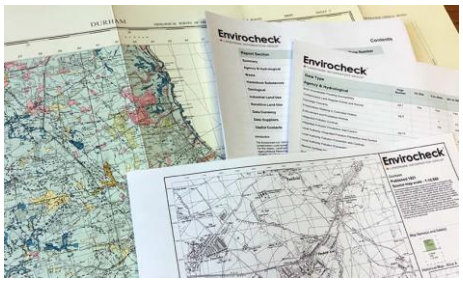



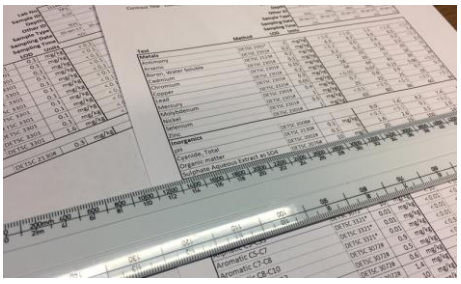

Phase 1: Desk Study

l'Anson Site, Dalton Industrial Estate

l'Anson Bros. Ltd.

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PHASE 1 DESK STUDY

I'ANSON SITE, DALTON INDUSTRIAL ESTATE

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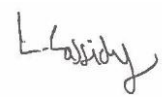
APPENDICES

Revision	Date	Prepared By	Signed
Final	March 2019	J Currie *Engineering Geologist*	
		Checked By	
		L Cassidy *Environmental Engineer*	
		Approved By	
		R Woods *Principal Geotechnical Engineer*	

1 EXECUTIVE SUMMARY

Site Address	Dalton Ln, Dalton Industrial Estate, Thirsk YO7 3HR
Site Description	The desk study area is located on a parcel of land immediately south of Dalton Lane. The site is rectangular shaped and has a mostly flat and even topography. The site is currently undeveloped and consists of an open grass field. The site is bounded to the north and east by hedges and is unbounded to the south and west.
Site History *On Site* *Offsite*	 The earliest maps (1856) show that the site was undeveloped and it has remained so throughout its documented history. From the 1950s onwards, an airfield was shown to be present to the south of the site.
Proposed End Use	The proposed development is outlined to be commercial.
Environmental Setting *Landfill & Waste* *Regulated Industries* *Geology* *Hydrogeology* *Hydrology* *Flooding* *Radon Gas*	 There are no Landfills or any facilities handling or managing waste within 500m of the site. There are two contemporary trade directory entries within 250m of the site. There are no fuel station entries within 500m of the site. The solid geology beneath the site is likely to mostly comprise Mercia Mudstone Formation of sandstone. The drift deposits on site are likely to comprise of silty, sandy and gravelly Glacial Till. Using the Environment Agency's Policy and Practice for the Protection of Groundwater the solid geology beneath the site is classified as a Secondary Aquifer – B. The overlying drift is classified as an Unproductive Strata. The site does not lie within a source protection zone. There are fifteen Ground Water Abstractions located within 1km of the site. The nearest surface water feature is Cod Beck located 142m north-west of the site. The Envirocheck Report states the site is at risk of Extreme Flooding from Rivers and the Seas without defences, and there are no flood defences, flood water storage areas or areas benefiting from flood defences and flood storage present within 250m of the site. The site is not in a Radon Affected Area, as less than 1% of properties are above the Action Level. No radon protection measures are necessary for new buildings or extensions on the site.
Preliminary Geotechnical Assessment	Given the expected ground conditions noted in the sections above, the use of piled foundations for the new development is anticipated at present. Assuming a piling option is adopted, reference should be made to CIRIA documentation PR86 and PG6 for pile design and installation and the recommendations of the Federation of Piling Specialists on the requirements of pile design. Allowance should be made for the exploratory boreholes to exceed the pile end-bearing ultimate depth by 5m.
Preliminary Mining Assessment	The site is not located within a Coal Mining Affected Area, therefore no further investigation is required to mitigate against risks from Coal Mining.
Preliminary Contamination Assessment	The desk study has shown that the site may have been exposed to some minimal contamination, with construction/demolition waste and possibly oils or fuel from vehicle spills the most likely source local to the structures. Asbestos may also be present on the site from building materials utilised at adjacent sites.
Potential Sources of Ground Gas	Some made ground is expected on site, therefore ground gas assessment is recommended due to the nature of the development.
Phase Two Recommendations	• A series of cable percussive boreholes with insitu testing and samples. • 3no rotary cored boreholes to ca. 6.00m into the bedrock • Gas monitoring comprising six visits over three months. • A series of machine dug trial pits for sampling, insitu soakaways and CBRs. • Geotechnical testing. • Chemical testing.

2 INTRODUCTION AND SCOPE OF INVESTIGATION

Solmek were instructed by l'Anson Bros. Ltd. to undertake a desk study on a parcel of land at Dalton Ln, Thirsk YO7 3HR. The proposed development is outlined to be commercial.

The following steps may be required in the investigation and remediation of potentially contaminated land:

Phase 1: Desk Study
Phase 2: Intrusive Investigation
Phase 3: Remediation Statement
Phase 4: Validation Reports

Phases 1 and 2 are generally required in the redevelopment of most sites. Phases 3 and 4 are subject to the findings of the initial stages. This report represents Phase 1 of the site investigation.

The purpose of this Phase 1 Desk Study is to evaluate likely ground conditions and significant environmental issues at the site, and to plan the scope of subsequent phases of investigation.

This report may be regarded as a Preliminary Risk Assessment in accordance with the Environment Agency's guidance document *Model Procedures for the Management of Land Contamination* (CLR 11, 2004).

This Phase 1 Desk Study has been undertaken with due regard to current contaminated land guidance issued by the Royal Institution of Chartered Surveyors (RICS) together with BS 10175:2011+A1:2013, *"Investigation of Potentially Contaminated Land - Code of Practice"* and relevant sections of BS 5930: 2015, *"Code of Practice for Ground Investigations"*.

The objectives of the investigation are to:

- determine the land use history of the site from an inspection of available Historical Maps;
- determine the environmental setting of the site from available sources;
- determine whether past mining may have had an influence on the site;
- determine whether the site has previously been used for purposes that may have given rise to significant ground contamination;
- provide recommendations for further investigation.

3 SITE WALKOVER AND DESCRIPTION

3.1 General

The centre of the site is located at OS Grid Ref 441810, 476290 and covers an area of approximately 4.14Ha. The area is located at Dalton Ln, Thirsk YO7 3HR.

The preliminary site inspection was undertaken on the 4th March 2019 and site photographs are presented in Appendix A.

3.2 Site Description

The desk study area is located on a parcel of land immediately south of Dalton Lane.

The site is rectangular shaped and has a mostly flat and even topography. The site is currently undeveloped and consists of an open grass field.

The site is bounded to the north and east by hedges and is unbounded to the south and west.

3.3 Off Site Features

A road runs along the sites northern boundary. Industrial premises are located to the northeast. The field continues to the south and west, with industrial units present beyond this.

4 SITE HISTORY

4.1 Map Descriptions

In order to determine the history of the site, previous editions of Historical Maps and Ordnance Survey Plans were inspected. The Historical Maps are presented in Appendix B.

Table 1 presents a summary of the history of the area which includes plots from 1856 to 2019. The summary focuses on the historical land uses and changes relevant to the site and the proposed end use. Measurements are taken from the nearest boundary of the site and all distances quoted are approximate.

TABLE 1: SUMMARY OF SITE HISTORY

OS Map Edition	On-site Features	Off-site Features
1856 1:10,560	The site is in an agricultural setting with field boundaries located running north to south in the centre of the site and running east to west in the northern part of the site. A track and a possible fence line are located running across the northern portion of the site.	The area surrounding the site consists of agricultural fields. Dalton Lane runs along the northern boundary of the site. Cod Beck located approx. 200m north of the site.
1892 1:10,560 And 1892 1:2,500	No apparent changes.	No significant changes.
1911 1:2,500 And 1912-1914 1:10,000	No apparent changes.	No significant changes.
1956 1:10,000	No apparent changes.	Area to the south labelled as Airfield, the area is blank, information is likely to have been omitted.
1972 1:10,000	No apparent changes.	Area to the south labelled as Airfield, the area is blank, information is likely to have been omitted.
1978 1:2,500	No apparent changes.	Airfield is labelled as disused and details are now shown. A runway is located approx. 100m west and 100m south of the site. Cod Beck Mill is located approx. 100m north-east of the site. Silos and a pond are noted to be present within Cod Beck Mill. Buildings and a roadway are located immediately east of the site. Poultry Houses are located approx. 150m south-west of the site, adjacent to the runway.
1980-1981 1:10,000	No apparent changes.	No significant changes.
1994 1:2,500	No apparent changes.	No significant changes.
1999 1:10,000	No apparent changes	Significant development within Dalton Industrial Estate approx. 500m south of the site.
2019 1:10,000	No significant change.	No significant change.

4.2 Potential Contamination Sources Identified via Historical Plans

Contamination from historical land uses within a 250m radius of the site have been identified; however these are expected to be minimal if present at all:

Made ground from materials used to infill depressions and form a level area for access or building. This may include brick, concrete, timber, ash, slag, coal and metals.

Construction/demolition waste from construction and demolition immediately around the site over the documented history. This may include brick, concrete, timber, asbestos and metals. Historically road construction used ash as a sub-base material.

Agricultural from pesticides and fertilizers used on the ground to grow and protect crops. Along with possible fuel leakages from farm vehicles.

5 ENVIRONMENTAL SETTING

5.1 Information Sources

The environmental setting of the site was determined through reference to the following:

- Envirocheck Report (including historical map extracts)
- British Geological Survey (BGS): 1:50 000 geological map series sheet 52 Thirsk Solid and Drift (1992)
- BRE Publication BR211 Radon: Guidance on Protective Measures for New Dwellings

5.2 Landfill and Waste

There are no Landfills or any other facilities handling or managing waste located within 500m of the site.

5.3 Regulated Industries

The Envirocheck Report indicates that there are two active Contemporary Trade Directory Entries located within 250m of the site. the sites are:

- David Pullan Transport Ltd., Dalton Lane located 161m north-east of the site. The site is classified as 'Road Haulage Services'.
- Cod Beck Blenders Ltd., Cod Beck Industrial Estate, Dalton Lane located 199m north-east of the site. The site is classified as 'Chemicals and Allied Products'.

The Envirocheck Report indicates that there are no Recorded Fuel Sites located within 500m of the site.

The Envirocheck Report indicates that there are six records of Integrated Pollution controls located within 500m of the site. All entries relate to Gallows Green Services Ltd., Cod Beck Industrial Estate, Dalton Lane, located 182m north-east of the site. The description is '4.5 A (D) Inorganic Chemical processes within the Chemical Industry.

The Envirocheck Report indicates that there are seven records of Integrated Pollution Prevention and Control entries located within 500m of the site. There is one effective record within 200m of the site. This is located at Faccenda Foods Limited, Eldmire Farm, Dalton. The activity description is given as Intensive Farming; greater than 40,000 Poultry.

The Envirocheck Report indicates that there are two Local Authority Pollution Prevention and Control sites located within 500m of the site, with only one permitted entry located within 500m of the site. The entry is located 183m north-east of the site at John Smith & Sons, Dalton Industrial Estate. The description is listed as PG1/1 Waste oil burners, less than 0.4MW net rated thermal input.

The Envirocheck Report indicates that there are no sites dealing with Hazardous, Explosive or Radioactive Substances located within 500m of the site.

The Envirocheck Report indicates that there are no Substantiated Pollution Incidents located within 500m of the site.

The Envirocheck Report indicates that there are no Sites Determined as Contaminated Land under Part 2A EPA 1990 entries located within 500m of the site.

5.4 Geology

The site is shown to be underlain by solid geology of Mercia Mudstone Group Formation consisting of reddish-brown mudstone with subordinate siltstone and sandstone.

BGS mapping indicates that there are three possible types of superficial deposits located beneath the site. the majority of the site is expected to consist of Breighton Sand Formation which is made up of silty sand and gravel. However, the north east of the site is mapped as the Alne Glaciolacustrine Formation consisting of clay and silt. An area of alluvium associated with Cod Beck is mapped immediately north of the site.

5.5 Mining & Quarrying

The site is not located within a Coal Mining Affected Area, therefore no further investigation is required to mitigate against risks from Coal Mining.

The Envirocheck Report indicates that there are no BGS recorded Mineral Sites located within 1km of the site.

5.6 Geological Hazards and Instability

The Envirocheck report presents the maximum hazard ratings of ground stability hazards located on site as follows:

TABLE 2: POTENTIAL GROUND STABILITY HAZARDS

Hazard	Description	Hazard Potential
Collapsible Ground	Some kinds of natural deposit can collapse, i.e. they undergo a rapid reduction in volume, when a load is placed on them and/or they become saturated with water. Such collapse can cause damage to property. A property affected by collapse of even a few millimetres may experience the following kinds of problem: • structural damage to foundations and to the fabric of the building • damage to underground service connections, i.e. water, gas or electricity • cracks in the walls, floors or ceilings of a building • tilting of walls or of entire buildings	Very Low
Compressible Ground	Certain ground materials may compress if loaded by overlying structures or if groundwater level changes, resulting in depression of the ground and disturbance of foundations. Peat, alluvium and laminated clays are common types of deposits associated with various degrees of compressibility. A property affected by compressible ground may experience the following problems: • structural damage to foundations and to the fabric of the building • service connections (water, gas and electricity) may strain or break • cracks in the walls, floors or ceilings of a building • tilting of walls or buildings	Moderate
Ground Dissolution	Ground dissolution occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits. The three common rocks that dissolve are rock-salt, gypsum and limestone (including chalk). Subsidence caused by sinkhole formation can cause structural damage. Properties affected by dissolution may experience a range of problems including: • cracking of walls • structural tilting or distortion with minor to major structural damage • partial collapse • damage to infrastructure such as roads, driveways, pipes and drains	No Hazard

Landslides	Landslides occur ultimately due to the effect of gravity, although other factors such as geology, topography, weathering, drainage and man-made construction can all contribute to the overall stability of a slope. Common causes of damage due to landslide relate to: • removal of ground that is supporting a property • stretching or compression of a building as the ground moves • material falling onto the property from above • material flowing into the property from upslope	Very Low
Running Sand	Some rocks can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage. Running sand hazards can occur where excavations in the sand go below the water table, or around leaking drains or mains water supply pipes. A property affected by running sand may experience the following problems: • access paths and roads may be broken and disrupted • service connections to water, gas and electricity supplies may break • structural damage to foundations and to the fabric of the building if uneven sinking occurs under the foundations	Very Low
Shrinking or Swelling Clay	Many soils contain clay minerals that absorb water when wet, causing increase in volume (swell), and lose water as they dry, causing decrease in volume (shrink). This shrink–swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and local drainage). A property affected by shrink–swell may experience the following problems: • cracking in walls, concrete floors, paths or roads • upward bulging of solid floors • tilting of walls or floors	Low

Hazard potential is given as according to BGS GeoSure datasets, based on assessment by BGS geologists and geochemists.

5.7 Hydrogeology

Using the Environment Agency's Policy and Practice for the Protection of Groundwater the solid geology beneath the site is classified mostly as a Secondary Aquifer – B with a small area designated as a Secondary Aquifer - A. The overlying drift is classified as an Unproductive Strata.

The groundwater vulnerability is categorised as Low, due to 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.

The site does not lie within a Source Protection Zone.

The Envirocheck Report indicates that there are fifteen Water Abstractions located within 1km of the site. The nearest of these is located 255m southwest of the site with the water used for General Farming and Domestic.

5.8 Hydrology

The nearest surface water feature is Cod Beck, located 142m north-west of the site.

The Envirocheck Report states there are six Licensed Discharge Consents entries within 500m of the site. The nearest of these is located 17m north of the site with Trade Discharge – Process Water being discharged into a freshwater stream, which is an unnamed tributary of Cod Beck.

The Envirocheck Report states there are no Records of Water Industry Act Referrals (potentially harmful discharges to the public sewer) located within 500m of the site.

5.9 Flooding

The Envirocheck Report states the site is not at risk of Flooding from Rivers and the Seas without defences, however it is at risk of Extreme Flooding from Rivers and the Seas without defences, whilst land 6m to the northwest is shown to be at risk of Flooding from Rivers and the Seas without defences.

The Envirocheck Report indicates that there are no flood defences, flood water storage areas or areas benefiting from flood defences and flood storage present within 250m of the site.

A comprehensive flood risk assessment should be sought from a specialist to quantify the existing risk of flooding on the site.

5.10 Sensitive Land Use

The site does not lie within 2km of any form of Designated Environmentally Sensitive Sites or Protected Areas.

5.11 Radon Gas

The site is not in a Radon Affected Area, as less than 1% of properties are above the Action Level.

In accordance with the procedure described in BRE Publication BR211 Radon: Guidance on Protective Measures for New Dwellings, no radon protection measures are necessary for new buildings or extensions on the site.

6 CONCEPTUAL SITE MODEL

6.1 General

Based on the information presented in the preceding Sections, and in accordance with the CLR11 guidance noted in Section 1, a Preliminary Conceptual Site Model has been produced.

The main features of the model are discussed in the following sections together with preliminary recommendations where appropriate.

6.2 Likely Ground Conditions

It is expected that, based on available information, ground conditions are likely to be made ground comprising topsoil with limited possibility made ground to be present. The drift deposits on site are likely to comprise of silty sand and gravel with areas of clay, silt and alluvium also possible overlying a and mudstone bedrock.

6.3 Potential Buried Obstructions

Based on the site history, buried obstructions are unlikely across the site, but cannot be wholly discounted. Natural cobbles are the most likely obstructions.

6.4 Mining Assessment

The site is not located within a Coal Mining Affected Area, therefore no further investigation is required to mitigate against risks from Coal Mining.

6.5 Preliminary Geotechnical Assessment

Given the expected ground conditions noted in the sections above and the proposed heavily loaded commercial structure, the use of piled foundations for the new development is anticipated at present.

Assuming a piling option is adopted, reference should be made to CIRIA documentation PR86 and PG6 for pile design and installation and the recommendations of the Federation of Piling Specialists on the requirements of pile design. Allowance should be made for the exploratory boreholes to exceed the pile end-bearing ultimate depth by 5m.

Given the flood risk potential for the site (Section 5.9) allowance for possibility of shallow or surface groundwater needs to be considered during foundation design and construction.

For the proposed new road – which is currently agricultural fields – the foundations will consist of suitably compacted and graded fill to be used to form a sub-base, base and binding course beneath the road surface course. The road design and choice of materials should be undertaken in line with the guidance "Specification for Highway Works".

The above suggestions should be regarded as tentative until Phase 2 intrusive works are undertaken and information is available regarding design loads and development layout.

6.6 Preliminary Contamination Assessment

The desk study has shown that the site may have been exposed to some minimal contamination, with construction/demolition waste and possibly oils or fuel from vehicle spills the most likely source local to the structures. Asbestos may also be present on the site from building materials utilised at adjacent sites.

In view of the current and future site use, chemical contamination testing is considered necessary. The following chemical testing suite should be considered for selected soil samples:

TABLE 3: POTENTIAL PRIORITY CONTAMINANTS

Inorganic Contaminants	Organic Contaminants
Antimony, Arsenic, Boron, Cadmium, Chromium, Lead, Mercury, Nickel, Zinc, Selenium, Free Cyanide, Soluble Sulphate, pH, Asbestos	Phenol, Organic Matter, speciated PAH

It should be noted that the above potential contaminants are considered to be commonly associated with the specified past land uses of the site, and adjacent land use. Risk assessment should be undertaken for contamination identified during intrusive investigation.

Potential pathways which link the potential contaminants to end users of the site and controlled waters (receptors) include the following:

- Ingestion of soil (outdoors) / dust (indoors)
- Skin contact with soil (outdoors) / dust (indoors)
- Inhalation of dust (outdoors and indoors)
- Contamination via buried water pipes
- Surface water run-off, including via existing drainage infrastructure
- Downward infiltration of leachable contaminants to groundwater

6.7 Potential Sources of Ground Gas

Ground gases such as carbon dioxide and methane can be classed as a form of contamination. Potential sources of ground gases include:

- Made Ground
- Quarries, Infilled Clay Pits & Infilled Ponds
- Underlying Natural Strata (alluvium, peat and chalk)
- Petrol re-fuelling sites (which also includes Volatile Organic Compounds)
- Landfill (on and off-site)
- Coal measures

Based on historical map evidence and consideration of the sites environmental setting the table below shows a preliminary comparison of *consequence* against *probability* where ground gas is considered a potential threat to human health.

TABLE 4: POTENTIAL GROUND GAS POLLUTION LINKAGES

Potential Sources	Potential Pathway	Receptor
Made ground (CO_2, CO and CH_4).	Ingress and Accumulation into buildings from vertical and horizontal migration Passage through permeable soils and shallow rock	Future users of site are likely to include adults and children. Construction workers (in particular utility workers).
Preliminary Comparison of Consequence verses Probability		
	Classification	**Justification**
Probability *(Based on Table 8.1, CIRIA C665, 2007)*	LOW LIKELIHOOD	Ground gas from limited made ground.
		No landfills located within 500m radius of the site.
		No coal mining in area.
Consequence *(Based on Table 8.2, CIRIA C665, 2007)*	MILD	Commercial development.
	Risk	**Details**
Consequence vs. Probability *(Based on Table 8.3, CIRIA C665, 2007)*	LOW RISK	It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that any such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild. Investigation (if not already undertaken) is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the long term. *(Based on Table 8.4, CIRIA C665, 2007)*

Given the conditions noted above a ground gas assessment is considered necessary for the site to observe standing groundwater levels and to allow measurements to be made of hazardous gases and/or contamination levels in groundwater. Monitoring should be undertaken following site works on an initial minimum of four occasions over one month.

6.8 Risk Assessment for Contaminated Land

As part of this Phase 1 Desk Study, a preliminary conceptual model and risk assessment is produced. This assessment should be revised following the Phase 2 Site Investigation outlining a qualitative risk assessment. Should there be unacceptable risks to the various receptors/end-users following the Phase 2 works, then a remediation strategy may be required to outline measures to satisfy Part 2A of the Environmental Protection Act (1990). The above measures are in line with CLR11 – Model Procedures.

The results of the chemical contamination testing as part of the Phase 2 investigation should be compared to a current Land Quality Management (LQM) – Suitable 4 Use Levels (S4UL) December 2014.

6.9 Conceptual Site Model

The conceptual model collates the salient aspects of the site to form a model which should enable comparison after fieldwork and testing. This model identifies the potential pollution linkages that may influence the proposed development and geotechnical considerations.

The risk ratings are based on the current potential liabilities and likely potential future liabilities. The risks posed by the geotechnical and contamination aspects of the site will be revised following site works, and any mitigating action required added.

The Preliminary Conceptual Model has been undertaken in accordance with CIRIA C552. The Preliminary Conceptual Model assesses the consequence and the likelihood of a risk being realised to provide a risk classification, which is then used to produce the Preliminary Conceptual Model. Full details of the tables used to assess consequence, likelihood and risk classification are presented in Appendix E.

TABLE 5: PRELIMINARY CONCEPTUAL MODEL

Source	Pathway	Receptor	Risk Rating	Comments
Asphyxiating or explosive ground gases • Made ground • No landfills within 250m • Not in Radon Affected Area	**Ground gas migration** • Migration through permeable soils • Inhalation	**Future site users** • Transient adult workers	Low	Gas monitoring recommended. Initial four visits over one month proposed.
		Users during development • Construction workers	Low	
Areas of contamination • Potential contaminants in made ground • Potential demolition/construction waste	• Inhalation	**Future site users** • Transient adult workers	Low	Mitigated by proposed structure hard standing – no gardens proposed.
		Users during development • Construction workers	Moderate /Low	Contamination testing required to determine risks posed during construction
	• Inhalation • Dust ingestion	**Users of surrounding sites** • Transient adult workers	Low	Potential low risk during construction from dust generation. Contamination testing required to quantify the risks.
	• Leaching of mobilised contaminants	**Solid geology** • Secondary Aquifer – B	Very Low	Low sensitivity aquifer located beneath low permeability drift deposits
		Drift geology • Unproductive Strata	Very Low	Low sensitivity aquifer unlikely to contain significant groundwater
	• Drainage • Lateral migration • Accumulation of contaminated sediment	**Surface water features** • River 142m northwest	Low	Very limited potential for contamination from site to reach surface water, either via surface run-off or groundwater movement.
	• Uptake via roots and leaf surfaces	**Vegetation** • None proposed	Very Low	No potential for Vegetation impact as no vegetation is proposed.
Areas of contamination above service fabric or BRE Special Digest 1 thresholds	• Direct contact	**Construction Materials** • Concrete	Moderate /Low	pH and sulphates to be assessed during Site Investigation
	• Direct contact	**Construction Materials** • Service Fabric	Moderate /Low	Consideration to be given to Pipe Material Table (Appendix D) during Site Investigation

7 PROPOSED PHASE TWO INTRUSIVE WORKS

A Phase 2 Site Investigation should be undertaken to verify the assumptions made in the Preliminary Conceptual Site Model and to provide data for foundation design.

An outline ground investigation strategy is summarised below, based on the preliminary conceptual site model and information obtained during the desk study.

