

Plot 19 - Cleator Moor Innovation Quarter (CMIQ), Leconfield Industrial Estate

Geo-Environmental Desk Study





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Phase 1 Geo-environmental Assessment

Desk Top Study

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PRESENTED TO

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EXECUTIVE SUMMARY

Brief	Tetra Tech Ltd was commissioned Doosan Babcock to undertake a Geo-Environmental Desk Study for Plot 19, Cleator Moor Innovation Quarter (CMIQ) to identify potential geo-environmental constraints to the development. The identification of geotechnical constraints to the development was not part of this commission.
The Site	The site is located in Leconfield Industrial Estate, off Leconfield Street (B5295), CA25 5JZ. The total site area is approximately 0.7 ha and is centred on National Grid Reference (NGR) NY 01694 15535.
Proposed Development	The development proposals consist of temporary use of the site for a period of 18 months to construct a 7m high mock-up of a chimney and to do trial cutting and lifting operations. After the 18-month period the site will be cleared back to the pre-development conditions.
Surrounding Site Information	Plot 19 is located with Leconfield Industrial Estate. The boundary to the north-east is occupied by a road with single-storey industrial buildings beyond. The north-west borders two industrial buildings, and grassland. The south-west borders another disused area of hardstanding, with a building footprint. The south-east boundary is adjacent to an area of grass and woodland, with residential/commercial properties, and a football pitch beyond.
Geology	The published geological plans for the are indicate the presence of Superficial deposits of Devensian Till comprising largely of boulder clays with local deposits of sand onsite overlying Bedrock strata of Pennine Middle Coal Measures in the south of Plot 19 and Whitehaven Sandstone in the north.
Hydrogeology & Hydrology	The superficial strata located onsite is designated as a Secondary Undifferentiated Aquifer and bedrock strata located onsite is designated as a Secondary A Aquifer. The nearest watercourse (Nor Beck) is 80 m north-east of the site.
Site History	The site was previously used as an iron and steel works, as a slag heap and railway infrastructure. A large warehouse was constructed on the site between 1989 and 1991, which has now been demolished. Currently, the site is disused, predominantly comprising a mixture of concrete and asphalt (including a floor slab), with smaller areas of grass, scrub and bare ground.
Environmental database search	Made Ground is shown to be sitewide from the Envirocheck report, relating to the site's previous use as a slag heap. A historical landfill is listed on LA records, without any further information. This could also relate to the slag heap. There are no Environmental Designations at or within 250 m of the site boundary. There is potential for groundwater flooding of property situated below ground level.
Third Party Report Review	There are 4 No. investigation locations within Plot 19 from the ground investigation in 2020, RBH105, RBH108, CP104 and CP105. Elevated levels of copper, ammoniacal nitrogen, nitrite and PAHs were found in soil (Made Ground) and groundwater samples.

Preliminary ground contamination assessment	The risk from ground contamination at the site is generally considered to be: • Moderate/Low regarding future site users. • Moderate/Low regarding building infrastructure and water supply pipelines. • Moderate/Low regarding controlled waters (Secondary A and Secondary Undifferentiated Aquifer). The risk from ground gas is considered to be as follows: • Moderate/Low relating to the potential for gas generation from Made Ground and shallow mine workings. • Moderate/Low relating to locally infilled land. • Moderate/Low for potential mine gas generated from deeper underground mine workings. The risk of off-site sources impacting the site is considered to be as follows: • Moderate/Low risk is posed to Human Health from off-site sources. • Moderate/Low risk is posed to controlled waters in relation to leaching of potentially contaminative sources.
Conclusions	In consideration of the nature of the proposed development, the risks are considered to be Moderate/Low for the future site users although construction workers should adopt PPE and site practices to mitigate short term exposures to Made Ground or ground gas.

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ACRONYMS/ABBREVIATIONS

Acronyms/Abbreviations	Definition
aOD	above Ordnance Datum
bgl	below ground level
BGS	British Geological Survey
BTEX	Benzene, Toluene, Ethylbenzene and Xylenes
C4SL	Category 4 Screening Levels
CIEH	Chartered Institute of Environmental Health
CLEA	Contaminated Land Exposure Assessment
CoC	Constituent of Concern
CSM	Conceptual Site Model
DEFRA	Department of Environment, Food and Rural Affairs
DQRA	Detailed Quantitative Risk Assessment
DTS	Desk Top Study
DRO	Diesel Range Organics
DWS	Drinking Water Standard
EA	Environment Agency (England)
EPH	Extractable Petroleum Hydrocarbons
EQS	Environmental Quality Standards
FOC	Fraction Organic Carbon
GPR	Ground Penetrating Radar
LOD	Limit Of Detection
LQM	Land Quality Management
NRW	Natural Resources Wales
OS	Ordnance Survey
PAH	Polycyclic Aromatic Hydrocarbons
PCB	Poly Chlorinated Biphenyl
PPE	Personal Protective Equipment
ppm	parts per million
PRO	Petroleum Range Organics
SGV	Soil Guideline Values
SOM	Soil Organic Matter
SVOC	Semi-Volatile Organic Compounds
TPH	Total Petroleum Hydrocarbons
TSV	Tier 1 Screening Values
VOC	Volatile Organic Compounds
VPH	Volatile Petroleum Hydrocarbons

1.0 INTRODUCTION

1.1 INSTRUCTION

Tetra Tech Ltd (Tetra Tech) was commissioned by Doosan Babcock (the Client) to undertake a Geo-Environmental Desk Study for the Plot 19, Cleator Moor Innovation Quarter (CMIQ), Cleator Moor (known hereafter as “the site”), to identify the potential geo-environmental constraints to the development. The identification of geotechnical constraints to the development was not part of this commission.

The location of the site is shown on Figure 1 - Site Location Plan.

1.2 BRIEF

The brief was to provide a Phase 1 Geo-environmental Desk Study report including a preliminary qualitative contamination risk assessment to assess the key geo-environmental constraints at the site.

The report has been written in general accordance and with reference to Environment Agency (2020) Land Contamination Risk Management, Version 3, <https://www.gov.uk/government/publications/land-contamination-risk-management-lcrm>.

1.3 PROPOSED DEVELOPMENT

The development proposals consist of temporary use of the site for a period of 18 months to construct a 7m high mock-up of a chimney and to do trial cutting and lifting operations. After the 18-month period the site will be cleared back to the pre-development conditions.

1.4 REPORT SCOPE

This report includes the following key elements:

- A historical site and local area review, primarily referring to past editions of Ordnance Survey Maps.
- Review of relevant web-based information.
- A discussion of the general expected ground and groundwater conditions within the site referring to published geological and hydrogeological maps.
- Review of the previous environmental database information, including information on waste facilities, water abstractions and environmentally sensitive areas.
- A baseline UXO risk assessment using online databases to classify the site with regards to UXO risk.
- A preliminary conceptual site model (CSM).
- A Qualitative Risk Assessment for ground contamination (compliant with CIRIA 552 (CIRIA, 2001) methodology).
- An executive summary of the report to allow a rapid, layman’s overview.

1.5 LIMITATIONS

The recommendations and opinions expressed in this report are based on information obtained as part of the desk study or provided by others. Information provided from other sources is taken in good faith and Tetra Tech cannot guarantee its accuracy. Third party information was originally provided for Copeland Borough Council for the wider development so all considerations represent a sub-part of that data set and are used by permission of Copeland Borough Council.

This report is subject to the report conditions presented in Appendix A.

The information contained in this report is intended for the use of the Client (Doosan Babcock) and Tetra Tech can take no responsibility for the use of this information by any third party or for uses other than that described in this report or detailed within the terms of our engagement.

2.0 SITE INFORMATION

2.1 LOCATION

The site is located in Leconfield Industrial Estate, off Leconfield Street (B5295), CA25 5JZ. The total site area is approximately 0.7 ha and is centred on National Grid Reference (NGR) NY 01694 15535.

A site location plan is presented as Figure 1.

2.2 SITE DESCRIPTION

The information below regarding the site is based on the site walkover carried out on 21st November 2019. A site walkover was not included as part of this commission.

2.2.1 Current Site Usage

The site is currently a disused open area of former floor slab to a demolished building previously used in association with the industrial estate. The majority of the industrial estate in the surrounding area is still in use for aluminium extrusions, robotics, plumbing supplies, manufacture of scientific instruments, and open storage.

2.2.2 Access and Boundaries

The site is accessed off Leconfield Street (B5295), from an access road to the east of the site, which runs along the south-east of the site.

The boundary to the north-east is occupied by a road with single-storey industrial buildings beyond. The north-west borders two industrial buildings, and grassland. The south-west borders another disused area of hardstanding, with a building footprint. The south-east boundary is adjacent to an area of grass and woodland, with residential/commercial properties, and a football pitch beyond.

2.2.3 Topography

The site is generally level, at between 83-84 m AOD.

2.2.4 Ground Cover and Vegetation

The site currently comprises mainly hardstanding (mixture of asphalt and concrete), including the footprint of a demolished industrial building. Grassland, bare ground and scrub account for the remainder of the site.

2.2.5 On-Site Structures and Fuel Tanks

There are no on-site structures.

2.2.6 Electricity Substations

There were no electricity substations observed during the site walkover.

2.2.7 Asbestos Containing Materials

There were no obvious signs of Asbestos Containing Materials (ACMs) identified by the previous site walkover in 2019.

2.2.8 Signs of Contamination

No significant areas of obvious contamination were observed during the previous site walkover in 2019. However, some contamination was detected during the ground investigation in 2020. This is covered in section 6 of this report.

3.0 SITE HISTORY

The historical development of the site and surrounding area has been assessed using information available from historical Ordnance Survey (OS) maps within the Envirocheck Report for the site which are presented in Appendix C of this report.

In the context of the summary of historical development of the surrounding area, the descriptions are limited to within approximately 250 m of the site boundary, unless specified in the following section.

Table 3-1 below provides a summary of the review of available OS mapping coverage, Google Earth Imagery, and historical aerial imagery for the site dating back to 1863.

Table 3-1 – Summary of Site Historical Data

Feature	Map Years	Section	Notes
Haematite Iron & Steel Works	1863 - 1962	Whole Site	The site is in use as part of an ironworks between 1863 and 1962, with a railway running through the site as part of the Whitehaven and Cleator Moor Line. In 1863, the majority of the site remains as agricultural fields, before further development of the rail network between 1863 and 1899. Infrastructure to support the iron and steelworks includes cranes, limekilns and tanks.
Slag Heap	1925 - 1970	Whole Site	A large slag heap is present across the majority of the site, in relation to haematite mining/refining in the area. Not identified on maps after 1970.
Railway Sidings associated with iron and steel works	1863 - 1970	Whole Site	Present across the site from 1863 to 1957, dismantled after 1970. Two main lines running approximately east/west either side of the large slag heap, before combining at Birksbridge Junction to the east of the site.
Leconfield Industrial Estate – Plot 19	1962 - Present	Whole Site	Development of the industrial estate commenced in 1962, with several phases of subsequent expansion. The on-site building was constructed between 1989 and 1991.

There are potentially contaminative land uses near to the site; the main ones within 250m of the site boundary are listed in Table 3.2 below.

Table 3-2 – Summary of Surrounding Historical Data within 250m

Feature	Map Years	Location	Notes
Infilled ponds	1863 - 1962	50 - 100 m south-east	Two ponds lie to the south, infilled between 1962 and 1970.
Leconfield Industrial Estate	1962 - Present	Adjacent to site	Development of the industrial estate commenced in 1962, with further expansions from 1970 to 1991. Used for a variety of industrial purposes, including aluminium, iron and steelworks, leather and scientific instrument manufacturing.
Electricity substations	1982 - Present	100 m west	Two electrical substations are present to the west of the site, constructed to support industrial buildings.

Railway lines	1863 - 1962	Adjacent to north and east boundaries	Present to support transport of industrial materials, dismantled in 1962.
St John's Pit	1925 - 1962	100 m south-west	Mined for iron ore (haematite) and recorded as a slag heap from 1962.
Goods Station	1863- 1970	80 m south	Used to transport materials from the estate, the land was converted to allotments after 1970.
Tank (unknown)	1899 - 1962	50 m south	Unknown storage tank, absent on maps after 1970.

4.0 GEOLOGY, HYDROGEOLOGY, HYDROLOGY AND RADON

4.1 GEOLOGY

Details of the geology underlying the site have been obtained from the following sources:

- British Geological Survey (BGS) Sheet No. 28 (Whitehaven) Bedrock and Superficial 1:50,000, 2004.
- BGS GeoIndex, accessed May 2022.
- Coal Authority Interactive Viewer, accessed May 2022.
- BGS website (British Geological Survey 2022), May 2022.
- Environmental database (Envirocheck, 224379683_1_1) presented in Appendix B.
- Leconfield Industrial Estate, Cleator Moor – Geo-environmental Desk Study, August 2020 (A114312).
- Leconfield Industrial Estate, Cleator Moor – Preliminary Ground Investigation Report, November 2020 (A114312-1).
- BR211 Indicative Radon Mapping (Scivyer, 2015).

4.1.1 Made Ground

The Envirocheck Report indicates that Made Ground is present sitewide.

4.1.2 Superficial Geology

The geological mapping indicates that superficial deposits of Devensian Till – Diamicton, comprising of gravels, sands, silts and clays underly the site area in its entirety.

4.1.3 Solid Geology

The southern half of the site is indicated to be underlain by bedrock strata of the Pennine Middle Coal Measures (PMCM) comprising mudstone, siltstone and sandstone described by the BGS as “interbedded grey mudstone, siltstone, pale grey sandstone and commonly coal seams, with a bed of mudstone containing marine fossils at the base, and several such marine fossil-bearing mudstones in the upper half of the unit.”

The northern half of the site is indicated to be underlain by bedrock strata of the Whitehaven Sandstone Formation, described by the BGS as “red to purple-brown, cross-bedded sandstones with vari-coloured mudstone and siltstone. Thin coal seams, marls and limestone bed with spirorbis sp. present locally.”

The strata contact is along the Henry Pit Faultline, discussed below.

4.1.4 Linear Features

The site is bisected by the Henry Pit Fault; a north-west/south-east trending fault downthrown to the north-east. This is intersected in the south of the site by two faults, one trending north-east/south-west, downthrown to the north-west. The other fault trends north/south, downthrown to the west.

4.1.5 Mining

The site is located in a coal mining reporting area but Plot 19 is shown as being outside the development high risk areas with respect to shallow coal. A Refined Mining Risk Assessment was carried out for Leconfield Industrial Estate in September 2020, which concluded a very low risk with respect to shallow mine workings outside of the development high risk areas.

No mine shafts are listed on or within 20 m of Plot 19.

Geological mapping shows the nearest coal seams (Tenquarters Coal and Slaty Coal) dipping to the west, away from the site.

The absence or presence of BGS registered sites and cavities at or within 250 m of the site boundary have been summarised in Table 4.1 below. Further detail is given in Table 4.2.

Table 4-1 – Summary of BGS Features / Cavities

Feature	On Site	Off Site (within 250m)
BGS Mineral Sites	No	No
Recorded Man-Made Cavities	No	Yes
Recorded Natural Cavities	No	No

Table 4-2 – Details of BGS Features / Cavities

Feature – Off Site	Commodity	Details
301515-016	Ironstone	Distance: 220 m Type: Surface
301515-017	Ironstone	Distance: 240 m Type: Surface
301515-007	Coal	Distance: 200 m Type: Disused Mine Shaft
301515-008	Coal	Distance: 220 m Type: Disused Mine Shaft

4.1.6 Historical Borehole Logs

British Geological Survey (BGS) logs have been referred to for information only and a total number of thirteen BGS logs have been identified within 100m of the site boundary. The presence or absence of boreholes have been summarised in Table 4-3 below. Further detail is provided in Table 4-4 for those deemed most relevant. It is important to note that all details are given as provided on historic logs.

Table 4-3 – Summary of BGS Borehole Logs

Presence	On Site	Off Site
BGS Borehole Logs	No	Yes

Table 4-4 – Details of BGS Logs

BGS Reference Number, Depth and Date	Grid Reference, Distance and Direction	Details
NY01NW502 7.22 m 25/09/1969	301703, 515598 10 m NW	0.00 – 1.10: Compact grey foundry waste 1.10 – 1.31: Hard grey foundry waste (boulder) 1.31 – 1.83: Very dense grey foundry waste 1.83 – 2.32: Moderately loose dark grey foundry waste 2.32 – 5.46: Moderately loose dark grey foundry waste with occasional ash and cinders with large pieces of waste material 5.46 – 7.22: Hard grey foundry waste

NY01NW505 0.90 m -	301735, 515602 20 m NE	0.00-0.10: Topsoil 0.10-0.90: Very hard grey foundry waste
NY01NW506 1.76 m -	301728, 515610 20 m NE	0.00-0.10: Topsoil 0.10-0.40: Very hard grey foundry waste 0.30-1.08: Soft organic soil 1.08-1.76: Very hard grey foundry waste

4.1.7 BGS Soil Chemistry

The Envirocheck Report also provides Urban Soil Chemistry Averages for the site (source: Urban Soil and Soil Chemistry data provided by the British Geological Survey). The information is summarised in the Table 4-5.

Table 4-5 – Urban Soil Chemistry Averages

Determinand	Soil Concentration Range	
	Minimum (mg/kg)	Max (mg.kg)
Arsenic	15	35
Cadmium	1.8	1.8
Total Chromium	60	90
Lead	100	100
Nickel	15	30

4.2 HYDROGEOLOGY

4.2.1 Aquifer Classification

The superficial strata located onsite is designated as a Secondary Undifferentiated Aquifer. This designation is assigned where it is not possible to attribute either category A or B. In general, these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the soil type.

The bedrock strata located onsite is designated as a Secondary A Aquifer. These are permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers.

4.2.2 Groundwater Vulnerability

Guidance released by the EA (Environment Agency, March 2017) states that activities that have the potential to affect the quality or quantity of groundwater must prevent groundwater pollution. All groundwater is vulnerable to pollution, and some geological formations are more vulnerable than others. The risks of groundwater pollution from any given activity depend in part on:

- The physical, chemical and biological properties of the underlying soil and rocks;
- Depth and quality of soil;
- The presence of glacial sediment and other materials – known as ‘Superficial’ deposits; and,
- Depth of the unsaturated zone.

All of the above affect how groundwater is more or less vulnerable to pollution, with type of vulnerability generally one of the following:

- Intrinsic vulnerability – this relates to the physical characteristics, it includes soil type, presence of superficial soils, or rock type; and,
- Specific vulnerability – this relates to the effect of the proposed activity including any contaminant and consequent risk to groundwater.

The Environmental Database indicates that both the Bedrock and Superficial strata are categorized as high vulnerability with a high infiltration value >70% and a flow mechanism of through well-connected fractures.

The Environment Agency describes High Vulnerability as: “Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits”.

4.2.3 Groundwater Source Protection Zones

The site is not shown to be situated within an EA defined groundwater Source Protection Zone (SPZ).

4.2.4 Groundwater Abstractions

The absence or presence of groundwater abstraction wells at or within 1km of the site boundary have been summarised in Table 4-6 below.

Table 4-6 – Summary of Groundwater Abstraction Wells

Feature	On Site	Off Site
Abstraction Well	No	No

4.3 HYDROLOGY

Details of the hydrology of the area have been obtained from the following sources:

- Environmental database – 224379683_1_1 (Envirocheck).
- MAGIC interactive mapping website.

4.3.1 Watercourses

The absence or presence of watercourses at or within 100m of the site boundary have been summarised in Table 4-7 below. Further detail is given in Table 4-8.

Table 4-7 – Summary of Watercourses

Feature	On Site	Off Site
Watercourses	No	Yes

Table 4-8 – Details of Watercourses

Location – Off Site	Distance and Direction	Details
Nor Beck	80 m NE, flowing south towards the River Keekle	Inland river – On ground surface

4.3.2 Surface Water Abstractions

The absence or presence of surface water abstractions at or within 250m of the site boundary have been summarised in Table 4-9 below.

Table 4-9 – Summary of Surface Water Abstractions

Feature	On Site	Off Site
Surface Water Abstractions	No	No

4.3.3 Discharge to Controlled Waters including Pollution Incidents

The absence or presence of licenced discharge to controlled waters including pollution incidents at or within 250m of the site boundary have been summarised in Table 4-10 below. Further details are presented in Table 4-11.

Table 4-10 – Summary of Discharge to Controlled Waters and Pollution Incidents

Feature	On Site	Off Site
License of Discharge to Controlled Waters	No	Yes
Pollutant Release to Surface Waters	No	No
Pollutant Release to Surface Water (Red List)	No	No
Pollutant Release to Public Sewer	No	No
List 1 Dangerous Substances	No	No
List 2 Dangerous Substances	No	No
Pollution Incidents (EA/NRW)	No	Yes
Pollution Inventory Substances	No	No
Pollution Waste Transfers	No	No
Pollution Inventory Radioactive Waste	No	No

Table 4-11 – Details of Discharge to Controlled Waters and Pollution Incidents

Location – Off Site	Distance and Direction	Details
James Street, Cleator Moor, Cumbria	120 m E	Operator: United Utilities Water Ltd Issue Date: 19 th February 1987 Revocation Date: 30 th July 1993 Discharge Type: Public Sewage: Storm Sewage Overflow
Nor Beck Date: 16/07/1991	25 m NE	Pollutant: Oils – Petrol Severity: Category 3 (Minor) Reference: 91210057
Nor Beck Date: 22/4/1993	40 m NE	Pollutant: Rubble/Litter or Solids Severity: Category 3 (Minor) Reference: 93210028

4.4 RADON

Both the Envirocheck environmental database and the Radon interactive viewer, indicate that the site is in a higher probability radon area where 10 to 30% of homes are estimated to be above the action level, and therefore full radon protection measures are necessary in the construction of new residential properties in England and Wales.

4.5 UNEXPLODED ORDNANCE (UXO)

Based on freely available mapping data from Zetica UXO (Zetica UXO, 2008), the site is located within a low-risk area with regards to Unexploded Ordnance (UXO). Therefore, no further works are considered necessary.

5.0 ENVIRONMENTAL DATABASE SEARCH

5.1 INTRODUCTION

Regulatory authority information relevant to the site and its surroundings has been obtained from the undertaking of an environmental database search (Envirocheck). The information is summarised below, and the environmental database records are enclosed in Appendix B. Distances stated are approximate and are taken from the boundary of the site to the database recorded entries.

The following summary is generally limited to locations within 250m of the site boundaries unless it is considered that installations or activities beyond that range could potentially have an impact on the site or be affected by the redevelopment of the site.

5.2 INFILLED FEATURES

The absence or presence of infilled features at or within 250m of the wider site boundary have been summarised in Table 5.1 below and further details provided in Table 5-2.

Table 5-1 – Summary of Infilled Features

Facility Type	On Site	Off Site
Made, worked, infilled, disturbed ground	Yes	Yes

Table 5-2 – Detail of Infilled Features

Name – On Site	Location on Site	Detail
Made Ground	Sitewide	Associated with previous use as an iron and steel works, the site was used as storage of a slag heap.

Name – Off Site	Distance and Direction	Detail
Made Ground	Surrounding the entirety of the site	Associated with previous industrial use of the estate, including as an iron and steel works, railway infrastructure, haematite mining to the south, coal mining to the west of the site.
Infilled ground (water)	50 m SE	Small pond, potentially infilled – first mapped in 1925, not present on mapping after 1962.
Infilled ground (water)	70 m SE	Small pond, potentially infilled between 1962 and 1970.

5.3 WASTE

The absence or presence of waste facilities at or within 250m of the site boundary have been summarised in Table 5-3 below and detailed in 5-4.

Table 5-3 – Summary of Waste Facilities

Facility Type	On Site	Off Site
Active or Recent Landfill	No	No
Historical Landfill (BGS records)	No	No
Historical Landfill (LA/mapping records)	Yes	No
Historical Landfill (EA/NRW records)	No	No
Historical Waste Sites	No	No
Licensed Waste Sites	No	Yes
Waste Exemptions	No	No

Table 5-4 – Detail of Waste Facilities

Facility Type – On Site	Site Name & Location	Detail
Local Authority Landfill Coverage	Copeland Borough Council & Cumbria County Council	Possibly record of slag heap now removed.
Licensed Waste Site	Whitehaven Skips & Service Ltd – HCI Waste Transfer Station Unit 12, Cleator Moor, Cumbria, CA25 5QB 30 m SE	Issued: 18 th July 2017 Authority: Environment Agency – North West Region

5.4 HAZARDOUS SUBSTANCES AND HEALTH & SAFETY

There are no sites subject to restrictions in relation to Health & Safety within 1km of the site boundary as summarised in Table 5-5 below.

Table 5-5 – Summary of Facilities Subject to Active Consents within 1km of the Site

Facility Type	On Site	Off Site
Regulated Explosive Sites	No	No
Hazardous Substance Storage/Usage	No	No
Historical Licenced Industrial Activities	No	No
Licensed Industrial Activities (Part A(1))	No	No
Licenced Pollutant Release (Part A(2)/B)	No	No
Registered Radioactive Substances Consents	No	No
Control of Major Accident Hazard sites	No	No

5.5 ENVIRONMENTAL DESIGNATIONS

There are no Environmental Designations at or within 250 m of the site boundary.

5.6 FLOODING

The absence or presence of flooding potential at the site is summarised in Table 5-6 below.

Table 5-6 – Summary of Flooding Potential

Designation	On Site	Detail
Risk of Flooding from Rivers and Sea	No	-
Historical Flood Events	No	-
Flood Defences	No	-
Area Benefiting from Flood Defences	No	-
Flood Storage Areas	No	-
Flood Zone 2	No	-
Flood Zone 3	No	-
Groundwater Flooding	Yes	Potential for Groundwater Flooding of Property Situated Below Ground Level
Surface Water Flooding	No	-

6.0 HISTORICAL REPORT REVIEW

Historical reports have been made available and where applicable, by permission of Copeland Borough Council, for review. The reports provided for review are summarised in Table 6-1 below and discussed in subsequent sections. The information contained within the reports has been referred to for information only.

It should be noted that the reports listed below cover the entirety of Leconfield Industrial Estate (15.46 ha), and information relevant to Plot 19 has been summarised below.

Table 6-1 – Historical Reports

Report Name	Company	Date	For the Benefit Of	Report Reference
Leconfield Industrial Estate, Ground Investigation Factual and Interpretative Reports	WYGE	April 2007 June 2007	West Lakes Renaissance	E11126 E11683-GI-FAC
Leconfield Industrial Estate, Cleator Moor, Geo-Environmental Desk Top Study	WYG	August 2020	Copeland Borough Council	A114312
Leconfield Industrial Estate, Cleator Moor, Preliminary Ground Investigation Report	WYG	November 2020	Copeland Borough Council and Energy Coast West Cumbria Ltd	A114312-1

6.1 LECONFIELD INDUSTRIAL ESTATE, GROUND INVESTIGATION FACTUAL AND INTERPRETATIVE REPORTS – WYGE, JUNE 2007

6.1.1 Scope of Works

WYGE were commissioned by West Lakes Renaissance to undertake ground investigation works at Leconfield Industrial Estate to identify existing ground conditions.

The scope of works covered within the ground investigation for the whole site was:

- Four cable percussive boreholes;
- Six rotary open hole boreholes;
- Five rotary open hole boreholes followed by cable percussive boring;
- Eight window sample boreholes;
- Fifteen machine dug trial pits;
- Environmental sampling, and
- Ground gas monitoring.

Three of these locations (BH8, CP7, and TP4) were located on Plot 19.

6.1.2 Ground Conditions

Ground conditions encountered generally consisted of varying depths of Made Ground from 0.10 m to 8.70 m bgl, comprising slag gravel with ash, brick and coal. Made Ground was underlain by superficial deposits comprising glacial till – firm to stiff clay with occasional bands of sand and gravel. Bedrock was found at depths ranging from 8.20 to 8.80 m bgl, logged as limestone, mudstone and sandstone.

Environmental data from soil samples have not been screened against current guidance due to the data being >10 years old. Six ground gas monitoring rounds were carried out within BH1 and CP7, with maximum levels of <0.1% for CO₂ and CH₄, with no recorded flow rate. Oxygen ranged from 16.1 – 21.1%, and both boreholes were dry throughout monitoring.

6.2 LECONFIELD INDUSTRIAL ESTATE, CLEATOR MOOR, GEO-ENVIRONMENTAL DESKTOP STUDY – WYG, AUGUST 2020

6.2.1 Preliminary Contamination Risk Assessment

On-site contamination sources identified include Made Ground across the site, historical use of the site such as coal mining, iron mining, iron and steelworks, railways, slag heap storage, waste management facility, infrastructure associated with the industrial estate, ground gases from Made Ground, mine gas and radon.

Off-site sources include a petrol station, and an historical landfill.

The contamination risks posed by the on-site sources to the majority of receptors are indicated to be low with the exception of the risks posed to future site users (low to moderate), the risk to surface waters and buildings and services (moderate) and the risk from gas (high). A moderate risk was designated from off-site sources to all receptors on site.

6.2.2 Conclusions

The site lies within a complex geological setting. The western part of the site lies within a Development High Risk Area with eight known mine shafts on or within 20m of the site. In order to refine the current risk to the future development from historical coal mining activities, further investigation is required. The eastern part of the site lies in an area where between 10% to 30% of homes are estimated to be above the radon action level. The remainder of the site lies within a lower probability radon area whereby <1% of homes are estimated to be above the action level. Historical investigations show several exploratory locations were terminated at a shallow depth which is likely a result from the presence of slag gravel and dense Sand and Gravels.

6.2.3 Recommendations

As part of development proposals, if new buildings are proposed in the eastern part of the site, radon protection measures will be required. In order to further refine the risk from coal mining at the site, it is recommended that a visit to the Coal Authority to obtain abandonment plans is carried out with completion of a Preliminary Coal Mining Risk Assessment. Further work to determine if there are iron workings beneath the eastern part of the site is also required. A full ground investigation to determine the contamination risk posed to on-site receptors and the nature and type of slag deposits is also recommended.

6.3 LECONFIELD INDUSTRIAL ESTATE, CLEATOR MOOR, PRELIMINARY GROUND INVESTIGATION REPORT – WYG, NOVEMBER 2020

6.3.1 Ground Investigation

WYG were commissioned by Copeland Borough Council to carry out ground investigation works at Leconfield Industrial Estate. The works were split into two phases, outlined below.

Phase 1

- Nine window sample boreholes to a maximum depth of 4.45 m bgl with in-situ SPTs, geochemical and geotechnical sampling;
- One hand dug pit to a maximum depth of 1.20 m bgl;
- Six machine dug trial pits to a maximum depth of 2.70 m bgl;

- Two machine dug trial pits to remove slag in advance of drilling (TP101 to a depth of 2.70 m, TP104 to a depth of 1.20 m bgl), and.
- Six groundwater and gas monitoring wells installed (WS102-105, WS108-109)

Phase 2

- Geophysical surveying of accessible mineshafts by Terradat;
- Six cable percussive boreholes to a maximum depth of 15.45 m bgl, with SPTs and geotechnical sampling;
- Five rotary cored boreholes to a maximum depth of 40.95 m bgl;
- Seven open hole rotary boreholes to a maximum depth of 41.35 m bgl;
- Fifteen trial pits to a maximum depth of 1.20 m bgl to clear near surface slag cobbles and deposits for drilling;
- Nine groundwater and gas wells installed;
- Six groundwater level and gas monitoring rounds, and
- One groundwater and gas sampling monitoring round.

6.3.2 Ground Conditions for Plot 19

RBH105, RBH108, CP104 and CP105 were drilled within Plot 19. The ground conditions are summarised below. The full logs for RBH105 and RBH108 are present in Appendix C.

RBH105

Made Ground from 0.00 – 8.10 m bgl, comprising grey fine to coarse slag gravel, including cobbles and boulders.

Superficial deposits were present between 8.10 – 13.20 m bgl, described as firm to stiff reddish brown slightly sandy gravelly CLAY with low cobble content. Cobbles are angular to rounded mudstone.

Bedrock (Whitehaven Sandstone Formation) was encountered at a depth of 13.20 m, described as very weak to medium strong reddish brown/dark grey arenaceous MUDSTONE to a minimum depth of 40.80 m bgl. A thin coal seam (0.32 m) was found between 21.45 – 21.77 m.

RBH108

Made Ground from 0.00 – 2.70 m bgl, as reddish brown slightly sandy gravelly CLAY, with a gravel of fine to coarse slag, followed by slag and clinker gravel.

Superficial deposits were present between 2.70 – 14.70 m bgl, as brown clay, clay and cobbles, sand, sand and gravel with grey mudstone.

Bedrock (Middle Coal Measures) was encountered at 14.70 m bgl, described as hard grey MUDSTONE, to a minimum depth of 40.00 m bgl.

CP104

Made Ground from 0.00 – 8.00 m bgl, as grey slag gravel.

Superficial deposits were encountered between 8.00 – 9.20 m bgl, composed of red clay, and brown sandy gravelly clay.

Weathered bedrock material was recovered from 9.20 – 15.14, recovered as highly weathered dark grey mudstone, as gravelly sand.

CP105

Made Ground from 0.00 – 2.00 m bgl, as stiff reddish brown sandy silty clay.

Superficial deposits were present between 2.00 – 8.64 m bgl, composed of reddish brown very sandy gravel, and dark grey sandy gravel.

CP105 was terminated at 8.64 m bgl upon refusal.

6.3.3 Contamination

There are 4 No. investigation locations within Plot 19 from the ground investigation in 2020: RBH105, RBH108, CP104 and CP105.

Elevated levels of copper, ammoniacal nitrogen, nitrite and PAHs were found in soil and groundwater samples from CP104. There were no other exceedances of commercial screening values in RBH105, RBH108 and CP105.

7.0 CONCEPTUAL SITE MODEL AND PRELIMINARY GROUND CONTAMINATION RISK ASSESSMENT

7.1 OVERVIEW

The information presented in the previous sections of this report have been collated and evaluated to establish an initial qualitative risk assessment for the site. A conceptual model of the site has been generated based on information derived from this Phase 1 Geo-environmental Assessment.

The site has been considered with regard to current UK legislation and guidance, namely Part 2A of the Environmental Protection Act 1990 and the Contaminated Land (England) Regulations 2006, as amended, and in accordance with current UK good practice guidelines (for example BS10175:2011).

In general, ground contamination can occur through several causes, particularly from historical operations and activities. Contamination can result from either on-site sources or from on-site migration from off-site sources, leading to long term liabilities under recent legislation for any site owner.

For a risk of pollution or environmental harm to occur as a result of ground contamination, all of the following elements must be present:

- Source, i.e. a substance that is capable of causing pollution or harm;
- Pathway, i.e. a route by which the contaminant can reach a target; and
- Receptor (target), i.e. something which could be adversely affected by the contaminant.

If one of these elements is absent there can be no significant risk. If all are present then the magnitude of the risk is a function of the magnitude and mobility of the source, the sensitivity of the receptor and the nature of the migration pathway.

7.2 CURRENT SITE USAGE AND PROPOSED DEVELOPMENT

The site is currently disused, with the demolished building previously used in association with the industrial estate. The majority of the industrial estate in the surrounding area is still in use for aluminium extrusions, robotics, plumbing supplies, manufacture of scientific instruments, and open storage.

The proposed development consists of temporary use of the site for a period of 18 months, to construct a 7 m chimney replica, to be used for trial cutting and lifting operations. The site will be returned to pre-development conditions after the 18-month period. A proposed development layout was not provided at the time of writing.

7.3 CONCEPTUAL SITE MODEL

The key source, pathways and receptor model is outlined below within the context of potential development of the site.

7.3.1 Potential Sources of Contamination

Potential sources within the proposed development area include the following:

On-site Sources

- Historical industrial use of the site as an iron and steel works, railway land and slag heaps.
- Made Ground including asbestos – remnant demolition material from large industrial warehouse building.
- Made Ground – ground gas and vapours.
- Mine Gas – potential ground gas associated with possible shallow mine workings and geological faults underlying the site.

- Radon – potential for gas accumulation in on-site structures.

Off-site Sources

- Made Ground – potential contaminants associated with current surrounding land uses including petrol stations, electricity sub-stations, tanks and former industrial land uses such as coal mining, iron mining, railway and goods station.
- Made Ground – infilled ponds.

Any potential off-site contaminants identified that are also found to be on-site have already been considered with on-site sources.

7.3.2 Potential Contaminant Pathways

The following contaminant pathways are considered to potentially be active based on the current site use and proposed development:

Human Exposure Pathways

- Direct dermal contact or ingestion of soils, or inhalation of dust and/or vapours (i.e. human interaction with surface and sub-surface materials).

Environmental Pathways

- Leaching and horizontal or vertical migration through the unsaturated ground, either through permeable sub-surface materials and/or preferential pathways.
- Lateral and vertical migration of groundwater through permeable sub-surface materials and/ or preferential pathways.
- Leaching to surface water run-off/drainage.
- The migration and accumulation of gases or vapours through permeable sub-surface materials and/ or preferential pathways.

7.3.3 Potential Receptors at Risk

The following potential receptors have been identified:

Human Health

- Future site users (commercial).
- Construction / Maintenance Workers (during and post construction).
- Adjacent site users (residential/commercial).

Wider Environment

- Controlled Waters: Surface Waters (Nor Beck).
- Flora & Fauna.
- Building Infrastructure and supply pipes.
- Adjacent Properties.
- Controlled Waters: Secondary Undifferentiated and Secondary A Aquifers (Glacial Till, and Middle Coal Measures/Whitehaven Sandstone Formation, respectively).

7.4 GROUND CONDITIONS RISK ASSESSMENT

The source, pathway, receptor linkages identified in the previous section are outlined and a qualitative risk assessment shown in the following tables.

The risk assessment considers the site within an area context and assesses potential risks to identified receptors in relation to the existing site setting and the proposed development. CIRIA C552 has been used to define the risk rating presented in the Qualitative Risk Assessment matrix, the methodology for which is presented in Appendix E.

Table 8-1 – CIRIA C552 Qualitative Risk Assessment (On Site Sources)

This matrix is based on CIRIA C552 risk evaluation methodology, definitions for risk ratings is presented in Appendix E						
Source	Pathway	Receptor	Consequence of risk being realised	Probability of risk being realised	Risk Classification	Justification & Potential Risk Management (if required)
Made Ground – contaminants associated with historical industrial use of the site as an iron and steel works, railway and slag heaps	Dermal contact, ingestion and/or inhalation of or dusts	Human Health – Future site users (commercial)	Severe	Unlikely	Moderate/Low	Insufficient data on chemical composition of Made Ground on-site, total of two environmental samples in 2020 from 0.2-0.5 m bgl. Uncertainties on composition of Made Ground below 0.5 m, Made Ground has been shown to extend to 8.10 m bgl in RBH105 (on-site). Further environmental sampling of Made Ground should be undertaken as part of an additional ground investigation across the site to eliminate this risk.
		Human Health (Construction and Maintenance Workers with PPE)		Unlikely	Moderate/Low	Risk should be reduced to low through the use of appropriate site practices and PPE.
	Leaching to groundwater, drainage and lateral / vertical migration.	Human Health – Future site users (commercial)	Medium	Unlikely	Low	There is a significant thickness of Made Ground present sitewide. The majority of the Made Ground has been present on-site >50 years, and therefore ongoing leaching is unlikely to hold any contaminant concentrations of significance, and this is unlikely to pose a risk to future site users.
		Human Health (Construction and Maintenance Workers with PPE)	Medium	Unlikely	Low	Risk should be reduced to low through the use of appropriate site practices and PPE.
	Leaching to groundwater, drainage and lateral / vertical migration.	Controlled Waters (Nor Beck)	Medium	Unlikely	Low	There is a significant thickness of Made Ground present sitewide. The majority of the Made Ground has been present on-site >50 years, and therefore ongoing leaching is unlikely to hold any contaminant concentrations of significance, and this is unlikely to pose a risk to surface waters and adjacent site users.
		Adjacent site users (residential/commercial).	Medium	Unlikely	Low	

		Controlled Waters: (Secondary A and Secondary Undifferentiated Aquifer)	Medium	Unlikely	Low	There is a significant thickness of Made Ground present sitewide. The majority of the Made Ground has been present on-site >50 years, and therefore ongoing leaching is unlikely to hold any contaminant concentrations of significance. The dilution factor from groundwater bodies will also further diminish any risk of water contamination. Superficial deposits comprise glacial till (logged as slightly sandy gravelly CLAY) which may act as a barrier to any leaching contaminants near the surface. Both bedrock strata have been designated as Secondary A Aquifers. Secondary A Aquifers have permeable layers capable of supporting water supplies at a local rather than strategic scale, which would also further reduce the risk to groundwater.
	Migration along/into service ducts and pipework	Buildings and Services	Medium	Unlikely	Low	There is a significant thickness of Made Ground present sitewide. The majority of the Made Ground has been present on-site >50 years, and therefore ongoing leaching is unlikely to hold any contaminant concentrations of significance.
Made Ground including asbestos – remnant demolition material from large industrial warehouse building	Dermal contact, ingestion and/or inhalation of or dusts	Human Health – Future Site Users	Severe	Unlikely	Moderate/Low	Asbestos not detected in two on-site samples from 2020. Warehouse built pre-2000 therefore potential for ACM to be used in construction. Further sampling required to eliminate the risk of asbestos in shallow soils.
		Human Health (Construction and Maintenance Workers with PPE)	Severe	Unlikely	Moderate/Low	Risk should be reduced to low through the use of appropriate site practices and PPE.
Made Ground – ground gas and vapours.	Generation and migration / accumulation of ground gases	Human Health – Future Site Users	Severe (Asphyxiation & Explosion)	Unlikely	Moderate/Low	Ground gas monitoring carried out across the wider site, but no data from Plot 19. Further information required to refine the assessed risk from ground gases to future site users and buildings.
		Buildings and Services	Severe (Explosion)	Unlikely	Moderate/Low	
Mine Gas – potential ground gas associated with coal mining	Generation and migration / accumulation	Human Health – Future Site Users	Severe (Asphyxiation & Explosion)	Low likelihood	Moderate	Ground gas monitoring carried out across the wider site, but no data from Plot 19. Complex fault situation may increase potential for gas migration to the surface. Further information required to refine the assessed risk from ground gases to future site users and buildings.

and geological faults underlying the site	of ground gases	Buildings and Services	Severe (Explosion)	Unlikely	Moderate/Low	Ground gas monitoring carried out across the wider site, but no data from Plot 19. Complex fault situation may increase potential for gas migration to the surface. Low methane levels (<0.1%) in monitored wells from wider site in closer proximity to mine shafts, but further on-site information required to refine the assessed risk from ground gases to buildings.
Radon – potential for gas accumulation in on-site structures	Generation and migration / accumulation of ground gases	Human Health – Future Site Users	Severe (Carcinogenic)	Low	Moderate	The site is within a higher probability radon area, indicating an estimated 10 to 30% of homes are estimated to be above the action level for radon. No future site users are anticipated to be living or working within any structures on site, and therefore the risk is low with regard to radon gas.
		Human Health (Construction and Maintenance Workers with PPE)				

Table 8-2 – CIRIA C552 Qualitative Risk Assessment (Off Site Sources)

This matrix is based on CIRIA C552 risk evaluation methodology, definitions for risk ratings is presented in Appendix E						
Source	Pathway	Receptor	Consequence of risk being realised	Probability of risk being realised	Risk Classification	Potential risk management requirements
Made Ground – potential contaminants associated with current surrounding land uses including petrol stations, electricity sub-stations, tanks and former industrial land uses such as coal mining, iron mining, railway and goods station.	Dermal contact, ingestion and/or inhalation of or dusts	Human Health – Future site users (commercial)	Severe	Unlikely	Moderate/Low	Contamination was found across the wider industrial estate, including exceedances of commercial screening values. Further information is required on site to refine the risk from off-site sources to shallow soils on site.
		Human Health (Construction and Maintenance Workers with PPE)	Severe	Unlikely	Moderate/Low	Risk reduced to low through the use of appropriate site practices and PPE.
	Leaching to groundwater, drainage and lateral / vertical migration.	Human Health – Future Site Users	Medium	Unlikely	Low	Based on the distance of the closest potentially contaminative off-site sources, presence of Secondary Aquifers and the cohesive superficial stratum underlying the site, it is unlikely that contaminants would leach onto site in significant concentrations. However, this risk would require mitigation by further investigation.
		Controlled Waters: (Secondary A and Secondary Undifferentiated Aquifer)	Medium	Unlikely	Low	
	Generation and migration / accumulation of ground gases	Human Health – Future site users (commercial)	Severe (Asphyxiation & Explosion)	Unlikely	Moderate/Low	Some potential for the presence of mine gas from coal mining in the area. Faulting and fractures in bedrock may provide a pathway to receptors on site, however a significant volume or concentration of gases is unlikely, and ground gas monitoring carried out in 2020 did not find any considerable concentrations of methane. Predominantly impermeable superficial deposits (glacial till – clay) may also contribute to reduce the risk from ground gases by forming a barrier between bedrock fractures and the surface. Risk to construction workers can be reduced to low through the use of appropriate site practices and PPE.
		Human Health (Construction and Maintenance Workers with PPE)		Unlikely	Moderate/Low	
Made Ground – infilled ponds.	Dermal contact, ingestion and/or	Human Health – Future site users (residential with plant uptake)	Severe	Unlikely	Moderate/Low	Unknown composition of Made Ground used to infill former ponds. Unlikely to contribute to significant levels of contamination on site.

	inhalation of or dusts	Human Health (Construction and Maintenance Workers with PPE)	Severe	Unlikely	Moderate/Low	Risk reduced to low through the use of appropriate site practices and PPE.
	Leaching to groundwater, drainage and lateral / vertical migration.	Human Health – Future Site Users	Medium	Low	Moderate/Low	Unknown composition of Made Ground used to infill former ponds. Given the age of the material, leaching unlikely to contain contaminants at high concentrations. Therefore it is unlikely to contribute to significant levels of contamination within groundwater on-site or nearby.
		Controlled Waters: (Secondary A and Secondary Undifferentiated Aquifer)	Medium	Low	Moderate/Low	

8.0 CONCLUSIONS

The risk from ground contamination at the site is generally considered to be as follows:

- For future site users and construction workers, the risk is considered to be **Moderate/Low** from Made Ground.
- Building infrastructure and supply pipes specifically water supply pipes the risk is considered to be **Moderate/Low** in the absence of mitigation.
- For Controlled Waters (Secondary A and Secondary Undifferentiated Aquifer) the risk is considered to be **Low** from the contamination sources identified.

