932

Source map scale - 1:2,500

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

Map Name(s) and Date(s)



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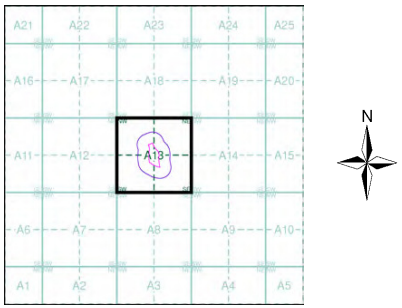

Order Details

Order Number:	45486645_1_1
Customer Ref:	LKC 13 1086a
National Grid Reference:	362610, 443010
Slice:	A
Site Area (Ha):	1.49
Search Buffer (m):	100

Site Details

Land off Longridge Road, Chipping, Preston, PR3 2QD

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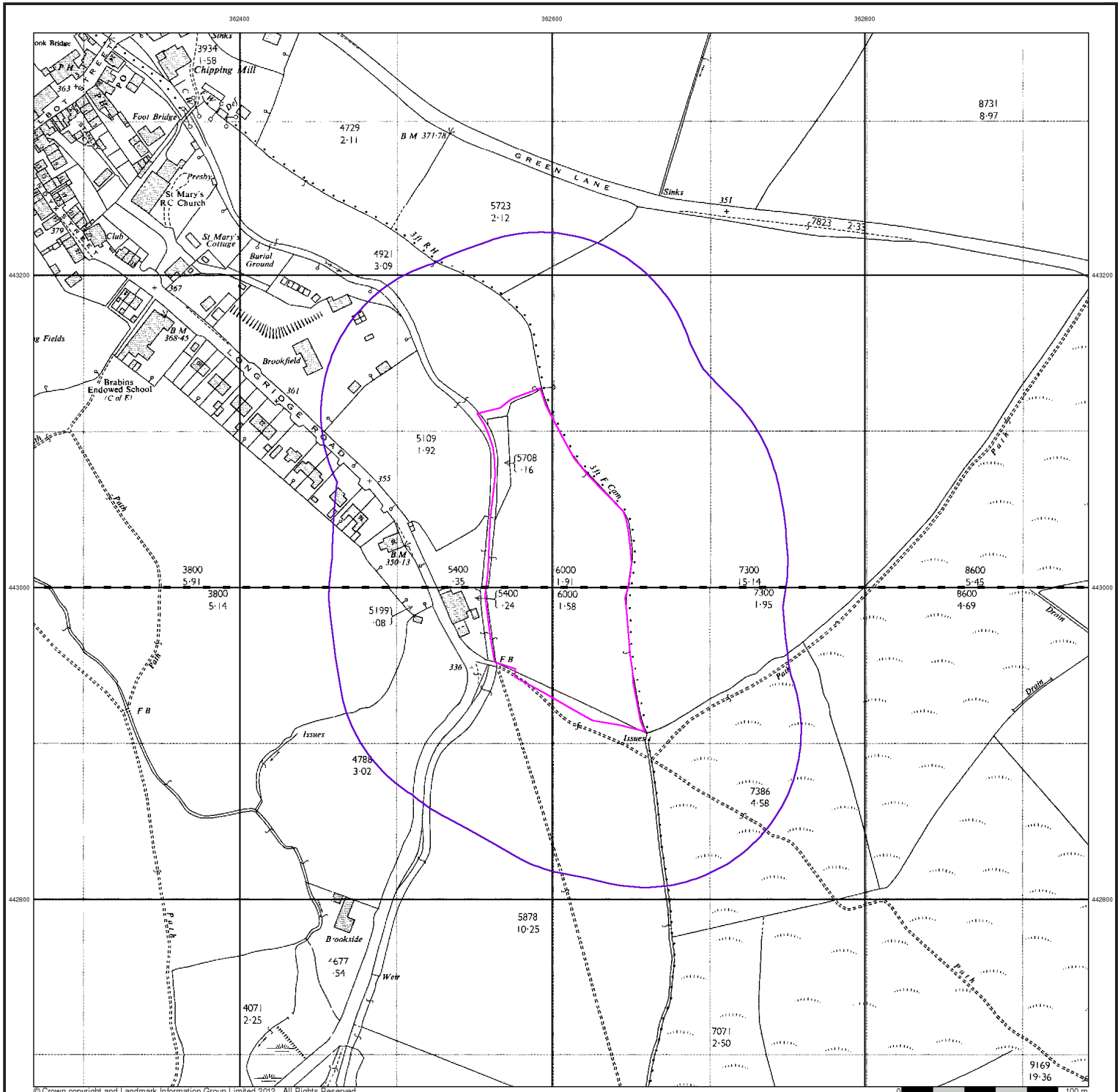

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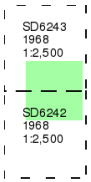
Ordnance Survey Plan

Published 1968

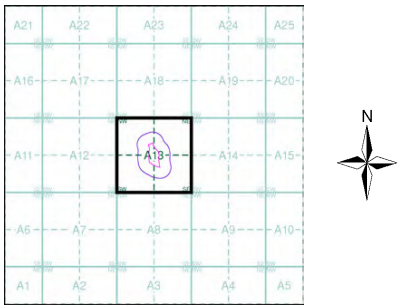
Source map scale - 1:2,500

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:	45486645_1_1
Customer Ref:	LKC 13 1086a
National Grid Reference:	362610, 443010
Slice:	A
Site Area (Ha):	1.49
Search Buffer (m):	100

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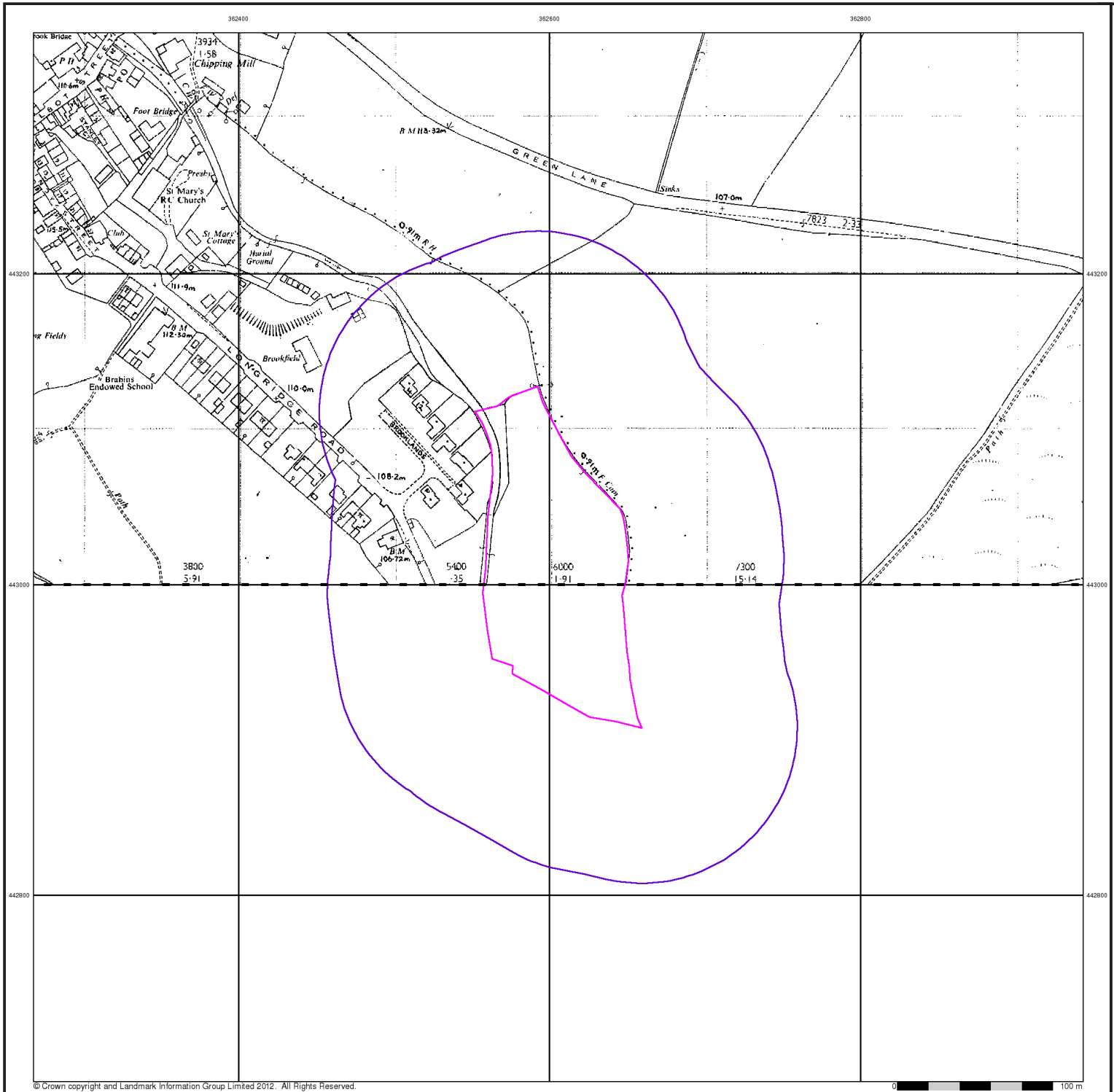

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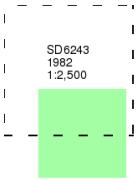
Additional SIMs

Published 1982

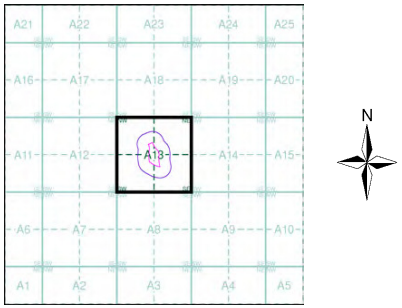
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	45486645_1_1
Customer Ref:	LKC 13 1086a
National Grid Reference:	362610, 443010
Slice:	A
Site Area (Ha):	1.49
Search Buffer (m):	100

Site Details

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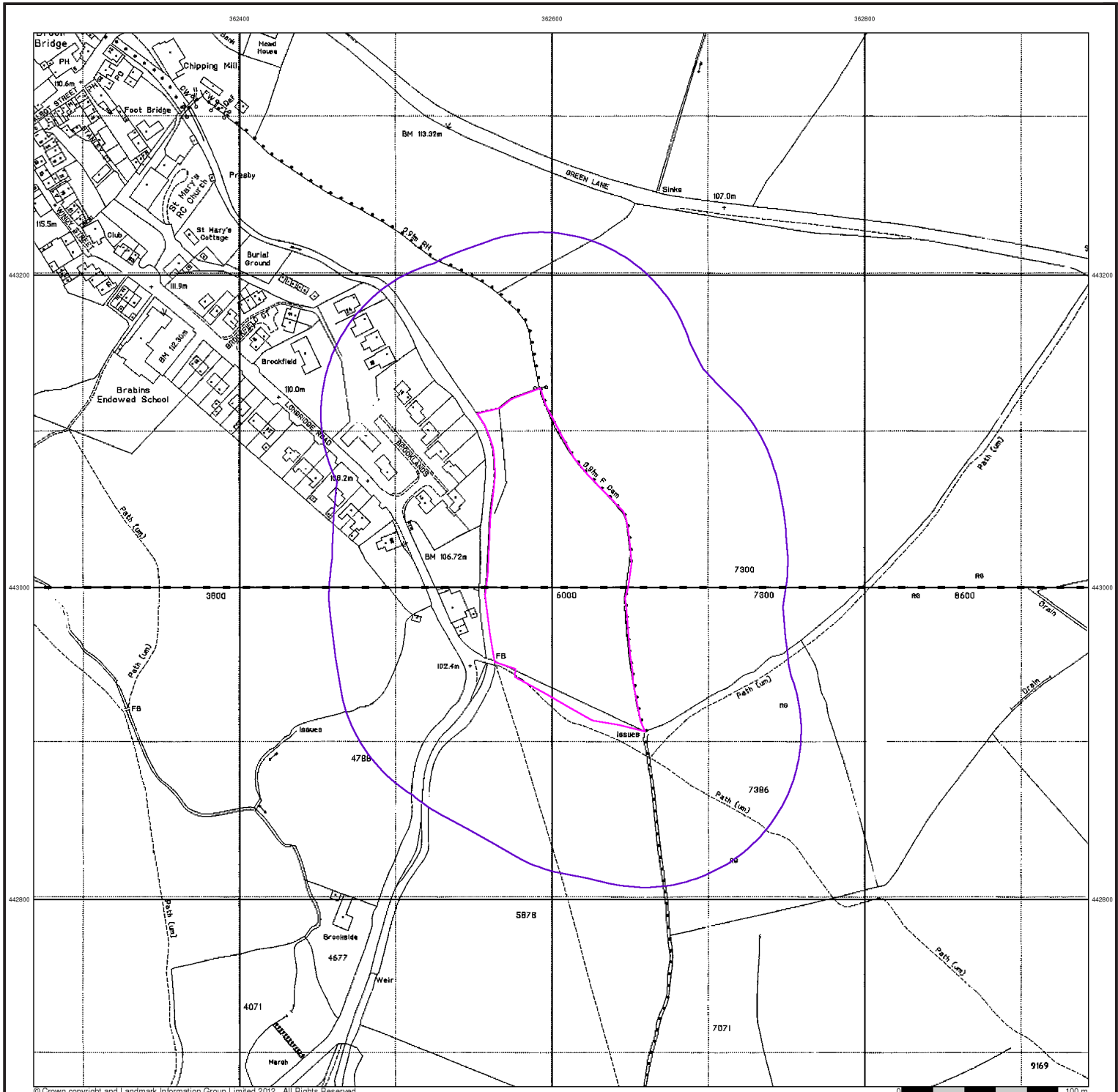

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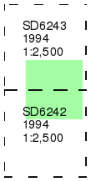
Large-Scale National Grid Data

Published 1994

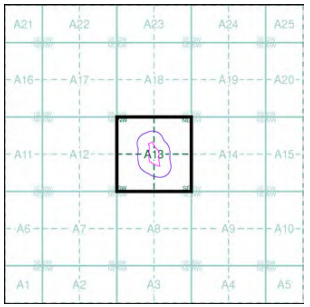
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	45486645_1_1
Customer Ref:	LKC 13 1086a
National Grid Reference:	362610, 443010
Slice:	A
Site Area (Ha):	1.49
Search Buffer (m):	100

Site Details

Land off Longridge Road, Chipping, Preston, PR3 2QD

Landmark Information Group

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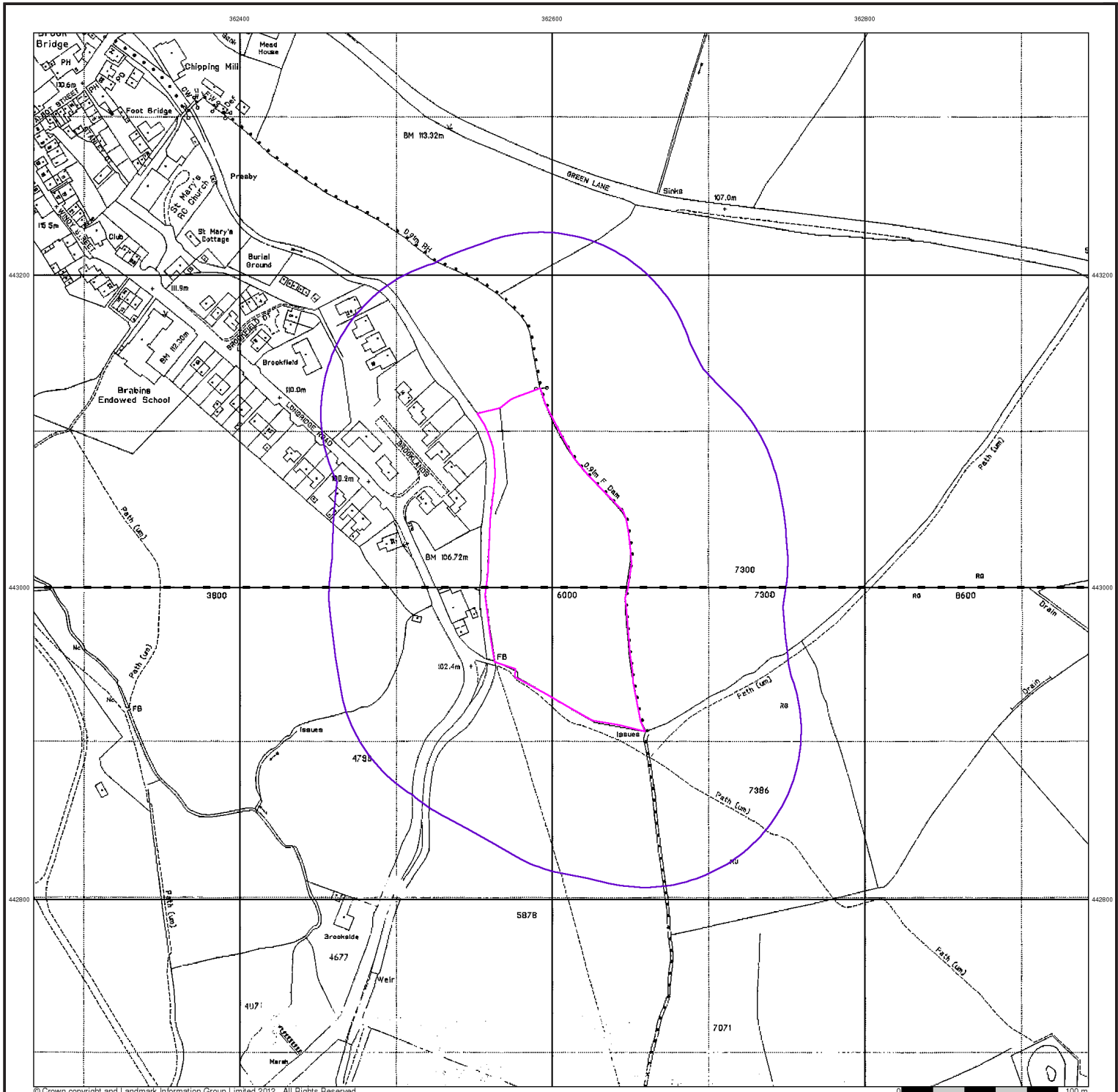

LK CONSULT LIMITED

Large-Scale National Grid Data

Published 1996

Source map scale - 1:2,500

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

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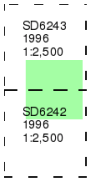
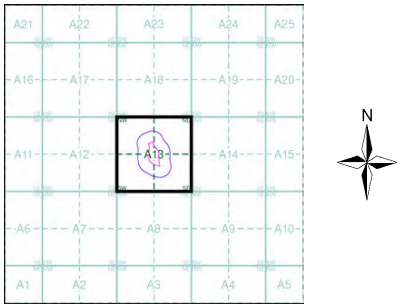


Historical Map - Segment A13



Order Details

Order Number:	45486645_1_1
Customer Ref:	LKC 13 1086a
National Grid Reference:	362610, 443010
Slice:	A
Site Area (Ha):	1.49
Search Buffer (m):	100

Site Details

Land off Longridge Road, Chipping, Preston, PR3 2QD

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

APPENDIX B

ENVIROCHECK REPORT

Envirocheck® Report:

Datasheet

Order Details:

Order Number:
45491088_1_1

Customer Reference:
LKC 13 1086

National Grid Reference:
361950, 443590

Slice:
A

Site Area (Ha):
4.4

Search Buffer (m):
250

Site Details:

Land at Malt Kiln Lane
Chipping
Preston
PR3 2GP

Client Details:

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

Contents

Introduction

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

In the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

Copyright Notice

Natural England Copyright Notice

Ove Arup Copyright Notice

Peter Brett Associates Copyright Notice

Radon Potential dataset Copyright Notice

Report Version v47.0

LK CONSULT LIMITED

Summary

Data Type	Page Number	On Site	0 to 250m (*up to 500m)
Agency & Hydrological			
Contaminated Land Register Entries and Notices			
Discharge Consents	pg 1		4
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 1	2	
Local Authority Pollution Prevention and Control Enforcements			
Nearest Surface Water Feature	pg 2	Yes	
Pollution Incidents to Controlled Waters	pg 2	1	5
Prosecutions Relating to Authorised Processes			
Prosecutions Relating to Controlled Waters			
Registered Radioactive Substances			
River Quality	pg 3	1	
River Quality Biology Sampling Points			
River Quality Chemistry Sampling Points			
Substantiated Pollution Incident Register			
Water Abstractions	pg 3		1
Water Industry Act Referrals			
Groundwater Vulnerability	pg 3	Yes	n/a
Bedrock Aquifer Designations	pg 3	Yes	n/a
Superficial Aquifer Designations	pg 3	Yes	n/a
Source Protection Zones			
Extreme Flooding from Rivers or Sea without Defences	pg 3	Yes	
Flooding from Rivers or Sea without Defences	pg 3	Yes	
Areas Benefiting from Flood Defences			
Flood Water Storage Areas			
Flood Defences			
Waste			
BGS Recorded Landfill Sites			
Historical Landfill Sites			
Integrated Pollution Control Registered Waste Sites			
Licensed Waste Management Facilities (Landfill Boundaries)			
Licensed Waste Management Facilities (Locations)			
Local Authority Recorded Landfill Sites			
Registered Landfill Sites			
Registered Waste Transfer Sites			
Registered Waste Treatment or Disposal Sites			

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Summary

Data Type	Page Number	On Site	0 to 250m (*up to 500m)
Hazardous Substances			
Control of Major Accident Hazards Sites (COMAH)			
Explosive Sites			
Notification of Installations Handling Hazardous Substances (NIHHS)			
Planning Hazardous Substance Consents			
Planning Hazardous Substance Enforcements			
Geological			
BGS 1:625,000 Solid Geology	pg 6	Yes	n/a
BGS Estimated Soil Chemistry	pg 6	Yes	Yes
BGS Recorded Mineral Sites			
BGS Urban Soil Chemistry			
BGS Urban Soil Chemistry Averages			
Brine Compensation Area			n/a
Coal Mining Affected Areas			n/a
Mining Instability			n/a
Man-Made Mining Cavities			
Natural Cavities			
Non Coal Mining Areas of Great Britain	pg 12	Yes	
Potential for Collapsible Ground Stability Hazards	pg 12	Yes	
Potential for Compressible Ground Stability Hazards	pg 12	Yes	
Potential for Ground Dissolution Stability Hazards	pg 12	Yes	
Potential for Landslide Ground Stability Hazards	pg 12	Yes	Yes
Potential for Running Sand Ground Stability Hazards	pg 13	Yes	
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 13	Yes	
Radon Potential - Radon Affected Areas	pg 13	Yes	n/a
Radon Potential - Radon Protection Measures	pg 13	Yes	n/a
Industrial Land Use			
Contemporary Trade Directory Entries	pg 15	4	2
Fuel Station Entries			

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Summary

Data Type	Page Number	On Site	0 to 250m (*up to 500m)
Sensitive Land Use			
Areas of Adopted Green Belt			
Areas of Unadopted Green Belt			
Areas of Outstanding Natural Beauty	pg 16	1	
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			

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**Discharge Consents** Operator: United Utilities Water Plc Property Type: Sewerage Network - Sewers - Water Company Location: North St Mary'S Church, Chipping, Lancashire Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 01rib0005 Permit Version: 2 Effective Date: 14th April 2009 Issued Date: 14th April 2009 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: Chipping Brook **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A11SE (SE)	147	1	362360 443300
1	**Discharge Consents** Operator: United Utilities Water Plc Property Type: Sewerage Network - Sewers - Water Company Location: North St Mary'S Church, Chipping, Lancashire Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01RIB0005 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 13th April 2009 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: Chipping Brook **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 100m	A11SE (SE)	147	1	362360 443300
2	**Discharge Consents** Operator: The Vicar Property Type: Domestic Property (Single) Location: St. Bartholomews Vicarage Garstang Road, Chipping, Preston, Lancashire, Pr3 2qh Authority: Environment Agency, North West Region Catchment Area: Loud Reference: 01361 Permit Version: 1 Effective Date: 30th December 1955 Issued Date: 30th December 1955 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Trib Of Chipping Brook **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 10m	A7NW (S)	238	1	362097 443161
3	**Discharge Consents** Operator: William Pye Ltd Property Type: Sewage Disposal Works - Other Location: William Pye Ltd Swo, Saunder Rake Mill, Chipping, Lancashire Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 017290149 Permit Version: 1 Effective Date: 8th September 1987 Issued Date: Not Supplied Revocation Date: 1st April 1994 Discharge Type: Discharge Of Other Matter-Surface Water Discharge Environment: Freshwater Stream/River Receiving Water: Chipping Brook **Status: Authorisation revokedRevoked** Positional Accuracy: Located by supplier to within 100m	A10NW (W)	242	1	361400 443700
4	**Local Authority Pollution Prevention and Controls** Name: H J Berry & Sons Ltd Location: Kirk Mills, Chipping, PRESTON, Lancashire, PR3 2RA Authority: Ribble Valley Borough Council, Environmental Health Department Permit Reference: Rvbc/Ppc/15/05 Dated: 29th June 1994 Process Type: Local Authority Pollution Prevention and Control Description: PG6/33 Wood coating **Status: Permitted** Positional Accuracy: Automatically positioned to the address	A11SW (E)	0	2	362069 443550

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	**Local Authority Pollution Prevention and Controls** Name: H J Berry & Sons Ltd Location: Kirk Mills, Chipping, PRESTON, Lancashire, PR3 2RA Authority: Ribble Valley Borough Council, Environmental Health Department Permit Reference: Rvbc/Ppc/14/04 Dated: 22nd June 1994 Process Type: Local Authority Pollution Prevention and Control Description: PG6/2 Manufacture of timber and wood-based products **Status: Permitted** Positional Accuracy: Automatically positioned to the address	A11SW (E)	0	2	362069 443550
	Nearest Surface Water Feature	A11SW (SE)	0	-	362083 443522
5	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Lancashire Authority: Environment Agency, North West Region Pollutant: Unknown Note: Chipping Brook; No Pollution Found Incident Date: 29th April 1996 Incident Reference: 96340033 Catchment Area: Hodder Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A10SE (SW)	0	1	361900 443500
6	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Lancashire Authority: Environment Agency, North West Region Pollutant: Not Given Note: Chipping Brook Incident Date: 4th May 1991 Incident Reference: 91340039 Catchment Area: Hodder Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A11SW (E)	9	1	362200 443500
6	**Pollution Incidents to Controlled Waters** Property Type: Private Sewage (Non-PLC): Water Distribution System Location: Discharge At Chipping By Nww Authority: Environment Agency, North West Region Pollutant: Raw Water Note: Not Supplied Incident Date: 23rd April 1998 Incident Reference: CE980355 Catchment Area: Ribble - Non-Tidal Receiving Water: Freshwater Stream/River Cause of Incident: Inadequate Design/Capacity Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A11SW (E)	12	1	362205 443495
7	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Foul Sewer Location: Sewer To Chipping Brook Authority: Environment Agency, North West Region Pollutant: Surcharged Sewage Note: Not Supplied Incident Date: 6th January 1997 Incident Reference: CE980009 Catchment Area: Hodder Receiving Water: Freshwater Stream/River Cause of Incident: Blocked Sewer Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A10NE (NW)	35	1	361700 443800
8	**Pollution Incidents to Controlled Waters** Property Type: Manufacturing: Wood Products / Timber Treatment Location: Chainworks, Chipping Authority: Environment Agency, North West Region Pollutant: Organic Chemicals : Hydraulic Oils / Fluids Note: Not Supplied Incident Date: 14th January 1999 Incident Reference: 1609 Catchment Area: Hodder Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Approximate location provided by supplier	A11NW (NE)	68	1	362000 443700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	**Pollution Incidents to Controlled Waters** Property Type: Domestic & Residential: Private Dwellings Location: Main Street by The Talbot Hotel, Lancashire Authority: Environment Agency, North West Region Pollutant: Organic Chemicals : Fuel Oils (domestic) Note: Not Supplied Incident Date: 8th July 1999 Incident Reference: 29864 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Structural Failure : Steel Tank / Vessel / Drum - Above Ground Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A11SE (SE)	100	1	362300 443300
	River Quality Name: Chipping Bk GQA Grade: River Quality A Reach: Qsl Dobsons Bk To Loud Estimated Distance (km): 2.8 Flow Rate: Flow less than 0.62 cumecs Flow Type: River Year: 2000	A11NW (NE)	0	1	361986 443624
10	**Water Abstractions** Operator: H J Berry & Sons Ltd Licence Number: 2671317010 Permit Version: Not Supplied Location: Chipping, PRESTON, Lancashire Authority: Environment Agency, North West Region Abstraction: Private Water Supply (Pisciculture) Abstraction Type: Not Supplied Source: Unknown Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Chipping Brook Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A11SW (SE)	46	1	362100 443400
	Groundwater Vulnerability Soil Classification: Soils of Low Leaching Potential - Soils in which pollutants are unlikely to penetrate the soil layer because water movement is largely horizontal or they have large ability to attenuate diffuse pollutants. Lateral flow from these soils contribute to groundwater recharge elsewhere in the catchment Map Sheet: Sheet 10 Central Lancashire Scale: 1:100,000	A11NW (SE)	0	1	361952 443585
	Drift Deposits Drift Deposit: Low permeability drift deposits occuring at the surface and overlying Major and Minor Aquifers are head, clay-with-flints, brickearth, peat, river terrace deposits and marine and estuarine alluvium Map Sheet: Sheet 10 Central Lancashire Scale: 1:100,000	A11NW (NE)	0	1	361979 443610
	Bedrock Aquifer Designations Aquifer Desination: Secondary Aquifer - A	A11NW (SE)	0	3	361952 443585
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A11NW (SE)	0	3	361952 443585
	Superficial Aquifer Designations Aquifer Designation: Unproductive Strata	A10SE (S)	0	3	361947 443559
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A10SE (SW)	0	1	361946 443581
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A10SE (SW)	0	1	361946 443577
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Flood Defences None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Ribble Valley Borough Council - Had landfill data but passed it to the relevant environment agency		0	2	361952 443585
	Local Authority Landfill Coverage Name: Lancashire County Council - Had landfill data but passed it to the relevant environment agency		0	6	361952 443585

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Tournaisian and Visean (Carboniferous Limestone Series)	A11NW (SE)	0	3	361952 443585
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A10NE (NW)	0	4	361727 443789
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A11SW (SE)	0	4	362158 443409
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A10NE (NW)	0	4	361893 443727
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: 1.8 - 2.2 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A10NE (NW)	0	4	361845 443691
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A11SW (E)	0	4	362000 443582
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A11NW (E)	0	4	362000 443585

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 Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A11NW (SE)	0	4	361952 443585
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A10SE (S)	0	4	361947 443558
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A11SW (SE)	0	4	362171 443422
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A11SW (SE)	0	4	362221 443473
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A11SW (SE)	0	4	362079 443430
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: 1.8 - 2.2 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A11SW (SE)	0	4	362137 443477

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: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A10NE (NW)	0	4	361713 443774
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A10NE (NW)	0	4	361927 443622
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A10SE (SW)	0	4	361870 443527
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A11SW (SE)	0	4	362158 443497
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A10NE (NW)	0	4	361836 443668
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A11NW (NE)	0	4	362000 443662

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 Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A11SW (E)	17	4	362224 443476
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A11NW (NE)	52	4	362012 443673
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: 1.8 - 2.2 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A11NW (NE)	53	4	362000 443682
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A11NW (N)	73	4	362000 443707
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: 1.8 - 2.2 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A11NW (N)	108	4	362000 443779
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A11SE (SE)	110	4	362376 443397

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 Concentration: 15 - 25 mg/kg Cadmium Concentration: 1.8 - 2.2 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A11SE (SE)	110	4	362351 443346
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: 1.8 - 2.2 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A10NE (NW)	112	4	361818 443886
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A11SE (SE)	138	4	362305 443258
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SW (NW)	178	4	361602 443985
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A11NW (N)	180	4	362000 443843
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SE (N)	210	4	361812 444000