7.1 Site Investigation Rationale

The Conceptual Model highlights that there is potential for contamination on the site. Therefore, an intrusive investigation should be undertaken with the sampling strategies outlined within BS10175:2011 +A1:2013 and CLR4:1994. These strategies can be considered as:

- Non targeted (BS10175) – If no obvious hotspots or potential sources of contamination have been outlined in the desk study, it would be recommended to utilise a stratified random pattern of sampling locations.
- Targeted (CLR4) – If a possible hotspot is suspected on the site, it is recommended to adopt a targeted approach to sample the immediate vicinity of the hotspot. Highly focussed sampling consisting of several samples within the area of the hotspot may be necessary to delineate the extent of the hotspot.

These strategies can be employed either separately or in conjunction and any site investigation should be individually tailored to each site.

The density of sampling required is defined within BS10175 which notes that the density required is dependent on a number of factors including confidence and robustness required, and contaminants, pathways and receptors present.

7.2 Site Specific Sampling Rationale

The analysis of historical maps and the Conceptual Model did not highlight any defined hotspots on the site. Therefore, a non-targeted approach should be utilised, with sample locations arranged evenly across the site in a defined pattern, in order to provide maximum site coverage.

The chemical testing proposed for the site is outlined in Section 6.6.

7.3 Proposed Methods of Investigation

The methods of investigation outlined within Table 5 are considered necessary to address the risks outlined within the Conceptual Model. The locations of these investigation positions will be set out in line with the proposed sampling methodology outlined in Section 7.2

TABLE 6: SITE INVESTIGATION RECOMMENDATIONS

Proposed method of investigation	Purpose	Comments
Hand dug trial pits	Hand dug trial pits to 1.20mbgl to ensure positions are clear of underground services.	To be undertaken prior to the drilling of all boreholes and following CAT scanning an service plan inspection.
A series of cable percussive boreholes to ca. 20.00mbgl prove rockhead depth.	• To determine shallow ground conditions. • To provide information for pile design. • To collect soil samples for geotechnical and chemical testing. • To observe soils profile, localised variations in materials and presence of groundwater.	• Ensure positions are CAT scanned and service plans inspected prior to any excavation. • Hand vanes to be taken in cohesive deposits. • SPT samples in granular strata and rock head. • Disturbed and jar samples to be undertaken for chemical testing.
Trial pitting to ca. 3.00mbgl	• To assess the shallow ground conditions and obtain samples for chemical testing. • To undertake insitu hand shear vanes. • To undertake soakaway tests and insitu CBR testing.	• Ensure positions are CAT scanned and service plans inspected prior to investigation. Trial pits required to accompany the boreholes.
Gas/groundwater monitoring wells	To observe standing groundwater levels and to allow measurements to be made of hazardous gases and/or contamination levels in groundwater.	Monitoring to be undertaken following site works on a minimum of four/six occasions.
Potentially a series of follow on rotary cored boreholes drilled ca. 6.00mbgl into the rock	To provide further information for potential pile design	Ensure positions are CAT scanned and service plans inspected prior to excavation.
Chemical testing	To allow the potential risks identified within the conceptual model to be addressed.	Chemical soils testing to cover potential priority contaminants from Table 2.
Geotechnical testing	To confirm material properties and to provide concrete classification of materials.	Tests may include sulphate analysis, pH, moisture content, Atterberg limit determination, particle size distribution tests and triaxial testing. Further tests may be required depending on the materials encountered.

SOLMEK

Appendix A
Drawings & Photographs

Contains Bing® Imagery ©Microsoft 2019

Title
Site Location Plan
Project
I'Anson Site, Dalton Industrial Estate
Client
I'Anson Bros
Date
March 2019
Fig No.
Figure 1
Scale
On map
Key

Approx. Site Boundary

N

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Title
Site Satellite Image
Project
I'Anson Site, Dalton Industrial Estate
Client
I'Anson Bros
Date
March 2019
Fig No.
Figure 2
Scale
Do Not Scale
Key

Approx. Site Boundary

N

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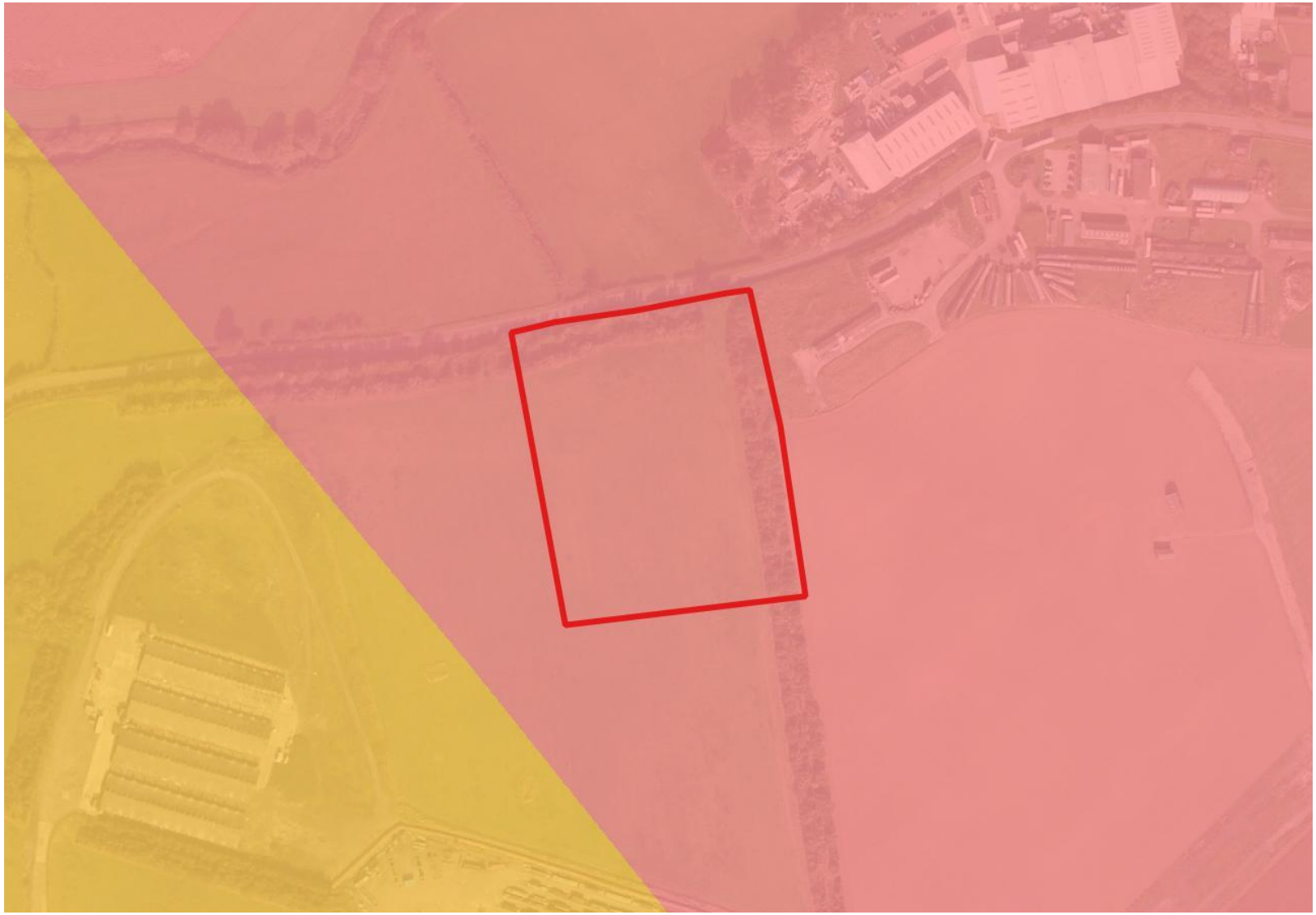

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Title

Solid Geology Map

Project

I'Anson Site, Dalton Industrial Estate

Client

I'Anson Bros

Date

March 2019

Fig No.

Figure 2

Scale

Do Not Scale

Key

- Approx. Site Boundary
- Mercia Mudstone Formation
- Sherwood Sandstone Group

N

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Figure 4: View looking west along the road to the north of the site.

Figure 5: View looking across the site towards the east.

Title	**Date**
Figures 4 & 5	March 2019
Project	
I'Anson Site, Dalton	
Client	
I'Anson Bros	

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Figure 6: View looking north through the site.

Figure 7: View looking south through the site.

Title	Date
Figures 6 & 7	March 2019
Project	
I'Anson Site, Dalton	
Client	
I'Anson Bros	

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Appendix B
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
Pylon
Electricity Transmission Line
Sloping Masonry
Cutting
Embankment
Standard Gauge Multiple Track
Road Under
Road Over
Level Crossing
Foot Bridge
Standard Gauge Single Track
Siding, Tramway or Mineral Line
Narrow Gauge
Geographical County
Administrative County, County Borough or County of City
Municipal Borough, Urban or Rural District, Burgh or District Council
Borough, Burgh or County Constituency
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

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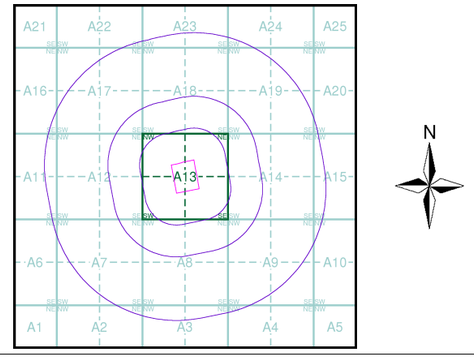
Historical Mapping & Photography included:

Historical Map - Slice A



Order Details

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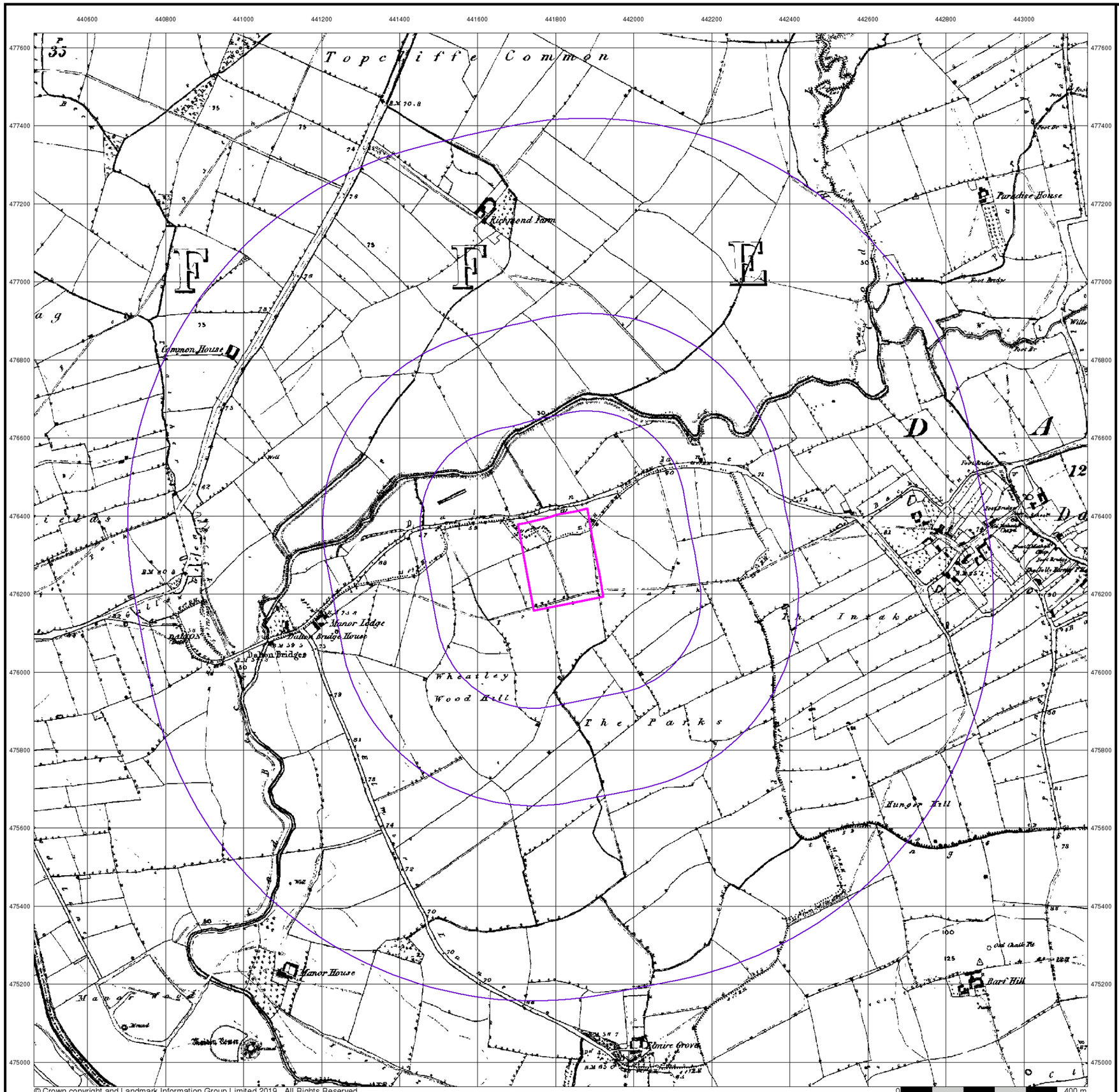
Customer Ref: S190224
National Grid Reference: 441810, 476290
Slice: A
Site Area (Ha): 4.14
Search Buffer (m): 1000

Site Details

Cod Beck Blenders, Cod Beck Mill Industrial Estate, Dalton Lane, Dalton, THIRSK, YO7 3HR

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



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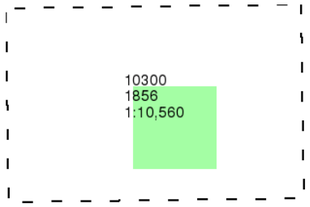
Yorkshire

Published 1856

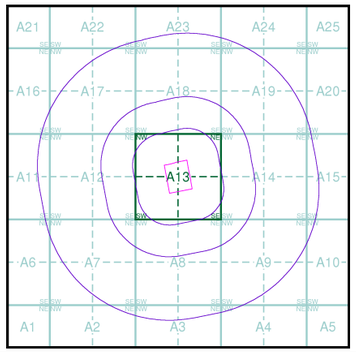
Source map scale - 1:10,560

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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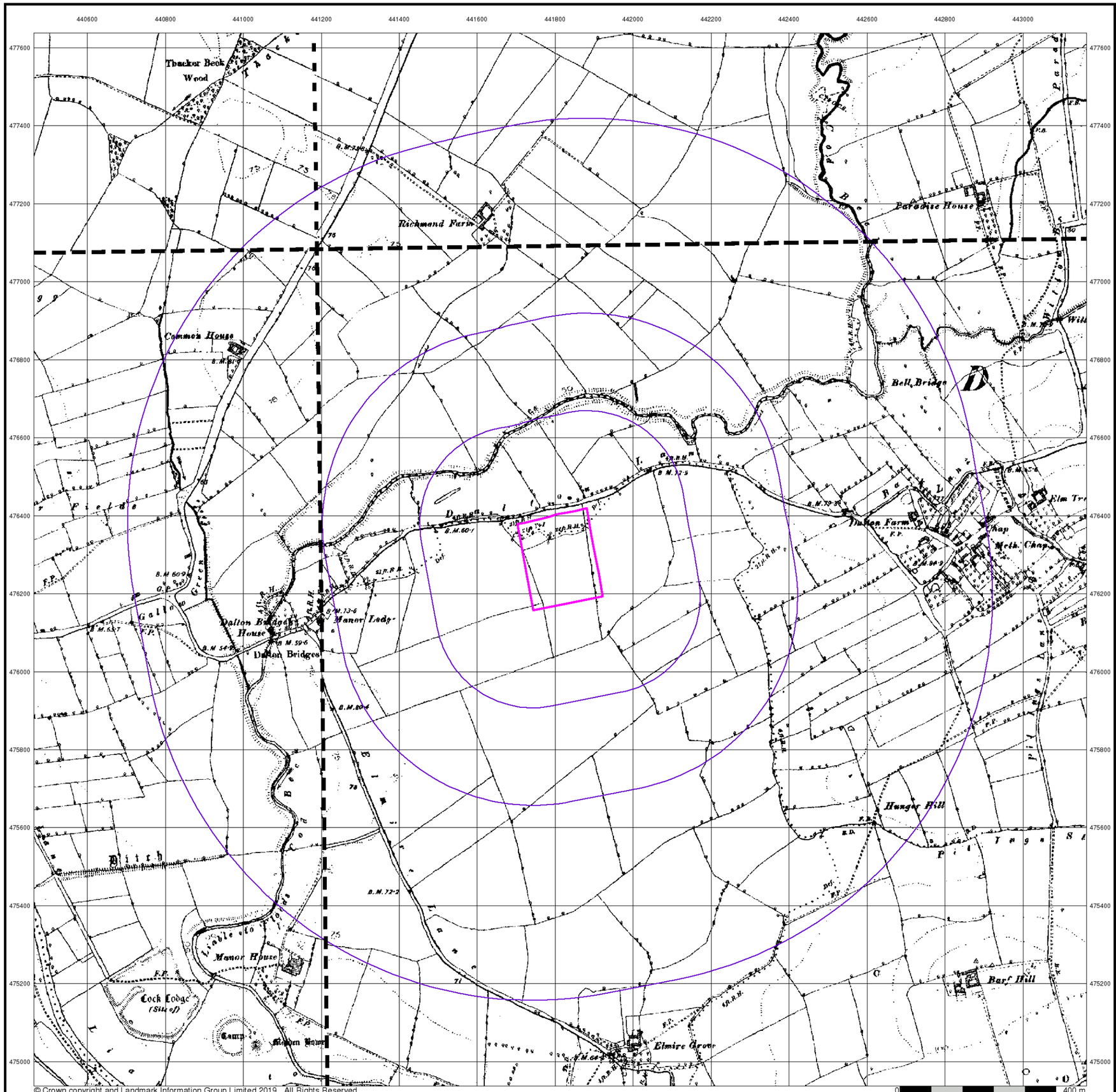


SOLMEK

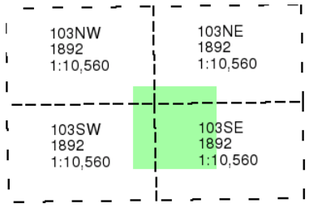
Yorkshire

Published 1892

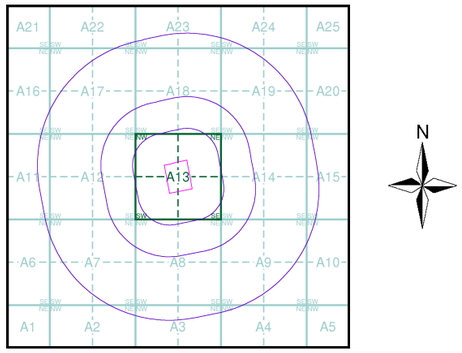
Source map scale - 1:10,560

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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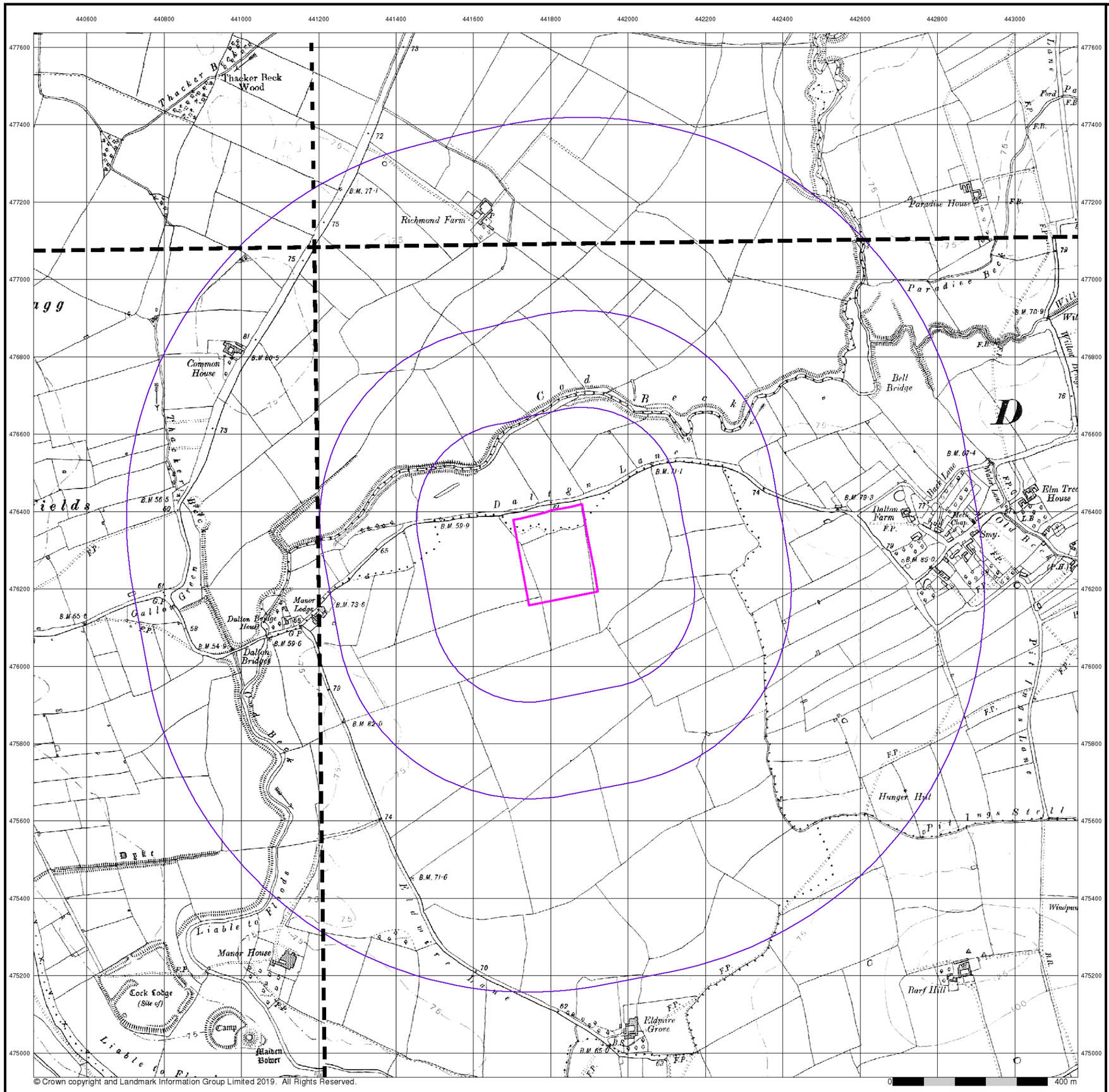

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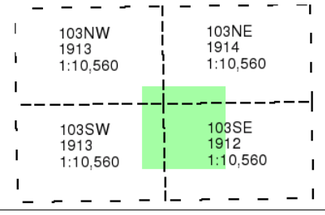
Yorkshire

Published 1912 - 1914

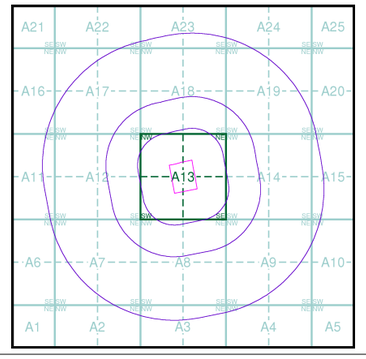
Source map scale - 1:10,560

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.