The risk from ground gas is considered to be as follows:

- **Moderate/Low** rating related to the potential for gases generated from the unknown composition of potentially infilled land onsite and the potential presence of unrecorded shallow mine workings.
- **Moderate/Low** rating related to local areas of infilled land off-site relating to the surrounding coal mining legacy.
- **Moderate/Low** rating related to potential mine gas generated from deeper underground workings and migration via geological faults both on and off site.

The risk of off-site sources impacting the site is considered to be as follows:

- **Moderate/Low** risk is posed to Human Health from off-site sources.
- **Moderate/Low** risk is posed to groundwater in relation to leaching of potentially contaminative sources.

In consideration of the nature of the proposed development, the above risks are considered to be mitigated to **low** for the future site users although construction workers should adopt PPE and site practices to mitigate short term exposures to Made Ground.

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DRAWINGS



Site Location Plan

Plot 19

Doosan Babcock



Legend

- Site boundary
- Wider Cleator Moor Innovation Quarter (CMIQ) Site

Notes:

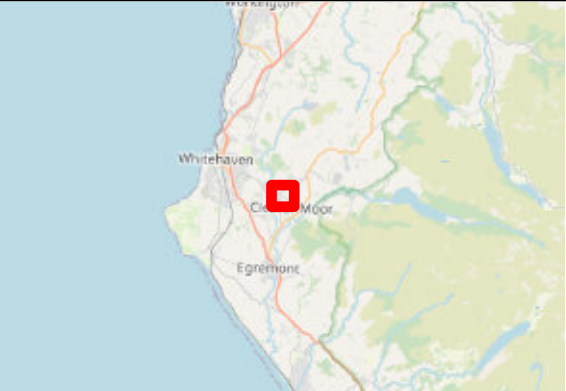
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Checked by: EW
Office: Southampton

Figure No. 1
Revision No. A

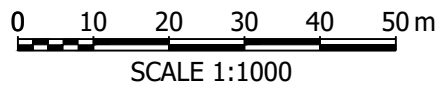
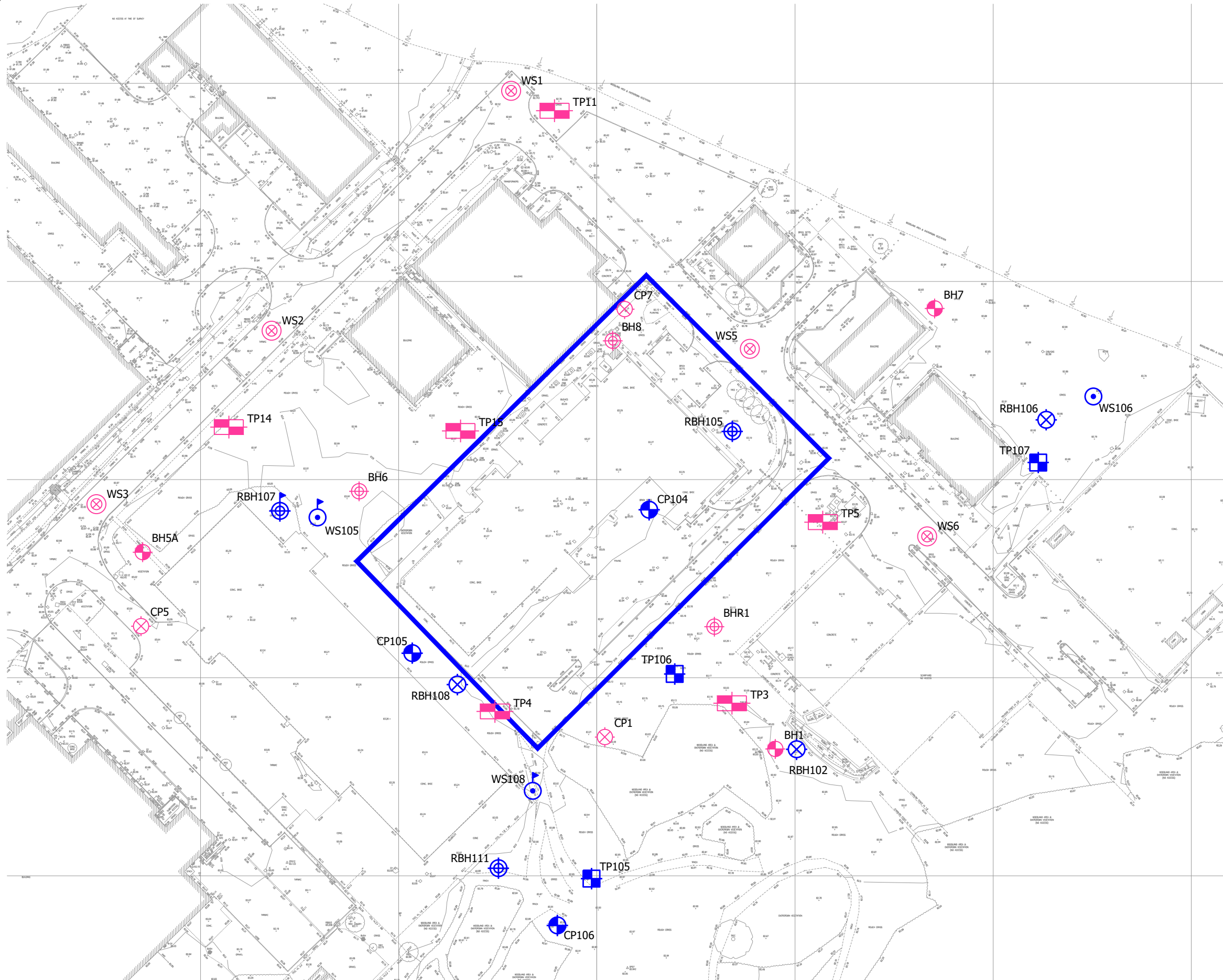
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The Pavilion, 1st Floor
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Hampshire, SO30 2AF



KEY



SITE BOUNDARY

WYG GROUND INVESTIGATION 2020



CABLE PERCUSSIVE BOREHOLES



ROTARY OPEN HOLES



ROTARY CORED HOLES



TRIAL PITS



WINDOWLESS SAMPLING BOREHOLES



GAS & GROUNDWATER MONITORING INSTALLATIONS

WYG GROUND INVESTIGATION 2007



CABLE PERCUSSION BOREHOLES



ROTARY OPENHOLE BOREHOLES



ROTARY OPENHOLE FOLLOWED BY CABLE PERCUSSIVE BORING



WINDOW SAMPLING HOLES



TRIAL PITS

PRELIMINARY ISSUE

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Client
DOOSAN BABCOCK LIMITED

Project Name
CMIQ - PLOT 19

Sheet Title
PREVIOUS GROUND INVESTIGATION LOCATIONS

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Subsidiary
B038542	CM	20.05.22	JM	20.05.22	SB	20.05.22	1:1,000	S2
Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision	
B038542	TTE	- 00	- XX	- DR	- U	- 0001		P01

APPENDICES

APPENDIX A – REPORT CONDITIONS

APPENDIX A - REPORT CONDITIONS

GEO-ENVIRONMENTAL DESK-TOP REVIEW

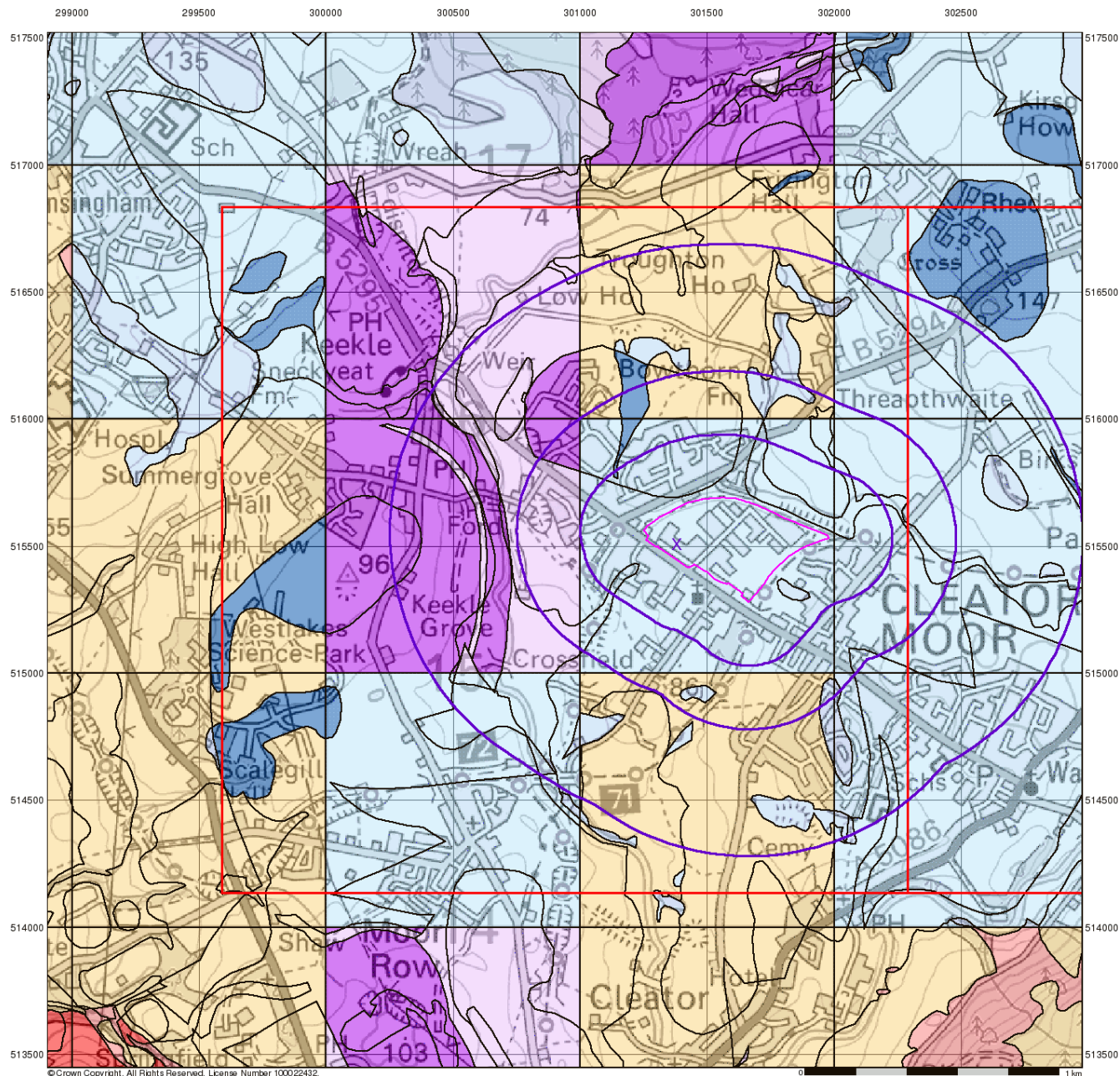
This report is produced solely for the benefit West Lancashire and Lancashire County Council and no liability is accepted for any reliance placed on it by any other party unless specifically agreed in writing otherwise.

This report refers, within the limitations stated, to the condition of the site at the time of the inspections. No warranty is given as to the possibility of future changes in the condition of the site.

This report is based on a study of readily accessible referenced historical records. Some of the opinions are based on unconfirmed data and information and are presented in good faith without exhaustive clarification. Where ground conditions are discussed but no physical site test results are available to confirm this, the report must be regarded as initial advice only, and further assessment should be undertaken prior to detailed activities related to the site. Where test results undertaken by others have been made available these can only be regarded as a limited sample.

Whilst confident in the findings detailed within this report because there are no exact UK definitions of these matters, we are unable to give categorical assurances that they will be accepted by Authorities or Funds etc. without question, as such bodies may have unpublished, often more stringent objectives. This report is prepared for the proposed uses stated in the report and should not be used in a different context without reference to Tetra Tech. In time improved practices or amended guidance may necessitate a re-assessment. The opinions expressed cannot be absolute due to the limitations of time and resources within the context of the agreed brief and the possibility of unrecorded previous use and abuse of the site and adjacent sites. The report concentrates on the site as defined in the report and provides an opinion on surrounding sites.

APPENDIX B – ENVIROCHECK REPORT



Groundwater Vulnerability

General

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

Agency and Hydrological

Bedrock Aquifers

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

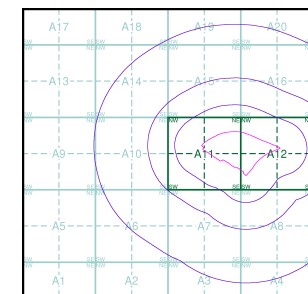
Superficial Aquifers

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

Unproductive Aquifer

Soluble Rock

Site Sensitivity Context Map - Slice A



Order Details

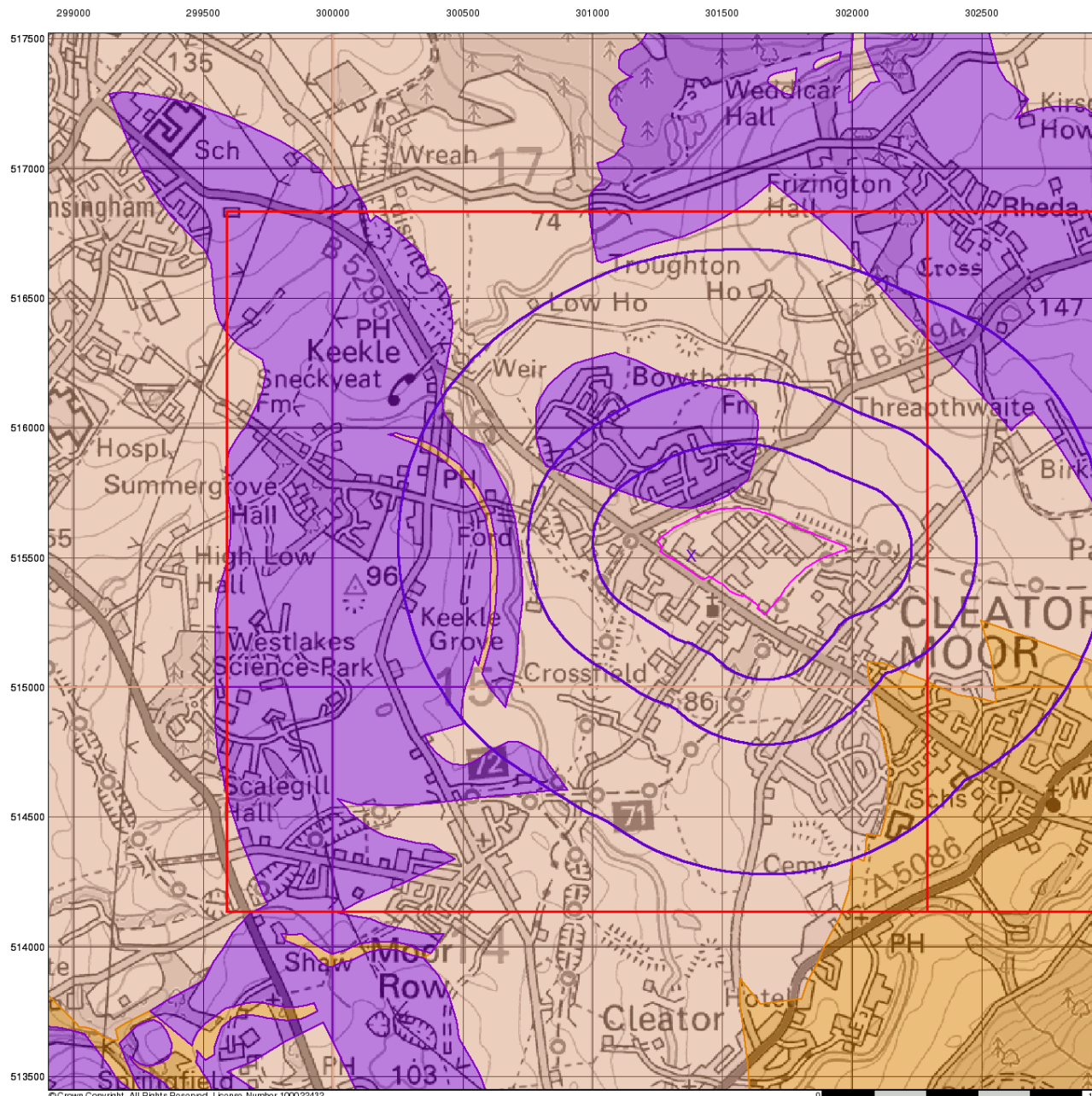
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 National Grid Reference: 301380, 515510
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 Site Area (Ha): 15.46
 Search Buffer (m): 1000

Site Details

Leconfield Industrial Estate, CLEATOR MOOR, CA25 5QQ

Landmark
 INFORMATION GROUP

Tel: 0844 844 9952
 Fax: 0844 844 9951
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Bedrock Aquifer Designation

General

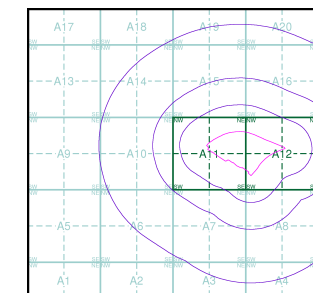
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

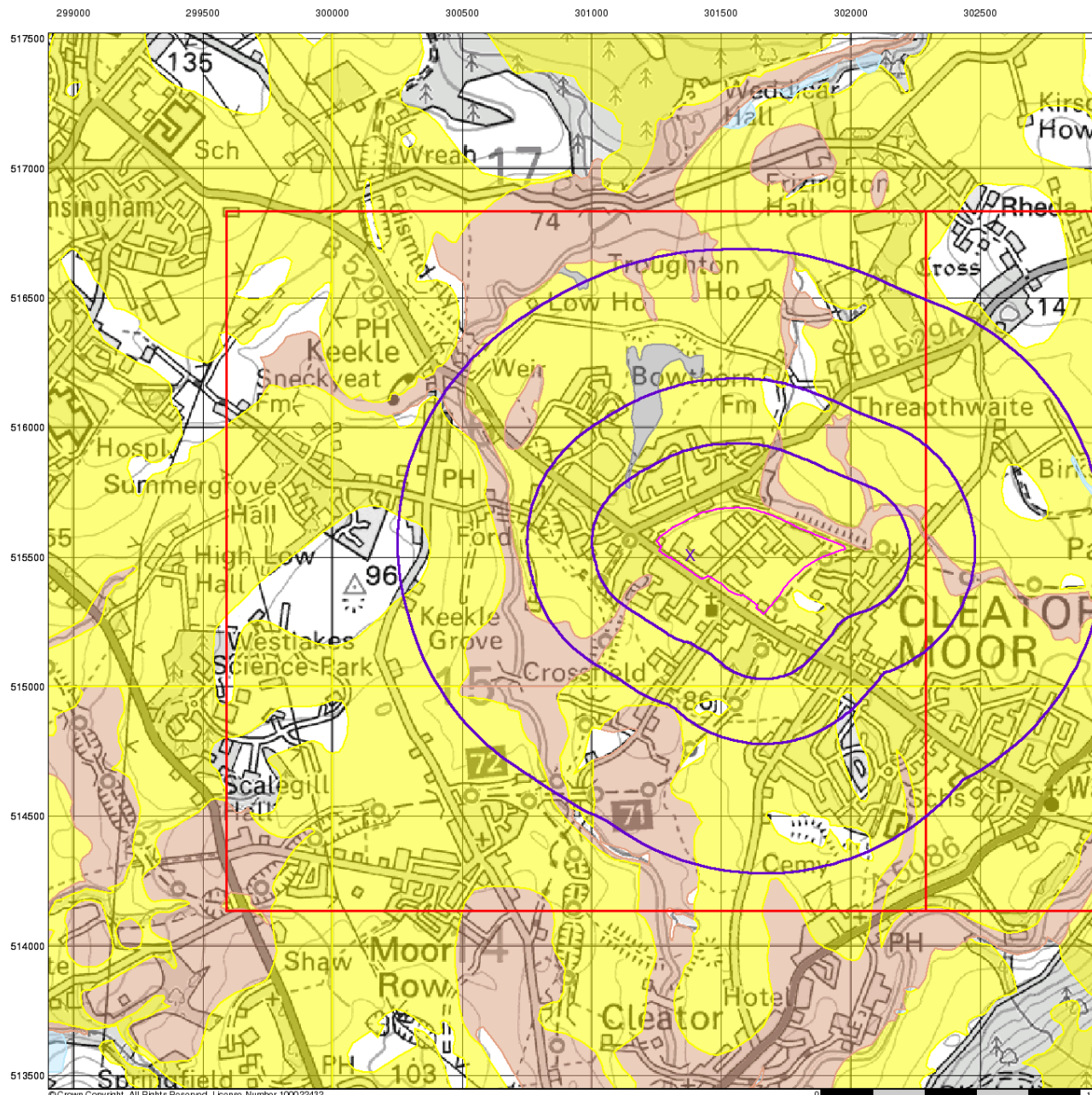
Order Number: 224379683_1_1
 Customer Ref: A114312
 National Grid Reference: 301380, 515510
 Slice: A
 Site Area (Ha): 15.46
 Search Buffer (m): 1000

Site Details

Leconfield Industrial Estate, CLEATOR MOOR, CA25 5QQ

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Superficial Aquifer Designation

General

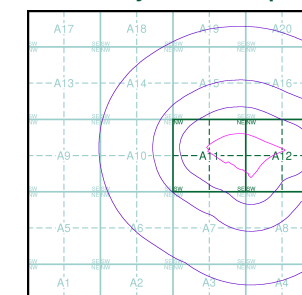
- Specified Site
- Specified Buffer(s)
- Slice
- Bearing Reference Point
- Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

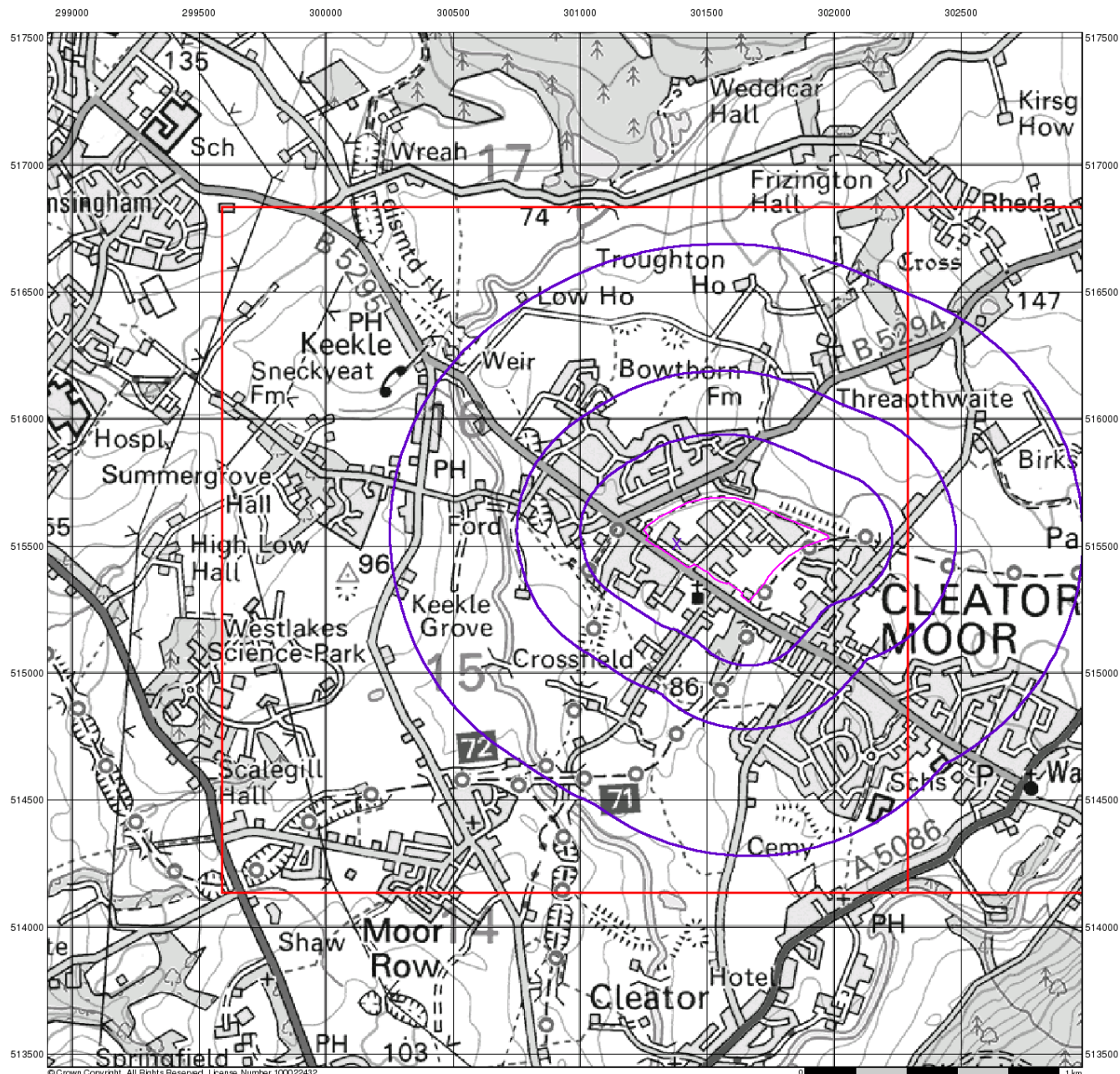
Order Number: 224379683_1_1
 Customer Ref: A114312
 National Grid Reference: 301380, 515510
 Slice: A
 Site Area (Ha): 15.46
 Search Buffer (m): 1000

Site Details

Leconfield Industrial Estate, CLEATOR MOOR, CA25 5QQ

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Source Protection Zones

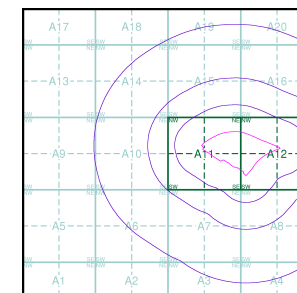
General

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

Agency and Hydrological

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

Site Sensitivity Context Map - Slice A



Order Details

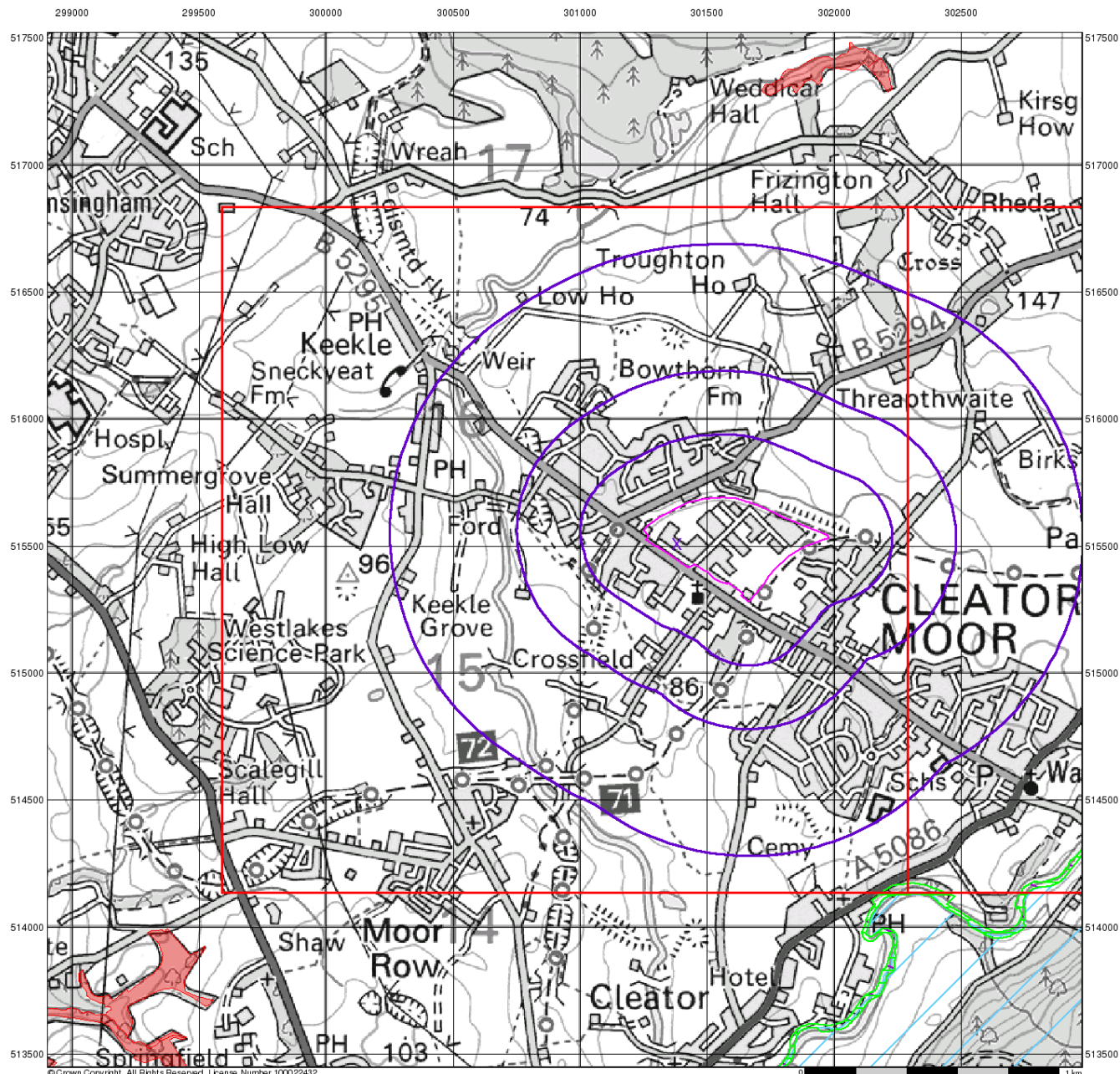
Order Number: 224379683_1_1
 Customer Ref: A114312
 National Grid Reference: 301380, 515510
 Slice: A
 Site Area (Ha): 15.46
 Search Buffer (m): 1000

Site Details

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Sensitive Land Uses

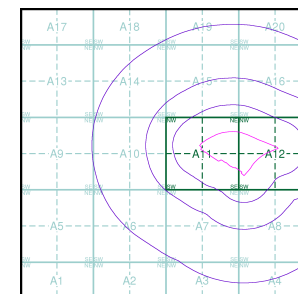
General

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

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice A



Order Details

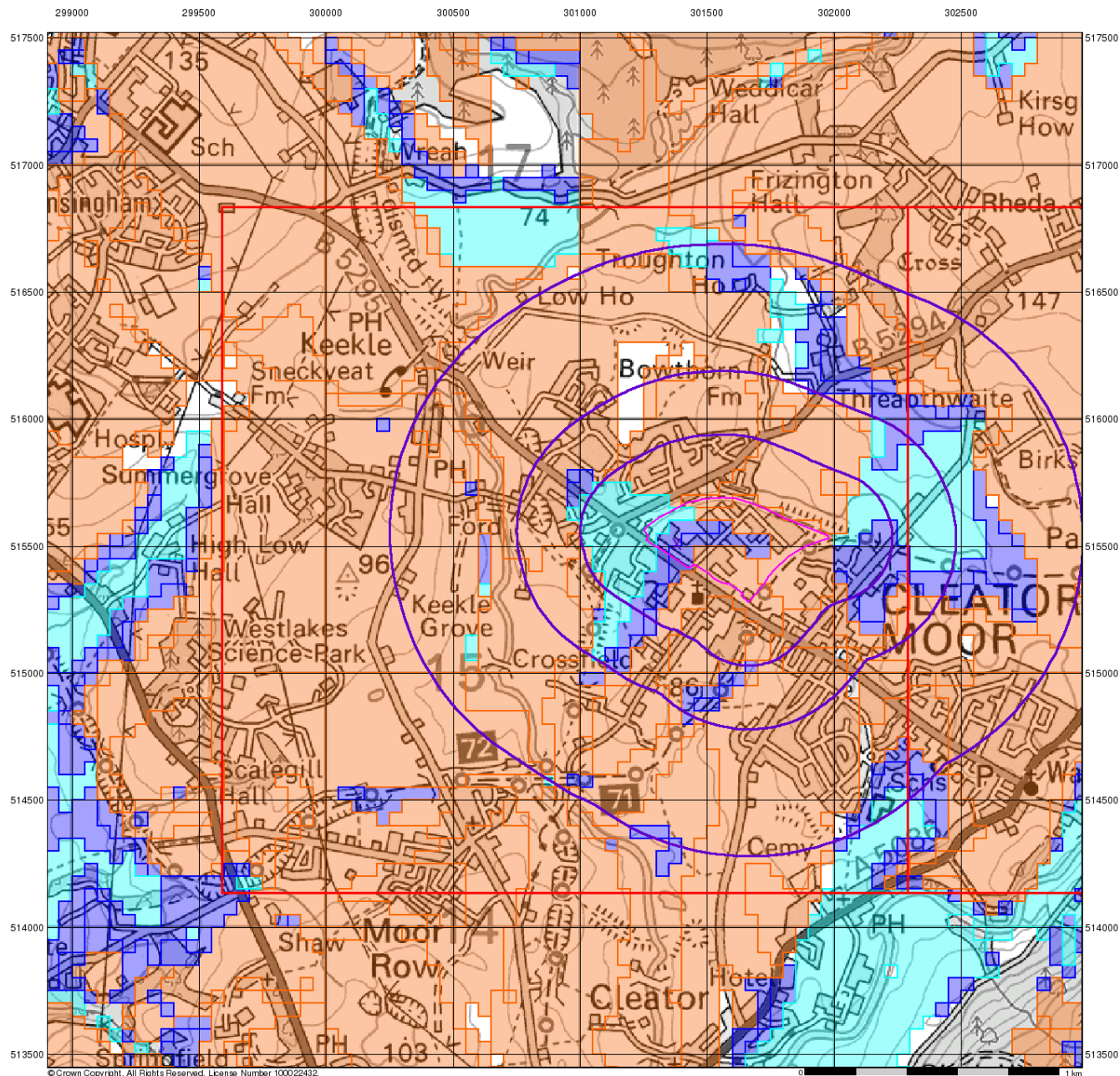
Order Number: 224379683_1_1
 Customer Ref: A114312
 National Grid Reference: 301380, 515510
 Slice: A
 Site Area (Ha): 15.46
 Search Buffer (m): 1000

Site Details

Leconfield Industrial Estate, CLEATOR MOOR, CA25 5QQ

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BGS Flood GFS Data

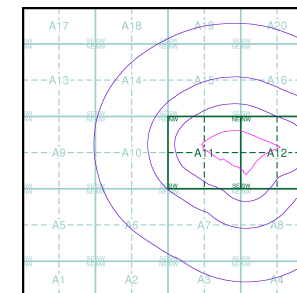
General

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

Agency and Hydrological (Flood)

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

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 224379683_1_1
 Customer Ref: A114312
 National Grid Reference: 301380, 515510
 Slice: A
 Site Area (Ha): 15.46
 Search Buffer (m): 1000

Site Details

Leconfield Industrial Estate, CLEATOR MOOR, CA25 5QQ

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Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

224379683_1_1

Customer Reference:

A114312

National Grid Reference:

301380, 515510

Slice:

A

Site Area (Ha):

15.46

Search Buffer (m):

1000

Site Details:

Leconfield Industrial Estate

CLEATOR MOOR

CA25 5QQ

Client Details:

Ms C Martin

WYG Environment Planning Transport Ltd

Quay West

Trafford Park Road

Salford Quays

Manchester

M17 1HH



Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	23
Hazardous Substances	-
Geological	28
Industrial Land Use	41
Sensitive Land Use	-
Data Currency	48
Data Suppliers	52
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Introduction

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

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Report Version v53.0



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 3		7	2	8
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control	pg 7	2			
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 8		1		
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 8		Yes		
Pollution Incidents to Controlled Waters	pg 8	1	1	3	6
Prosecutions Relating to Authorised Processes	pg 10				1
Registered Radioactive Substances					
River Quality	pg 10				1
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 10				(*4)
Water Industry Act Referrals	pg 11	2			
Groundwater Vulnerability Map	pg 11	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk	pg 11	1	n/a	n/a	n/a
Groundwater Vulnerability - Local Information			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 12	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 12	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 12	Yes	Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 13		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 14	1	18	11	45



Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites	pg 23				1
Historical Landfill Sites	pg 23		1	1	3
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 24	1			
Local Authority Landfill Coverage	pg 24	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites	pg 24				1
Potentially Infilled Land (Non-Water)	pg 24		5	6	13
Potentially Infilled Land (Water)	pg 26	4	4	2	1
Registered Landfill Sites	pg 26			1	3
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					



Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 28	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 28	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 32		1	7	15
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 36	Yes	n/a	n/a	n/a
Mining Instability	pg 36	Yes	n/a	n/a	n/a
Man-Made Mining Cavities	pg 36		2	3	3
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 38	Yes	Yes	n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 38	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 38	Yes	Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 39	Yes	Yes	n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 39	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 39	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 39	Yes		n/a	n/a
Radon Potential - Radon Affected Areas	pg 39	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures	pg 39	Yes	n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 41	15	9	10	3
Fuel Station Entries	pg 44		1		
Points of Interest - Commercial Services	pg 44		8	3	3
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 45			3	5
Points of Interest - Public Infrastructure	pg 46		4	3	
Points of Interest - Recreational and Environmental	pg 46			2	4
Gas Pipelines					
Underground Electrical Cables					



Summary

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



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11NE (N)	0	1	301400 515650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A11NE (NW)	0	1	301350 515550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A11NE (N)	0	1	301382 515509
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A11NE (S)	0	1	301382 515500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11NE (NE)	0	1	301450 515600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11NE (E)	0	1	301450 515500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11NE (N)	0	1	301382 515650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12NE (E)	22	1	302000 515509
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11SE (SE)	33	1	301500 515300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (E)	38	1	302000 515500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A11SE (S)	97	1	301350 515350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SW (SE)	122	1	301800 515250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (E)	132	1	302000 515400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NW (E)	137	1	301950 515700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11NW (NW)	178	1	301200 515750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (E)	179	1	302000 515350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11SW (W)	203	1	301100 515400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A11SE (S)	208	1	301300 515250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (SE)	227	1	301800 515100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (SE)	230	1	301650 515050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NE (S)	231	1	301550 515050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (E)	242	1	302050 515300



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	A11NW (NW)	245	1	301050 515700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11NW (W)	251	1	301000 515509
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (SE)	280	1	301650 515000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7NE (SE)	281	1	301600 515000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NE (S)	283	1	301600 514950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (E)	286	1	302200 515350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7NE (S)	287	1	301550 515000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (E)	302	1	302250 515400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NE (S)	302	1	301382 515000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A16SW (NE)	308	1	301800 515950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (E)	312	1	302150 515800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A11NW (NW)	314	1	301000 515750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A11SW (SW)	318	1	301100 515250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A11SW (S)	319	1	301250 515150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (E)	320	1	302200 515300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7NE (S)	336	1	301550 514950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(E)	347	1	302300 515400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7NE (S)	349	1	301400 514950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (SE)	353	1	302100 515200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A15SE (N)	354	1	301300 516000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A16SE (NE)	354	1	302150 515850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(E)	369	1	302300 515350



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	A7NW (SW)	388	1	301200 515100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (SE)	391	1	302150 515100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7NE (S)	397	1	301450 514900
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (SE)	411	1	302050 515100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7NW (SW)	416	1	301150 515100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A16SW (NE)	425	1	301900 516050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NE (S)	434	1	301300 515000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NW (SW)	470	1	301050 515100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NW (S)	473	1	301200 515000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A16SW (NE)	485	1	301900 516100
1	Discharge Consents Operator: United Utilities Water Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: James Street Sso, Cleator Moor, Cumbria Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 017470312 Permit Version: 1 Effective Date: 19th February 1987 Issued Date: Not Supplied Revocation Date: 30th July 1993 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Keekle Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A12NE (E)	92	2	302060 515490
2	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Norbeck Park A Cso (Site 023a9) Norbeck Park A, ., Cleator Moor, Cumbria, Ca25 5rl Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 017480286 Permit Version: 2 Effective Date: 5th March 2018 Issued Date: 5th March 2018 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Norbeck Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A11SW (SW)	196	2	301140 515370



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Norbeck Park A Cso (Site 023a9) Norbeck Park A, ., Cleator Moor, Cumbria, Ca25 5rl Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 017480286 Permit Version: 1 Effective Date: 30th September 1994 Issued Date: Not Supplied Revocation Date: 4th March 2018 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Norbeck Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 100m	A11SW (SW)	196	2	301140 515370
2	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Crossings Close 'C', Cleator Moor, Copeland, Cumbria Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01COP0084 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Norbeck Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 10m	A11SW (SW)	196	2	301140 515370
2	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Norbeck Park A Cso (Site 023a9) Norbeck Park A, ., Cleator Moor, Cumbria, Ca25 5rl Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01COP0083 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 1st January 1995 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Norbeck Status: Consent revoked or revised: New Consent issued (Section 37(1)) Positional Accuracy: Located by supplier to within 100m	A11SW (SW)	197	2	301145 515365
2	Discharge Consents Operator: United Utilities Water Plc (?) Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Rear Garden Of 16 Crossings Close, Cleator Moor, Cumbria, Ca25 5qh Authority: Environment Agency, North West Region Catchment Area: Keele Reference: 017480387 Permit Version: 1 Effective Date: 23rd October 2003 Issued Date: 23rd October 2003 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Nor 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	A11SW (SW)	204	2	301140 515360