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 Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SE (NW)	212	4	361619 444000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: 1.8 - 2.2 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SE (N)	214	4	361882 443969
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: 1.8 - 2.2 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SE (N)	222	4	361883 443969
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SE (N)	227	4	361857 444000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SE (N)	239	4	361877 444000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SE (N)	248	4	361890 444000
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A11NW (SE)	0	3	361952 443585
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10SE (S)	0	3	361947 443559
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11NW (SE)	0	3	361952 443585
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A11NW (SE)	0	3	361952 443585
	Potential for Compressible Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11SW (E)	0	3	362221 443477
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10SE (S)	0	3	361947 443559
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SW (SE)	0	3	362172 443423
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10NE (NW)	0	3	361728 443790
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11SW (SE)	0	3	362159 443410
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11SW (E)	0	3	362222 443474
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A10NE (NW)	0	3	361714 443775
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11SW (SE)	0	3	362231 443398
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11SW (SE)	0	3	362140 443469
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11SW (SE)	0	3	362210 443479
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A10SE (W)	0	3	361923 443576
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11NW (NE)	0	3	361992 443613
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A10NE (NW)	0	3	361790 443756
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A10NE (NW)	0	3	361852 443674
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NW (SE)	0	3	361952 443585
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A10NE (NW)	4	3	361804 443699

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A10NE (NW)	11	3	361764 443796
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A10NE (N)	55	3	361907 443751
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A10NE (NW)	113	3	361818 443887
	Potential for Landslide Ground Stability Hazards Hazard Potential: High Source: British Geological Survey, National Geoscience Information Service	A10NE (NW)	120	3	361819 443887
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A10NE (NW)	124	3	361794 443898
	Potential for Landslide Ground Stability Hazards Hazard Potential: High Source: British Geological Survey, National Geoscience Information Service	A14SE (N)	215	3	361879 443970
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A14SE (N)	222	3	361884 443970
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11NW (SE)	0	3	361952 443585
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10SE (S)	0	3	361947 443559
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10NE (NW)	113	3	361819 443887
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A14SE (N)	215	3	361884 443970
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SW (E)	0	3	362222 443474
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NW (SE)	0	3	361952 443585
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11NW (NE)	53	3	362013 443674
	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	A11NW (SE)	0	3	361952 443585
	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	A10NE (NW)	0	3	361926 443601
	Radon Potential - Radon Protection Measures Protection Measure: Basic radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A11NW (NE)	0	3	361976 443601
	Radon Potential - Radon Protection Measures Protection Measure: Basic radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A11SW (E)	0	3	362151 443526
	Radon Potential - Radon Affected Areas Affected Area: The property is in a radon affected area, as between 1 and 3% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A11NW (SE)	0	3	361952 443585

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Radon Potential - Radon Affected Areas Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A10NE (NW)	0	3	361926 443601
	Radon Potential - Radon Affected Areas Affected Area: The property is in a radon affected area, as between 5 and 10% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A11NW (NE)	0	3	361976 443601
	Radon Potential - Radon Affected Areas Affected Area: The property is in a radon affected area, as between 5 and 10% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A11SW (E)	0	3	362151 443526

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	**Contemporary Trade Directory Entries** Name: H J Berry & Son Ltd Location: Kirk Mills, Chipping, Preston, PR3 2RA Classification: Furniture Manufacturers - Home & Office **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A11SW (E)	0	-	362069 443550
11	**Contemporary Trade Directory Entries** Name: H J Berry & Sons Ltd Location: Kirk Mills, Chipping, PRESTON, PR3 2RA Classification: Furniture Manufacturers - Home & Office **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A11SW (E)	0	-	362069 443550
11	**Contemporary Trade Directory Entries** Name: H J Berry & Sons Ltd Location: Kirk Mills, Chipping, Preston, Lancashire, PR3 2RA Classification: Furniture Manufacturers - Home & Office **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A11SW (E)	0	-	362069 443550
11	**Contemporary Trade Directory Entries** Name: H J Berry & Sons Ltd Location: Kirk Mills, Chipping, Preston, PR3 2RA Classification: Furniture Manufacturers - Home & Office **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A11SW (E)	0	-	362069 443550
12	**Contemporary Trade Directory Entries** Name: Chipping Garage Location: Talbot Street, Chipping, Preston, PR3 2QE Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A11SE (SE)	130	-	362384 443367
13	**Contemporary Trade Directory Entries** Name: First Call Fire Protection Services Location: The Field, Old Hive, Chipping, Preston, PR3 2QQ Classification: Firefighting Equipment **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10SE (SW)	144	-	361808 443375

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	**Areas of Outstanding Natural Beauty** Name: Forest Of Bowland Multiple Areas: Y Total Area (m2): 805733322.62 Designation Date: 29th February 1964 Source: Natural England	A11NW (SE)	0	5	361952 443585

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Ribble Valley Borough Council - Environmental Health Department	February 2013	Annual Rolling Update
Discharge Consents Environment Agency - North West Region	January 2013	Quarterly
Enforcement and Prohibition Notices Environment Agency - North West Region	March 2013	Quarterly
Integrated Pollution Controls Environment Agency - North West Region	October 2008	Not Applicable
Integrated Pollution Prevention And Control Environment Agency - North West Region	January 2013	Quarterly
Local Authority Integrated Pollution Prevention And Control Ribble Valley Borough Council - Environmental Health Department	November 2012	Annual Rolling Update
Local Authority Pollution Prevention and Controls Ribble Valley Borough Council - Environmental Health Department	November 2012	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Ribble Valley Borough Council - Environmental Health Department	November 2012	Annual Rolling Update
Nearest Surface Water Feature Ordnance Survey	July 2012	Quarterly
Pollution Incidents to Controlled Waters Environment Agency - North West Region	January 2000	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - North West Region	March 2013	Monthly
Prosecutions Relating to Controlled Waters Environment Agency - North West Region	March 2013	Monthly
Registered Radioactive Substances Environment Agency - North West Region	January 2013	Quarterly
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area	January 2013 January 2013	Quarterly Quarterly
Water Abstractions Environment Agency - North West Region	January 2013	Quarterly
Water Industry Act Referrals Environment Agency - North West Region	January 2013	Quarterly
Groundwater Vulnerability Environment Agency - Head Office	January 2011	Not Applicable
Drift Deposits Environment Agency - Head Office	January 1999	Not Applicable
Bedrock Aquifer Designations British Geological Survey - National Geoscience Information Service	October 2012	Annually
Superficial Aquifer Designations British Geological Survey - National Geoscience Information Service	October 2012	Annually
Source Protection Zones Environment Agency - Head Office	January 2013	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	January 2013	Quarterly

Data Currency

Agency & Hydrological	Version	Update Cycle
Flooding from Rivers or Sea without Defences		
Environment Agency - Head Office	January 2013	Quarterly
Areas Benefiting from Flood Defences		
Environment Agency - Head Office	January 2013	Quarterly
Flood Water Storage Areas		
Environment Agency - Head Office	January 2013	Quarterly
Flood Defences		
Environment Agency - Head Office	January 2013	Quarterly
Waste	**Version**	**Update Cycle**
BGS Recorded Landfill Sites		
British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites		
Environment Agency - North West Region - Central Area	January 2013	Quarterly
Environment Agency - North West Region - North Area	January 2013	Quarterly
Integrated Pollution Control Registered Waste Sites		
Environment Agency - North West Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries)		
Environment Agency - North West Region - Central Area	January 2013	Quarterly
Environment Agency - North West Region - North Area	January 2013	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency - North West Region - Central Area	January 2013	Quarterly
Environment Agency - North West Region - North Area	January 2013	Quarterly
Local Authority Landfill Coverage		
Lancashire County Council - Waste Management Group	May 2000	Not Applicable
Ribble Valley Borough Council - Environmental Health Department	May 2000	Not Applicable
Local Authority Recorded Landfill Sites		
Lancashire County Council - Waste Management Group	May 2000	Not Applicable
Ribble Valley Borough Council - Environmental Health Department	May 2000	Not Applicable
Registered Landfill Sites		
Environment Agency - North West Region - Central Area	March 2003	Not Applicable
Environment Agency - North West Region - North Area	March 2003	Not Applicable
Registered Waste Transfer Sites		
Environment Agency - North West Region - Central Area	March 2003	Not Applicable
Environment Agency - North West Region - North Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites		
Environment Agency - North West Region - Central Area	March 2003	Not Applicable
Environment Agency - North West Region - North Area	March 2003	Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	March 2013	Bi-Annually
Explosive Sites Health and Safety Executive	March 2013	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Ribble Valley Borough Council Lancashire County Council	June 2012 November 2012	Annual Rolling Update Annual Rolling Update
Planning Hazardous Substance Consents Ribble Valley Borough Council Lancashire County Council	June 2012 November 2012	Annual Rolling Update Annual Rolling Update
Geological	**Version**	**Update Cycle**
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	August 1996	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	January 2010	Variable
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	October 2012	Bi-Annually
Brine Compensation Area Cheshire Brine Subsidence Compensation Board	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Mining Report Service	January 2012	As notified
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	February 2011	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	As notified
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	As notified
Industrial Land Use	**Version**	**Update Cycle**
Contemporary Trade Directory Entries Thomson Directories	November 2012	Quarterly
Fuel Station Entries Catalist Ltd - Experian	February 2013	Quarterly

Data Currency

Sensitive Land Use	Version	Update Cycle
Areas of Adopted Green Belt Ribble Valley Borough Council	February 2013	As notified
Areas of Unadopted Green Belt Ribble Valley Borough Council	February 2013	As notified
Areas of Outstanding Natural Beauty Natural England	March 2013	Bi-Annually
Environmentally Sensitive Areas Natural England	February 2013	Annually
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	November 2012	Bi-Annually
Marine Nature Reserves Natural England	August 2012	Bi-Annually
National Nature Reserves Natural England	February 2013	Bi-Annually
National Parks Natural England	February 2013	Bi-Annually
Nitrate Sensitive Areas Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	February 2012	Not Applicable
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	February 2013	Annually
Ramsar Sites Natural England	February 2013	Bi-Annually
Sites of Special Scientific Interest Natural England	February 2013	Bi-Annually
Special Areas of Conservation Natural England	February 2013	Bi-Annually
Special Protection Areas Natural England	February 2013	Bi-Annually

Data Suppliers

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	
Centre for Ecology and Hydrology	
Countryside Council for Wales	
Scottish Natural Heritage	
Natural England	
Health Protection Agency	
Ove Arup	
Peter Brett Associates	

Useful Contacts

Contact	Name and Address	Contact Details
1	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 08708 506 506 Email: enquiries@environment-agency.gov.uk
2	**Ribble Valley Borough Council - Environmental Health Department** Council Offices, Church Walk, Clitheroe, Lancashire, BB7 2RA	Telephone: 01200 425111 Fax: 01200 26339 Website: www.ribblevalley.gov.uk
3	**British Geological Survey - Enquiry Service** British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
4	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmark.co.uk Website: www.landmarkinfo.co.uk
5	**Natural England** Northminster House, Northminster Road, Peterborough, Cambridgeshire, PE1 1UA	Telephone: 0845 600 3078 Fax: 01733 455103 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
6	**Lancashire County Council - Waste Management Group** Environment Directorate, Guild House, Cross Street, Preston, Lancashire, PR1 8RD	Website: www.lancashire.gov.uk
-	**Health Protection Agency - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards** Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@hpa.org.uk Website: www.hpa.org.uk
-	**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 / 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
	WGR	Worked Ground (Undivided)	Void	Holocene - Holocene
	SLIP	Landslide Deposit	Unknown/Unclassified Entry	Quaternary - Quaternary

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	SUPNM	Superficial Theme Not Mapped [For Digital Map Use Only]	Unknown/Unclassified Entry	Not Applicable - Not Applicable
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Flandrian - Flandrian
	TILLD	Till, Devensian	Diamicton	Devensian - Devensian
	GFDUD	Glaciofluvial Deposits, Devensian	Sand and Gravel	Devensian - Devensian
	GLLD	Glaciolacustrine Deposits	Clay and Silt	Pleistocene - Pleistocene
	GLLD	Glaciolacustrine Deposits	Sand	Pleistocene - Pleistocene
	ALF	Alluvial Fan Deposits	Gravel, Sand, Silt and Clay	Quaternary - Quaternary
	PEAT	Peat	Peat	Quaternary - Quaternary
	HEAD	Head	Clay, Silt, Sand and Gravel	Quaternary - Quaternary
	RTDU	River Terrace Deposits (Undifferentiated)	Sand and Gravel	Quaternary - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	PG	Pendle Grit Member	Silty Sandstone	Pendleian - Pendleian
	PG	Pendle Grit Member	Sandstone and Siltstone, Interbedded	Pendleian - Pendleian
	PNDS	Pendleside Sandstone Member	Sandstone	Brigantian - Brigantian
	PKSL	Park Style Limestone Member	Limestone	Brigantian - Asbian
	BSG	Bowland Shale Formation	Mudstone and Siltstone	Yeadonian - Asbian
	BSG	Bowland Shale Formation	Sandstone and Mudstone	Yeadonian - Asbian
	BSG	Bowland Shale Formation	Mudstone	Yeadonian - Asbian
	PDL	Pendleside Limestone Formation	Limestone	Asbian - Holkerian
	RKM	Rad Brook Mudstone Member	Mudstone	Holkerian - Holkerian
	BOH	Hodderense Limestone Formation	Limestone	Holkerian - Holkerian
	CHGL	Chaigley Limestone Member	Limestone	Arundian - Arundian
	HOM	Hodder Mudstone Formation	Mudstone	Holkerian - Chadian
	LMKL	Limekiln Wood Limestone Member	Limestone	Chadian - Chadian
	BNKS	Buckbanks Sandstone Member	Sandstone	Chadian - Chadian
	CLLK	Clitheroe Limestone Formation (Knoll-Reef)	Limestone	Chadian - Chadian
	THTL	Thornton Limestone Member	Limestone	Chadian - Chadian
		Faults		

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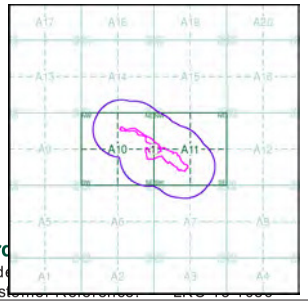
Geology 1:50,000 Maps

This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published paper maps.
The various geological layers - artificial and landslip deposits, superficial geology and solid (bedrock) geology are displayed in separate maps, but superimposed on the final 'Combined Surface Geology' map. All map legends feature on this page. Not all layers have complete nationwide coverage, so availability of data for relevant map sheets is indicated below.

Geology 1:50,000 Maps Coverage

Map ID:	1
Map Sheet No:	067
Map Name:	Garstang
Map Date:	1999
Bedrock Geology:	Available
Superficial Geology:	Available
Artificial Geology:	Available
Faults:	Available
Landslip:	Available
Rock Segments:	Not Available

Geology 1:50,000 Maps - Slice A



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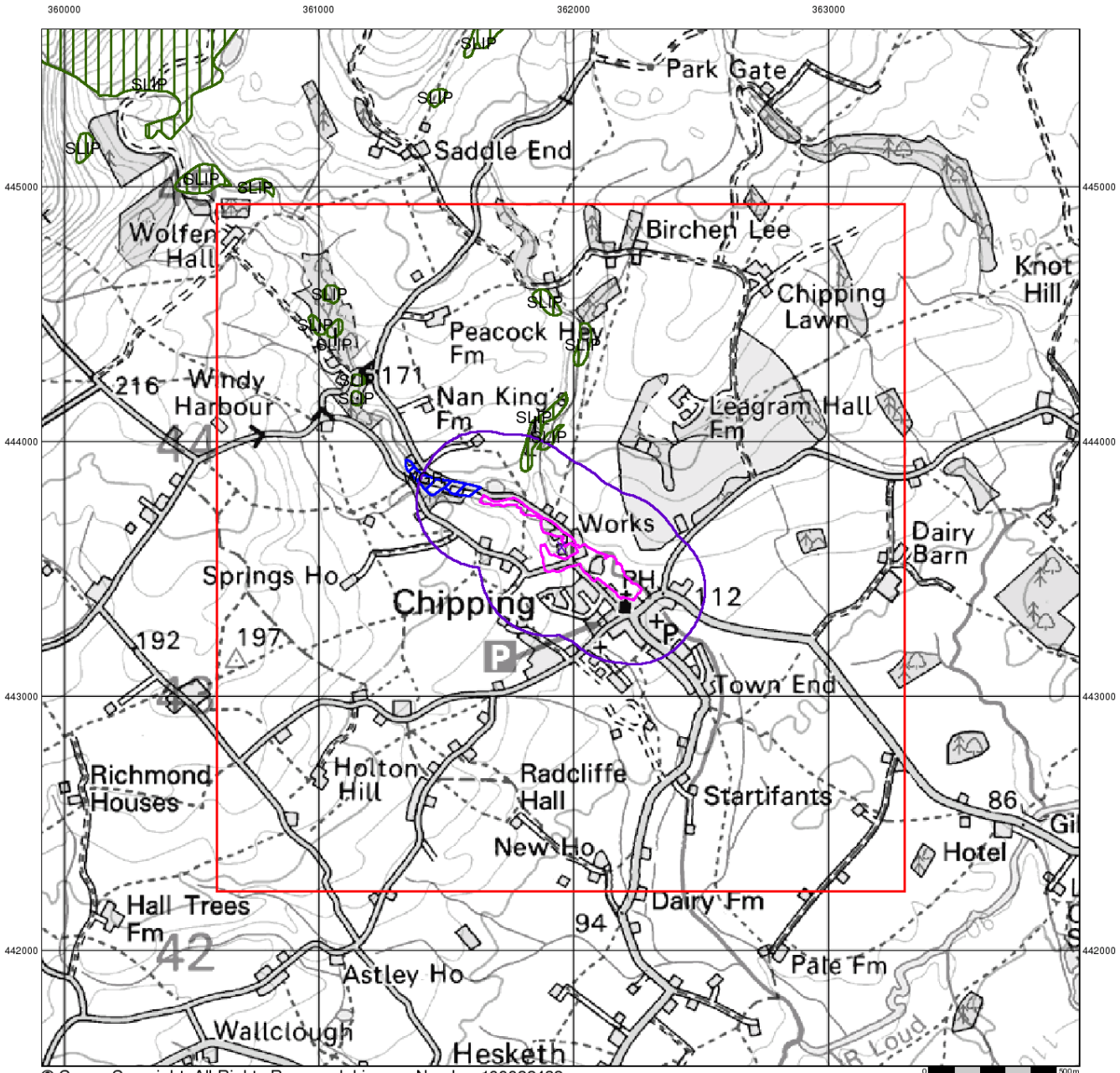
National Grid Reference: 361950, 443590
Slice: A
Site Area (Ha): 4.4
Search Buffer (m): 250

Site Details:

Land at Malt Kiln Lane, Chipping, Preston, PR3 2GP

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



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Artificial Ground and Landslip

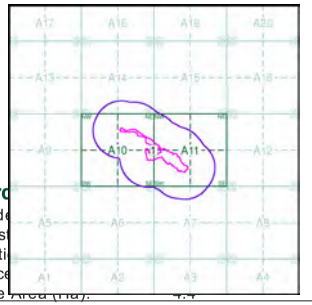
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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

Artificial ground includes:

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

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

Artificial Ground and Landslip Map - Slice A



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Land at Malt Kiln Lane, Chipping, Preston, PR3 2GP

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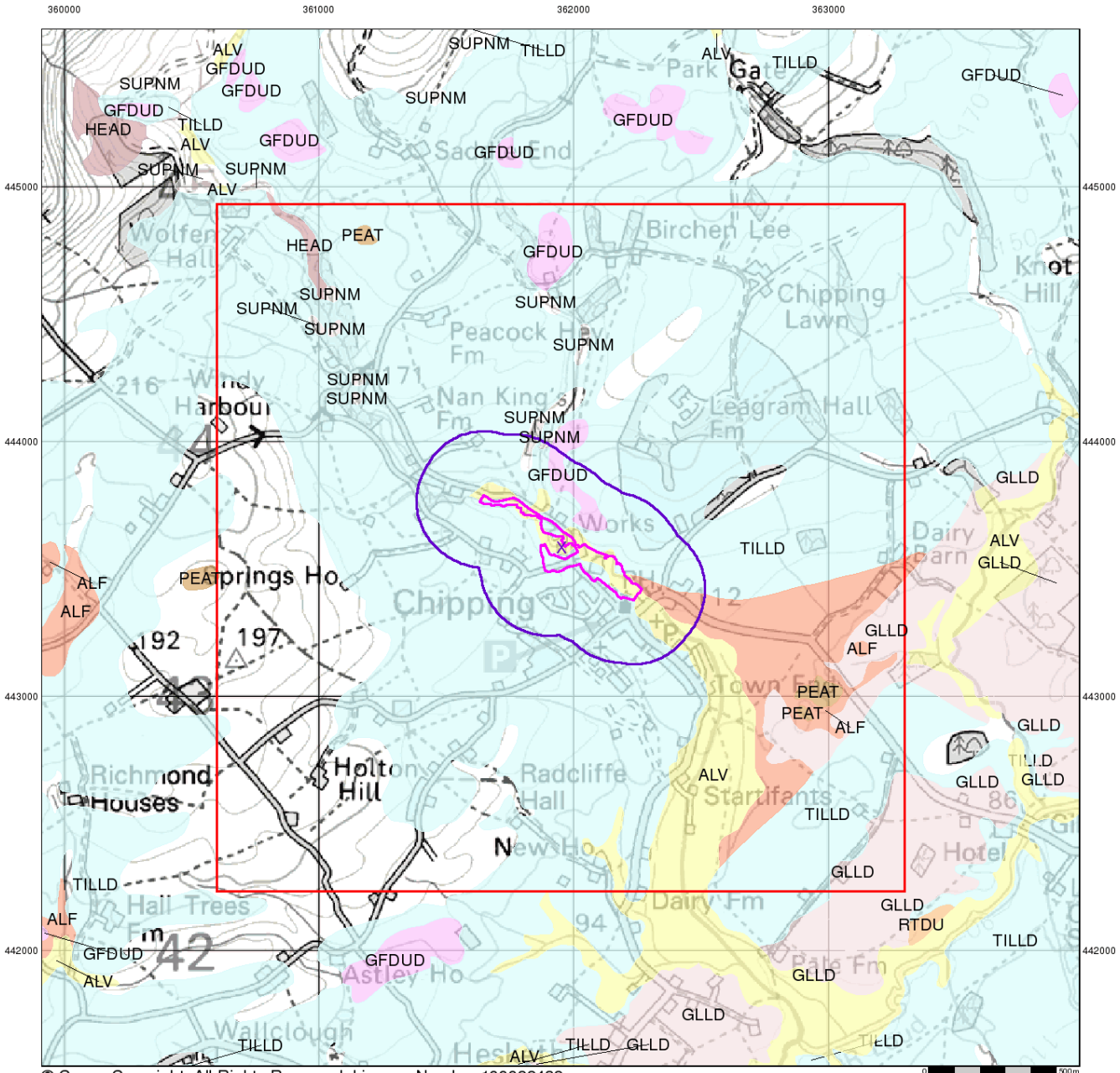

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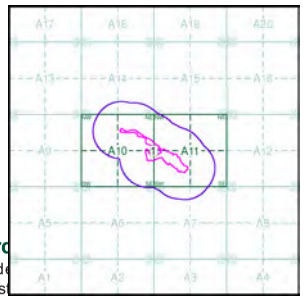
Superficial Geology

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



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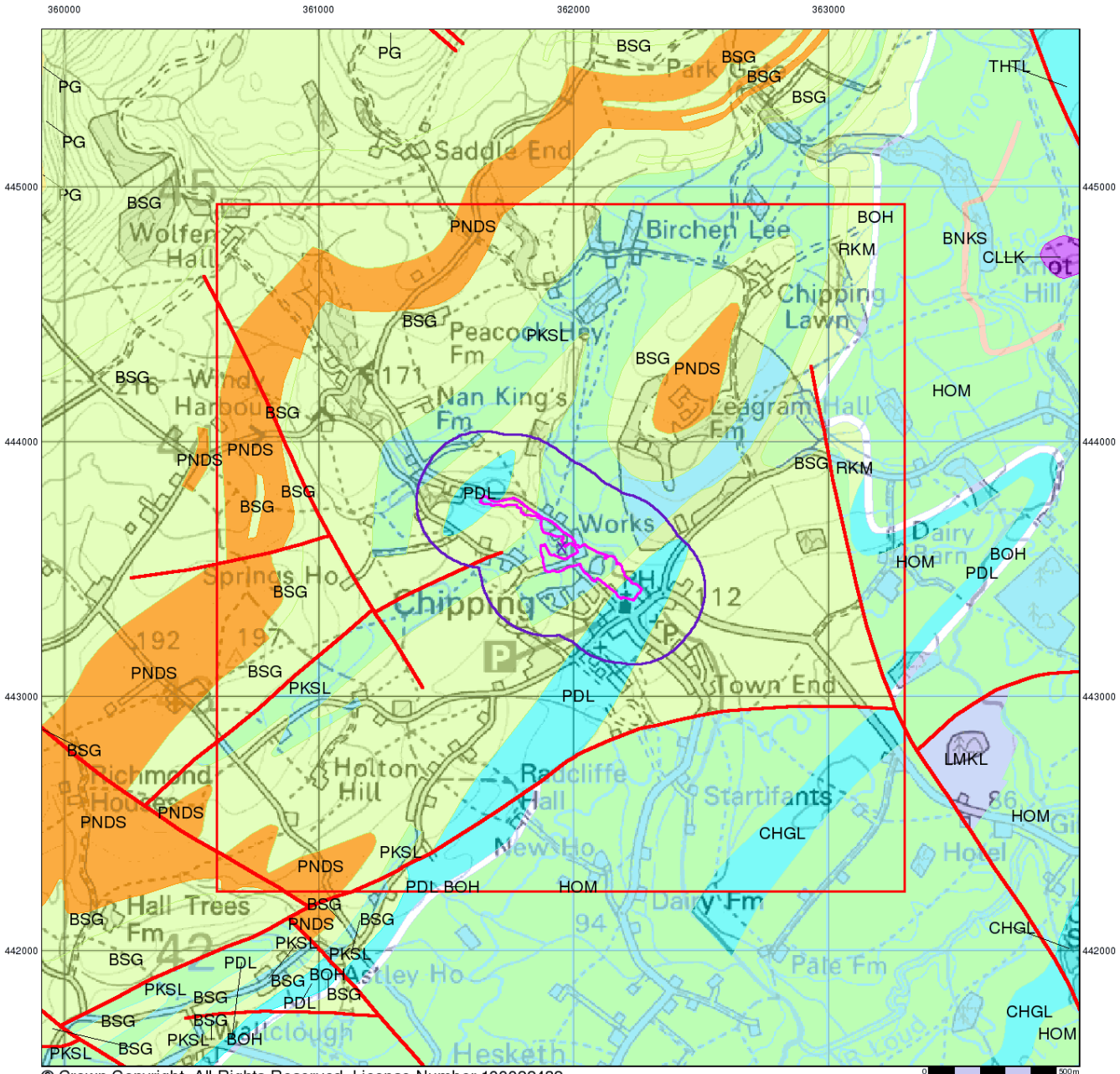

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Bedrock and Faults

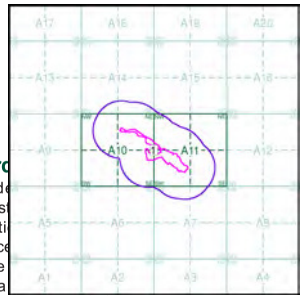
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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



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Site Details:

Land at Malt Kiln Lane, Chipping, Preston, PR3 2GP

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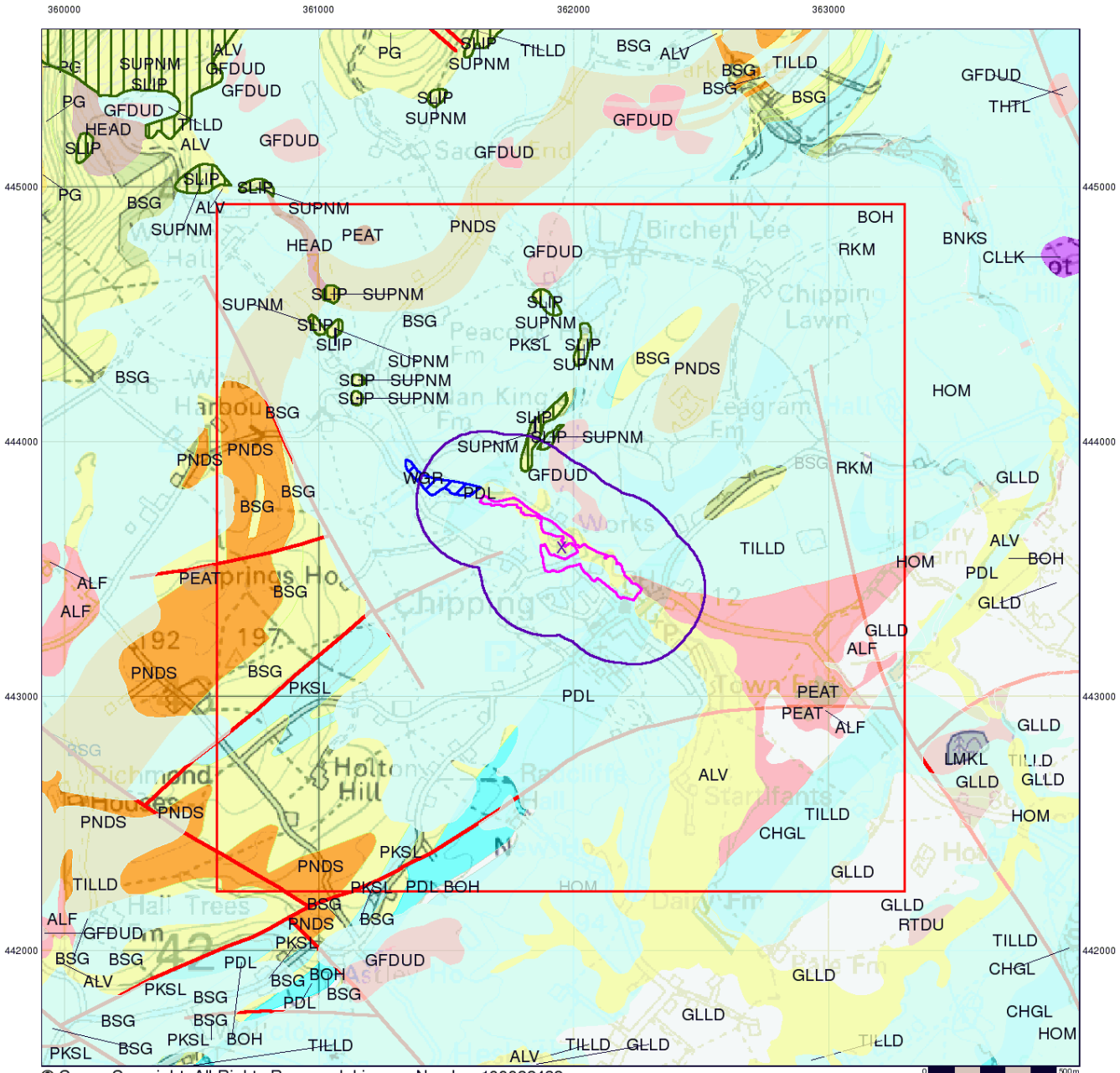

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Combined Surface Geology

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.