Map Name(s) and Date(s)



Historical Map - Slice A



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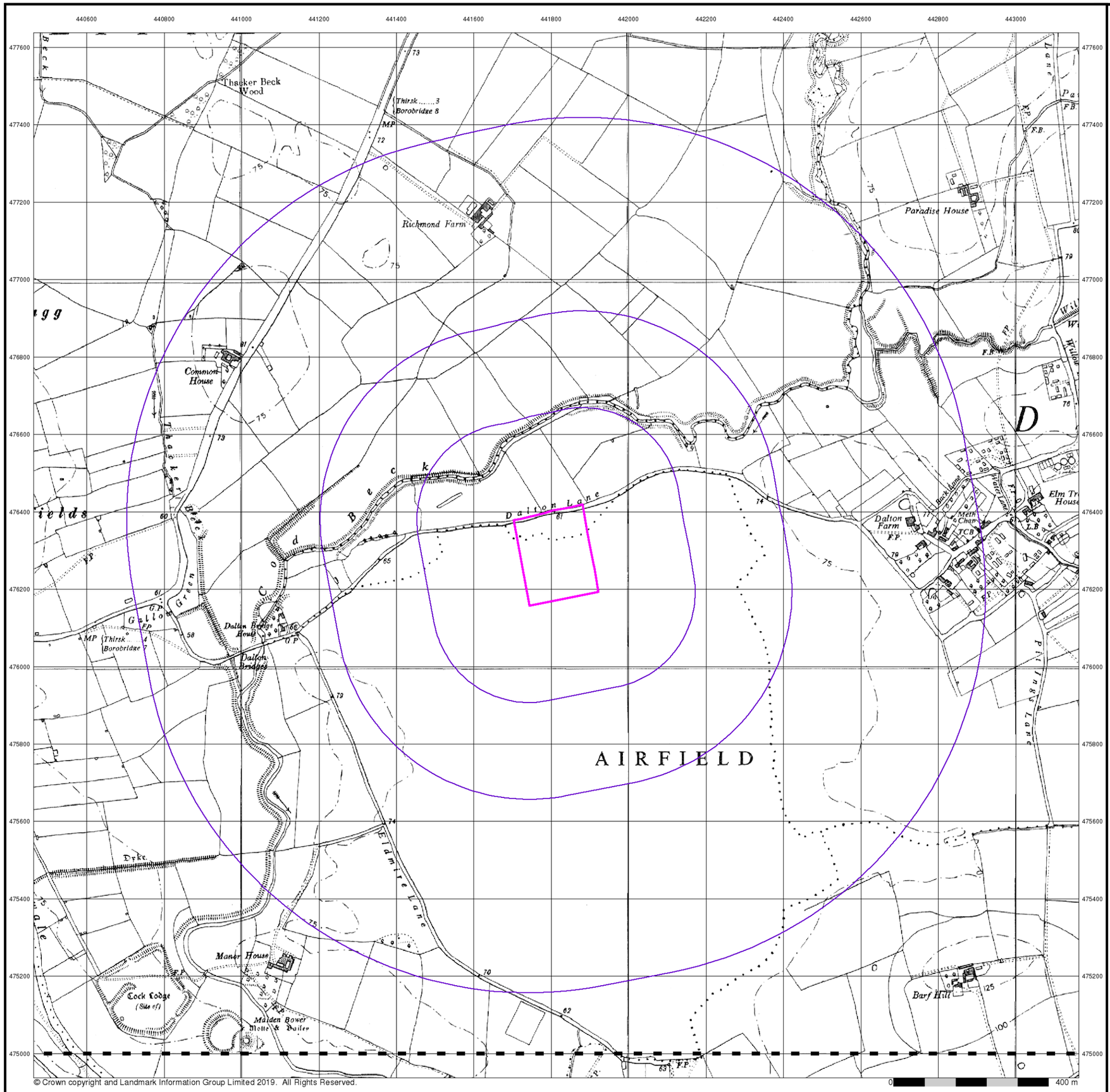

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Ordnance Survey Plan

Published 1956

Source map scale - 1:10,000

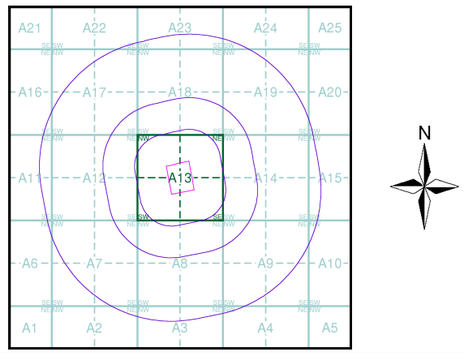
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some 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.

Map Name(s) and Date(s)

SE47NW
1956
1:10,560

SE47SW
1956
1:10,560

Historical Map - Slice A



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Site Area (Ha):	4.14
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Site Details

Cod Beck Blenders, Cod Beck Mill Industrial Estate, Dalton Lane, Dalton, THIRSK, YO7 3HR

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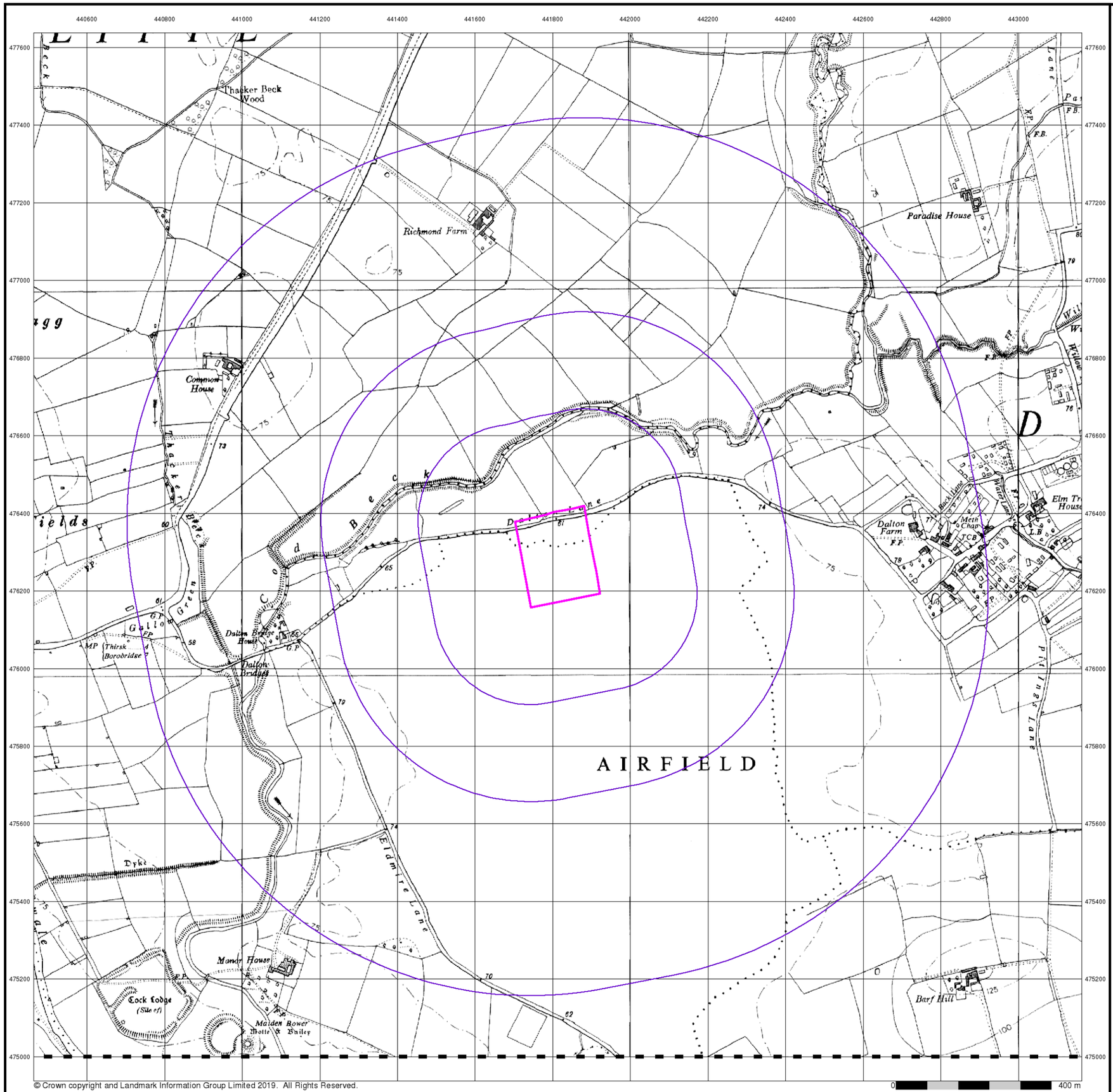

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Ordnance Survey Plan

Published 1972

Source map scale - 1:10,000

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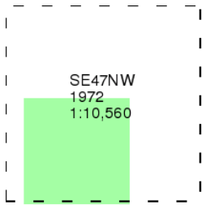
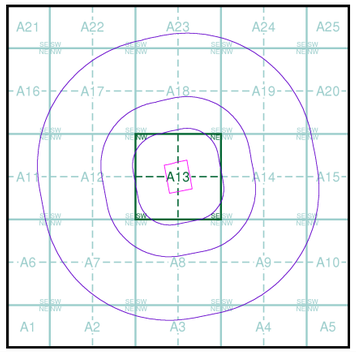
Map Name(s) and Date(s)



Historical Map - Slice A



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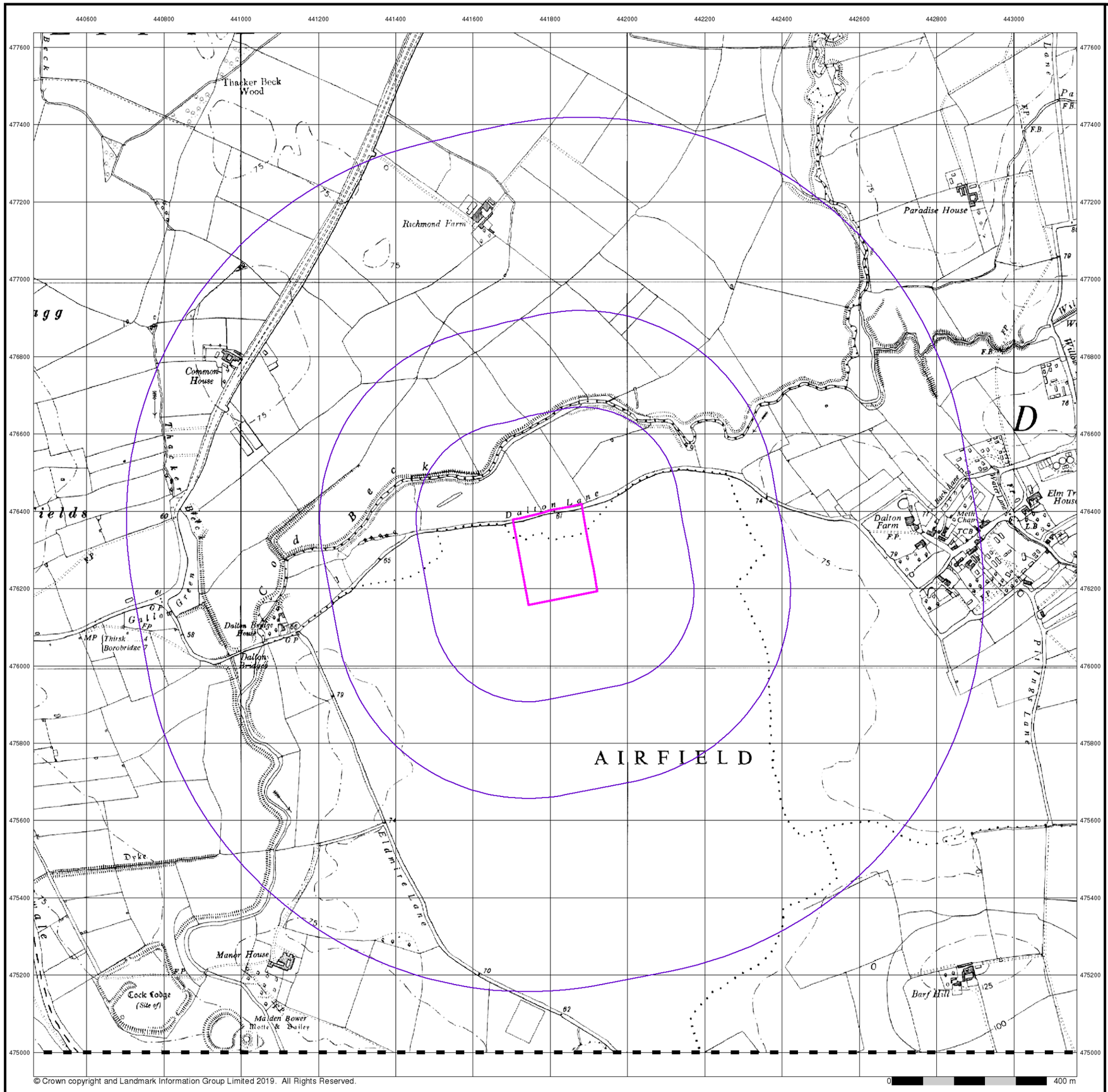

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Ordnance Survey Plan

Published 1975

Source map scale - 1:10,000

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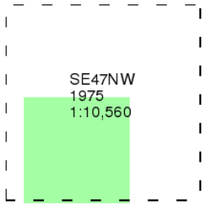
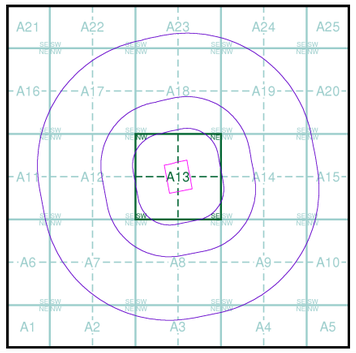
Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

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Customer Ref:	S190224
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Slice:	A
Site Area (Ha):	4.14
Search Buffer (m):	1000

Site Details

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Tel: 0844 844 9952
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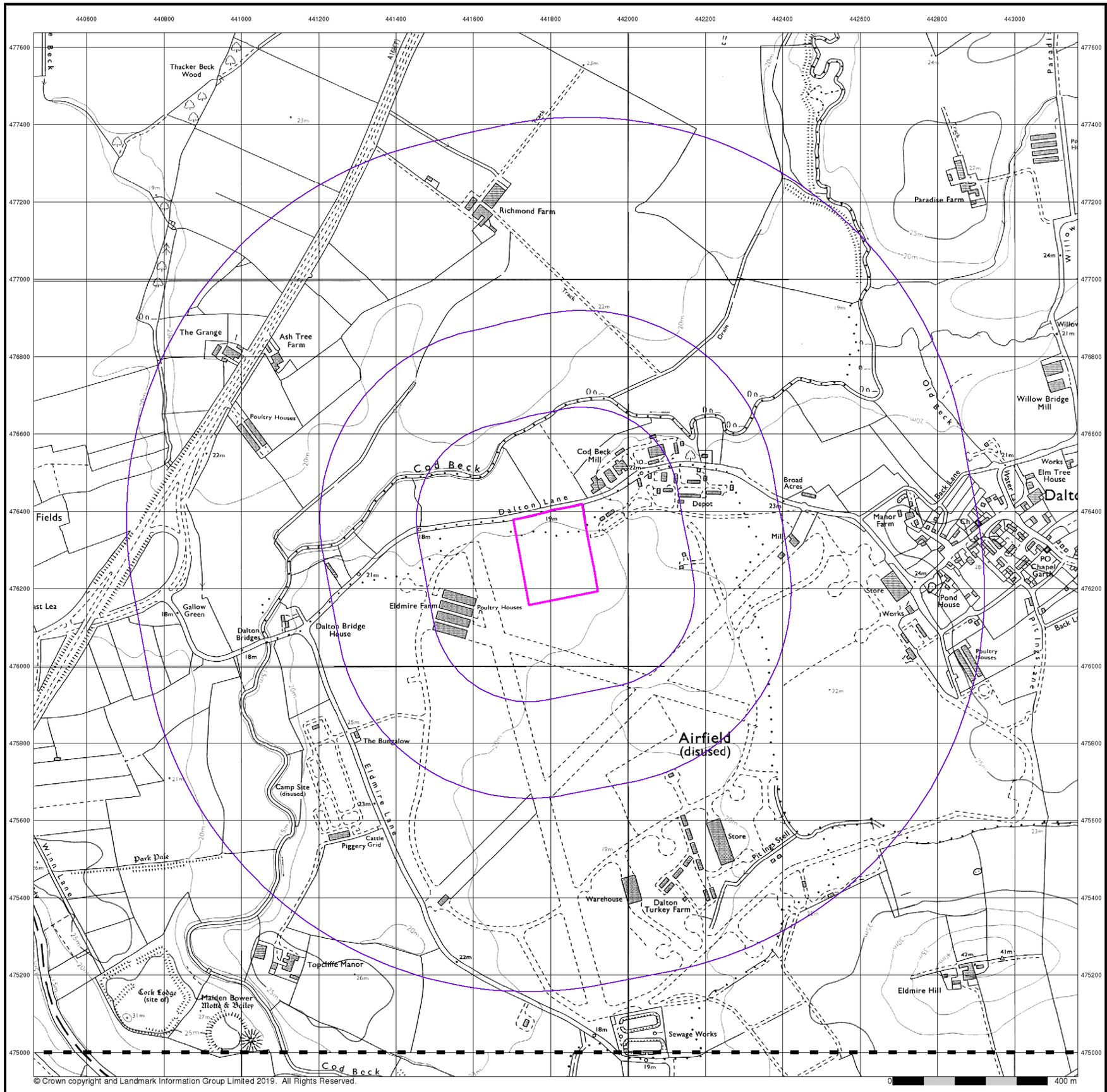

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Ordnance Survey Plan

Published 1980 - 1981

Source map scale - 1:10,000

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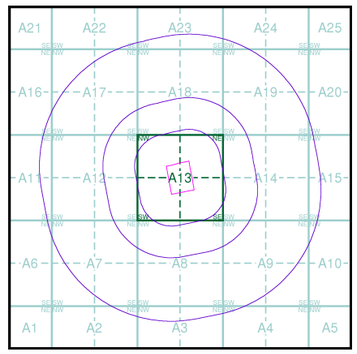
Map Name(s) and Date(s)

SE47NW
1981
1:10,000

SE47SW
1980
1:10,000

Historical Map - Slice A



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Slice:	A
Site Area (Ha):	4.14
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Site Details

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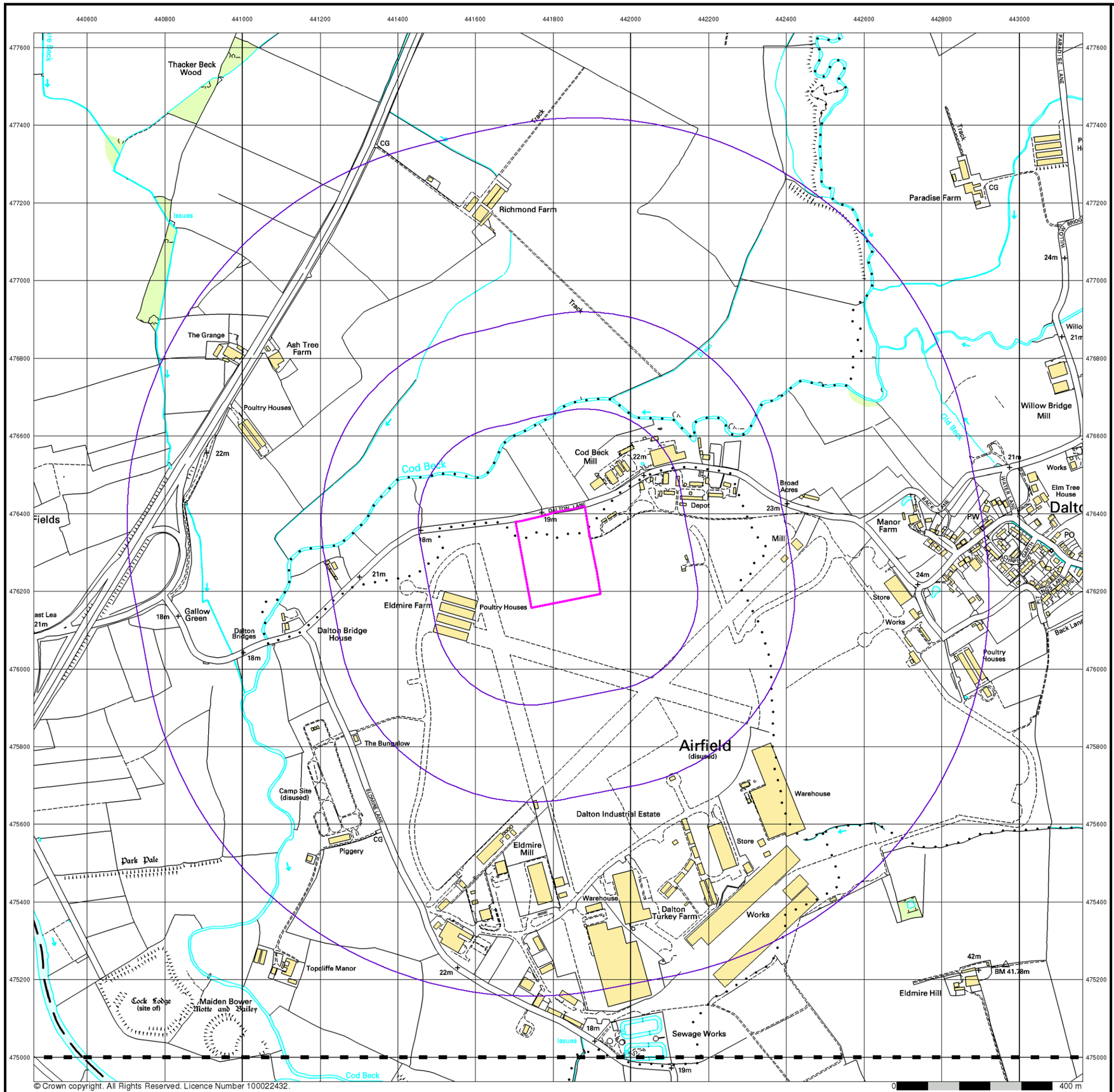


SOLMEK

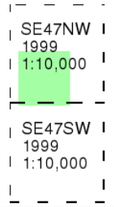
10k Raster Mapping

Published 1999

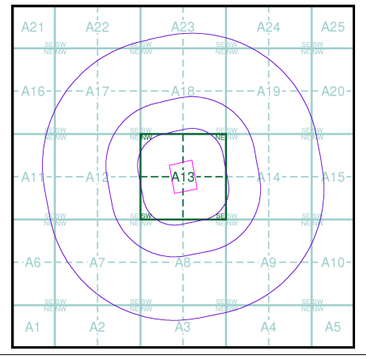
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

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Slice:	A
Site Area (Ha):	4.14
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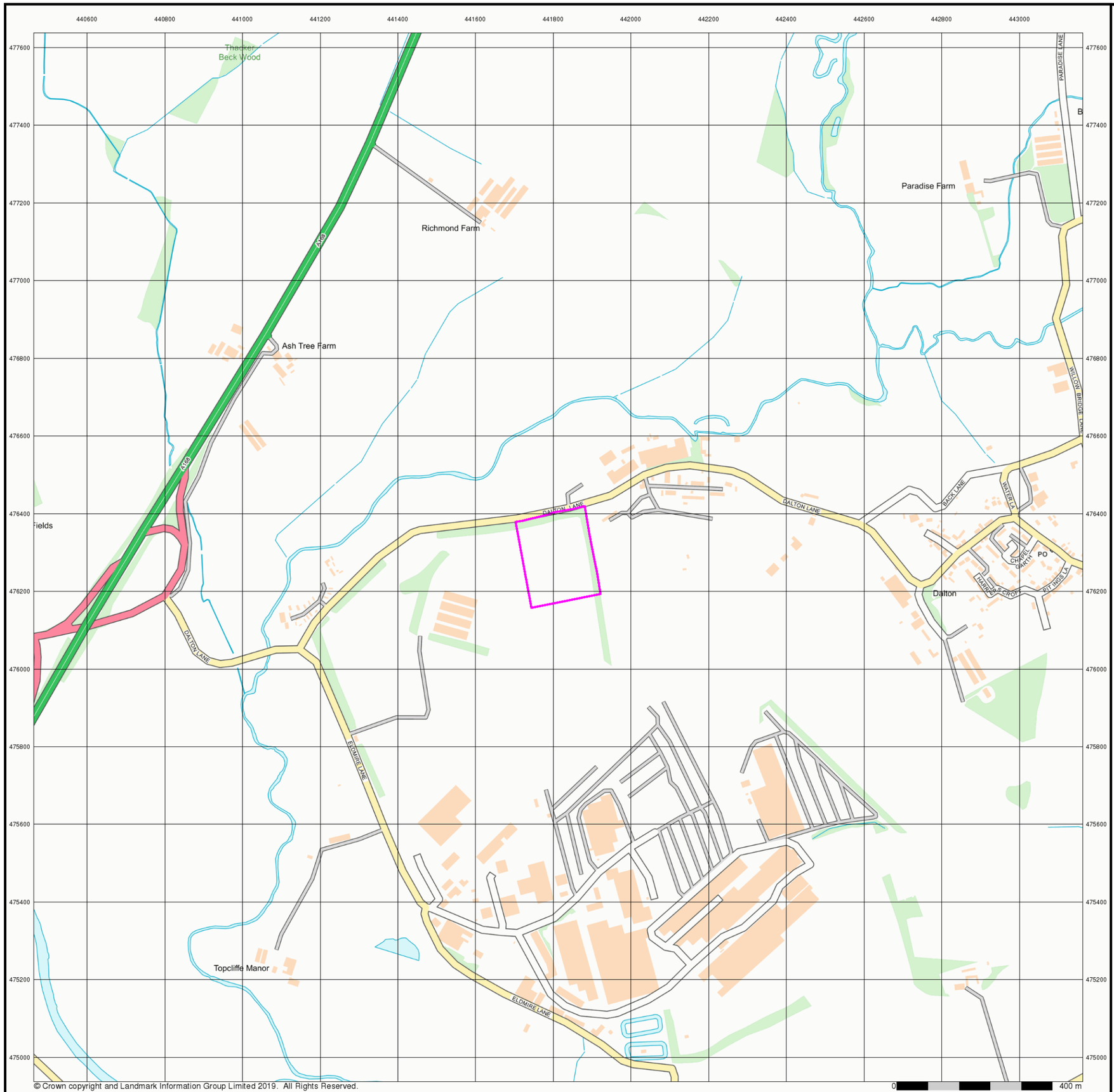


SOLMEK

Street View

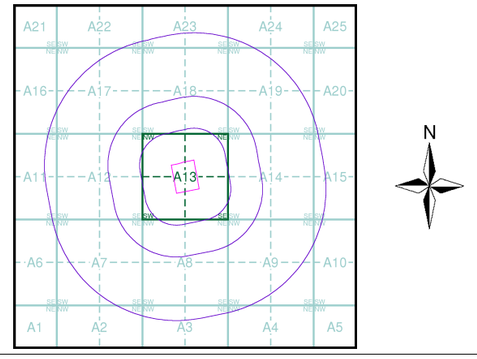
Published 2019

Source map scale - 1:10,000

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

Map Name(s) and Date(s)