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Norbeck Park A Cso (Site 023a9) Norbeck Park A, ., Cleator Moor, Cumbria, Ca25 5rl Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01cop0075 Permit Version: 1 Effective Date: 15th September 1993 Issued Date: Not Supplied Revocation Date: 15th September 1993 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Nor Beck Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A11SW (SW)	218	2	301130 515350
3	Discharge Consents Operator: United Utilities Water Limited Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: Crossings Close, Cleator Moor, Cumbria Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 017470083 Permit Version: 1 Effective Date: 7th September 1993 Issued Date: Not Supplied Revocation Date: 7th September 1993 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Norl Beck Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A11SW (SW)	390	2	301030 515210
3	Discharge Consents Operator: United Utilities Water Limited Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: Crossings Close, Cleator Moor, Cumbria Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01cop0002 Permit Version: 1 Effective Date: 13th May 1993 Issued Date: Not Supplied Revocation Date: 1st January 1995 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Unknown Environment: Receiving Water: Unknown Outlet; Licence Status: Revoked Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A11SW (SW)	390	2	301030 515210
4	Discharge Consents Operator: United Utilities Water Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Crossing Close Sso, Cleator Moor, Cumbria Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 017470010 Permit Version: 1 Effective Date: 4th July 1979 Issued Date: Not Supplied Revocation Date: 30th July 1993 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Keekle Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A10SE (W)	578	2	300710 515350



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	Discharge Consents Operator: Cmb Properties Limited Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: Keekle Flats, Whitehaven Road, Keekle, Cumbria, Ca25 5rj Authority: Environment Agency, North West Region Catchment Area: Keekle Reference: 017490402 Permit Version: 1 Effective Date: 9th July 2004 Issued Date: 9th July 2004 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Keekle 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	A14SW (NW)	802	2	300580 516000
6	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Blind Lane Cso 02627 Blind Lane, ., Cleator Moor, Cumbria, Ca25 5bu Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 017580238 Permit Version: 1 Effective Date: 18th June 1992 Issued Date: Not Supplied Revocation Date: 17th August 2004 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Keekle Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 100m	A6SE (SW)	937	2	300870 514660
6	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Blind Lane Cso 02627 Blind Lane, ., Cleator Moor, Cumbria, Ca25 5bu Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 017580238 Permit Version: 3 Effective Date: 2nd July 2018 Issued Date: 2nd July 2018 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Keekle Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A6SE (SW)	976	2	300830 514640
6	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Blind Lane Cso 02627 Blind Lane, ., Cleator Moor, Cumbria, Ca25 5bu Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 017580238 Permit Version: 2 Effective Date: 18th August 2004 Issued Date: 18th August 2004 Revocation Date: 1st July 2018 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Keekle Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A6SE (SW)	976	2	300830 514640



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Blind Lane Cso 02627 Blind Lane, ., Cleator Moor, Cumbria, Ca25 5bu Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01COP0089 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 18th August 2004 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Keekle Status: Consent revoked or revised: New Consent issued (Section 37(1)) Positional Accuracy: Located by supplier to within 10m	A6SE (SW)	976	2	300830 514640
7	Discharge Consents Operator: United Utilities Water Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Keekle Ps, Copeland, Cumbria Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 017470076 Permit Version: 1 Effective Date: 2nd March 1982 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Keekle Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m	A14NW (NW)	967	2	300500 516170
7	Discharge Consents Operator: United Utilities Water Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Keekle Ps, Copeland, Cumbria Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 017470076 Permit Version: 1 Effective Date: 2nd March 1982 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Keekle Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A14NW (NW)	967	2	300500 516170
8	Integrated Pollution Prevention And Control Name: S Brannan & Sons Ltd Location: Leconfield Industrial Estate, CLEATOR MOOR, Cumbria, CA25 5QE Authority: Environment Agency, North West Region Permit Reference: LP3935LH Original Permit Ref: Bm4201ie Effective Date: 13th March 2006 Status: Surrender Effective Application Type: Surrender App. Sub Type: Whole Positional Accuracy: Automatically positioned to the address Activity Code: 4.2 A(1) (F) Activity Description: Inorganic Chemicals; Using Mercury/Cadmium And Compounds If Release Into Air Primary Activity: Y	A11NE (E)	0	2	301471 515538



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	Integrated Pollution Prevention And Control Name: S Brannan & Sons Ltd Location: Cleator Moor Thermometer Factory, Cleator Moor Thermometers, Leaconfield Industrial Estate, Cleator Moor, Cumbria, CA25 5QE Authority: Environment Agency, North West Region Permit Reference: Bm4201ie Original Permit Ref: Bm4201ie Effective Date: 22nd February 2005 Status: Superseded By Variation Application Type: Application App. Sub Type: New Positional Accuracy: Manually positioned to the address or location Activity Code: 4.2 A(1) (F) Activity Description: Inorganic Chemicals; Using Mercury/Cadmium And Compounds If Release Into Air Primary Activity: Y	A11NE (E)	0	2	301469 515526
9	Local Authority Pollution Prevention and Controls Name: Crossfield Garage Ltd Location: Leaconfield Street, Cleator Moor, Ca25 5qa Authority: Copeland Borough Council, Environmental Health Department Permit Reference: CBC/LAPPC/B/22 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station Status: Permitted Positional Accuracy: Manually positioned to the address or location	A11SE (S)	32	3	301368 515416
	Nearest Surface Water Feature	A12NW (NE)	19	-	301680 515685
10	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Petrol Note: Nor Beck Incident Date: 16th July 1991 Incident Reference: 91210057 Catchment Area: Ehen Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A11NE (NW)	0	2	301300 515600
11	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Rubble/Litter Or Solids Note: Nor Beck Incident Date: 22nd April 1993 Incident Reference: 93210028 Catchment Area: Ehen Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NW (NE)	39	2	301700 515700
12	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Unknown Note: Nor Beck Incident Date: 1st September 1993 Incident Reference: 93210093 Catchment Area: Ehen Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A11SW (SW)	276	2	301100 515300



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	Pollution Incidents to Controlled Waters Property Type: No Premises Identified Location: St Patrick Infant School, Cleato Authority: Environment Agency, North West Region Pollutant: Not Given Note: Not Supplied Incident Date: 3rd March 1999 Incident Reference: 124 Catchment Area: Ehen Receiving Water: Estuary Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Approximate location provided by supplier	A8NE (SE)	438	2	302001 515001
14	Pollution Incidents to Controlled Waters Property Type: Private Sewage: Sewage Works And Septic Tanks Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Unknown Sewage Note: Keele Incident Date: 18th February 1992 Incident Reference: 92210050 Catchment Area: Ehen Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A10NE (W)	472	2	300800 515700
15	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Inert Suspended Solids Note: Keele Incident Date: 20th September 1993 Incident Reference: 93210099 Catchment Area: Ehen Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A10NE (W)	568	2	300700 515700
16	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Waste Oil Note: Ehen Tributary Incident Date: 24th February 1994 Incident Reference: 94210023 Catchment Area: Ehen Receiving Water: Not Given Cause of Incident: Deliberate Disposal To Drain Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8NE (SE)	654	2	302200 514900
17	Pollution Incidents to Controlled Waters Property Type: Farm Drainage Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Agricultural: General Note: Keele Incident Date: 18th February 1992 Incident Reference: 92210048 Catchment Area: Ehen Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A10NW (W)	666	2	300600 515700
18	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Water Distribution System Location: Keele Ford, CLEATOR MOOR Authority: Environment Agency, North West Region Pollutant: Chlorinated Water Note: Burst Distribution Main; Chlorinated Water Incident Date: 22nd September 1997 Incident Reference: 97210079 Catchment Area: Ehen Receiving Water: Freshwater Stream/River Cause of Incident: In River Works Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A10SW (W)	827	2	300500 515200



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
19	Pollution Incidents to Controlled Waters Property Type: Private Sewage (Non-PLC): Foul Sewer Location: Todholes Road, CLEATOR MOOR Authority: Environment Agency, North West Region Pollutant: Sewage Debris/Litter Note: Sewer Blockage Discharging Incident Date: 24th November 1998 Incident Reference: NO980486 Catchment Area: Ehen Receiving Water: Freshwater Stream/River Cause of Incident: Blocked Sewer Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A4NE (SE)	943	2	302000 514400
20	Pollution Incidents to Controlled Waters Property Type: Farm Drainage Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Agricultural: General Note: Keele Incident Date: 18th February 1992 Incident Reference: 92210049 Catchment Area: Ehen Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A10NW (W)	961	2	300300 515700
21	Prosecutions Relating to Authorised Processes Location: Land At Threapthwaite Farm, Cleator Moor Prosecution Text: Soil, Timber And Plastic Waste Dumped On Land Without A Wml Prosecution Act: Epa90 S33(1)(A) & (6) Hearing Date: 16th October 2003 Verdict: Guilty Fine: 5000 Costs: 2337 Positional Accuracy: Manually positioned within the geographical locality	A16NW (NE)	593	2	301952 516195
	River Quality Name: Keele GQA Grade: River Quality B Reach: Dub Beck To Moor Row Estimated Distance (km): 3 Flow Rate: Flow less than 0.62 cumecs Flow Type: River Year: 2000	A10SE (W)	606	2	300650 515476
	Water Abstractions Operator: Westlakes Properties Ltd Licence Number: 2774002010 Permit Version: 2 Location: Spring Fed Catchpit @ Westlakes S&T Park, Moor Row Authority: Environment Agency, North West Region Abstraction: Research Non-University/College: Make-Up or Top Up Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Westlakes S&T Park, Moor Row, Cumbria Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 29th December 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A5SW (SW)	1653	2	299780 514790
	Water Abstractions Operator: Westlakes Properties Ltd Licence Number: 2774002010 Permit Version: 1 Location: Spring Fed Catchpit @ Westlakes S&T Park, Moor Row Authority: Environment Agency, North West Region Abstraction: Research Non-University/College: Make-Up or Top Up Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Westlakes S&T Park, Moor Row, Cumbria Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 29th December 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A5SW (SW)	1653	2	299780 514790



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Westlakes Properties Ltd Licence Number: 2774002010 Permit Version: 2 Location: Spring Fed Catchpit @ Westlakes S&T Park, Moor Row Authority: Environment Agency, North West Region Abstraction: Research Non-University/College: Make-Up or Top Up Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Westlakes S&T Park, Moor Row, Cumbria Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 29th December 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(W)	1803	2	299530 515020
	Water Abstractions Operator: Westlakes Properties Ltd Licence Number: 2774002010 Permit Version: 1 Location: Spring Fed Catchpit @ Westlakes S&T Park, Moor Row Authority: Environment Agency, North West Region Abstraction: Research Non-University/College: Make-Up or Top Up Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Westlakes S&T Park, Moor Row, Cumbria Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 29th December 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(W)	1803	2	299530 515020
22	Water Industry Act Referrals Name: S Brannan And Sons Ltd Location: S BRANNAN AND SONS LTD, CUMBERLAND THERMOMETER WORKS, CUMBERLAND THERMOMETER WORKS, CLEATOR MOOR, CUMBRIA, CA25 5QE Authority: Environment Agency, North West Region Permit Reference: BH8489 Dated: 3rd February 2000 Process Type: Permissions or amendments to discharge under the Water Industry Act 1991 Description: Processes which result in the discharge of Special Category effluents under The Trade Effluents (Prescribed Processes and Substances) Regulations Status: Application received by the EA but is not yet authorised Positional Accuracy: Automatically positioned to the address	A11NE (E)	0	2	301471 515537
22	Water Industry Act Referrals Name: S Brannan And Sons Ltd Location: S BRANNAN AND SONS LTD, CUMBERLAND THERMOMETER WORKS, CUMBERLAND THERMOMETER WORKS, CLEATOR MOOR, CUMBRIA, CA25 5QE Authority: Environment Agency, North West Region Permit Reference: BA0544 Dated: 30th October 1997 Process Type: Permissions or amendments to discharge under the Water Industry Act 1991 Description: Processes which result in the discharge of Special Category effluents under The Trade Effluents (Prescribed Processes and Substances) Regulations Status: Application received by the EA but is not yet authorised Positional Accuracy: Automatically positioned to the address	A11NE (E)	0	2	301471 515537
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - Low Vulnerability Combined Vulnerability: Low Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: <40% Superficial Patchiness: >90% Superficial Thickness: >10m Superficial Recharge: Low	A11NE (N)	0	4	301382 515509
	Groundwater Vulnerability - Soluble Rock Risk Classification: Significant Risk - Low Possibility	A11NE (N)	0	4	301382 515509



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A11NE (N)	0	4	301382 515509
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A11NE (N)	0	4	301382 515509
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11NE (W)	0	2	301316 515486
	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	A11NW (W)	0	2	301271 515532
	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	A11NW (W)	0	2	301268 515536
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11NE (NW)	0	2	301316 515619
	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	A11NW (W)	6	2	301272 515494
	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	A11SE (SW)	17	2	301307 515467
	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	A11NE (W)	18	2	301279 515490
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11NW (W)	19	2	301272 515494
	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	A11SE (SW)	24	2	301308 515466
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SE (SW)	36	2	301300 515457
	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	A11SE (SW)	39	2	301298 515455
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Undefined Events Boundary Accuracy: As Supplied	A11NW (NW)	72	2	301185 515591
	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	A11SW (W)	93	2	301185 515470
	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	A11NW (W)	102	2	301152 515587
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11NW (NW)	118	2	301144 515612



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	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	A11NW (W)	123	2	301132 515592
	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	A11SW (W)	128	2	301169 515434
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11NW (NW)	130	2	301140 515628
	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 Undefined Events Boundary Accuracy: As Supplied	A11NW (NW)	131	2	301139 515629
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Undefined Events Boundary Accuracy: As Supplied	A11NW (NW)	131	2	301138 515627
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Undefined Events Boundary Accuracy: As Supplied	A11NW (NW)	133	2	301138 515630
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SW (SW)	133	2	301201 515391
	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	A11NW (W)	136	2	301116 515534
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SW (SW)	141	2	301204 515393
	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	A11SW (SW)	143	2	301202 515391
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SW (W)	153	2	301151 515418
	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	A11SW (SW)	157	2	301153 515406
	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	A11NW (W)	203	2	301049 515580
	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	A11SW (W)	219	2	301050 515464
	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	A12NW (NE)	17	2	301671 515692
	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	A11NW (NW)	118	2	301144 515612



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11NW (W)	135	2	301120 515509
	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	A12NE (E)	201	2	302127 515672
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
23	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 751.5 Watercourse Level: Underground Permanent: True Watercourse Name: Nor Beck Catchment Name: Ehen-Calder Primacy: 1	A11NE (NW)	0	5	301353 515555
24	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 772.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Bowthorn Beck Catchment Name: Ehen-Calder Primacy: 1	A12NW (NE)	19	5	301679 515687
25	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 105.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nor Beck Catchment Name: Ehen-Calder Primacy: 1	A12NW (NE)	19	5	301680 515686
26	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 77.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nor Beck Catchment Name: Ehen-Calder Primacy: 1	A12NW (E)	27	5	301773 515657
27	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 170.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nor Beck Catchment Name: Ehen-Calder Primacy: 1	A12NW (E)	28	5	301844 515627
28	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 158.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nor Beck Catchment Name: Ehen-Calder Primacy: 1	A12NE (E)	35	5	302002 515562
29	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 185.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A11NW (W)	134	5	301124 515605



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
30	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 110.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A11NW (W)	144	5	301118 515615
31	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 102.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 2	A11NW (W)	144	5	301118 515615
32	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 573.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A12NE (NE)	163	5	302026 515796
33	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 44.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nor Beck Catchment Name: Ehen-Calder Primacy: 1	A12NE (E)	163	5	302088 515659
34	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.8 Watercourse Level: Underground Permanent: True Watercourse Name: Nor Beck Catchment Name: Ehen-Calder Primacy: 1	A12NE (E)	200	5	302127 515670
35	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 102.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A11SW (SW)	201	5	301137 515362
36	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 167.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nor Beck Catchment Name: Ehen-Calder Primacy: 1	A11SW (SW)	204	5	301137 515362
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 174.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A11NW (NW)	204	5	301115 515716
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 34.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nor Beck Catchment Name: Ehen-Calder Primacy: 1	A12NE (E)	207	5	302135 515672



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 29.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A11SW (W)	212	5	301067 515437
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 32.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A12NE (E)	238	5	302168 515680
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 116.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nor Beck Catchment Name: Ehen-Calder Primacy: 1	A12NE (E)	238	5	302168 515680
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 211.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nor Beck Catchment Name: Ehen-Calder Primacy: 1	A12NE (E)	301	5	302264 515629
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 492.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A12NE (E)	302	5	302264 515629
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 91.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A15SW (NW)	302	5	301171 515879
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A15SW (N)	356	5	301210 515961
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 283.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A15SW (N)	357	5	301210 515962
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 46.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nor Beck Catchment Name: Ehen-Calder Primacy: 1	A11SW (SW)	362	5	301084 515207



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
48	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 335.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nor Beck Catchment Name: Ehen-Calder Primacy: 1	A11SW (SW)	387	5	301038 515208
49	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A16SW (NE)	399	5	301882 516013
50	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A16SW (NE)	399	5	301890 516011
51	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 25.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A16SW (NE)	400	5	301894 516010
52	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 107.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A10SE (SW)	443	5	300882 515294
53	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 135.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A10SE (SW)	513	5	300852 515215
54	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 459.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Keekle Catchment Name: Ehen-Calder Primacy: 1	A10SE (W)	543	5	300718 515457
55	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 80.6 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A10NE (W)	561	5	300690 515579
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 127.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Keekle Catchment Name: Ehen-Calder Primacy: 1	A10NE (W)	561	5	300690 515579



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
57	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 149.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A15NW (N)	575	5	301240 516236
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 98.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A15NW (N)	597	5	301240 516236
59	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 452.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Keekle Catchment Name: Ehen-Calder Primacy: 1	A10NE (W)	604	5	300664 515701
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 340.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A10NE (W)	607	5	300660 515698
61	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 59.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A10NE (W)	641	5	300611 515587
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 221.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Keekle Catchment Name: Ehen-Calder Primacy: 1	A10SE (SW)	644	5	300728 515162
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 264.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nor Beck Catchment Name: Ehen-Calder Primacy: 1	A6NE (SW)	656	5	300862 515003
64	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 43.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Bowthorn Beck Catchment Name: Ehen-Calder Primacy: 1	A16NW (NE)	745	5	301768 516415
65	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 183.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A16NW (NE)	745	5	301768 516415



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
66	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 139.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A16NE (NE)	747	5	301979 516353
67	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 197.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A15NW (N)	770	5	301207 516407
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 150.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Bowthorn Beck Catchment Name: Ehen-Calder Primacy: 1	A16NW (N)	787	5	301771 516457
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.5 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A16NW (NE)	796	5	301950 516414
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 560.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A16NW (NE)	801	5	301946 516422
71	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 229.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Keekle Catchment Name: Ehen-Calder Primacy: 1	A6NE (SW)	803	5	300775 514885
72	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 108.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Keekle Catchment Name: Ehen-Calder Primacy: 1	A6NE (SW)	815	5	300676 514951
73	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A6NE (SW)	815	5	300637 515001
74	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 302.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A6NE (SW)	818	5	300632 515000



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
75	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 282.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A19SE (N)	835	5	301360 516510
76	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A6NE (SW)	838	5	300690 514911
77	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 72.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A6NE (SW)	843	5	300687 514906
78	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 121.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A3NE (S)	852	5	301418 514465
79	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 132.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Keekle Catchment Name: Ehen-Calder Primacy: 1	A6SE (SW)	884	5	300818 514757
80	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 139.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A16NE (NE)	897	5	302280 516386
81	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 55.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Bowthorn Beck Catchment Name: Ehen-Calder Primacy: 1	A20SW (N)	911	5	301771 516583
82	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 129.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A6NE (SW)	913	5	300623 514871
83	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 172.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Keekle Catchment Name: Ehen-Calder Primacy: 1	A14SW (NW)	919	5	300504 516096



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
84	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A14SW (NW)	919	5	300504 516096
85	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 698.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A14SW (NW)	927	5	300497 516100
86	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 79.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A19SW (N)	935	5	301085 516539
87	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 340.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A8SE (SE)	937	5	302271 514568
88	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 40.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A20SE (NE)	945	5	302067 516529
89	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 62.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A19SW (N)	962	5	300969 516519
90	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 378.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Bowthorn Beck Catchment Name: Ehen-Calder Primacy: 1	A20SW (N)	966	5	301779 516637
91	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A19SW (N)	967	5	301144 516593
92	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 160.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A19SW (N)	968	5	301146 516595



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
93	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 186.0 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A3NE (S)	971	5	301376 514353
94	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 68.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A20SE (NE)	976	5	302054 516568
95	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 42.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A20SE (NE)	976	5	302054 516568
96	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 32.2 Watercourse Level: Underground Permanent: True Watercourse Name: River Keekle Catchment Name: Ehen-Calder Primacy: 1	A6SE (SW)	983	5	300836 514627
97	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 28.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A18SE (NW)	996	5	300903 516522



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
98	BGS Recorded Landfill Sites Site Name: Crossfield Tip Location: Crossfield Moor, CLEATOR MOOR, Cumberland Authority: British Geological Survey, National Geoscience Information Service Ground Water: Information not available Surface Water: Information not available Geology: N/A Positional Accuracy: Positioned by the supplier Boundary Accuracy: Moderate	A7SW (S)	959	-	300988 514563
99	Historical Landfill Sites Licence Holder: Not Supplied Location: Whitehaven Road, Cleator Moor Name: St Begas Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD35312 First Input Date: Not Supplied Last Input Date: 13th April 1979 Specified Waste Type: Deposited Waste included Inert Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: Not Supplied	A11NW (W)	104	2	301148 515578
100	Historical Landfill Sites Licence Holder: Newdale Construction Limited Location: Whinney Hill, Cleator Moor, Cumbria Name: Railway Cuttings Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD07946 First Input Date: 31st December 1979 Last Input Date: 30th September 1985 Specified Waste Type: Deposited Waste included Inert Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 0900/0174 BGS Ref: Not Supplied Other Ref: 58	A10NE (W)	352	2	300900 515537
101	Historical Landfill Sites Licence Holder: Cumbria County Council Location: Crossfields Road, Cleator Moor, Cumbria Name: Montreal Mine Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD07848 First Input Date: 31st December 1977 Last Input Date: Not Supplied Specified Waste Type: Deposited Waste included Industrial, Commercial and Household Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 0900/0178 BGS Ref: Not Supplied Other Ref: E108.58, R19, E160.77	A7NW (S)	625	2	301189 514821
102	Historical Landfill Sites Licence Holder: R and B Milburn Location: Keeke, Cleator Moor, Cumbria Name: Galemire Farm Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD07763 First Input Date: 31st December 1948 Last Input Date: 31st December 1984 Specified Waste Type: Deposited Waste included Inert and Industrial Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 0900/0035 BGS Ref: Not Supplied Other Ref: 87	A10NW (W)	945	2	300308 515609



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
103	Historical Landfill Sites Licence Holder: Not Supplied Location: Crossfield Moor, Cleator Moor, Cumberland Name: Crossfield Tip Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD32003 First Input Date: 22nd December 1970 Last Input Date: Not Supplied Specified Waste: Deposited Waste included Commercial Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: 2480 Other Ref: Not Supplied	A7SW (S)	958	2	300989 514563
104	Licensed Waste Management Facilities (Locations) Licence Number: 403709 Location: Unit 12, Cleator Moor, Cumbria, CA25 5QB Operator Name: Whitehaven Skips & Services Ltd Operator Location: Not Supplied Authority: Environment Agency - North West Region, North Area Site Category: HCI Waste Transfer Station Licence Status: Issued Issued: 18th July 2017 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12NW (E)	0	2	301760 515511
	Local Authority Landfill Coverage Name: Copeland Borough Council - Has supplied landfill data		0	3	301382 515509
	Local Authority Landfill Coverage Name: Cumbria County Council - Had landfill data but passed it to the relevant environment agency		0	6	301382 515509
105	Local Authority Recorded Landfill Sites Location: Galemire Farm, Keekle Reference: 87 Authority: Copeland Borough Council, Environmental Health Department Last Reported Status: Unknown Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Good	A10NW (W)	939	3	300313 515601
106	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A11SE (SE)	28	-	301441 515391
107	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1972	A11SE (SE)	37	-	301540 515185
108	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A12SW (SE)	78	-	301783 515300
109	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A12SW (SE)	79	-	301741 515250
110	Potentially Infilled Land (Non-Water) Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A11SW (W)	214	-	301062 515441
111	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A8NW (SE)	270	-	301812 515055



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
112	Potentially Infilled Land (Non-Water) Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A12SE (E)	301	-	302268 515451
113	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1972	A7NE (S)	360	-	301591 514928
114	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1972	A8NW (SE)	415	-	301952 514982
115	Potentially Infilled Land (Non-Water) Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A15SW (NW)	444	-	300950 515891
116	Potentially Infilled Land (Non-Water) Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A10NE (W)	471	-	300788 515647
117	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1972	A8SW (S)	627	-	301721 514656
118	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1972	A7SE (S)	661	-	301475 514647
119	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A16SE (NE)	667	-	302249 516150
120	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A16NW (NE)	733	-	301794 516397
121	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1972	A7SE (S)	740	-	301391 514592
122	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1972	A7SE (S)	758	-	301557 514514
123	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1972	A7SE (S)	787	-	301434 514528
124	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1972	A7SW (S)	903	-	301143 514542
125	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1972	A3NE (S)	919	-	301420 514394
126	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1972	A7SW (S)	931	-	301006 514584
127	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1972	A7SW (S)	937	-	301051 514557



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
128	Potentially Infilled Land (Non-Water) Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A10NW (W)	939	-	300313 515608
129	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1972	A3NE (S)	958	-	301297 514392
130	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1957	A12SW (E)	0	-	301736 515412
131	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A11NE (N)	0	-	301386 515562
132	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1867	A11SE (SE)	0	-	301504 515443
133	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1867	A11NE (NE)	0	-	301532 515647
134	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1867	A11NW (W)	10	-	301269 515507
135	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1957	A12SW (E)	24	-	301769 515374
136	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1957	A12SW (E)	28	-	301759 515354
137	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1957	A12SW (E)	29	-	301768 515361
138	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A11NW (NW)	268	-	301136 515815
139	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1957	A12SE (E)	290	-	302236 515398
140	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1900	A8SE (SE)	936	-	302246 514548
141	Registered Landfill Sites Licence Holder: Newdale Construction Ltd Licence Reference: 58/M3 Site Location: Railway Cutting, Whinney Hill, Cleator Moor, Cleator, Cumbria Licence Easting: Not Supplied Licence Northing: Not Supplied Operator Location: 55 Washington Street, Workington, Cumbria Authority: Environment Agency - North West Region, North Area Site Category: Landfill - Railway cutting Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st February 1979 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Positioned by the supplier Boundary Accuracy: Moderate Authorised Waste: Constr'N/Demol. Inert/Non-Haz/Non-Tox Excavated Natural Materials \$ Hard Bonded Asbestos Hardcore And Rubble	A10NE (W)	370	2	300882 515534



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
142	Registered Landfill Sites Licence Holder: Cumbria County Contracting Licence Reference: R46 Site Location: Montreal (2), Cleator Moor, Cleator, Cumbria Licence Easting: 301200 Licence Northing: 514700 Operator Location: Barras Lane, DALSTON, Cumbria, CA5 7ND Authority: Environment Agency - North West Region, North Area Site Category: Landfill Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st May 1979 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Certain Notifiable Wastes House, Com + Ind.Waste	A7SW (S)	743	2	301200 514700
142	Registered Landfill Sites Licence Holder: Cumbria County Contracting Licence Reference: R19 Site Location: Montreal Mine (1), Cleator Moor, Cleator, Cumbria Licence Easting: 301200 Licence Northing: 514700 Operator Location: Barras Lane, DALSTON, Cumbria, CA5 7ND Authority: Environment Agency - North West Region, North Area Site Category: Landfill Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st June 1977 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Household + Commercial Waste	A7SW (S)	743	2	301200 514700
143	Registered Landfill Sites Licence Holder: R & B Milburn Licence Reference: 87/M1 Site Location: Galemire Farm, Keekle, Cleator Moor, Cleator, Cumbria Licence Easting: Not Supplied Licence Northing: Not Supplied Operator Location: 14 Loop Road South, Whitehaven, Cumbria Authority: Environment Agency - North West Region, North Area Site Category: Landfill Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Licence revokedRevoked Dated: 17th May 1982 Preceded By: Not Given Licence: Superseded By: 108/M1 Licence: Positional Accuracy: Positioned by the supplier Boundary Accuracy: Moderate Authorised Waste: Controlled Wastes Hardcore And Rubble	A10NW (W)	942	2	300310 515611



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Warwickshire Group	A11NE (N)	0	1	301427 515634
	BGS 1:625,000 Solid Geology Description: Dinantian Rocks (Undifferentiated)	A12SW (E)	0	1	301718 515404
	BGS 1:625,000 Solid Geology Description: Warwickshire Group	A11NW (W)	0	1	301261 515523
	BGS 1:625,000 Solid Geology Description: Yoredale Group	A11NE (N)	0	1	301382 515509
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A11NE (N)	0	1	301382 515509
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A11NE (N)	0	1	301430 515640
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12NW (E)	0	1	301798 515514
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12SW (E)	0	1	301725 515470
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A11NE (N)	31	1	301382 515692



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12NE (E)	38	1	302000 515499
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12SE (E)	39	1	301980 515444
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12SW (E)	42	1	301779 515358
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12SE (E)	99	1	302000 515434
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12SE (E)	156	1	302000 515375
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A11SW (W)	192	1	301111 515404



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8NW (SE)	259	1	301821 515075
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12NE (E)	290	1	302250 515633
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A7NE (S)	370	1	301458 514946
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8NE (SE)	378	1	302000 515091
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8NE (SE)	385	1	302167 515073
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8NE (SE)	393	1	302022 515093



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8NE (SE)	438	1	301957 514956
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8NE (SE)	454	1	302000 514976
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A15SW (NW)	498	1	301000 516000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A15NE (N)	512	1	301400 516189
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8SE (SE)	734	1	302177 514756
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8SW (S)	763	1	301681 514516



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A7SE (S)	780	1	301500 514500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: <15 mg/kg Concentration:	A10NW (W)	875	1	300377 515516
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A7SW (SW)	897	1	301002 514626
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A7SW (S)	958	1	301013 514551
144	BGS Recorded Mineral Sites Site Name: Whinny Hill Colliery, No 2 Pit Location: Keeble, Whitehaven, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 147954 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A11SW (W)	245	1	301020 515477
144	BGS Recorded Mineral Sites Site Name: Whinny Hill Colliery, Staple Pit Location: Keeble, Whitehaven, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 147955 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A11SW (W)	269	1	301005 515440



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
145	BGS Recorded Mineral Sites Site Name: Cleator Moor Iron Ore Mine Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140672 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Not Available Geology: ! Commodity: Iron ore - Hematite Positional Accuracy: Located by supplier to within 10m	A7NE (S)	292	1	301537 515017
146	BGS Recorded Mineral Sites Site Name: Crossfield Iron Ore Mine Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140673 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Not Available Geology: ! Commodity: Iron ore - Hematite Positional Accuracy: Located by supplier to within 10m	A7NE (S)	344	1	301553 514955
147	BGS Recorded Mineral Sites Site Name: Whinny Hill Colliery, Dean'S Pit Location: Keeble, Whitehaven, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 147956 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Bannock Coal (Cumbria) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A10SE (SW)	425	1	300920 515270
148	BGS Recorded Mineral Sites Site Name: Hope Pit Location: Keeble, Whitehaven, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 147952 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Main Coal (Cumbria) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	449	1	301090 515100
149	BGS Recorded Mineral Sites Site Name: Whinny Hill Colliery, No 1 Pit Location: Keeble, Whitehaven, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 147957 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A11SW (SW)	449	1	300940 515210
150	BGS Recorded Mineral Sites Site Name: Henry Pit Location: Keeble, Whitehaven, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 147951 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14SE (NW)	458	1	300930 515890



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
151	BGS Recorded Mineral Sites Site Name: Todholes Quarries Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140645 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Frizington Limestone Formation Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	A8NE (SE)	529	1	301972 514851
152	BGS Recorded Mineral Sites Site Name: Whinny Hill Colliery Location: Keeble, Whitehaven, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 147953 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A10NE (W)	537	1	300721 515644
153	BGS Recorded Mineral Sites Site Name: Todholes Quarries Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140646 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Frizington Limestone Formation Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	A8SE (SE)	608	1	301983 514763
154	BGS Recorded Mineral Sites Site Name: Jacktrees Pit Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140674 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Not Available Geology: ! Commodity: Iron ore - Hematite Positional Accuracy: Located by supplier to within 10m	A8SW (SE)	693	1	301779 514597
155	BGS Recorded Mineral Sites Site Name: Montreal Iron Ore Mine Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140681 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Not Available Geology: ! Commodity: Iron ore - Hematite Positional Accuracy: Located by supplier to within 10m	A7SE (S)	715	1	301317 514655
156	BGS Recorded Mineral Sites Site Name: Bowthorn Colliery Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140715 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A15NE (N)	715	1	301324 516381



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
157	BGS Recorded Mineral Sites Site Name: Todholes Quarries Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140647 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Frizington Limestone Formation Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	A8SE (SE)	733	1	302022 514641
158	BGS Recorded Mineral Sites Site Name: Mill Hill Pit Location: Keeble, Whitehaven, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 147950 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Bannock Coal (Cumbria) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A10NW (W)	764	1	300490 515496
159	BGS Recorded Mineral Sites Site Name: Montreal Iron Ore Mine Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140677 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Not Available Geology: ! Commodity: Iron ore - Hematite Positional Accuracy: Located by supplier to within 10m	A7SW (SW)	766	1	301013 514770
160	BGS Recorded Mineral Sites Site Name: Montreal Iron Ore Mine Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140676 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Not Available Geology: ! Commodity: Iron ore - Hematite Positional Accuracy: Located by supplier to within 10m	A7SE (S)	777	1	301439 514536
161	BGS Recorded Mineral Sites Site Name: Cleator Moor Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140675 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Not Available Geology: ! Commodity: Iron ore - Hematite Positional Accuracy: Located by supplier to within 10m	A4NE (SE)	912	1	301964 514419
162	BGS Recorded Mineral Sites Site Name: Montreal Iron Ore Mine Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140679 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Not Available Geology: ! Commodity: Iron ore - Hematite Positional Accuracy: Located by supplier to within 10m	A3NE (S)	965	1	301366 514362



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
163	BGS Recorded Mineral Sites Site Name: Montreal Iron Ore Mine Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140682 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Not Available Geology: ! Commodity: Iron ore - Hematite Positional Accuracy: Located by supplier to within 10m	A7SW (SW)	970	1	300943 514575
164	BGS Recorded Mineral Sites Site Name: Montreal Iron Ore Mine Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140678 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Not Available Geology: ! Commodity: Iron ore - Hematite Positional Accuracy: Located by supplier to within 10m	A7SW (S)	981	1	301079 514492
165	BGS Recorded Mineral Sites Site Name: Galemire Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140656 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Triassic Geology: St Bees Sandstone Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A10NW (W)	984	1	300269 515615
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A11NE (N)	0	7	301382 515509
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A11NE (N)	0	-	301382 515509
	Mining Instability Mining Evidence: Conclusive Iron Ore Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A11NE (E)	0	-	301500 515500
	Mining Instability Mining Evidence: Conclusive Iron Ore Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A11NE (N)	0	-	301382 515509
	Man-Made Mining Cavities Easting: 301500 Northing: 515300 Distance: 78 Quadrant Reference: A11 Quadrant Reference: SE Bearing Ref: SE Cavity Type: Not supplied Commodity: Hematite Solid Geology Detail: No Details Superficial Geology: No Details Detail:	A11SE (SE)	78	8	301500 515300



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Man-Made Mining Cavities Easting: 301800 Northing: 515300 Distance: 91 Quadrant Reference: A12 Quadrant Reference: SW Bearing Ref: SE Cavity Type: Not supplied Commodity: Hematite Solid Geology Detail: No Details Superficial Geology No Details Detail:	A12SW (SE)	91	8	301800 515300
	Man-Made Mining Cavities Easting: 301600 Northing: 515000 Distance: 287 Quadrant Reference: A7 Quadrant Reference: NE Bearing Ref: SE Cavity Type: Not supplied Commodity: Hematite Solid Geology Detail: No Details Superficial Geology No Details Detail:	A7NE (SE)	287	8	301600 515000
	Man-Made Mining Cavities Easting: 301500 Northing: 515000 Distance: 324 Quadrant Reference: A7 Quadrant Reference: NE Bearing Ref: S Cavity Type: Not supplied Commodity: Hematite Solid Geology Detail: No Details Superficial Geology No Details Detail:	A7NE (S)	324	8	301500 515000
	Man-Made Mining Cavities Easting: 301400 Northing: 514900 Distance: 463 Quadrant Reference: A7 Quadrant Reference: NE Bearing Ref: S Cavity Type: Not supplied Commodity: Hematite Solid Geology Detail: No Details Superficial Geology No Details Detail:	A7NE (S)	463	8	301400 514900
	Man-Made Mining Cavities Easting: 301700 Northing: 514600 Distance: 681 Quadrant Reference: A8 Quadrant Reference: SW Bearing Ref: S Cavity Type: Not supplied Commodity: Hematite Solid Geology Detail: No Details Superficial Geology No Details Detail:	A8SW (S)	681	8	301700 514600
	Man-Made Mining Cavities Easting: 301500 Northing: 514500 Distance: 797 Quadrant Reference: A7 Quadrant Reference: SE Bearing Ref: S Cavity Type: Not supplied Commodity: Hematite Solid Geology Detail: No Details Superficial Geology No Details Detail:	A7SE (S)	797	8	301500 514500



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Man-Made Mining Cavities Easting: 301200 Northing: 514600 Distance: 823 Quadrant Reference: A7 Quadrant Reference: SW Bearing Ref: S Cavity Type: Not supplied Commodity: Hematite Solid Geology Detail: No Details Superficial Geology: No Details Detail:	A7SW (S)	823	8	301200 514600
	Non Coal Mining Areas of Great Britain Risk: Likely Source: British Geological Survey, National Geoscience Information Service	A12NW (E)	0	1	301718 515541
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A12NW (E)	0	1	301700 515509
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A11NE (N)	0	1	301382 515509
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A11SE (S)	0	1	301389 515472
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A11NE (N)	0	1	301408 515593
	Non Coal Mining Areas of Great Britain Risk: Likely Source: British Geological Survey, National Geoscience Information Service	A12NW (E)	0	1	301700 515509
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A12NW (E)	0	1	301729 515502
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A12SE (E)	31	1	301983 515453
	Non Coal Mining Areas of Great Britain Risk: Likely Source: British Geological Survey, National Geoscience Information Service	A12SW (E)	48	1	301929 515464
	Non Coal Mining Areas of Great Britain Risk: Highly Likely Source: British Geological Survey, National Geoscience Information Service	A11SE (SW)	139	1	301287 515333
	Non Coal Mining Areas of Great Britain Risk: Likely Source: British Geological Survey, National Geoscience Information Service	A12SE (E)	203	1	302145 515373
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A12NE (E)	243	1	302090 515756
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NE (N)	0	1	301382 515509
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A12NW (NE)	21	1	301657 515718
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SW (SW)	95	1	301234 515428
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11NW (NW)	219	1	301148 515764
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SE (SW)	0	1	301355 515465



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NE (N)	0	1	301382 515509
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A12NW (NE)	21	1	301657 515718
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A11SW (SW)	95	1	301234 515428
	Potential for Compressible Ground Stability Hazards Hazard Potential: High Source: British Geological Survey, National Geoscience Information Service	A11NW (NW)	219	1	301148 515764
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A12SW (E)	0	1	301725 515470
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A12NW (E)	0	1	301798 515514
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A12NW (E)	0	1	301730 515511
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11NE (N)	0	1	301382 515509
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A12SW (E)	42	1	301779 515358
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NE (N)	0	1	301382 515509
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NE (N)	0	1	301382 515509
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A12NW (NE)	21	1	301657 515718
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A12SW (E)	42	1	301779 515358
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11SW (SW)	95	1	301234 515428
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NE (N)	0	1	301382 515509
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A12SW (E)	42	1	301779 515358
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11NW (NW)	219	1	301148 515764
	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	A11NE (N)	0	1	301382 515509
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Higher probability radon area (10 to 30% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A12NW (E)	0	1	301651 515509
	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	A11NE (N)	0	1	301382 515509



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Radon Potential - Radon Protection Measures Protection Measure: Full radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A12NW (E)	0	1	301651 515509



Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
166	Contemporary Trade Directory Entries Name: Spencer Associates International Location: Unit 11, Leconfield Ind Est, Cleator Moor, Cumbria, CA25 5QB Classification: Precision Engineers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A12NW (E)	0	-	301842 515533
167	Contemporary Trade Directory Entries Name: Delkia Location: Unit 18, Leconfield Industrial Estate, Cleator Moor, CA25 5QB Classification: Electrical Engineers Status: Active Positional Accuracy: Automatically positioned to the address	A12NW (E)	0	-	301652 515583
167	Contemporary Trade Directory Entries Name: Cumbria Fabrications Location: 8 Leconfield Ind Est, Cleator Moor, Cumbria, CA25 5QB Classification: Metal Products - Fabricated Status: Inactive Positional Accuracy: Manually positioned to the address or location	A12NW (E)	0	-	301685 515596
168	Contemporary Trade Directory Entries Name: Alan Dick Engineering Ltd Location: Leconfield Industrial Estate, Cleator Moor, Cumbria, CA25 5QB Classification: Engineers - General Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (NE)	0	-	301634 515634
168	Contemporary Trade Directory Entries Name: Mothersill Engineering Location: Leconfield Industrial Estate, Cleator Moor, Cumbria, CA25 5QB Classification: Engineers - General Status: Inactive Positional Accuracy: Automatically positioned to the address	A11NE (NE)	0	-	301615 515656
168	Contemporary Trade Directory Entries Name: Travis Perkins Plc Location: Leconfield Industrial Estate, Cleator Moor, Cumbria, CA25 5QB Classification: Builders' Merchants Status: Active Positional Accuracy: Manually positioned within the geographical locality	A12NW (E)	0	-	301651 515587
169	Contemporary Trade Directory Entries Name: Capalex Location: Leconfield Industrial Estate, Cleator Moor, Cumbria, CA25 5QB Classification: Aluminium Fabricators Status: Inactive Positional Accuracy: Automatically positioned to the address	A11SE (SE)	0	-	301549 515438
170	Contemporary Trade Directory Entries Name: Brannan Location: Leconfield Industrial Estate, Cleator Moor, Cumbria, CA25 5QE Classification: Thermometers & Thermostats Status: Active Positional Accuracy: Automatically positioned to the address	A11NE (E)	0	-	301471 515538
171	Contemporary Trade Directory Entries Name: Bespoke Backdrops Location: Unit 15f Leconfield Industrial Estate, Cleator Moor, Cumbria, CA25 5QB Classification: Photographic Equipment & Supplies - Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A11NE (NE)	0	-	301576 515616
171	Contemporary Trade Directory Entries Name: Solway Engineering Location: Unit C15, Leconfield Ind Est, Cleator Moor, Cumbria, CA25 5QB Classification: Engineers - General Status: Inactive Positional Accuracy: Manually positioned to the address or location	A11NE (NE)	0	-	301560 515636
172	Contemporary Trade Directory Entries Name: Opton (Uk) Ltd Location: Leconfield Indust Est, Cleator Moor, Cumbria, CA25 5QB Classification: Fasteners & Fixing Devices Status: Inactive Positional Accuracy: Manually positioned to the address or location	A11NE (NW)	0	-	301354 515550
173	Contemporary Trade Directory Entries Name: Klm Location: Unit 16, Leconfield Ind Est, Cleator Moor, Cumbria, CA25 5QB Classification: Garden Ornament Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A12NW (E)	0	-	301738 515612



Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
174	Contemporary Trade Directory Entries Name: C B Autos Location: Unit 20B Leconfield Ind Est, Cleator Moor, Cumbria, CA25 5QB Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Manually positioned to the address or location	A12NW (E)	0	-	301798 515560
174	Contemporary Trade Directory Entries Name: Sneckyeat Garage Location: Unit 20B Leconfield Ind Est, Cleator Moor, Cumbria, CA25 5QB Classification: Garage Services Status: Inactive Positional Accuracy: Manually positioned to the address or location	A12NW (E)	0	-	301798 515560
175	Contemporary Trade Directory Entries Name: Remploy Ltd Location: Leconfield Industrial Estate, Cleator Moor, Cumbria, CA25 5QB Classification: Filter Manufacturers & Suppliers Status: Inactive Positional Accuracy: Automatically positioned to the address	A11NE (SE)	0	-	301391 515499
176	Contemporary Trade Directory Entries Name: Multi Choice Cash Carry Location: Leconfield St, Cleator Moor, Cumbria, CA25 5QA Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A11SE (SE)	18	-	301473 515391
177	Contemporary Trade Directory Entries Name: Crossfield Garage Location: Leconfield Street, Cleator Moor, Cumbria, CA25 5QA Classification: Petrol Filling Stations Status: Active Positional Accuracy: Automatically positioned to the address	A11SE (S)	32	-	301368 515416
178	Contemporary Trade Directory Entries Name: Station Yard Garage Location: Station Yard, High Street, Cleator Moor, Cumbria, CA25 5AA Classification: Car Body Repairs Status: Active Positional Accuracy: Automatically positioned to the address	A12SW (SE)	95	-	301747 515232
178	Contemporary Trade Directory Entries Name: S A Miller Location: Station Yard, High Street, Cleator Moor, Cumbria, CA25 5AA Classification: Car Body Repairs Status: Active Positional Accuracy: Automatically positioned to the address	A12SW (SE)	95	-	301747 515232
178	Contemporary Trade Directory Entries Name: Millers Garage Location: Station Yard, High Street, Cleator Moor, CA25 5AA Classification: Car Body Repairs Status: Active Positional Accuracy: Automatically positioned to the address	A12SW (SE)	97	-	301747 515230
179	Contemporary Trade Directory Entries Name: David Shepherd Location: Crossfield Rd, Cleator Moor, Cumbria, CA25 5BY Classification: Road Haulage Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A11SE (S)	167	-	301456 515222
180	Contemporary Trade Directory Entries Name: Brush Strokes Location: A, 75, High Street, Cleator Moor, Cumbria, CA25 5BL Classification: Wallpapers & Wall Coverings Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (SE)	222	-	301848 515154
180	Contemporary Trade Directory Entries Name: Adair Hardware Location: 77, High Street, Cleator Moor, Cumbria, CA25 5BL Classification: Hardware Status: Inactive Positional Accuracy: Manually positioned to the address or location	A12SW (SE)	234	-	301859 515148
181	Contemporary Trade Directory Entries Name: Mossop Construction Services Location: Crossfield Road, Cleator Moor, Cumbria, CA25 5BY Classification: Road Haulage Services Status: Active Positional Accuracy: Manually positioned within the geographical locality	A11SE (S)	249	-	301418 515149



Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
182	Contemporary Trade Directory Entries Name: Fellview Garden Ornaments Location: Birks Rd, Cleator Moor, Cumbria, CA25 5HU Classification: Garden Ornament Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A12NE (E)	274	-	302252 515525
183	Contemporary Trade Directory Entries Name: North Press Location: 3-5, Jacktrees Road, Cleator Moor, CA25 5BD Classification: Printers Status: Active Positional Accuracy: Automatically positioned to the address	A8NW (SE)	321	-	301899 515063
184	Contemporary Trade Directory Entries Name: P Whelan & Son Location: Kerlin, Whitehaven Road, Cleator Moor, Cumbria, CA25 5QW Classification: Coal & Smokeless Fuel Merchants & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address	A11NW (NW)	363	-	300954 515771
185	Contemporary Trade Directory Entries Name: Lushes Lakeland Sausage Location: Phoenix Ct, The Sq, Cleator Moor, Cumbria, CA25 5PT Classification: Sausage Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A8NW (SE)	421	-	301940 514964
185	Contemporary Trade Directory Entries Name: S A W H Electronics Location: Unit 2, Cleator Moor Business Centre, Phoenix Court, The Square, Cleator Moor, CA25 5PT Classification: Domestic Appliances - Servicing, Repairs & Parts Status: Active Positional Accuracy: Automatically positioned to the address	A8NW (SE)	447	-	301948 514935
185	Contemporary Trade Directory Entries Name: Willi Nilli Location: Unit 4, Cleator Moor Business Centre, Phoenix Court, The Square, Cleator Moor, Cumbria, CA25 5PT Classification: T-Shirts Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (SE)	447	-	301949 514936
186	Contemporary Trade Directory Entries Name: Adairs Autos Location: Earl Street, Cleator Moor, Cumbria, CA25 5AU Classification: Garage Services Status: Active Positional Accuracy: Manually positioned within the geographical locality	A8NW (SE)	423	-	301855 514903
186	Contemporary Trade Directory Entries Name: H J Timmins Location: Earl Street, Cleator Moor, Cumbria, CA25 5AU Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (SE)	426	-	301905 514930
186	Contemporary Trade Directory Entries Name: Earl Street Mobility Location: Earl House, Earl Street, Cleator Moor, Cumbria, CA25 5AU Classification: Disability Equipment - Manufacturers & Suppliers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (SE)	447	-	301883 514891
187	Contemporary Trade Directory Entries Name: Cleator Moor Auto & Body Repairs Location: Wyndham Street, Cleator Moor, CA25 5AN Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (SE)	473	-	302105 515071
188	Contemporary Trade Directory Entries Name: Bethwaites Printers Location: 14, Ennerdale Road, Cleator Moor, Cumbria, CA25 5LD Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (SE)	553	-	302146 514993



Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
189	Contemporary Trade Directory Entries Name: E C & J A Cook Location: Aldby Garage, Aldby Lane, Cleator Moor, Cumbria, CA25 5DH Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (SE)	662	-	302261 514933
190	Contemporary Trade Directory Entries Name: D C Cleaning & Property Maintenance Location: Unit 8 Phoenix Court, Cleator Moor Business Centre, Cleator Moor, Cumbria, CA25 5PE Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A8SE (SE)	698	-	302112 514746
191	Fuel Station Entries Name: Crossfield Garage Location: Leconfield Street , Cleator Moor, Cumbria, CA25 5QA Brand: Nisa Premises Type: Petrol Station Status: Open Positional Accuracy: Automatically positioned to the address	A11SE (S)	32	-	301368 515416
192	Points of Interest - Commercial Services Name: Car Wash Location: Leconfield Street, Cleator Moor, CA25 5QA Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A11SE (S)	32	9	301368 515416
192	Points of Interest - Commercial Services Name: Crossfield Garage Location: Leconfield Street, Cleator Moor, Cumbria, CA25 5QA Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A11SE (S)	33	9	301368 515415
193	Points of Interest - Commercial Services Name: Station Yard Garage Location: Station Yard, High Street, Cleator Moor, CA25 5AA Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12SW (SE)	95	9	301746 515231
193	Points of Interest - Commercial Services Name: S A Miller Location: Station Yard, High Street, Cleator Moor, CA25 5AA Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12SW (SE)	95	9	301746 515231
193	Points of Interest - Commercial Services Name: S A Miller Location: Station Yard, High Street, Cleator Moor, CA25 5AA Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12SW (SE)	95	9	301747 515232
193	Points of Interest - Commercial Services Name: Millers Garage Location: Station Yard, High Street, Cleator Moor, CA25 5AA Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12SW (SE)	97	9	301747 515229
194	Points of Interest - Commercial Services Name: David Shepherd Location: Crossfield Garage, Crossfield Road, Cleator Moor, CA25 5BY Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A11SE (S)	151	9	301498 515219
194	Points of Interest - Commercial Services Name: Mossop Construction Services Location: Crossfield Garage, Crossfield Road, Cleator Moor, CA25 5BY Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A11SE (S)	152	9	301498 515218



Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
195	Points of Interest - Commercial Services Name: H J Timmins Location: Earl Street, Cleator Moor, CA25 5AU Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8NW (SE)	426	9	301905 514930
195	Points of Interest - Commercial Services Name: H J Timmins Motor Engineers Location: Earl Street, Cleator Moor, CA25 5AU Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8NW (SE)	426	9	301905 514930
196	Points of Interest - Commercial Services Name: Cleator Moor Auto & Body Repairs Location: Wyndham Street, Cleator Moor, CA25 5AN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8NE (SE)	466	9	302101 515077
196	Points of Interest - Commercial Services Name: Cleator Moor Auto Bodies Location: 9 Ennerdale Road, Cleator Moor, CA25 5LD Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8NE (SE)	532	9	302129 515005
197	Points of Interest - Commercial Services Name: E C & J A Cook Location: Aldby Garage, Aldby Lane, Cleator Moor, CA25 5DH Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A8NE (SE)	662	9	302261 514933
197	Points of Interest - Commercial Services Name: E C & J A Cook Location: Aldby Garage, Aldby Lane, Cleator Moor, CA25 5DH Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A8NE (SE)	662	9	302261 514933
198	Points of Interest - Manufacturing and Production Name: Phoenix Enterprise Centre Location: 3-5 Jacktrees Road, Cleator Moor, CA25 5BD Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to address or location	A8NW (SE)	322	9	301900 515062
199	Points of Interest - Manufacturing and Production Name: The Cleator Moor Business Centre Location: Cleator Moor Business Centre Phoenix Court, The Square, Cleator Moor, CA25 5PT Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to address or location	A8NW (SE)	421	9	301941 514964
199	Points of Interest - Manufacturing and Production Name: Moor Business Centre Location: CA25 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A8NW (SE)	428	9	301927 514944
200	Points of Interest - Manufacturing and Production Name: Mine (Disused) Location: CA25 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A15SW (NW)	591	9	301079 516157
201	Points of Interest - Manufacturing and Production Name: Tank Location: CA25 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A16NW (NE)	624	9	301944 516232
202	Points of Interest - Manufacturing and Production Name: Mine (Disused) Location: CA25 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A15NW (N)	679	9	301264 516329



Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
203	Points of Interest - Manufacturing and Production Name: Shaft (Disused) Location: CA25 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A7SE (S)	820	9	301344 514525
204	Points of Interest - Manufacturing and Production Name: Bowness Location: Galemire Farm, Galemire, Cleator Moor, CA25 5QU Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A10NW (W)	903	9	300352 515647
205	Points of Interest - Public Infrastructure Name: Crossfield Garage Ltd Location: Leconfield Street, Cleator Moor, CA25 5QA Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A11SE (S)	32	9	301368 515416
205	Points of Interest - Public Infrastructure Name: Crossfield Garage Location: Leconfield Street, Cleator Moor, CA25 5QA Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A11SE (S)	32	9	301368 515416
205	Points of Interest - Public Infrastructure Name: Crossfield Garage Location: Leconfield Street, Cleator Moor, Cumbria, CA25 5BY Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A11SE (S)	33	9	301368 515415
205	Points of Interest - Public Infrastructure Name: Crossfield Garage Location: Leconfield Street, Cleator Moor, CA25 5QA Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A11SE (S)	33	9	301368 515415
206	Points of Interest - Public Infrastructure Name: Graveyard Location: Not Supplied Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A11SE (S)	268	9	301299 515180
206	Points of Interest - Public Infrastructure Name: Graveyard Location: CA25 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A11SE (S)	270	9	301300 515177
207	Points of Interest - Public Infrastructure Name: Cleator Moor Police Station Location: Police Station, High Street, Cleator Moor, CA25 5LB Category: Central and Local Government Class Code: Police Stations Positional Accuracy: Positioned to address or location	A8NE (SE)	464	9	302078 515050
208	Points of Interest - Recreational and Environmental Name: Playground Location: Jacktrees Road, CA25 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A8NW (SE)	345	9	301801 514964
208	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A8NW (SE)	357	9	301790 514947
209	Points of Interest - Recreational and Environmental Name: Adventure Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A4NE (SE)	910	9	301974 514425



Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
209	Points of Interest - Recreational and Environmental Name: Adventure Playground Location: Brierley Road, CA25 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A4NE (SE)	913	9	301971 514421
210	Points of Interest - Recreational and Environmental Name: Play Area Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A4NE (SE)	950	9	302027 514403
210	Points of Interest - Recreational and Environmental Name: Play Area Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A4NE (SE)	998	9	302038 514355



Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Copeland Borough Council - Environmental Health Department	October 2014	Annual Rolling Update
Discharge Consents Environment Agency - North West Region	July 2019	Quarterly
Enforcement and Prohibition Notices Environment Agency - North West Region	March 2013	Annual Rolling Update
Integrated Pollution Controls Environment Agency - North West Region	October 2008	Variable
Integrated Pollution Prevention And Control Environment Agency - North West Region	July 2019	Quarterly
Local Authority Integrated Pollution Prevention And Control Copeland Borough Council - Environmental Health Department	February 2015	Variable
Local Authority Pollution Prevention and Controls Copeland Borough Council - Environmental Health Department	February 2015	Not Applicable
Local Authority Pollution Prevention and Control Enforcements Copeland Borough Council - Environmental Health Department	February 2015	Variable
Nearest Surface Water Feature Ordnance Survey	September 2019	
Pollution Incidents to Controlled Waters Environment Agency - North West Region	January 2000	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - North West Region	March 2013	Annual Rolling Update
Prosecutions Relating to Controlled Waters Environment Agency - North West Region	March 2013	Annual Rolling Update
Registered Radioactive Substances Environment Agency - North West 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 West Region - North Area	July 2019	Quarterly
Water Abstractions Environment Agency - North West Region	July 2019	Quarterly
Water Industry Act Referrals Environment Agency - North West Region	October 2017	Quarterly
Groundwater Vulnerability Map Environment Agency - Head Office	June 2018	As notified
Groundwater Vulnerability - Soluble Rock Risk Environment Agency - Head Office	June 2018	As notified
Bedrock Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Superficial Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Source Protection Zones Environment Agency - Head Office	October 2019	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	August 2019	Quarterly



Agency & Hydrological	Version	Update Cycle
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	August 2019	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	August 2019	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	August 2019	Quarterly
Flood Defences Environment Agency - Head Office	August 2019	Quarterly
OS Water Network Lines Ordnance Survey	July 2019	Quarterly
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	October 2013	Annually
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	October 2013	Annually
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	October 2013	Annually
Surface Water Suitability Environment Agency - Head Office	October 2013	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	Annually
Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Environment Agency - Head Office	October 2019	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - North West Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - North West Region - North Area	July 2018	Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - North West Region - North Area	July 2019	Quarterly
Local Authority Landfill Coverage Copeland Borough Council - Environmental Health Department Cumbria County Council - Economy And Environment Department	May 2000 May 2000	Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Copeland Borough Council - Environmental Health Department Cumbria County Council - Economy And Environment Department	May 2000 May 2000	Not Applicable Not Applicable
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	Not Applicable
Registered Landfill Sites Environment Agency - North West Region - North Area	March 2003	Not Applicable
Registered Waste Transfer Sites Environment Agency - North West Region - North Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency - North West Region - North Area	March 2003	Not Applicable



Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	April 2018	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Copeland Borough Council - Planning Cumbria County Council - Development Control	February 2016 February 2016	Variable Variable
Planning Hazardous Substance Consents Copeland Borough Council - Planning Cumbria County Council - Development Control	February 2016 February 2016	Variable Variable
Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	October 2015	Annually
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	October 2019	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	July 2019	Quarterly
Fuel Station Entries Catalist Ltd - Experian	September 2019	Quarterly
Gas Pipelines National Grid	July 2014	
Points of Interest - Commercial Services PointX	September 2019	Quarterly
Points of Interest - Education and Health PointX	September 2019	Quarterly
Points of Interest - Manufacturing and Production PointX	September 2019	Quarterly
Points of Interest - Public Infrastructure PointX	September 2019	Quarterly
Points of Interest - Recreational and Environmental PointX	September 2019	Quarterly
Underground Electrical Cables National Grid	December 2015	
Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	August 2018	Bi-Annually
Areas of Outstanding Natural Beauty Natural England	June 2019	Bi-Annually
Environmentally Sensitive Areas Natural England	January 2017	
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	March 2019	Bi-Annually
Marine Nature Reserves Natural England	July 2019	Bi-Annually
National Nature Reserves Natural England	July 2019	Bi-Annually
National Parks Natural England	April 2017	Bi-Annually
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	October 2015	
Ramsar Sites Natural England	April 2019	Bi-Annually
Sites of Special Scientific Interest Natural England	March 2019	Bi-Annually
Special Areas of Conservation Natural England	June 2019	Bi-Annually
Special Protection Areas Natural England	April 2019	Bi-Annually

A selection of organisations who provide data within this report

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



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	Copeland Borough Council - Environmental Health Department P O Box 19, Council Offices, Catherine Street, Whitehaven, Cumbria, CA28 7NY	Telephone: 01946 852585 Fax: 01946 590123 Email: dev.env@copelandbc.gov.uk Website: www.copelandbc.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	Cumbria County Council - Economy And Environment Department Citadel Chambers, Citadel Row, Carlisle, Cumbria, CA3 8SG	Telephone: 01228 606718 Website: www.cumbria.gov.uk
7	The Coal Authority - Property Searches 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
8	Peter Brett Associates Caversham Bridge House, Waterman Place, Reading, Berkshire, RG1 8DN	Telephone: 0118 950 0761 Fax: 0118 959 7498 Email: reading@pba.co.uk Website: www.pba.co.uk
9	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
10	Natural England County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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

Geology 1:50,000 Maps Legends

Artificial Ground and Landslip

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	MGR	Made Ground (Undivided)	Artificial Deposit	Not Supplied - Holocene
	WMGR	Infilled Ground	Artificial Deposit	Not Supplied - Holocene
	WGR	Worked Ground (Undivided)	Void	Not Supplied - Holocene
	LSGR	Landscaped Ground (Undivided)	Artificially Modified Ground	Not Supplied - Holocene
	FOUN	Foundered Strata	Unknown/Unclassified Entry	Not Supplied - Quaternary
	SLIP	Landslide Deposit	Unknown/Unclassified Entry	Not Supplied - Quaternary

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	SUPNM	Superficial Theme Not Mapped [For Digital Map Use Only]	Unknown/Unclassified Entry	Not Supplied - Not Supplied
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Not Supplied - Holocene
	TILLD	Till, Devensian	Diamicton	Not Supplied - Devensian
	GFDUD	Glaciofluvial Deposits, Devensian	Sand and Gravel	Not Supplied - Devensian
	PEAT	Peat	Peat	Not Supplied - Quaternary
	RTD1	River Terrace Deposits, 1	Clay, Sand and Gravel	Not Supplied - Quaternary
	ALF	Alluvial Fan Deposits	Sand and Gravel	Not Supplied - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	SBS	St Bees Sandstone Member	Sandstone	Not Supplied - Early Triassic
	SBSH	St Bees Shale Formation	Siltstone and Mudstone, Interbedded	Not Supplied - GUADALUPIAN
	BK	Brockram	Breccia	Not Supplied - Cisuralian
	WS	Whitehaven Sandstone Formation	Sandstone	Not Supplied - Westphalian

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	MYTB	Millyeat Member	Mudstone, Sandstone and Limestone	Not Supplied - Westphalian
	PMCM	Pennine Middle Coal Measures Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	PLCM	Pennine Lower Coal Measures Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	HG	Hensingham Grit	Sandstone	Not Supplied - Namurian
	LM1	First Limestone (Cumbria)	Limestone	Not Supplied - Namurian
	SMGP	Stainmore Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Namurian
	OBS	Orebank Sandstone	Sandstone	Not Supplied - Visean
	LM2	Second Limestone (Cumbria)	Limestone	Not Supplied - Visean
	SH1	First Shale Member	Sandstone, Siltstone and Mudstone	Not Supplied - Visean
	ESKT	Eskett Limestone Formation	Limestone	Not Supplied - Visean
	FRLI	Frizington Limestone Formation	Limestone	Not Supplied - Visean
	MASA	Marsett Sandstone Formation	Conglomerate	Not Supplied - Tournaisian
	LDDMI	Lake District Devonian Minor Intrusion Suite	Andesite	Not Supplied - Early Devonian
	BUF	Buttermere Formation	Mudstone and Sandstone	Not Supplied - Tremadoc
		Faults		
		Rock Segments		



Geology 1:50,000 Maps

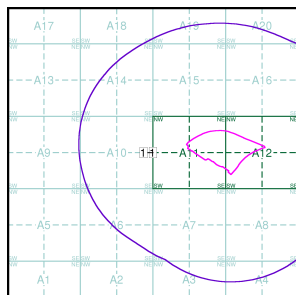
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published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

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

Geology 1:50,000 Maps Coverage

Map ID:	1
Map Sheet No:	028
Map Name:	Whitehaven
Map Date:	2004
Bedrock Geology:	Available
Superficial Geology:	Not Available
Artificial Geology:	Not Available
Faults:	Not Supplied
Landslip:	Not Available
Rock Segments:	Not Supplied

Geology 1:50,000 Maps - Slice A



Order Details:

Order Number:	224379683_1_1
Customer Reference:	A114312
National Grid Reference:	301380, 515510
Slice:	A
Site Area (Ha):	15.46
Search Buffer (m):	1000

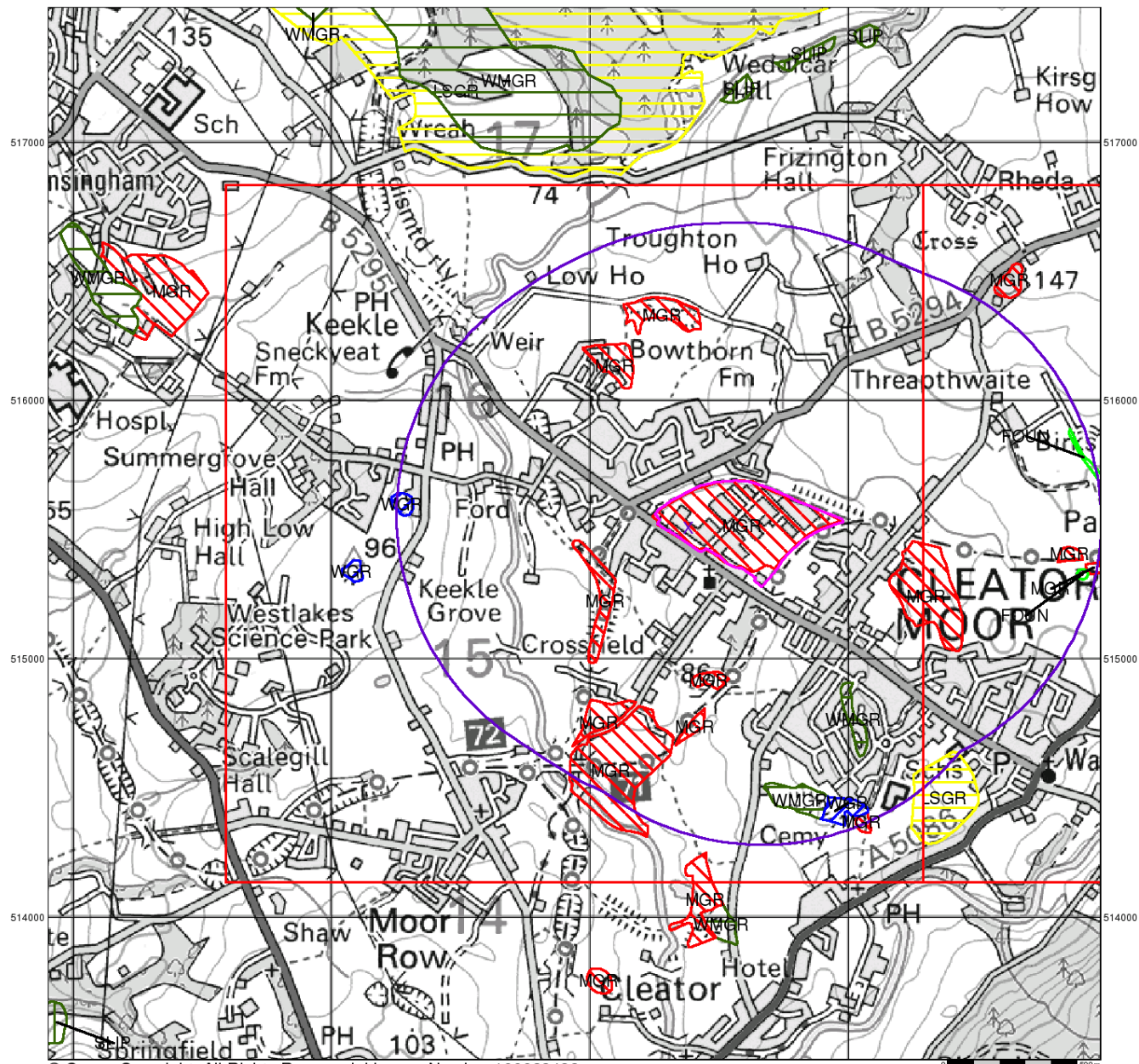
Site Details:

Leconfield Industrial Estate, CLEATOR MOOR, CA25 5QQ

Landmark
INFORMATION GROUP

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

299000 300000 301000 302000



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Artificial Ground and Landslip

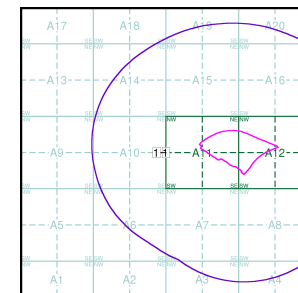
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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

Artificial ground includes:

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

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

Artificial Ground and Landslip Map - Slice A



Order Details:

Order Number: 224379683_1_1
 Customer Reference: A114312
 National Grid Reference: 301380, 515510
 Slice: A
 Site Area (Ha): 15.46
 Search Buffer (m): 1000

Site Details:

Leconfield Industrial Estate, CLEATOR MOOR, CA25 5QQ

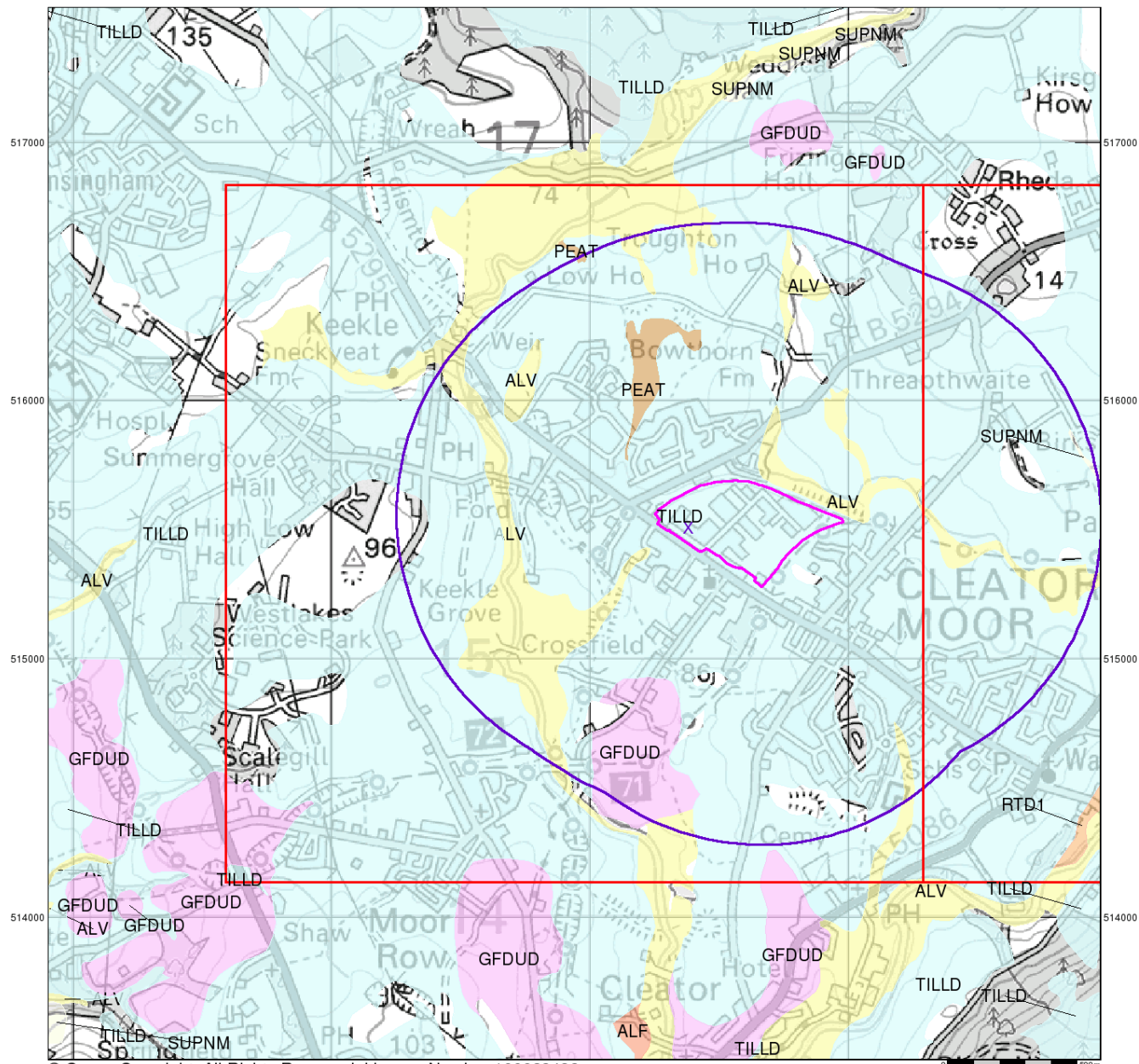
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 Web: www.envirocheck.co.uk

v15.0 08-Nov-2019

Page 2 of 5

299000 300000 301000 302000



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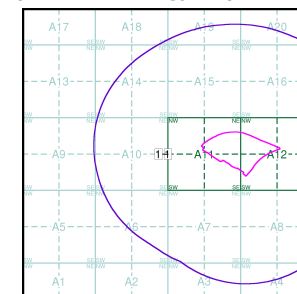
Superficial Geology

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

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

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

Superficial Geology Map - Slice A



Order Details:

Order Number: 224379683_1_1
 Customer Reference: A114312
 National Grid Reference: 301380, 515510
 Slice: A
 Site Area (Ha): 15.46
 Search Buffer (m): 1000

Site Details:

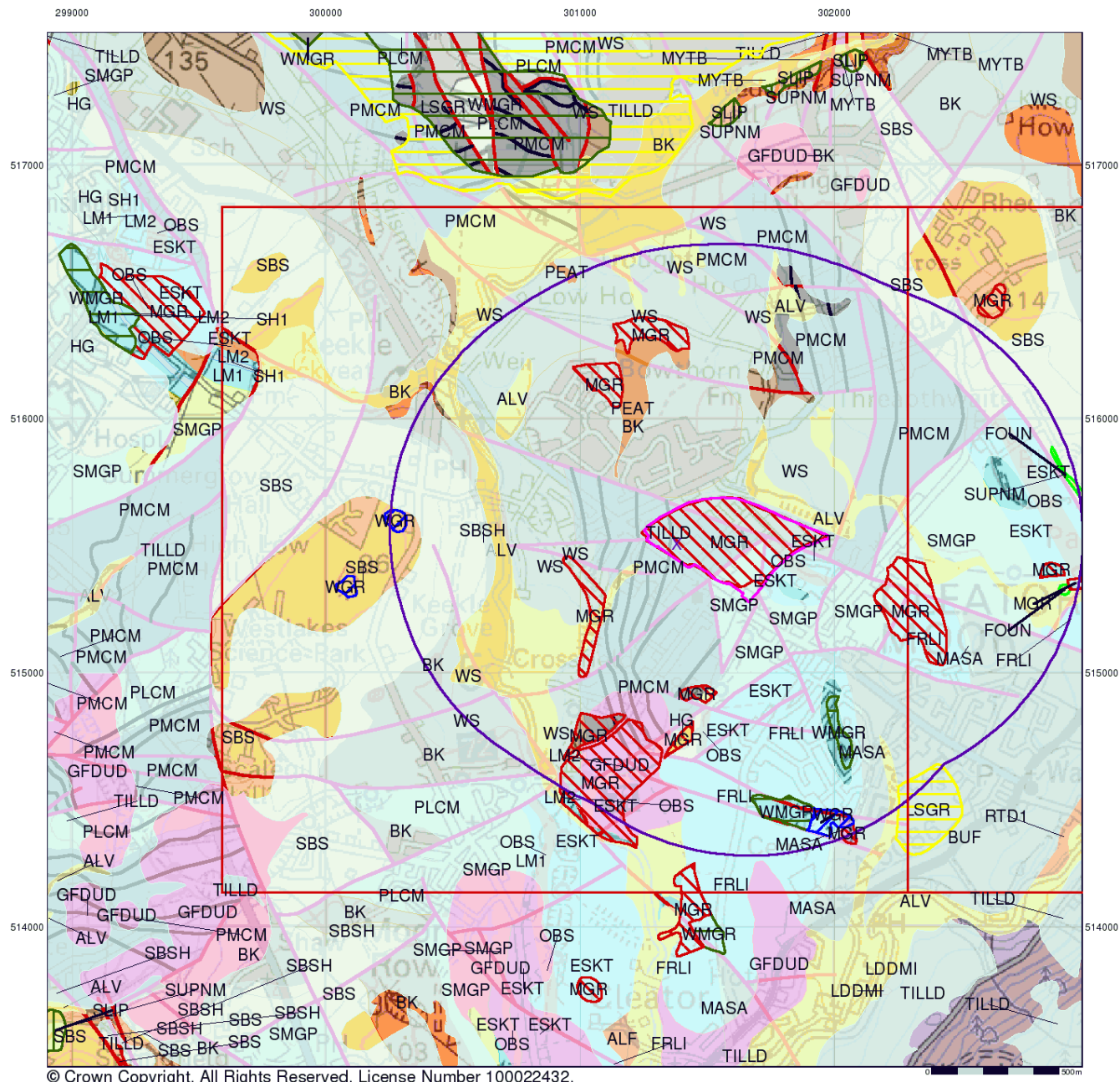
Leconfield Industrial Estate, CLEATOR MOOR, CA25 5QQ

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Combined Surface Geology

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

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

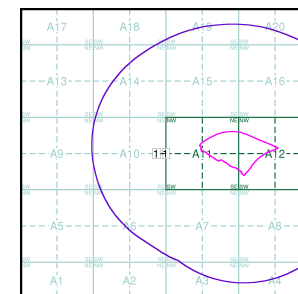
Additional Information

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

Contact

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

Combined Geology Map - Slice A



Order Details:

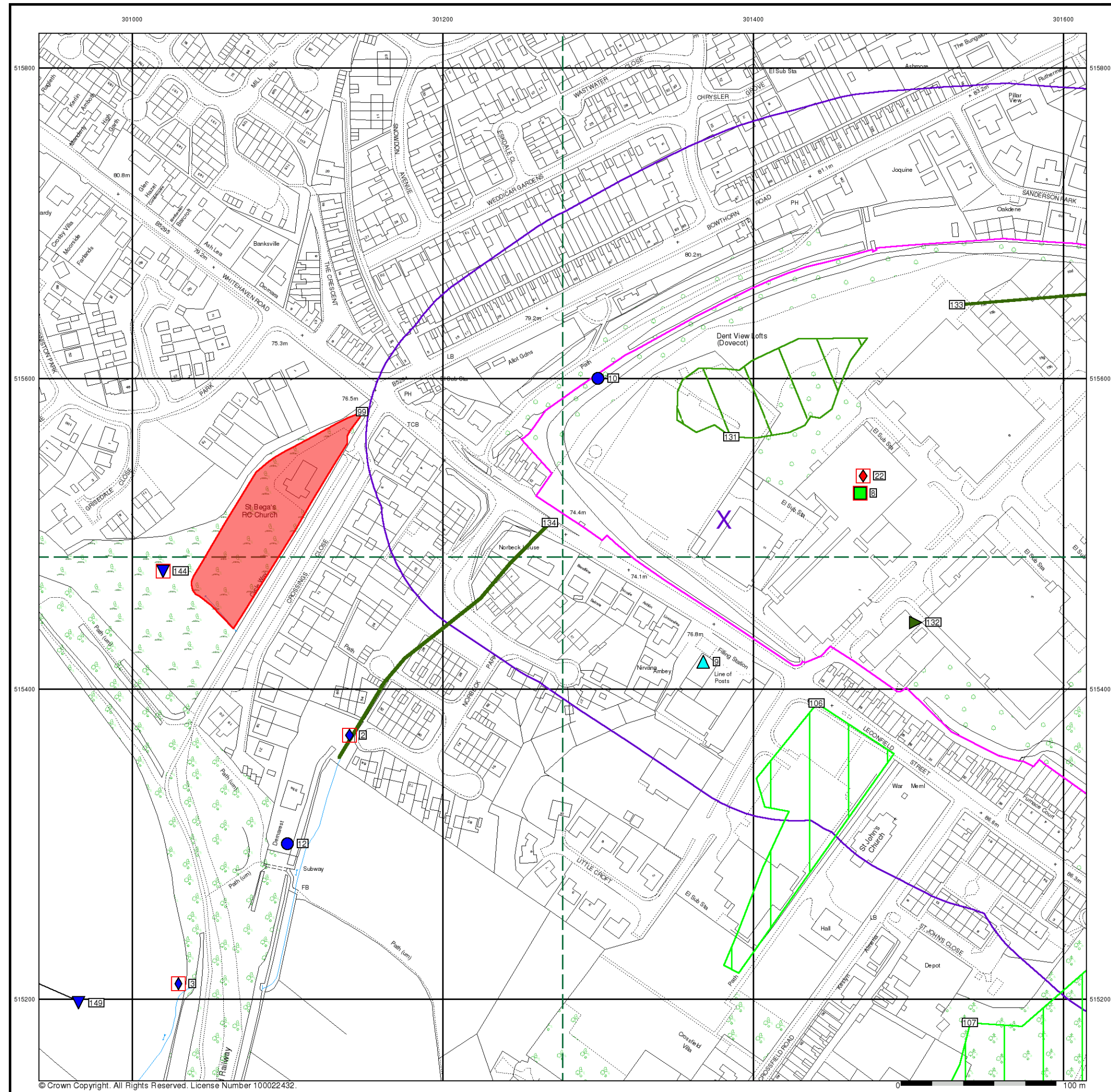
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Customer Reference: A114312
National Grid Reference: 301380, 515510
Slice: A
Site Area (Ha): 15.46
Search Buffer (m): 1000

Site Details:

Leconfield Industrial Estate, CLEATOR MOOR, CA25 5QQ

Landmark
INFORMATION GROUP

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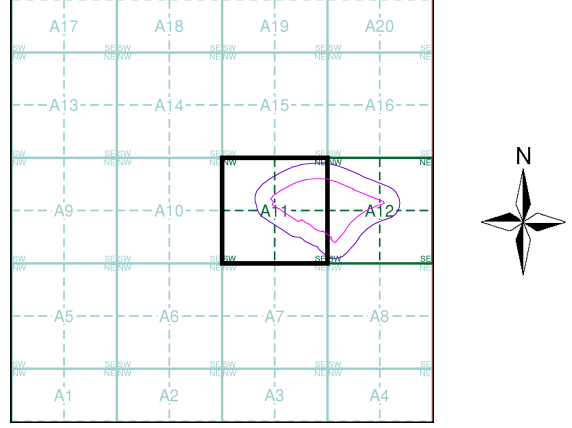


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- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Types at Location
 - Pylon
 - Overhead Transmission Line
- Agency and Hydrological**
- Contaminated Land Register Entry or Notice (Location)
 - Contaminated Land Register Entry or Notice
 - Discharge Consent
 - Enforcement or Prohibition Notice
 - Integrated Pollution Control
 - Integrated Pollution Prevention Control
 - Local Authority Integrated Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control Enforcement
 - Pollution Incident to Controlled Waters
 - Prosecution Relating to Authorised Processes
 - Prosecution Relating to Controlled Waters
 - Registered Radioactive Substance
 - River Network or Water Feature
 - River Quality Sampling Point
 - Substantiated Pollution Incident Register
 - Water Abstraction
 - Water Industry Act Referral
- Hazardous Substances**
- COMAH Site
 - Explosive Site
 - NIHHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement
 - BGS Recorded Mineral Site
- Waste**
- BGS Recorded Landfill Site (Location)
 - BGS Recorded Landfill Site
 - EA Historic Landfill (Buffered Point)
 - EA Historic Landfill (Polygon)
 - Integrated Pollution Control Registered Waste Site
 - Licensed Waste Management Facility (Landfill Boundary)
 - Licensed Waste Management Facility (Location)
 - Local Authority Recorded Landfill Site (Location)
 - Local Authority Recorded Landfill Site
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Registered Landfill Site
 - Registered Landfill Site (Location)
 - Registered Landfill Site (Point Buffered to 100m)
 - Registered Landfill Site (Point Buffered to 250m)
 - Registered Waste Transfer Site (Location)
 - Registered Waste Transfer Site
 - Registered Waste Treatment or Disposal Site (Location)
 - Registered Waste Treatment or Disposal Site

Site Sensitivity Map - Segment A11



Order Details

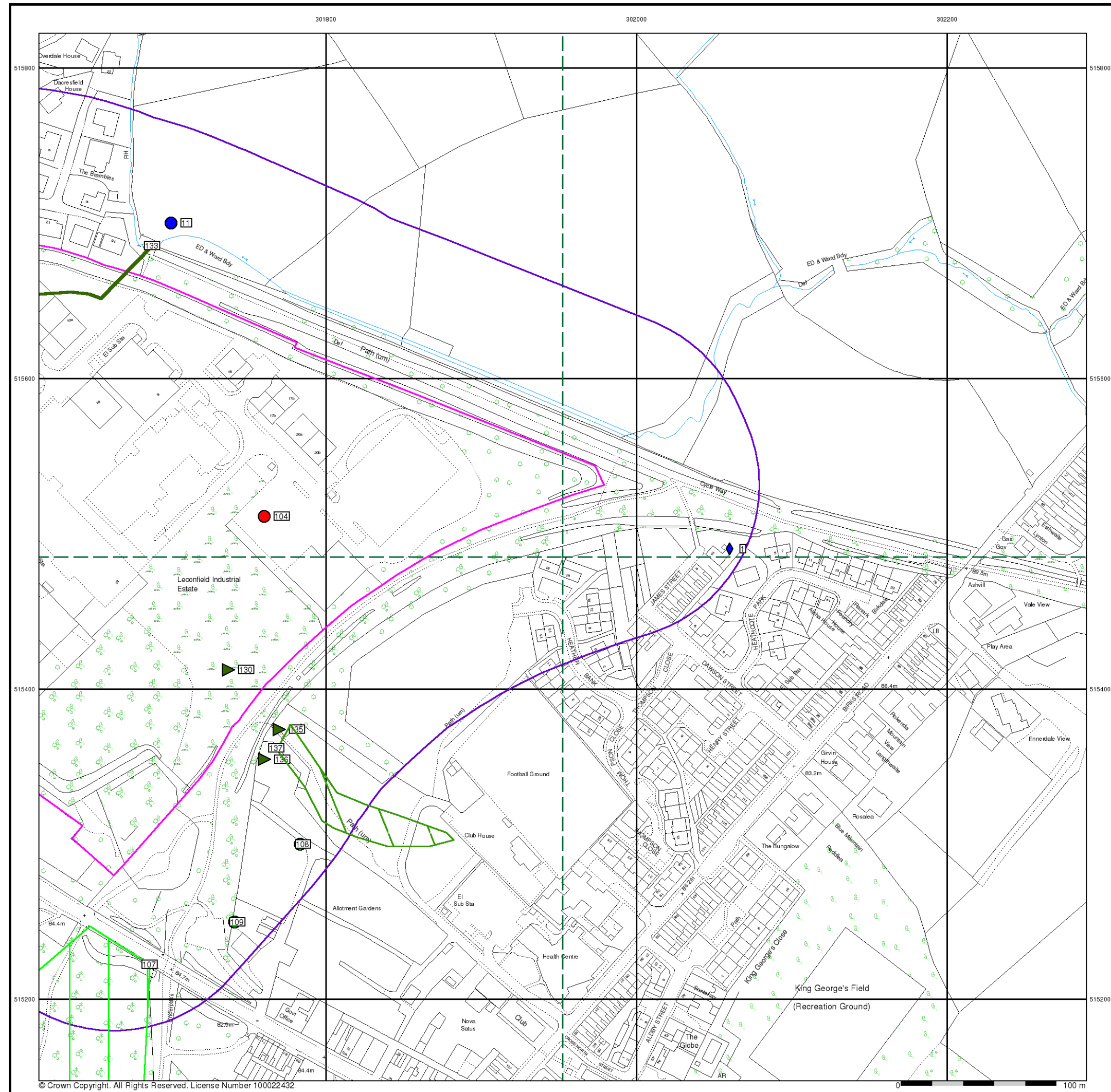
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Slice: A
Site Area (Ha): 15.46
Plot Buffer (m): 100