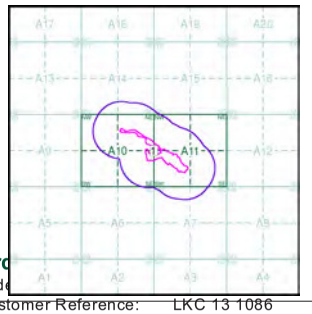
Additional Information

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



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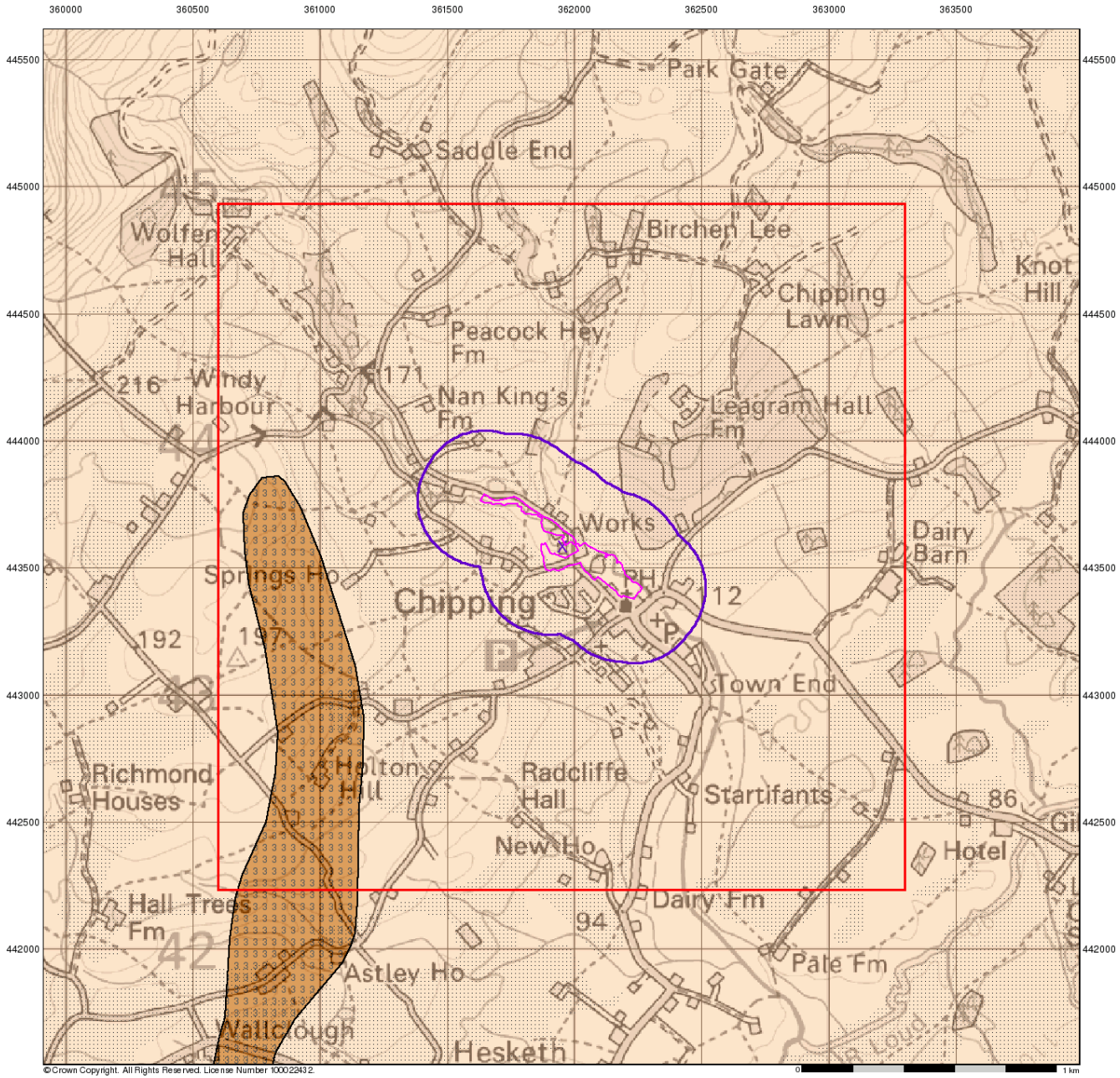
Customer Reference:	LKC 13 1086
National Grid Reference:	361950, 443590
Slice:	A
Site Area (Ha):	4.4
Search Buffer (m):	250

Site Details:

Land at Malt Kiln Lane, Chipping, Preston, PR3 2GP



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Groundwater Vulnerability

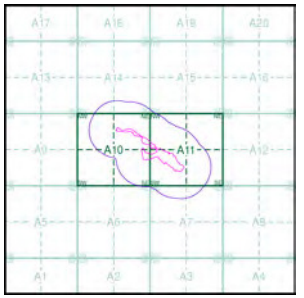
General

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

Agency and Hydrological

Geological Classes	Soil Classes
Major Aquifer (Highly Permeable)	High (H) 1, 2, 3, U
	Intermediate (I) 1, 2
	Low
Minor Aquifer (Variably Permeable)	High (H) 1, 2, 3, U
	Intermediate (I) 1, 2
	Low
Non Aquifer (Negligibly Permeable)	
Water or Sea	
Drift Deposit	

Site Sensitivity Context Map - Slice A



Order Details

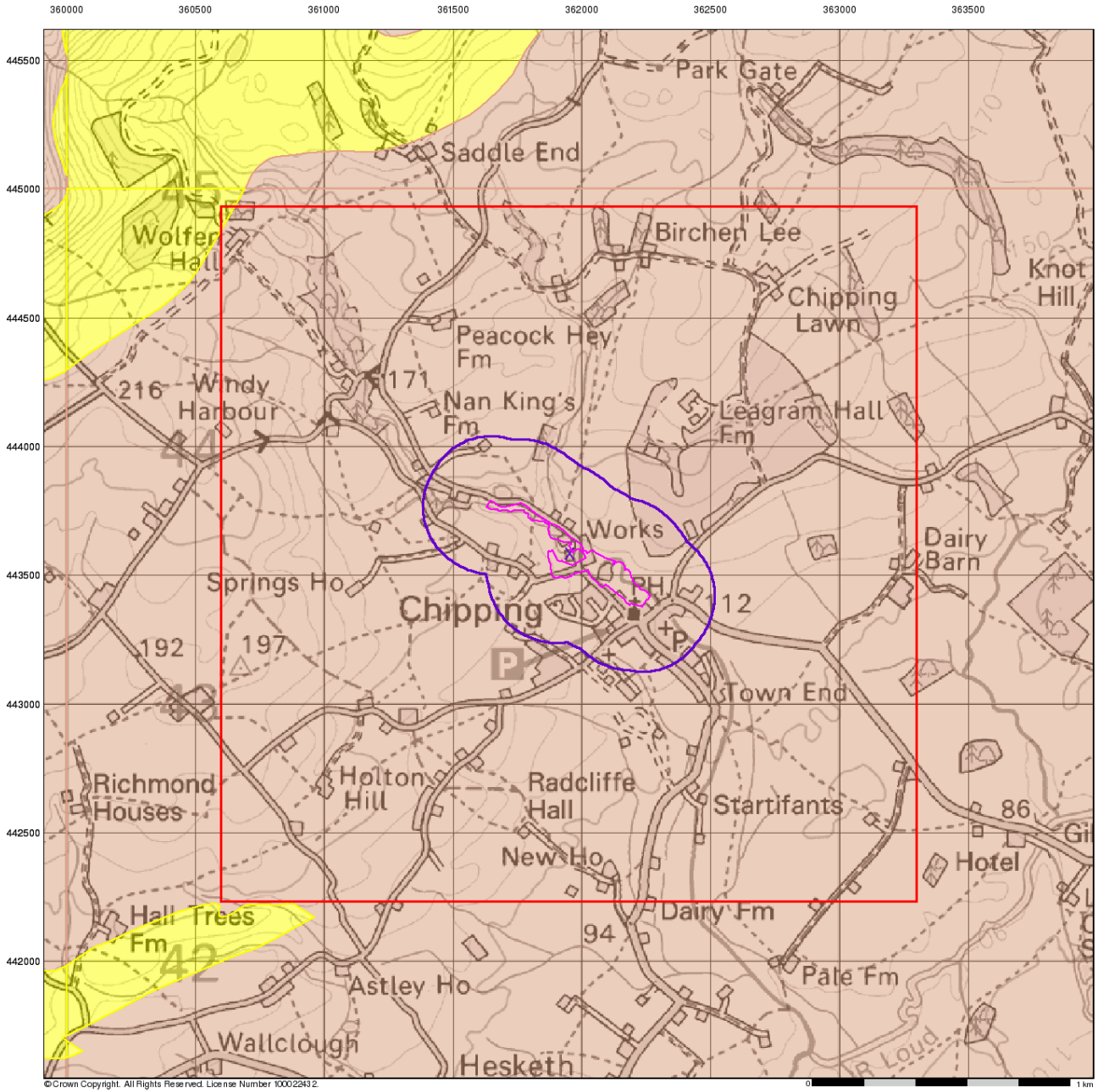
Order Number:	45491088_1_1
Customer Ref:	LKC 13 1086
National Grid Reference:	361950, 443590
Slice:	A
Site Area (Ha):	4.4
Search Buffer (m):	250

Site Details

Land at Malt Kiln Lane, Chipping, Preston, PR3 2GP

Landmark Information Group

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



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Bedrock Aquifer Designation

General

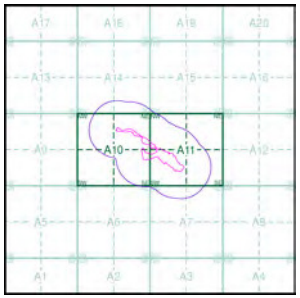
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

Order Number:	45491088_1_1
Customer Ref:	LKC 13 1086
National Grid Reference:	361950, 443590
Slice:	A
Site Area (Ha):	4.4
Search Buffer (m):	250

Site Details

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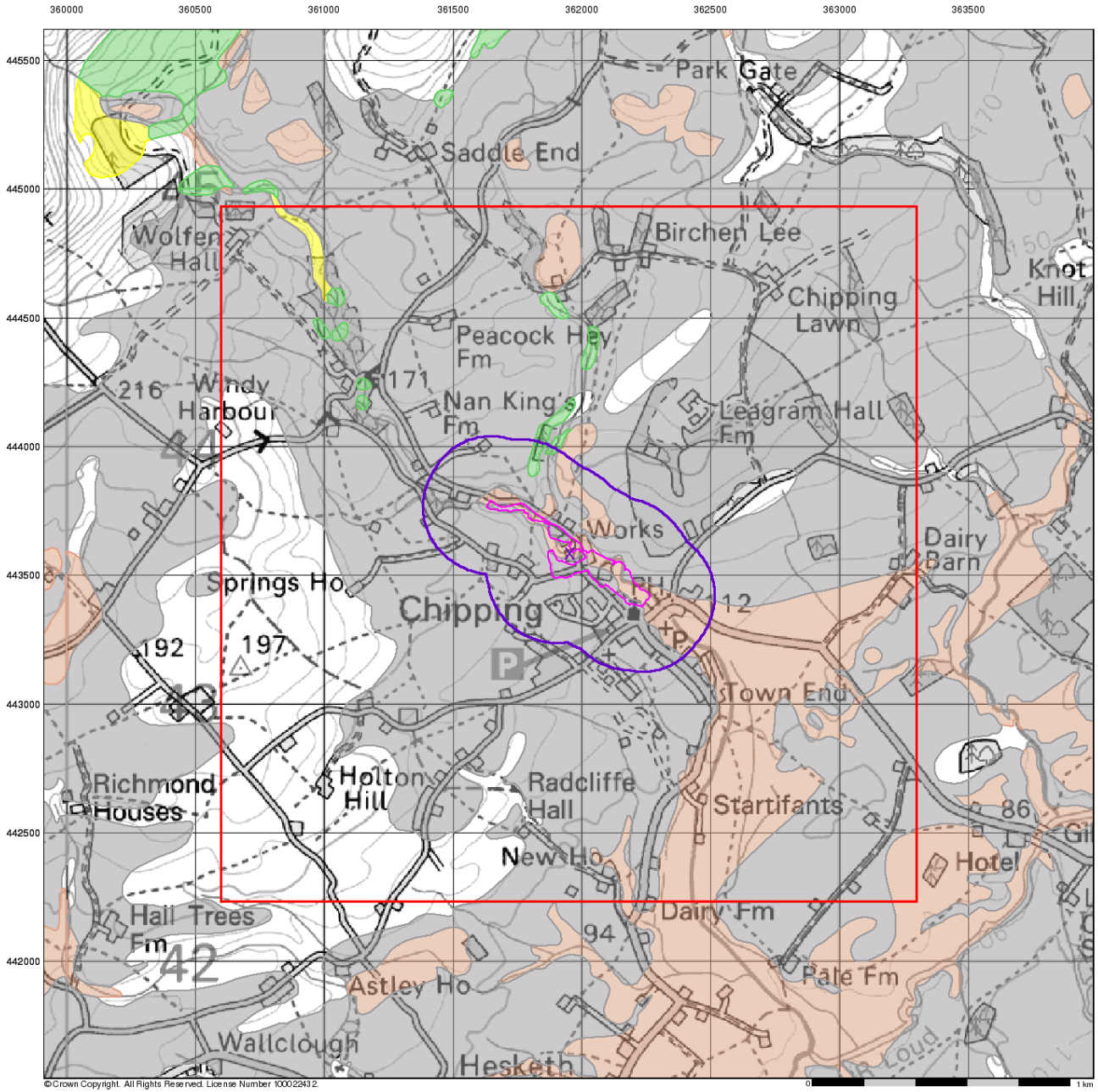

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Superficial Aquifer Designation

General

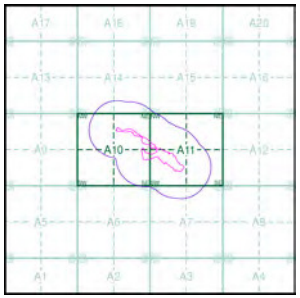
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



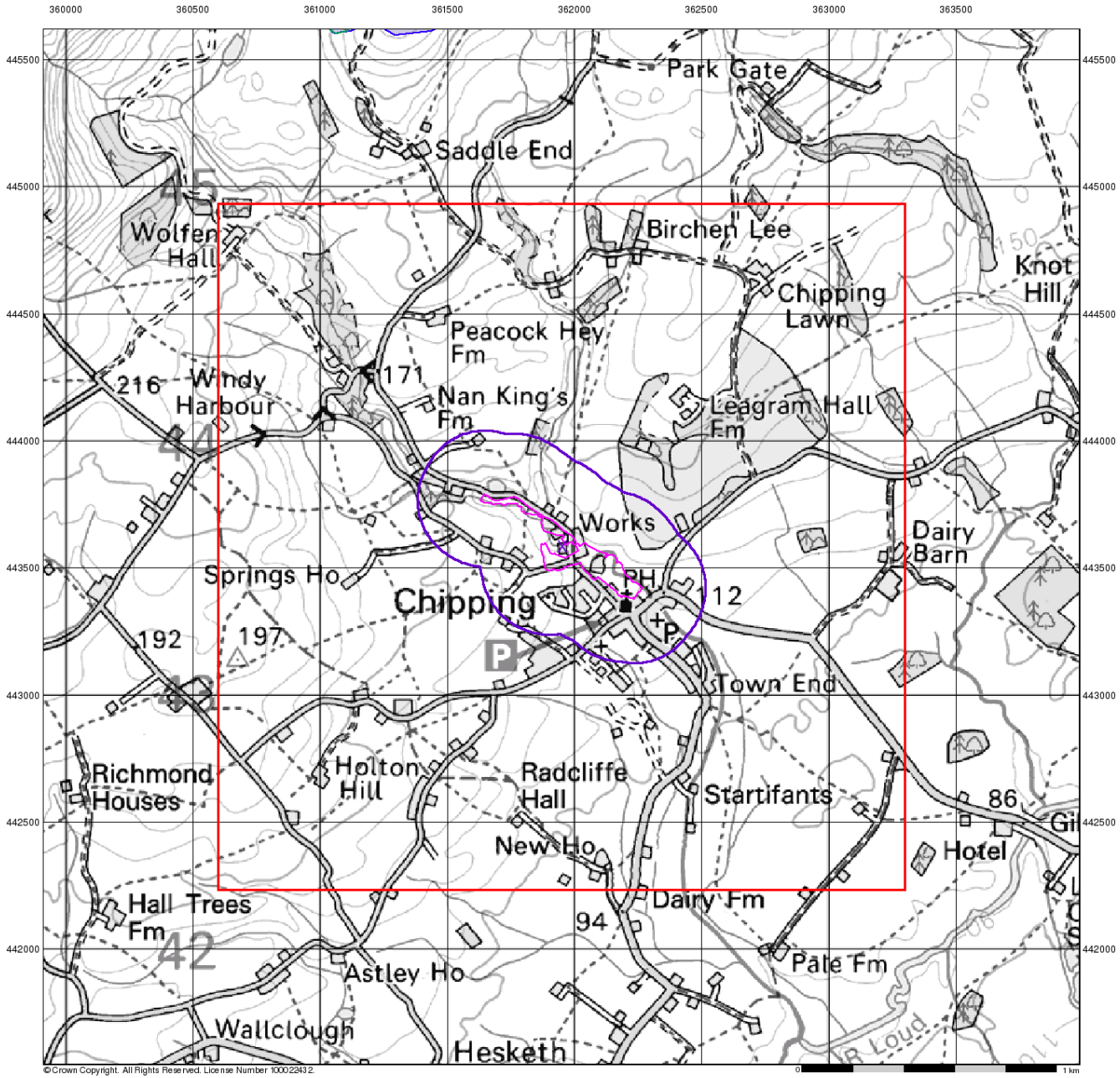
Order Details

Order Number:	45491088_1_1
Customer Ref:	LKC 13 1086
National Grid Reference:	361950, 443590
Slice:	A
Site Area (Ha):	4.4
Search Buffer (m):	250

Site Details

Land at Malt Kiln Lane, Chipping, Preston, PR3 2GP

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



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Source Protection Zones

General

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

Slice | Map ID

Agency and Hydrological

Source Protection Zone I

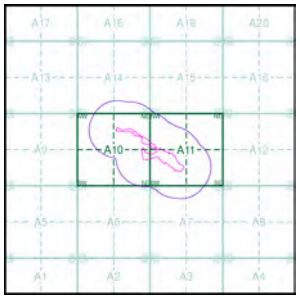
Source Protection Zone II

Source Protection Zone III

Zone of Special Interest

Source Protection Zone Borehole

Site Sensitivity Context Map - Slice A

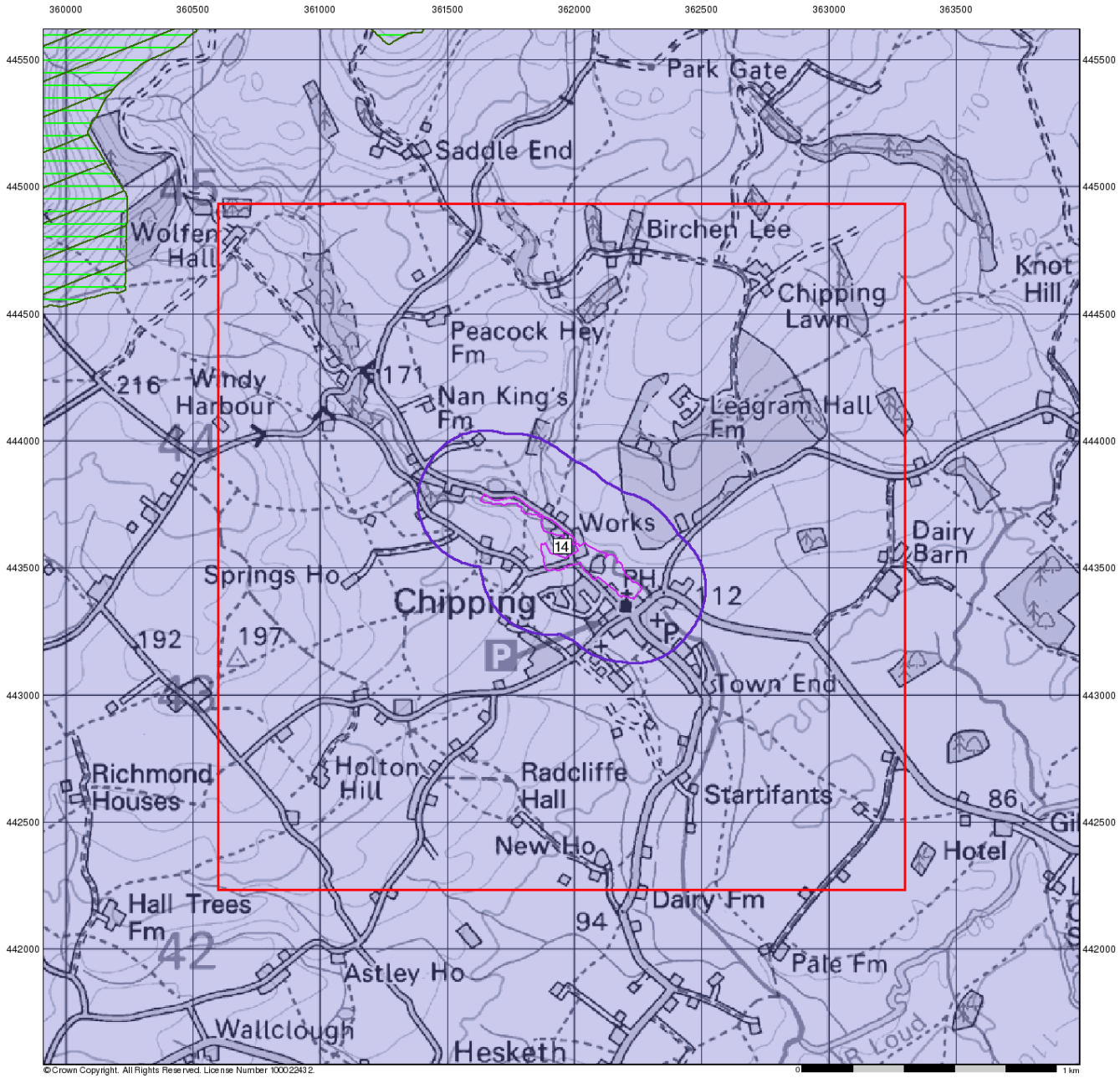


Order Details

Order Number:	45491088_1_1
Customer Ref:	LKC 13 1086
National Grid Reference:	361950, 443590
Slice:	A
Site Area (Ha):	4.4
Search Buffer (m):	250

Site Details

Land at Malt Kiln Lane, Chipping, Preston, PR3 2GP



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Sensitive Land Uses

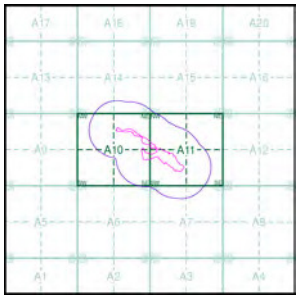
General

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

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice A



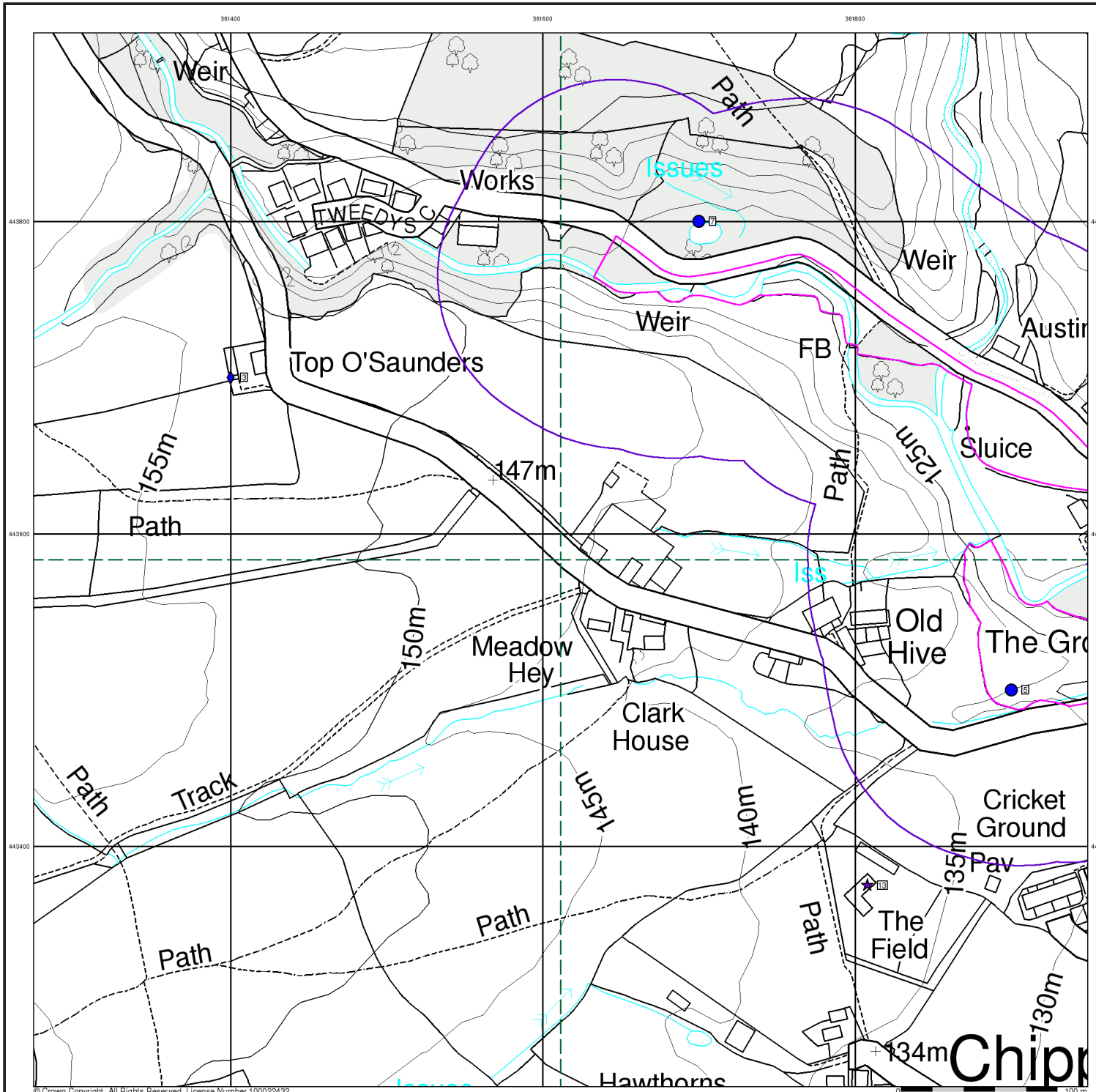
Order Details

Order Number:	45491088_1_1
Customer Ref:	LKC 13 1086
National Grid Reference:	361950, 443590
Slice:	A
Site Area (Ha):	4.4
Search Buffer (m):	250

Site Details

Land at Malt Kiln Lane, Chipping, Preston, PR3 2GP

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



LK CONSULT LIMITED

General

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

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Geological

- BGS Recorded Mineral Site

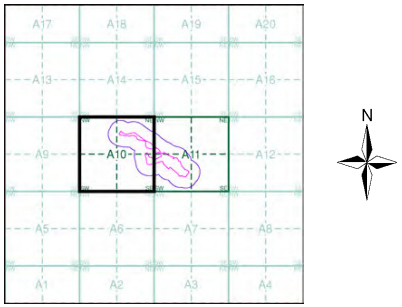
Hazardous Substances

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

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

Site Sensitivity Map - Segment A10



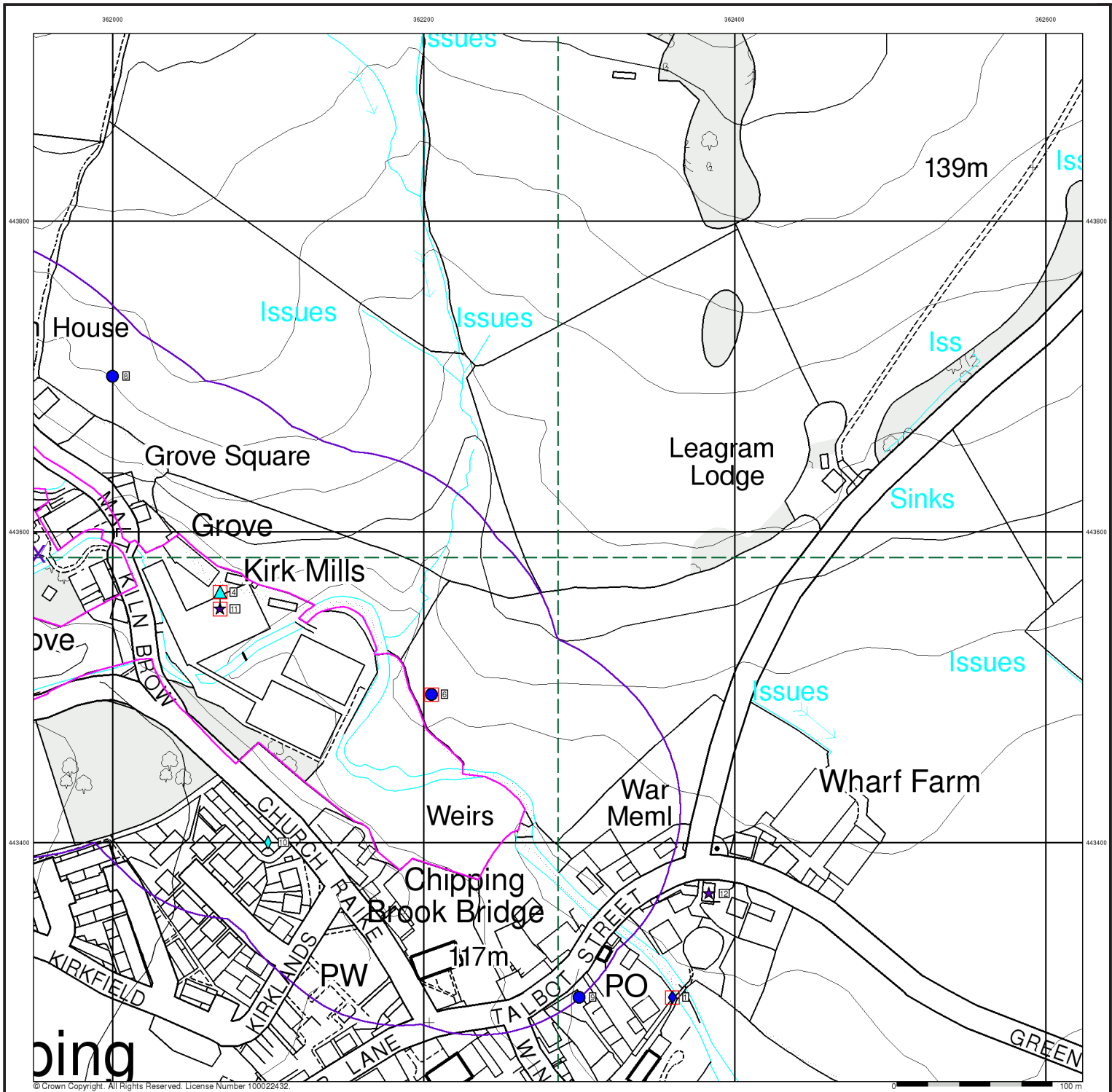
Order Details

Order Number:	45491088_1_1
Customer Ref:	LKC 13 1086
National Grid Reference:	361950, 443590
Slice:	A
Site Area (Ha):	4.4

Site Details

Land at Malt Kiln Lane, Chipping, Preston, PR3 2GP

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



LK CONSULT LIMITED

General

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

Several of Type at Location

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
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- EA Historic Landfill (Polygon)
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- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Geological

- BGS Recorded Mineral Site

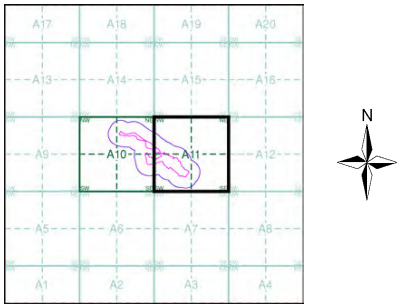
Hazardous Substances

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

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

Site Sensitivity Map - Segment A11



Order Details

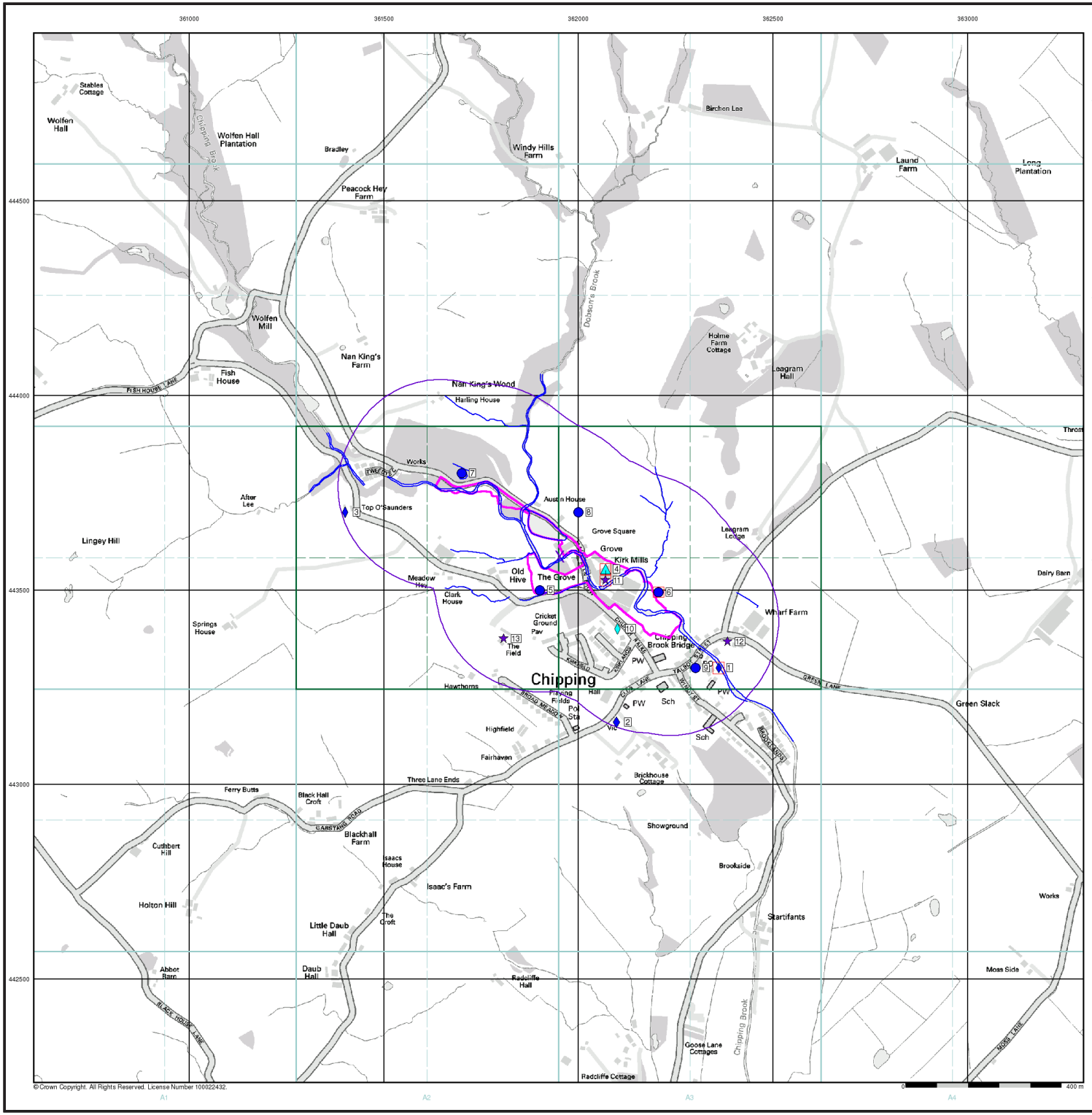
Order Number:	45491088_1_1
Customer Ref:	LKC 13 1086
National Grid Reference:	361950, 443590
Slice:	A
Site Area (Ha):	4.4