Street View Map - Slice A



Order Details

Order Number:	195378932_1_1
Customer Ref:	S190224
National Grid Reference:	441810, 476290
Slice:	A
Site Area (Ha):	4.14
Search Buffer (m):	1000

Site Details

Cod Beck Blenders, Cod Beck Mill Industrial Estate, Dalton Lane, Dalton, THIRSK, YO7 3HR

Landmark INFORMATION GROUP

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Fax: 0844 844 9951
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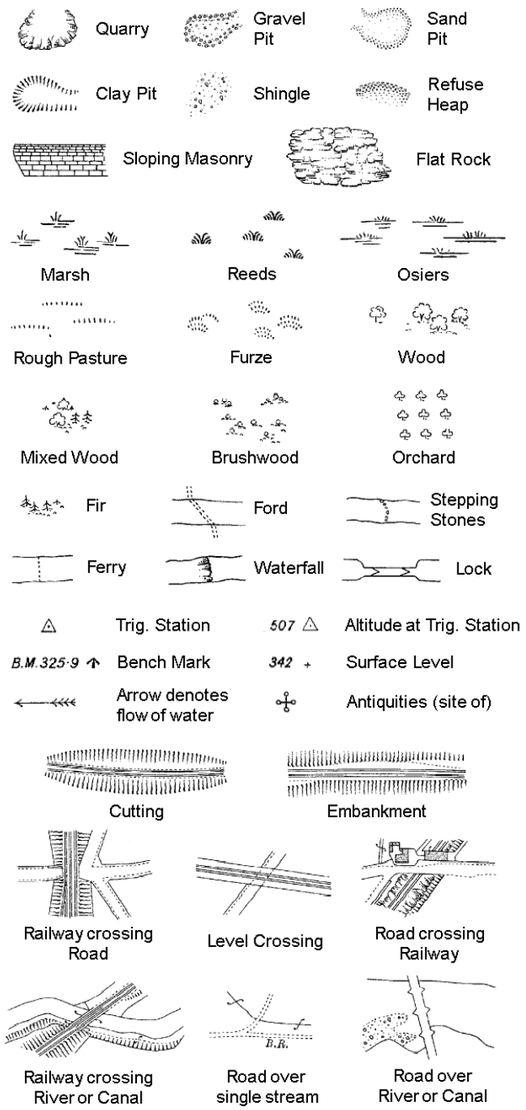
Historical Mapping Legends

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



County Boundary (Geographical)

County & Civil Parish Boundary

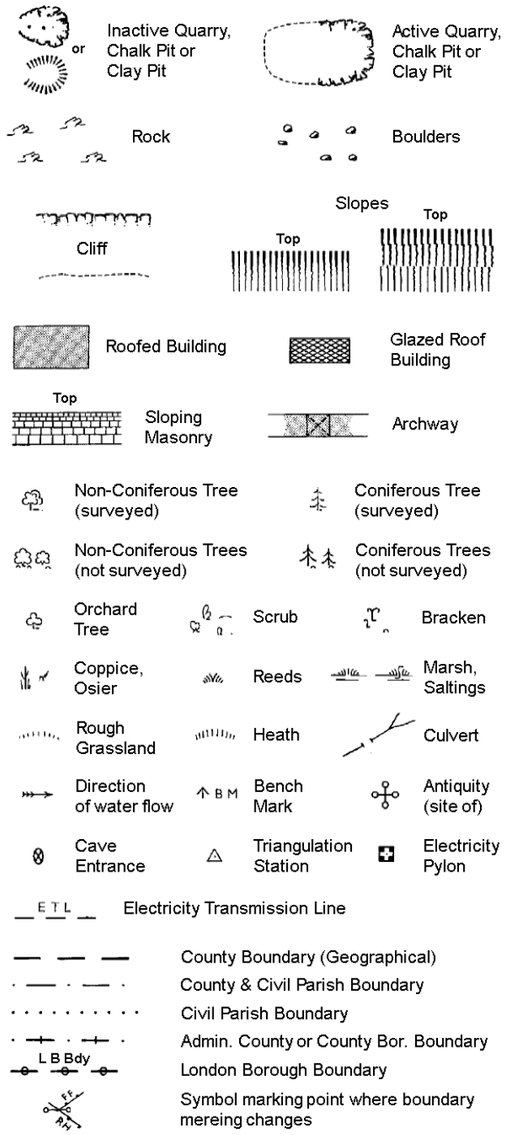
Administrative County & Civil Parish Boundary

Co. Boro. Bdy. County Borough Boundary (England)

Co. Burgh Bdy. County Burgh Boundary (Scotland)

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



County Boundary (Geographical)

County & Civil Parish Boundary

Civil Parish Boundary

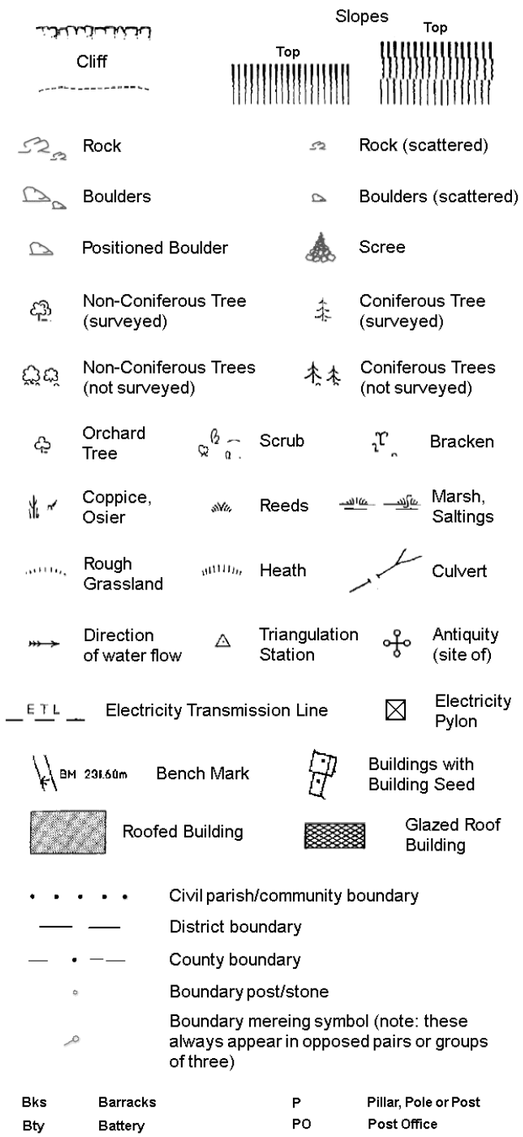
Admin. County or County Bor. Boundary

L B Bdy London Borough Boundary

Symbol marking point where boundary mereing changes

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



Civil parish/community boundary

District boundary

County boundary

Boundary post/stone

Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

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

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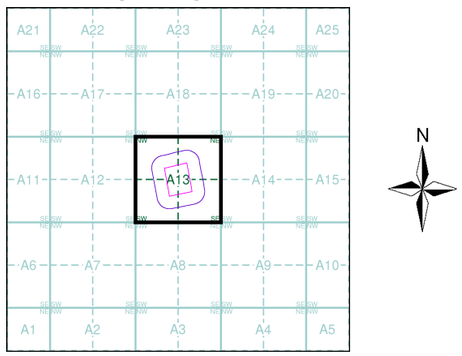
Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Yorkshire	1:2,500	1892	2
Yorkshire	1:2,500	1911	3
Ordnance Survey Plan	1:2,500	1978	4
Additional SIMs	1:2,500	1989	5
Additional SIMs	1:2,500	1992	6
Large-Scale National Grid Data	1:2,500	1994	7

Historical Map - Segment A13



Order Details

Order Number: 195378932_1_1
Customer Ref: S190224
National Grid Reference: 441810, 476290
Slice: A
Site Area (Ha): 4.14
Search Buffer (m): 100

Site Details

Cod Beck Blenders, Cod Beck Mill Industrial Estate, Dalton Lane, Dalton, THIRSK, YO7 3HR

Landmark® INFORMATION GROUP

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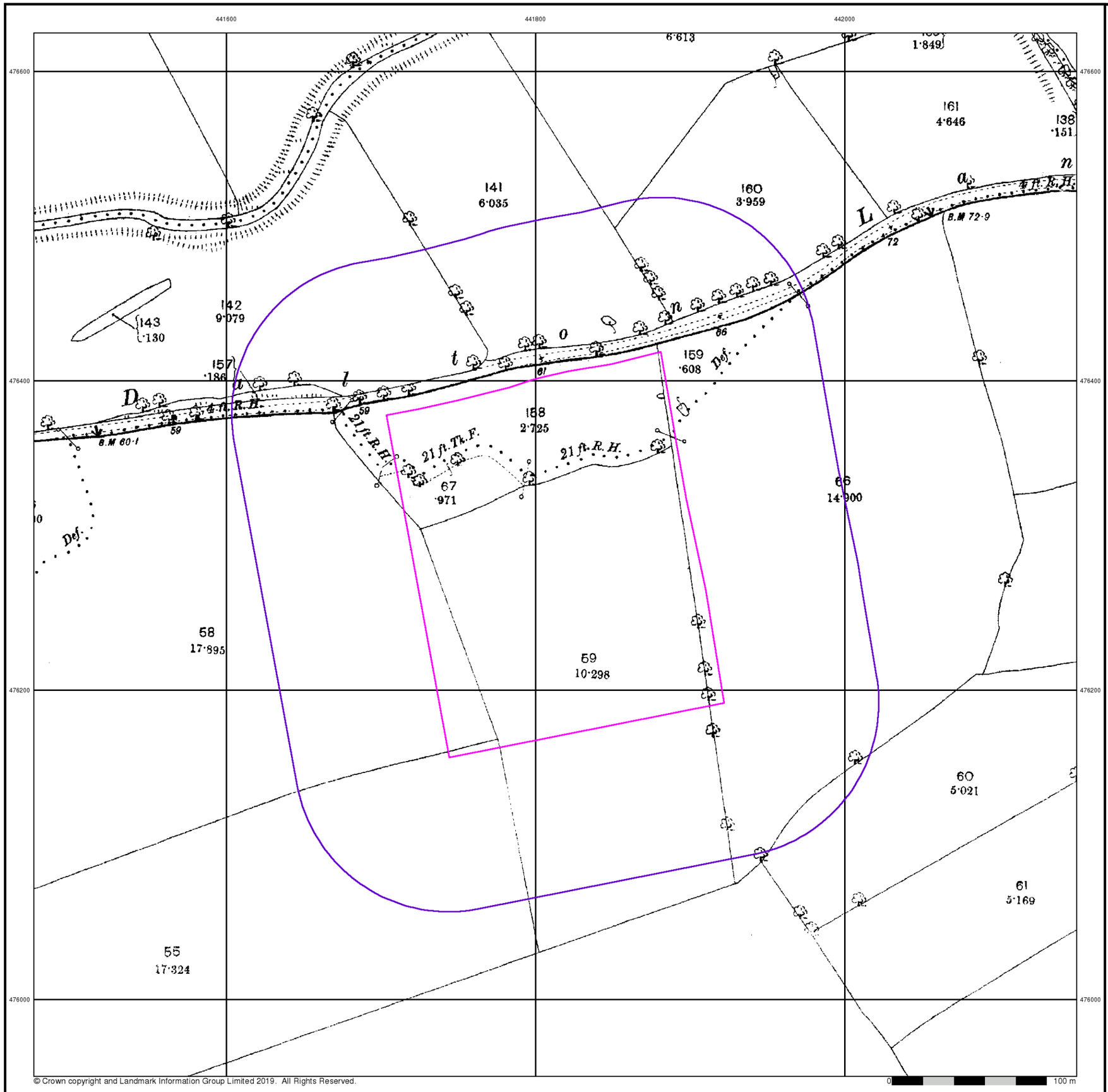
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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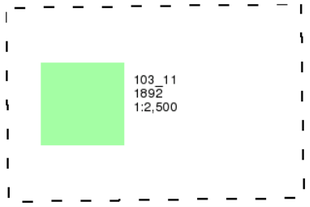
Yorkshire

Published 1892

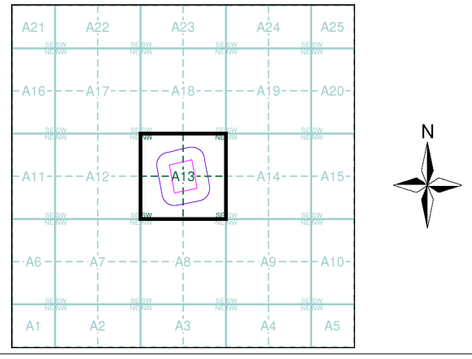
Source map scale - 1:2,500

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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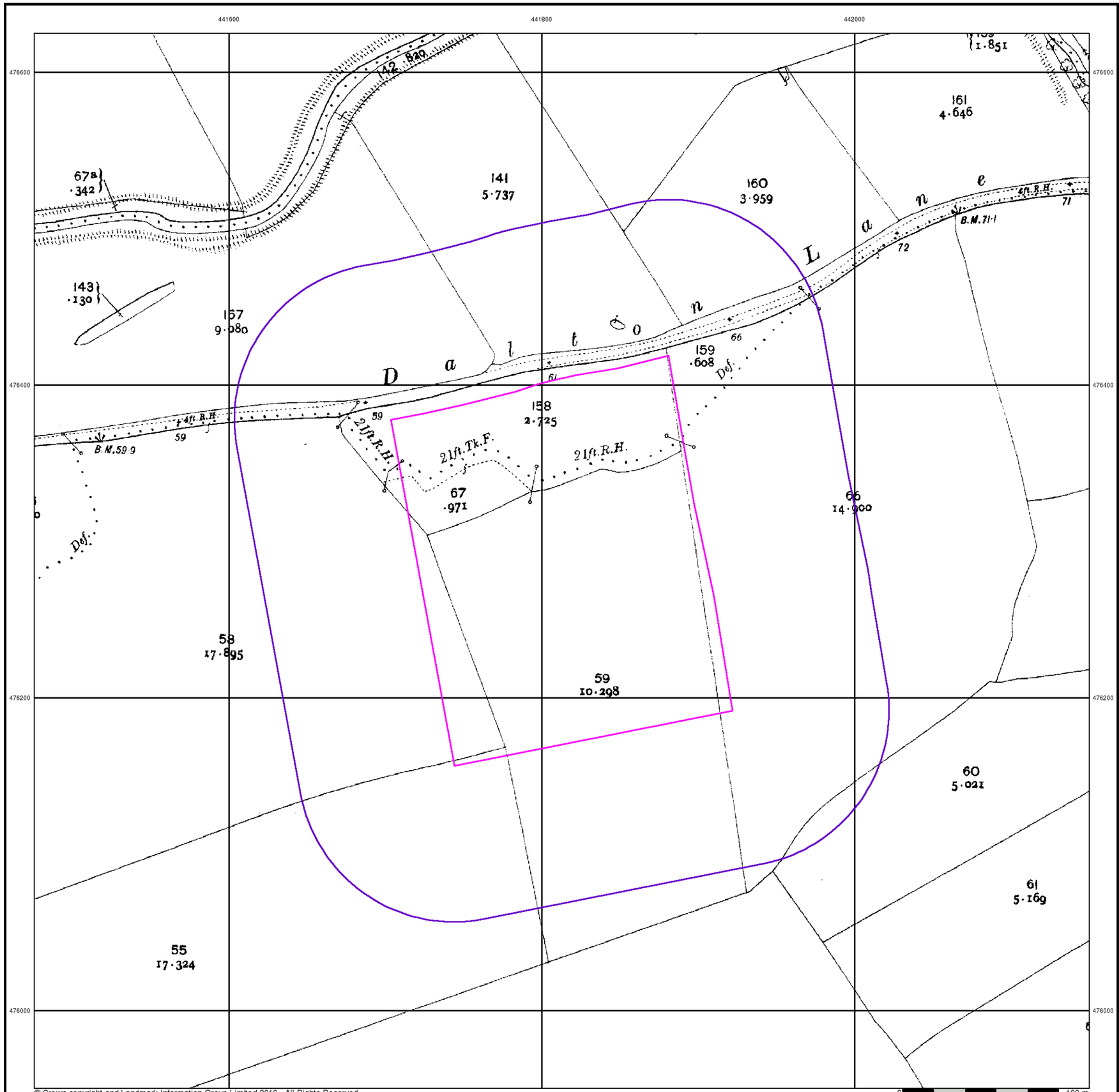


SOLMEK

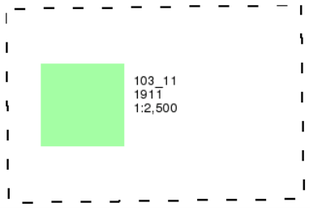
Yorkshire

Published 1911

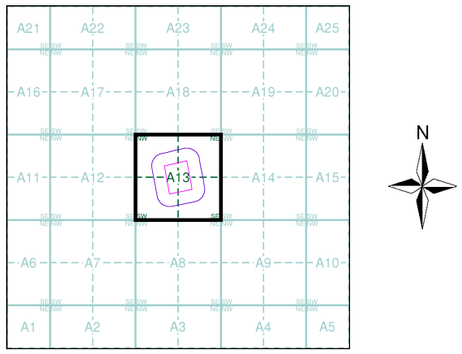
Source map scale - 1:2,500

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:	195378932_1_1
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National Grid Reference:	441810, 476290
Slice:	A
Site Area (Ha):	4.14
Search Buffer (m):	100

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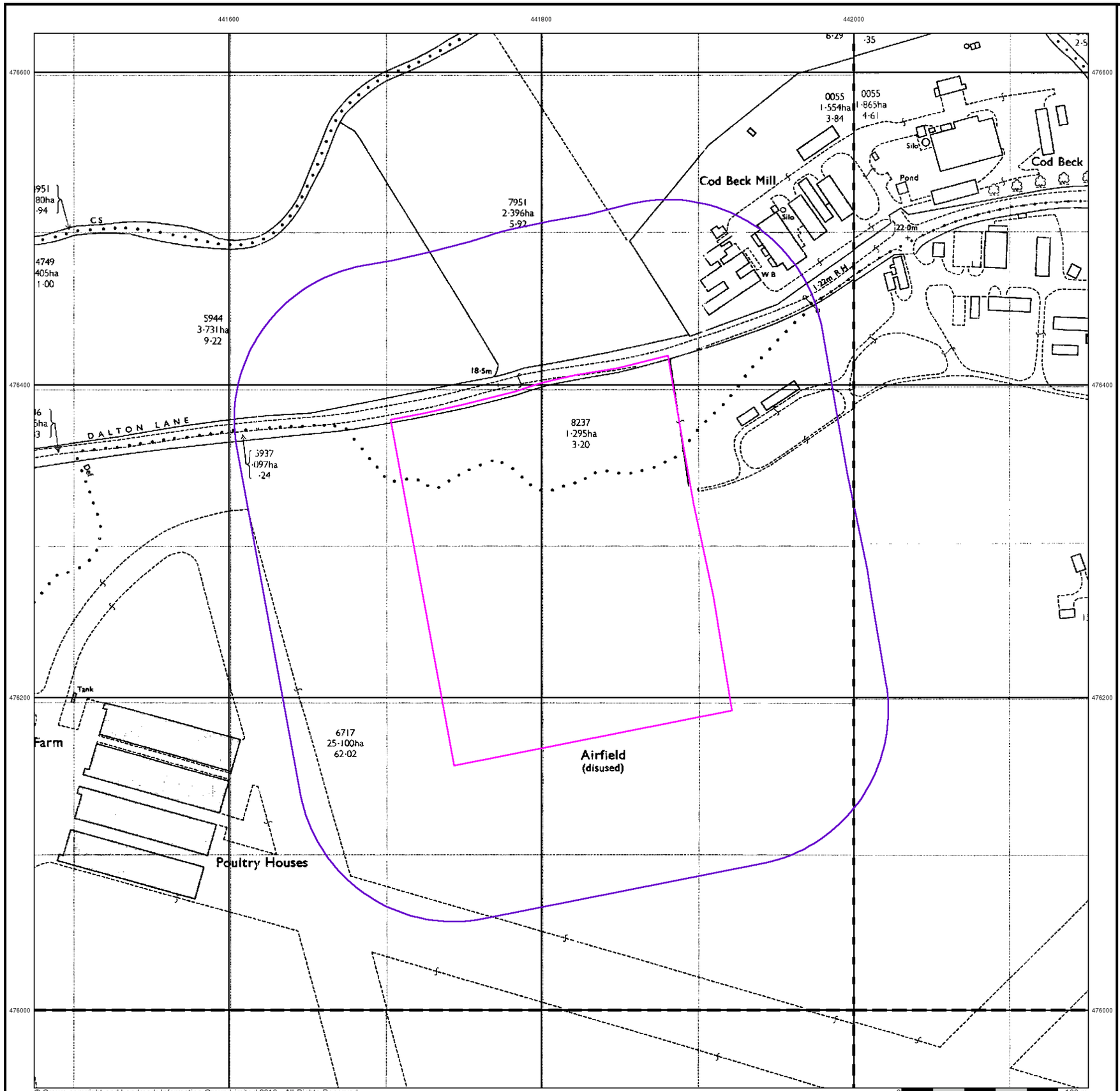

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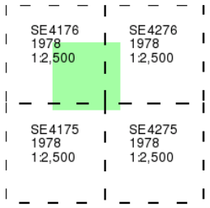
Ordnance Survey Plan

Published 1978

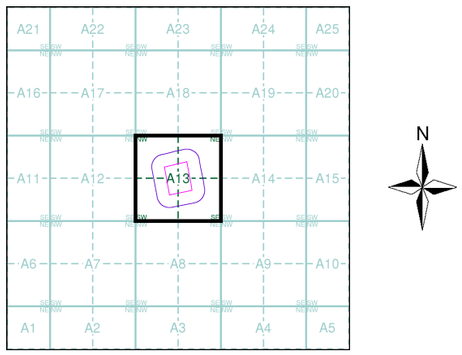
Source map scale - 1:2,500

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:	195378932_1_1
Customer Ref:	S190224
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Slice:	A
Site Area (Ha):	4.14
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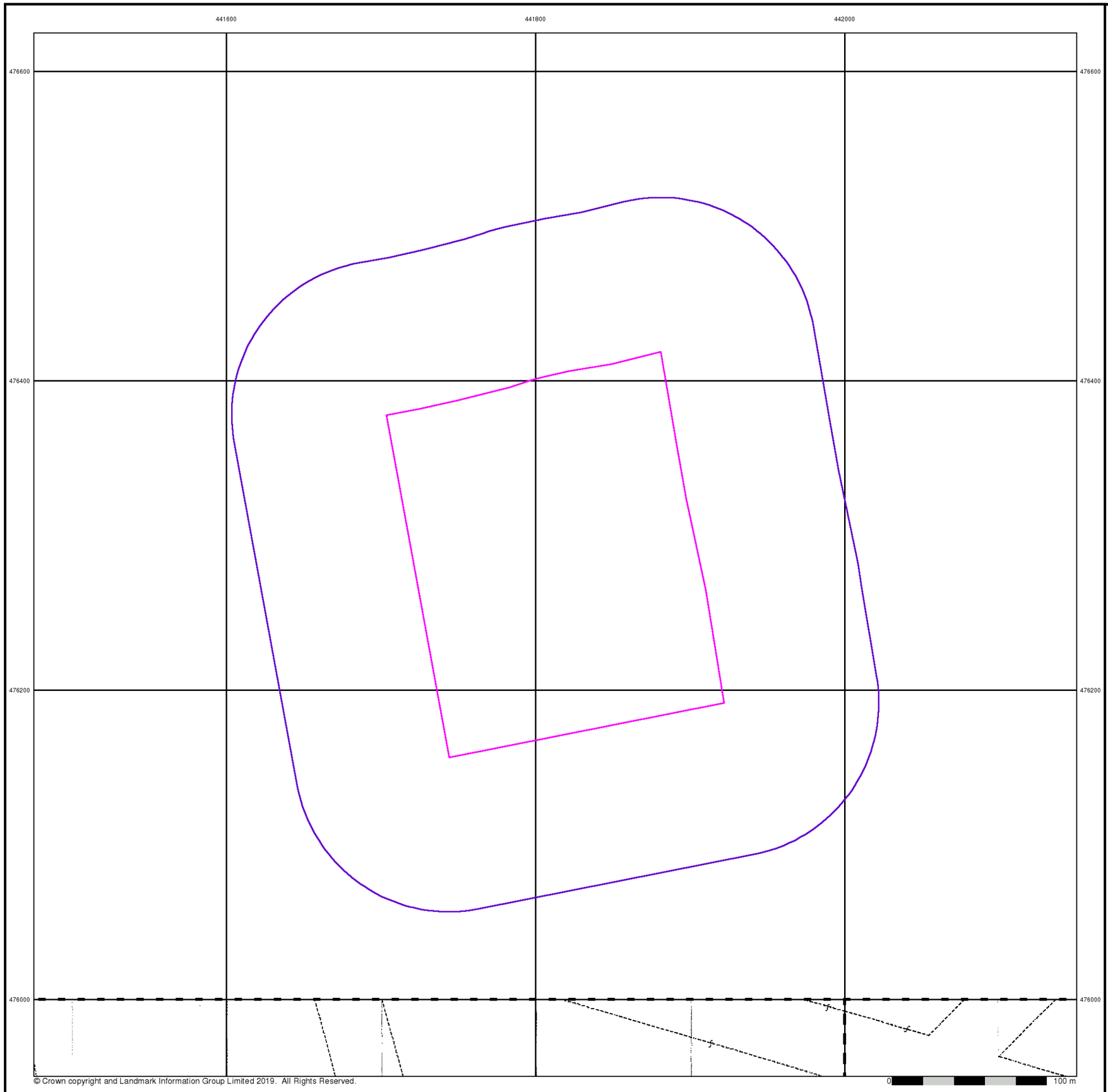