Site Details

Leconfield Industrial Estate, CLEATOR MOOR, CA25 5QQ

Landmark
INFORMATION GROUP

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

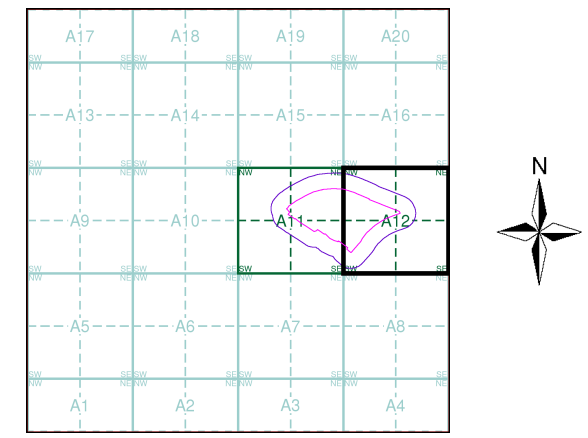


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- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
- Agency and Hydrological**
- Contaminated Land Register Entry or Notice (Location)
 - Contaminated Land Register Entry or Notice
 - Discharge Consent
 - Enforcement or Prohibition Notice
 - Integrated Pollution Control
 - Integrated Pollution Prevention Control
 - Local Authority Integrated Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control Enforcement
 - Pollution Incident to Controlled Waters
 - Prosecution Relating to Authorised Processes
 - Prosecution Relating to Controlled Waters
 - Registered Radioactive Substance
 - River Network or Water Feature
 - River Quality Sampling Point
 - Substantiated Pollution Incident Register
 - Water Abstraction
 - Water Industry Act Referral
- Hazardous Substances**
- COMAH Site
 - Explosive Site
 - NIHHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement
- Geological**
- BGS Recorded Mineral Site
- Waste**
- BGS Recorded Landfill Site (Location)
 - BGS Recorded Landfill Site
 - EA Historic Landfill (Buffered Point)
 - EA Historic Landfill (Polygon)
 - Integrated Pollution Control Registered Waste Site
 - Licensed Waste Management Facility (Landfill Boundary)
 - Licensed Waste Management Facility (Location)
 - Local Authority Recorded Landfill Site (Location)
 - Local Authority Recorded Landfill Site
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Registered Landfill Site
 - Registered Landfill Site (Location)
 - Registered Landfill Site (Point Buffered to 100m)
 - Registered Landfill Site (Point Buffered to 250m)
 - Registered Waste Transfer Site (Location)
 - Registered Waste Transfer Site
 - Registered Waste Treatment or Disposal Site (Location)
 - Registered Waste Treatment or Disposal Site

Site Sensitivity Map - Segment A12



Order Details

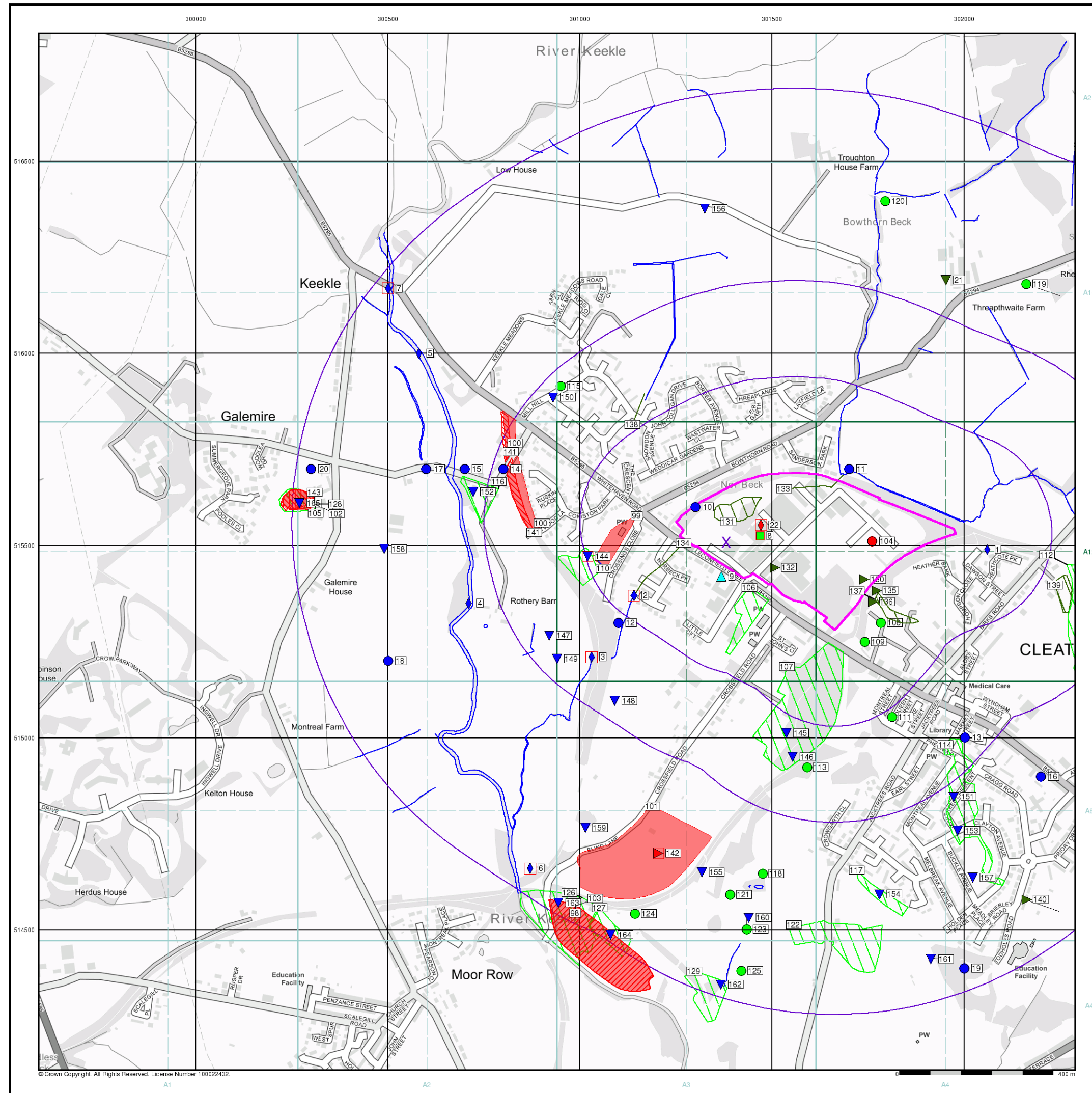
Order Number: 224379683_1_1
Customer Ref: A114312
National Grid Reference: 301380, 515510
Slice: A
Site Area (Ha): 15.46
Plot Buffer (m): 100

Site Details

Leconfield Industrial Estate, CLEATOR MOOR, CA25 5QQ

Landmark
INFORMATION GROUP

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

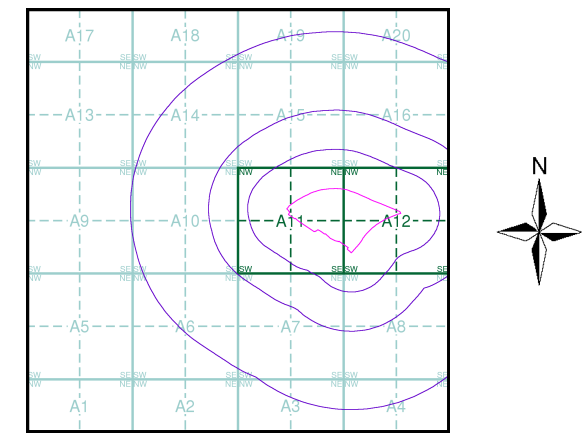


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- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Type at Location
- Agency and Hydrological**
- Contaminated Land Register Entry or Notice (Location)
 - Contaminated Land Register Entry or Notice
 - Discharge Consent
 - Enforcement or Prohibition Notice
 - Integrated Pollution Control
 - Integrated Pollution Prevention Control
 - Local Authority Integrated Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control Enforcement
 - Pollution Incident to Controlled Waters
 - Prosecution Relating to Authorised Processes
 - Prosecution Relating to Controlled Waters
 - Registered Radioactive Substance
 - River Network or Water Feature
 - River Quality Sampling Point
 - Substantiated Pollution Incident Register
 - Water Abstraction
 - Water Industry Act Referral
- Hazardous Substances**
- COMAH Site
 - Explosive Site
 - NIHHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement
 - BGS Recorded Mineral Site
- Waste**
- BGS Recorded Landfill Site (Location)
 - BGS Recorded Landfill Site
 - EA Historic Landfill (Buffered Point)
 - EA Historic Landfill (Polygon)
 - Integrated Pollution Control Registered Waste Site
 - Licensed Waste Management Facility (Landfill Boundary)
 - Licensed Waste Management Facility (Location)
 - Local Authority Recorded Landfill Site (Location)
 - Local Authority Recorded Landfill Site
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Registered Landfill Site (Location)
 - Registered Landfill Site (Point Buffered to 100m)
 - Registered Landfill Site (Point Buffered to 250m)
 - Registered Waste Transfer Site (Location)
 - Registered Waste Transfer Site
 - Registered Waste Treatment or Disposal Site (Location)
 - Registered Waste Treatment or Disposal Site

Site Sensitivity Map - Slice A



Order Details

Order Number: 224379683_1_1
Customer Ref: A114312
National Grid Reference: 301380, 515510
Slice: A
Site Area (Ha): 15.46
Search Buffer (m): 1000

Site Details

Leconfield Industrial Estate, CLEATOR MOOR, CA25 5QQ



Industrial Land Use Map

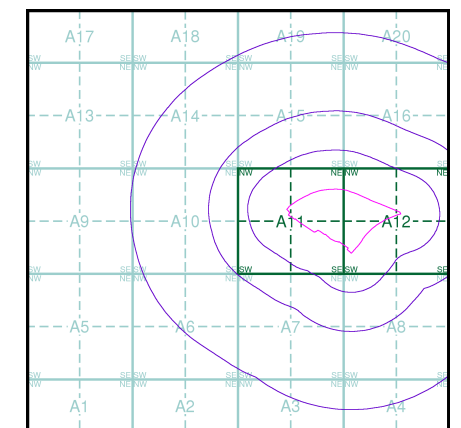
General

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

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- Gas Pipeline
- Points of Interest - Commercial Services
- Points of Interest - Education and Health
- Points of Interest - Manufacturing and Production
- Points of Interest - Public Infrastructure
- Points of Interest - Recreational and Environmental
- Underground Electrical Cables

Industrial Land Use Map - Slice A



Order Details

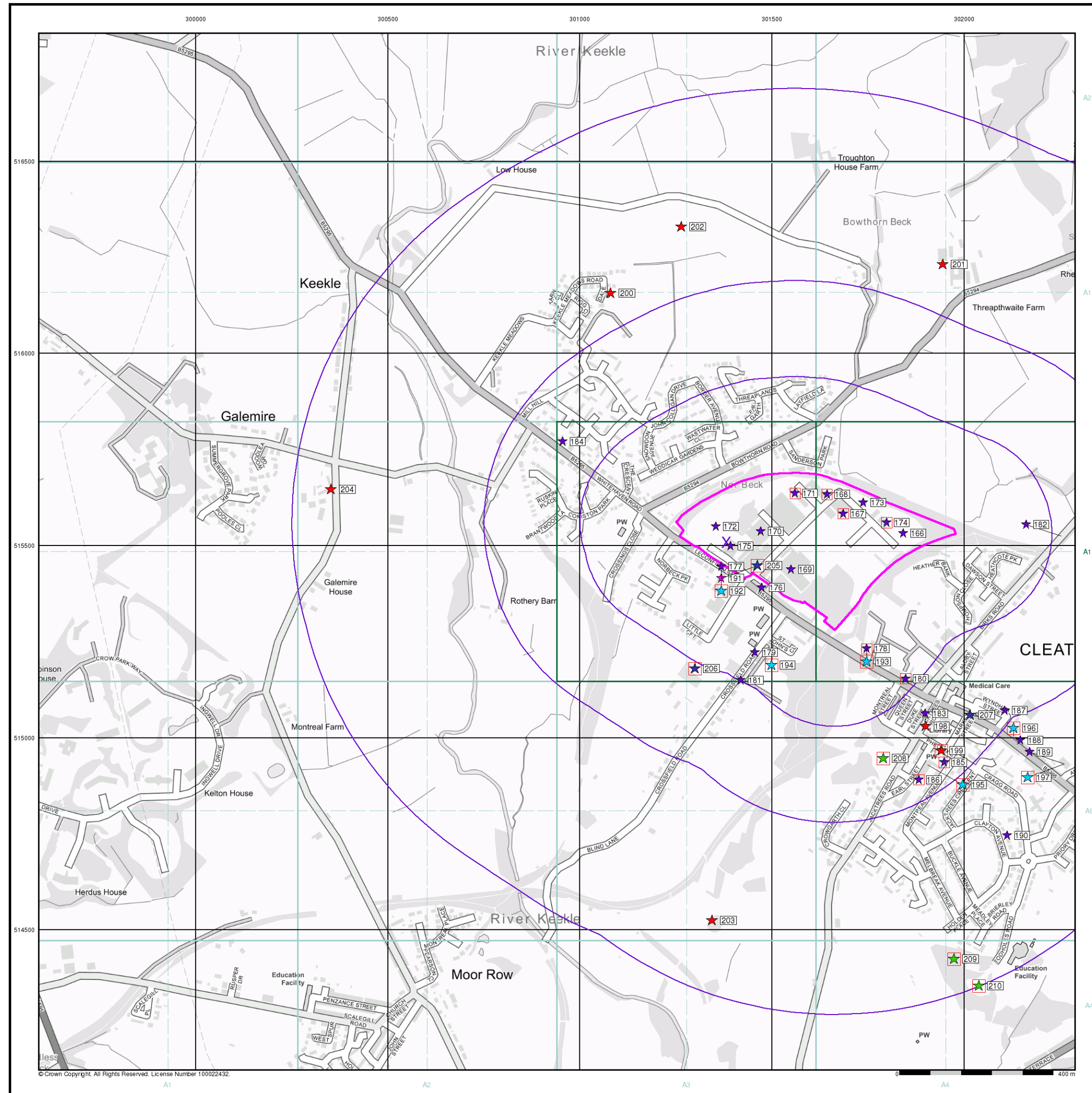
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Customer Ref: A114312
National Grid Reference: 301380, 515510
Slice: A
Site Area (Ha): 15.46
Search Buffer (m): 1000

Site Details

Leconfield Industrial Estate, CLEATOR MOOR, CA25 5QQ

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INFORMATION GROUP

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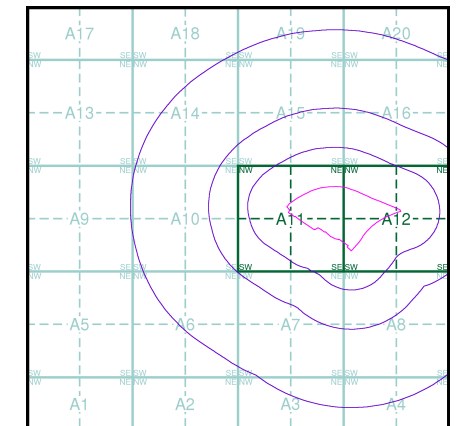
General

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

Agency and Hydrological (Flood)

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

Flood Map - Slice A



Order Details

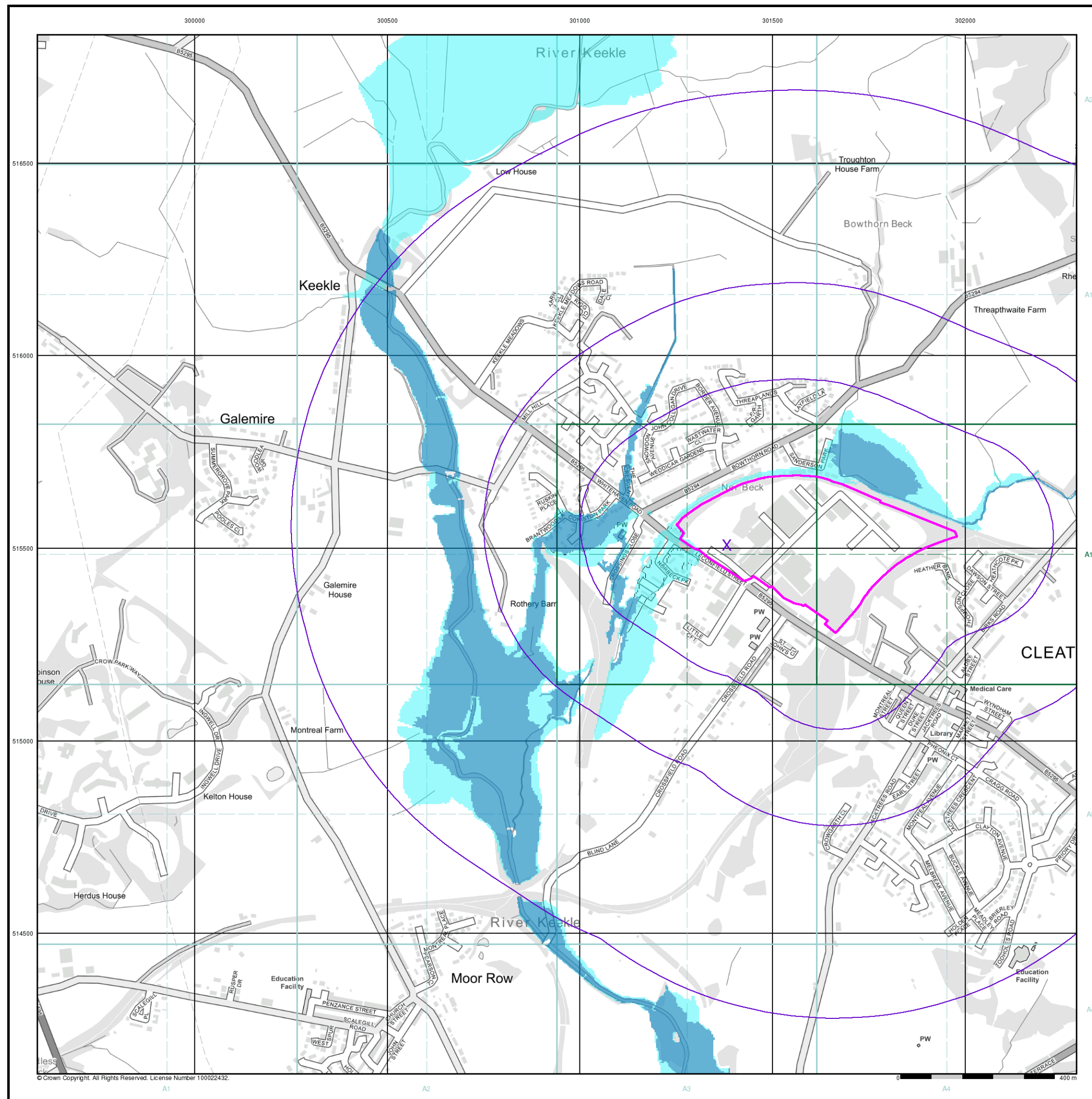
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Customer Ref: A114312
National Grid Reference: 301380, 515510
Slice: A
Site Area (Ha): 15.46
Search Buffer (m): 1000

Site Details

Leconfield Industrial Estate, CLEATOR MOOR, CA25 5QQ

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General

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

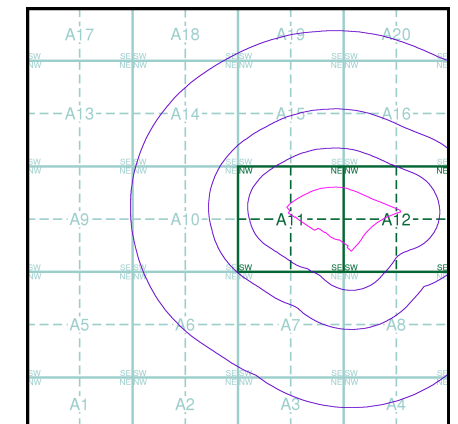
Agency and Hydrological (Boreholes)

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

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

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

Borehole Map - Slice A



Order Details

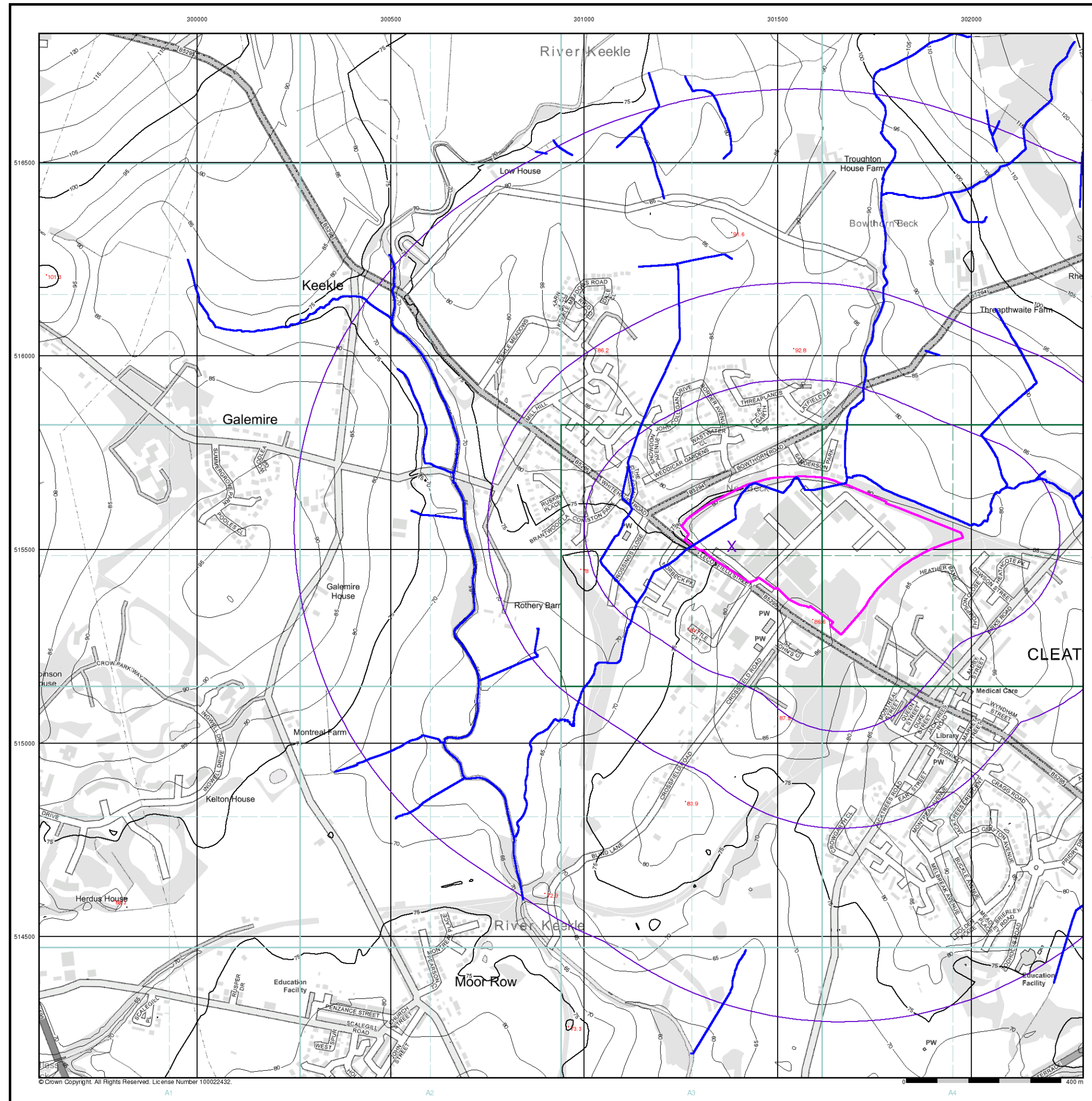
Order Number: 224379683_1_1
Customer Ref: A114312
National Grid Reference: 301380, 515510
Slice: A
Site Area (Ha): 15.46
Search Buffer (m): 1000

Site Details

Leconfield Industrial Estate, CLEATOR MOOR, CA25 5QQ

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INFORMATION GROUP

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General

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

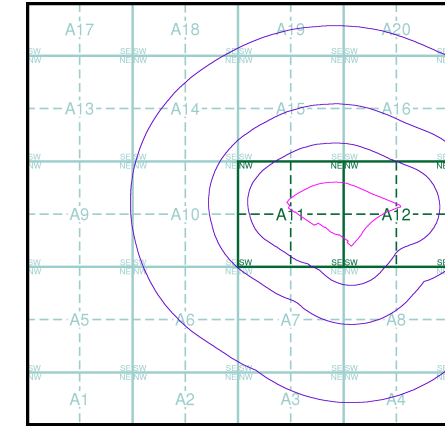
OS Water Network Data

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

Contours (height in meters)

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

OS Water Network Map - Slice A



Order Details

Order Number: 224379683_1_1
Customer Ref: A114312
National Grid Reference: 301380, 515510
Slice: A
Site Area (Ha): 15.46
Search Buffer (m): 1000

Site Details

Leconfield Industrial Estate, CLEATOR MOOR, CA25 5QQ



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General

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

Risk of Flooding from Surface Water

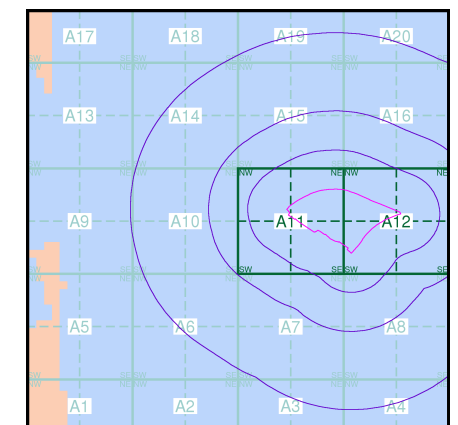
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

Suitability

See the suitability map below

- National to county
- County to town
- Town to street
- Street to parcels of land
- Property

EAN/RW Suitability Map - Slice A



Order Details

Order Number: 224379683_1_1
Customer Ref: A114312
National Grid Reference: 301380, 515510
Slice: A
Site Area (Ha): 15.46
Search Buffer (m): 1000

Site Details

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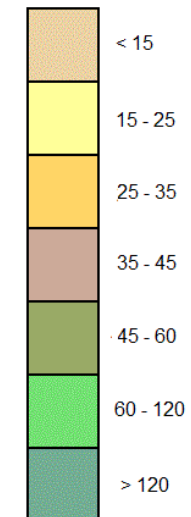


General

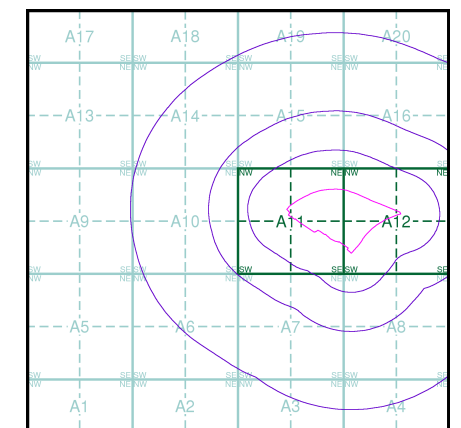
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg



Estimated Soil Chemistry Arsenic - Slice A



Order Details

Order Details: 224379683_1_1
Customer Ref: A114312
National Grid Reference: 301380, 515510
Slice: A
Site Area (Ha): 15.46
Search Buffer (m): 1000

Site Details

Leconfield Industrial Estate, CLEATOR MOOR, CA25 5QQ

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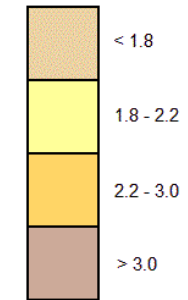


General

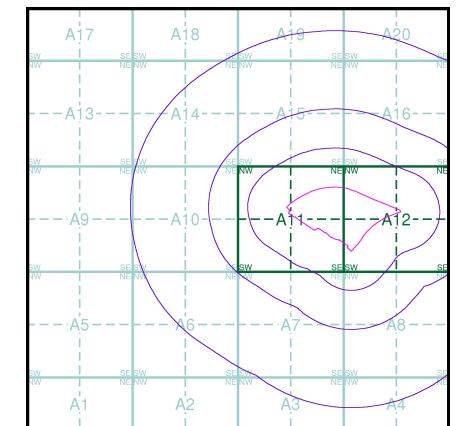
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg



Estimated Soil Chemistry Cadmium - Slice A



Order Details

Order Details: 224379683_1_1
Customer Ref: A114312
National Grid Reference: 301380, 515510
Slice: A
Site Area (Ha): 15.46
Search Buffer (m): 1000

Site Details

Leconfield Industrial Estate, CLEATOR MOOR, CA25 5QQ

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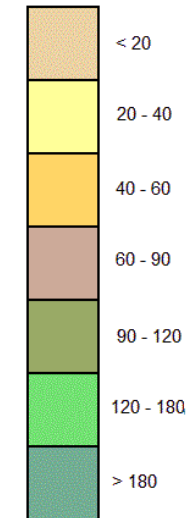


General

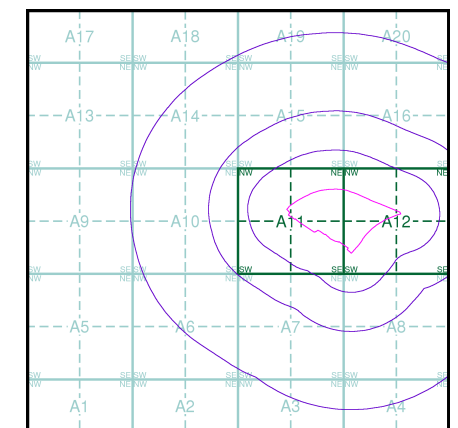
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg



Estimated Soil Chemistry Chromium - Slice A



Order Details

Order Details: 224379683_1_1
Customer Ref: A114312
National Grid Reference: 301380, 515510
Slice: A
Site Area (Ha): 15.46
Search Buffer (m): 1000

Site Details

Leconfield Industrial Estate, CLEATOR MOOR, CA25 5QQ

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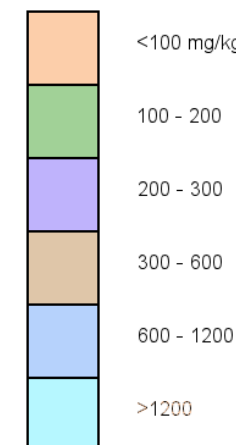


General

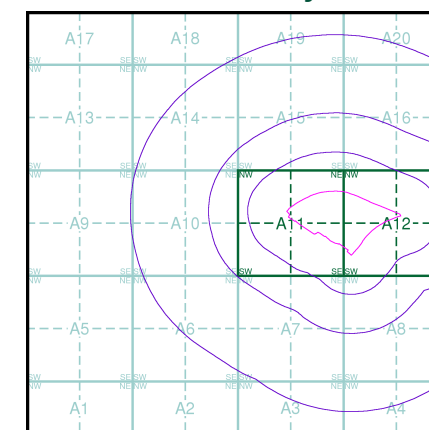
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg



Estimated Soil Chemistry Lead - Slice A



Order Details

Order Details: 224379683_1_1
Customer Ref: A114312
National Grid Reference: 301380, 515510
Slice: A
Site Area (Ha): 15.46
Search Buffer (m): 1000

Site Details

Leconfield Industrial Estate, CLEATOR MOOR, CA25 5QQ

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

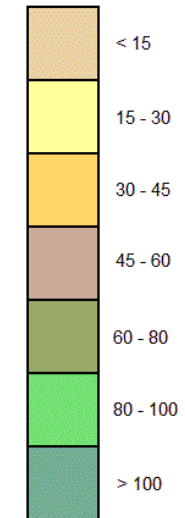


General

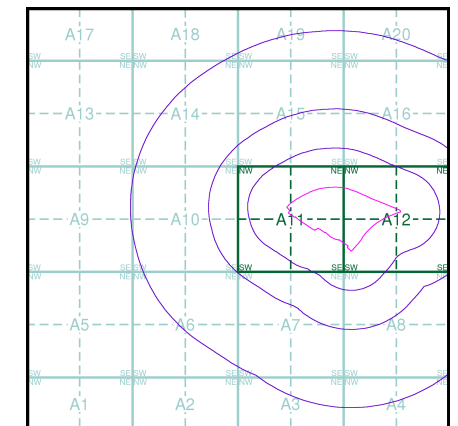
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg



Estimated Soil Chemistry Nickel - Slice A



Order Details

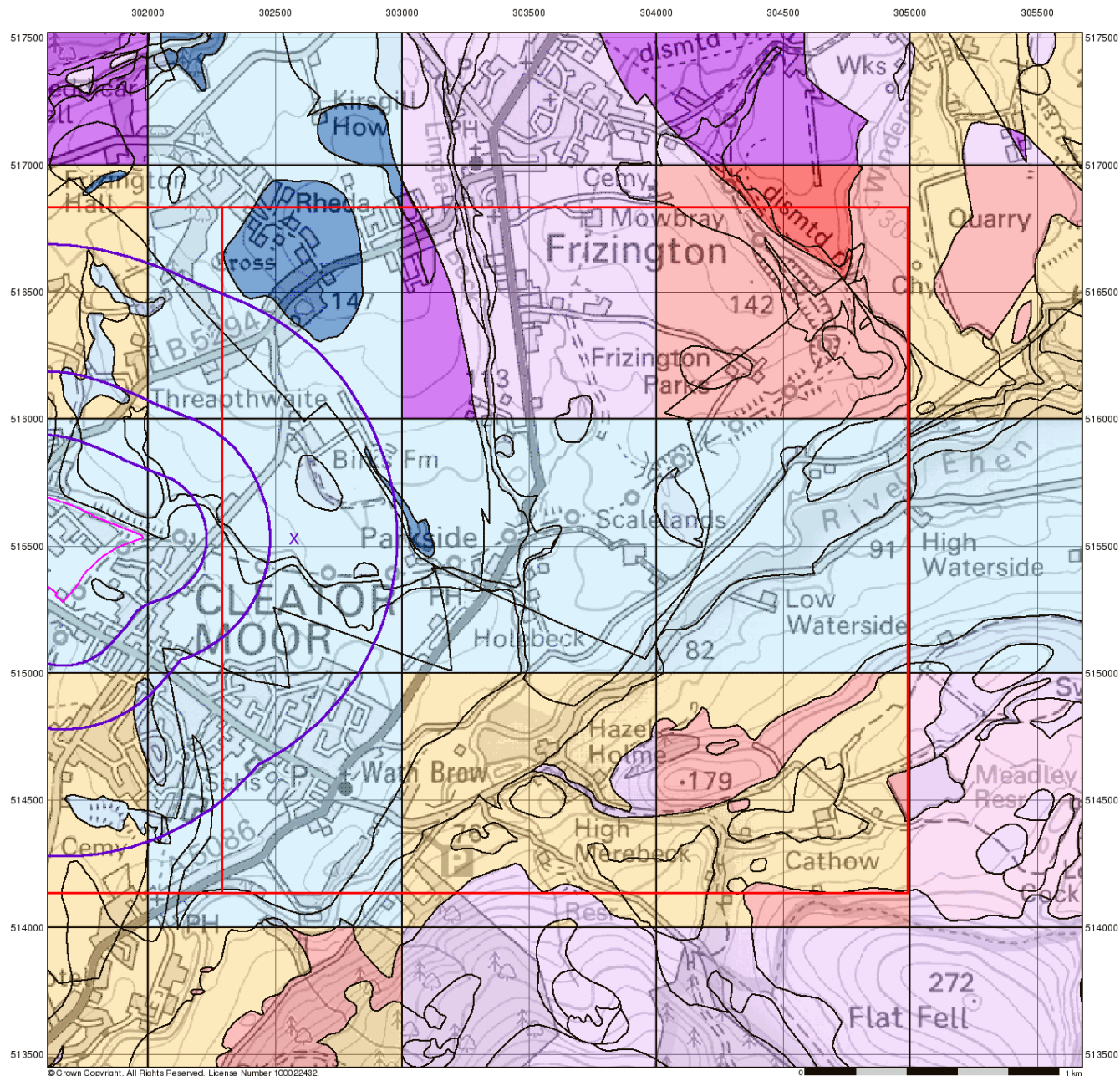
Order Details: 224379683_1_1
Customer Ref: A114312
National Grid Reference: 301380, 515510
Slice: A
Site Area (Ha): 15.46
Search Buffer (m): 1000

Site Details

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Groundwater Vulnerability

General

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

Agency and Hydrological

Bedrock Aquifers

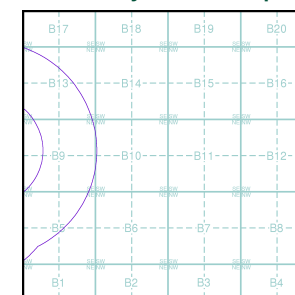
- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

Superficial Aquifers

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

- Unproductive Aquifer
- Soluble Rock

Site Sensitivity Context Map - Slice B



Order Details

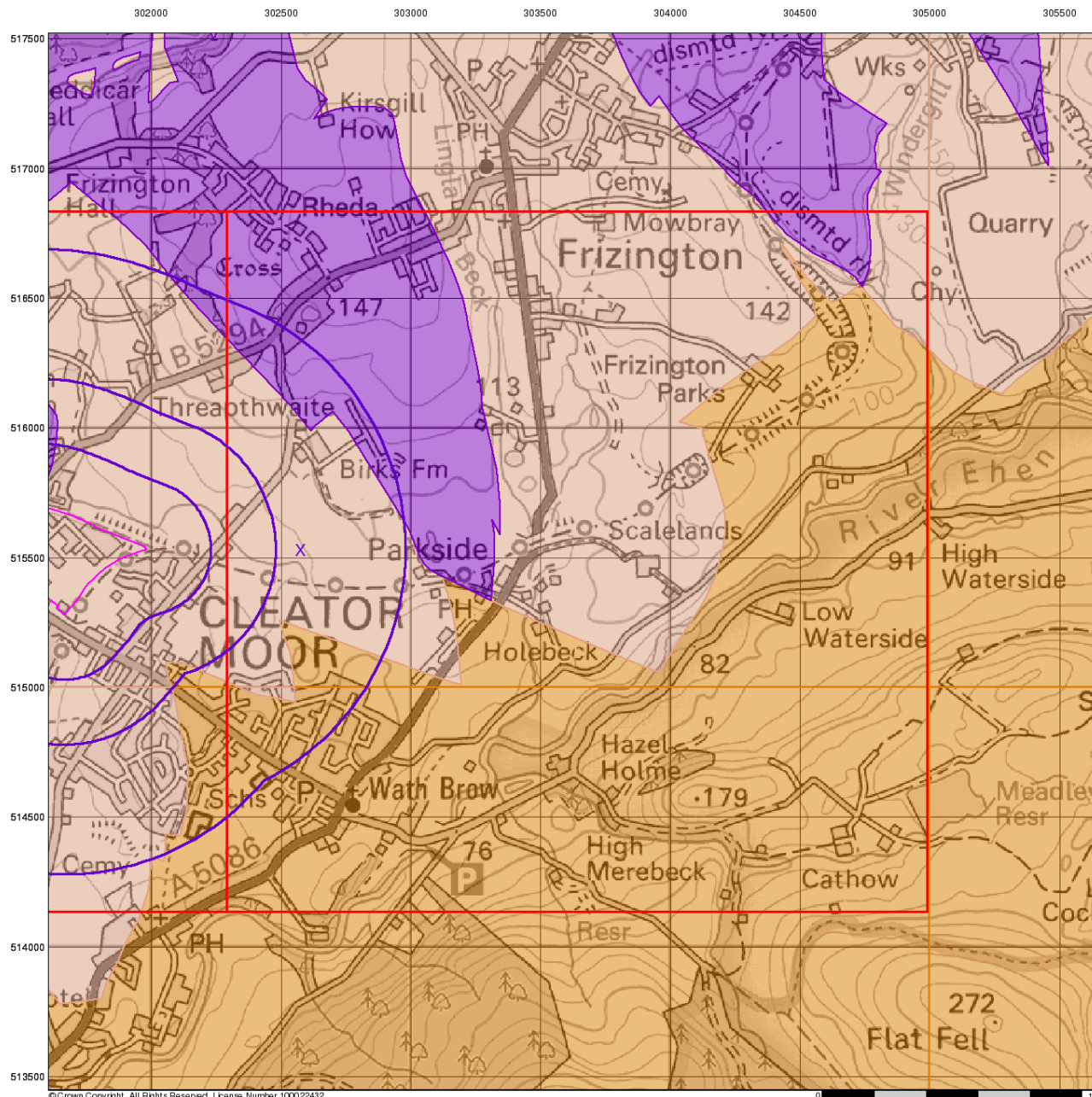
Order Number: 224379683_1_1
 Customer Ref: A114312
 National Grid Reference: 302570, 515530
 Slice: B
 Site Area (Ha): 15.46
 Search Buffer (m): 1000

Site Details

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Bedrock Aquifer Designation

General

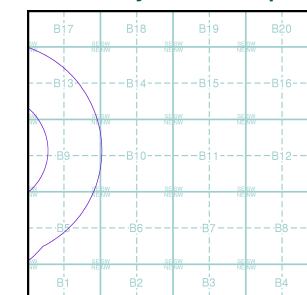
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice B