Site Details

Land at Malt Kiln Lane, Chipping, Preston, PR3 2GP

Landmark Information Group

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



LK CONSULT LIMITED

General

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

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
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- Prosecution Relating to Controlled Waters
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- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
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- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Geological

- BGS Recorded Mineral Site

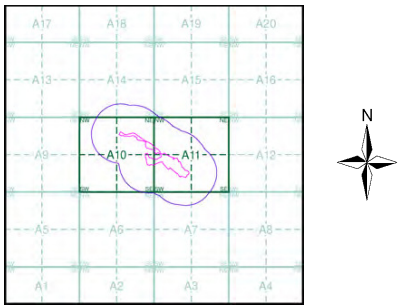
Hazardous Substances

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

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

Site Sensitivity Map - Slice A



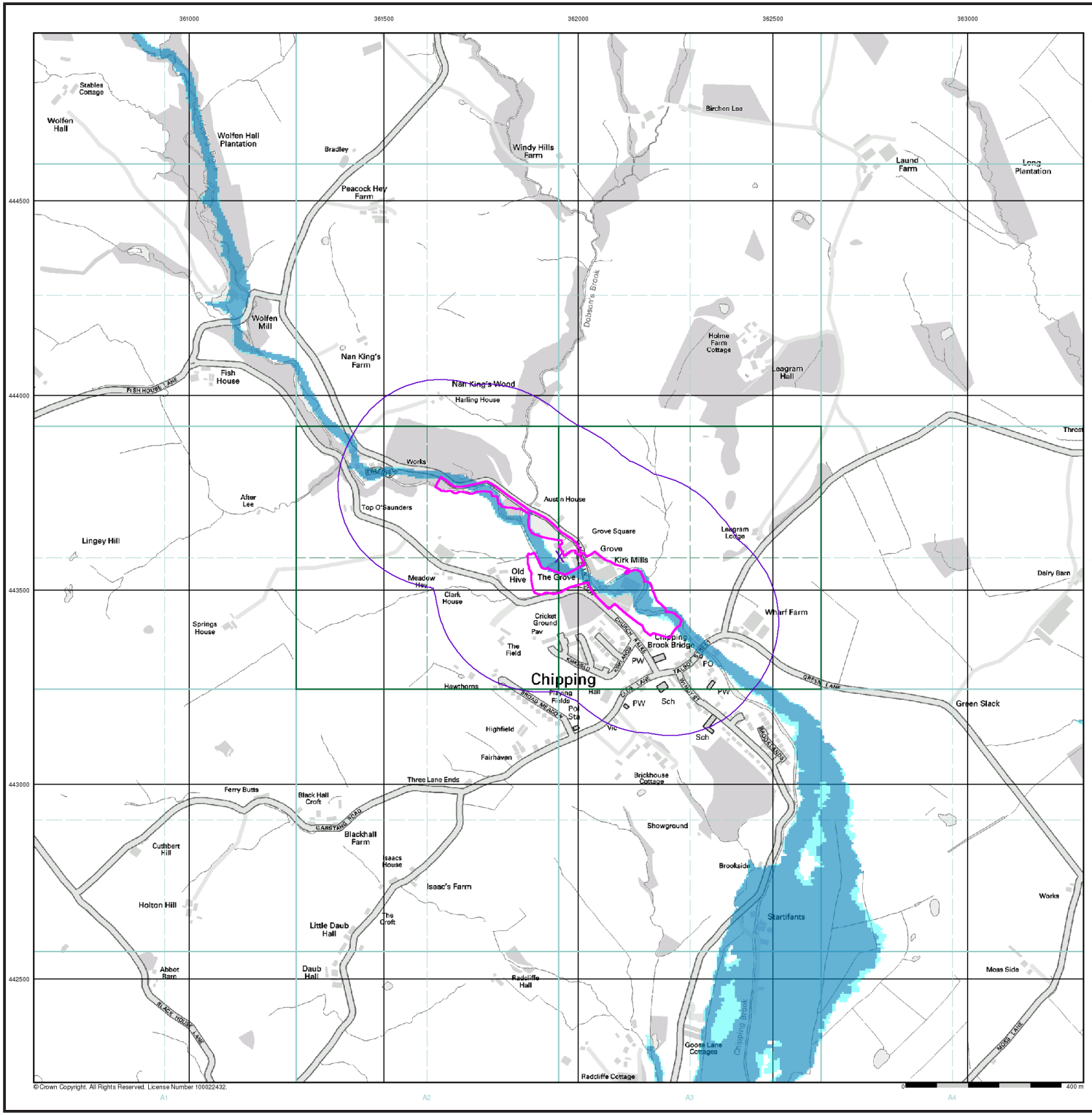
Order Details

Order Number:	45491088_1_1
Customer Ref:	LKC 13 1086
National Grid Reference:	361950, 443590
Slice:	A
Site Area (Ha):	4.4
Search Buffer (m):	250

Site Details

Land at Malt Kiln Lane, Chipping, Preston, PR3 2GP

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



LK CONSULT LIMITED

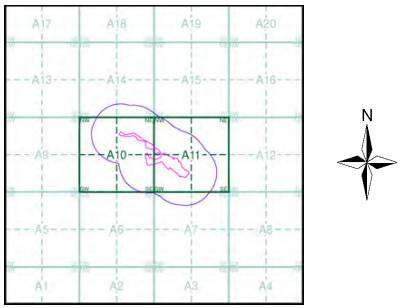
General

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

Agency and Hydrological (Flood)

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

Flood Map - Slice A



Order Details

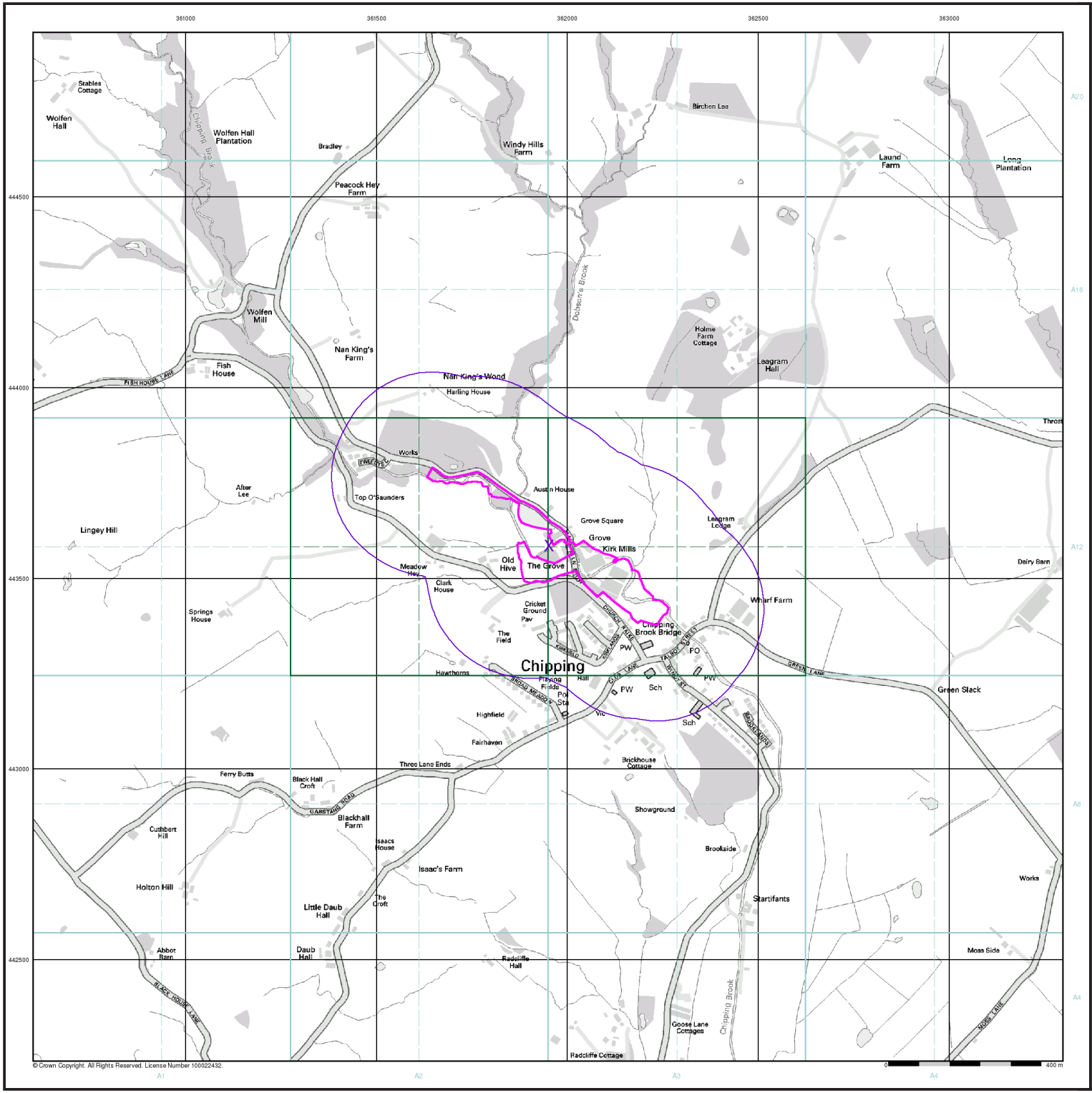
Order Number:	45491088_1_1
Customer Ref:	LKC 13 1086
National Grid Reference:	361950, 443590
Slice:	A
Site Area (Ha):	4.4
Search Buffer (m):	250

Site Details

Land at Malt Kiln Lane, Chipping, Preston, PR3 2GP

Landmark Information Group

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



LK CONSULT LIMITED

General

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

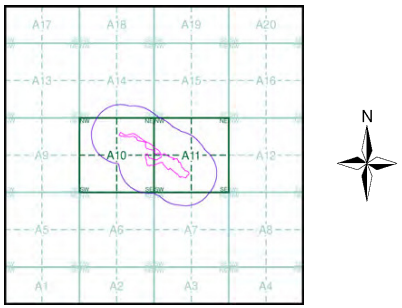
Agency and Hydrological (Boreholes)

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

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

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

Borehole Map - Slice A



Order Details

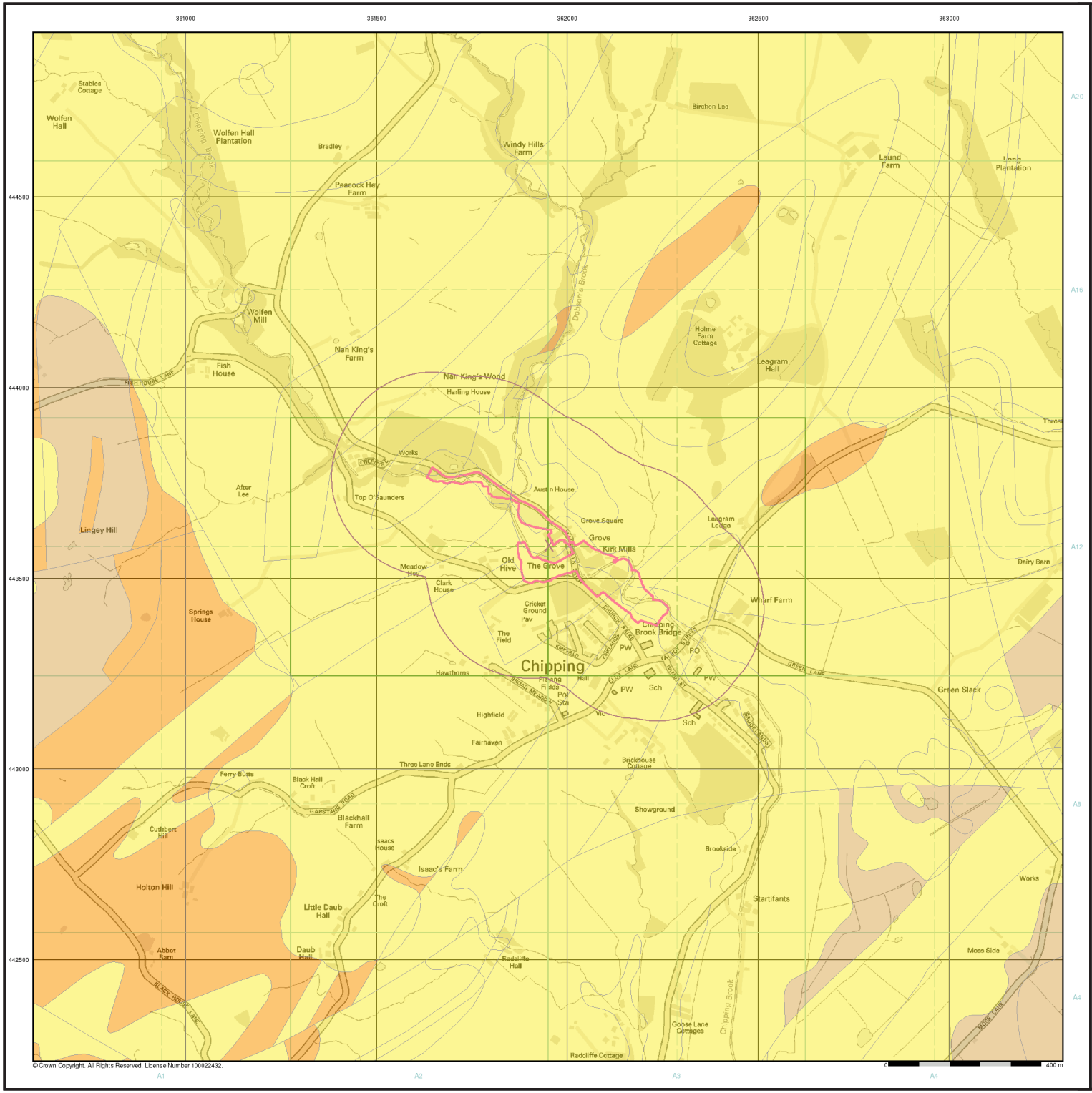
Order Number:	45491088_1_1
Customer Ref:	LKC 13 1086
National Grid Reference:	361950, 443590
Slice:	A
Site Area (Ha):	4.4
Search Buffer (m):	250

Site Details

Land at Malt Kiln Lane, Chipping, Preston, PR3 2GP

Landmark Information Group

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



LK CONSULT LIMITED

General

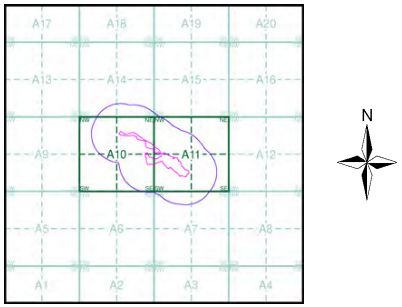
Specified Site | Specified Buffer(s) | Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg

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

Estimated Soil Chemistry Arsenic - Slice A



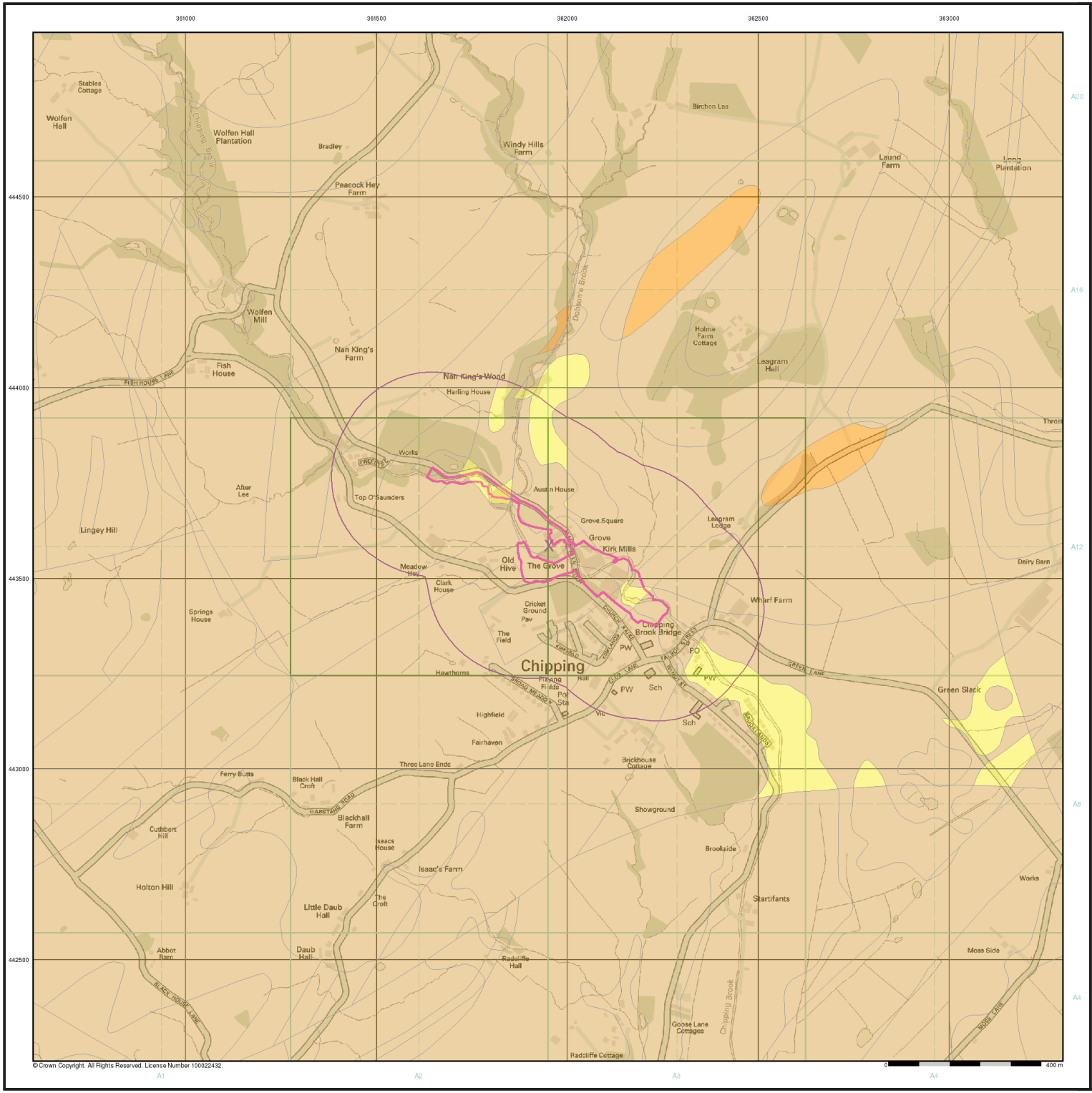
Order Details

Order Details:	45491088_1_1
Customer Ref:	LKC 13 1086
National Grid Reference:	361950, 443590
Slice:	A
Site Area (Ha):	4.4
Search Buffer (m):	250

Site Details

Land at Malt Kiln Lane, Chipping, Preston, PR3 2GP

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



LK CONSULT LIMITED

General

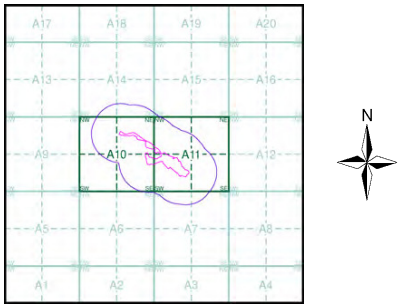
Specified Site | Specified Buffer(s) | Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg

- < 1.8
- 1.8 - 2.2
- 2.2 - 3.0
- > 3.0

Estimated Soil Chemistry Cadmium - Slice A



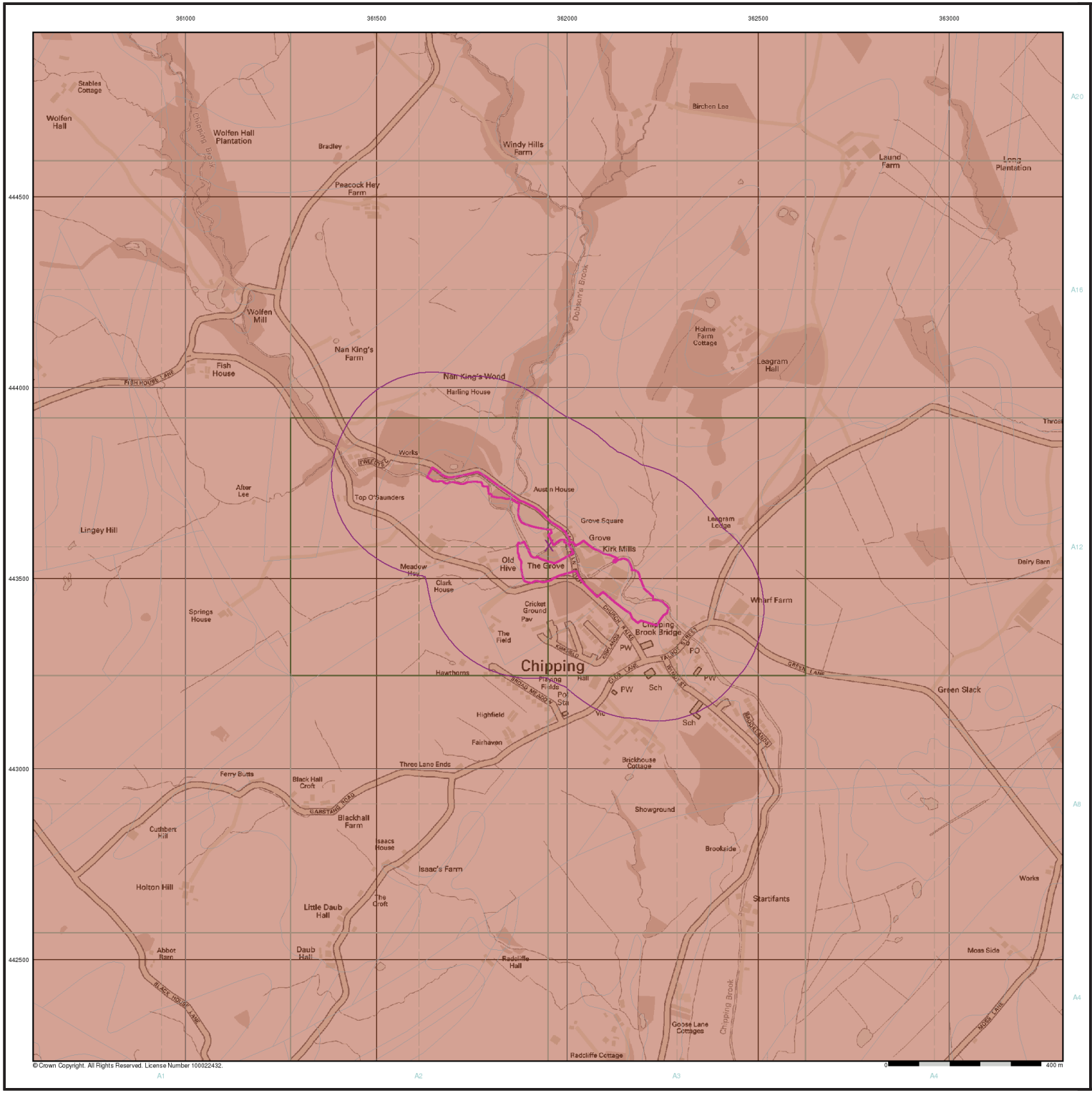
Order Details

Order Details:	45491088_1_1
Customer Ref:	LKC 13 1086
National Grid Reference:	361950, 443590
Slice:	A
Site Area (Ha):	4.4
Search Buffer (m):	250

Site Details

Land at Malt Kiln Lane, Chipping, Preston, PR3 2GP

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



LK CONSULT LIMITED

General

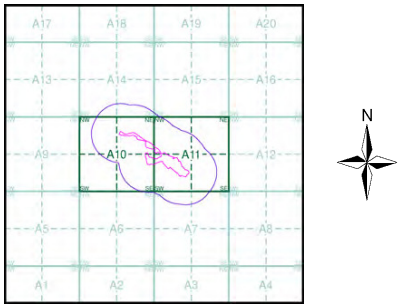
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg

- < 20
- 20 - 40
- 40 - 60
- 60 - 90
- 90 - 120
- 120 - 180
- > 180

Estimated Soil Chemistry Chromium - Slice A



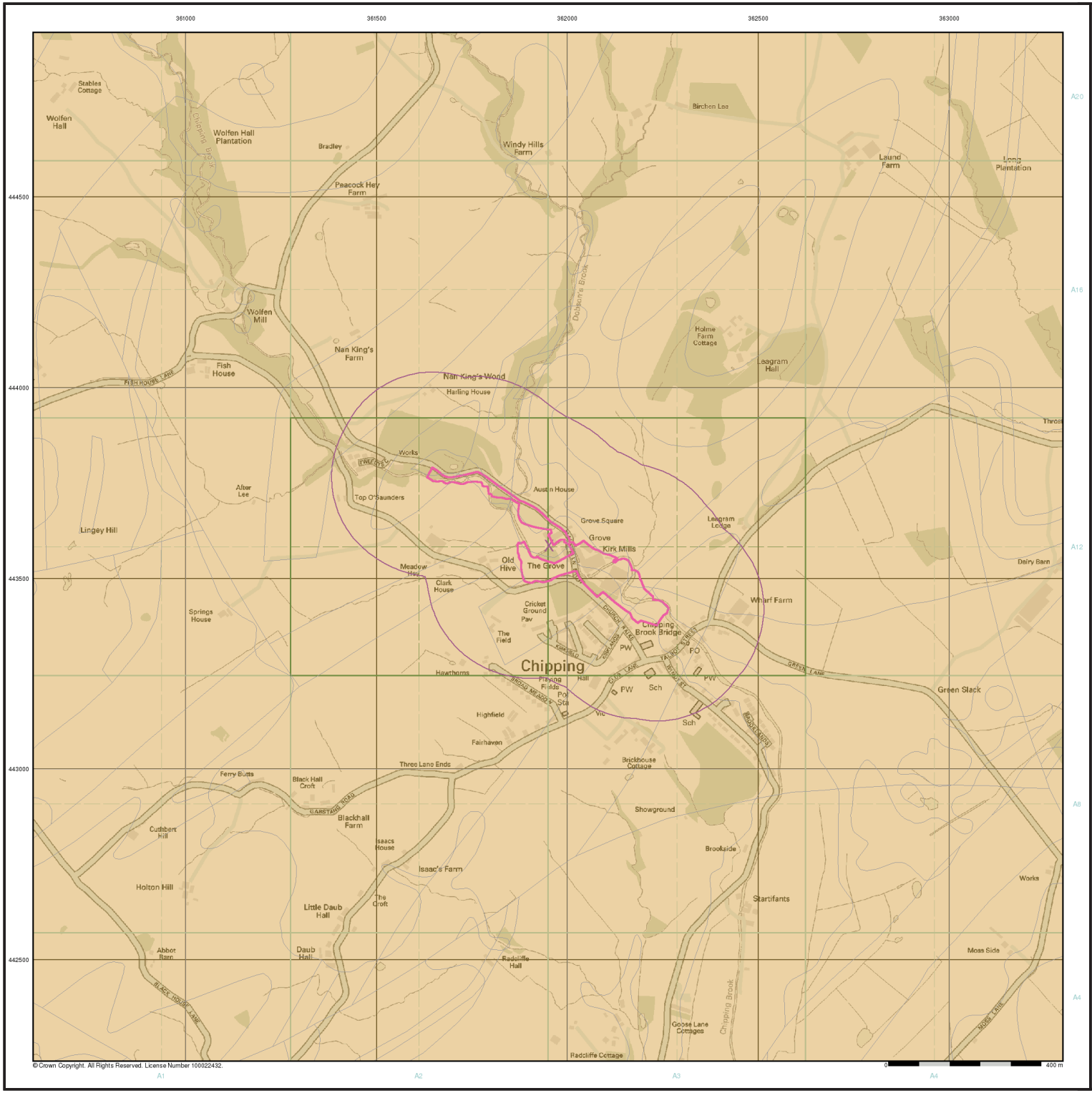
Order Details

Order Details:	45491088_1_1
Customer Ref:	LKC 13 1086
National Grid Reference:	361950, 443590
Slice:	A
Site Area (Ha):	4.4
Search Buffer (m):	250

Site Details

Land at Malt Kiln Lane, Chipping, Preston, PR3 2GP

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



LK CONSULT LIMITED

General

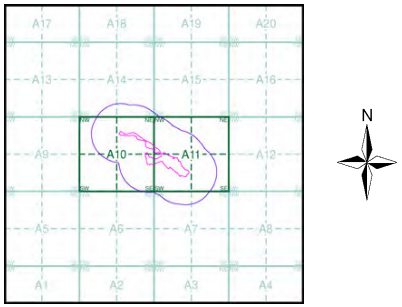
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg

- < 150
- 150 - 300
- 300 - 600
- 600 - 900
- > 900

Estimated Soil Chemistry Lead - Slice A



Order Details

Order Details:	45491088_1_1
Customer Ref:	LKC 13 1086
National Grid Reference:	361950, 443590
Slice:	A
Site Area (Ha):	4.4
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Site Details