SOLMEK

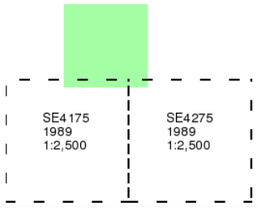
Additional SIMs

Published 1989

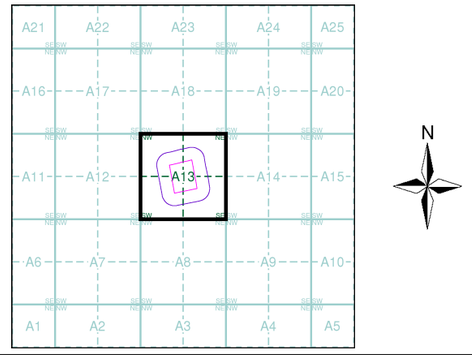
Source map scale - 1:2,500

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



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Site Area (Ha):	4.14
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Site Details

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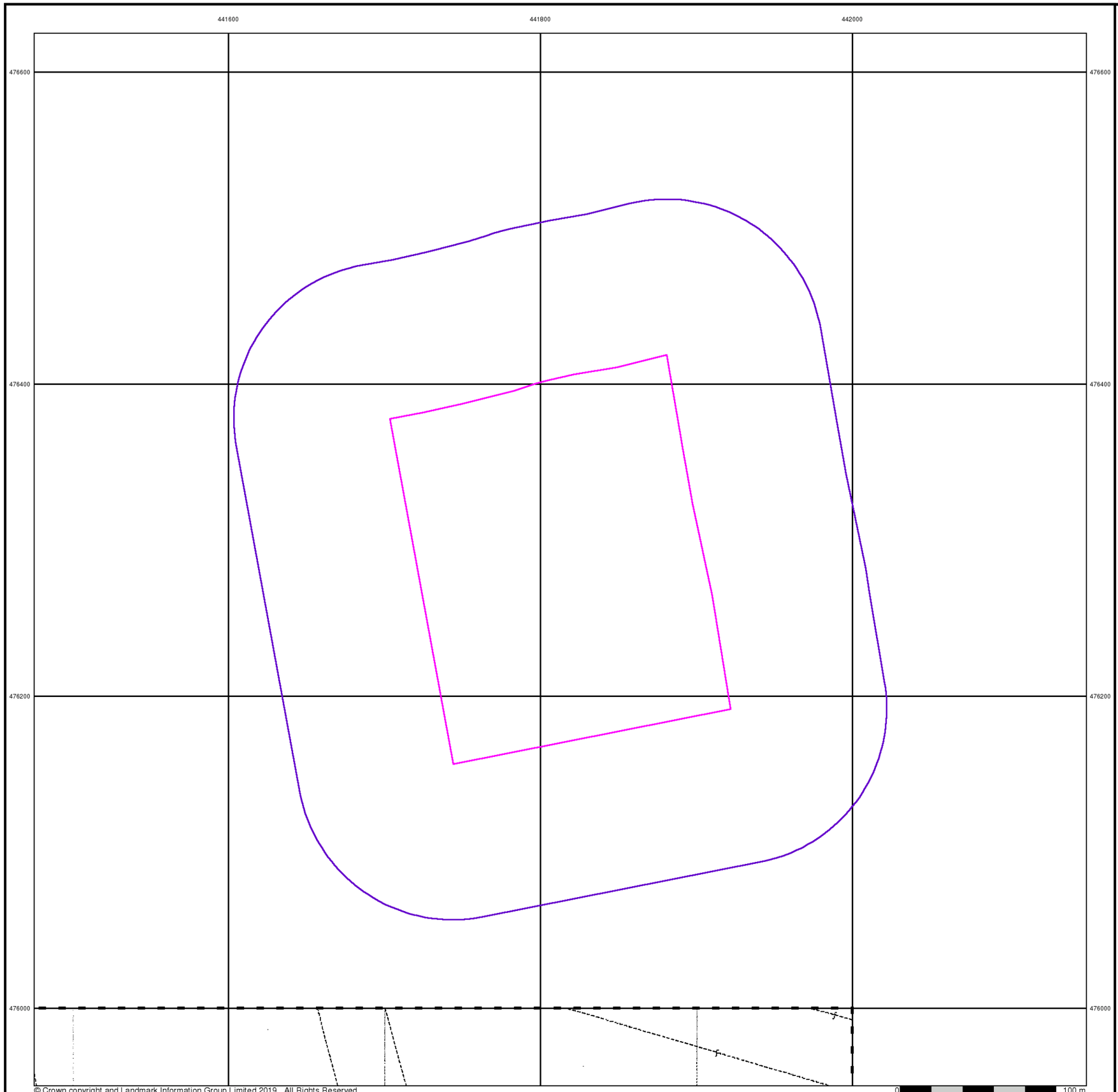


SOLMEK

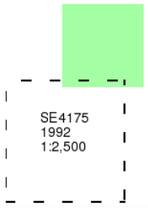
Additional SIMs

Published 1992

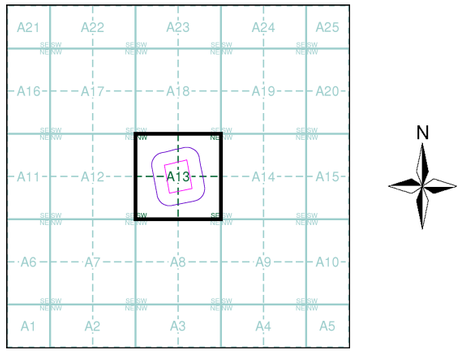
Source map scale - 1:2,500

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



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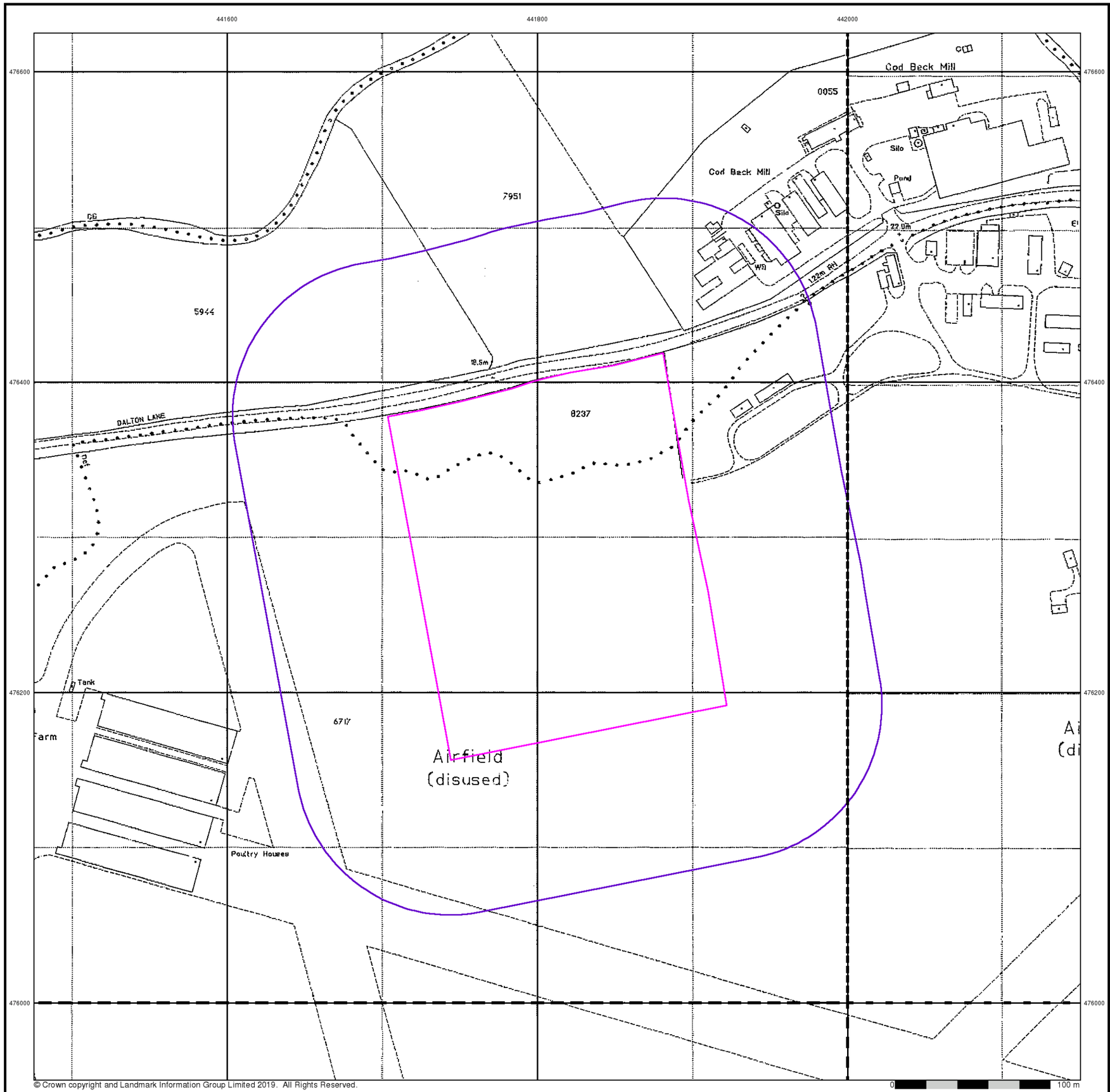

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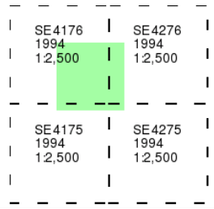
Large-Scale National Grid Data

Published 1994

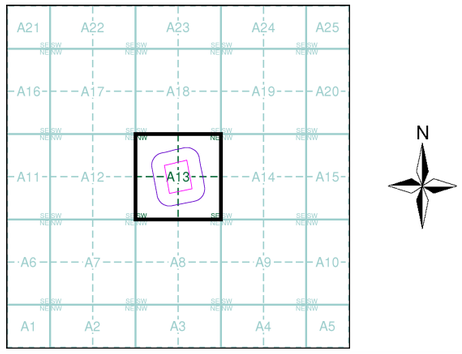
Source map scale - 1:2,500

'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



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Slice:	A
Site Area (Ha):	4.14
Search Buffer (m):	100

Site Details

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Landmark INFORMATION GROUP

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Web: www.envirocheck.co.uk

Appendix C
Envirocheck Report

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Envirocheck® Report:

Datasheet

Order Details:

Order Number:
195378932_1_1

Customer Reference:
S190224

National Grid Reference:
441810, 476290

Slice:
A

Site Area (Ha):
4.14

Search Buffer (m):
1000

Site Details:

Cod Beck Blenders
Cod Beck Mill Industrial Estate
Dalton Lane, Dalton
THIRSK
YO7 3HR

Client Details:

Mr R Woods
Solmek Ltd
12 Yarm Road
Stockton on Tees
Cleveland
TS18 3NA

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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/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.
In this datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Contents

Report Version v53.0

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1		2	4	15
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls	pg 6		6		
Integrated Pollution Prevention And Control	pg 7		7		8
Local Authority Integrated Pollution Prevention And Control	pg 11				1
Local Authority Pollution Prevention and Controls	pg 11		2		9
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 13		Yes		
Pollution Incidents to Controlled Waters	pg 13			1	9
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 14	1			4
River Quality Biology Sampling Points	pg 15				3
River Quality Chemistry Sampling Points	pg 17				5
Substantiated Pollution Incident Register					
Water Abstractions	pg 21			1	14 (*9)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 27	Yes	n/a	n/a	n/a
Drift Deposits			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 27	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 28	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 28	Yes	Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 28		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
OS Water Network Lines	pg 28		1	12	28

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 33	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 34	Yes	n/a	n/a	n/a
BGS Recorded Mineral Sites					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 34	Yes	Yes	n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 34	Yes		n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 34	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 34	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 34	Yes	Yes	n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a

SOLMEK

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Industrial Land Use					
Contemporary Trade Directory Entries	pg 36		5	1	27
Fuel Station Entries					
Gas Pipelines					
Underground Electrical Cables					
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (NE)	0	1	441813 476287
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SE (E)	0	1	441850 476287
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NE (N)	0	1	441813 476350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (W)	27	1	441700 476250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SE (E)	178	1	442100 476250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (W)	205	1	441500 476400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	229	1	441650 476600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (NW)	264	1	441450 476450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	390	1	441800 476800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A14NW (E)	391	1	442300 476300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (W)	404	1	441300 476350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (E)	410	1	442300 476400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (E)	449	1	442350 476350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (S)	457	1	441750 475700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (NW)	461	1	441300 476600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A18SW (N)	473	1	441650 476850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (NW)	485	1	441250 476550
1	**Discharge Consents** Operator: John Smith & Sons Limited Property Type: LAND TRANSPORT + VIA PIPELINES/FREIGHT Location: John Smith & Sons Limited The Airfield, Dalton, Thirsk, North Yorkshire, Yo7 3he Authority: Environment Agency, North East Region Catchment Area: Swale Reference: 27/23/0331 Permit Version: 1 Effective Date: 24th April 2007 Issued Date: 24th April 2007 Revocation Date: Not Supplied Discharge Type: Trade Discharge - Process Water Discharge Environment: Freshwater Stream/River Receiving Water: Unnamed Trib Of Cod Beck **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A13NW (N)	17	2	441770 476410

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	**Discharge Consents** Operator: Gallows Green Services Limited Property Type: MAKING OF FOOD PRODUCTS/DAIRY Location: The Cod Beck Blenders Site Cod Beck Estate, Dalton, Thirsk, North Yorkshire Authority: Environment Agency, North East Region Catchment Area: Swale Reference: 27/23/0107 Permit Version: 1 Effective Date: 14th February 2000 Issued Date: 14th February 2000 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge Environment: Freshwater Stream/River Receiving Water: The Cod Beck **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	A13NW (N)	195	2	441800 476600
3	**Discharge Consents** Operator: Gallows Green Services Limited Property Type: MAKING OF FOOD PRODUCTS/DAIRY Location: The Cod Beck Blenders Site Cod Beck Estate, Dalton, Thirsk, North Yorkshire Authority: Environment Agency, North East Region Catchment Area: Swale Reference: 27/23/0107 Permit Version: 1 Effective Date: 14th February 2000 Issued Date: 14th February 2000 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage (Contaminated Surface Water, Not Waste Sites) Discharge Environment: Freshwater Stream/River Receiving Water: The Cod Beck **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	394	2	442200 476650
3	**Discharge Consents** Operator: Gallows Green Services Limited Property Type: Animal Foodstuffs Location: The Cod Beck Blenders Site Cod Beck Estate, Dalton, Thirsk, North Yorkshire Authority: Environment Agency, North East Region Catchment Area: Swale Reference: 27/23/0107 Permit Version: 1 Effective Date: 14th February 2000 Issued Date: 14th February 2000 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Cooling Water Discharge Environment: Freshwater Stream/River Receiving Water: The Cod Beck **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	403	2	442210 476650
4	**Discharge Consents** Operator: Dorton Packaging Limited Property Type: WHOLESALE TRADE (NOT MOTOR VEHICLES) Location: Dalton Airfield Ind Est, Dalton,, Thirsk, North Yorkshire Authority: Environment Agency, North East Region Catchment Area: Swale Reference: C4843 Permit Version: 1 Effective Date: 4th November 1987 Issued Date: 4th November 1987 Revocation Date: 15th September 1992 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Land/Soakaway Receiving Water: Discharge To Land **Status: Transferred from COPA 1974** Positional Accuracy: Located by supplier to within 100m	A12SE (W)	429	2	441300 476200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	**Discharge Consents** Operator: Dorton Packaging Limited Property Type: WHOLESALE TRADE (NOT MOTOR VEHICLES) Location: Dalton Airfield Ind Est, Dalton,, Thirsk, North Yorkshire Authority: Environment Agency, North East Region Catchment Area: Swale Reference: C4843 Permit Version: 2 Effective Date: 16th September 1992 Issued Date: 4th November 1987 Revocation Date: 9th December 1996 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Land/Soakaway Receiving Water: Discharge To Land **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 100m	A12SE (W)	429	2	441300 476200
5	**Discharge Consents** Operator: Wetherby Stone Products Limited Property Type: MAKING OF GLASS/CERAMICS/CEMENT/CUTTING STONE Location: Wetherby Stone Products Limited Dalton Industrial Estate, Dalton, North Yorkshire, United Kingdom, Yo7 3he Authority: Environment Agency, North East Region Catchment Area: Ouse Reference: 27/23/0314 Permit Version: 1 Effective Date: 4th April 2006 Issued Date: 4th April 2006 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Pitt Ings Stell **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A8SW (S)	581	2	441689 475579
6	**Discharge Consents** Operator: Yorkshire Pine Limited Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES) Location: Factory & Amenity Block Dalton Industrial Estate, Dalton Airfield, Thirsk, North Yorkshire Authority: Environment Agency, North East Region Catchment Area: Swale Reference: C5051 Permit Version: 1 Effective Date: 22nd April 1988 Issued Date: 22nd April 1988 Revocation Date: 1st October 1996 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Trib River Swale **Status: Lapsed (under Environment Act 1995, Schedule 23)** Positional Accuracy: Located by supplier to within 100m	A8SE (SE)	619	2	442100 475600
7	**Discharge Consents** Operator: Yorkshire Pine Products Ltd Property Type: SALE OF MOTOR VEHICLES/MAINTENANCE + REPAIR Location: Yorkshire Pine Factory Dalton Airfield, Dalton, Thirsk, North Yorkshire Authority: Environment Agency, North East Region Catchment Area: Swale Reference: C5661 Permit Version: 1 Effective Date: 27th July 1989 Issued Date: 27th July 1989 Revocation Date: 24th August 1992 Discharge Type: Miscellaneous Discharges - Surface Water Discharge Environment: Freshwater Stream/River Receiving Water: Unnamed Trib Cod Beck **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	654	2	442200 475600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	**Discharge Consents** Operator: Yorkshire Pine Products Ltd Property Type: SALE OF MOTOR VEHICLES/MAINTENANCE + REPAIR Location: Yorkshire Pine Factory Dalton Airfield, Dalton, Thirsk, North Yorkshire Authority: Environment Agency, North East Region Catchment Area: Swale Reference: C5661 Permit Version: 1 Effective Date: 27th July 1989 Issued Date: 27th July 1989 Revocation Date: 24th August 1992 Discharge Type: Trade Discharges - Site Drainage Discharge Environment: Freshwater Stream/River Receiving Water: Unnamed Trib Cod Beck **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	654	2	442200 475600
8	**Discharge Consents** Operator: S & R Preston Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES) Location: Electrical Warehouse And Store Dalton Airfield, Dalton, Thirsk, North Yorkshire Authority: Environment Agency, North East Region Catchment Area: Swale Reference: C5705 Permit Version: 1 Effective Date: 31st August 1989 Issued Date: 31st August 1989 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Pit Ings Stell **Status: Transferred from COPA 1974** Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	703	2	442300 475600
9	**Discharge Consents** Operator: Hermanns Poultry Ltd Property Type: Poultry Slaughter Location: Eldmire Mill, North Yorkshire, YO7 3HE Authority: Environment Agency, North East Region Catchment Area: Swale Reference: 3259 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 21st December 1977 Revocation Date: Not Supplied Discharge Type: Trade Effluent Discharge-Treated Effluent Discharge Environment: Unknown Receiving Water: Not Supplied **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	846	2	441155 475550
9	**Discharge Consents** Operator: Hermanns Poultry Ltd Property Type: Miscellaneous Foods Location: Eldmire Mill, Dalton Airfield, THIRSK, North Yorkshire, YO7 3HE Authority: Environment Agency, North East Region Catchment Area: Swale Reference: 3259 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Sewage Effluent Discharge Environment: Freshwater Stream/River Receiving Water: Pit Ings Stell **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	850	2	441150 475550

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	**Discharge Consents** Operator: Hermanns Poultry Ltd Property Type: Miscellaneous Foods Location: Eldmire Mill, Dalton Airfield, THIRSK, North Yorkshire, YO7 3HE Authority: Environment Agency, North East Region Catchment Area: Swale Reference: 3259 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Trade Discharge - Vehicle Washdown Discharge Environment: Freshwater Stream/River Receiving Water: Pit Ings Stell **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	850	2	441155 475545
9	**Discharge Consents** Operator: Hermanns Poultry Ltd Property Type: Miscellaneous Foods Location: Eldmire Mill, Dalton Airfield, THIRSK, North Yorkshire, YO7 3HE Authority: Environment Agency, North East Region Catchment Area: Swale Reference: 3259 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Trade Effluent Discharge-Boiler Blowdown Discharge Environment: Freshwater Stream/River Receiving Water: Pit Ings Stell **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	853	2	441150 475545
10	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Dalton Sewage Treatment Works, Dalton, Thirsk, North Yorkshire Authority: Environment Agency, North East Region Catchment Area: Swale Reference: 113 Permit Version: 1 Effective Date: 25th February 1953 Issued Date: 25th February 1953 Revocation Date: 17th September 1993 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Trib Cod Beck **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 100m	A8SW (S)	869	2	441600 475300
11	**Discharge Consents** Operator: Firmenich Property Type: MAKING OF FOOD PRODUCTS/DAIRY Location: Dalton Ind Site, Dalton, Thirsk, North Yorkshire Authority: Environment Agency, North East Region Catchment Area: Swale Reference: C4841 Permit Version: 2 Effective Date: 26th July 2012 Issued Date: 26th July 2012 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Land/Soakaway Receiving Water: Discharge To Land **Status: Transferred from COPA 1974** Positional Accuracy: Located by supplier to within 100m	A8SW (S)	891	2	441500 475300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	**Discharge Consents** Operator: Firmenich Property Type: MAKING OF FOOD PRODUCTS/DAIRY Location: Dalton Ind Site, Dalton, Thirsk, North Yorkshire Authority: Environment Agency, North East Region Catchment Area: Swale Reference: C4841 Permit Version: 1 Effective Date: 4th November 1987 Issued Date: 4th November 1987 Revocation Date: 25th July 2012 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Land/Soakaway Receiving Water: Discharge To Land **Status: Transferred from COPA 1974** Positional Accuracy: Located by supplier to within 100m	A8SW (S)	891	2	441500 475300
12	**Discharge Consents** Operator: Severfield Rowen Plc Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES) Location: Dalton Airfield Industrial Estate, Dalton, Thirsk, North Yorkshire, Yo7 3jn Authority: Environment Agency, North East Region Catchment Area: Swale Reference: 27/23/0147 Permit Version: 1 Effective Date: 13th June 2001 Issued Date: 13th June 2001 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Pit Ings Stell **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A8SE (S)	916	2	442130 475300
13	**Discharge Consents** Operator: Premier Poultry Ltd Property Type: MAKING OF FOOD PRODUCTS/DAIRY Location: Chicken Hatchery, Dalton Airfield, Thirsk, North Yorkshire Authority: Environment Agency, North East Region Catchment Area: Swale Reference: 3259 Permit Version: 1 Effective Date: 1st January 1982 Issued Date: 1st January 1982 Revocation Date: 4th March 2002 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Cod Beck **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 100m	A7SW (SW)	920	2	441100 475500
13	**Discharge Consents** Operator: J A Waterworth Property Type: MAKING OF FOOD PRODUCTS/DAIRY Location: Chicken Hatchery, Dalton Airfield, Thirsk, North Yorkshire Authority: Environment Agency, North East Region Catchment Area: Swale Reference: 395 Permit Version: 1 Effective Date: 22nd June 1955 Issued Date: 22nd June 1955 Revocation Date: 12th January 1993 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Trib Of Old Beck **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 100m	A7SW (SW)	920	2	441100 475500
14	**Integrated Pollution Controls** Name: Gallows Green Services Ltd Location: Cod Beck Mill Industrial Estate, Dalton Lane, Dalton, THIRSK, North Yorkshire, YO7 3HR Authority: Environment Agency, North East Region Permit Reference: Bu7782 Dated: 15th July 2003 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.5 A (D) Inorganic Chemical processes within the Chemical Industry **Status: Revoked - Now IPPC** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	182	2	441991 476564