Order Details

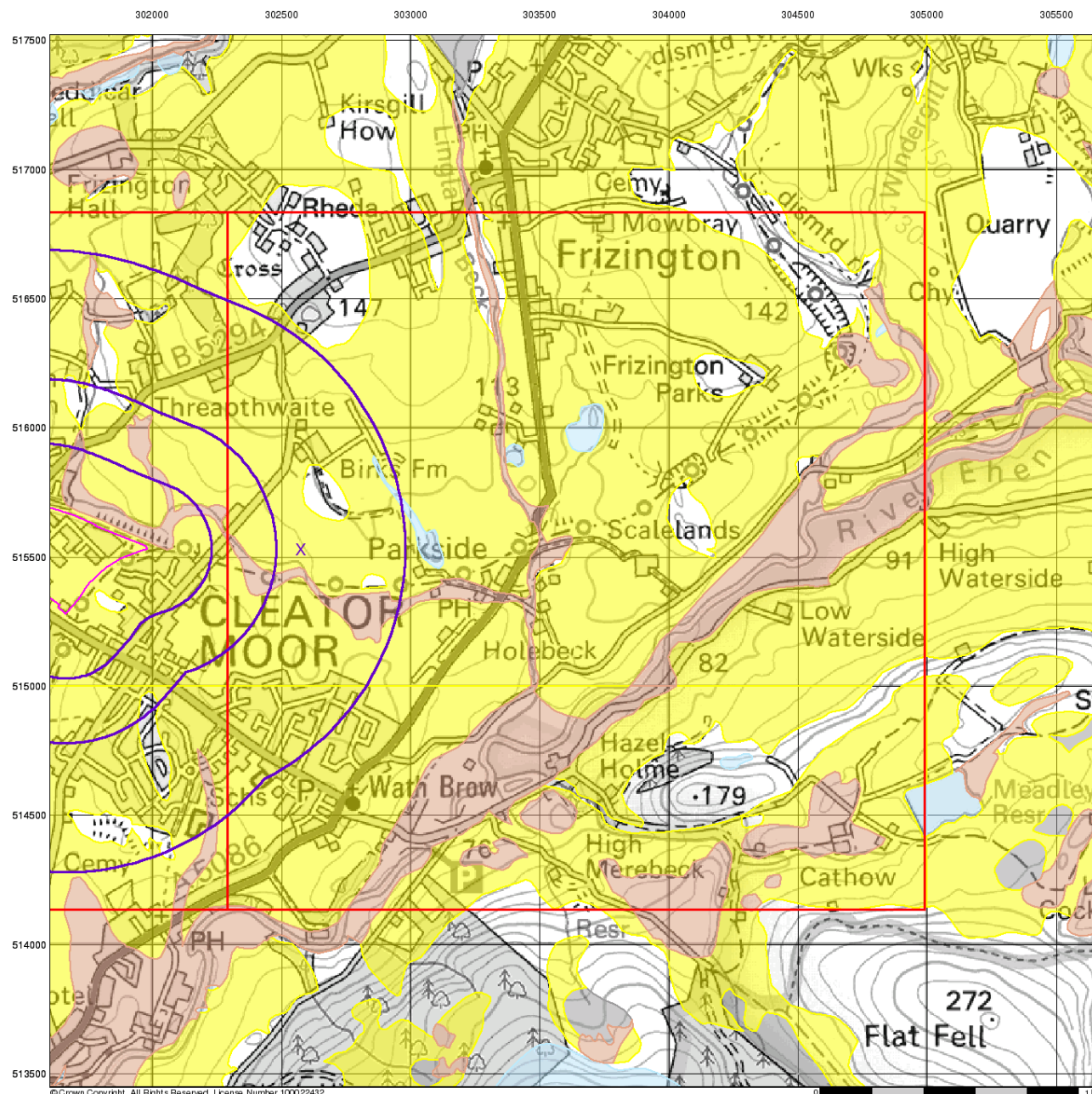
Order Number: 224379683_1_1
 Customer Ref: A114312
 National Grid Reference: 302570, 515530
 Slice: B
 Site Area (Ha): 15.46
 Search Buffer (m): 1000

Site Details

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Superficial Aquifer Designation

General

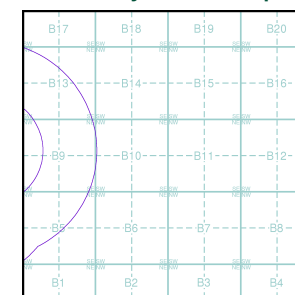
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice B



Order Details

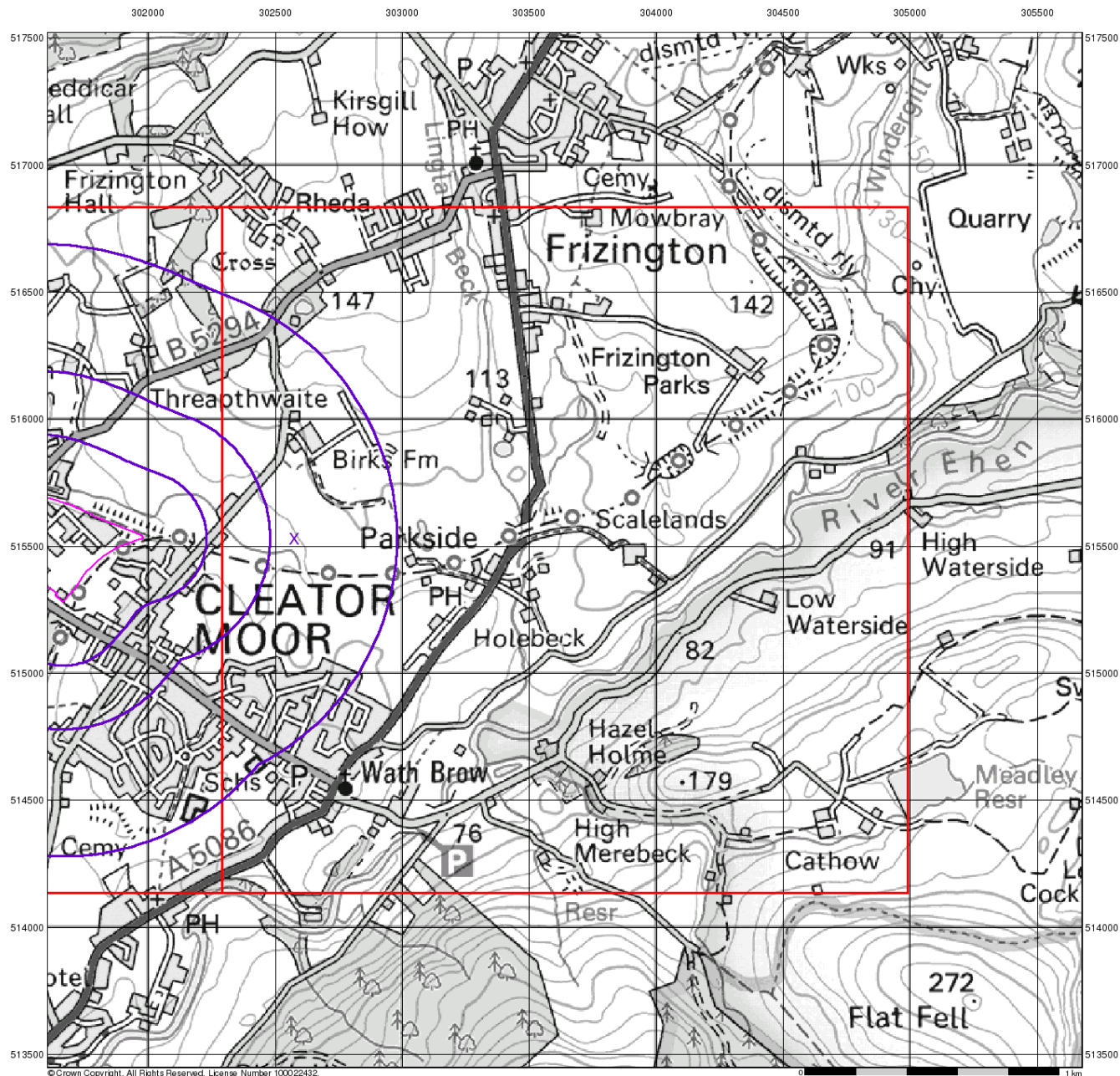
Order Number: 224379683_1_1
 Customer Ref: A114312
 National Grid Reference: 302570, 515530
 Slice: B
 Site Area (Ha): 15.46
 Search Buffer (m): 1000

Site Details

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Source Protection Zones

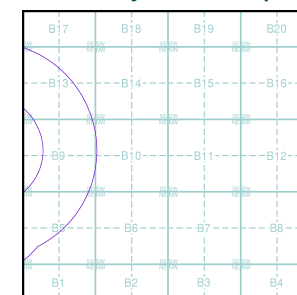
General

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

Agency and Hydrological

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

Site Sensitivity Context Map - Slice B



Order Details

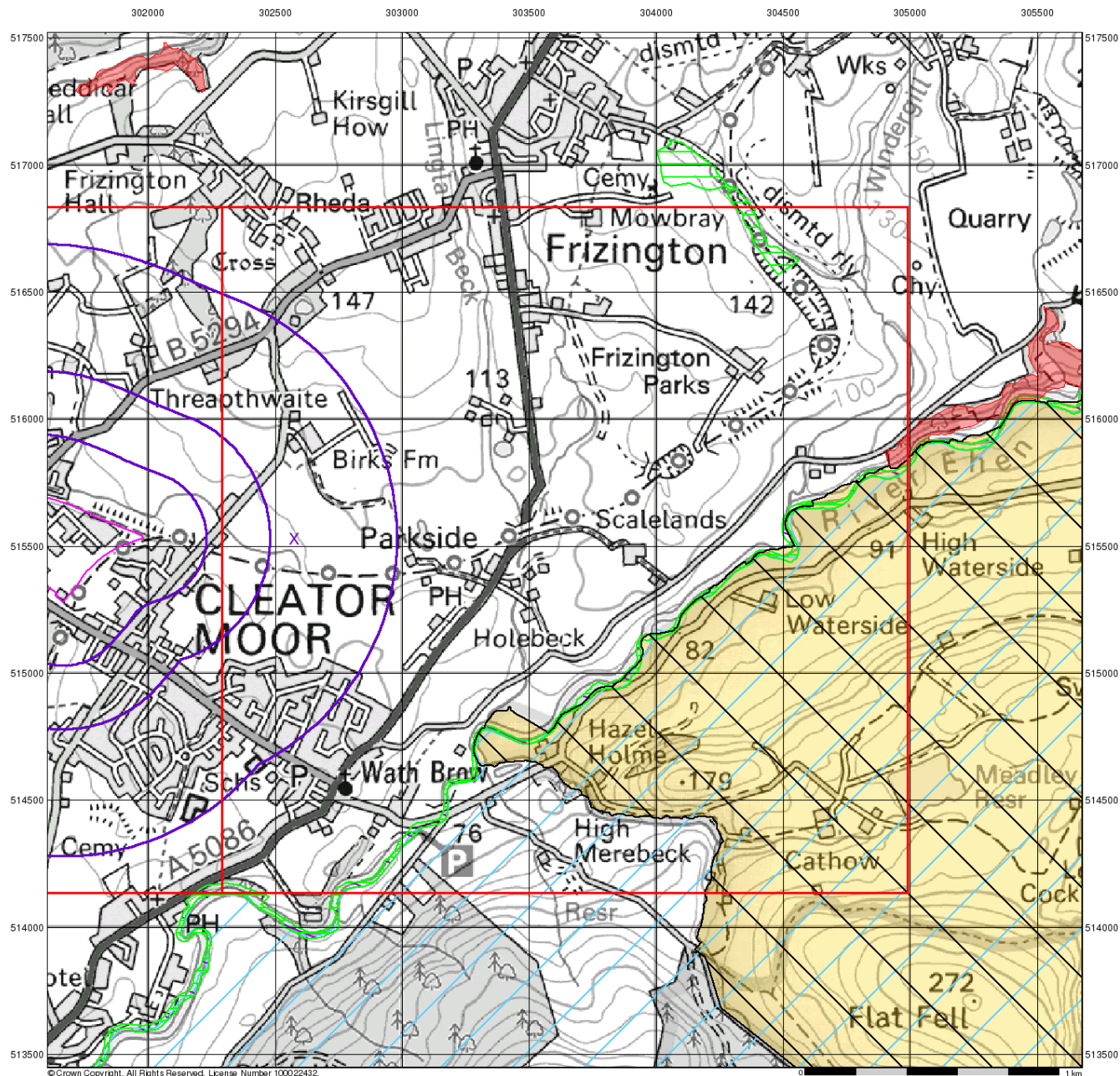
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 Site Area (Ha): 15.46
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Sensitive Land Uses

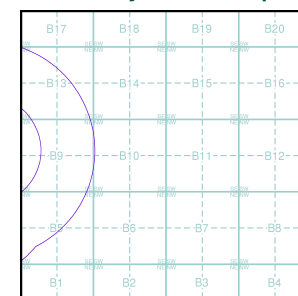
General

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

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice B



Order Details

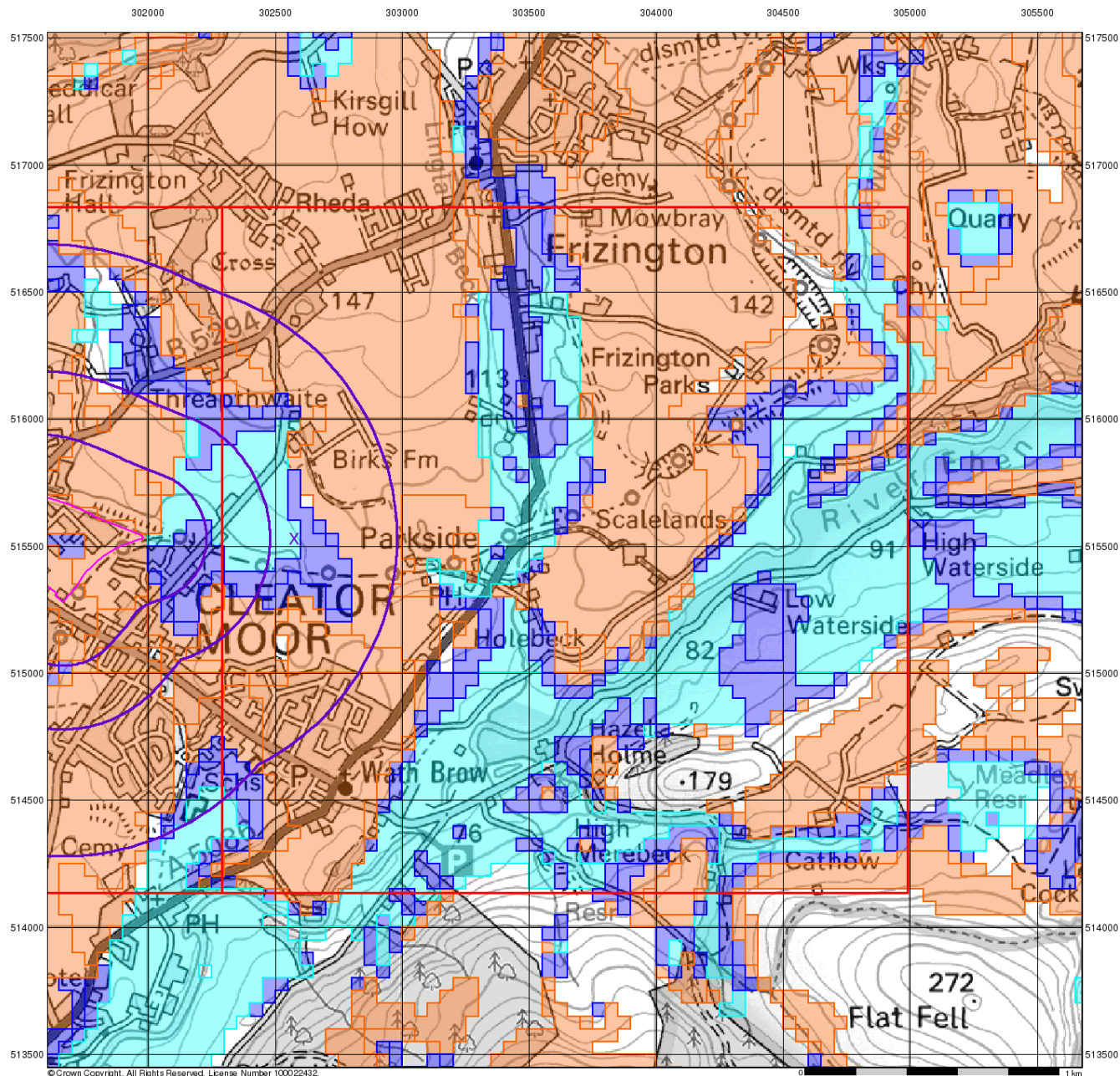
Order Number: 224379683_1_1
 Customer Ref: A114312
 National Grid Reference: 302570, 515530
 Slice: B
 Site Area (Ha): 15.46
 Search Buffer (m): 1000

Site Details

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Landmark
 INFORMATION GROUP

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BGS Flood GFS Data

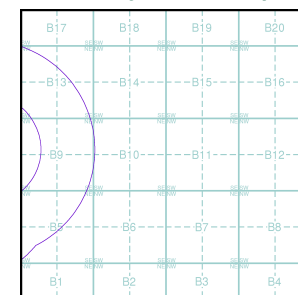
General

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

Agency and Hydrological (Flood)

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

Site Sensitivity Context Map - Slice B



Order Details

Order Number: 224379683_1_1
 Customer Ref: A114312
 National Grid Reference: 302570, 515530
 Slice: B
 Site Area (Ha): 15.46
 Search Buffer (m): 1000

Site Details

Leconfield Industrial Estate, CLEATOR MOOR, CA25 5QQ

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 INFORMATION GROUP

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Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

224379683_1_1

Customer Reference:

A114312

National Grid Reference:

302570, 515530

Slice:

B

Site Area (Ha):

15.46

Search Buffer (m):

1000

Site Details:

Leconfield Industrial Estate

CLEATOR MOOR

CA25 5QQ

Client Details:

Ms C Martin

WYG Environment Planning Transport Ltd

Quay West

Trafford Park Road

Salford Quays

Manchester

M17 1HH



Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	6
Hazardous Substances	-
Geological	7
Industrial Land Use	13
Sensitive Land Use	-
Data Currency	15
Data Suppliers	19
Useful Contacts	20

Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination.

For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.

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

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Report Version v53.0

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Summary

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
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Potential for Landslide Ground Stability Hazards	pg 12	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 12	Yes	Yes	n/a	n/a
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Summary

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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	0	1	302100 515700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	0	1	301750 515529
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	0	1	302000 515529
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	0	1	301800 515300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	0	1	301700 515850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	B9NW (SW)	22	1	302574 515529
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	33	1	301700 515200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B9NW (W)	38	1	302300 515500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	122	1	302000 515300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	132	1	302050 515400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	137	1	302050 515700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	179	1	302200 515150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	227	1	302050 515050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	230	1	301700 515050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	231	1	301650 515050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	242	1	302100 515300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	280	1	301700 515000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	281	1	301650 515000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	283	1	302050 515000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	286	1	302250 515350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B9SW (SW)	302	1	302300 515400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NW)	308	1	301850 515950



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	(NW)	312	1	302250 515800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B9SW (SW)	320	1	302300 515350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B9NW (E)	347	1	302600 515529
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	353	1	302200 515200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(NW)	354	1	302200 515850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B9SW (SW)	369	1	302350 515350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B9SW (SW)	391	1	302450 515300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B5NW (SW)	411	1	302300 515050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NW)	425	1	302150 515950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NW)	485	1	302150 516100
1	Discharge Consents Operator: United Utilities Water Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Ennerdale Rd, Cleator Moor, Copeland, Cumbria Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01cop0023 Permit Version: 1 Effective Date: 15th September 1993 Issued Date: Not Supplied Revocation Date: 15th September 1993 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Kirting Beck Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	B5NW (S)	780	2	302340 514840
2	Local Authority Pollution Prevention and Controls Name: Ross & Mason Location: Brewery Yard, CLEATOR MOOR, Cumbria, CA25 5HL Authority: Copeland Borough Council, Environmental Health Department Permit Reference: CBC/95/002 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input Status: Authorisation revoked Positional Accuracy: Manually positioned to the address or location	B9NW (NW)	391	3	302339 515682
	Nearest Surface Water Feature	B9NW (W)	301	-	302291 515572
3	Pollution Incidents to Controlled Waters Property Type: Tip Drainage Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Tip Leachate Note: Tributary Nor Beck Incident Date: 19th October 1993 Incident Reference: 93210117 Catchment Area: Ehen Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	B9NW (W)	323	2	302300 515500



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Cumbria Authority: Environment Agency, North West Region Pollutant: Not Given Note: North Beck; None Pollution Found Incident Date: 17th June 1991 Incident Reference: 91210045 Catchment Area: Ehen Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	B9NW (W)	329	2	302300 515600
5	Pollution Incidents to Controlled Waters Property Type: Connection To Surface Drains Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Vehicle Washings And De Waxing Note: Ehen Tributary; Incorrect Connection Incident Date: 24th February 1994 Incident Reference: 94210022 Catchment Area: Ehen Receiving Water: Not Given Cause of Incident: Deliberate Disposal To Drain Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	B5SW (S)	795	2	302300 514800
6	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Waste Oil Note: Not Supplied Incident Date: 15th September 1994 Incident Reference: 94210125 Catchment Area: Ehen Receiving Water: Not Given Cause of Incident: Land Runoff Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	B5SW (S)	982	2	302500 514700
7	Water Abstractions Operator: J Charlton & Sons Licence Number: 2774004002 Permit Version: 100 Location: Well At Birks Farm, Cleator Moor, Cumbria Authority: Environment Agency, North West Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 6 Yearly Rate (m3): 2273 Details: Birks Farm, Cleator Moor Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 16th December 1965 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	B13SE (N)	916	2	302700 516100
	Water Abstractions Operator: Jacques Licence Number: 2774003011 Permit Version: 100 Location: River Ehen At Beck Side Authority: Environment Agency, North West Region Abstraction: Aquaculture: Fish Farm/Cress Pond Throughflow Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 1140 Yearly Rate (m3): 416100 Details: Land & Premises At Beck Side Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 14th September 1994 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	B1SE (S)	1571	2	302700 514100



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - Low Vulnerability Combined Vulnerability: Low Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: <40% Superficial Patchiness: >90% Superficial Thickness: >10m Superficial Recharge: Low	(W)	0	4	302000 515529
	Groundwater Vulnerability - Soluble Rock Risk Classification: Significant Risk - Low Possibility	(W)	0	4	302000 515529
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	B9NW (SW)	0	4	302574 515529
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	B9NW (SW)	0	4	302574 515529
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	B9NW (W)	0	2	302480 515544
	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	B9NW (W)	201	2	302480 515552
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
8	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 211.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nor Beck Catchment Name: Ehen-Calder Primacy: 1	B9SW (W)	301	5	302376 515455
9	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 492.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	B9NW (NW)	302	5	302395 515726
10	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 181.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	B13SW (N)	721	5	302570 515948
11	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 23.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	B13SW (N)	722	5	302570 515948



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	B13SE (N)	866	5	302657 516074
13	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 49.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	B13SE (N)	866	5	302657 516074
14	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 128.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	B13NW (N)	872	5	302316 516345
15	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 340.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	B5SW (S)	937	5	302390 514653
16	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 16.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	B9SE (SE)	950	5	302907 515333
17	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 388.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	B9SE (SE)	966	5	302923 515330
18	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	B13NW (N)	990	5	302411 516431
19	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 61.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	B13NW (N)	995	5	302472 516418



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Copeland Borough Council - Has supplied landfill data		0	3	302574 515529
	Local Authority Landfill Coverage Name: Cumbria County Council - Had landfill data but passed it to the relevant environment agency		0	6	302574 515529
20	Potentially Infilled Land (Non-Water) Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	B9SW (SW)	301	-	302354 515381
21	Potentially Infilled Land (Non-Water) Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	B9SW (SW)	426	-	302390 515421
22	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1972	B5NW (S)	729	-	302547 514997
23	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	B9SE (SE)	772	-	302736 515387
24	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	B9SE (SE)	857	-	302807 515315
25	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	B13SE (NE)	888	-	302758 515959
26	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	B9NE (NE)	949	-	302889 515804



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Dinantian Rocks (Undifferentiated)	B9NW (SW)	0	1	302574 515529
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	B9NW (W)	0	1	302500 515529
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	B9SW (S)	38	1	302565 515424
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	B9NW (W)	290	1	302374 515500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	B9SW (S)	354	1	302573 515459
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	B9SW (S)	385	1	302465 515267
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	B5NW (SW)	393	1	302323 515007



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	B9NW (SW)	397	1	302574 515529
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	B9SW (S)	554	1	302479 515262
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	B9NE (NE)	637	1	302649 515657
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	B9NE (NE)	645	1	302689 515600
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 200 - 300 mg/kg Nickel 15 - 30 mg/kg Concentration:	B5NW (S)	745	1	302532 515000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 200 - 300 mg/kg Nickel 15 - 30 mg/kg Concentration:	B5NW (S)	768	1	302574 515000



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	B9NE (NE)	775	1	302797 515651
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	B13SW (N)	796	1	302625 516000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	B9NE (NE)	841	1	302860 515712
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	B9SE (SE)	842	1	302802 515356
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	B13SE (N)	842	1	302680 516000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	B9SE (SE)	843	1	302812 515403



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	B9NE (NE)	900	1	302914 515740
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	B9SE (SE)	908	1	302815 515180
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	B9NE (NE)	940	1	302908 515775
27	BGS Recorded Mineral Sites Site Name: Aldby Iron Pit Location: Cleator Moor, Cumberland Source: British Geological Survey, National Geoscience Information Service Reference: 253029 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Not Supplied Geology: ! Commodity: Iron ore - Hematite Positional Accuracy: Located by supplier to within 10m	B9SW (SW)	423	1	302386 515417
28	BGS Recorded Mineral Sites Site Name: Aldby Quarry Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140659 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Frizington Limestone Formation Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	B9SW (SW)	462	1	302320 515220
29	BGS Recorded Mineral Sites Site Name: Aldby Quarry Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140644 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Frizington Limestone Formation Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	B5NW (S)	600	1	302410 515114



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
30	BGS Recorded Mineral Sites Site Name: Birks Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140658 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Eskett Limestone Formation Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	B9NE (N)	718	1	302662 515752
31	BGS Recorded Mineral Sites Site Name: Aldby Brick Field Location: Cleator Moor, Cumberland Source: British Geological Survey, National Geoscience Information Service Reference: 253028 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary, Devensian Geology: Till, Devensian Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	B5NW (S)	782	1	302526 514973
32	BGS Recorded Mineral Sites Site Name: Aldby Brick Field Location: Cleator Moor, Cumberland Source: British Geological Survey, National Geoscience Information Service Reference: 253027 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary, Devensian Geology: Till, Devensian Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	B5NW (S)	795	1	302486 514920
33	BGS Recorded Mineral Sites Site Name: Birks Iron Ore Mine, Pit No. 7 Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140670 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Not Available Geology: ! Commodity: Iron ore - Hematite Positional Accuracy: Located by supplier to within 10m	B9SE (SE)	840	1	302809 515404
34	BGS Recorded Mineral Sites Site Name: Holebeck Iron Ore Mine, Pit No. 4 Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140666 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Not Available Geology: ! Commodity: Iron ore - Hematite Positional Accuracy: Located by supplier to within 10m	B9SE (SE)	933	1	302866 515243
35	BGS Recorded Mineral Sites Site Name: Birks Iron Ore Mine No. 5 Pit Location: Cleator Moor, Cumberland Source: British Geological Survey, National Geoscience Information Service Reference: 253033 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Not Supplied Geology: ! Commodity: Iron ore - Hematite Positional Accuracy: Located by supplier to within 10m	B9NE (NE)	970	1	302927 515734



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	B9NW (SW)	0	7	302574 515529
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	B9NW (W)	0	-	302500 515529
	Mining Instability Mining Evidence: Conclusive Iron Ore Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	B9NW (SW)	0	-	302574 515529
	Mining Instability Mining Evidence: Conclusive Iron Ore Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	B9NW (W)	0	-	302500 515529
	Non Coal Mining Areas of Great Britain Risk: Likely Source: British Geological Survey, National Geoscience Information Service	B9SW (SW)	203	1	302358 515400
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	(NW)	243	1	302161 515765
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B9NW (SW)	0	1	302574 515529
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B9SW (S)	21	1	302573 515459
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B9NW (SW)	0	1	302574 515529
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	B9SW (S)	21	1	302573 515459
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B9NW (SW)	0	1	302574 515529
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B9NW (SW)	0	1	302574 515529
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B9NW (SW)	0	1	302574 515529
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	B9SW (S)	21	1	302573 515459
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B9NW (SW)	0	1	302574 515529
	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	B9NW (SW)	0	1	302574 515529
	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	B9NW (SW)	0	1	302574 515529



Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
36	Contemporary Trade Directory Entries Name: Upholstery Service Location: Plot 2 The Old Brewery, Birks Road, Cleator Moor, CA25 5HU Classification: Seating Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	B9NW (W)	351	-	302315 515631
37	Contemporary Trade Directory Entries Name: Rudhalls Location: Birks Road, Cleator Moor, Cumbria, CA25 5HU Classification: Domestic Appliances - Servicing, Repairs & Parts Status: Inactive Positional Accuracy: Automatically positioned to the address	B9NW (NW)	357	-	302310 515666
37	Contemporary Trade Directory Entries Name: Ross & Mason Location: Birks Road, Cleator Moor, Cumbria, CA25 5HU Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	B9NW (NW)	395	-	302342 515686
38	Contemporary Trade Directory Entries Name: S H Pickthall Location: Aldby Lane, Cleator Moor, Cumbria, CA25 5DH Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	B5NW (S)	687	-	302375 514971
39	Contemporary Trade Directory Entries Name: Premier Pallets Location: Ennerdale Rd, Cleator Moor, Cumbria, CA25 5DH Classification: Pallets, Crates & Packing Cases Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	B5NW (S)	804	-	302343 514815
40	Points of Interest - Commercial Services Name: Ross & Mason Location: Birks Road, Cleator Moor, CA25 5HU Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	B9NW (NW)	391	8	302340 515681
40	Points of Interest - Commercial Services Name: Ross & Mason Location: Birks Road, Cleator Moor, CA25 5HU Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	B9NW (NW)	395	8	302342 515686
41	Points of Interest - Manufacturing and Production Name: Wks Location: CA25 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	B9NW (NW)	357	8	302312 515659
41	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	B9NW (NW)	359	8	302313 515662
41	Points of Interest - Manufacturing and Production Name: Wks Location: CA25 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	B9NW (NW)	406	8	302361 515666
41	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	B9NW (NW)	409	8	302363 515671
41	Points of Interest - Manufacturing and Production Name: Wks Location: CA25 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	B9NW (NW)	418	8	302365 515689



Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
41	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	B9NW (NW)	421	8	302367 515693
42	Points of Interest - Manufacturing and Production Name: Sheep Wash Location: CA25 Category: Farming Class Code: Sheep Dips and Washes Positional Accuracy: Positioned to an adjacent address or location	B5NW (SW)	618	8	302373 515056
42	Points of Interest - Manufacturing and Production Name: Tank Location: CA25 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	B5NW (SW)	638	8	302360 515020
43	Points of Interest - Manufacturing and Production Name: Tank Location: CA25 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	B13SE (N)	746	8	302662 515830
43	Points of Interest - Manufacturing and Production Name: Quarry (Disused) Location: CA25 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	B9NE (NE)	751	8	302688 515777
44	Points of Interest - Public Infrastructure Name: Refuse Tip (Disused) Location: CA25 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	B9SE (SE)	879	8	302849 515407
45	Points of Interest - Public Infrastructure Name: Spoil Heap (Disused) Location: CA25 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	B9SE (SE)	938	8	302872 515246



Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Copeland Borough Council - Environmental Health Department	October 2014	Annual Rolling Update
Discharge Consents Environment Agency - North West Region	July 2019	Quarterly
Enforcement and Prohibition Notices Environment Agency - North West Region	March 2013	Annual Rolling Update
Integrated Pollution Controls Environment Agency - North West Region	October 2008	Variable
Integrated Pollution Prevention And Control Environment Agency - North West Region	July 2019	Quarterly
Local Authority Integrated Pollution Prevention And Control Copeland Borough Council - Environmental Health Department	February 2015	Variable
Local Authority Pollution Prevention and Controls Copeland Borough Council - Environmental Health Department	February 2015	Not Applicable
Local Authority Pollution Prevention and Control Enforcements Copeland Borough Council - Environmental Health Department	February 2015	Variable
Nearest Surface Water Feature Ordnance Survey	September 2019	
Pollution Incidents to Controlled Waters Environment Agency - North West Region	January 2000	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - North West Region	March 2013	Annual Rolling Update
Prosecutions Relating to Controlled Waters Environment Agency - North West Region	March 2013	Annual Rolling Update
Registered Radioactive Substances Environment Agency - North West 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 West Region - North Area	July 2019	Quarterly
Water Abstractions Environment Agency - North West Region	July 2019	Quarterly
Water Industry Act Referrals Environment Agency - North West Region	October 2017	Quarterly
Groundwater Vulnerability Map Environment Agency - Head Office	June 2018	As notified
Groundwater Vulnerability - Soluble Rock Risk Environment Agency - Head Office	June 2018	As notified
Bedrock Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Superficial Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Source Protection Zones Environment Agency - Head Office	October 2019	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	August 2019	Quarterly



Agency & Hydrological	Version	Update Cycle
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	August 2019	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	August 2019	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	August 2019	Quarterly
Flood Defences Environment Agency - Head Office	August 2019	Quarterly
OS Water Network Lines Ordnance Survey	July 2019	Quarterly
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	October 2013	Annually
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	October 2013	Annually
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	October 2013	Annually
Surface Water Suitability Environment Agency - Head Office	October 2013	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	Annually
Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Environment Agency - Head Office	October 2019	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - North West Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - North West Region - North Area	July 2018	Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - North West Region - North Area	July 2019	Quarterly
Local Authority Landfill Coverage Copeland Borough Council - Environmental Health Department Cumbria County Council - Economy And Environment Department	May 2000 May 2000	Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Copeland Borough Council - Environmental Health Department Cumbria County Council - Economy And Environment Department	May 2000 May 2000	Not Applicable Not Applicable
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	Not Applicable
Registered Landfill Sites Environment Agency - North West Region - North Area	March 2003	Not Applicable
Registered Waste Transfer Sites Environment Agency - North West Region - North Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency - North West Region - North Area	March 2003	Not Applicable



Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	April 2018	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Copeland Borough Council - Planning Cumbria County Council - Development Control Lake District National Park	February 2016 February 2016 February 2016	Variable Variable Variable
Planning Hazardous Substance Consents Copeland Borough Council - Planning Cumbria County Council - Development Control Lake District National Park	February 2016 February 2016 February 2016	Variable Variable Variable
Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	October 2015	Annually
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	October 2019	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	July 2019	Quarterly
Fuel Station Entries Catalist Ltd - Experian	September 2019	Quarterly
Gas Pipelines National Grid	July 2014	
Points of Interest - Commercial Services PointX	September 2019	Quarterly
Points of Interest - Education and Health PointX	September 2019	Quarterly
Points of Interest - Manufacturing and Production PointX	September 2019	Quarterly
Points of Interest - Public Infrastructure PointX	September 2019	Quarterly
Points of Interest - Recreational and Environmental PointX	September 2019	Quarterly
Underground Electrical Cables National Grid	December 2015	
Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	August 2018	Bi-Annually
Areas of Outstanding Natural Beauty Natural England	June 2019	Bi-Annually
Environmentally Sensitive Areas Natural England	January 2017	
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	March 2019	Bi-Annually
Marine Nature Reserves Natural England	July 2019	Bi-Annually
National Nature Reserves Natural England	July 2019	Bi-Annually
National Parks Natural England	April 2017	Bi-Annually
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	October 2015	
Ramsar Sites Natural England	April 2019	Bi-Annually
Sites of Special Scientific Interest Natural England	March 2019	Bi-Annually
Special Areas of Conservation Natural England	June 2019	Bi-Annually
Special Protection Areas Natural England	April 2019	Bi-Annually
World Heritage Sites Historic England	July 2019	Bi-Annually

A selection of organisations who provide data within this report

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



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	Copeland Borough Council - Environmental Health Department P O Box 19, Council Offices, Catherine Street, Whitehaven, Cumbria, CA28 7NY	Telephone: 01946 852585 Fax: 01946 590123 Email: dev.env@copelandbc.gov.uk Website: www.copelandbc.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	Cumbria County Council - Economy And Environment Department Citadel Chambers, Citadel Row, Carlisle, Cumbria, CA3 8SG	Telephone: 01228 606718 Website: www.cumbria.gov.uk
7	The Coal Authority - Property Searches 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
8	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
9	Natural England County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
10	Historic England 1 Waterhouse Square, 138 - 142 Holborn, London, EC1N 2ST	Telephone: 0370 333 0607 Email: customers@historicengland.org.uk Website: www.historicengland.org.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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

Geology 1:50,000 Maps Legends

Artificial Ground and Landslip

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	MGR	Made Ground (Undivided)	Artificial Deposit	Not Supplied - Holocene
	WMGR	Infilled Ground	Artificial Deposit	Not Supplied - Holocene
	WGR	Worked Ground (Undivided)	Void	Not Supplied - Holocene
	LSGR	Landscaped Ground (Undivided)	Artificially Modified Ground	Not Supplied - Holocene
	FOUN	Foundered Strata	Unknown/Unclassified Entry	Not Supplied - Quaternary
	SLIP	Landslide Deposit	Unknown/Unclassified Entry	Not Supplied - Quaternary

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	SUPNM	Superficial Theme Not Mapped [For Digital Map Use Only]	Unknown/Unclassified Entry	Not Supplied - Not Supplied
	SUPNM	Superficial Theme Not Mapped [For Digital Map Use Only]	Water, Type Unspecified	Not Supplied - Not Supplied
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Not Supplied - Holocene
	TILLD	Till, Devensian	Diamicton	Not Supplied - Devensian
	GFDUD	Glaciofluvial Deposits, Devensian	Sand and Gravel	Not Supplied - Devensian
	GFICD	Glaciofluvial Ice Contact Deposits, Devensian	Sand and Gravel	Not Supplied - Devensian
	RTD1	River Terrace Deposits, 1	Clay, Sand and Gravel	Not Supplied - Quaternary
	ALF	Alluvial Fan Deposits	Sand and Gravel	Not Supplied - Quaternary
	PEAT	Peat	Peat	Not Supplied - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	SBS	St Bees Sandstone Member	Sandstone	Not Supplied - Early Triassic
	BK	Brockram	Breccia	Not Supplied - Cretaceous

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	WS	Whitehaven Sandstone Formation	Sandstone	Not Supplied - Westphalian
	MYTB	Millyeat Member	Mudstone, Sandstone and Limestone	Not Supplied - Westphalian
	PMCM	Pennine Middle Coal Measures Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	PLCM	Pennine Lower Coal Measures Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	LM1	First Limestone (Cumbria)	Limestone	Not Supplied - Namurian
	SMGP	Stainmore Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Namurian
	OBS	Orebank Sandstone	Sandstone	Not Supplied - Visean
	LM5	Fifth Limestone (Cumbria)	Limestone	Not Supplied - Visean
	ESKT	Eskett Limestone Formation	Limestone	Not Supplied - Visean
	FRLI	Frizington Limestone Formation	Limestone	Not Supplied - Visean
	MASA	Marsett Sandstone Formation	Conglomerate	Not Supplied - Tournaisian
	LDDMI	Lake District Devonian Minor Intrusion Suite	Andesite	Not Supplied - Early Devonian
	BUF	Buttermere Formation	Mudstone and Sandstone	Not Supplied - Tremadoc
		Faults		
		Rock Segments		



Geology 1:50,000 Maps

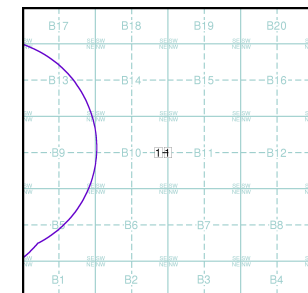
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published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

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

Geology 1:50,000 Maps Coverage

Map ID:	1
Map Sheet No:	028
Map Name:	Whitehaven
Map Date:	2004
Bedrock Geology:	Available
Superficial Geology:	Not Available
Artificial Geology:	Not Available
Faults:	Not Supplied
Landslip:	Not Available
Rock Segments:	Not Supplied

Geology 1:50,000 Maps - Slice B



Order Details:

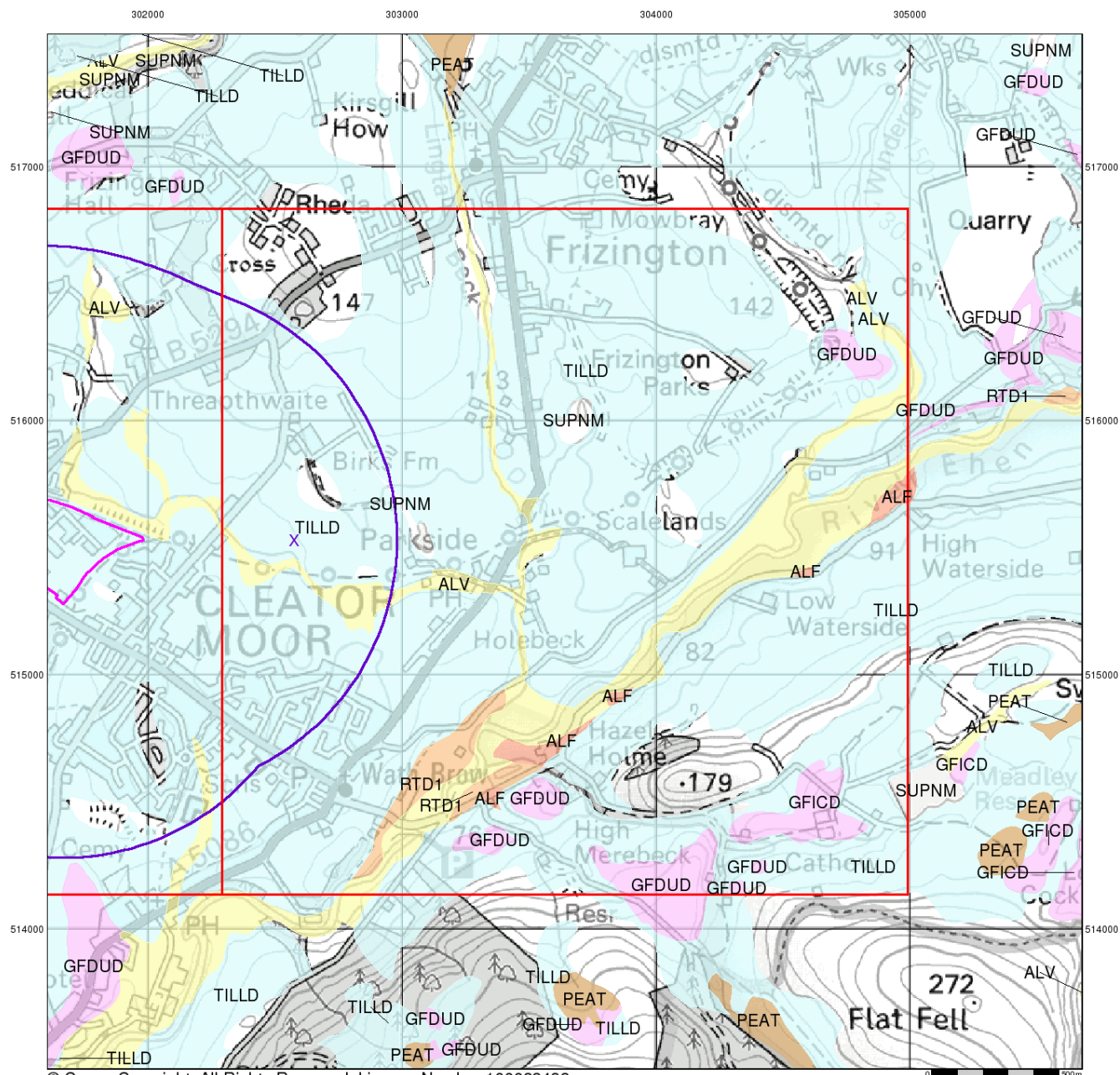
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Customer Reference:	A114312
National Grid Reference:	302570, 515530
Slice:	B
Site Area (Ha):	15.46
Search Buffer (m):	1000

Site Details:

Leconfield Industrial Estate, CLEATOR MOOR, CA25 5QQ

Landmark
INFORMATION GROUP

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



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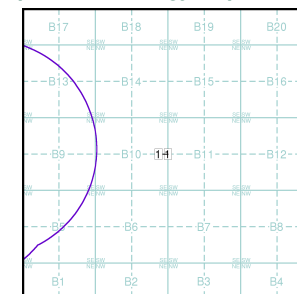
Superficial Geology

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

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

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

Superficial Geology Map - Slice B



Order Details:

Order Number: 224379683_1_1
 Customer Reference: A114312
 National Grid Reference: 302570, 515530
 Slice: B
 Site Area (Ha): 15.46
 Search Buffer (m): 1000

Site Details:

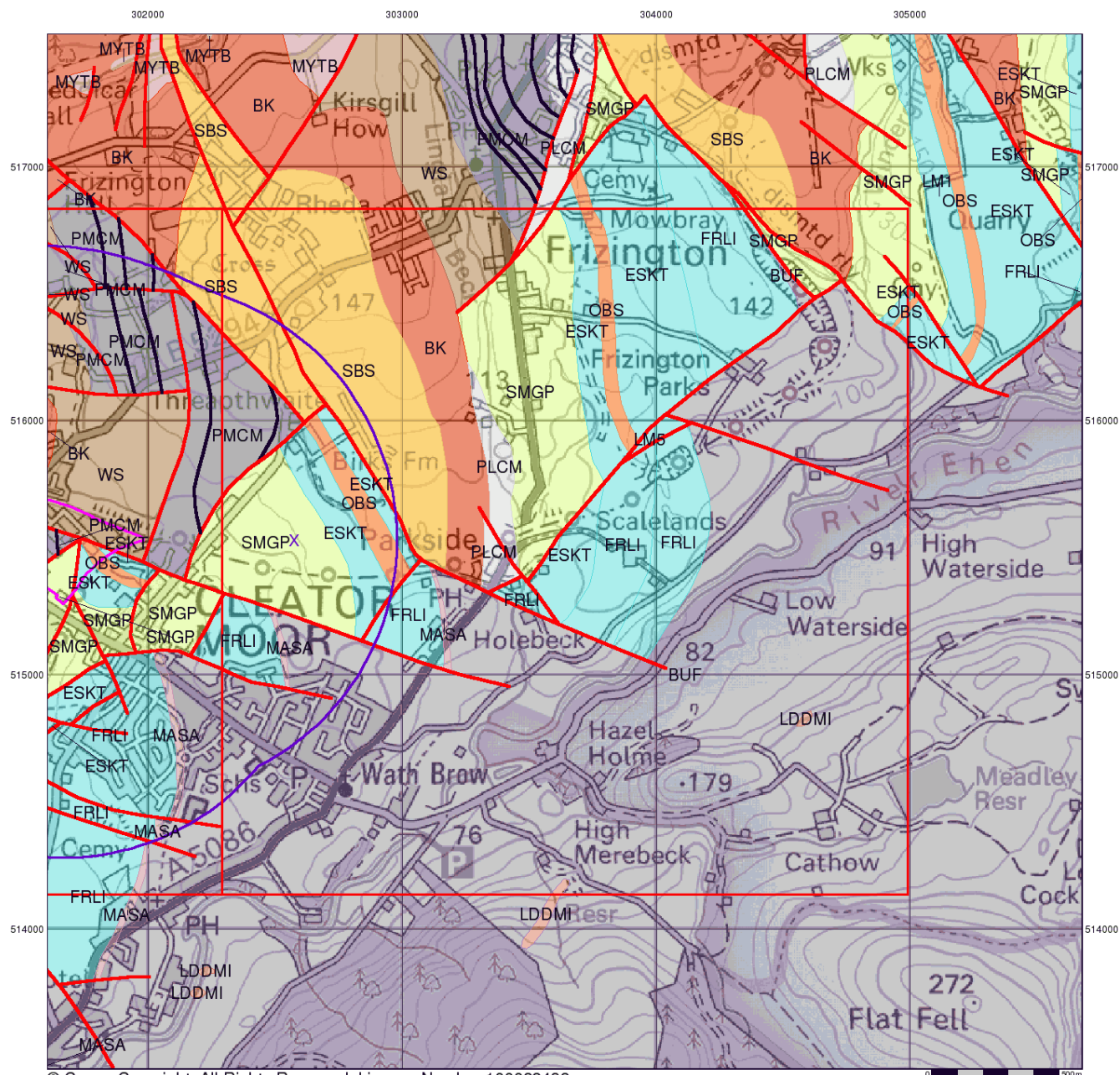
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v15.0 08-Nov-2019

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Bedrock and Faults

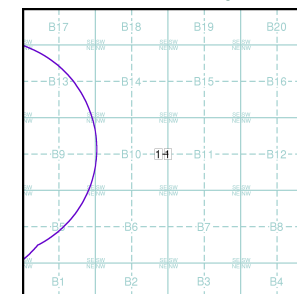
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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

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

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

Bedrock and Faults Map - Slice B



Order Details:

Order Number: 224379683_1_1
 Customer Reference: A114312
 National Grid Reference: 302570, 515530
 Slice: B
 Site Area (Ha): 15.46
 Search Buffer (m): 1000

Site Details:

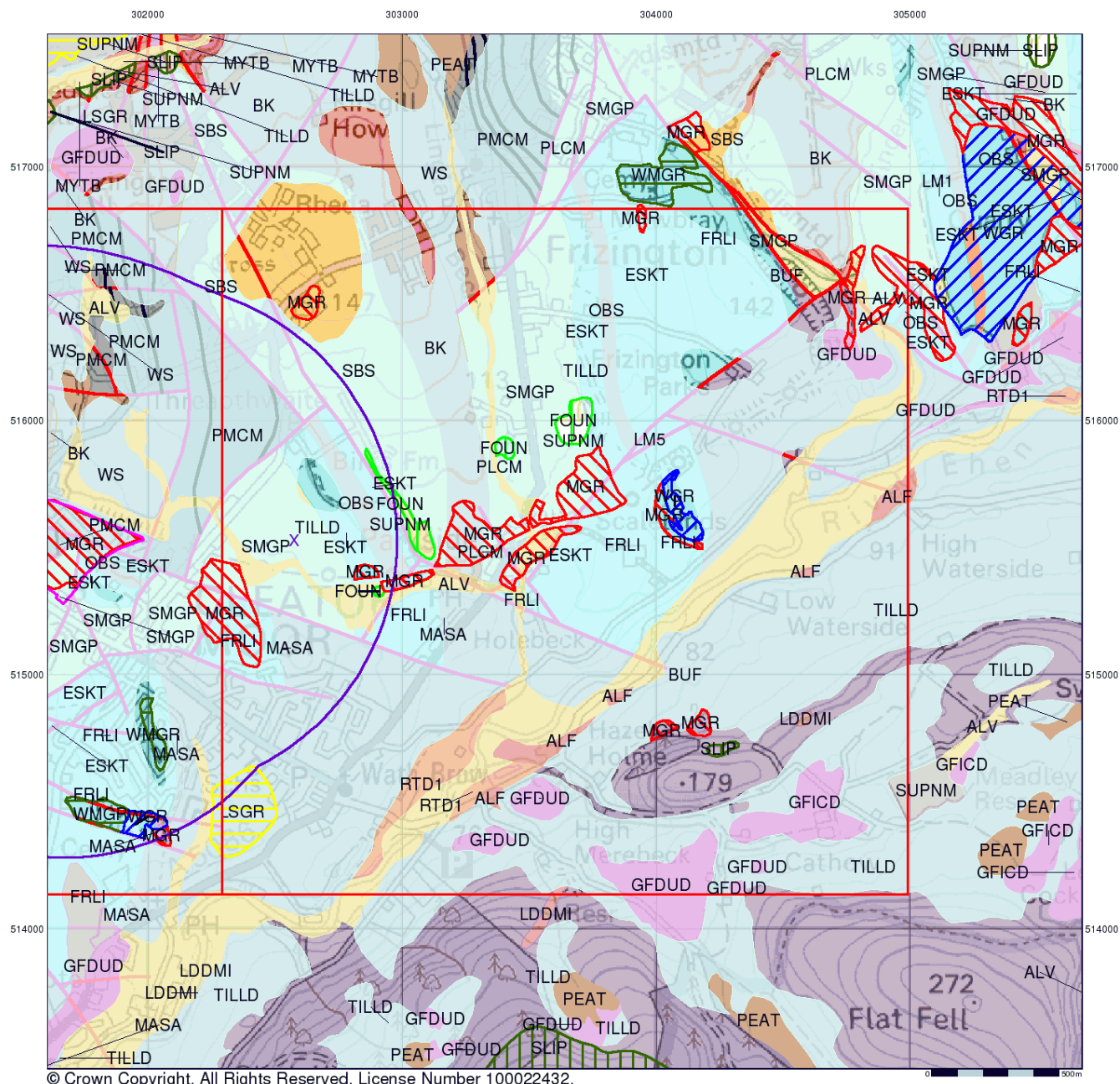
Leconfield Industrial Estate, CLEATOR MOOR, CA25 5QQ

Landmark
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 Fax: 0844 844 9951
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Combined Surface Geology

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

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

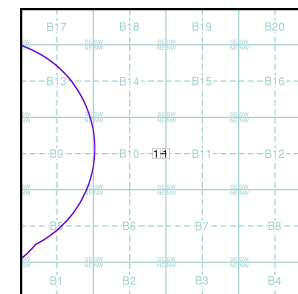
Additional Information

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

Contact

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

Combined Geology Map - Slice B



Order Details:

Order Number: 224379683_1_1
Customer Reference: A114312
National Grid Reference: 302570, 515530
Slice: B
Site Area (Ha): 15.46
Search Buffer (m): 1000

Site Details:

Leconfield Industrial Estate, CLEATOR MOOR, CA25 5QQ

Landmark
INFORMATION GROUP

Tel: 0844 844 9952
Fax: 0844 844 9951
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General

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

Agency and Hydrological

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

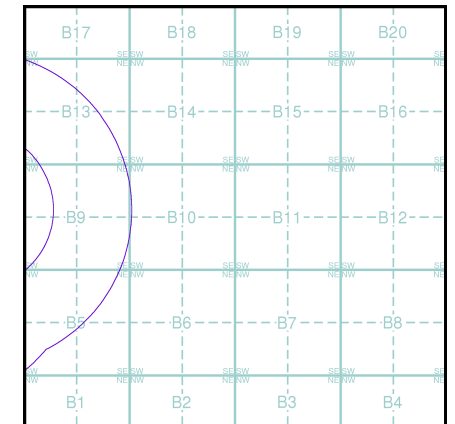
Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement
- BGS Recorded Mineral Site
- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Geological

- BGS Recorded Mineral Site

Site Sensitivity Map - Slice B



Order Details

Order Number: 224379683_1_1
Customer Ref: A114312
National Grid Reference: 302570, 515530
Slice: B
Site Area (Ha): 15.46
Search Buffer (m): 1000

Site Details

Leconfield Industrial Estate, CLEATOR MOOR, CA25 5QQ

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Industrial Land Use Map

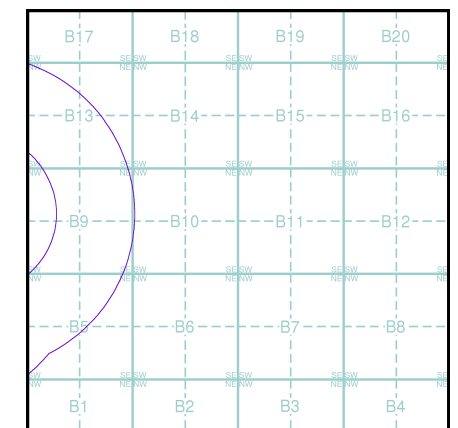
General

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

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- Gas Pipeline
- Points of Interest - Commercial Services
- Points of Interest - Education and Health
- Points of Interest - Manufacturing and Production
- Points of Interest - Public Infrastructure
- Points of Interest - Recreational and Environmental
- Underground Electrical Cables

Industrial Land Use Map - Slice B



Order Details

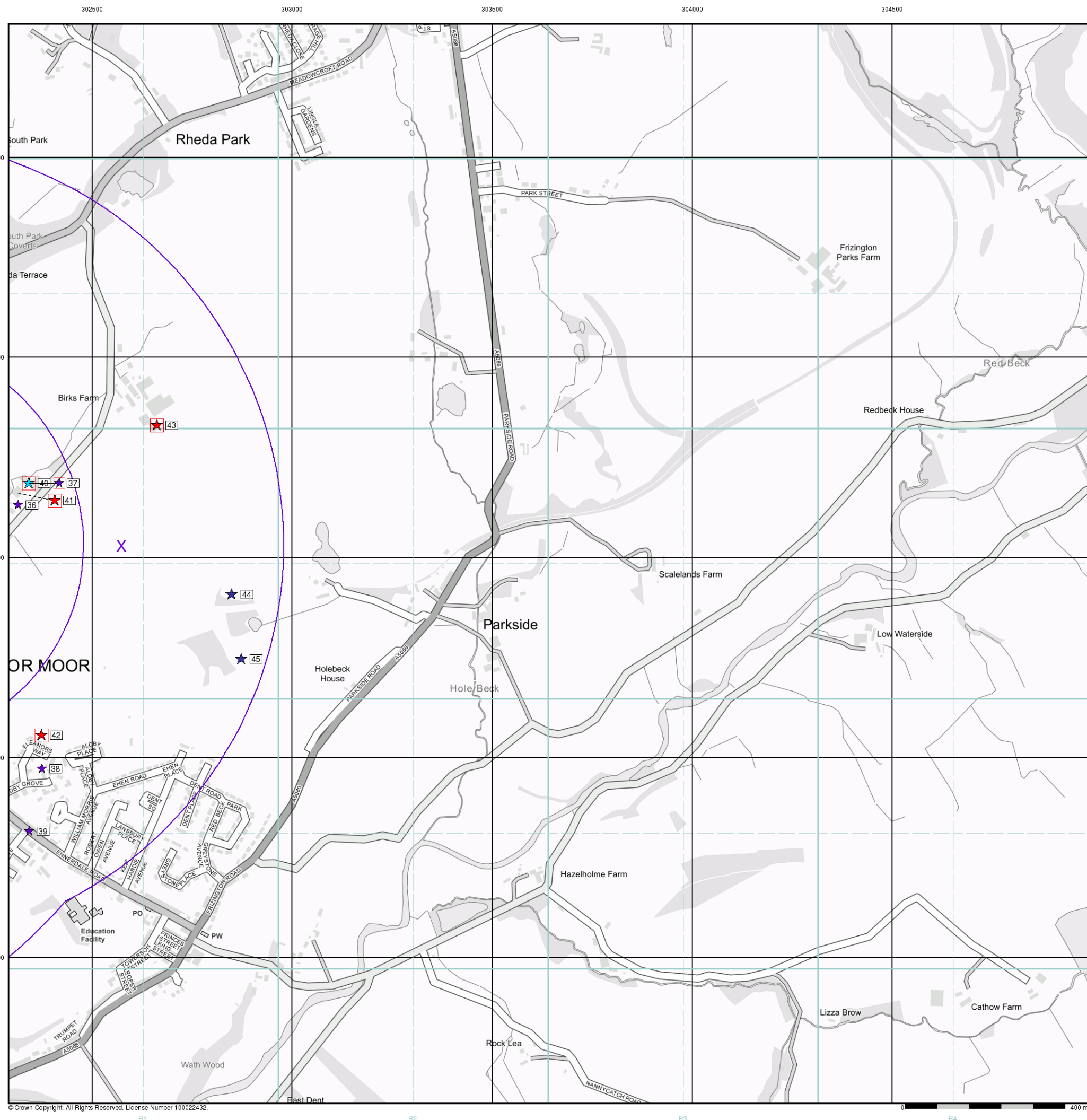
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Slice: B
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Search Buffer (m): 1000

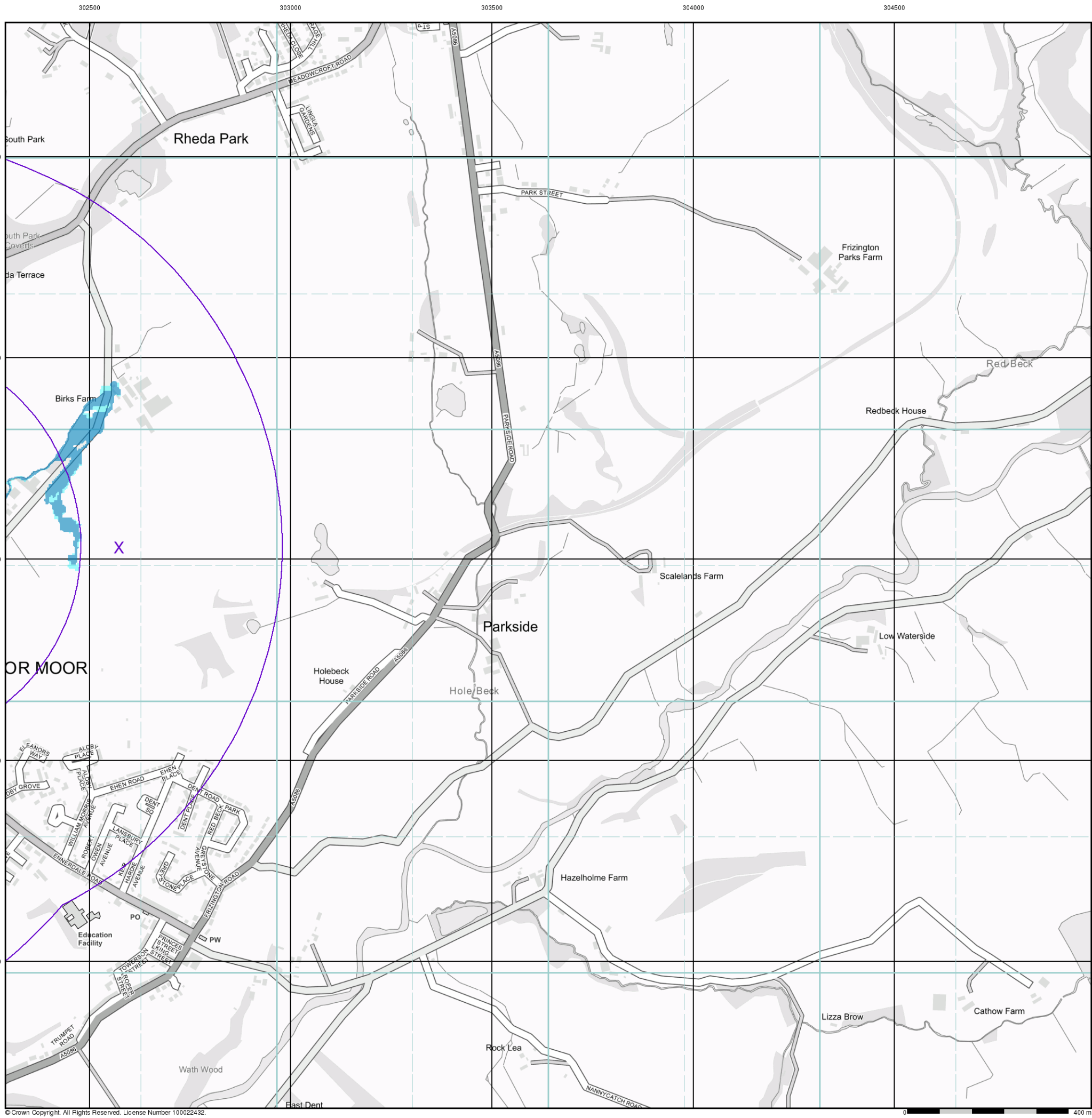
Site Details

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INFORMATION GROUP

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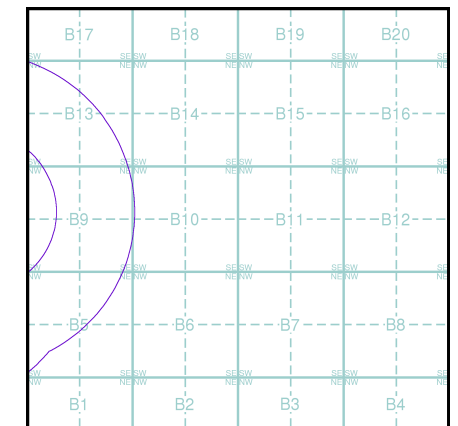
General

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

Agency and Hydrological (Flood)

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

Flood Map - Slice B



Order Details

Order Number: 224379683_1_1
Customer Ref: A114312
National Grid Reference: 302570, 515530
Slice: B
Site Area (Ha): 15.46
Search Buffer (m): 1000

Site Details

Leconfield Industrial Estate, CLEATOR MOOR, CA25 5QQ



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Web: www.envirocheck.co.uk



General

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

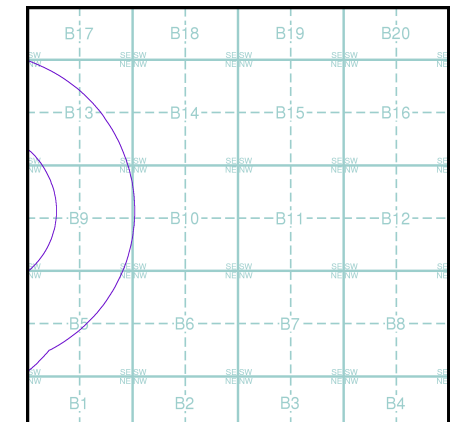
Agency and Hydrological (Boreholes)

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

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

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

Borehole Map - Slice B



Order Details

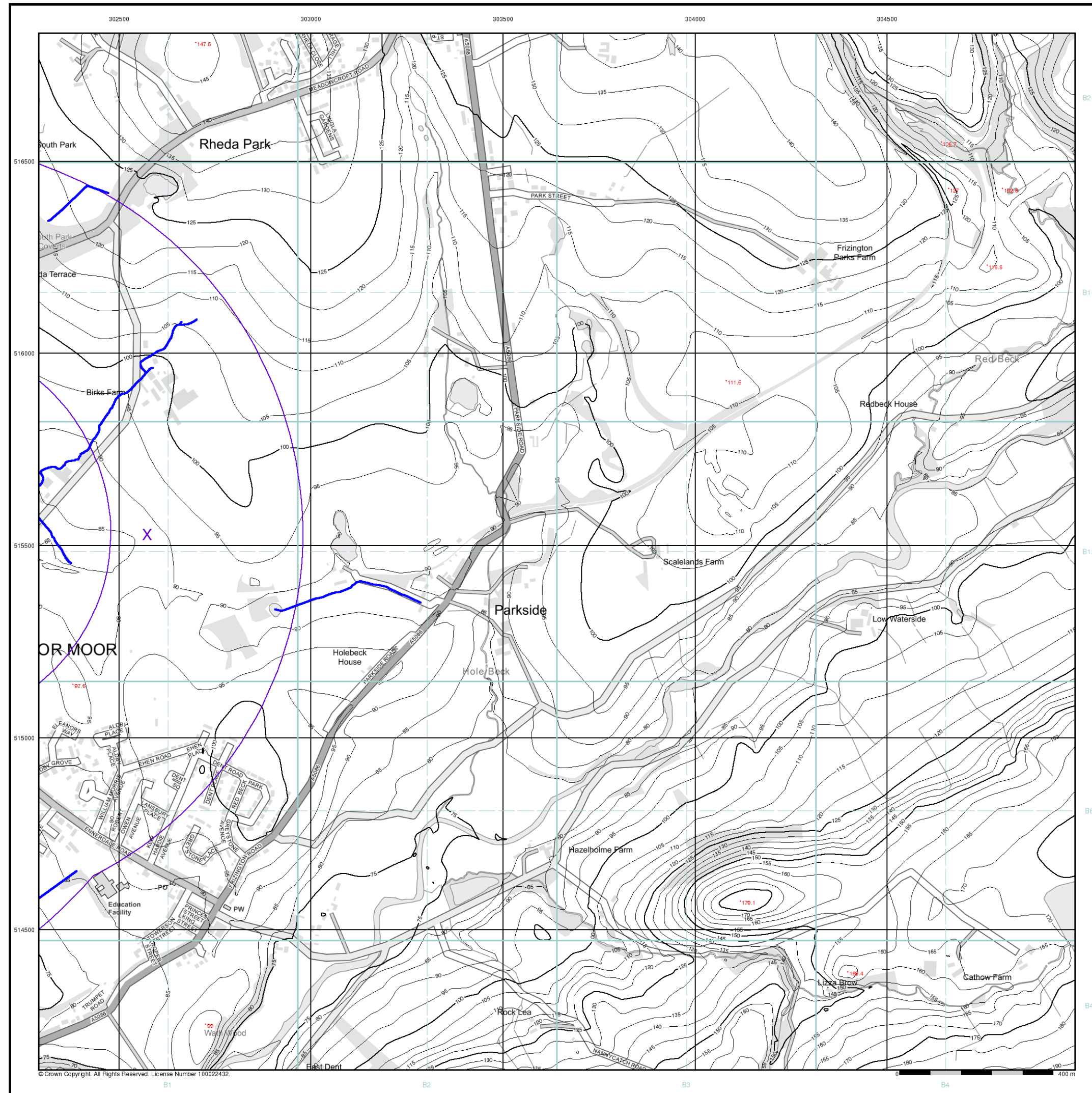
Order Number: 224379683_1_1
Customer Ref: A114312
National Grid Reference: 302570, 515530
Slice: B
Site Area (Ha): 15.46
Search Buffer (m): 1000

Site Details

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General

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

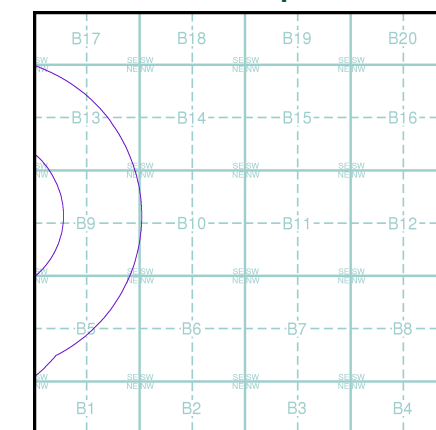
OS Water Network Data

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

Contours (height in meters)

- | | | |
|------------------|-----|-----------------|
| Standard Contour | MLW | Mean Low Water |
| Master Contour | MHW | Mean High Water |
| Spot Height | | |

OS Water Network Map - Slice B



Order Details

Order Number: 224379683_1_1
Customer Ref: A114312
National Grid Reference: 302570, 515530
Slice: B
Site Area (Ha): 15.46
Search Buffer (m): 1000

Site Details

Leconfield Industrial Estate, CLEATOR MOOR, CA25 5QQ

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General

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

Risk of Flooding from Surface Water

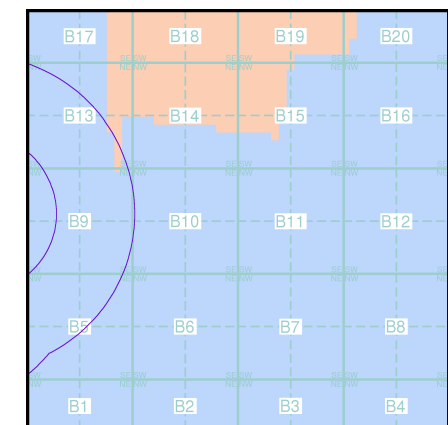
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

Suitability

See the suitability map below

- National to county
- County to town
- Town to street
- Street to parcels of land
- Property

EAN/RW Suitability Map - Slice B



Order Details

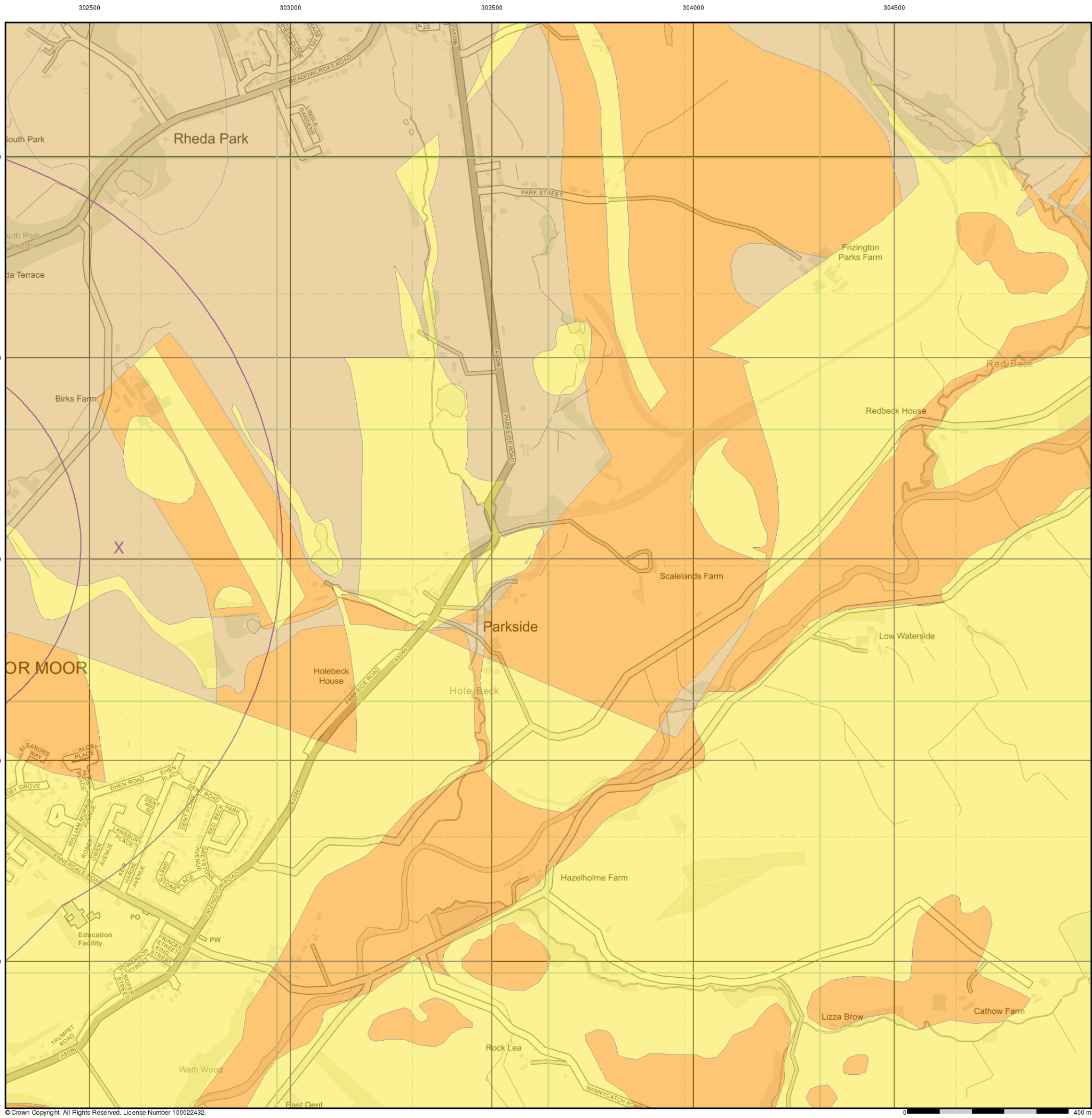
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National Grid Reference: 302570, 515530
Slice: B
Site Area (Ha): 15.46
Search Buffer (m): 1000

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Leconfield Industrial Estate, CLEATOR MOOR, CA25 5QQ

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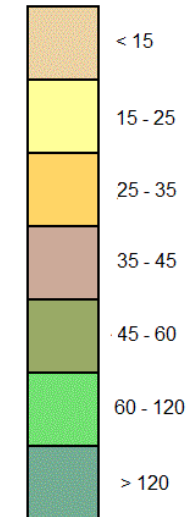


General

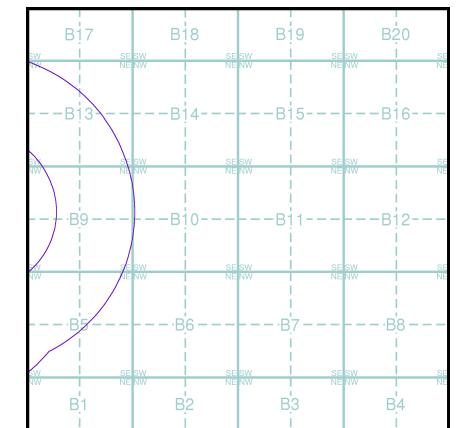
- Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg



Estimated Soil Chemistry Arsenic - Slice B



Order Details

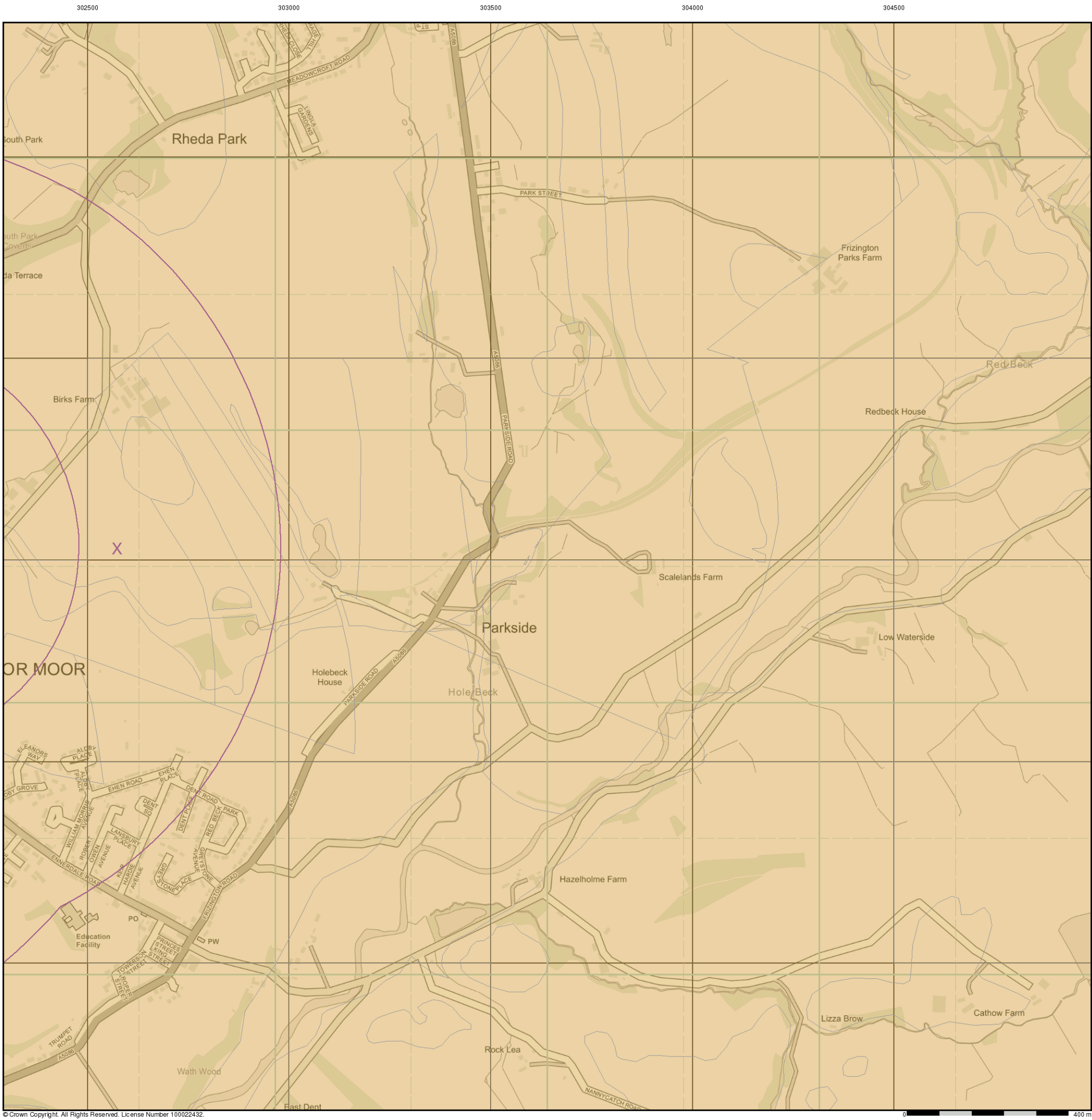
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Customer Ref: A114312
National Grid Reference: 302570, 515530
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Search Buffer (m): 1000

Site Details

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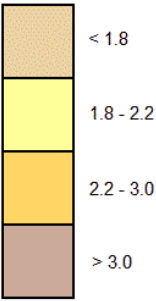


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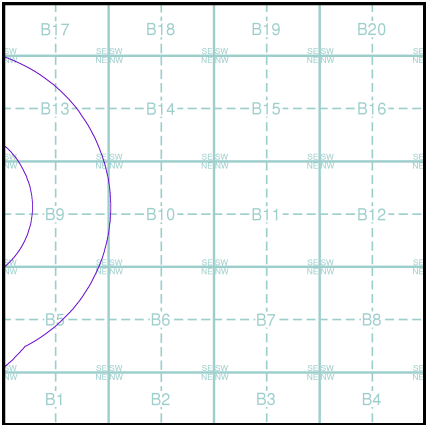
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg



Estimated Soil Chemistry Cadmium - Slice B



Order Details

Order Details: 224379683_1_1
Customer Ref: A114312
National Grid Reference: 302570, 515530
Slice: B
Site Area (Ha): 15.46
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Site Details

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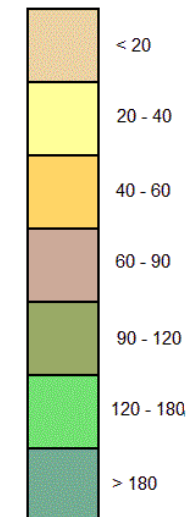


General

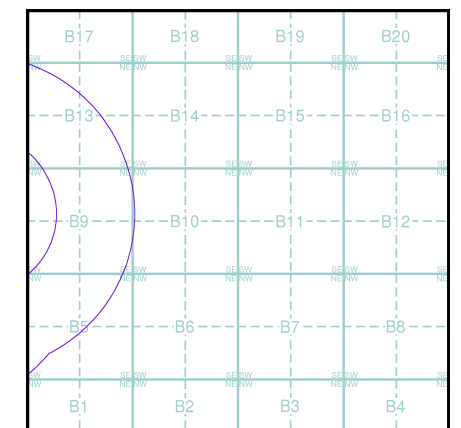
- Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg



Estimated Soil Chemistry Chromium - Slice B



Order Details

Order Details: 224379683_1_1
Customer Ref: A114312
National Grid Reference: 302570, 515530
Slice: B
Site Area (Ha): 15.46
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Site Details

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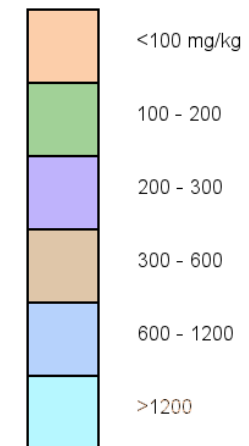


General

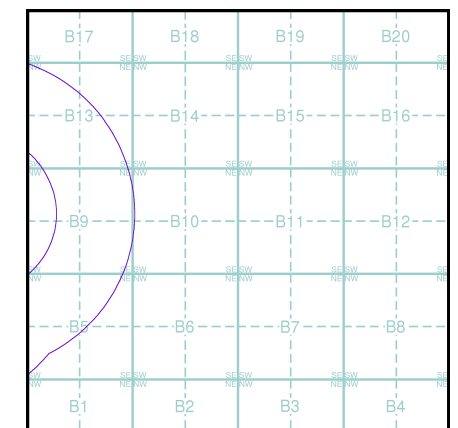
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg



Estimated Soil Chemistry Lead - Slice B



Order Details

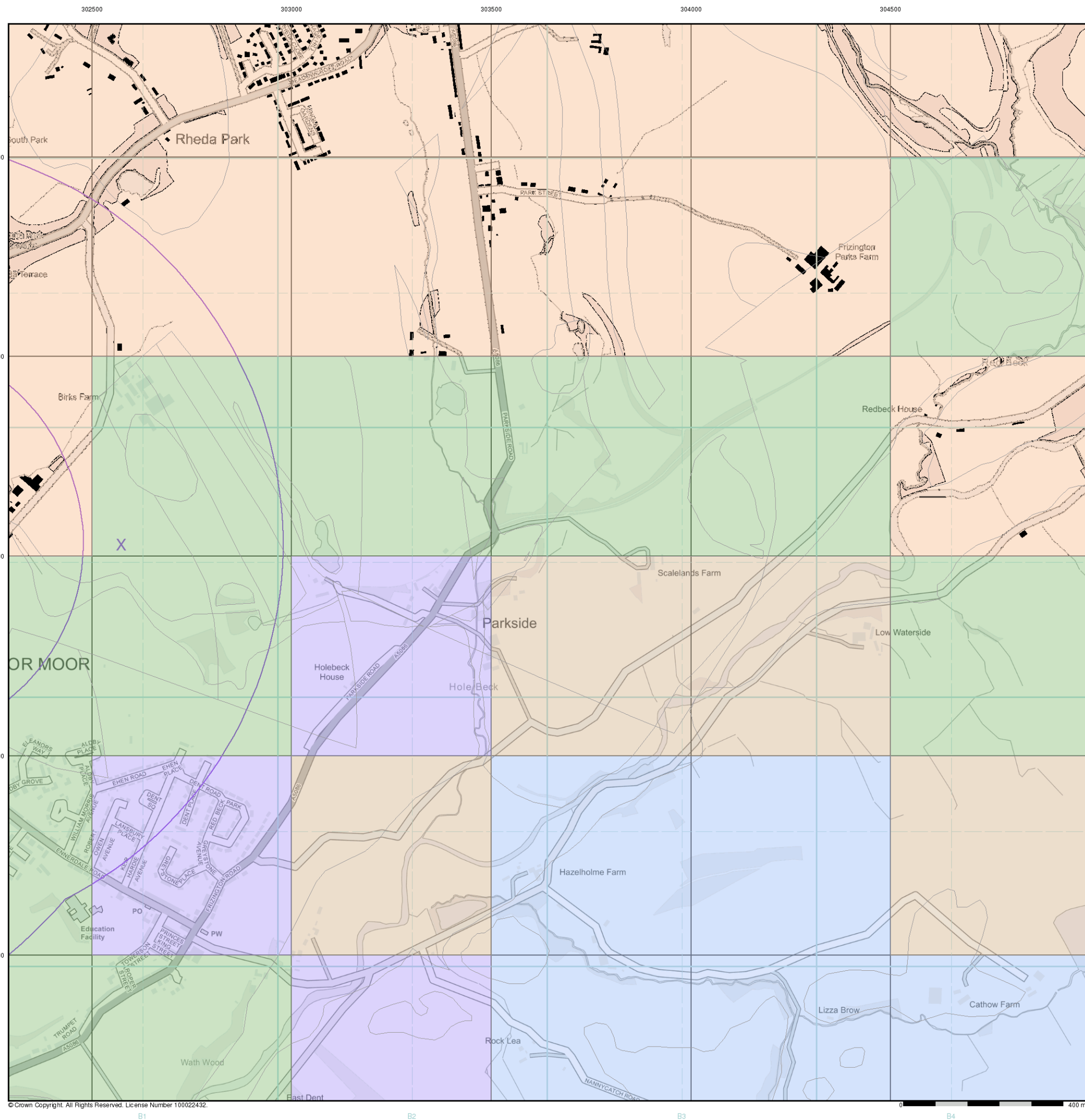
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Customer Ref: A114312
National Grid Reference: 302570, 515530
Slice: B
Site Area (Ha): 15.46
Search Buffer (m): 1000