Land at Malt Kiln Lane, Chipping, Preston, PR3 2GP

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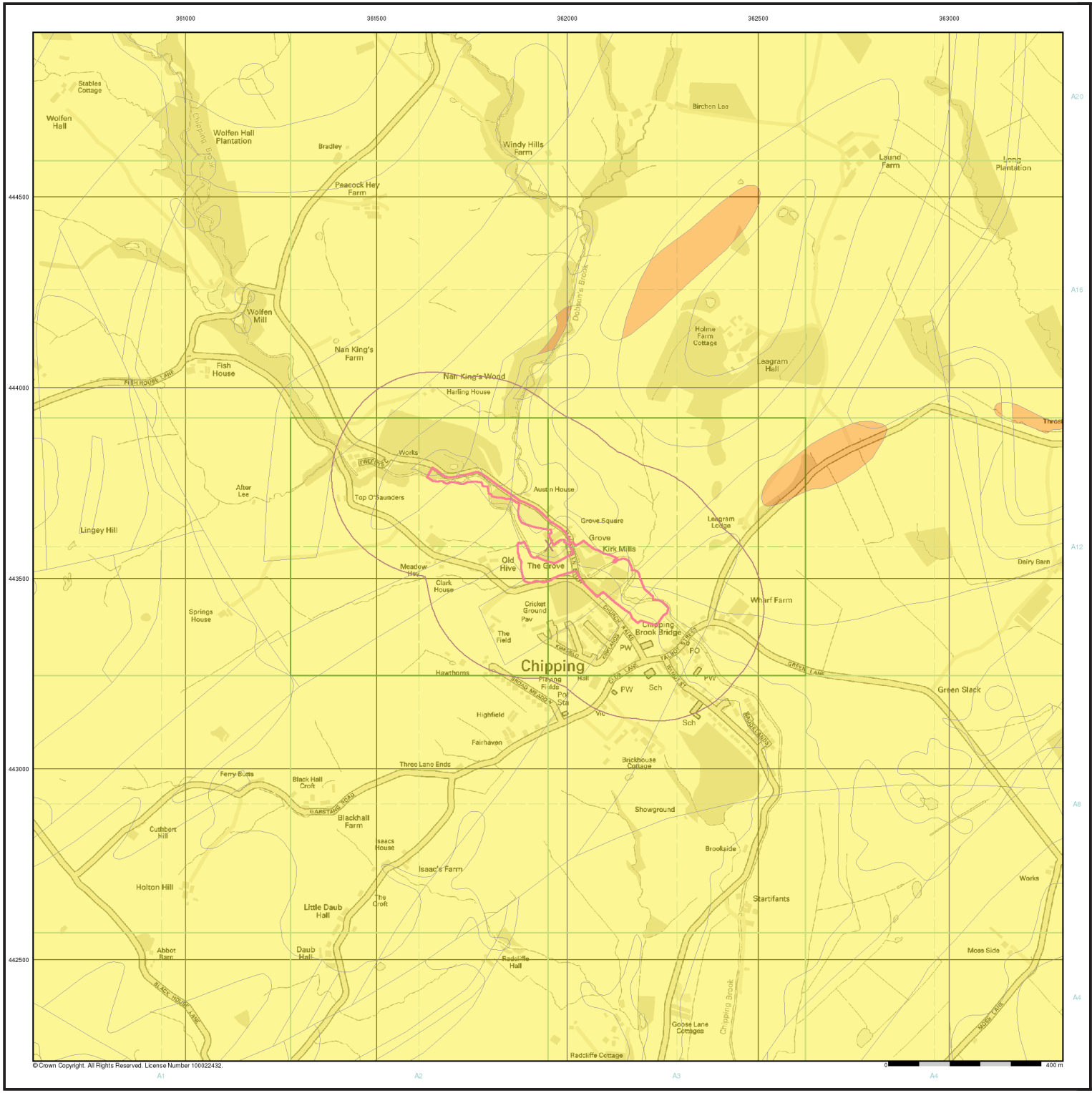


LK CONSULT LIMITED

General

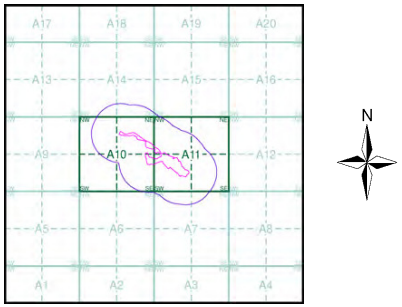
Specified Site | Specified Buffer(s) | Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg

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

Estimated Soil Chemistry Nickel - Slice A



Order Details

Order Details:	45491088_1_1
Customer Ref:	LKC 13 1086
National Grid Reference:	361950, 443590
Slice:	A
Site Area (Ha):	4.4
Search Buffer (m):	250

Site Details

Land at Malt Kiln Lane, Chipping, Preston, PR3 2GP

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

Envirocheck® Report:

Datasheet

Order Details:

Order Number:
45486645_1_1

Customer Reference:
LKC 13 1086a

National Grid Reference:
362610, 443010

Slice:
A

Site Area (Ha):
1.49

Search Buffer (m):
1000

Site Details:

Land off Longridge Road
Chipping
Preston
PR3 2QD

Client Details:

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

Contents

Introduction

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

In the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Natural England Copyright Notice

Ove Arup Copyright Notice

Peter Brett Associates Copyright Notice

Radon Potential dataset Copyright Notice

Report Version v47.0

LK CONSULT LIMITED

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1	2		3	5
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 3				2
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 3	Yes			
Pollution Incidents to Controlled Waters	pg 3		1	3	4
Prosecutions Relating to Authorised Processes					
Prosecutions Relating to Controlled Waters					
Registered Radioactive Substances					
River Quality	pg 5		1		
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 5				1 (*1)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 5	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 5	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 5	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 5	Yes		n/a	n/a
Flooding from Rivers or Sea without Defences	pg 6	Yes		n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Recorded Landfill Sites					
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					

LK CONSULT LIMITED

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 8	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 8	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites					
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
Brine Compensation Area			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 35	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 35		Yes	n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 35	Yes	Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 35	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 35	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 35	Yes	Yes	n/a	n/a
Radon Potential - Radon Affected Areas	pg 36	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures	pg 36	Yes	n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 37		1	1	6
Fuel Station Entries	pg 37		2		

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty	pg 38	1			
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					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**Discharge Consents** Operator: Wolstenholme & Joy Property Type: Sewage Disposal Works - Other Location: Wolstenholme And Joy, Chipping, Lancashire Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 017090210 Permit Version: 1 Effective Date: 1st November 1994 Issued Date: Not Supplied Revocation Date: 1st November 1994 Discharge Type: Discharge Of Other Matter-Surface Water Discharge Environment: Freshwater Stream/River Receiving Water: Chipping Brook **Status: Authorisation revokedRevoked** Positional Accuracy: Located by supplier to within 100m	A13NW (N)	0	1	362600 443100
1	**Discharge Consents** Operator: Wolstenholme & Joy Property Type: Sewage Disposal Works - Other Location: Wolstenholme And Joy, Chipping, Lancashire Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 017190210 Permit Version: 1 Effective Date: 24th October 1986 Issued Date: Not Supplied Revocation Date: 1st July 1991 Discharge Type: Discharge Of Other Matter-Surface Water Discharge Environment: Freshwater Stream/River Receiving Water: Chipping Brook **Status: Authorisation revokedRevoked** Positional Accuracy: Located by supplier to within 100m	A13NW (N)	0	1	362600 443100
2	**Discharge Consents** Operator: United Utilities Water Plc Property Type: Sewerage Network - Sewers - Water Company Location: North St Mary'S Church, Chipping, Lancashire Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 01rib0005 Permit Version: 2 Effective Date: 14th April 2009 Issued Date: 14th April 2009 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: Chipping Brook **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A13NW (NW)	270	1	362360 443300
2	**Discharge Consents** Operator: United Utilities Water Plc Property Type: Sewerage Network - Sewers - Water Company Location: North St Mary'S Church, Chipping, Lancashire Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01RIB0005 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 13th April 2009 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: Chipping Brook **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	270	1	362360 443300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	**Discharge Consents** Operator: The Vicar Property Type: Domestic Property (Single) Location: St. Bartholomews Vicarage Garstang Road, Chipping, Preston, Lancashire, Pr3 2qh Authority: Environment Agency, North West Region Catchment Area: Loud Reference: 01361 Permit Version: 1 Effective Date: 30th December 1955 Issued Date: 30th December 1955 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Trib Of Chipping Brook **Status:** **Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 10m	A12NE (W)	458	1	362097 443161
4	**Discharge Consents** Operator: United Utilities Water Plc Property Type: Sewage Disposal Works - Water Company Location: Chipping Stw, Longridge Road, Chipping, Lancashire Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 017160030 Permit Version: 4 Effective Date: 1st January 2010 Issued Date: 14th October 2008 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Chipping Brook **Status:** **Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A8NW (S)	548	1	362440 442400
4	**Discharge Consents** Operator: United Utilities Water Plc Property Type: Sewage Disposal Works - Water Company Location: Chipping Stw, Longridge Road, Chipping, Lancashire Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 017160030 Permit Version: 3 Effective Date: 1st May 2001 Issued Date: 1st May 2001 Revocation Date: 31st December 2009 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Chipping Brook **Status:** **Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A8NW (S)	548	1	362440 442400
4	**Discharge Consents** Operator: United Utilities Water Plc Property Type: Sewage Disposal Works - Water Company Location: Chipping Stw, Longridge Road, Chipping, Lancashire Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 017160030 Permit Version: 1 Effective Date: 19th October 1979 Issued Date: Not Supplied Revocation Date: 30th January 1985 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Chipping Brook **Status:** **Authorisation revokedRevoked** Positional Accuracy: Located by supplier to within 10m	A8NW (S)	548	1	362440 442400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	**Discharge Consents** Operator: United Utilities Water Plc Property Type: Sewage Disposal Works - Water Company Location: Chipping Stw, Longridge Road, Chipping, Lancashire Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 017160030 Permit Version: 2 Effective Date: 31st January 1985 Issued Date: Not Supplied Revocation Date: 30th April 2001 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Chipping Brook **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 100m	A8NW (S)	548	1	362440 442400
5	**Discharge Consents** Operator: Dr D & Mrs C Lynch Property Type: Domestic Property (Single) Location: Pale Farm Barn Pale Farm, Moss Lane, Chipping, Lancashire Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 017190607 Permit Version: 1 Effective Date: 10th August 1998 Issued Date: 10th August 1998 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Unnamed Trib Of River Loud **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 100m	A3NE (S)	913	1	362750 442000
6	**Local Authority Pollution Prevention and Controls** Name: H J Berry & Sons Ltd Location: Kirk Mills, Chipping, PRESTON, Lancashire, PR3 2RA Authority: Ribble Valley Borough Council, Environmental Health Department Permit Reference: Rvbc/Ppc/15/05 Dated: 29th June 1994 Process Type: Local Authority Pollution Prevention and Control Description: PG6/33 Wood coating **Status: Permitted** Positional Accuracy: Automatically positioned to the address	A17SE (NW)	653	2	362069 443550
6	**Local Authority Pollution Prevention and Controls** Name: H J Berry & Sons Ltd Location: Kirk Mills, Chipping, PRESTON, Lancashire, PR3 2RA Authority: Ribble Valley Borough Council, Environmental Health Department Permit Reference: Rvbc/Ppc/14/04 Dated: 22nd June 1994 Process Type: Local Authority Pollution Prevention and Control Description: PG6/2 Manufacture of timber and wood-based products **Status: Permitted** Positional Accuracy: Automatically positioned to the address	A17SE (NW)	653	2	362069 443550
	Nearest Surface Water Feature	A13NW (W)	0	-	362559 443019
7	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Other Oil Note: Chipping Brook; Oil/Wood Chips Incident Date: 19th January 1991 Incident Reference: 91340008 Catchment Area: Hodder Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	103	1	362500 443200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	**Pollution Incidents to Controlled Waters** Property Type: Domestic/Residential Location: Tributary Of River Loud At , CHIPPING Authority: Environment Agency, North West Region Pollutant: Oils - Kerosene Fuel Oil Note: Oil; Tributary River Loud; Oil Incident Date: 2nd December 1997 Incident Reference: 97340111 Catchment Area: Hodder Receiving Water: Freshwater Stream/River Cause of Incident: Vandalism Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A13SW (W)	258	1	362300 443000
9	**Pollution Incidents to Controlled Waters** Property Type: Domestic & Residential: Private Dwellings Location: Main Street by The Talbot Hotel, Lancashire Authority: Environment Agency, North West Region Pollutant: Organic Chemicals : Fuel Oils (domestic) Note: Not Supplied Incident Date: 8th July 1999 Incident Reference: 29864 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Structural Failure : Steel Tank / Vessel / Drum - Above Ground Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	315	1	362300 443300
10	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Sewage Treatment Works Location: Chipping Waste Water Treatment Works , CHIPPING Authority: Environment Agency, North West Region Pollutant: Other Sewage Note: Tributary Of River Lord; Sewage Incident Date: 4th February 1997 Incident Reference: 97340009 Catchment Area: Hodder Receiving Water: Freshwater Stream/River Cause of Incident: Poor/Inadequate Maintenance Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A8NW (S)	340	1	362500 442600
11	**Pollution Incidents to Controlled Waters** Property Type: Private Sewage (Non-PLC): Water Distribution System Location: Discharge At Chipping By Nww Authority: Environment Agency, North West Region Pollutant: Raw Water Note: Not Supplied Incident Date: 23rd April 1998 Incident Reference: CE980355 Catchment Area: Ribble - Non-Tidal Receiving Water: Freshwater Stream/River Cause of Incident: Inadequate Design/Capacity Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17SE (NW)	518	1	362205 443495
11	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Lancashire Authority: Environment Agency, North West Region Pollutant: Not Given Note: Chipping Brook Incident Date: 4th May 1991 Incident Reference: 91340039 Catchment Area: Hodder Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17SE (NW)	525	1	362200 443500
12	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Lancashire Authority: Environment Agency, North West Region Pollutant: Unknown Note: Chipping Brook; No Pollution Found Incident Date: 29th April 1996 Incident Reference: 96340033 Catchment Area: Hodder Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17SW (NW)	759	1	361900 443500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	**Pollution Incidents to Controlled Waters** Property Type: Manufacturing: Wood Products / Timber Treatment Location: Chainworks, Chipping Authority: Environment Agency, North West Region Pollutant: Organic Chemicals : Hydraulic Oils / Fluids Note: Not Supplied Incident Date: 14th January 1999 Incident Reference: 1609 Catchment Area: Hodder Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Approximate location provided by supplier	A17NE (NW)	807	1	362000 443700
	River Quality Name: Chipping Bk GQA Grade: River Quality A Reach: Qsl Dobsons Bk To Loud Estimated Distance (km): 2.8 Flow Rate: Flow less than 0.62 cumecs Flow Type: River Year: 2000	A13SW (W)	29	1	362524 443014
14	**Water Abstractions** Operator: H J Berry & Sons Ltd Licence Number: 2671317010 Permit Version: Not Supplied Location: Chipping, PRESTON, Lancashire Authority: Environment Agency, North West Region Abstraction: Private Water Supply (Pisciculture) Abstraction Type: Not Supplied Source: Unknown Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Chipping Brook Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A17SE (NW)	537	1	362100 443400
	Water Abstractions Operator: Mr R Wallbank & Mrs E E Wallbank Licence Number: 2671317007 Permit Version: 100 Location: Spring At Blackhall, Chipping. Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 5 Yearly Rate (m3): 1136 Details: Land At Ferrybutts, Chipping. Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 10th October 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A11SW (W)	1457	1	361100 443000
	Groundwater Vulnerability Soil Classification: Soils of Low Leaching Potential - Soils in which pollutants are unlikely to penetrate the soil layer because water movement is largely horizontal or they have large ability to attenuate diffuse pollutants. Lateral flow from these soils contribute to groundwater recharge elsewhere in the catchment Map Sheet: Sheet 10 Central Lancashire Scale: 1:100,000	A13SW (NW)	0	1	362605 443014
	Drift Deposits None				
	Bedrock Aquifer Designations Aquifer Desination: Secondary Aquifer - A	A13SW (NW)	0	3	362605 443014
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SW (NW)	0	3	362605 443014
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (NW)	0	1	362605 443014

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (NW)	0	1	362605 443014
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Ribble Valley Borough Council - Had landfill data but passed it to the relevant environment agency		0	2	362605 443014
	Local Authority Landfill Coverage Name: Lancashire County Council - Had landfill data but passed it to the relevant environment agency		0	6	362605 443014

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Tournaisian and Visean (Carboniferous Limestone Series)	A13SW (NW)	0	3	362605 443014
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (S)	0	4	362610 442941
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: 1.8 - 2.2 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (NW)	0	4	362605 443014
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: 1.8 - 2.2 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (S)	0	4	362605 443000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (E)	10	4	362659 443030
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (E)	30	4	362678 443000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (W)	32	4	362524 443000

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 Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (W)	34	4	362524 443003
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (SE)	52	4	362709 442948
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (SW)	76	4	362493 442922
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (SE)	87	4	362749 442950
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: 1.8 - 2.2 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (E)	99	4	362752 442972
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: 1.8 - 2.2 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (E)	115	4	362764 443000

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 Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (E)	161	4	362811 443000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (E)	182	4	362834 442956
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (E)	215	4	362864 442999
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (E)	215	4	362864 443000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (E)	216	4	362872 442946
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (E)	228	4	362881 442958

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 Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SE (N)	253	4	362620 443379
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12NE (NW)	288	4	362263 443175
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (NW)	288	4	362305 443258
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SW (E)	307	4	362962 442958
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (NW)	309	4	362351 443346
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SW (E)	341	4	363000 442958

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 Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SW (E)	345	4	363000 443000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SW (E)	345	4	363007 442907
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SW (E)	345	4	363000 442959
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: 1.8 - 2.2 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14NW (E)	347	4	362982 443131
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (SE)	348	4	362943 442708
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SW (SE)	348	4	362954 442721

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 Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SW (NW)	350	4	362385 443418
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SW (E)	350	4	363000 443014
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14NW (E)	352	4	363000 443056
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SW (E)	355	4	363010 442959
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: 1.8 - 2.2 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14NW (E)	360	4	363000 443114
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14NW (E)	364	4	363000 443132

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 Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SW (SE)	368	4	363000 442770
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SW (SE)	377	4	363029 442798
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12SE (W)	381	4	362177 443000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: 1.8 - 2.2 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SW (E)	407	4	363063 442958
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: 1.8 - 2.2 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SW (E)	435	4	363085 443000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SW (E)	452	4	363110 442877

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 Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14NW (E)	468	4	363094 443180
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: 1.8 - 2.2 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A17SE (NW)	490	4	362181 443432
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A17SE (NW)	492	4	362129 443370
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A9NW (SE)	503	4	363065 442608
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A9NW (SE)	505	4	363000 442536
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SW (E)	506	4	363163 442953

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 Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A19SW (NE)	522	4	363000 443453
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SW (E)	541	4	363192 443000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14NW (E)	550	4	363174 443202
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A17SE (NW)	551	4	362158 443497
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12SE (W)	552	4	362000 443014
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A17SE (NW)	552	4	362154 443494

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 Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A17SE (NW)	554	4	362137 443477
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14NW (E)	556	4	363195 443139
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12SE (W)	558	4	362000 443000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14NW (NE)	558	4	363144 443300
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12NE (W)	559	4	362000 443194
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14NW (E)	564	4	363209 443097

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 Concentration: 25 - 35 mg/kg Cadmium Concentration: 2.2 - 3.0 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A18SW (N)	566	4	362541 443691
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14NW (E)	568	4	363215 443076
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14NW (E)	580	4	363229 443040
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SW (E)	590	4	363240 443013
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SW (E)	593	4	363245 443000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12SE (SW)	596	4	362000 442759

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 Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SW (E)	598	4	363253 442975
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A17SE (NW)	612	4	362000 443374
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SW (E)	617	4	363268 443000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A19SW (NE)	619	4	363101 443480
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14NW (E)	625	4	363274 443056
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SW (SE)	635	4	363254 442688

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 Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14NE (E)	658	4	363300 443124
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14NE (E)	660	4	363309 443056
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8SW (S)	663	4	362524 442259
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A19SW (NE)	684	4	363128 443557
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14NE (E)	684	4	363326 443123
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A17SE (NW)	690	4	362126 443653

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: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12SW (W)	692	4	361866 443000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SE (E)	702	4	363349 442783
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A9NW (SE)	708	4	363209 442462
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14NE (E)	721	4	363364 443123
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SE (E)	724	4	363369 442770
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A17SE (NW)	725	4	362000 443582

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 Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SE (E)	726	4	363368 442755
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14NE (E)	742	4	363349 443282
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NW (SW)	749	4	361872 442665
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18NW (N)	755	4	362367 443848
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A19NW (NE)	767	4	363082 443717
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SE (E)	776	4	363429 443000

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 Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A19SW (NE)	778	4	363172 443646
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SE (E)	779	4	363408 442696
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A17SE (NW)	780	4	362000 443662
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14NE (E)	781	4	363407 443223
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14NE (E)	781	4	363407 443223
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NW (SW)	784	4	361843 442644

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: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12SW (W)	785	4	361782 442872
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A9SW (SE)	787	4	363000 442199
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12SW (W)	789	4	361776 442882
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A18NE (N)	793	4	362786 443896
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: 1.8 - 2.2 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A17SE (NW)	795	4	362000 443682
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18NE (N)	796	4	362750 443907

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 Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A19SW (NE)	807	4	363192 443667
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14NE (E)	808	4	363428 443247
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A17NE (NW)	812	4	362003 443709
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NW (SW)	822	4	361844 442554
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NW (SW)	824	4	361847 442546
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A9NE (SE)	824	4	363440 442648

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 Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A9NE (SE)	826	4	363442 442646
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14NE (E)	829	4	363469 443150
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8SE (S)	840	4	362665 442068
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NW (SW)	844	4	361834 442527
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NW (SW)	844	4	361817 442559
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A9SW (SE)	845	4	363042 442155

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 Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A9SW (SE)	854	4	363000 442126
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: 1.8 - 2.2 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A17NE (NW)	867	4	362000 443779
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SE (E)	868	4	363526 442940
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18NW (N)	873	4	362569 444000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SE (E)	873	4	363527 443000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18NW (N)	873	4	362605 444000

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: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NW (SW)	873	4	361801 442528
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12SW (W)	875	4	361704 442788
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NW (SW)	878	4	361759 442600
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18NE (N)	880	4	362706 444000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18NE (N)	889	4	362760 444000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SE (E)	893	4	363550 442956

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 Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A17NW (NW)	900	4	361897 443729
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A17SW (NW)	907	4	361836 443668
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A3NW (S)	908	4	362596 442000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A3NW (S)	909	4	362605 442000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A3NE (S)	912	4	362742 442000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: 1.8 - 2.2 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A17SW (NW)	915	4	361845 443691

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: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A17NE (NW)	917	4	362000 443843
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A19NW (NE)	921	4	363000 443953
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SE (E)	923	4	363577 443000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A19SE (NE)	926	4	363497 443412
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A23SW (N)	927	4	362401 444034
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NW (SW)	928	4	361781 442454

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: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NW (SW)	930	4	361768 442471
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12SW (W)	930	4	361660 442733
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A3NE (S)	935	4	362880 442000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NW (SW)	935	4	361782 442440
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A19NW (N)	943	4	362995 443980
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A19NW (N)	960	4	362991 444000

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 Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A9NE (SE)	963	4	363534 442507
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A19NW (NE)	963	4	363132 443924
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A19NW (NE)	964	4	363138 443921
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A19NW (N)	964	4	363000 444000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A4NW (S)	970	4	363000 442000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A15SW (E)	970	4	363625 443000

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: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A3NW (S)	970	4	362489 441953
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A15SW (E)	970	4	363624 443001
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A19NW (NE)	971	4	363167 443910
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A3NW (S)	981	4	362272 442000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7SW (SW)	986	4	361897 442226
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A19SE (NE)	989	4	363544 443461

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: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NW (W)	992	4	361612 442671
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A15SW (E)	994	4	363649 442998
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A15SW (E)	995	4	363649 443000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A19NW (NE)	996	4	363136 443961
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A10NW (E)	999	4	363631 442678
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A15NW (E)	999	4	363652 443018
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	3	362605 443014
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	3	362605 443014
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	32	3	362525 443003
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	3	362605 443014
	Potential for Compressible Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	11	3	362660 443030
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	32	3	362525 443003
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	87	3	362753 442972
	Potential for Compressible Ground Stability Hazards Hazard Potential: High Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	215	3	362865 443000
	Potential for Compressible Ground Stability Hazards Hazard Potential: High Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	217	3	362873 442947
	Potential for Ground Dissolution Stability Hazards No Hazard				
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	3	362605 443014
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	3	362605 443014
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	11	3	362660 443030
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	87	3	362753 442972
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	3	362605 443014
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	87	3	362753 442972
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	3	362601 443001
	Radon Potential - Radon Protection Measures Protection Measure: Full radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	3	362605 443014
	Radon Potential - Radon Protection Measures Protection Measure: Basic radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	0	3	362626 442926

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Radon Potential - Radon Affected Areas Affected Area: The property is in a radon affected area, as between 1 and 3% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	3	362601 443001
	Radon Potential - Radon Affected Areas Affected Area: The property is in a radon affected area, as between 10 and 30% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	3	362605 443014
	Radon Potential - Radon Affected Areas Affected Area: The property is in a radon affected area, as between 3 and 5% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	0	3	362626 442926

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	**Contemporary Trade Directory Entries** Name: Preston'S Of Chipping Ltd Location: 34, Longridge Road, Chipping, Preston, PR3 2QD Classification: Road Haulage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NW (W)	89	-	362472 443049
16	**Contemporary Trade Directory Entries** Name: Chipping Garage Location: Talbot Street, Chipping, Preston, PR3 2QE Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SW (NW)	307	-	362384 443367
17	**Contemporary Trade Directory Entries** Name: H J Berry & Son Ltd Location: Kirk Mills, Chipping, Preston, PR3 2RA Classification: Furniture Manufacturers - Home & Office **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17SE (NW)	653	-	362069 443550
17	**Contemporary Trade Directory Entries** Name: H J Berry & Sons Ltd Location: Kirk Mills, Chipping, PRESTON, PR3 2RA Classification: Furniture Manufacturers - Home & Office **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17SE (NW)	653	-	362069 443550
17	**Contemporary Trade Directory Entries** Name: H J Berry & Sons Ltd Location: Kirk Mills, Chipping, Preston, Lancashire, PR3 2RA Classification: Furniture Manufacturers - Home & Office **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17SE (NW)	653	-	362069 443550
17	**Contemporary Trade Directory Entries** Name: H J Berry & Sons Ltd Location: Kirk Mills, Chipping, Preston, PR3 2RA Classification: Furniture Manufacturers - Home & Office **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17SE (NW)	653	-	362069 443550
18	**Contemporary Trade Directory Entries** Name: Leagram Organic Dairy Location: Moss La, Chipping, Preston, Lancashire, PR3 2TR Classification: Cheese Makers & Suppliers **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A8SE (S)	781	-	362932 442177
19	**Contemporary Trade Directory Entries** Name: First Call Fire Protection Services Location: The Field, Old Hive, Chipping, Preston, PR3 2QQ Classification: Firefighting Equipment **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17SW (NW)	790	-	361808 443375
20	**Fuel Station Entries** Name: Dean Garage Location: Longbridge Road, Broughton, PRESTON, Lancashire, PR2 Brand: Obsolete Premises Type: Not Applicable **Status: Obsolete** Positional Accuracy: Manually positioned to the road within the address or location	A13SW (SW)	31	-	362528 442982
21	**Fuel Station Entries** Name: Chipping Garage Location: Talbot Street, Chipping, PRESTON, Lancashire, PR3 2QE Brand: OBSOLETE Premises Type: Not Applicable **Status: Obsolete** Positional Accuracy: Approximate location provided by supplier	A13NW (N)	221	-	362512 443333

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
22	**Areas of Outstanding Natural Beauty** Name: Forest Of Bowland Multiple Areas: Y Total Area (m2): 805733322.62 Designation Date: 29th February 1964 Source: Natural England	A13SW (NW)	0	5	362605 443014

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Ribble Valley Borough Council - Environmental Health Department	February 2013	Annual Rolling Update
Preston City Council - Environmental Health Department	March 2013	Annual Rolling Update
Wyre Borough Council - Environmental Health Department	October 2012	Annual Rolling Update
Discharge Consents		
Environment Agency - North West Region	January 2013	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - North West Region	March 2013	Quarterly
Integrated Pollution Controls		
Environment Agency - North West Region	October 2008	Not Applicable
Integrated Pollution Prevention And Control		
Environment Agency - North West Region	January 2013	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Wyre Borough Council - Environmental Health Department	April 2012	Annual Rolling Update
Ribble Valley Borough Council - Environmental Health Department	November 2012	Annual Rolling Update
Preston City Council - Environmental Health Department	October 2012	Annual Rolling Update
Local Authority Pollution Prevention and Controls		
Wyre Borough Council - Environmental Health Department	April 2012	Annual Rolling Update
Ribble Valley Borough Council - Environmental Health Department	November 2012	Annual Rolling Update
Preston City Council - Environmental Health Department	October 2012	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
Wyre Borough Council - Environmental Health Department	April 2012	Annual Rolling Update
Ribble Valley Borough Council - Environmental Health Department	November 2012	Annual Rolling Update
Preston City Council - Environmental Health Department	October 2012	Annual Rolling Update
Nearest Surface Water Feature		
Ordnance Survey	July 2012	Quarterly
Pollution Incidents to Controlled Waters		
Environment Agency - North West Region	January 2000	Not Applicable
Prosecutions Relating to Authorised Processes		
Environment Agency - North West Region	March 2013	Monthly
Prosecutions Relating to Controlled Waters		
Environment Agency - North West Region	March 2013	Monthly
Registered Radioactive Substances		
Environment Agency - North West Region	January 2013	Quarterly
River Quality		
Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points		
Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points		
Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register		
Environment Agency - North West Region - Central Area	January 2013	Quarterly
Environment Agency - North West Region - North Area	January 2013	Quarterly
Water Abstractions		
Environment Agency - North West Region	January 2013	Quarterly
Water Industry Act Referrals		
Environment Agency - North West Region	January 2013	Quarterly
Groundwater Vulnerability		
Environment Agency - Head Office	January 2011	Not Applicable
Drift Deposits		
Environment Agency - Head Office	January 1999	Not Applicable

Agency & Hydrological	Version	Update Cycle
Bedrock Aquifer Designations		
British Geological Survey - National Geoscience Information Service	October 2012	Annually
Superficial Aquifer Designations		
British Geological Survey - National Geoscience Information Service	October 2012	Annually
Source Protection Zones		
Environment Agency - Head Office	January 2013	Quarterly
Extreme Flooding from Rivers or Sea without Defences		
Environment Agency - Head Office	January 2013	Quarterly
Flooding from Rivers or Sea without Defences		
Environment Agency - Head Office	January 2013	Quarterly
Areas Benefiting from Flood Defences		
Environment Agency - Head Office	January 2013	Quarterly
Flood Water Storage Areas		
Environment Agency - Head Office	January 2013	Quarterly
Flood Defences		
Environment Agency - Head Office	January 2013	Quarterly
Waste	**Version**	**Update Cycle**
BGS Recorded Landfill Sites		
British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites		
Environment Agency - North West Region - Central Area	January 2013	Quarterly
Environment Agency - North West Region - North Area	January 2013	Quarterly
Integrated Pollution Control Registered Waste Sites		
Environment Agency - North West Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries)		
Environment Agency - North West Region - Central Area	January 2013	Quarterly
Environment Agency - North West Region - North Area	January 2013	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency - North West Region - Central Area	January 2013	Quarterly
Environment Agency - North West Region - North Area	January 2013	Quarterly
Local Authority Landfill Coverage		
Lancashire County Council - Waste Management Group	May 2000	Not Applicable
Preston City Council - Environmental Health Department	May 2000	Not Applicable
Ribble Valley Borough Council - Environmental Health Department	May 2000	Not Applicable
Wyre Borough Council - Environmental Health Department	May 2000	Not Applicable
Local Authority Recorded Landfill Sites		
Lancashire County Council - Waste Management Group	May 2000	Not Applicable
Preston City Council - Environmental Health Department	May 2000	Not Applicable
Ribble Valley Borough Council - Environmental Health Department	May 2000	Not Applicable
Wyre Borough Council - Environmental Health Department	May 2000	Not Applicable
Registered Landfill Sites		
Environment Agency - North West Region - Central Area	March 2003	Not Applicable
Environment Agency - North West Region - North Area	March 2003	Not Applicable
Registered Waste Transfer Sites		
Environment Agency - North West Region - Central Area	March 2003	Not Applicable
Environment Agency - North West Region - North Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites		
Environment Agency - North West Region - Central Area	March 2003	Not Applicable
Environment Agency - North West Region - North Area	March 2003	Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	March 2013	Bi-Annually
Explosive Sites		
Health and Safety Executive	March 2013	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements		
Ribble Valley Borough Council	June 2012	Annual Rolling Update
Lancashire County Council	November 2012	Annual Rolling Update
Preston City Council	November 2012	Annual Rolling Update
Wyre Borough Council - Planning Department	October 2012	Annual Rolling Update
Planning Hazardous Substance Consents		
Ribble Valley Borough Council	June 2012	Annual Rolling Update
Lancashire County Council	November 2012	Annual Rolling Update
Preston City Council	November 2012	Annual Rolling Update
Wyre Borough Council - Planning Department	October 2012	Annual Rolling Update