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	**Integrated Pollution Controls** Name: Gallows Green Services Ltd Location: Cod Beck Mill Industrial Estate, Dalton Lane, Dalton, THIRSK, North Yorkshire, YO7 3HR Authority: Environment Agency, North East Region Permit Reference: Bi4209 Dated: 30th June 2000 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.5 A (D) Inorganic Chemical processes within the Chemical Industry **Status: Authorisation superseded by a substantial or non substantial variation** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	182	2	441991 476564
14	**Integrated Pollution Controls** Name: Gallows Green Services Ltd Location: Cod Beck Mill Industrial Estate, Dalton Lane, Dalton, THIRSK, North Yorkshire, YO7 3HR Authority: Environment Agency, North East Region Permit Reference: BD7740 Dated: 24th November 1998 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.5 A (D) Inorganic Chemical processes within the Chemical Industry **Status: Authorisation superseded by a substantial or non substantial variation** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	182	2	441991 476564
14	**Integrated Pollution Controls** Name: Gallows Green Services Ltd Location: Cod Beck Mill Industrial Estate, Dalton Lane, Dalton, THIRSK, North Yorkshire, YO7 3HR Authority: Environment Agency, North East Region Permit Reference: AX2332 Dated: 7th February 1997 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.5 A (D) Inorganic Chemical processes within the Chemical Industry **Status: Authorisation superseded by a substantial or non substantial variation** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	182	2	441991 476564
14	**Integrated Pollution Controls** Name: Gallows Green Services Ltd Location: Cod Beck Mill Industrial Estate, Dalton Lane, Dalton, THIRSK, North Yorkshire, YO7 3HR Authority: Environment Agency, North East Region Permit Reference: AR8455 Dated: 2nd October 1995 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.5 A (D) Inorganic Chemical processes within the Chemical Industry **Status: Authorisation superseded by a substantial or non substantial variation** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	182	2	441991 476564
14	**Integrated Pollution Controls** Name: Gallows Green Services Ltd Location: Cod Beck Mill Industrial Estate, Dalton Lane, Dalton, THIRSK, North Yorkshire, YO7 3HR Authority: Environment Agency, North East Region Permit Reference: AO1306 Dated: 21st November 1994 Process Type: IPC application for process that was regulated by HMIP for air releases under previous legislation Description: 4.5 A (F) Inorganic Chemical processes within the Chemical Industry **Status: Authorisation superseded by a substantial or non substantial variation** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	182	2	441991 476564
15	**Integrated Pollution Prevention And Control** Name: Cranberry Foods Ltd Location: Eldmire Farm, Eldmire Farm, Eldmire,Dalton, Thirsk, YO7 3JE Authority: Environment Agency, North East Region Permit Reference: PP3537MF Original Permit Ref: Pp3537mf Effective Date: 24th September 2007 **Status: Superseded By Variation** Application Type: Application App. Sub Type: New Positional Accuracy: Manually positioned to the address or location Activity Code: 6.9 A(1) (A) (I) Activity Description: Intensive Farming; Greater Than 40,000 Poultry Primary Activity: Y Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N	A13SW (SW)	171	2	441582 476103

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	**Integrated Pollution Prevention And Control** Name: Faccenda Foods Limited Location: Eldmire Poultry Farm, Eldmire Farm, Eldmire,Dalton, Thirsk, YO7 3JE Authority: Environment Agency, North East Region Permit Reference: MP3036VU Original Permit Ref: Zp3637zc Effective Date: 23rd June 2014 **Status:** **Effective** Application Type: Variation App. Sub Type: Minor Positional Accuracy: Located by supplier to within 10m Activity Code: 6.9 A(1) (A) (I) Activity Description: Intensive Farming; Greater Than 40,000 Poultry Primary Activity: Y Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N	A13SW (SW)	206	2	441540 476130
15	**Integrated Pollution Prevention And Control** Name: Faccenda Group Ltd Location: Eldmire Poultry Farm, Eldmire Farm, Eldmire,Dalton, Thirsk, YO7 3JE Authority: Environment Agency, North East Region Permit Reference: VP3934EF Original Permit Ref: Zp3637zc Effective Date: 22nd January 2014 **Status:** **Superseded By Variation** Application Type: Variation App. Sub Type: Standard Positional Accuracy: Located by supplier to within 10m Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N Activity Code: 6.9 A(1) (A) (I) Activity Description: Intensive Farming; Greater Than 40,000 Poultry Primary Activity: Y	A13SW (SW)	206	2	441540 476130
15	**Integrated Pollution Prevention And Control** Name: Faccenda Group Ltd Location: Eldmire Poultry Farm, Eldmire Farm, Eldmire,Dalton, Thirsk, YO7 3JE Authority: Environment Agency, North East Region Permit Reference: ZP3637ZC Original Permit Ref: Zp3637zc Effective Date: 17th April 2013 **Status:** **Superseded By Variation** Application Type: Transfer App. Sub Type: Whole without Fit and Proper Person Positional Accuracy: Located by supplier to within 10m Activity Code: 6.9 A(1) (A) (I) Activity Description: Intensive Farming; Greater Than 40,000 Poultry Primary Activity: Y Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N	A13SW (SW)	206	2	441540 476130
16	**Integrated Pollution Prevention And Control** Name: Cod Beck Blenders Limited Location: Codbeck Blenders, Cod Beck Blenders, Dalton Lane,Dalton,, Thirsk, North Yorkshire, YO7 3HR Authority: Environment Agency, North East Region Permit Reference: YP3230JY Original Permit Ref: Ap3735ss Effective Date: 26th October 2017 **Status:** **Effective** Application Type: Variation App. Sub Type: Simple Standard Variation Positional Accuracy: Automatically positioned to the address Activity Code: 4.2 A(1) (D) Activity Description: Inorganic Chemicals; Using Etc Of Antimony Etc (Unless Otherrwise Prescrined) (Unless Glazing Etc) Primary Activity: Y Activity Code: 4.2 Part A (1) c) 2017 Activity Description: manufacturing the use of, or the use of antimony, arsenic, beryllium, gallium, indium, lead, palladium, platinum, selenium, tellurium and thallium Primary Activity: N	A13NE (NE)	177	2	442031 476512

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	**Integrated Pollution Prevention And Control** Name: Cod Beck Blenders Limited Location: Codbeck Blenders, Cod Beck Blenders, Dalton Lane,Dalton,, Thirsk, North Yorkshire, YO7 3HR Authority: Environment Agency, North East Region Permit Reference: DP3231DD Original Permit Ref: Ap3735ss Effective Date: 30th November 2016 **Status: Superseded By Variation** Application Type: Variation App. Sub Type: Minor Positional Accuracy: Automatically positioned to the address Activity Code: 4.2 A(1) (D) Activity Description: Inorganic Chemicals; Using Etc Of Antimony Etc (Unless Otherrwise Prescrined) (Unless Glazing Etc) Primary Activity: Y Activity Code: 4.2 Part A (1) c) 2017 Activity Description: manufacturing the use of, or the use of antimony, arsenic, beryllium, gallium, indium, lead, palladium, platinum, selenium, tellurium and thallium Primary Activity: N	A13NE (NE)	177	2	442031 476512
17	**Integrated Pollution Prevention And Control** Name: Gallows Green Services Limited Location: Cod Beck Mill Industrial Estate, Dalton Lane, Dalton, THIRSK, North Yorkshire, YO7 3HR Authority: Environment Agency, North East Region Permit Reference: Ap3735ss Original Permit Ref: Ap3735ss Effective Date: 23rd June 2005 **Status: Superseded By Variation** Application Type: Application App. Sub Type: New Positional Accuracy: Automatically positioned to the address Activity Code: 4.2 A(1) (D) Activity Description: Inorganic Chemicals; Using Etc Of Antimony Etc (Unless Otherrwise Prescrined) (Unless Glazing Etc) Primary Activity: Y	A13NE (NE)	182	2	441991 476564
18	**Integrated Pollution Prevention And Control** Name: Wagg Foods Ltd Location: Dalton Petfoods Manufacturer, Dalton Airfield, Topcliffe,, Thirsk, North Yorkshire, YO7 3HE Authority: Environment Agency, North East Region Permit Reference: VP3539VX Original Permit Ref: Bq0526iz Effective Date: 30th June 2014 **Status: Effective** Application Type: Variation App. Sub Type: Substantial Positional Accuracy: Automatically positioned to the address Activity Code: 6.8 A(1) (D) (I) Activity Description: Animal Vegetable & Food; Treating Etc Animal Raw Materials (Not Milk) For Food >75T/D Primary Activity: Y Activity Code: 6.8 A(1) (D) (I) Activity Description: TREATMENT AND PROCESSING (OTHER THAN PACKAGING) OF ONLY ANIMAL RAW MATERIALS (OTHER THAN MILK ONLY) INTENDED FOR PRODUCTION OF FOOD OR FEED WITH A FINISHED PRODUCT CAPACITY GREATER THAN 75 T/D Primary Activity: N	A8SE (S)	594	2	441905 475583
19	**Integrated Pollution Prevention And Control** Name: J.C Lister Farms Ltd Location: Richmond Farm, Richmond Farm, Topcliffe Common,,Topcliffe, THIRSK, North Yorkshire, YO7 3HW Authority: Environment Agency, North East Region Permit Reference: SP3735NE Original Permit Ref: Cp3630ua Effective Date: 21st May 2013 **Status: Effective** Application Type: Variation App. Sub Type: Standard Positional Accuracy: Automatically positioned to the address Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N Activity Code: 6.9 A(1) a) (ii) Activity Description: Intensive Farming; > 2,000 Pigs (Production Pigs) Primary Activity: Y	A18NW (N)	765	2	441617 477144

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
20	**Integrated Pollution Prevention And Control** Name: Inspired Pet Nutrition Limited Location: Ipn Limited, Dalton Airfield, Topcliffe,, Thirsk, North Yorkshire, YO7 3HE Authority: Environment Agency, North East Region Permit Reference: NP3535JS Original Permit Ref: Bq0526iz Effective Date: Not Supplied **Status: Valid** Application Type: Variation App. Sub Type: Standard Positional Accuracy: Automatically positioned to the address Activity Code: 6.8 A(1) (D) (I) Activity Description: TREATMENT AND PROCESSING (OTHER THAN PACKAGING) OF ONLY ANIMAL RAW MATERIALS (OTHER THAN MILK ONLY) INTENDED FOR PRODUCTION OF FOOD OR FEED WITH A FINISHED PRODUCT CAPACITY GREATER THAN 75 T/D Primary Activity: N Activity Code: 6.8 A(1) (D) (I) Activity Description: Animal Vegetable & Food; Treating Etc Animal Raw Materials (Not Milk) For Food >75T/D Primary Activity: Y	A8SW (S)	857	2	441762 475300
20	**Integrated Pollution Prevention And Control** Name: Wagg Foods Ltd Location: Dalton Petfoods Manufacturer, Dalton Airfield, Topcliffe,, Thirsk, North Yorkshire, YO7 3HE Authority: Environment Agency, North East Region Permit Reference: ZP3735ZH Original Permit Ref: Bq0526iz Effective Date: 18th February 2013 **Status: Superseded By Variation** Application Type: Variation App. Sub Type: Standard Positional Accuracy: Automatically positioned to the address Activity Code: 6.8 A(1) (D) (I) Activity Description: Animal Vegetable & Food; Treating Etc Animal Raw Materials (Not Milk) For Food >75T/D Primary Activity: Y	A8SW (S)	866	2	441763 475291
20	**Integrated Pollution Prevention And Control** Name: Wagg Foods Ltd Location: Dalton Petfoods Manufacturer, Dalton Airfield, Topcliffe,, Thirsk, North Yorkshire, YO7 3HE Authority: Environment Agency, North East Region Permit Reference: NP3937HC Original Permit Ref: Bq0526iz Effective Date: 9th February 2012 **Status: Superseded By Variation** Application Type: Variation App. Sub Type: Substantial Positional Accuracy: Automatically positioned to the address Activity Code: 6.8 A(1) (D) (I) Activity Description: Animal Vegetable & Food; Treating Etc Animal Raw Materials (Not Milk) For Food >75T/D Primary Activity: Y	A8SW (S)	866	2	441763 475291
20	**Integrated Pollution Prevention And Control** Name: Wagg Foods Ltd Location: Dalton Airfield, Dalton, Thirsk, North Yorkshire, YO7 3HE Authority: Environment Agency, North East Region Permit Reference: RP3439XS Original Permit Ref: Bq0526iz Effective Date: 27th March 2008 **Status: Superseded By Variation** Application Type: Variation App. Sub Type: Standard Positional Accuracy: Automatically positioned to the address Activity Code: 6.8 A(1) (D) (I) Activity Description: Animal Vegetable & Food; Treating Etc Animal Raw Materials (Not Milk) For Food >75T/D Primary Activity: Y	A8SW (S)	866	2	441763 475291

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
20	**Integrated Pollution Prevention And Control** Name: Wagg Foods Ltd Location: Dalton Airfield, Dalton, Thirsk, North Yorkshire, YO7 3HE Authority: Environment Agency, North East Region Permit Reference: Bq0526iz Original Permit Ref: Bq0526iz Effective Date: 11th January 2005 **Status:** **Superseded By Variation** Application Type: Application App. Sub Type: New Positional Accuracy: Automatically positioned to the address Activity Code: 6.8 A(1) (D) (I) Activity Description: Animal Vegetable & Food; Treating Etc Animal Raw Materials (Not Milk) For Food >75T/D Primary Activity: Y	A8SW (S)	866	2	441763 475291
21	**Integrated Pollution Prevention And Control** Name: J.C Lister Farms Ltd Location: Richmond Farm Cottage, Topcliffe Common, Topcliffe, Thirsk, North Yorkshire, YO7 3HW Authority: Environment Agency, North East Region Permit Reference: CP3630UA Original Permit Ref: Cp3630ua Effective Date: 1st August 2007 **Status:** **Superseded By Variation** Application Type: Application App. Sub Type: New Positional Accuracy: Automatically positioned to the address Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N Activity Code: 6.9 A(1) a) (ii) Activity Description: Intensive Farming; > 2,000 Pigs (Production Pigs) Primary Activity: Y	A18NW (N)	908	2	441491 477260
22	**Local Authority Integrated Pollution Prevention And Control** Name: Severfield Reeve Structures Ltd Location: Dalton Airfield Industrial Estate, Dalton, Thirsk, North Yorkshire, Yo7 3jn Authority: Hambleton District Council, Planning & Environmental Services Permit Reference: HDC/LA-IPPC/03/01 Dated: 11th February 2005 Process Type: Other Activities Description: Coating Activity **Status:** **Permit Issued** Positional Accuracy: Located by supplier to within 100m	A8SE (S)	694	3	442000 475500
23	**Local Authority Pollution Prevention and Controls** Name: John Smith & Sons Location: Dalton Industrial Estate, Dalton, Thirsk, North Yorkshire, Yo7 3he Authority: Hambleton District Council, Planning & Environmental Services Permit Reference: B008 Dated: 22nd October 2003 Process Type: Local Authority Pollution Prevention and Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input **Status:** **Permitted** Positional Accuracy: Located by supplier to within 100m	A13NE (NE)	114	3	442000 476400
24	**Local Authority Pollution Prevention and Controls** Name: Cod Beck Blenders Location: Dalton Lane, Dalton, THIRSK, North Yorkshire, YO7 3HR Authority: Hambleton District Council, Planning & Environmental Services Permit Reference: AB1690 Dated: 30th August 1991 Process Type: Application (pre- April 1991) under SI 318, 1989 The Control of Industrial Air Pollution (Registration of Works) Regulations 1989 Description: Processes registered under S. 9 of the Alkali Act 1906 and S. 5 of the Health & Safety at Work Act 1974 **Status:** **Authorisation revoked** Positional Accuracy: Manually positioned to the address or location	A13NE (NE)	183	3	441991 476564
25	**Local Authority Pollution Prevention and Controls** Name: Brockhills Of Yorkshire Ltd Location: Dalton Lane, Dalton, YO7 3HR Authority: Hambleton District Council, Planning & Environmental Services Permit Reference: B002 Dated: 22nd October 2003 Process Type: Local Authority Pollution Prevention and Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input **Status:** **Application Refused Or Cancelled** Positional Accuracy: Located by supplier to within 100m	A14NE (E)	624	3	442500 476500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	**Local Authority Pollution Prevention and Controls** Name: Premier Poultry Ltd Location: Eldmire Mill, Dalton Airfield Industrial Estate, THIRSK, North Yorkshire, YO7 3HE Authority: Hambleton District Council, Planning & Environmental Services Permit Reference: Not Given Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG6/26 Animal feed compounding **Status:** **Authorisation revoked** Positional Accuracy: Automatically positioned to the address	A8SW (S)	633	3	441639 475534
27	**Local Authority Pollution Prevention and Controls** Name: Bostik Ltd Location: Eldmire Mill, Dalton Airfield Industrial Estate, Thirsk, North Yorkshire, Yo7 3he Authority: Hambleton District Council, Planning & Environmental Services Permit Reference: B050 Dated: 26th October 2004 Process Type: Local Authority Pollution Prevention and Control Description: PG3/1Blending, packing, loading and use of bulk cement **Status:** **Permitted** Positional Accuracy: Located by supplier to within 100m	A8SW (S)	673	3	441600 475500
28	**Local Authority Pollution Prevention and Controls** Name: Severfield Reeve Structures Ltd Location: Dalton Airfield Industrial Estate, Dalton, THIRSK, North Yorkshire, YO7 3JN Authority: Hambleton District Council, Planning & Environmental Services Permit Reference: A201 Dated: 11th February 2005 Process Type: Local Authority Pollution Prevention and Control Description: Part B - General Coating Process (No Specific Reference) **Status:** **Transferred to LAIPPC** Positional Accuracy: Located by supplier to within 100m	A8SE (S)	694	3	442000 475500
29	**Local Authority Pollution Prevention and Controls** Name: Provimi Ltd Location: Maple Mill, Dalton Airfield Industrial Estate, Dalton, Thirsk, YO7 3HE Authority: Hambleton District Council, Planning & Environmental Services Permit Reference: B056 Dated: 26th January 2005 Process Type: Local Authority Pollution Prevention and Control Description: PG6/26 Animal feed compounding **Status:** **Permitted** Positional Accuracy: Located by supplier to within 100m	A9NE (SE)	699	3	442500 475800
30	**Local Authority Pollution Prevention and Controls** Name: Greif Flexibles Uk Ltd Location: Dalton Airfield, Dalton, Thirsk, Yo7 3he Authority: Hambleton District Council, Planning & Environmental Services Permit Reference: B064 Dated: 30th October 2008 Process Type: Local Authority Pollution Prevention and Control Description: PG6/16 Printworks **Status:** **Permitted** Positional Accuracy: Manually positioned to the address or location	A8SE (S)	742	3	441988 475449
31	**Local Authority Pollution Prevention and Controls** Name: Yorkshire Pine Location: Dalton Airfield Ind Estate, Dalton, THIRSK, YO7 3HE Authority: Hambleton District Council, Planning & Environmental Services Permit Reference: Not Given Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG6/2 Manufacture of timber and wood-based products **Status:** **Authorisation revoked** Positional Accuracy: Manually positioned within the geographical locality	A8SE (S)	771	3	441877 475398
32	**Local Authority Pollution Prevention and Controls** Name: Jalna Accident Repair Centre Ltd Location: Dalton Airfield Industrial Estate, Dalton, Thirsk, North Yorkshire, Yo7 3he Authority: Hambleton District Council, Planning & Environmental Services Permit Reference: HDC/LAPPC/04/03/V4 Dated: 2nd July 2004 Process Type: Local Authority Pollution Prevention and Control Description: PG6/34 Respraying of road vehicles **Status:** **Permitted** Positional Accuracy: Located by supplier to within 100m	A8SW (S)	869	3	441600 475300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
33	**Local Authority Pollution Prevention and Controls** Name: Springfield Garage Ltd Location: Dalton, Thirsk, Yo7 3hs Authority: Hambleton District Council, Planning & Environmental Services Permit Reference: B020 Dated: 18th February 2009 Process Type: Local Authority Pollution Prevention and Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input **Status: Permitted** Positional Accuracy: Manually positioned to the address or location	A14SE (E)	898	3	442815 476286
	Nearest Surface Water Feature	A13NW (NW)	139	-	441632 476498
34	**Pollution Incidents to Controlled Waters** Property Type: Farm Location: THIRSK Authority: Environment Agency, North East Region Pollutant: Miscellaneous - Unknown Note: Not Supplied Incident Date: 7th February 1994 Incident Reference: 150769 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18SW (N)	293	2	441800 476700
35	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Sewage Treatment Works Location: Crake Hill Stn/Leckby Mea St Swale 05 Authority: Environment Agency, North East Region Pollutant: Unknown Note: Not Supplied Incident Date: 20th July 1990 Incident Reference: 116231 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	621	2	442300 475700
36	**Pollution Incidents to Controlled Waters** Property Type: Industrial Premises Location: Mouth/Source Cod Beck Af Authority: Environment Agency, North East Region Pollutant: Miscellaneous - Vehicle Washings And De Waxing Note: Not Supplied Incident Date: 24th October 1990 Incident Reference: 117497 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SW (W)	644	2	441100 476100
36	**Pollution Incidents to Controlled Waters** Property Type: Industrial Premises Location: Mouth/Source Cod Beck Af Authority: Environment Agency, North East Region Pollutant: Miscellaneous - Vehicle Washings And De Waxing Note: Not Supplied Incident Date: 25th October 1990 Incident Reference: 117498 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SW (W)	645	2	441100 476095
37	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Sewage Treatment Works Location: Leckby Mea Stn, /Topcliffe Bridge Swale 06 Authority: Environment Agency, North East Region Pollutant: Unknown Note: Not Supplied Incident Date: 30th June 1993 Incident Reference: 146844 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SW (S)	673	2	441600 475500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
38	**Pollution Incidents to Controlled Waters** Property Type: Industrial Premises Location: Crake Hill Stn/Leckby Mea St Swale 05 Authority: Environment Agency, North East Region Pollutant: Oils - Unknown Note: Not Supplied Incident Date: 10th November 1989 Incident Reference: 106415 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A8SE (S)	675	2	441900 475500
39	**Pollution Incidents to Controlled Waters** Property Type: Industrial Premises Location: Leckby Mea Stn, /Topcliffe Bridge Swale 06 Authority: Environment Agency, North East Region Pollutant: Oils - Gas Oil Note: Not Supplied Incident Date: 15th November 1991 Incident Reference: 130178 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	746	2	442200 475500
40	**Pollution Incidents to Controlled Waters** Property Type: Fire Water Location: Dalton Road Bridge, Cod Beck Authority: Environment Agency, North East Region Pollutant: Miscellaneous - Unknown Note: Swale; Fisheries Affected; 11-200 Fish Killed Incident Date: 11th August 1998 Incident Reference: DT980361 Catchment Area: Swale Tributaries Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A12SW (W)	761	2	441000 476000
41	**Pollution Incidents to Controlled Waters** Property Type: Miscellaneous Premises: Unknown Location: Leckby Mea Stn, /Topcliffe Bridge Swale 06 Authority: Environment Agency, North East Region Pollutant: Unknown Note: Not Supplied Incident Date: 20th December 1989 Incident Reference: 109388 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	878	2	442300 475400
42	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Foul Sewer Location: DALTON-LE-DALE Authority: Environment Agency, North East Region Pollutant: Unknown Sewage Note: Not Supplied Incident Date: 7th August 1990 Incident Reference: 114451 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A15NW (E)	984	2	442900 476300
	River Quality Name: Cod_Beck GQA Grade: River Quality B Reach: Willow_Beck_Thacker_Bec Estimated Distance (km): 2.1 Flow Rate: Flow less than 1.25 cumecs Flow Type: River Year: 2000	A13NW (NW)	0	2	441702 476346

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	River Quality Name: Cod_Beck GQA Grade: River Quality B Reach: Thacker_Beck_River_Swal Estimated Distance (km): 1.4 Flow Rate: Flow less than 1.25 cumecs Flow Type: River Year: 2000	A12SE (SW)	629	2	441138 475988
	River Quality Name: Cod_Beck GQA Grade: River Quality B Reach: Paradise_Beck_Willow_Bec Estimated Distance (km): .3 Flow Rate: Flow less than 1.25 cumecs Flow Type: River Year: 2000	A19SE (NE)	865	2	442709 476669
	River Quality Name: Willow/Isle/Thirkleby/Sut GQA Grade: River Quality B Reach: Carr_Dike_Cod_Bec Estimated Distance (km): 4.8 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A19SE (NE)	865	2	442709 476669
	River Quality Name: Cod_Beck GQA Grade: River Quality B Reach: Whitelass_Beck_Paradise_Bec Estimated Distance (km): 3.4 Flow Rate: Flow less than 0.62 cumecs Flow Type: River Year: 2000	A19SE (NE)	875	2	442654 476828
43	**River Quality Biology Sampling Points** Name: Cod Beck Reach: Thacker Beck To River Swale Estimated Distance: 1.40 Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Biology GQA Grade B - Good Year: 1995 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2000 GQA Grade: River Quality Biology GQA Grade C - Fairly Good Year: 2002 GQA Grade: River Quality Biology GQA Grade C - Fairly Good Year: 2003 GQA Grade: River Quality Biology GQA Grade C - Fairly Good Year: 2004 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2005 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2006 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2007 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2008 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2009 GQA Grade: River Quality Biology GQA Grade A - Very Good	A12SW (SW)	732	2	441041 475954