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology		
British Geological Survey - National Geoscience Information Service	August 1996	Not Applicable
BGS Estimated Soil Chemistry		
British Geological Survey - National Geoscience Information Service	January 2010	Variable
BGS Recorded Mineral Sites		
British Geological Survey - National Geoscience Information Service	October 2012	Bi-Annually
Brine Compensation Area		
Cheshire Brine Subsidence Compensation Board	August 2011	Not Applicable
Coal Mining Affected Areas		
The Coal Authority - Mining Report Service	January 2012	As notified
Mining Instability		
Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain		
British Geological Survey - National Geoscience Information Service	February 2011	Not Applicable
Potential for Collapsible Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Compressible Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Ground Dissolution Stability Hazards		
British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Landslide Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Running Sand Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	February 2011	Annually
Radon Potential - Radon Affected Areas		
British Geological Survey - National Geoscience Information Service	July 2011	As notified
Radon Potential - Radon Protection Measures		
British Geological Survey - National Geoscience Information Service	July 2011	As notified

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	November 2012	Quarterly
Fuel Station Entries Catalist Ltd - Experian	February 2013	Quarterly
Sensitive Land Use	**Version**	**Update Cycle**
Areas of Adopted Green Belt Preston City Council Ribble Valley Borough Council Wyre Borough Council - Planning Department	 February 2013 February 2013 February 2013	 As notified As notified As notified
Areas of Unadopted Green Belt Preston City Council Ribble Valley Borough Council Wyre Borough Council - Planning Department	 February 2013 February 2013 February 2013	 As notified As notified As notified
Areas of Outstanding Natural Beauty Natural England	March 2013	Bi-Annually
Environmentally Sensitive Areas Natural England	February 2013	Annually
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	November 2012	Bi-Annually
Marine Nature Reserves Natural England	August 2012	Bi-Annually
National Nature Reserves Natural England	February 2013	Bi-Annually
National Parks Natural England	February 2013	Bi-Annually
Nitrate Sensitive Areas Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	February 2012	Not Applicable
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	February 2013	Annually
Ramsar Sites Natural England	February 2013	Bi-Annually
Sites of Special Scientific Interest Natural England	February 2013	Bi-Annually
Special Areas of Conservation Natural England	February 2013	Bi-Annually
Special Protection Areas Natural England	February 2013	Bi-Annually

Data Suppliers

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	
Centre for Ecology and Hydrology	
Countryside Council for Wales	
Scottish Natural Heritage	
Natural England	
Health Protection Agency	
Ove Arup	
Peter Brett Associates	

Useful Contacts

Contact	Name and Address	Contact Details
1	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 08708 506 506 Email: enquiries@environment-agency.gov.uk
2	**Ribble Valley Borough Council - Environmental Health Department** Council Offices, Church Walk, Clitheroe, Lancashire, BB7 2RA	Telephone: 01200 425111 Fax: 01200 26339 Website: www.ribblevalley.gov.uk
3	**British Geological Survey - Enquiry Service** British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
4	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmark.co.uk Website: www.landmarkinfo.co.uk
5	**Natural England** Northminster House, Northminster Road, Peterborough, Cambridgeshire, PE1 1UA	Telephone: 0845 600 3078 Fax: 01733 455103 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
6	**Lancashire County Council - Waste Management Group** Environment Directorate, Guild House, Cross Street, Preston, Lancashire, PR1 8RD	Website: www.lancashire.gov.uk
-	**Health Protection Agency - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards** Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@hpa.org.uk Website: www.hpa.org.uk
-	**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 / 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
	WGR	Worked Ground (Undivided)	Void	Holocene - Holocene
	SLIP	Landslide Deposit	Unknown/Unclassified Entry	Quaternary - Quaternary

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	SUPNM	Superficial Theme Not Mapped [For Digital Map Use Only]	Unknown/Unclassified Entry	Not Applicable - Not Applicable
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Flandrian - Flandrian
	TILLD	Till, Devensian	Diamicton	Devensian - Devensian
	GFDUD	Glaciofluvial Deposits, Devensian	Sand and Gravel	Devensian - Devensian
	GLLD	Glaciolacustrine Deposits	Clay and Silt	Pleistocene - Pleistocene
	GLLD	Glaciolacustrine Deposits	Sand	Pleistocene - Pleistocene
	ALF	Alluvial Fan Deposits	Gravel, Sand, Silt and Clay	Quaternary - Quaternary
	PEAT	Peat	Peat	Quaternary - Quaternary
	RTDU	River Terrace Deposits (Undifferentiated)	Sand and Gravel	Quaternary - Quaternary
	HEAD	Head	Clay, Silt, Sand and Gravel	Quaternary - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	PNDS	Pendleside Sandstone Member	Sandstone	Brigantian - Brigantian
	BSG	Bowland Shale Formation	Mudstone and Siltstone	Yeadonian - Asbian
	PKSL	Park Style Limestone Member	Limestone	Brigantian - Asbian
	BSG	Bowland Shale Formation	Sandstone and Mudstone	Yeadonian - Asbian
	BSG	Bowland Shale Formation	Mudstone	Yeadonian - Asbian
	PDL	Pendleside Limestone Formation	Limestone	Asbian - Holkerian
	BOH	Hodderense Limestone Formation	Limestone	Holkerian - Holkerian
	RKM	Rad Brook Mudstone Member	Mudstone	Holkerian - Holkerian
	CHGL	Chaigley Limestone Member	Limestone	Arundian - Arundian
	HOM	Hodder Mudstone Formation	Mudstone	Holkerian - Chadian
	LMKL	Limekiln Wood Limestone Member	Limestone	Chadian - Chadian
	CLLK	Clitheroe Limestone Formation (Knoll-Reef)	Limestone	Chadian - Chadian
	BNKS	Buckbanks Sandstone Member	Sandstone	Chadian - Chadian
	CLL	Clitheroe Limestone Formation	Limestone	Chadian - Chadian
	THTL	Thornton Limestone Member	Limestone	Chadian - Chadian
	CHL	Chatburn Limestone Formation	Limestone	Chadian - Courceyan
		Faults		

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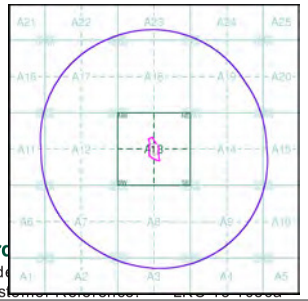
Geology 1:50,000 Maps

This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published paper maps.
The various geological layers - artificial and landslip deposits, superficial geology and solid (bedrock) geology are displayed in separate maps, but superimposed on the final 'Combined Surface Geology' map. All map legends feature on this page. Not all layers have complete nationwide coverage, so availability of data for relevant map sheets is indicated below.

Geology 1:50,000 Maps Coverage

Map ID:	1
Map Sheet No:	067
Map Name:	Garstang
Map Date:	1999
Bedrock Geology:	Available
Superficial Geology:	Available
Artificial Geology:	Available
Faults:	Available
Landslip:	Available
Rock Segments:	Not Available

Geology 1:50,000 Maps - Slice A



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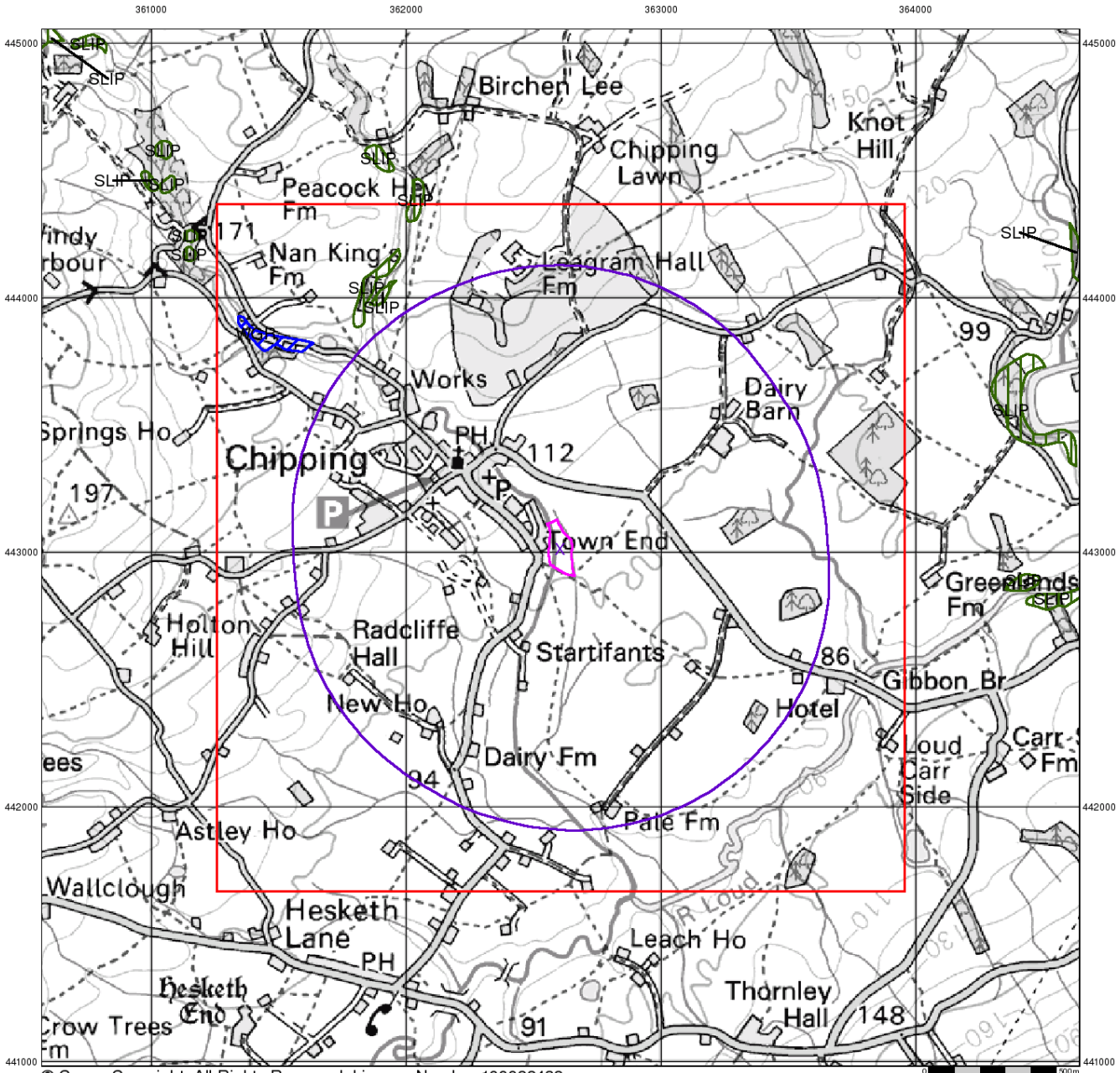
National Grid Reference: 362610, 443010
Slice: A
Site Area (Ha): 1.49
Search Buffer (m): 1000

Site Details:

Land off Longridge Road, Chipping, Preston, PR3 2QD

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



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Artificial Ground and Landslip

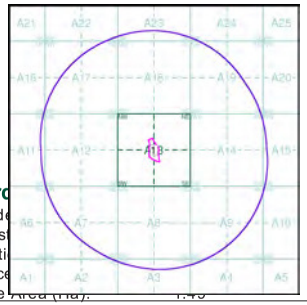
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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

Artificial ground includes:

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

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

Artificial Ground and Landslip Map - Slice A



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Site Details:
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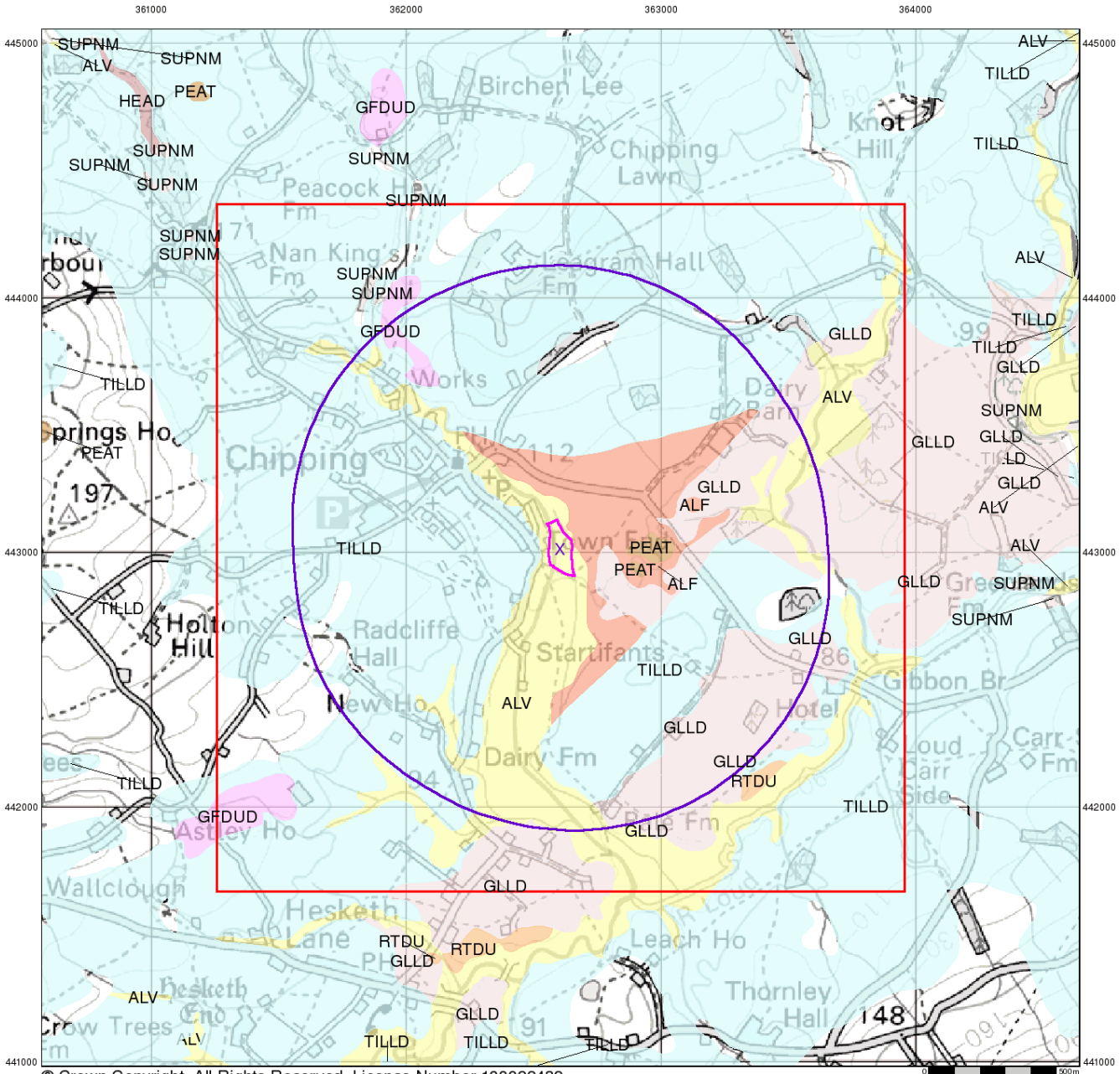
Web: www.envirocheck.co.uk



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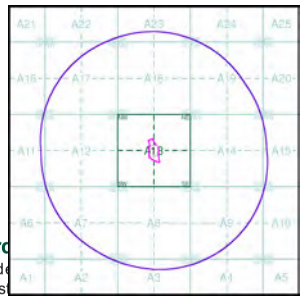
Superficial Geology

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



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National Grid Reference: 362610, 443010
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Site Area (Ha): 1.49
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Site Details:

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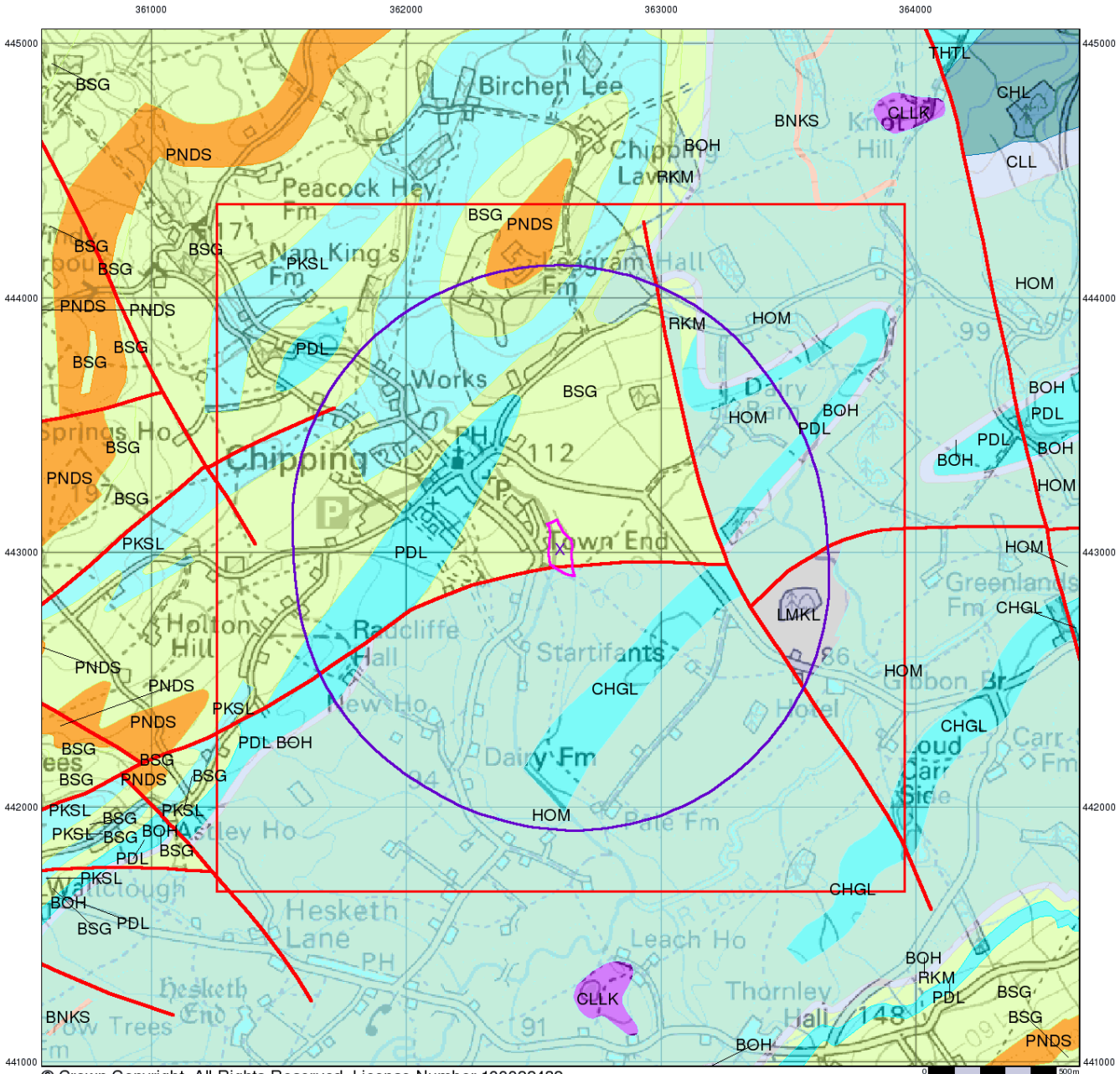

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Bedrock and Faults

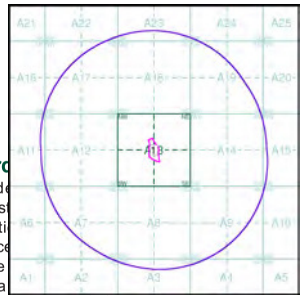
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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



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Site Details:

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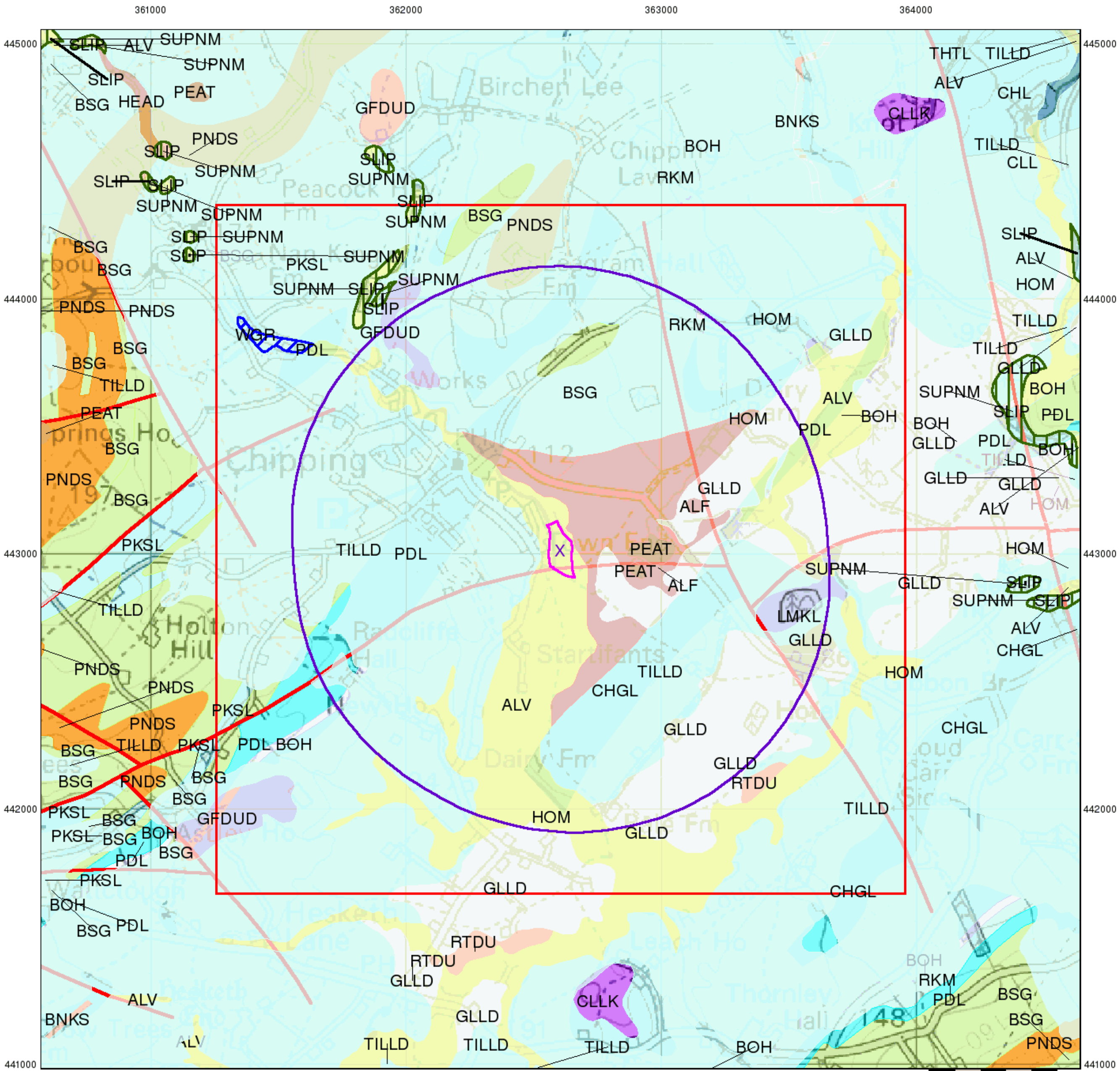


Combined Surface Geology

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.

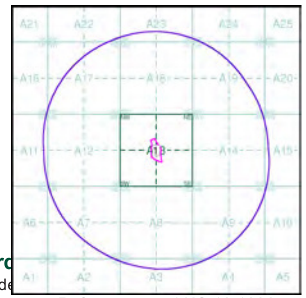
Additional Information

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



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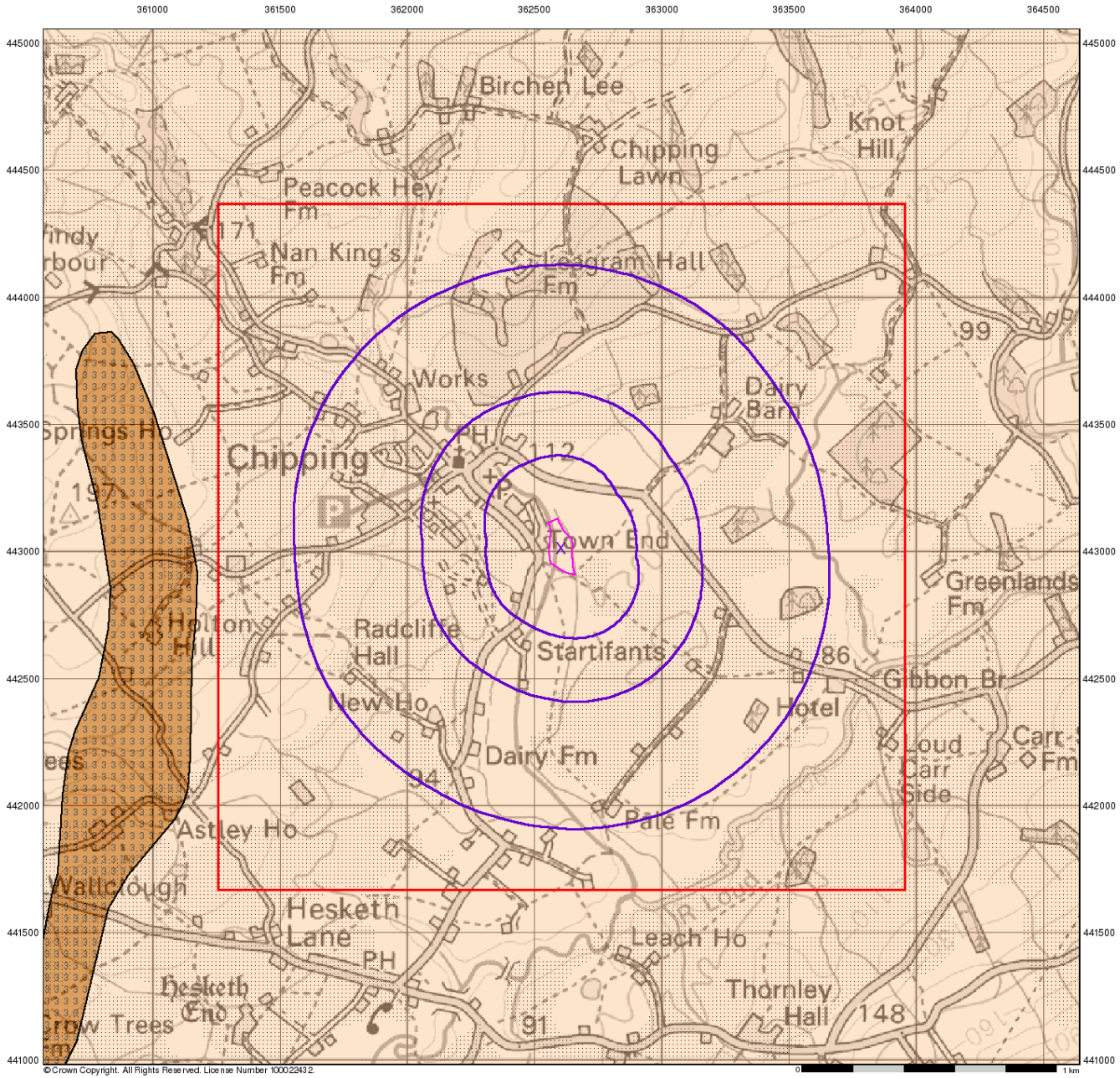
Customer Reference: LKC 13 1086a
National Grid Reference: 362610, 443010
Slice: A
Site Area (Ha): 1.49
Search Buffer (m): 1000

Site Details:

Land off Longridge Road, Chipping, Preston, PR3 2QD

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



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Groundwater Vulnerability

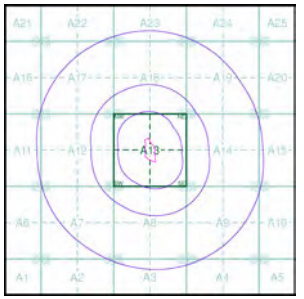
General

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

Agency and Hydrological

Geological Classes	Soil Classes
Major Aquifer (Highly Permeable)	High (H) 1, 2, 3, U
	Intermediate (I) 1, 2
	Low
Minor Aquifer (Variably Permeable)	High (H) 1, 2, 3, U
	Intermediate (I) 1, 2
	Low
Non Aquifer (Negligibly Permeable)	
Water or Sea	
Drift Deposit	

Site Sensitivity Context Map - Slice A



Order Details

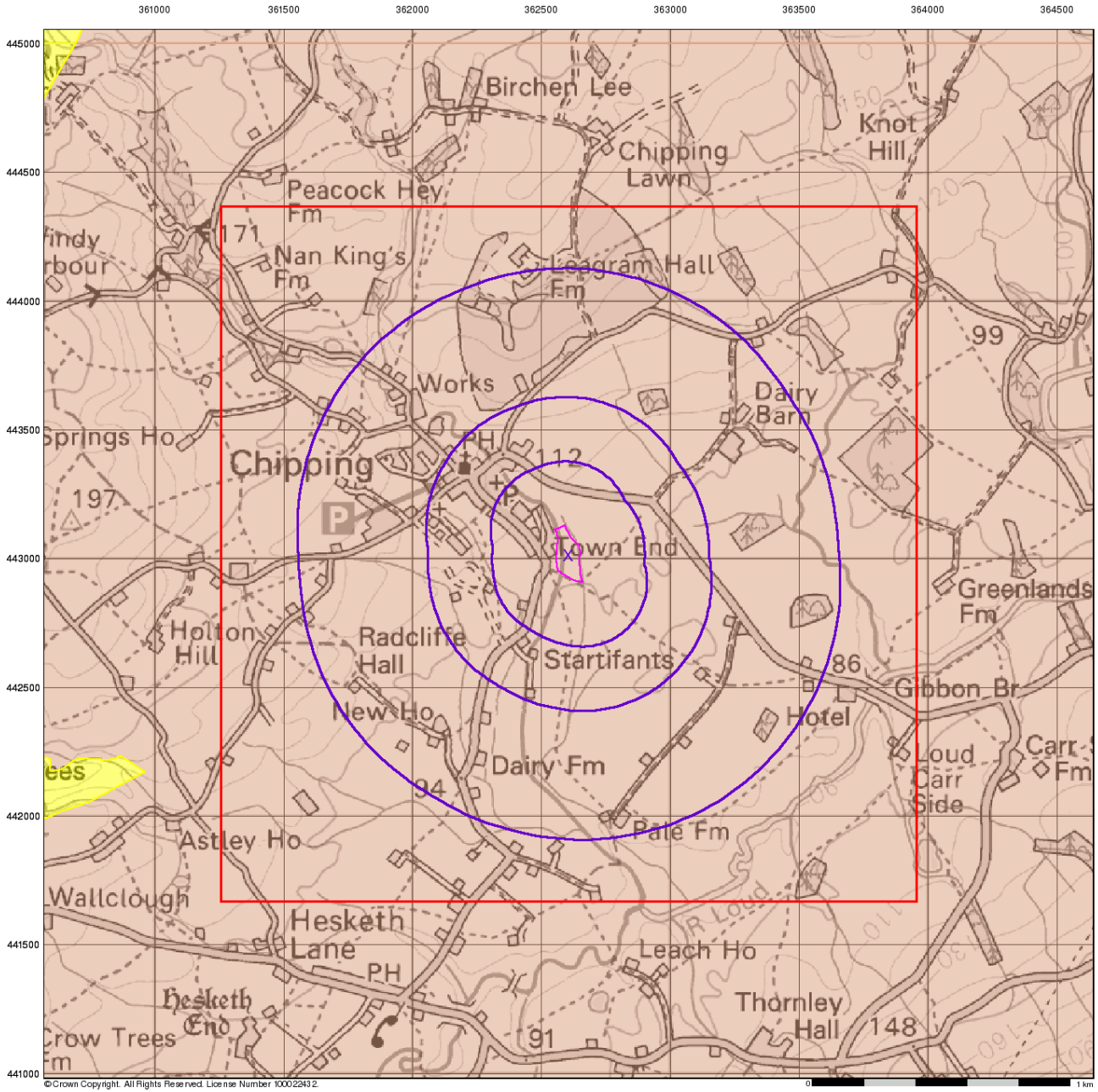
Order Number:	45486645_1_1
Customer Ref:	LKC 13 1086a
National Grid Reference:	362610, 443010
Slice:	A
Site Area (Ha):	1.49
Search Buffer (m):	1000

Site Details

Land off Longridge Road, Chipping, Preston, PR3 2QD

Landmark Information Group

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



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Bedrock Aquifer Designation

General

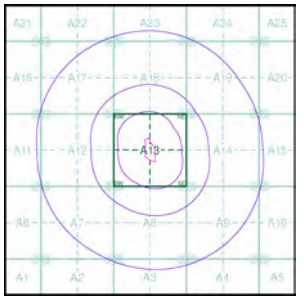
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

Order Number:	45486645_1_1
Customer Ref:	LKC 13 1086a
National Grid Reference:	362610, 443010
Slice:	A
Site Area (Ha):	1.49
Search Buffer (m):	1000

Site Details

Land off Longridge Road, Chipping, Preston, PR3 2QD

Landmark Information Group

Tel: 0844 844 9952
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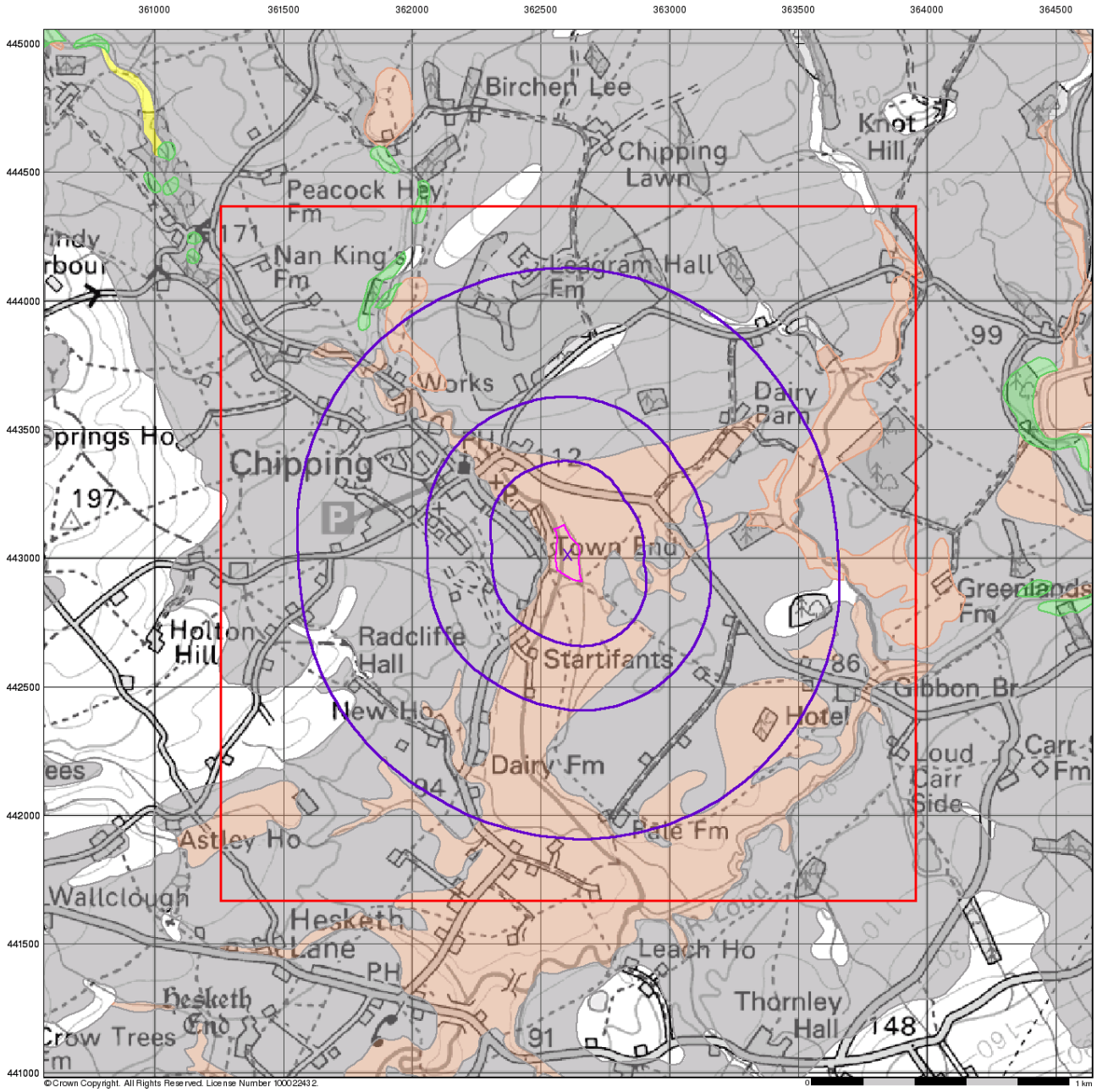

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Superficial Aquifer Designation

General

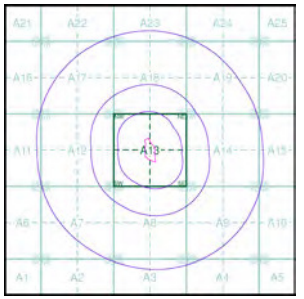
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A

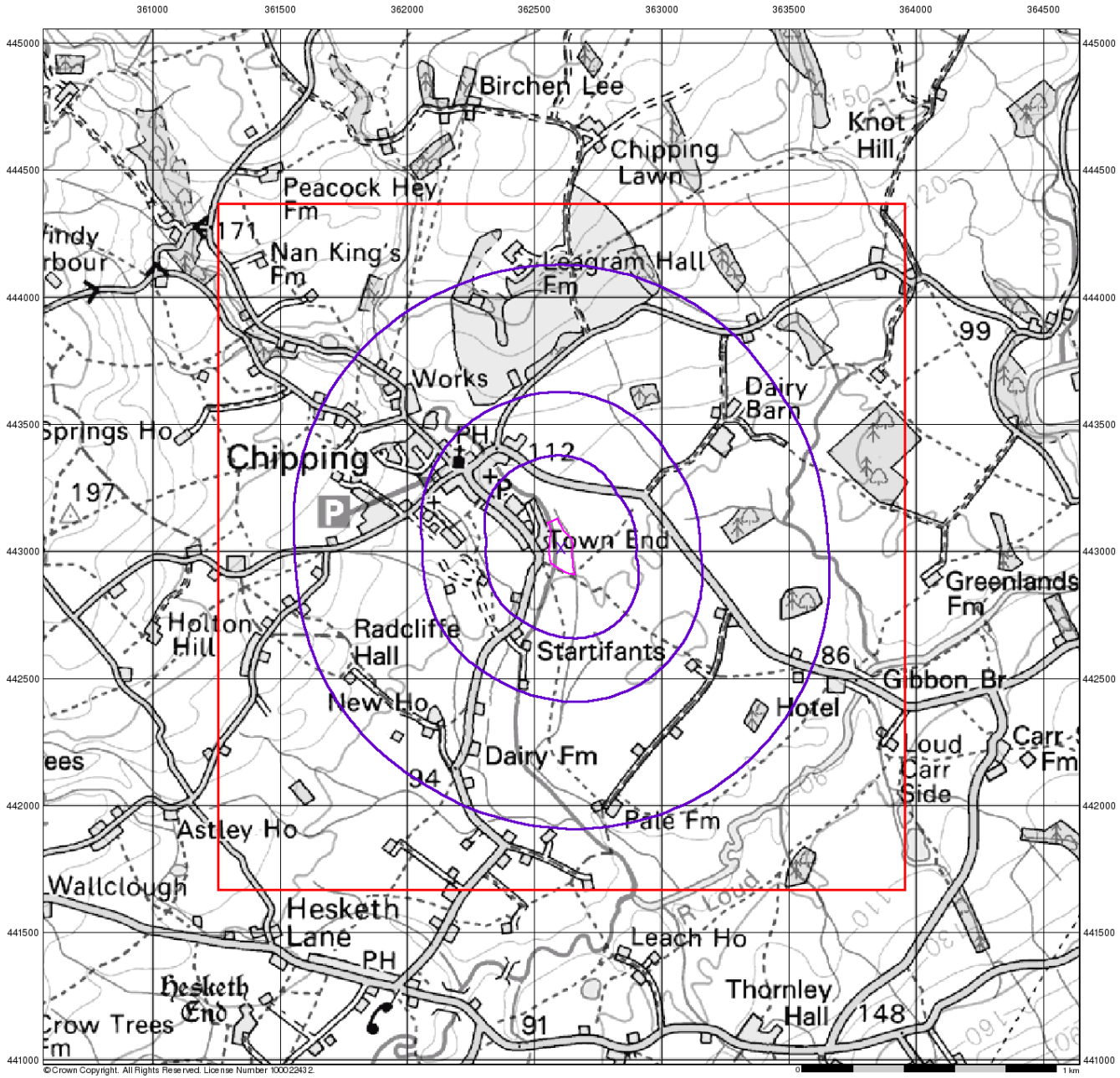


Order Details

Order Number:	45486645_1_1
Customer Ref:	LKC 13 1086a
National Grid Reference:	362610, 443010
Slice:	A
Site Area (Ha):	1.49
Search Buffer (m):	1000

Site Details

Land off Longridge Road, Chipping, Preston, PR3 2QD



LK CONSULT LIMITED

Source Protection Zones

General

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

Slice | Map ID

Agency and Hydrological

Source Protection Zone I

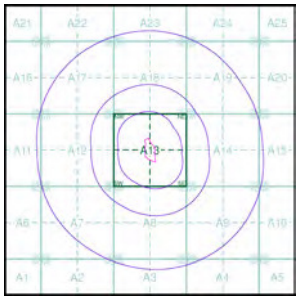
Source Protection Zone II

Source Protection Zone III

Zone of Special Interest

Source Protection Zone Borehole

Site Sensitivity Context Map - Slice A



Order Details

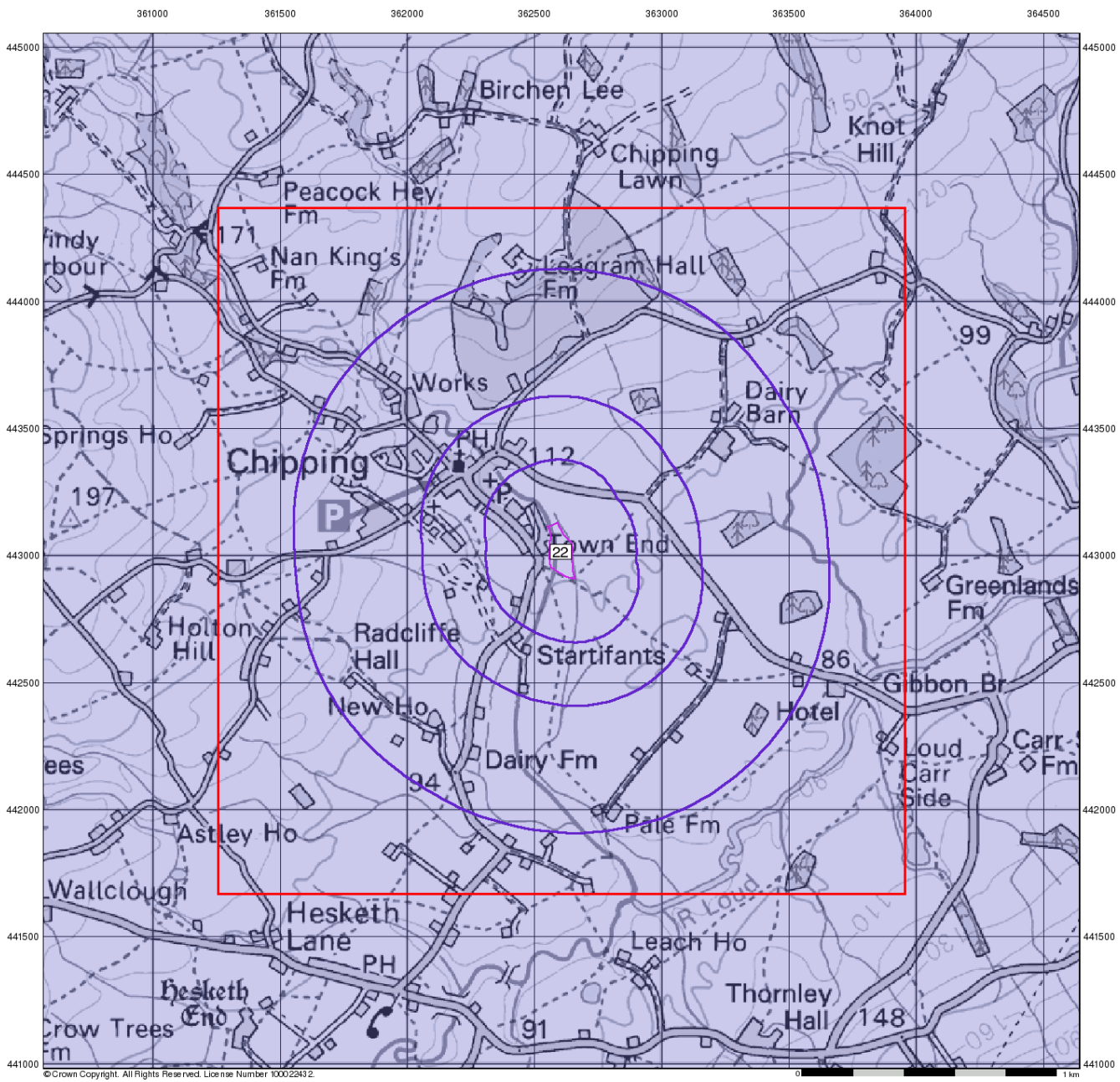
Order Number:	45486645_1_1
Customer Ref:	LKC 13 1086a
National Grid Reference:	362610, 443010
Slice:	A
Site Area (Ha):	1.49
Search Buffer (m):	1000

Site Details

Land off Longridge Road, Chipping, Preston, PR3 2QD

Landmark Information Group

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



LK CONSULT LIMITED

Sensitive Land Uses

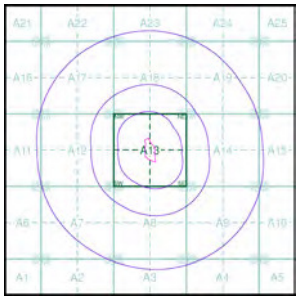
General

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

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice A



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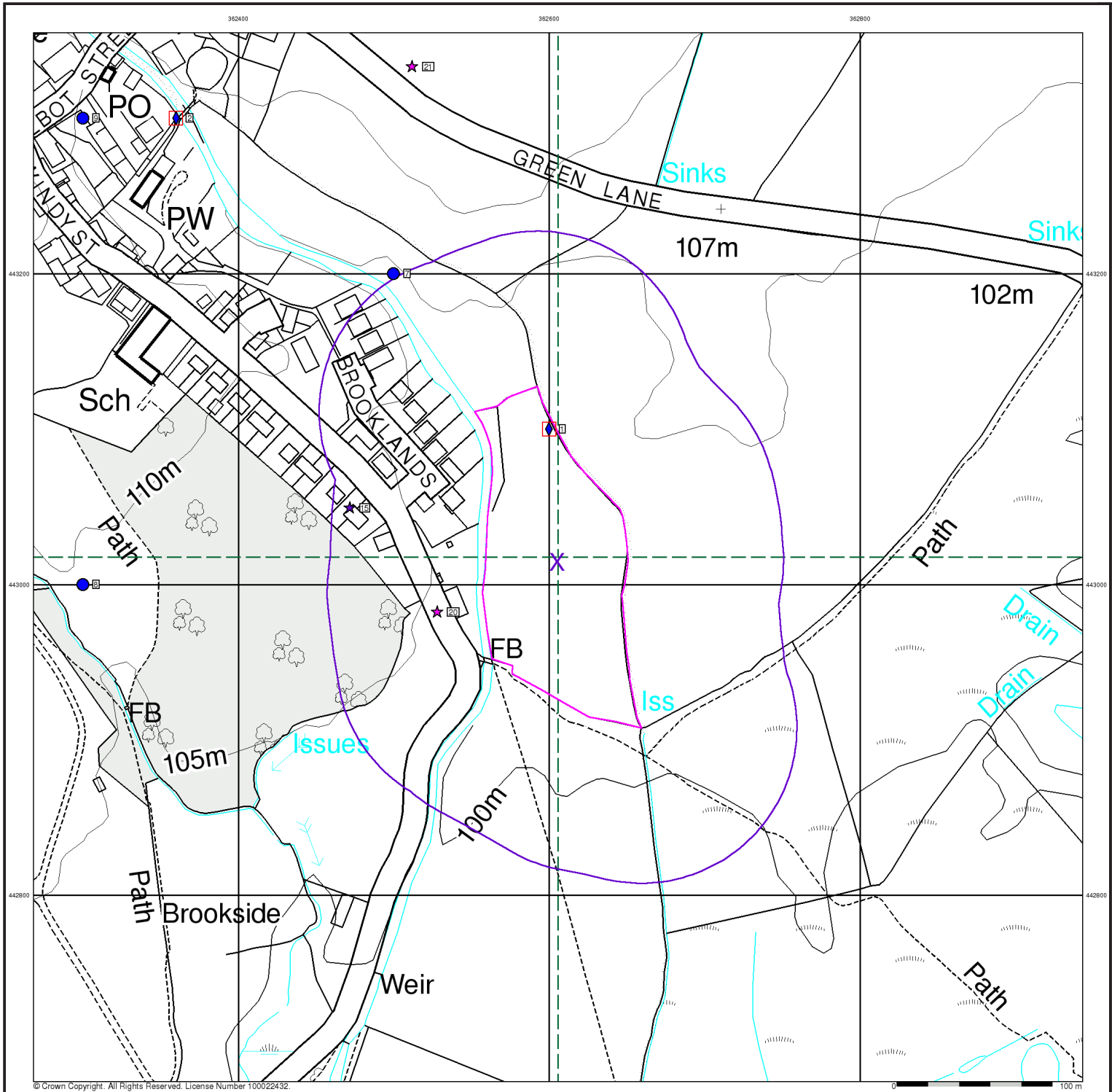


LK CONSULT LIMITED

General

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

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Geological

- BGS Recorded Mineral Site

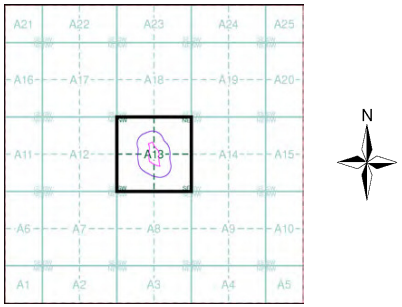
Hazardous Substances

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

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

Site Sensitivity Map - Segment A13



Order Details

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Slice:	A
Site Area (Ha):	1.49

Site Details

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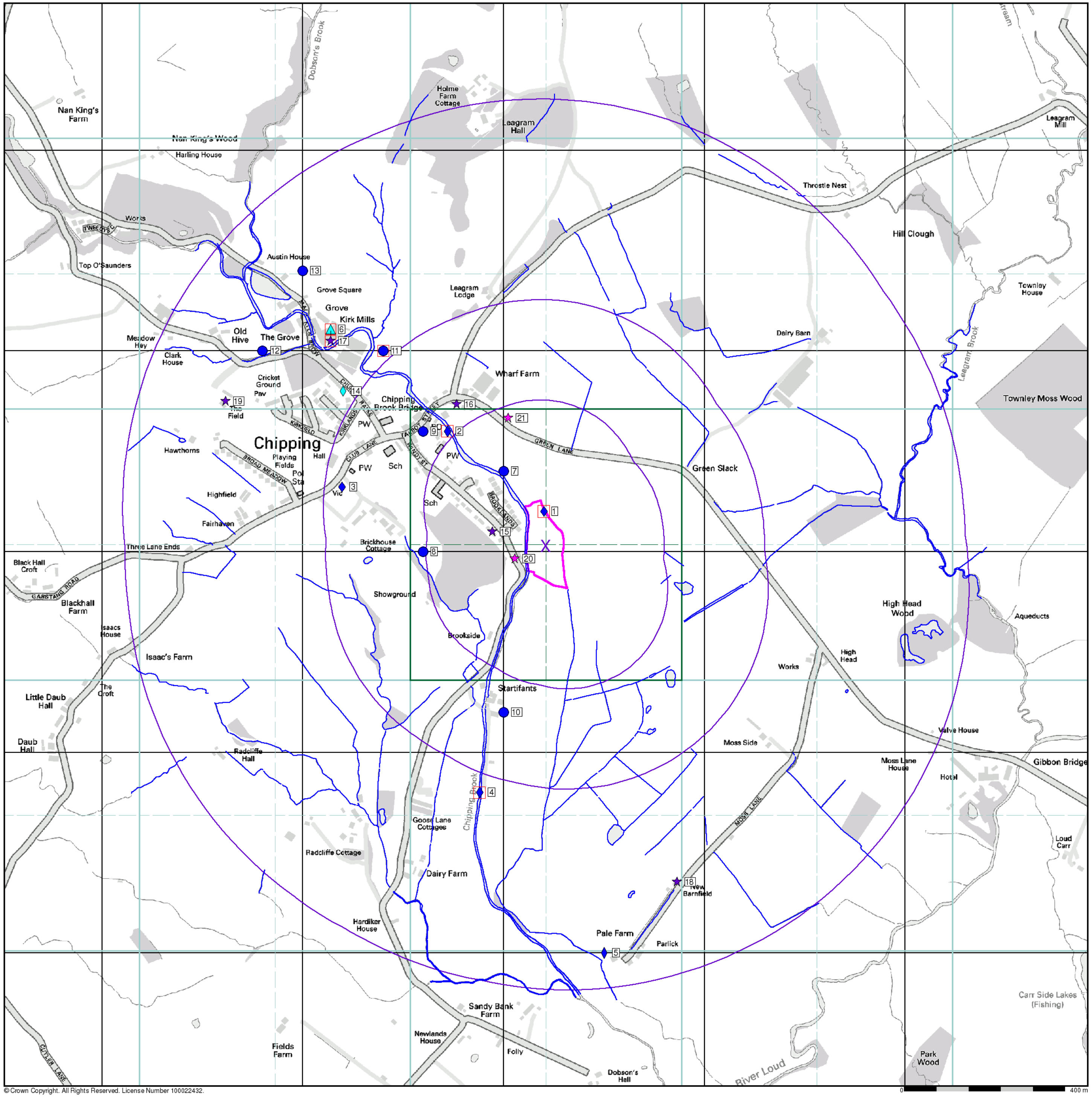

General

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

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
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- Enforcement or Prohibition Notice
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- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
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- River Quality Sampling Point
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- Water Abstraction
- Water Industry Act Referral

Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

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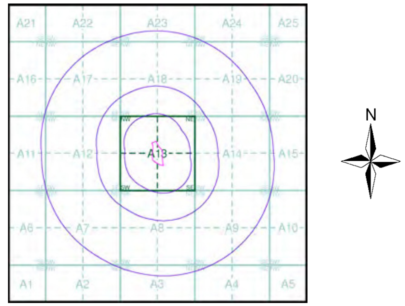
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Hazardous Substances

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

Site Sensitivity Map - Slice A



Order Details

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National Grid Reference: 362610, 443010
Slice: A
Site Area (Ha): 1.49
Search Buffer (m): 1000

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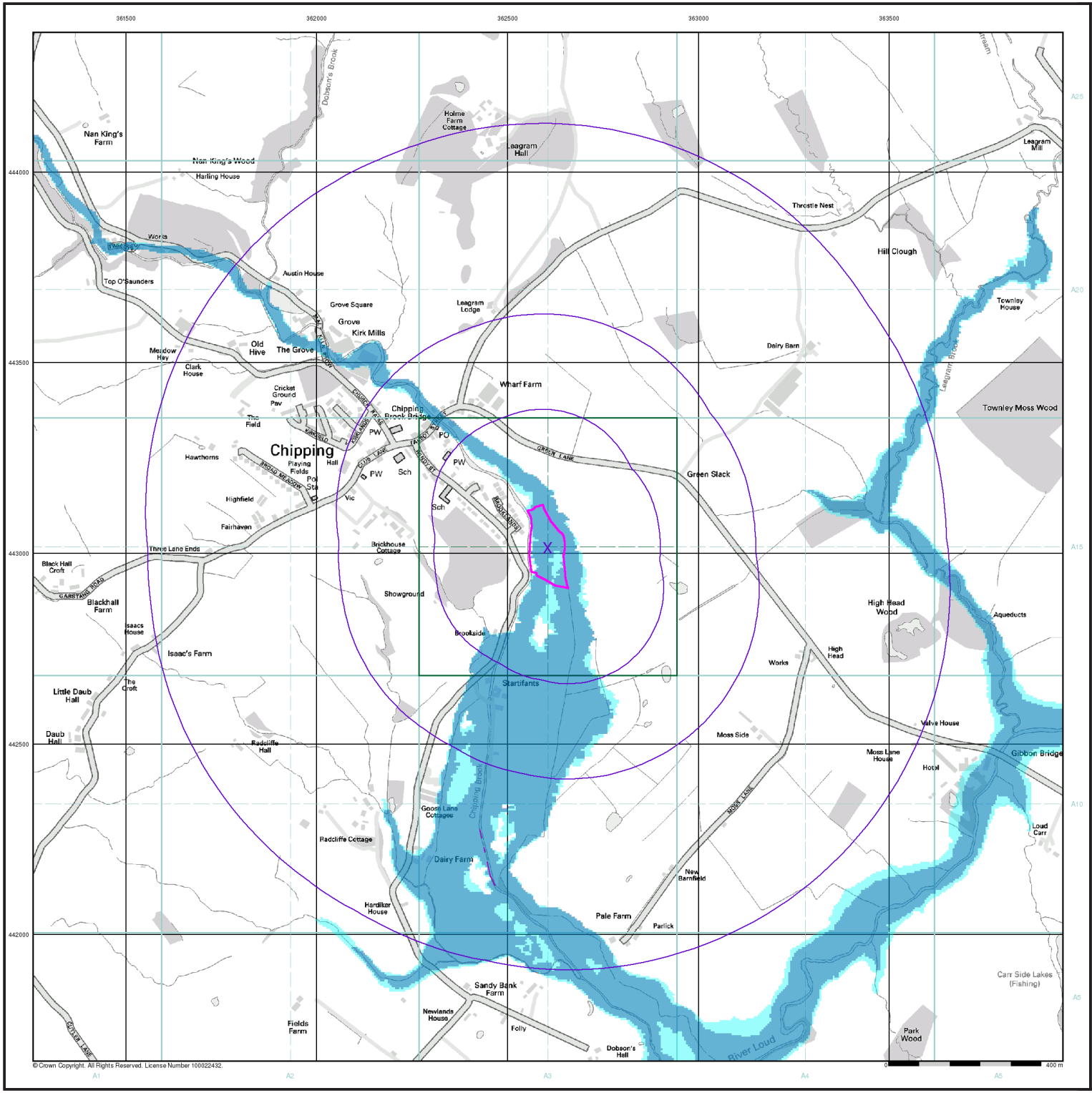


LK CONSULT LIMITED

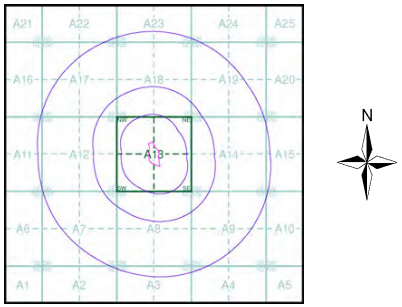
General

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

Agency and Hydrological (Flood)

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

Flood Map - Slice A



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Slice:	A
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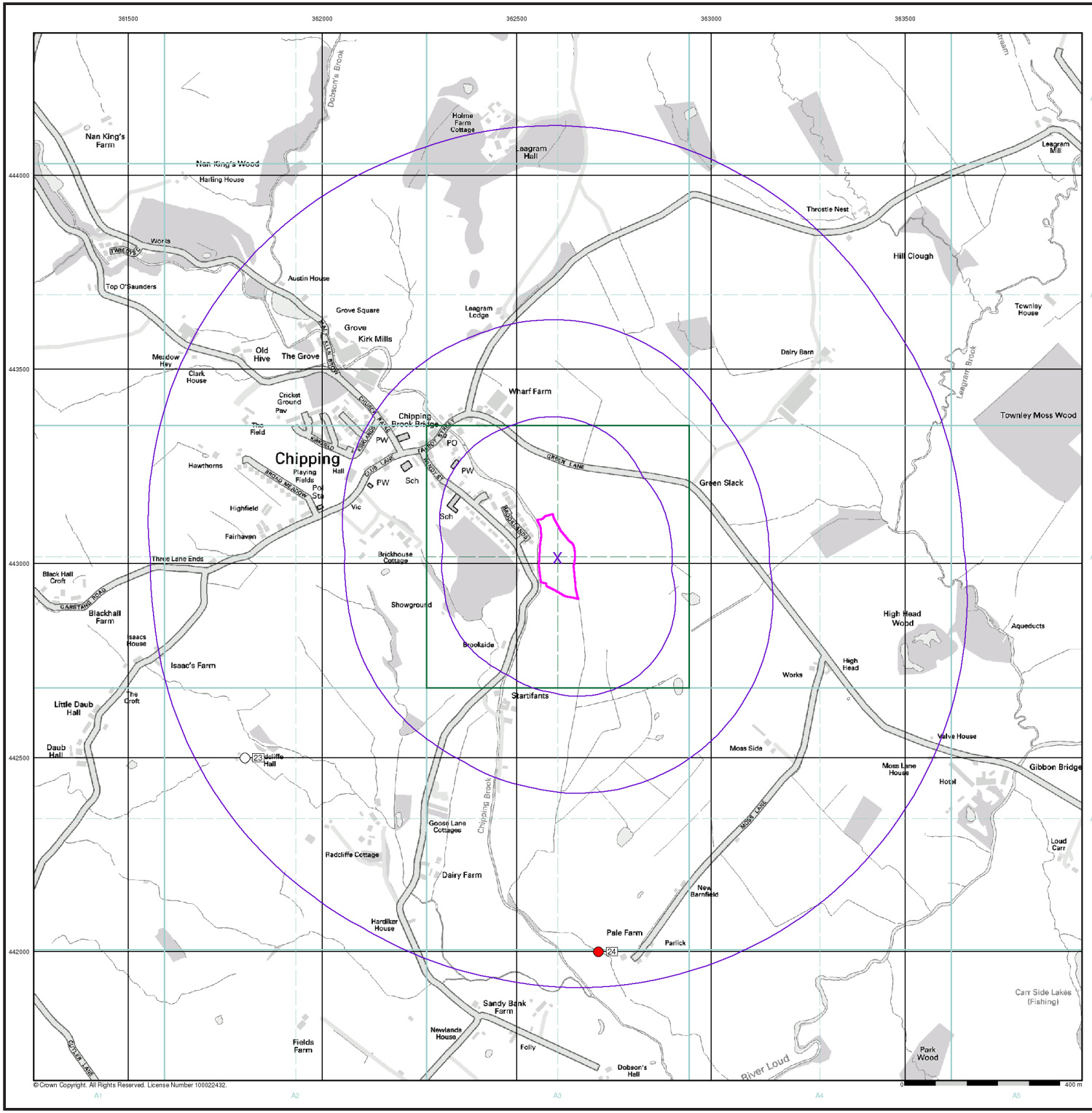


LK CONSULT LIMITED

General

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

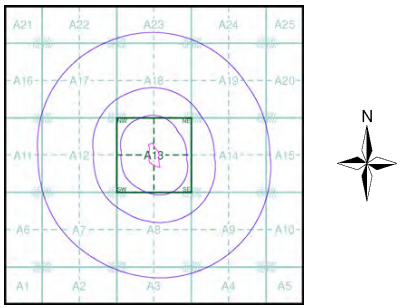
Agency and Hydrological (Boreholes)