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
44	**River Quality Biology Sampling Points** Name: Cod Beck Reach: Willow Beck To Thacker Beck Estimated Distance: 2.10 Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Biology GQA Grade B - Good Year: 1995 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2000 GQA Grade: River Quality Biology GQA Grade C - Fairly Good Year: 2002 GQA Grade: River Quality Biology GQA Grade C - Fairly Good Year: 2003 GQA Grade: River Quality Biology GQA Grade C - Fairly Good Year: 2004 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2005 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2006 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2007 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2008 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2009 GQA Grade: River Quality Biology GQA Grade A - Very Good	A19SE (NE)	899	2	442652 476880
45	**River Quality Biology Sampling Points** Name: Cod Beck Reach: Paradise Beck To Willow Beck Estimated Distance: 0.30 Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Biology GQA Grade B - Good Year: 1995 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2000 GQA Grade: River Quality Biology GQA Grade C - Fairly Good Year: 2002 GQA Grade: River Quality Biology GQA Grade C - Fairly Good Year: 2003 GQA Grade: River Quality Biology GQA Grade C - Fairly Good Year: 2004 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2005 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2006 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2007 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2008 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2009 GQA Grade: River Quality Biology GQA Grade A - Very Good	A19NE (NE)	980	2	442633 477046

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
46	**River Quality Chemistry Sampling Points** Name: Cod Beck Reach: Thacker Beck River Swale Estimated Distance: 1.40 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2009 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied	A12SW (W)	684	2	441067 476061

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
46	**River Quality Chemistry Sampling Points** Name: Cod Beck Reach: Willow Beck To Thacker Beck Estimated Distance: 2.10 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2009 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied	A12SW (W)	684	2	441067 476061

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
46	**River Quality Chemistry Sampling Points** Name: Cod Beck Reach: Paradise Beck Willow Beck Estimated Distance: 0.30 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2009 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied	A12SW (W)	684	2	441067 476061

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
46	**River Quality Chemistry Sampling Points** Name: Willow/Isle/Sutton Bks Reach: Carr Dike To Cod Beck Estimated Distance: 4.80 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: Not Supplied Compliance: Not Supplied Year: 1993 GQA Grade: Not Supplied Compliance: Not Supplied Year: 1994 GQA Grade: Not Supplied Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2009 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied	A12SW (W)	684	2	441067 476061

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
46	**River Quality Chemistry Sampling Points** Name: Willow/Isle/Sutton Bks Reach: Hood Beck To Carr Dike Estimated Distance: 3.40 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: Not Supplied Compliance: Not Supplied Year: 1993 GQA Grade: Not Supplied Compliance: Not Supplied Year: 1994 GQA Grade: Not Supplied Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2009 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied	A12SW (W)	684	2	441067 476061
47	**Water Abstractions** Operator: Moorland Poultry Ltd Licence Number: 2/27/23/554 Permit Version: 100 Location: Borehole - Sherwood Sandstone - Dalton Authority: Environment Agency, North East Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 23 Yearly Rate (m3): 6500 Details: Eldmire Turkey Unit, Dalton, Thirsk, North Yorkshire Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 23rd April 1996 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SW (SW)	255	2	441490 476130

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
48	**Water Abstractions** Operator: Hambleton Holdings Licence Number: 2/27/23/364 Permit Version: 100 Location: Borehole - Sherwood Sandstone - Dalton Authority: Environment Agency, North East Region Abstraction: Commercial Private Water Undertaking: Drinking; Cooking; Sanitary; Washing; (Small Garden) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 9 Yearly Rate (m3): 3318 Details: Dalton Airfield, Dalton, Thirsk Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st December 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	654	2	442200 475600
49	**Water Abstractions** Operator: J C Lister Farms Ltd Licence Number: 2/27/23/626 Permit Version: 100 Location: Borehole - Sherwood Sandstone - Topcliffe Common Authority: Environment Agency, North East Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 1520 Yearly Rate (m3): 68181 Details: Richmond Farm & Gristhwaite Farm,Topcliffe Common,Thirsk,North Yorkshire Authorised Start: 01 April Authorised End: 30 September Permit Start Date: 21st January 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A18NW (N)	752	2	441660 477140
49	**Water Abstractions** Operator: J C Lister Farms Ltd Licence Number: 2/27/23/621 Permit Version: 100 Location: Borehole - Sherwood Sandstone - Topcliffe Authority: Environment Agency, North East Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 50 Yearly Rate (m3): 14000 Details: Richmond Farm & Gristhwaite Farm,Topcliffe Common, Topcliffe, Thirsk,North Yorkshire Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A18NW (N)	764	2	441650 477150
49	**Water Abstractions** Operator: J C Lister Farms Ltd Licence Number: 2/27/23/681/R01 Permit Version: 1 Location: Borehole - Sherwood Sandstone - Topcliffe Common Authority: Environment Agency, North East Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 30 September Permit Start Date: 1st April 2017 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18NW (N)	767	2	441652 477154

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
49	**Water Abstractions** Operator: J C Lister Farms Ltd Licence Number: 2/27/23/681 Permit Version: 1 Location: Borehole - Sherwood Sandstone - Topcliffe Common Authority: Environment Agency, North East Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Richmond Farm & Gristhwaite Farm,Topcliffe Common,Thirsk,North Yorkshire Authorised Start: 01 April Authorised End: 30 September Permit Start Date: 1st April 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18NW (N)	767	2	441652 477154
50	**Water Abstractions** Operator: Brandons Plc Licence Number: 2/27/23/669 Permit Version: 1 Location: Borehole - Sherwood Sandstone - Dalton Authority: Environment Agency, North East Region Abstraction: Food And Drink: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: The Factory Premises, The Moor, Dalton, Thirsk, North Yorkshire Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st January 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8SW (S)	765	2	441540 475420
50	**Water Abstractions** Operator: Brandons Plc Licence Number: 2/27/23/597 Permit Version: 101 Location: Borehole - Sherwood Sandstone - Dalton Authority: Environment Agency, North East Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: The Factory,Dalton, Thirsk,North Yorkshire Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st May 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8SW (S)	765	2	441540 475420
50	**Water Abstractions** Operator: Moorland Poultry Ltd C/O I King (Engineering Manager) Licence Number: 2/27/23/597 Permit Version: 100 Location: Borehole - Sherwood Sandstone - Dalton Authority: Environment Agency, North East Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 1500 Yearly Rate (m3): 400000 Details: The Factory,Dalton, Thirsk,North Yorkshire Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st July 1997 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A8SW (S)	765	2	441540 475420

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
51	**Water Abstractions** Operator: Preston Properties Licence Number: 2/27/23/694 Permit Version: 1 Location: Borehole - Sherwood Sandstone - Thirsk Authority: Environment Agency, North East Region Abstraction: Commercial Private Water Undertaking: Drinking; Cooking; Sanitary; Washing; (Small Garden) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Dalton Airfield Industrial Estate, Dalton, Thirsk, North Yorkshire Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 25th January 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	767	2	442290 475520
52	**Water Abstractions** Operator: Niagara Farms Ltd Licence Number: Ne/027/0023/041 Permit Version: 1 Location: Willow Beck At Paradise Farm Authority: Environment Agency, North East Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 31st August 2017 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A19SE (NE)	863	2	442635 476838
52	**Water Abstractions** Operator: Guy Reed Farms Licence Number: 2/27/23/118 Permit Version: 100 Location: Willow Beck - Dalton Authority: Environment Agency, North East Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Paradise Farm, Islebeck, Thirsk, North Yorkshire Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 28th October 1996 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A19SE (NE)	864	2	442640 476830
53	**Water Abstractions** Operator: J C Lister Farms Ltd Licence Number: 2/27/23/420 Permit Version: 100 Location: Cod Beck - Thirsk Authority: Environment Agency, North East Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): 617 Yearly Rate (m3): 30840 Details: Gristhwaite & Cod Beck Farms,Gristhwaite,Thirsk,North Yorkshire Authorised Start: 01 April Authorised End: 30 September Permit Start Date: 5th September 1996 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	875	2	442590 476930

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
54	**Water Abstractions** Operator: Guy Reed Farms Licence Number: 2/27/23/118 Permit Version: 100 Location: Paradise Beck - Dalton Authority: Environment Agency, North East Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Paradise Farm, Islebeck, Thirsk, North Yorkshire Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 28th October 1996 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A19NE (NE)	928	2	442620 476980
54	**Water Abstractions** Operator: Niagara Farms Ltd Licence Number: Ne/027/0023/041 Permit Version: 1 Location: Paradise Beck At Paradise Farm Authority: Environment Agency, North East Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 31st August 2017 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A19NE (NE)	942	2	442632 476986
	Water Abstractions Operator: J R & M J Wilkinson Licence Number: 2/27/23/565 Permit Version: 101 Location: River Swale - Eldmire Authority: Environment Agency, North East Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): 1 Yearly Rate (m3): 46250 Details: Eldmire Ings, Sessay,Thirsk,North Yorkshire Authorised Start: 01 April Authorised End: 30 September Permit Start Date: 4th May 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3SW (S)	1334	2	441480 474850
	Water Abstractions Operator: J R & T K Wilkinson Licence Number: 2/27/23/464 Permit Version: Not Supplied Location: River Swale Pump Authority: Environment Agency, North East Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 1284 Yearly Rate (m3): 46250 Details: Not Supplied 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	A3SW (S)	1334	2	441480 474850

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Guy Reed Farms Licence Number: 2/27/23/118 Permit Version: 100 Location: Cod Beck - Dalton Authority: Environment Agency, North East Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): 1827 Yearly Rate (m3): 71910 Details: Paradise Farm, Islebeck, Thirsk, North Yorkshire Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 28th October 1996 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A24NE (NE)	1620	2	442620 477860
	Water Abstractions Operator: Niagara Farms Ltd Licence Number: Ne/027/0023/041 Permit Version: 1 Location: Cod Beck At Paradise Farm Authority: Environment Agency, North East Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 31st August 2017 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A24NE (NE)	1624	2	442627 477861
	Water Abstractions Operator: Guy Reed Farms Licence Number: Ne/027/0023/039 Permit Version: 1 Location: River Swale At Asenby Authority: Environment Agency, North East Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 May Authorised End: 30 September Permit Start Date: 7th September 2017 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A6SW (SW)	1651	2	440205 475560
	Water Abstractions Operator: David Sanderson Robinson Licence Number: 2/27/23/425 Permit Version: Not Supplied Location: Willow Beck Pump Authority: Environment Agency, North East Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 720 Yearly Rate (m3): 12360 Details: Not Supplied 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	(E)	1904	2	443700 476980

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Eric Christopher Reeder Licence Number: 2/27/23/370 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, North East Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 230 Yearly Rate (m3): 3410 Details: Licence Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(W)	1924	2	439800 476100
	Water Abstractions Operator: Guy Reed Farms Licence Number: 2/27/23/328 Permit Version: 100 Location: River Swale - Rainton Authority: Environment Agency, North East Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): 1027 Yearly Rate (m3): 30822 Details: Bridgefield,Northfield Bonney Carr,Early Bird Field & Rainton Road Field,Rainton,N Yorkshire Authorised Start: 01 May Authorised End: 30 September Permit Start Date: 9th August 1977 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(W)	1959	2	439800 475900
	Water Abstractions Operator: Guy Reed Farms Licence Number: Ne/027/0023/039 Permit Version: 1 Location: River Swale At Topcliffe Authority: Environment Agency, North East Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 May Authorised End: 30 September Permit Start Date: 7th September 2017 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(W)	1972	2	439822 475717
	Groundwater Vulnerability Soil Classification: Not classified Map Sheet: Sheet 8 Central North Yorkshire Scale: 1:100,000	A13SE (S)	0	2	441838 476208
	Groundwater Vulnerability Soil Classification: Soils of High Leaching Potential (H2) - Deep, permeable, coarse textured soils which readily transmit a wide range of pollutants because of their rapid drainage and low attenuation potential Map Sheet: Sheet 8 Central North Yorkshire Scale: 1:100,000	A13SE (NE)	0	2	441813 476287
	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 8 Central North Yorkshire Scale: 1:100,000	A13NW (N)	0	2	441805 476328
	Drift Deposits None				
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - B	A13SE (NE)	0	4	441813 476287

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SE (NE)	0	4	441813 476287
	Superficial Aquifer Designations Aquifer Designation: Unproductive Strata	A13SE (S)	0	4	441827 476216
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NE (N)	0	2	441820 476384
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Fluvial Events Boundary Accuracy: As Supplied	A13NE (NE)	0	2	441859 476385
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NW (NW)	218	2	441621 476580
	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	A13NW (NW)	6	2	441754 476400
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
55	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1008.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Cod Beck Catchment Name: Ouse Yorkshire Primacy: 1	A13NW (NW)	142	5	441630 476499
56	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 229.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Cod Beck Catchment Name: Ouse Yorkshire Primacy: 1	A18SE (NE)	265	5	442009 476650
57	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 136.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ouse Yorkshire Primacy: 1	A18SE (N)	287	5	441953 476696
58	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 122.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Cod Beck Catchment Name: Ouse Yorkshire Primacy: 1	A13NE (NE)	328	5	442150 476606
59	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 132.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ouse Yorkshire Primacy: 2	A13NE (NE)	328	5	442150 476606

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
60	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ouse Yorkshire Primacy: 1	A18SE (NE)	387	5	442076 476753
61	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 334.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ouse Yorkshire Primacy: 1	A18SE (NE)	391	5	442081 476755
62	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 611.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Cod Beck Catchment Name: Ouse Yorkshire Primacy: 1	A14NW (NE)	419	5	442256 476604
63	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ouse Yorkshire Primacy: 2	A14NW (NE)	419	5	442256 476604
64	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 20.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ouse Yorkshire Primacy: 2	A14NW (NE)	420	5	442256 476606
65	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 588.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ouse Yorkshire Primacy: 1	A12NE (NW)	423	5	441313 476543
66	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ouse Yorkshire Primacy: 1	A17SE (NW)	436	5	441431 476718
67	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 386.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ouse Yorkshire Primacy: 1	A17SE (NW)	437	5	441434 476722
68	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 393.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Cod Beck Catchment Name: Ouse Yorkshire Primacy: 1	A12SW (W)	591	5	441121 476279

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
69	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 300.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ouse Yorkshire Primacy: 1	A18NW (N)	620	5	441671 477008
70	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 7.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ouse Yorkshire Primacy: 1	A19NW (NE)	711	5	442284 477004
71	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1743.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Cod Beck Catchment Name: Ouse Yorkshire Primacy: 1	A7NW (SW)	744	5	441104 475777
72	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 71.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Thacker Beck Catchment Name: Ouse Yorkshire Primacy: 1	A12SW (W)	770	5	440988 476002
73	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 39.9 Watercourse Level: Underground Permanent: True Watercourse Name: Thacker Beck Catchment Name: Ouse Yorkshire Primacy: 1	A12SW (W)	773	5	440982 476023
74	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 183.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Thacker Beck Catchment Name: Ouse Yorkshire Primacy: 1	A12SW (W)	777	5	440977 476040
75	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 11.4 Watercourse Level: Underground Permanent: True Watercourse Name: Thacker Beck Catchment Name: Ouse Yorkshire Primacy: 1	A12NW (W)	812	5	440896 476294
76	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 129.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Thacker Beck Catchment Name: Ouse Yorkshire Primacy: 1	A12NW (W)	812	5	440895 476305
77	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 104.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Thacker Beck Catchment Name: Ouse Yorkshire Primacy: 1	A12SW (W)	813	5	440899 476223

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
78	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 202.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ouse Yorkshire Primacy: 1	A9SW (SE)	834	5	442467 475562
79	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 776.9 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Ouse Yorkshire Primacy: 1	A9SW (SE)	834	5	442448 475545
80	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 95.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Thacker Beck Catchment Name: Ouse Yorkshire Primacy: 1	A12NW (W)	848	5	440857 476428
81	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 162.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Cod Beck Catchment Name: Ouse Yorkshire Primacy: 1	A19SE (NE)	861	5	442637 476830
82	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Willow Beck Catchment Name: Ouse Yorkshire Primacy: 1	A19SE (NE)	861	5	442637 476830
83	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 210.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Willow Beck Catchment Name: Ouse Yorkshire Primacy: 1	A19SE (NE)	863	5	442639 476831
84	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 7.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Thacker Beck Catchment Name: Ouse Yorkshire Primacy: 1	A12NW (W)	897	5	440817 476514
85	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.4 Watercourse Level: Underground Permanent: True Watercourse Name: Thacker Beck Catchment Name: Ouse Yorkshire Primacy: 1	A12NW (W)	900	5	440816 476522
86	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 642.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Thacker Beck Catchment Name: Ouse Yorkshire Primacy: 1	A12NW (W)	902	5	440814 476523

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
87	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 518.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ouse Yorkshire Primacy: 1	A18NW (N)	917	5	441616 477299
88	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Paradise Beck Catchment Name: Ouse Yorkshire Primacy: 1	A19NE (NE)	928	5	442619 476981
89	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 278.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Cod Beck Catchment Name: Ouse Yorkshire Primacy: 1	A19NE (NE)	928	5	442619 476981
90	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 721.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Paradise Beck Catchment Name: Ouse Yorkshire Primacy: 1	A19NE (NE)	930	5	442622 476979
91	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 419.6 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Ouse Yorkshire Primacy: 1	A9SE (SE)	949	5	442654 475589
92	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 142.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Old Beck Catchment Name: Ouse Yorkshire Primacy: 1	A19SE (E)	955	5	442798 476694
93	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 299.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Willow Beck Catchment Name: Ouse Yorkshire Primacy: 1	A19SE (NE)	959	5	442755 476811
94	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 98.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Old Beck Catchment Name: Ouse Yorkshire Primacy: 1	A19SE (E)	964	5	442808 476683
95	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 403.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Dugdale Beck Catchment Name: Ouse Yorkshire Primacy: 1	A19NW (NE)	993	5	442457 477227

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Hambleton District Council - Has no landfill data to supply		0	3	441813 476287
	Local Authority Landfill Coverage Name: North Yorkshire County Council - Has no landfill data to supply		0	6	441813 476287

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Triassic Rocks (Undifferentiated)	A13SE (NE)	0	1	441813 476287
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	0	1	441813 476287
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	21	1	441724 476417
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	232	1	441590 476581
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	0	1	441827 476216
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	0	1	441813 476287
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	162	1	442089 476223
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	232	1	441590 476581
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	0	1	441813 476287
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	0	1	441813 476287
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	0	1	441827 476216
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	0	1	441813 476287
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	21	1	441724 476417
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	162	1	442089 476223
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	232	1	441590 476581
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	0	1	441827 476216
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	0	1	441813 476287
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	21	1	441724 476417
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	162	1	442089 476223

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	232	1	441590 476581
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	0	1	441813 476287
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	0	1	441813 476287

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
96	**Contemporary Trade Directory Entries** Name: John Smith & Sons Ltd Location: Dalton Airfield, Dalton, Thirsk, North Yorkshire, YO7 3HE Classification: Bus & Coach Operators & Stations **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	160	-	442034 476466
96	**Contemporary Trade Directory Entries** Name: Linkem Associates Uk Ltd Location: Cod Beck Mill Industrial Estate, Dalton Lane, Dalton, Thirsk, North Yorkshire, YO7 3HR Classification: Pet Foods & Animal Feeds **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A13NE (NE)	161	-	442034 476466
96	**Contemporary Trade Directory Entries** Name: David Pullan Transport Ltd Location: Dalton Lane, Dalton, Thirsk, North Yorkshire, YO7 3HR Classification: Road Haulage Services **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A13NE (NE)	161	-	442034 476466
96	**Contemporary Trade Directory Entries** Name: Cod Beck Blenders Ltd Location: Cod Beck Mill Industrial Estate, Dalton Lane, Dalton, Thirsk, YO7 3HR Classification: Chemicals & Allied Products **Status: Active** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	177	-	442031 476512
97	**Contemporary Trade Directory Entries** Name: Metro International Traders Location: Cod Beck Est,Dalton La, Dalton, Thirsk, North Yorkshire, YO7 3HR Classification: Chemicals & Allied Products **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A13NE (NE)	181	-	441990 476563
98	**Contemporary Trade Directory Entries** Name: Ripon 4x4 Ltd Location: Greystones, Dalton Lane, Dalton, Thirsk, North Yorkshire, YO7 3HR Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A12SE (W)	470	-	441252 476239
99	**Contemporary Trade Directory Entries** Name: Maynegroup Location: Dalton Airfield Indust Est, Dalton, Thirsk, North Yorkshire, YO7 3HE Classification: Machinery - Industrial & Commercial **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A8NW (S)	539	-	441728 475618
100	**Contemporary Trade Directory Entries** Name: Alan C Dale Location: Dalton Indust Est, Dalton, Thirsk, North Yorkshire, YO7 3HE Classification: Road Haulage Services **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A8SE (S)	587	-	441871 475584
101	**Contemporary Trade Directory Entries** Name: N & C Transport Location: The Old Saw Mill,Dalton La, Dalton, Thirsk, North Yorkshire, YO7 3HS Classification: Road Haulage Services **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A14NE (E)	612	-	442508 476394
102	**Contemporary Trade Directory Entries** Name: Cargill Location: S C A Mill, Dalton Airfield, Dalton, Thirsk, YO7 3HE Classification: Pet Foods & Animal Feeds **Status: Active** Positional Accuracy: Automatically positioned to the address	A8SW (S)	705	-	441769 475453
102	**Contemporary Trade Directory Entries** Name: Provimi Ltd Location: S C A Mill, Dalton Airfield, Dalton, Thirsk, YO7 3HE Classification: Pet Foods & Animal Feeds **Status: Active** Positional Accuracy: Automatically positioned to the address	A8SW (S)	705	-	441769 475453

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
102	**Contemporary Trade Directory Entries** Name: Cargill Location: S C A Mill, Dalton Airfield, Dalton, Thirsk, North Yorkshire, YO7 3HE Classification: Pet Foods & Animal Feeds **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8SW (S)	708	-	441767 475450
102	**Contemporary Trade Directory Entries** Name: Top Number Feeds Location: Maple Mill, Dalton Airfield, Dalton, Thirsk, North Yorkshire, YO7 3HE Classification: Pet Foods & Animal Feeds **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8SW (S)	708	-	441767 475450
103	**Contemporary Trade Directory Entries** Name: Wetherby Stone Products Location: Dalton Airfield, Dalton, Thirsk, North Yorkshire, YO7 3HE Classification: Stone Products - Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A8SW (S)	708	-	441566 475472
103	**Contemporary Trade Directory Entries** Name: Wetherby Stone Products Ltd Location: Dalton Airfield, Dalton, Thirsk, North Yorkshire, YO7 3HE Classification: Powder Coatings **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8SW (S)	738	-	441570 475441
103	**Contemporary Trade Directory Entries** Name: Wetherby Group Location: Wetherby Stone, Dalton Old Airfield Industrial Estate, Dalton, YO7 3HE Classification: Paint Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A8SW (S)	758	-	441545 475426
104	**Contemporary Trade Directory Entries** Name: North Yorkshire Commercials Ltd Location: Dalton Airfield, Dalton, Thirsk, North Yorkshire, YO7 3HE Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories **Status: Active** Positional Accuracy: Automatically positioned to the address	A8SE (S)	711	-	441818 475450
105	**Contemporary Trade Directory Entries** Name: Greif Flexibles Uk Ltd Location: Dalton Airfield, Dalton, Thirsk, North Yorkshire, YO7 3HE Classification: Packaging & Wrapping Equipment & Supplies **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8SE (S)	742	-	441988 475449
105	**Contemporary Trade Directory Entries** Name: Dorton Packaging Ltd Location: Dalton Airfield, Dalton, Thirsk, North Yorkshire, YO7 3HE Classification: Packaging Materials Manufacturers & Suppliers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8SE (S)	742	-	441988 475449
105	**Contemporary Trade Directory Entries** Name: Storesack (Uk) Ltd Location: Dalton Airfield, Dalton, Thirsk, North Yorkshire, YO7 3HE Classification: Bags, Belts & Accessories - Manufacturers & Suppliers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8SE (S)	742	-	441988 475449
106	**Contemporary Trade Directory Entries** Name: Dalton Transport & Storage Ltd Location: Dalton Lane, Dalton, Thirsk, North Yorkshire, YO7 3HR Classification: Road Haulage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A14SE (E)	764	-	442685 476196
107	**Contemporary Trade Directory Entries** Name: Stonefix Location: Dalton Airfield, Dalton, Thirsk, North Yorkshire, YO7 3HE Classification: Concrete Products **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A8SW (S)	773	-	441686 475386
107	**Contemporary Trade Directory Entries** Name: Jalna Accident Repair Centre Ltd Location: Dalton Airfield, Dalton, Thirsk, North Yorkshire, YO7 3HE Classification: Commercial Vehicle Bodybuilders & Repairers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8SW (S)	773	-	441686 475386

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
108	**Contemporary Trade Directory Entries** Name: Lloyd Fraser Bulk Liquids Ltd Location: Dalton Airfield, Dalton, Thirsk, North Yorkshire, YO7 3HE Classification: Road Haulage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8SW (S)	798	-	441628 475368
109	**Contemporary Trade Directory Entries** Name: Brockhills Of Yorkshire Location: Dalton Lane, Dalton, Thirsk, North Yorkshire, YO7 3HR Classification: Agricultural Engineers **Status: Active** Positional Accuracy: Automatically positioned to the address	A14SE (E)	803	-	442723 476143
110	**Contemporary Trade Directory Entries** Name: Greif Location: Dalton Airfield, Dalton, Thirsk, North Yorkshire, YO7 3HE Classification: Packaging Materials Manufacturers & Suppliers **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A8SW (S)	866	-	441763 475291
110	**Contemporary Trade Directory Entries** Name: Wagg Foods Ltd Location: Dalton Airfield, Dalton, Thirsk, North Yorkshire, YO7 3HE Classification: Pet Foods & Animal Feeds **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8SW (S)	866	-	441763 475291
110	**Contemporary Trade Directory Entries** Name: Wagg Foods Location: Dalton Airfield, Dalton, THIRSK, North Yorkshire, YO7 3HE Classification: Pet Foods & Animal Feeds **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8SW (S)	866	-	441763 475291
110	**Contemporary Trade Directory Entries** Name: Wagg Foods Location: Dalton Airfield, Dalton, Thirsk, North Yorkshire, YO7 3HE Classification: Pet Foods & Animal Feeds **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8SW (S)	866	-	441763 475291
111	**Contemporary Trade Directory Entries** Name: Firmenich Uk Ltd Location: Dalton Airfield, Dalton, Thirsk, North Yorkshire, YO7 3HE Classification: Food Products - Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A8SW (S)	875	-	441537 475308
112	**Contemporary Trade Directory Entries** Name: Dalton Motors (Thirsk) Ltd Location: Dalton, Thirsk, North Yorkshire, YO7 3HS Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NE (E)	895	-	442810 476301
112	**Contemporary Trade Directory Entries** Name: Springfield Garage Location: Dalton, Thirsk, YO7 3HS Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NE (E)	896	-	442811 476304
113	**Contemporary Trade Directory Entries** Name: Xtprint Location: Southland Farm, Dalton, Thirsk, North Yorkshire, YO7 3HS Classification: Printers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A15SW (E)	932	-	442838 476026

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Hambleton District Council - Planning & Environmental Services	January 2015	Annual Rolling Update
Harrogate Borough Council - Environmental Health	March 2015	Annual Rolling Update
Discharge Consents		
Environment Agency - North East Region	January 2019	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - North East Region	March 2013	Annual Rolling Update
Integrated Pollution Controls		
Environment Agency - North East Region	October 2008	Variable
Integrated Pollution Prevention And Control		
Environment Agency - North East Region	January 2019	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Harrogate Borough Council - Environmental Health	June 2014	Variable
Hambleton District Council - Planning & Environmental Services	May 2016	Variable
Local Authority Pollution Prevention and Controls		
Harrogate Borough Council - Environmental Health	June 2014	Annual Rolling Update
Hambleton District Council - Planning & Environmental Services	May 2016	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
Harrogate Borough Council - Environmental Health	June 2014	Variable
Hambleton District Council - Planning & Environmental Services	May 2016	Variable
Nearest Surface Water Feature		
Ordnance Survey	September 2017	
Pollution Incidents to Controlled Waters		
Environment Agency - North East Region	December 1998	Not Applicable
Prosecutions Relating to Authorised Processes		
Environment Agency - North East Region	March 2013	Annual Rolling Update
Prosecutions Relating to Controlled Waters		
Environment Agency - North East Region	March 2013	Annual Rolling Update
Registered Radioactive Substances		
Environment Agency - North East Region	June 2016	
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 East Region - Dales Area	January 2019	Quarterly
Environment Agency - North East Region - Yorkshire Area	January 2019	Quarterly
Water Abstractions		
Environment Agency - North East Region	January 2019	Quarterly
Water Industry Act Referrals		
Environment Agency - North East Region	October 2017	Quarterly
Groundwater Vulnerability		
Environment Agency - Head Office	April 2015	Not Applicable
Drift Deposits		
Environment Agency - Head Office	January 1999	Not Applicable
Bedrock Aquifer Designations		
Environment Agency - Head Office	January 2018	Annually
Superficial Aquifer Designations		
Environment Agency - Head Office	January 2018	Annually

Agency & Hydrological	Version	Update Cycle
Source Protection Zones		
Environment Agency - Head Office	January 2019	Quarterly
Extreme Flooding from Rivers or Sea without Defences		
Environment Agency - Head Office	August 2018	Quarterly
Flooding from Rivers or Sea without Defences		
Environment Agency - Head Office	August 2018	Quarterly
Areas Benefiting from Flood Defences		
Environment Agency - Head Office	August 2018	Quarterly
Flood Water Storage Areas		
Environment Agency - Head Office	August 2018	Quarterly
Flood Defences		
Environment Agency - Head Office	August 2018	Quarterly
OS Water Network Lines		
Ordnance Survey	October 2018	Quarterly
BGS Groundwater Flooding Susceptibility		
British Geological Survey - National Geoscience Information Service	May 2013	Annually
Waste	**Version**	**Update Cycle**
BGS Recorded Landfill Sites		
British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites		
Environment Agency - Head Office	July 2018	Quarterly
Integrated Pollution Control Registered Waste Sites		
Environment Agency - North East Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries)		
Environment Agency - North East Region - Dales Area	July 2018	Quarterly
Environment Agency - North East Region - Yorkshire Area	July 2018	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency - North East Region - Dales Area	January 2019	Quarterly
Environment Agency - North East Region - Yorkshire Area	January 2019	Quarterly
Local Authority Landfill Coverage		
Hambleton District Council - Planning & Environmental Services	May 2000	Not Applicable
Harrogate Borough Council - Environmental Health	May 2000	Not Applicable
North Yorkshire County Council	May 2000	Not Applicable
Local Authority Recorded Landfill Sites		
Hambleton District Council - Planning & Environmental Services	May 2000	Not Applicable
Harrogate Borough Council - Environmental Health	May 2000	Not Applicable
North Yorkshire County Council	May 2000	Not Applicable
Registered Landfill Sites		
Environment Agency - North East Region - Dales Area	March 2003	Not Applicable
Environment Agency - North East Region - Yorkshire Area	March 2003	Not Applicable
Registered Waste Transfer Sites		
Environment Agency - North East Region - Dales Area	March 2003	Not Applicable
Environment Agency - North East Region - Yorkshire Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites		
Environment Agency - North East Region - Dales Area	March 2003	Not Applicable
Environment Agency - North East Region - Yorkshire Area	March 2003	Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	April 2018	Bi-Annually
Explosive Sites		
Health and Safety Executive	March 2017	Variable
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements		
Hambleton District Council - Planning & Environmental Services	February 2016	Variable
Harrogate Borough Council	January 2016	Variable
North Yorkshire County Council	October 2007	Annual Rolling Update
Planning Hazardous Substance Consents		
Hambleton District Council - Planning & Environmental Services	February 2016	Variable
Harrogate Borough Council	January 2016	Variable
North Yorkshire County Council	October 2007	Annual Rolling Update
Geological	**Version**	**Update Cycle**
BGS 1:625,000 Solid Geology		
British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Recorded Mineral Sites		
British Geological Survey - National Geoscience Information Service	November 2018	Bi-Annually
CBSCB Compensation District		
Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Coal Mining Affected Areas		
The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Mining Instability		
Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain		
British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Compressible Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Ground Dissolution Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Landslide Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Running Sand Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	Annually
Radon Potential - Radon Affected Areas		
British Geological Survey - National Geoscience Information Service	July 2011	Annually
Radon Potential - Radon Protection Measures		
British Geological Survey - National Geoscience Information Service	July 2011	Annually

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	 January 2019	 Quarterly
Fuel Station Entries Catalist Ltd - Experian	 November 2018	 Quarterly
Gas Pipelines National Grid	 July 2014	
Underground Electrical Cables National Grid	 December 2015	
Sensitive Land Use	**Version**	**Update Cycle**
Ancient Woodland Natural England	 August 2018	 Bi-Annually
Areas of Adopted Green Belt Hambleton District Council - Planning & Environmental Services Harrogate Borough Council	 August 2018 August 2018	 As notified As notified
Areas of Unadopted Green Belt Hambleton District Council - Planning & Environmental Services Harrogate Borough Council	 August 2018 August 2018	 As notified As notified
Areas of Outstanding Natural Beauty Natural England	 August 2018	 Bi-Annually
Environmentally Sensitive Areas Natural England	 January 2017	
Forest Parks Forestry Commission	 April 1997	 Not Applicable
Local Nature Reserves Natural England	 August 2018	 Bi-Annually
Marine Nature Reserves Natural England	 January 2018	 Bi-Annually
National Nature Reserves Natural England	 August 2018	 Bi-Annually
National Parks Natural England	 April 2017	 Bi-Annually
Nitrate Vulnerable Zones Environment Agency - Head Office Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	 December 2017 October 2015	 Bi-Annually
Ramsar Sites Natural England	 August 2018	 Bi-Annually
Sites of Special Scientific Interest Natural England	 October 2018	 Bi-Annually
Special Areas of Conservation Natural England	 August 2018	 Bi-Annually
Special Protection Areas Natural England	 August 2018	 Bi-Annually

Data Suppliers

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	Map data
Environment Agency	Environment Agency
Scottish Environment Protection Agency	SEPA Scottish Environment Protection Agency
The Coal Authority	The Coal Authority
British Geological Survey	British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
Natural Resources Wales	Cyfoeth Naturiol Cymru Natural Resources Wales
Scottish Natural Heritage	SCOTTISH NATURAL HERITAGE
Natural England	NATURAL ENGLAND
Public Health England	Public Health England
Ove Arup	ARUP
Peter Brett Associates	pba peterbrett

Useful Contacts

Contact	Name and Address	Contact Details
1	**British Geological Survey - Enquiry Service** British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	**Hambleton District Council - Planning & Environmental Services** Civic Centre, Stone Cross, Northallerton, North Yorkshire, DL6 2UU	Telephone: 01609 779977 Fax: 01609 767228 Website: www.hambleton.gov.uk
4	**Environment Agency - Head Office** Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
5	**Ordnance Survey** Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	**North Yorkshire County Council** County Hall, Northallerton, North Yorkshire, DL7 8AD	Telephone: 01609 780780 Fax: 01609 778199 Website: www.northyorks.gov.uk
-	**Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards** Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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

Appendix D
Notes on Contamination
Guidance

SOLMEK NOTES ON CONTAMINATION GUIDANCE (REF: VERSION 1/2019)

UK BACKGROUND

Environmental Protection Act 1990: Part 2A Revised Statutory Guidance (April 2012)

This revised document explains how the Local Authority should decide if land, based on a legal interpretation, is contaminated. The document replaces the previous guidance given in Annex 3 of DEFRA Circular 01/2006, issued in accordance with section 78YA of the 1990 Environmental Protection Act.

The main objectives of the Part 2A regime are to *"identify and remove unacceptable risks to human health and the environment" and* to *"seek to ensure that contaminated land is made suitable for its current use".*

Part 2A uses a risk based approach to defining contaminated land whereby the "risk" is interpreted as *"the likelihood that harm, or pollution of water, will occur as a result of contaminants in, on or under the land"* and by *"the scale and seriousness of such harm or pollution if it did occur".*

For a relevant risk to exist a contaminant, pathway and receptor linkage must be present before the land can be considered to be contaminated. The document explains that *"for a risk to exist there must be contaminants present in, on or under the land in a form and quantity that poses a hazard, and one or more pathways by which they might significantly harm people, the environment, or property; or significantly pollute controlled waters."*

A conceptual model is used to develop and communicate the risks associated with a particular site.

To determine if land is contaminated the local authority use various categories from 1 to 4. Categories 1 and 2 include *"land which is capable of being determined as contaminated land on grounds of significant possibility of significant harm to human health."*

Categories 3 and 4 *"encompass land which is not capable of being determined on such grounds".*

PRELIMINARY CONCEPTUAL MODEL

Preliminary Conceptual Models are undertaken in accordance with CIRIA C552. The Preliminary Conceptual Model assesses the consequence and the likelihood of a risk being realised to provide a risk classification, using the tables detailed below.

CONSEQUENCE OF RISK BEING REALISED (Based on C552 CIRIA, 2001)

Classification	Definition	Example
Severe	Short-term (acute) risk to human health, the environment, an element of the development or other aspect with is likely to result in *significant harm*, damage or both.	High concentrations of cyanide on the surface of an informal recreational area. Major spills of contaminants from site into controlled water. High concentrations of explosive gas in the subsurface environment that have a clear unobstructed pathway into buildings.
Moderate	Chronic damage to human health, a plausible chance that an event will occur, although the timeline is not immediate to be in the short-term.	Appreciable concentration of contamination that over the longer-term will cause significant harm i.e. high lead concentration in topsoil. Shallow mine workings that are potentially unstable but may remain in a satisfactory or stable conditions for a number of years.
Mild	Low level pollution of non-sensitive water, a feasible hazardous scenario although the timeline of such occurring can probably be considered in 10's of years.	The effect of high sulphate concentrations on structural concrete. Pollution of non-classified groundwater.
Minor	Harm, although not necessarily significant to human health, or with respect to other aspects of the development, which are considered implausible in terms of occurrence, or will have little consequential impact.	The presence of contaminants at such low concentrations that protective equipment is required during site works. Any damage to structures is minimal and will not be structural in characteristics.

PROBABILITY OF RISK BEING REALISED (C552 CIRIA, 2001)

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

RISK CLASSIFICATION MATRIX (C552 CIRIA, 2001)

Risk = Probability x Consequence		Consequence			
		Severe	Moderate	Mild	Minor
Probability	High likelihood	Very high risk	High risk	Moderate risk	Moderate/low risk
	Likely	High risk	Moderate risk	Moderate/low risk	Low risk
	Low likelihood	Moderate risk	Moderate/low risk	Low risk	Very low risk
	Unlikely	Moderate/low risk	Low risk	Very low risk	Very low risk

HUMAN RECEPTORS

Human exposure to contaminants present in soils can occur via several pathways. Direct exposure pathways include dermal absorption after contact with contaminated ground, inhalation of soil or dust, inhalation of volatised compounds, and inadvertent soil ingestion (or deliberate soil ingestion in the case of some children). Other indirect pathways include human ingestion of plants grown in contaminated soil or contaminated ground or surface water. Contaminants associated with wind blown dust can affect humans on surrounding sites.

VEGETATION

Plants can be affected by soil contamination in a number of ways resulting in growth inhibition, nutrient deficiencies and yellowing of leaves. Contaminants are taken up by plants through the roots and through foliage. Contaminants identified as being highly phytotoxic include boron, cadmium, copper, lead, nickel, and zinc.

To establish if the levels of contaminants present on a site may pose a risk to vegetation the results of the contamination testing are compared to a series of threshold values published in 'Code of Good Agricultural Practice for the Protection of Soil'.

GROUNDWATER AND SURFACE WATER RECEPTORS

The principal pathway by which soil contamination may reach the water environment is through a slow seepage or leaching to groundwater or surface water. The potential for contaminants to migrate along such pathways is dependent on the chemical and physical characteristics of the contaminants and the local hydrogeology. Surface watercourses may also accumulate contamination as contaminated sediments are deposited within the water body.

Where the site investigated overlies major/principal aquifers (and in some cases minor/secondary aquifers depending on certain conditions), groundwater Source Protection Zones and areas in close proximity to groundwater abstractions, contamination test results have been compared with the Water Supply (Water Quality) Regulations 1989 and The Water Supply (Water Quality) Regulations 2000.

Should a surface water receptor, such as a fresh water environment (river, canal, stream, lake etc), or marine environment be considered sensitive in relation to a site, then test results are compared with DEFRA & SEPA Environmental Quality Standards (2004). Many of the Environmental Quality Standards are hardness ($CaCO_3$) depended. Where no hardness values are available, Solmek assume conservative values (of between 0 and 50mg/l).

In the absence of vulnerable ground and surface water environments, Solmek may compare any test results with the Environment Agency Leachate Quality Threshold Values.

DETAILED QUANTITATIVE RISK ASSESSMENT (DQRA)

In line with CLR 11- Model Procedures, a DQRA for groundwater/human health may be required following a Phase 2 investigation and before the preparation of a Phase 3 Remediation Strategy. For human health DQRA, a site specific assessment criteria is undertaken using CLEA Software Version 1.06. For groundwater DQRA, the Environment Agency Remedial Targets Worksheet Version 3.1 is used.

WASTE ACCEPTANCE CRITERIA

The WAC testing relates to materials that are to be exported from a site/development to landfill, and do not directly relate to human health specifically. The WAC test categorises materials as either inert waste, non-reactive hazardous waste, and hazardous waste.

The testing results are generally presented as certificates which can be used by site owners/contractors etc, which should be presented to the accepting waste facility or waste contractor.

CONSTRUCTION MATERIALS

Materials at risk from possible soil contaminants include inorganic matrices such as cement and concrete and also organic material such as plastics and rubbers. Acid ground conditions and high levels of sulphates can accelerate the corrosion of building materials. Where pH and soluble sulphate analysis has been undertaken, Solmek compare the test results with the guidelines presented within BRE Special Digest 1, 2005 (3rd Edition) 'Concrete in Aggressive Ground'. Plastics and rubbers are generally used for piping and service ducts and are potentially attacked by a range of chemicals, most of which are organic, particularly petroleum based substances. Drinking water supplies can be tainted by substances that can penetrate piping and water companies enforce stringent threshold values.

The levels of potential contaminants should be compared to thresholds supplied in the UK Water Industry Research (UKWIR) publication "Guidance for the selection of Water Supply Pipes to be used in Brownfield Sites" (January 2011). A Brownfield Site is defined in the document as "Land or premises that have not previously been used or developed that may be vacant or derelict". It should be noted that Brownfield sites may not be contaminated. The guidance does not apply to Greenfield Sites however water companies may have their own assessment criteria which should be checked by the developer. The table below outlines the pipe material selection threshold concentrations.

	Pipe Material (Threshold concentrations in mg/kg)					
Parameter group	**PE**	**PVC**	**Barrier pipe (PE-AL-PE)**	**Wrapped Steel**	**Wrapped Ductile Iron**	**Copper**
Extended VOC suite by purge and trap or head space and GC-MS with TIC	0.5	0.125	Pass	Pass	Pass	Pass
+ BTEX + MTBE	0.1	0.03	Pass	Pass	Pass	Pass
SVOCs TIC by purge and trap or head space and GC-MS with TIC (aliphatic and aromatic C5-C10)	2	1.4	Pass	Pass	Pass	Pass
+ Phenols	2	0.4	Pass	Pass	Pass	Pass
+ Cresols and chlorinated phenols	2	0.04	Pass	Pass	Pass	Pass
Mineral oil C11-C20	10	Pass	Pass	Pass	Pass	Pass
Mineral oil C21-C40	500	Pass	Pass	Pass	Pass	Pass
Corrosive (Conductivity, Redox and pH)	Pass	Pass	Pass	Corrosive if pH <7 and conductivity >400µS/cm	Corrosive if pH <5, Eh not neutral and conductivity >400µS/cm	Corrosive if pH <5 or >8 and Eh positive
Specific suite identified as relevant following site investigation						
Ethers	0.5	1	Pass	Pass	Pass	Pass
Nitrobenzene	0.5	0.4	Pass	Pass	Pass	Pass
Ketones	0.5	0.02	Pass	Pass	Pass	Pass
Aldehydes	0.5	0.02	Pass	Pass	Pass	Pass
Amines	Fail	Pass	Pass	Pass	Pass	Pass

REQUIREMENTS OF PARTIES WITHIN THE DEVELOPMENT PROCESS

Interested parties involved in the development process may use the data in different ways and there may be varying views and interpretation of the factual data. Local Authority staff may have a view on contamination and human health and the wider environment. The Environment Agency are concerned principally with the protection of Controlled waters. Building insurers, funders and purchasers may be primarily concerned with issues of potential commercial blight. Purchasers are also not always fully informed, and perceptions on issues associated with risk can affect the decision to purchase. Developers and construction organisations will focus on financial aspects of dealing with the contamination in the context of the development and construction programme.

RISKS & LIABILITIES FROM CONTAMINATION

In simple terms, risks associated with contamination may be considered in terms of 1) statutory risks and 2) development related risks. If contamination is severe or forms a potential hazard based on its potential to affect groundwater, surface water or human health, a statutory risk may be present, and as such, if the risk is not reduced, criminal proceedings may be instigated by a government body or local authority.

If the contamination is less severe or not considered to be mobile, it may be considered a commercial liability which could, in theory remain untreated, but which may at a later date affect the value of the property, or, with changing legislation, become a statutory risk. Commercial liabilities could give rise to civil proceedings by third parties if there are grounds for action.

Appendix E
Notes on Limitations

♣Solmek conditions of offer, notes on limitations & basis for contract (ref: version1/2019)

These conditions accompany our tender and supercede any previous conditions issued. Solmek will prepare a report solely for the use of the Client (the party invoiced) and its agent(s). No reliance should be placed on the contents of this report, in whole or in part by 3rd parties. The report, its content and format and associated data are copyright, and the property of Solmek. Photocopying of part or all of the contents, transfer or reproduction of any kind is forbidden without written permission from Solmek. A charge may be levied against such approval, the same to be made at the discretion of Solmek. Solmek was a trading name of Hymas Geoenvironmental Ltd.

Solmek cannot be held liable and do not warrant, or otherwise guarantee the validity of information provided by third parties and subsequently used in our reports. Solmek are not responsible for the action negligent of otherwise of subcontractors or third parties.

Site investigation is a process of sampling. The scope and size of an investigation may be considered proportional to levels of confidence regarding the ground and groundwater conditions. The exploratory holes undertaken investigate only a small volume of the ground in relation to the overall size of the site, and can only provide a general indication of site conditions. The opinions provided and recommendations given in this report are based on the ground conditions as encountered within each of the exploratory holes. There may be different ground conditions elsewhere on the site which have not been identified by this investigation and which therefore have not been taken into account in this report. Reports are generally subject to the comments of the local authority and Environment Agency. The comments made on groundwater conditions are based on observations made at the time that site work was carried out. It should be noted that mobile contamination, ground gas levels and groundwater levels may vary owing to seasonal, tidal and/or weather related effects. Solmek cannot be held liable for any unrecorded or unforeseen obstructions between exploratory boreholes and trial pits. This includes instances where previous structures on the site (buried man made structures) or the presence of boulder clay (cobbles and/or boulder obstructions) have been anticipated. All types of piling operations should make allowance for obstructions within the construction budget to accommodate this. Unrecorded ancient mining may occur anywhere where seams that have been worked and influence the rock and soil above. Dissolution cavities can occur where gypsum or chalk is present. Rotary drilling is the recommended technique to prove the integrity of the rock.

Where the scope of the investigation is limited via access to information, time constraints, equipment limitations, testing, interpretation or by the client or his agents budgetary constraints, elements not set out in the proposal and excluded from the report are deemed to be omitted from the scope of the investigation.

Desk studies are generally prepared in accordance with RICS guidelines. Environmental site investigations are generally undertaken as 'exploratory investigations' in accordance with the definitions provided in paragraph 5.4 of BS 10175:2001 in order to confirm the conceptual assumptions. You are advised to familiarize yourself with the typical scope of such an investigation. No pumping of water will be undertaken unless a licence or facilities/equipment have been arranged by others.

Where the type, number or/and depth of exploratory hole is specified by others, Solmek cannot and will not be responsible for any subsequent shortfall or inadequacy in data, and any consequent shortfall in interpretation of environmental and geotechnical aspects which may be required at a later date in order to facilitate the design of permanent or temporary works.

All information acquired by Solmek in the course of investigation is the property of Solmek, and, only also becomes the joint property of the Client only on the complete settlement of all invoices relating to the project. Solmek reserve the right to use the information in commercial tendering and marketing, unless the Client expressly wishes otherwise in writing. The quoted rates do not include VAT, and payment terms are 30 days from dispatch of invoice from our offices. Quotes are subject to a site visit.

We have allowed for 1 mobilisation and normal working hours unless otherwise stated. The scope of the investigation may be reviewed following the desk study and/or fieldwork. The presence or otherwise of Japanese Knotweed or other invasive plants can be difficult to identify especially during winter months. If Japanese Knotweed or other invasive species are suspect, it should be confirmed by an ecologist. We have not allowed for acquiring services information, and cannot be responsible for damage to underground services or pipes not shown to us or not clearly shown on plans. Costs incurred will be passed on to you, and in commissioning Solmek you understand and accept that you/your agent have a contractual relationship with Solmek & you accept this. Our rates assume unobstructed, reasonably level and firm access to the exploratory positions and adequate clear working areas and headroom. We have priced on the basis that you or your client have the necessary permissions, wayleaves and approvals to access land. All boreholes and pits are backfilled with arisings except where gas monitoring pipes are installed with stopcock covers. Solmek are not responsible for any uneven surfaces as a result of siteworks and rutting and backfilled excavations may require re-levelling and/or making good by others after fieldwork is complete, and Solmek has not allowed for this. No price has been provided or requested for a return visit to remove pipework and covers. Hourly rates apply to consultancy only and do not include expenses unless otherwise shown. If warranties are required, legal costs incurred will be passed on to you assuming Solmek agree to complete such warranties, modified or otherwise and you understand and agree to pay all costs.

We reserve the right to pursue full payment of the invoice prior to release of any information including reports. We advise you/your client that we may elect to pursue our statutory rights under late payment legislation, and will apply 8% to the base rate for unreasonably late payments. Solmek are exempt from the CIS Scheme. Solmek offer to undertake work only in strict accordance with conditions covered by our current insurances, which are available for inspection. Solmek are not responsible for acts, negligent or otherwise of subcontractors and as a matter of policy cannot indemnify any other parties. Professional indemnity Insurance is limited to ten times the invoice net total except where stated otherwise by Solmek. Solmek give notice that consequential loss as a direct or indirect result of Solmek's activities or omission of the same are excluded.