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

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

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

Borehole Map - Slice A



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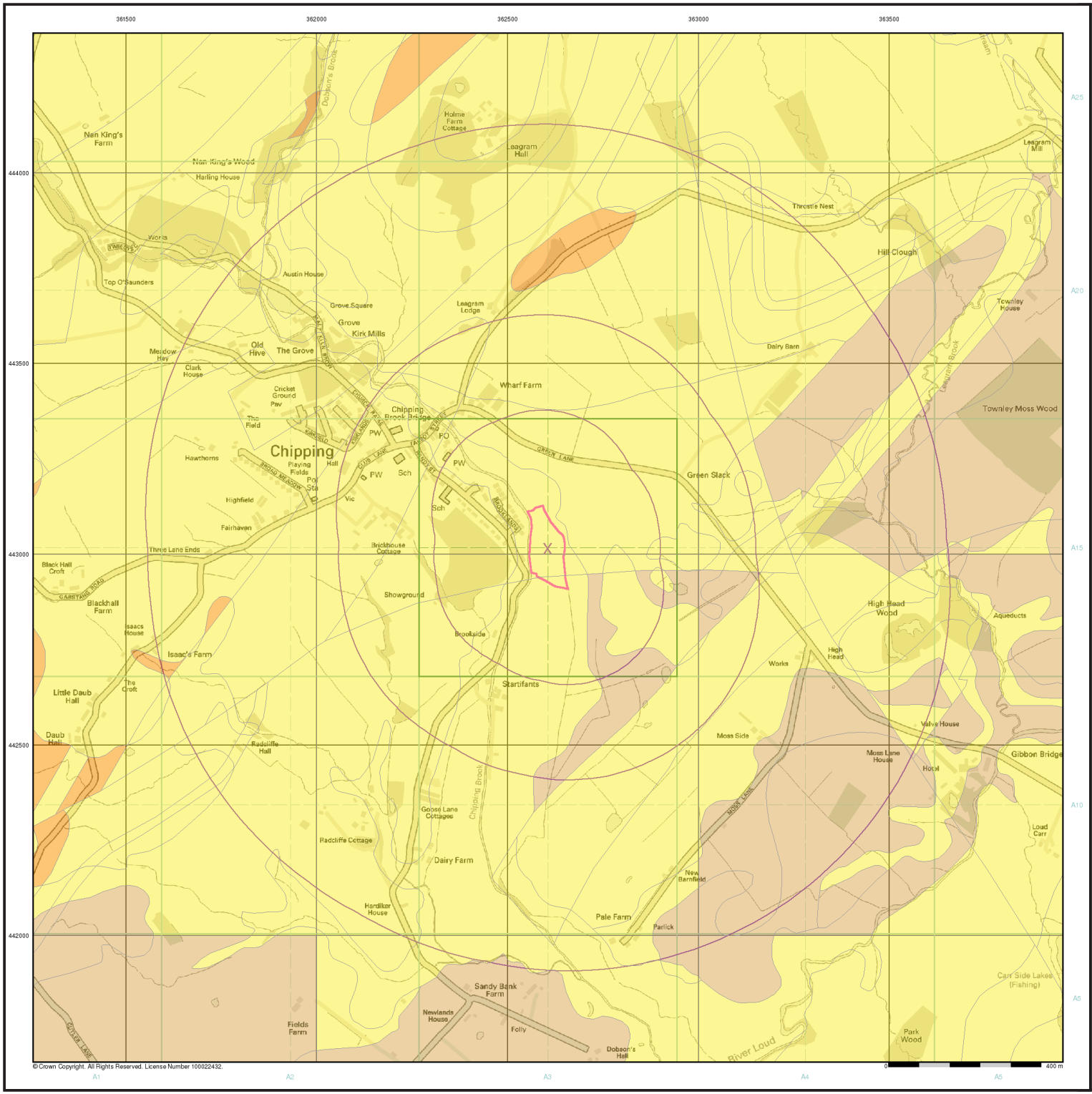


LK CONSULT LIMITED

General

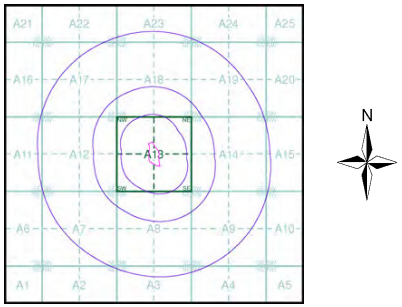
Specified Site | Specified Buffer(s) | Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg

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

Estimated Soil Chemistry Arsenic - Slice A



Order Details

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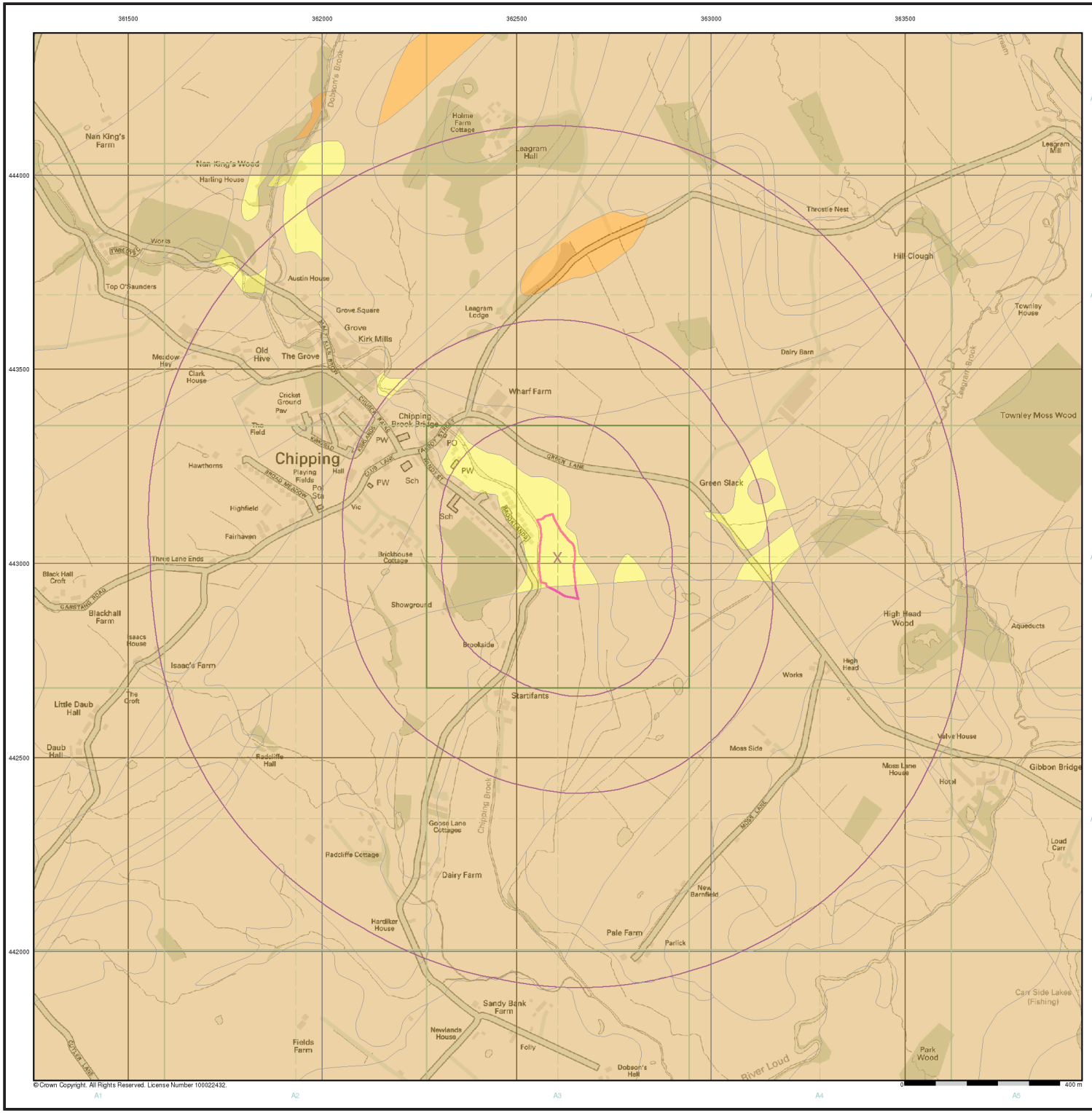


LK CONSULT LIMITED

General

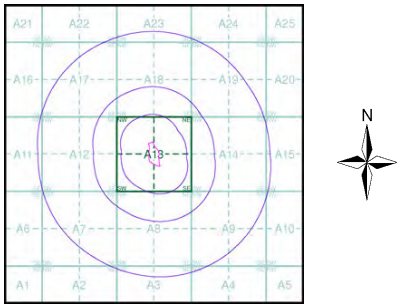
Specified Site | Specified Buffer(s) | Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg

- < 1.8
- 1.8 - 2.2
- 2.2 - 3.0
- > 3.0

Estimated Soil Chemistry Cadmium - Slice A



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Site Details

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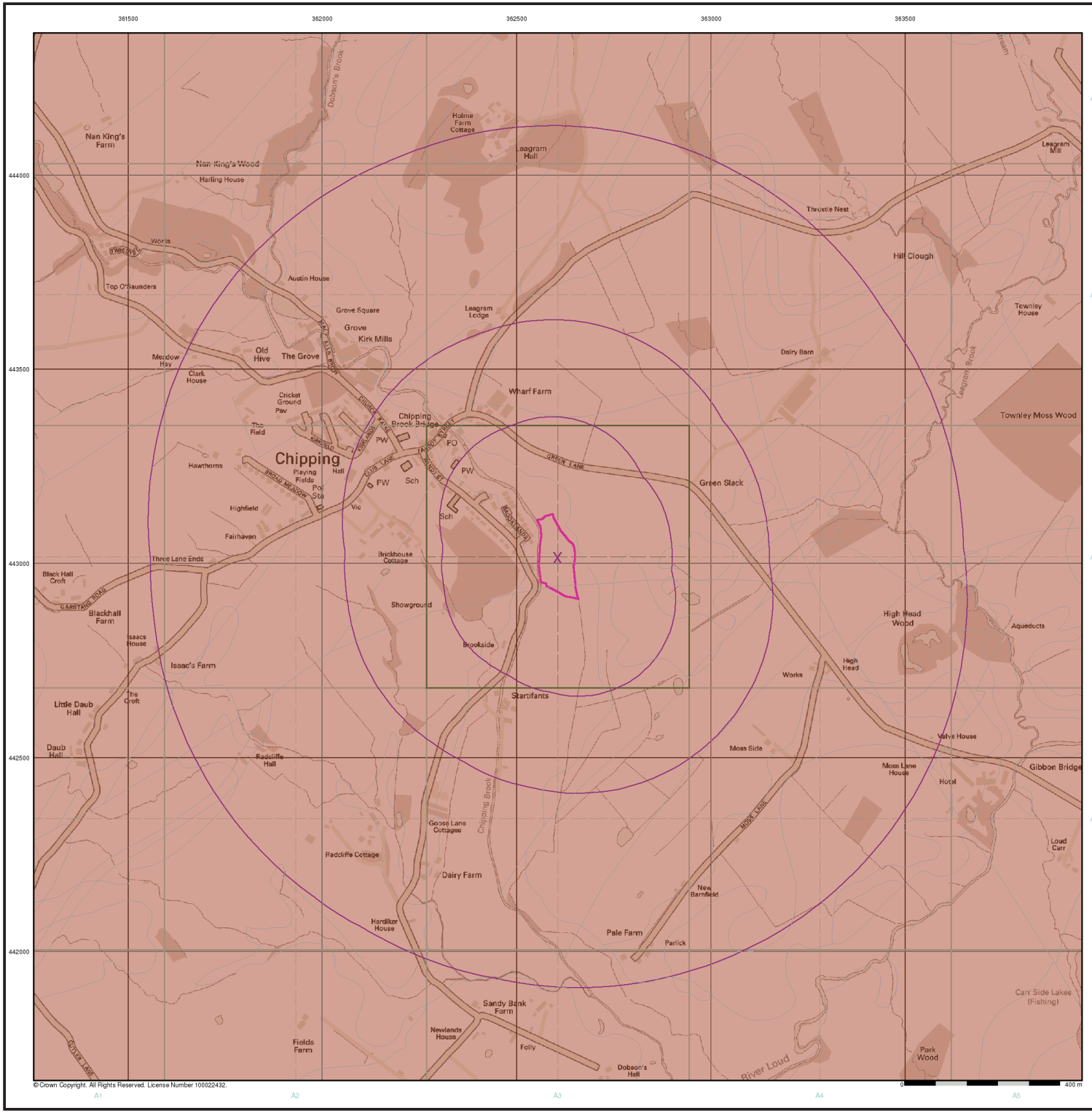


LK CONSULT LIMITED

General

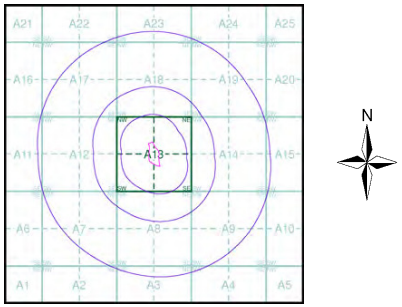
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg

- < 20
- 20 - 40
- 40 - 60
- 60 - 90
- 90 - 120
- 120 - 180
- > 180

Estimated Soil Chemistry Chromium - Slice A



Order Details

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Site Details

Land off Longridge Road, Chipping, Preston, PR3 2QD

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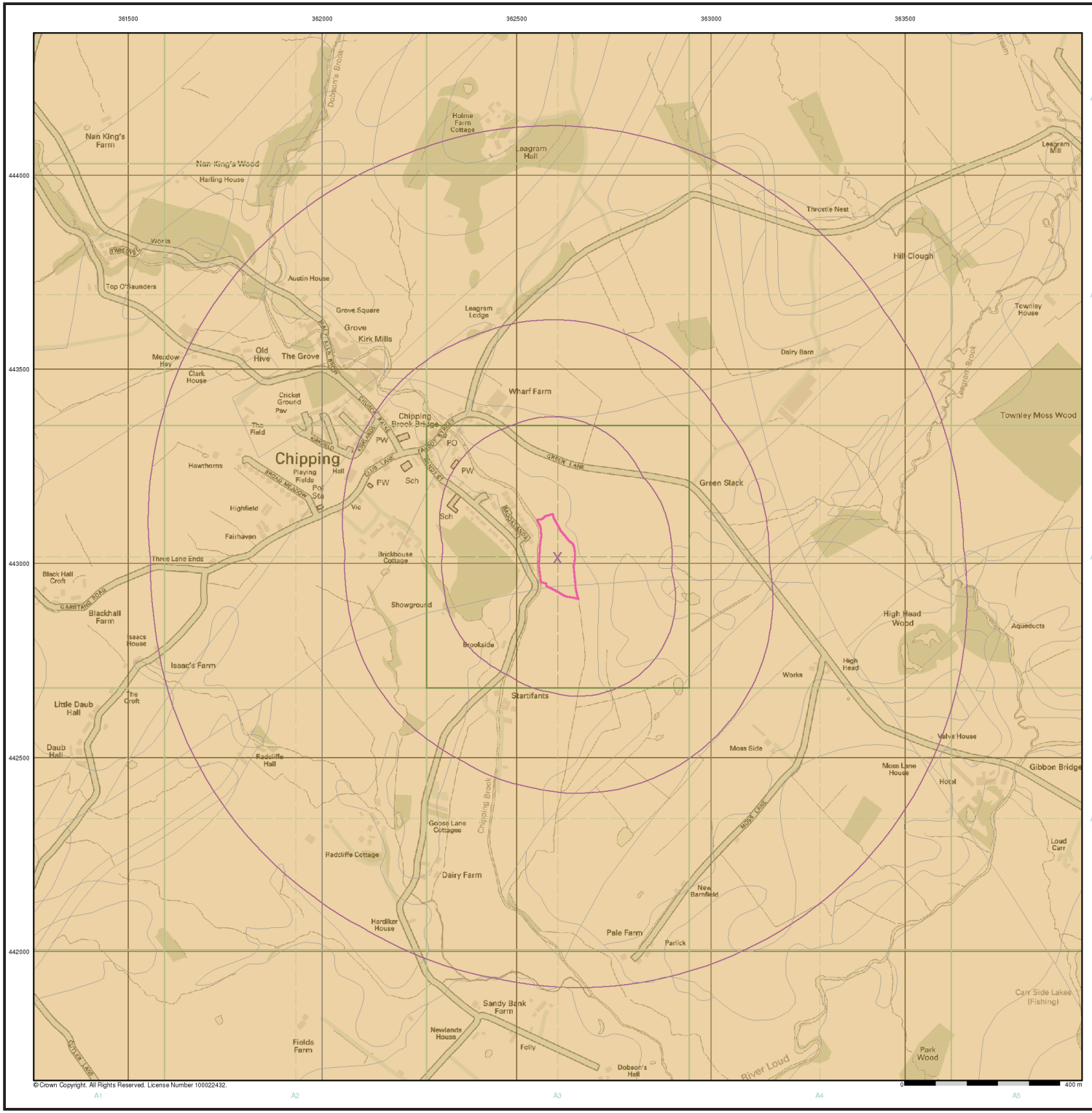


LK CONSULT LIMITED

General

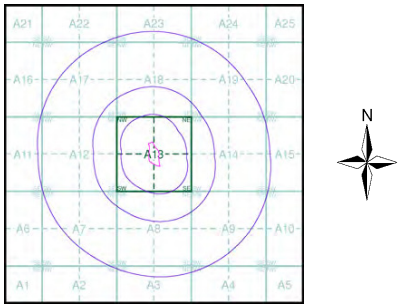
Specified Site | Specified Buffer(s) | Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg

- < 150
- 150 - 300
- 300 - 600
- 600 - 900
- > 900

Estimated Soil Chemistry Lead - Slice A



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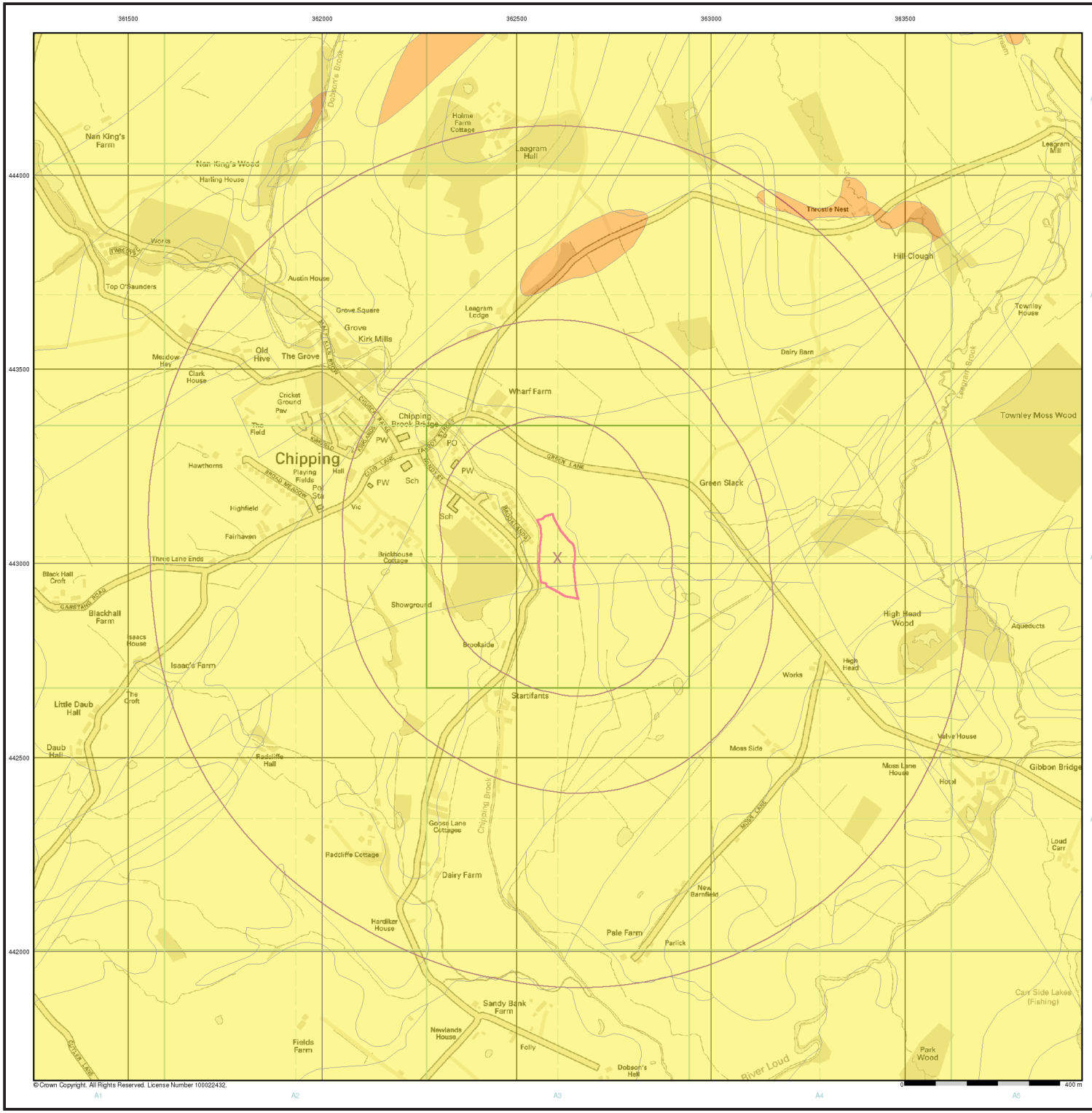


LK CONSULT LIMITED

General

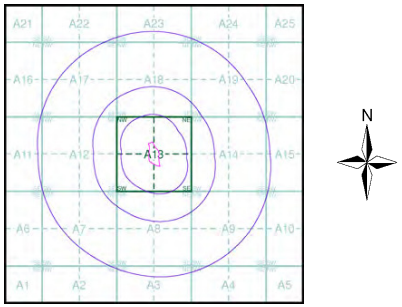
Specified Site | Specified Buffer(s) | Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg

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

Estimated Soil Chemistry Nickel - Slice A



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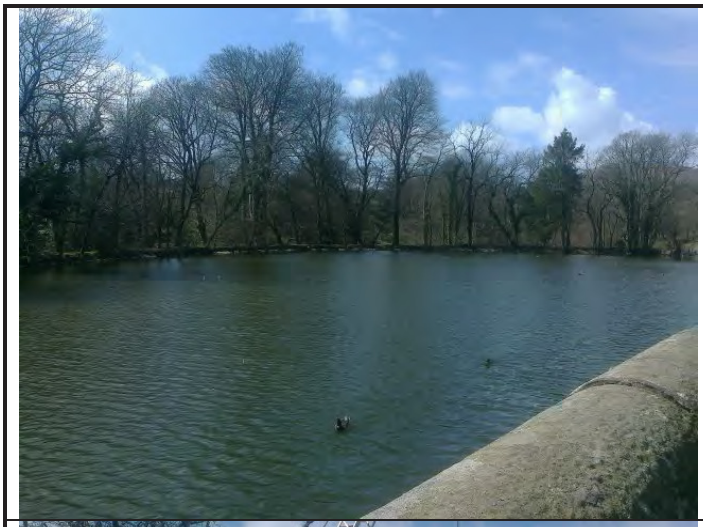
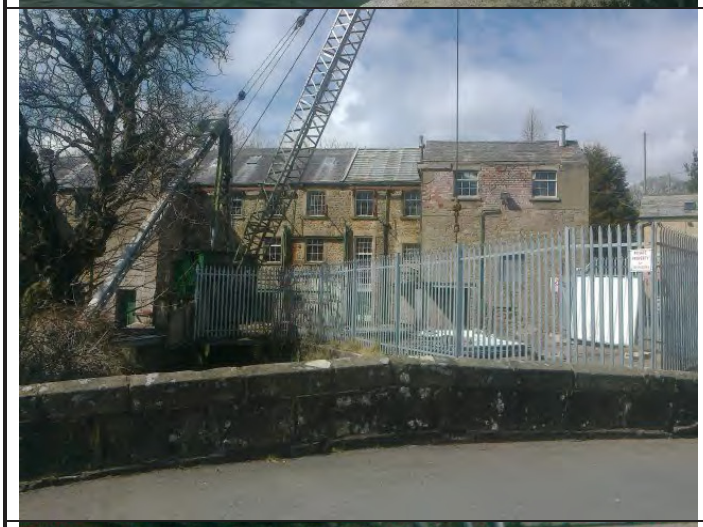
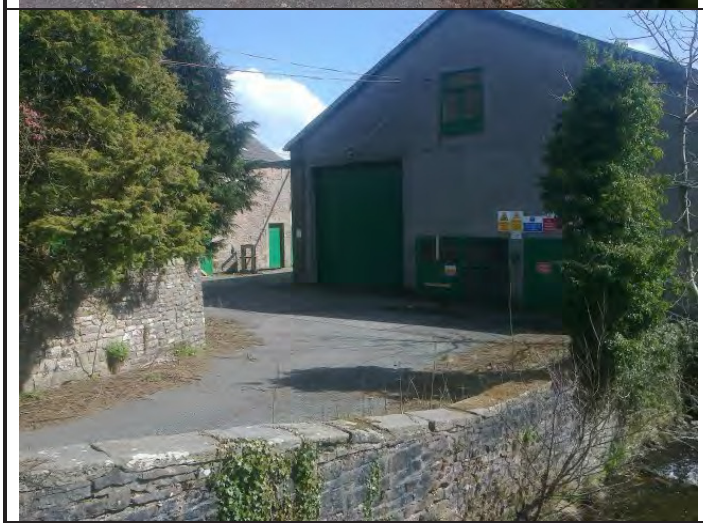
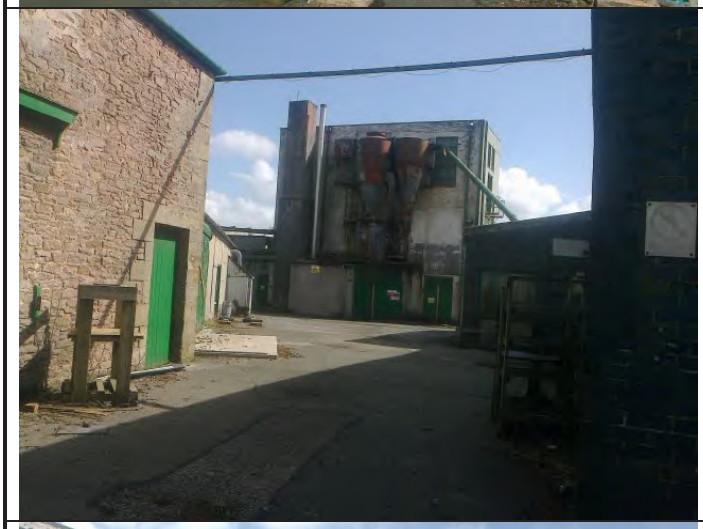
APPENDIX C

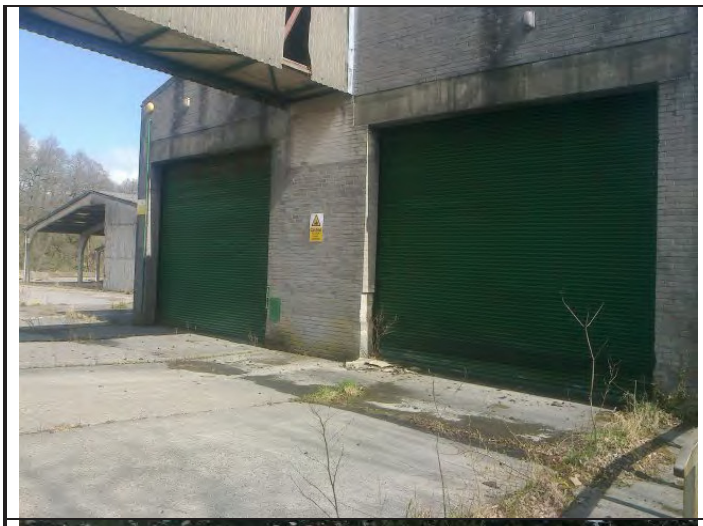
SITE RECONNAISSANCE PHOTOGRAPHS

	**Photograph 1 (facing W):** Mill pond to the north of Area 1.
	**Photograph 2 (facing N):** Grade II listed mill building south of the mill pond in Area 1.
	**Photograph 3:** Inside mill building showing thick concrete floors.

	**Photograph 4:** Water wheel present inside the mill building.
	**Photograph 5 (facing E):** Central portion of Area 1 showing the timber store (left) and office building / warehouse (right).
	**Photograph 6 (facing SE):** Northern end of the timber store with the traditional stone built barn behind.

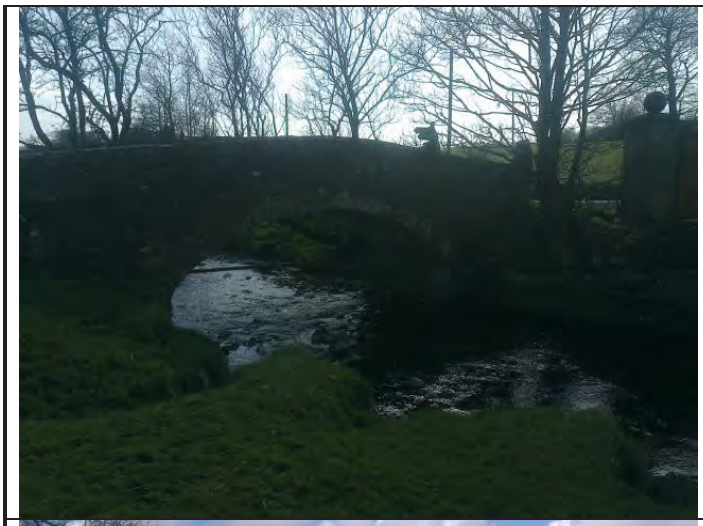
	**Photograph 7 (facing N):** Small buildings adjoining the barn along the northern site boundary with corrugated asbestos roof.
	**Photograph 8 (facing SE):** Barn and warehouse building on Area 1.
	**Photograph 9 (facing N):** Warehouse building on Area 1.

	**Photograph 10 (facing W):** One of the drying kilns identified on Area 1.
	**Photograph 11 (facing E):** Electricity substation on the northern boundary of Area 1.
	**Photograph 12 (facing NW):** Open sided timber store to the south of Area 1.

	**Photograph 13 (facing S):** Large warehouse to the south of Area 1 with the open-sided timber store seen behind.
	**Photograph 14:** Services noted on Area 1.
	**Photograph 15:** Services noted on Area 1.

	**Photograph 16 (facing N):** Discarded oil drums noted along the central northern boundary.
	**Photograph 17 (facing W):** Steep sided plateau of Area 2.
	**Photograph 18 (facing NW):** Top of the plateau where horses are kept.

	**Photograph 19 (facing N):** Steep side on northern side approximately 10m above the surrounding area.
	**Photograph 20 (facing SE):** Grass and trees currently present on Area 3.
	**Photograph 21 (facing N):** Chipping Brook running through Area 3.

	**Photograph 22 (facing S):** Footbridge from Longridge Road onto Area 4.
	**Photograph 23 (facing N):** Area 3 grassed and used for grazing sheep.
	**Photograph 24:** Small area of tarmac near to site entrance.

	**Photograph 25 (facing N):** Electricity pylon running though Area 4.
	**Photograph 26 (facing W):** Grass and trees on Area 5.
	**Photograph 27 (facing N):** Footpath crossing Area 5.

	**Photograph 28 (facing E):** Chipping Brook running through Area 5 with bridge across.
	**Photograph 29:** Drain noted onsite.
	**Photograph 30 (facing N):** Overhead electricity pylon noted on Area 5.

APPENDIX D

TRIAL HOLE LOGS

Area 2

Trial Hole TH1

Depth (m)	Strata
0.00 to 0.50	Dark brown organic silty CLAY with inclusions of coarse orange sand and rare coal fragments (Topsoil).
Hand auger complete at 0.50m. No groundwater encountered.	

Trial Hole TH2

Depth (m)	Strata	
0.00 to 0.30	Dark brown organic silty CLAY with inclusions of coarse orange sand and rare coal fragments (Topsoil).	
0.30 to 0.50	Orangish brown friable sandy CLAY with black streaks.	
Hand auger complete at 0.50m. No groundwater encountered.		

Area 4

Trial Hole TH6

Depth (m)	Strata	
0.00 to 0.40	Brown friable silty sandy CLAY with some rootlets rare fine to medium gravel. Orange/red sandstone obstruction at 0.40m.	
Hand auger complete at 0.4m. No groundwater encountered.		

Trial Hole TH7

Depth (m)	Strata	
0.00 to 0.50	Greyish brown friable silty sandy CLAY with some rootlets rare fine to medium gravel. Orange/red sandstone obstruction at 0.50m.	
Hand auger complete at 0.5m. No groundwater encountered.		

Area 5

Trial Hole TH3

Depth (m)	Strata
0.00 to 0.40	Brown clayey silty SAND with some organic inclusions and fine roots.
0.40 to 0.50	Soft silty very clayey SAND. Clay content increases with depth.
Hand auger complete at 0.50m. No groundwater encountered.	

Trial Hole TH4

Depth (m)	Strata
0.00 to 0.40	Wet brown silty very sandy CLAY with abundant rootlets.
0.40 to 0.50	Slightly clayey gravelly SAND. Gravel is fine to medium, subangular to subrounded.
Hand auger complete at 0.50m.	

Trial Hole TH5

Depth (m)	Strata	
0.00 to 0.50	Brown friable silty sandy CLAY with some rootlets rare fine to medium gravel.	
Hand auger complete at 0.5m. No groundwater encountered.		

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