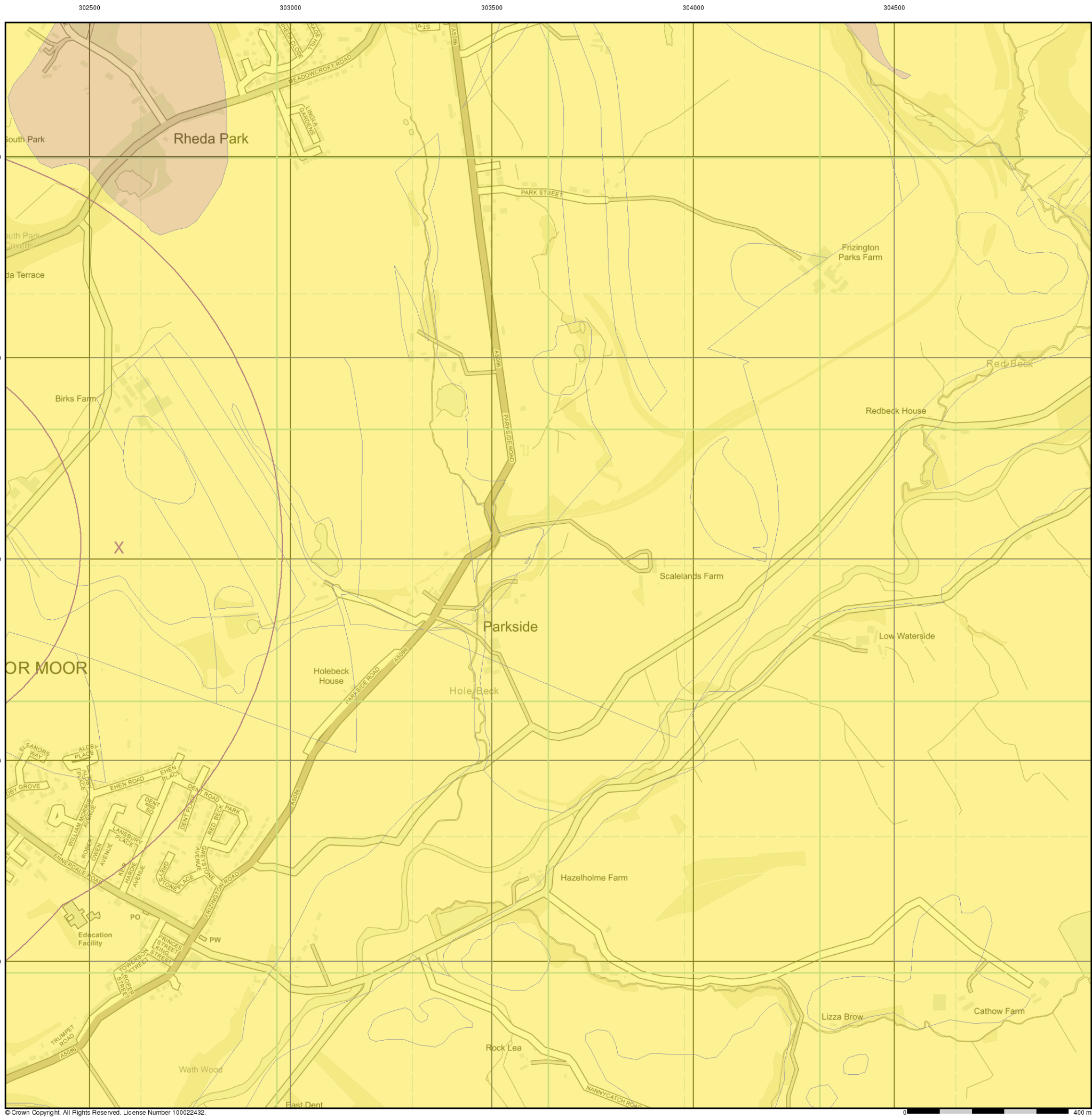
Site Details

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Web: www.envirocheck.co.uk



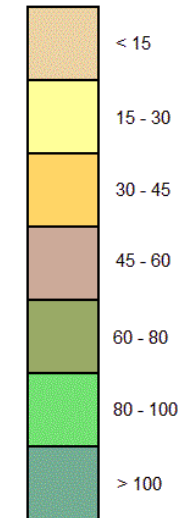


General

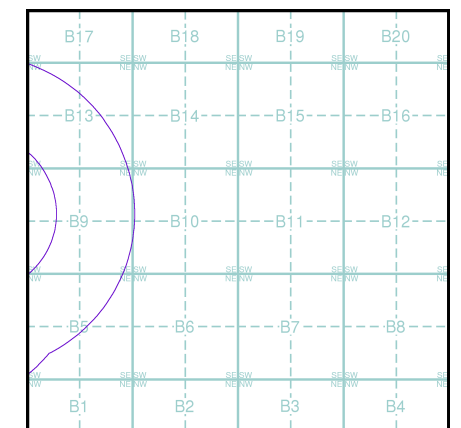
- Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg



Estimated Soil Chemistry Nickel - Slice B



Order Details

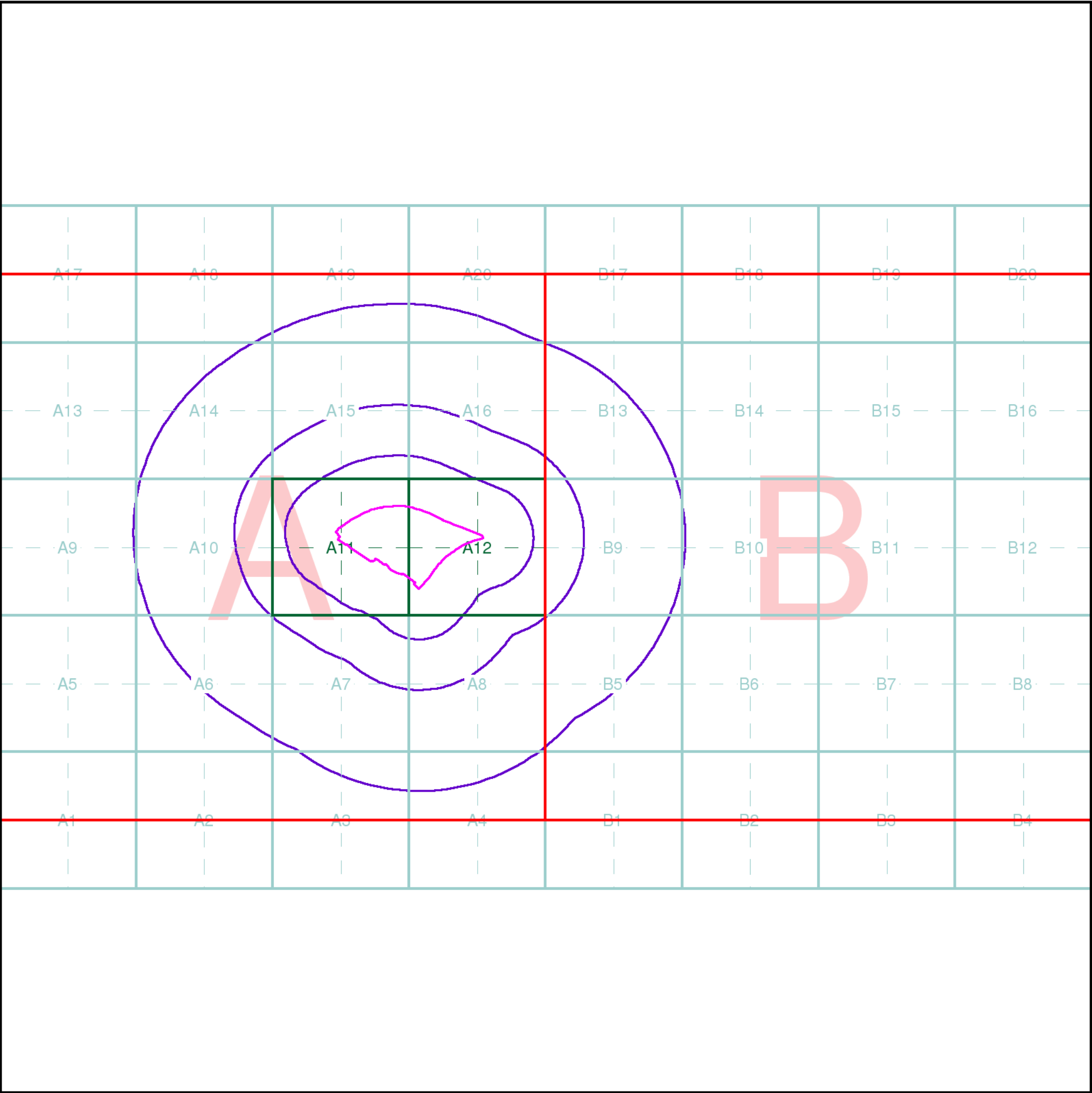
Order Details: 224379683_1_1
Customer Ref: A114312
National Grid Reference: 302570, 515530
Slice: B
Site Area (Ha): 15.46
Search Buffer (m): 1000

Site Details

Leconfield Industrial Estate, CLEATOR MOOR, CA25 5QQ

Landmark
INFORMATION GROUP

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Web: www.envirocheck.co.uk



Index Map

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

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

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

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

A selection of organisations who provide data within this report:



Envirocheck reports are compiled from 136 different sources of data.

Client Details
Ms C Martin, WYG Environment Planning Transport Ltd,
Quay West, Trafford Park Road, Salford Quays,
Manchester, M17 1HH

Order Details
Order Number: 224379683_1_1
Customer Ref: A114312
National Grid Reference: 301590, 515520
Site Area (Ha): 15.46
Search Buffer (m): 1000

Site Details
Leconfield Industrial Estate, CLEATOR MOOR, CA25 5QQ

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

APPENDIX C – 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		Minor Roads		
	Sunken Road		Raised Road		
	Road over Railway		Railway over River		
	Railway over Road		Level Crossing		
	Road over River or Canal		Road over Stream		
	Road over Stream				
	County Boundary (Geographical)				
	County & Civil Parish Boundary				
	Administrative County & Civil Parish Boundary				
	County Borough Boundary (England)				
	County Burgh Boundary (Scotland)				
	Rural District Boundary				
	Civil Parish Boundary				

Ordnance Survey Plan 1:10,000

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

1:10,000 Raster Mapping

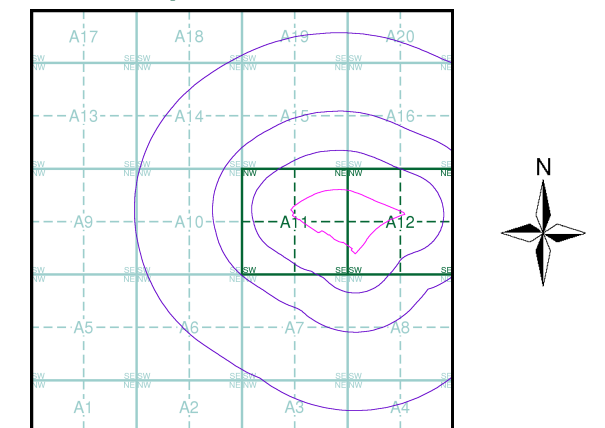
	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil,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



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Cumberland	1:10,560	1867	2
Cumberland	1:10,560	1900	3
Cumberland	1:10,560	1926	4
Cumberland	1:10,560	1938	5
Ordnance Survey Plan	1:10,000	1956 - 1957	6
Ordnance Survey Plan	1:10,000	1967	7
Ordnance Survey Plan	1:10,000	1971 - 1979	8
Ordnance Survey Plan	1:10,000	1988	9
Ordnance Survey Plan	1:10,000	1993	10
10K Raster Mapping	1:10,000	2000	11
10K Raster Mapping	1:10,000	2006	12
VectorMap Local	1:10,000	2019	13

Historical Map - Slice A



Order Details

Order Number: 224379683_1_1
Customer Ref: A114312
National Grid Reference: 301380, 515510
Slice: A
Site Area (Ha): 15.46
Search Buffer (m): 1000

Site Details

Leconfield Industrial Estate, CLEATOR MOOR, CA25 5QQ

Landmark
INFORMATION GROUP

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



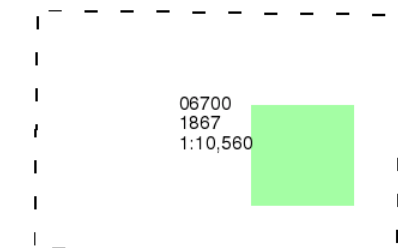
Cumberland

Published 1867

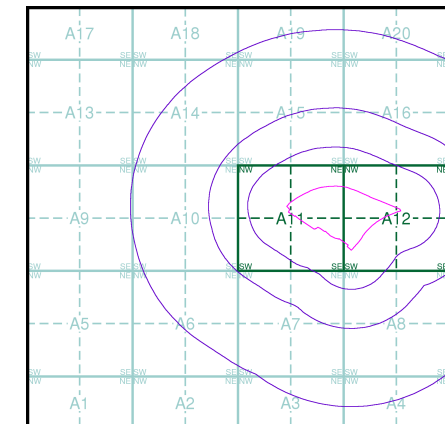
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

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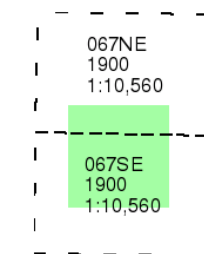
Cumberland

Published 1900

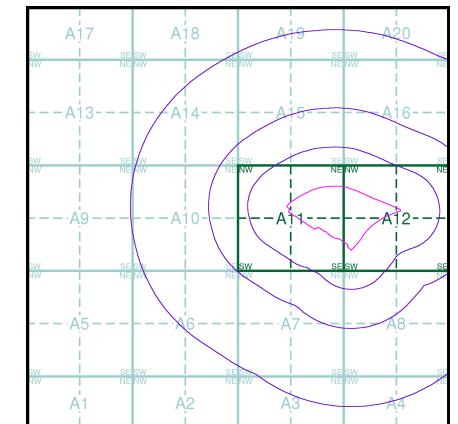
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 224379683_1_1
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National Grid Reference: 301380, 515510
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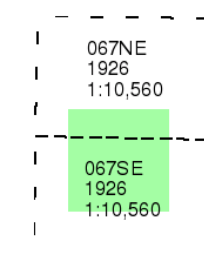
Cumberland

Published 1926

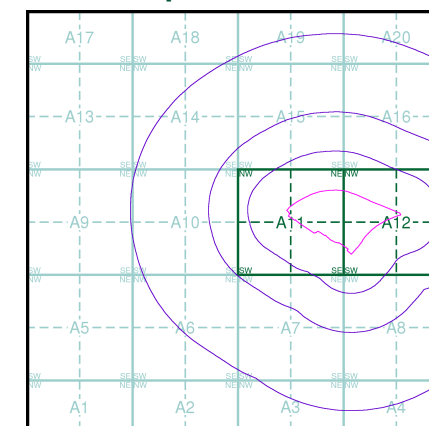
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

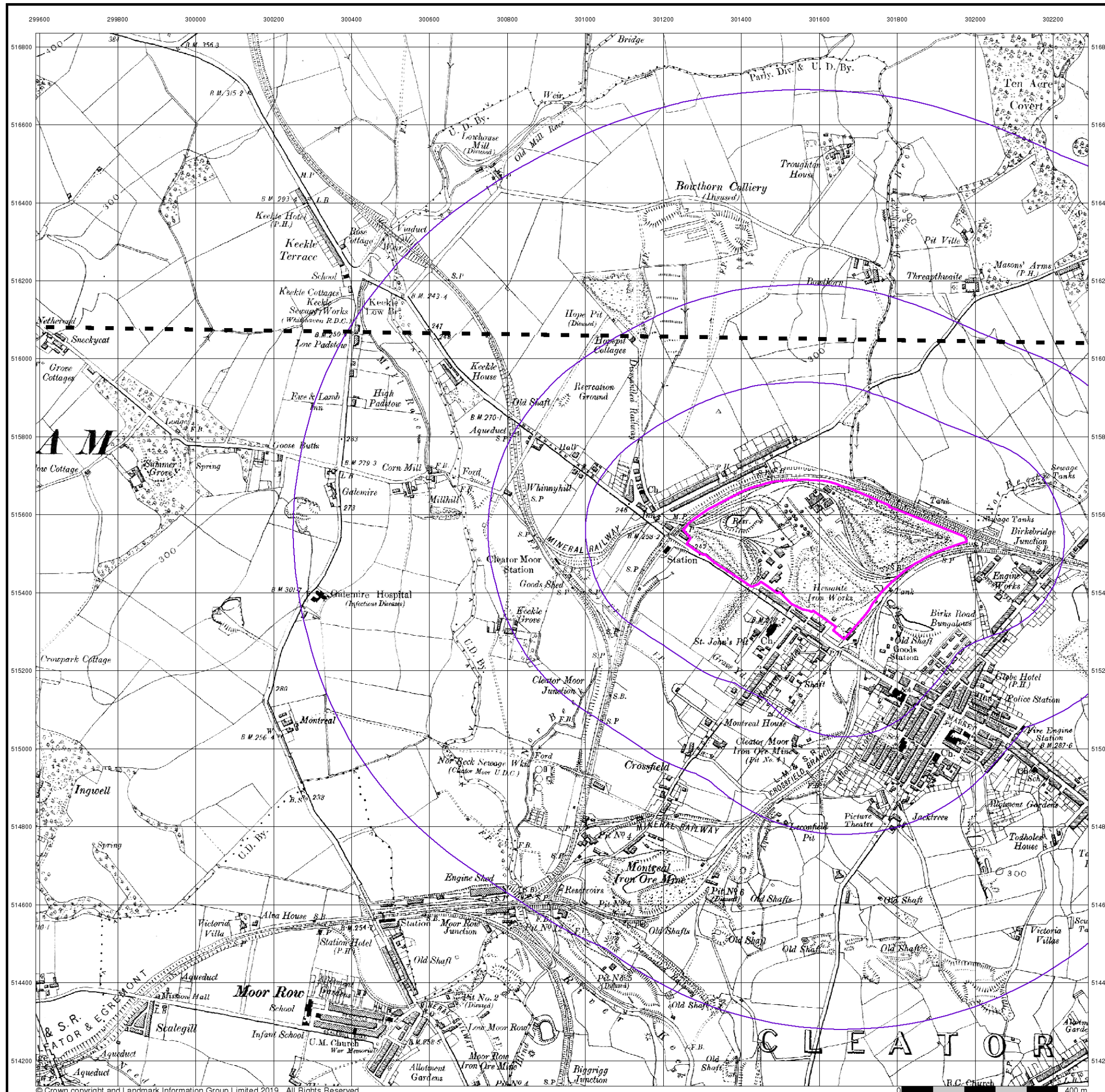
Order Number: 224379683_1_1
Customer Ref: A114312
National Grid Reference: 301380, 515510
Slice: A
Site Area (Ha): 15.46
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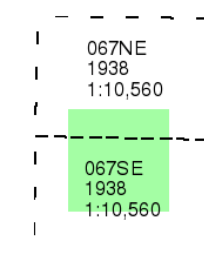
Cumberland

Published 1938

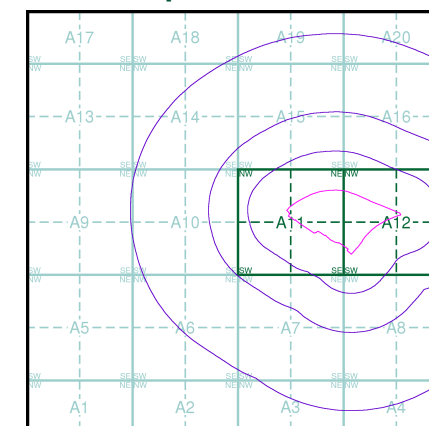
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 224379683_1_1
Customer Ref: A114312
National Grid Reference: 301380, 515510
Slice: A
Site Area (Ha): 15.46
Search Buffer (m): 1000

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Ordnance Survey Plan

Published 1956 - 1957

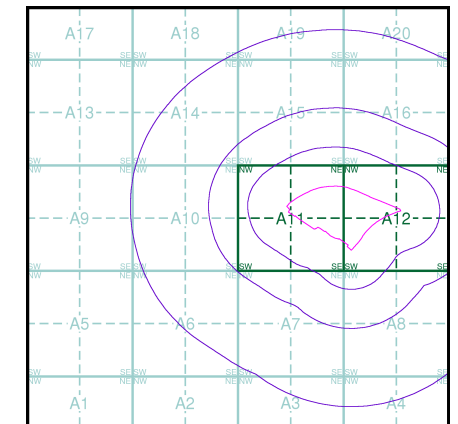
Source map scale - 1:10,000

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)

NX91NE	NY01NW
1957	1957
1:10,560	1:10,560
NX91SE	NY01SW
1957	1956
1:10,560	1:10,560

Historical Map - Slice A



Order Details

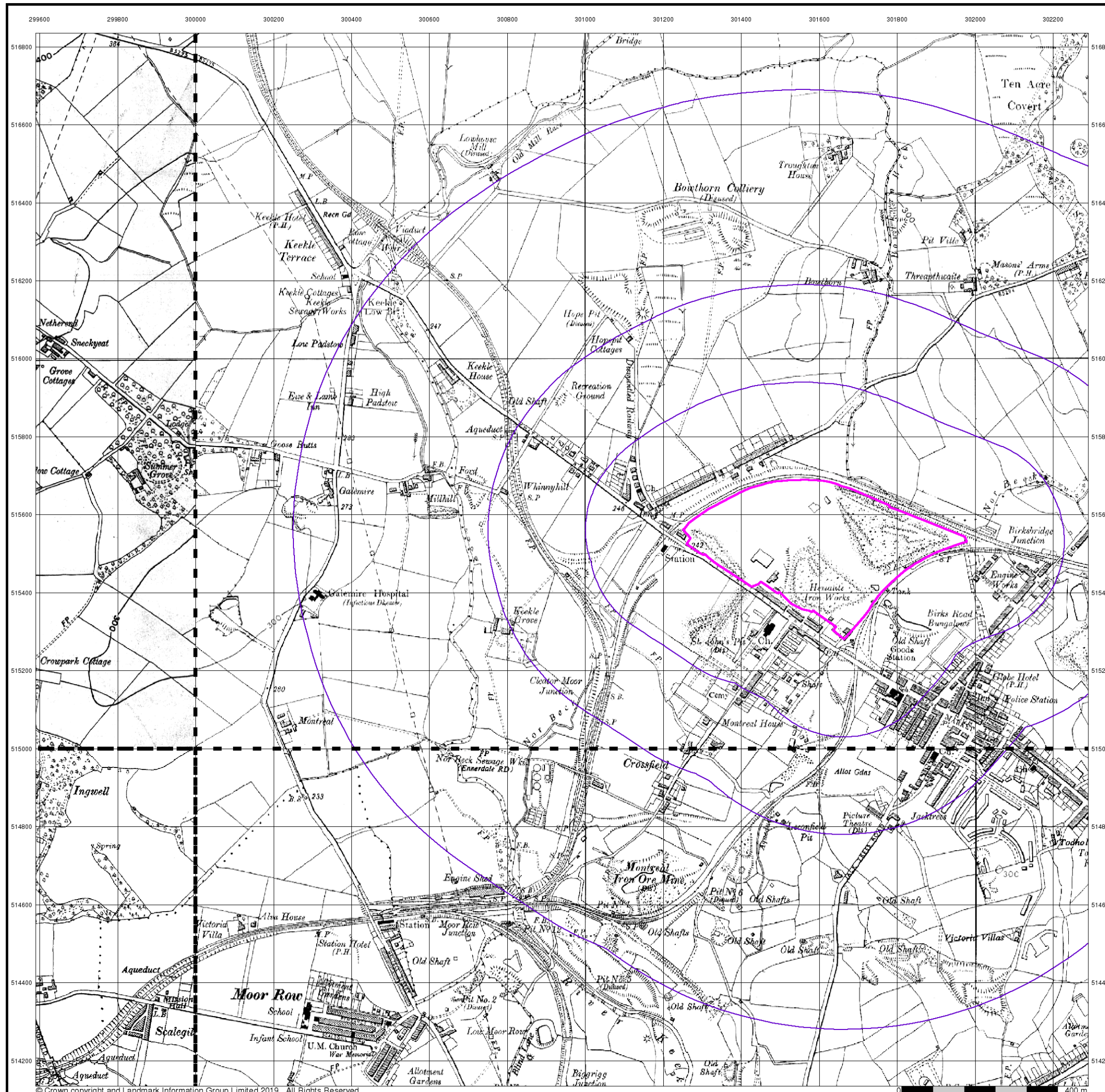
Order Number: 224379683_1_1
Customer Ref: A114312
National Grid Reference: 301380, 515510
Slice: A
Site Area (Ha): 15.46
Search Buffer (m): 1000

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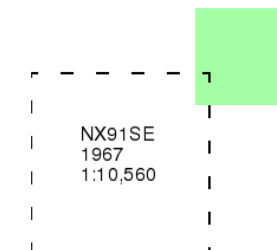
Ordnance Survey Plan

Published 1967

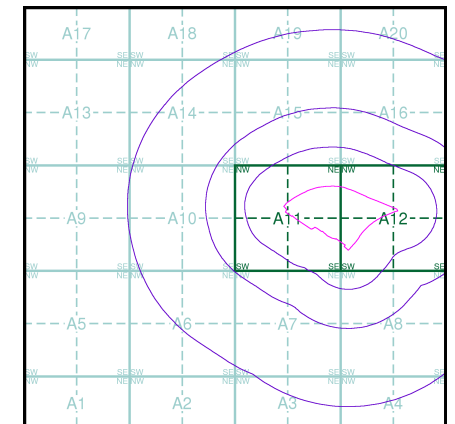
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

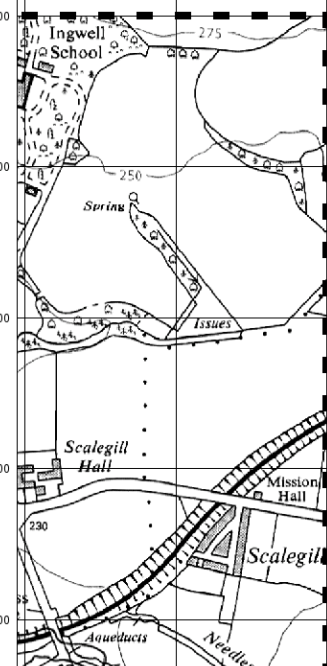
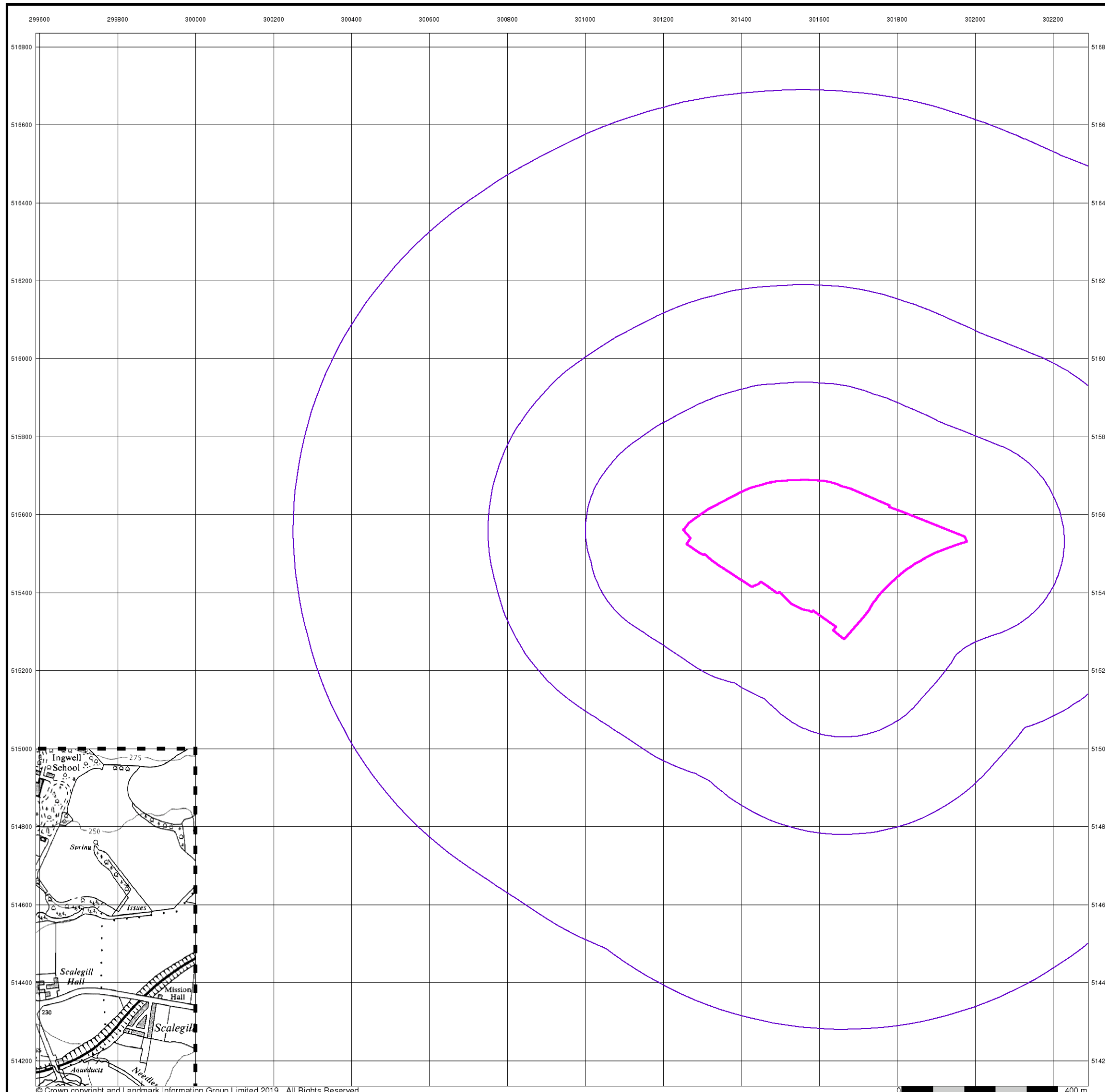
Order Number: 224379683_1_1
Customer Ref: A114312
National Grid Reference: 301380, 515510
Slice: A
Site Area (Ha): 15.46
Search Buffer (m): 1000

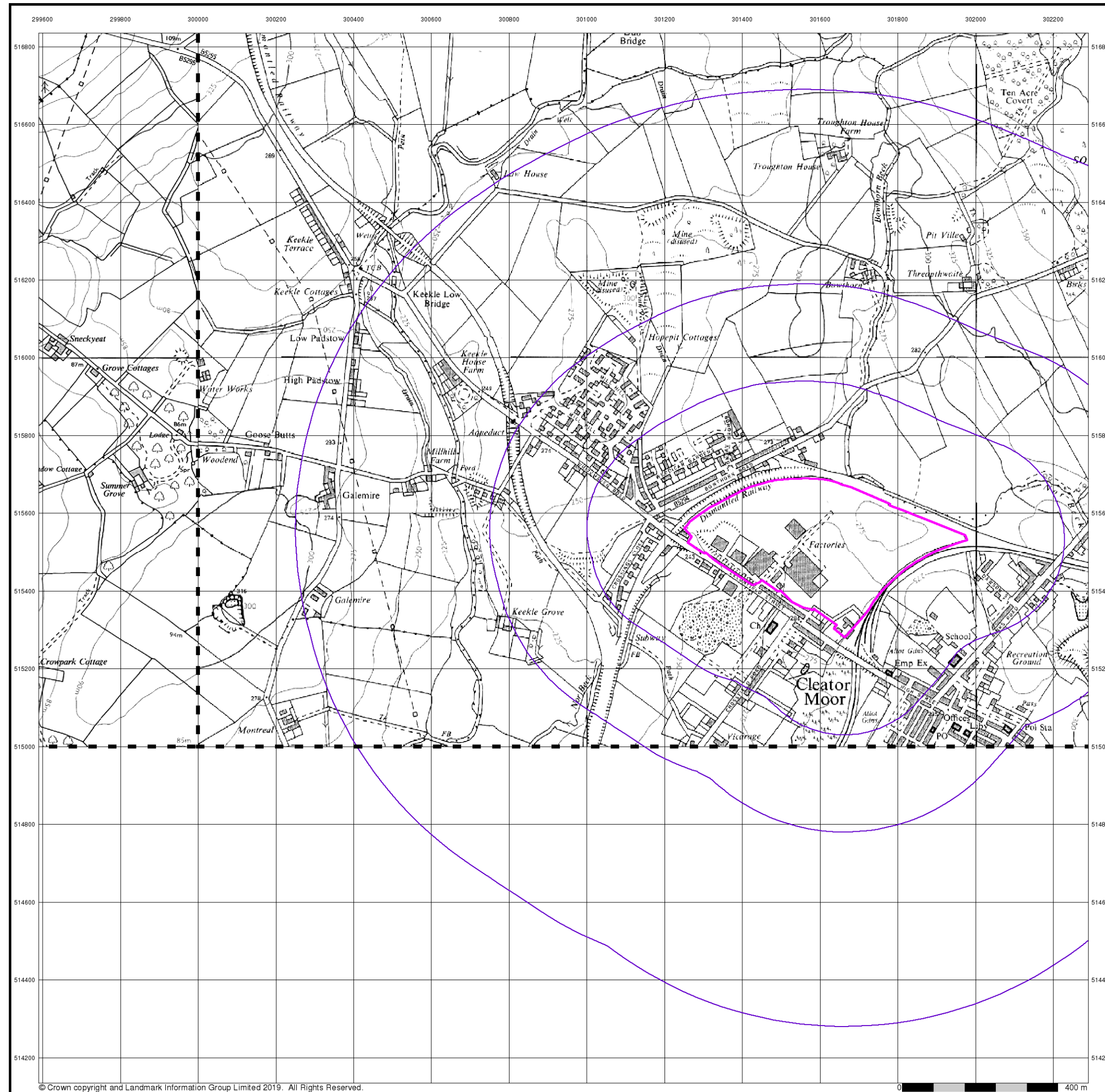
Site Details

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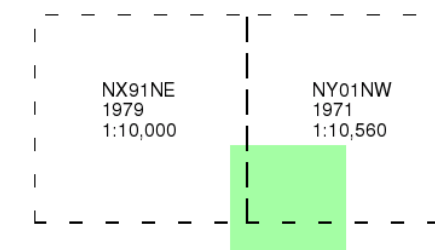
Ordnance Survey Plan

Published 1971 - 1979

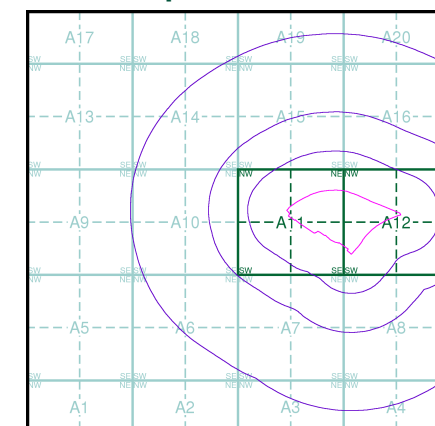
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 224379683_1_1
Customer Ref: A114312
National Grid Reference: 301380, 515510
Slice: A
Site Area (Ha): 15.46
Search Buffer (m): 1000

Site Details

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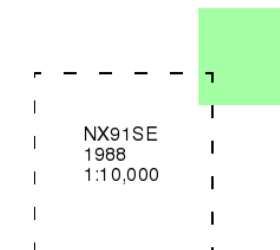
Ordnance Survey Plan

Published 1988

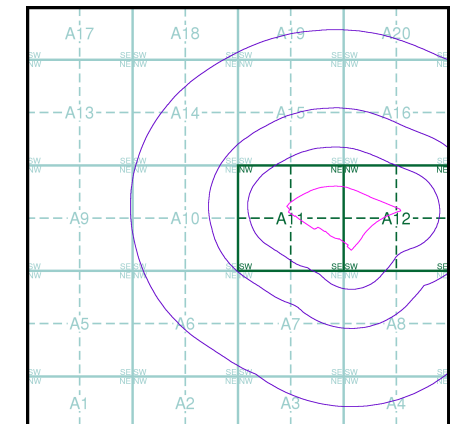
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

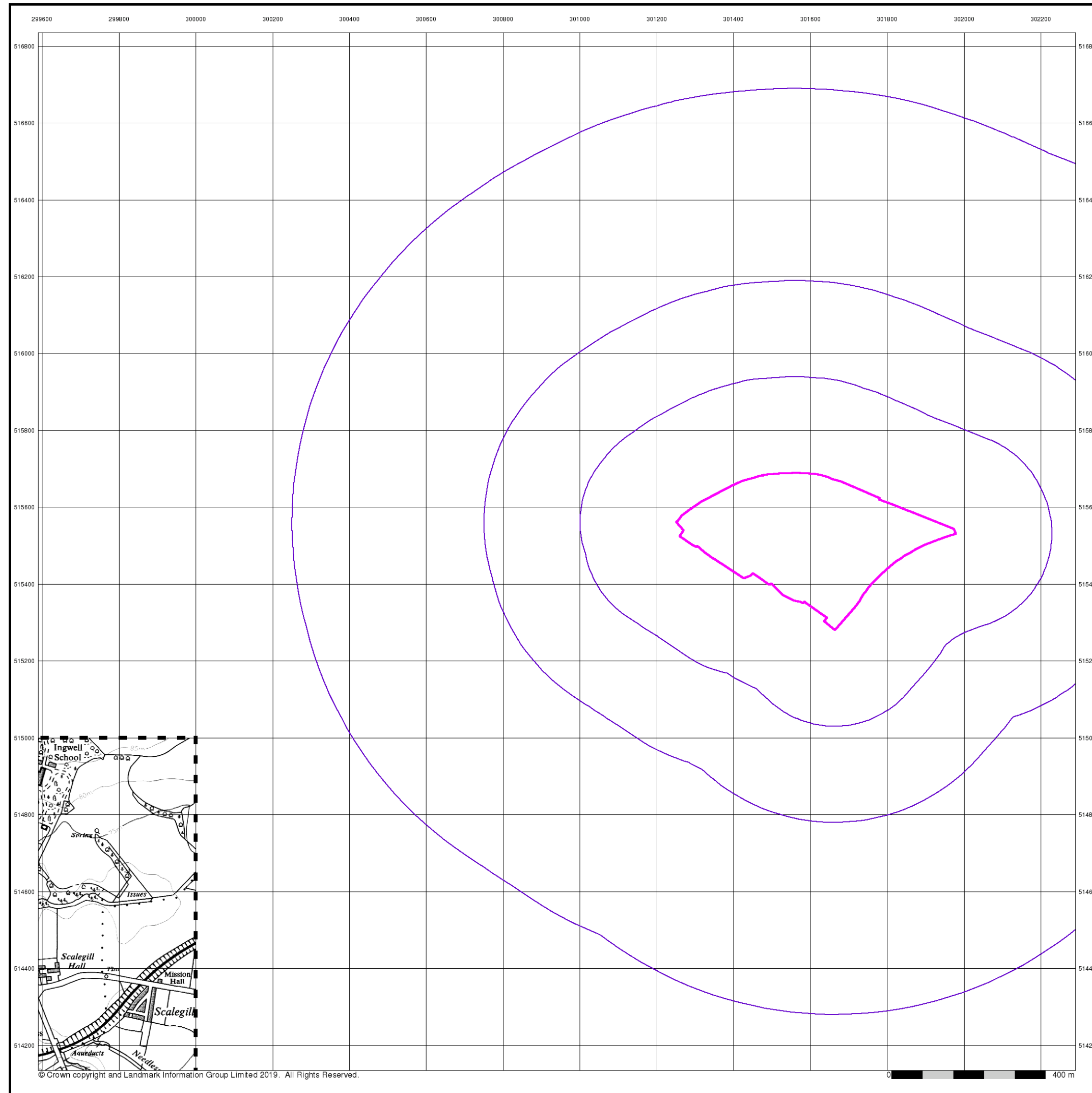
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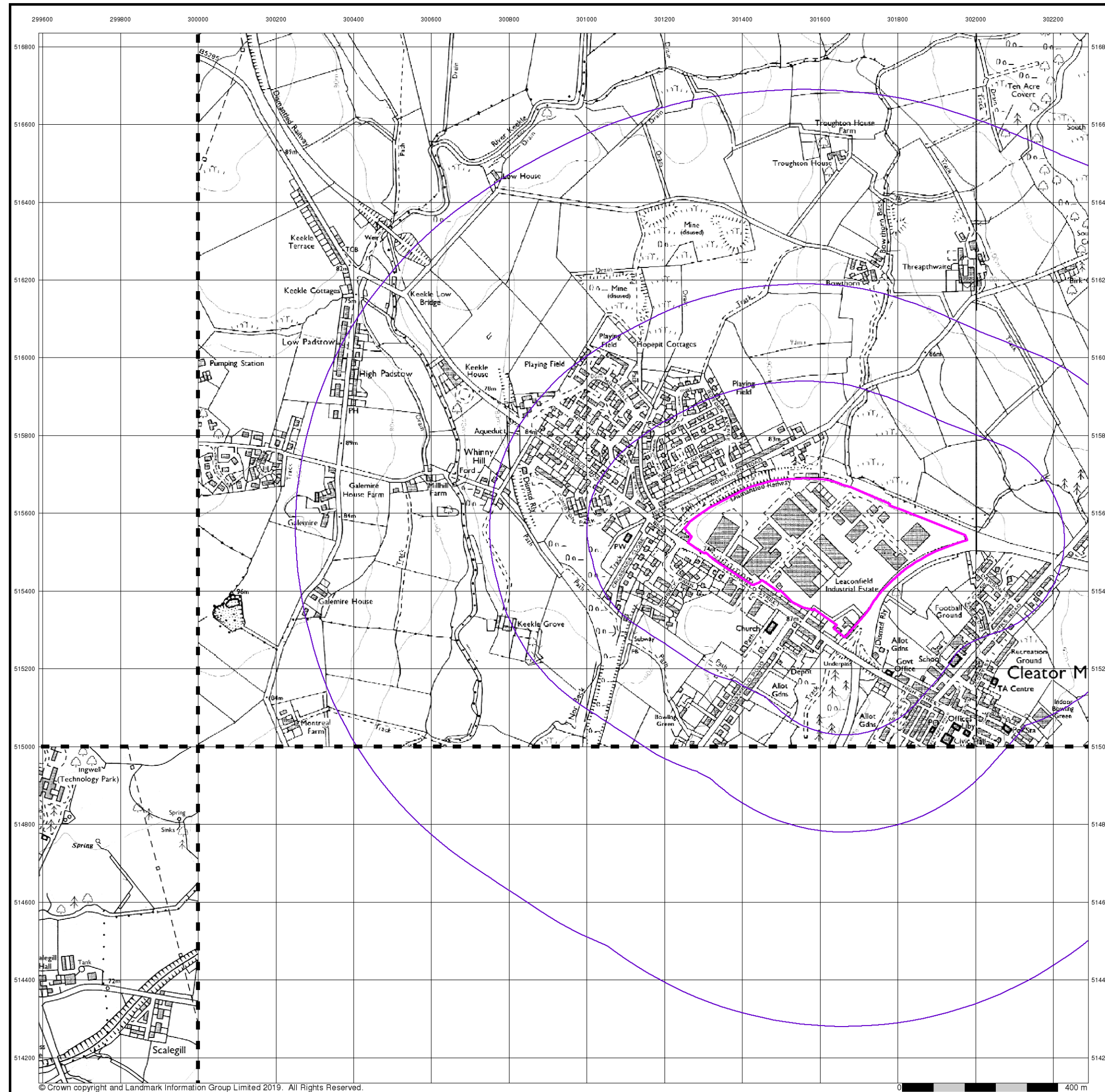
Site Details

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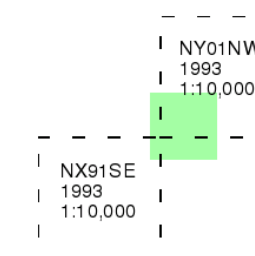
Ordnance Survey Plan

Published 1993

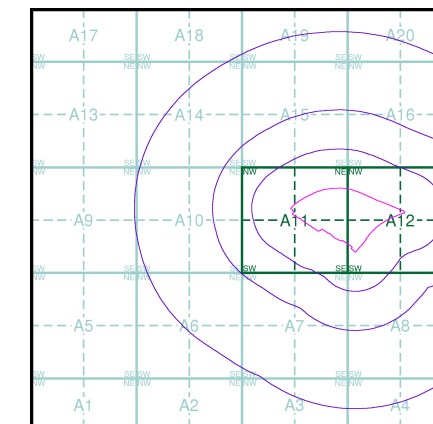
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 224379683_1_1
Customer Ref: A114312
National Grid Reference: 301380, 515510
Slice: A
Site Area (Ha): 15.46
Search Buffer (m): 1000

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10k Raster Mapping

Published 2000

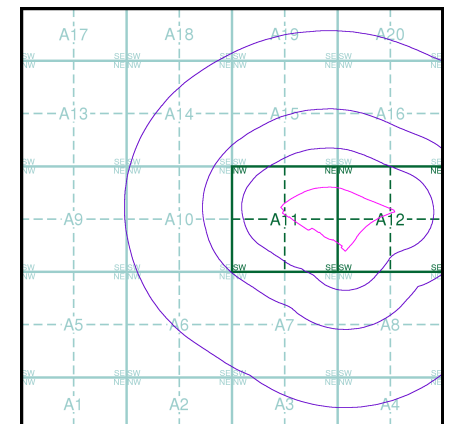
Source map scale - 1:10,000

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)

NX91NE	NY01NW
2000	2000
1:10,000	1:10,000
NX91SE	NY01SW
2000	2000
1:10,000	1:10,000

Historical Map - Slice A



Order Details

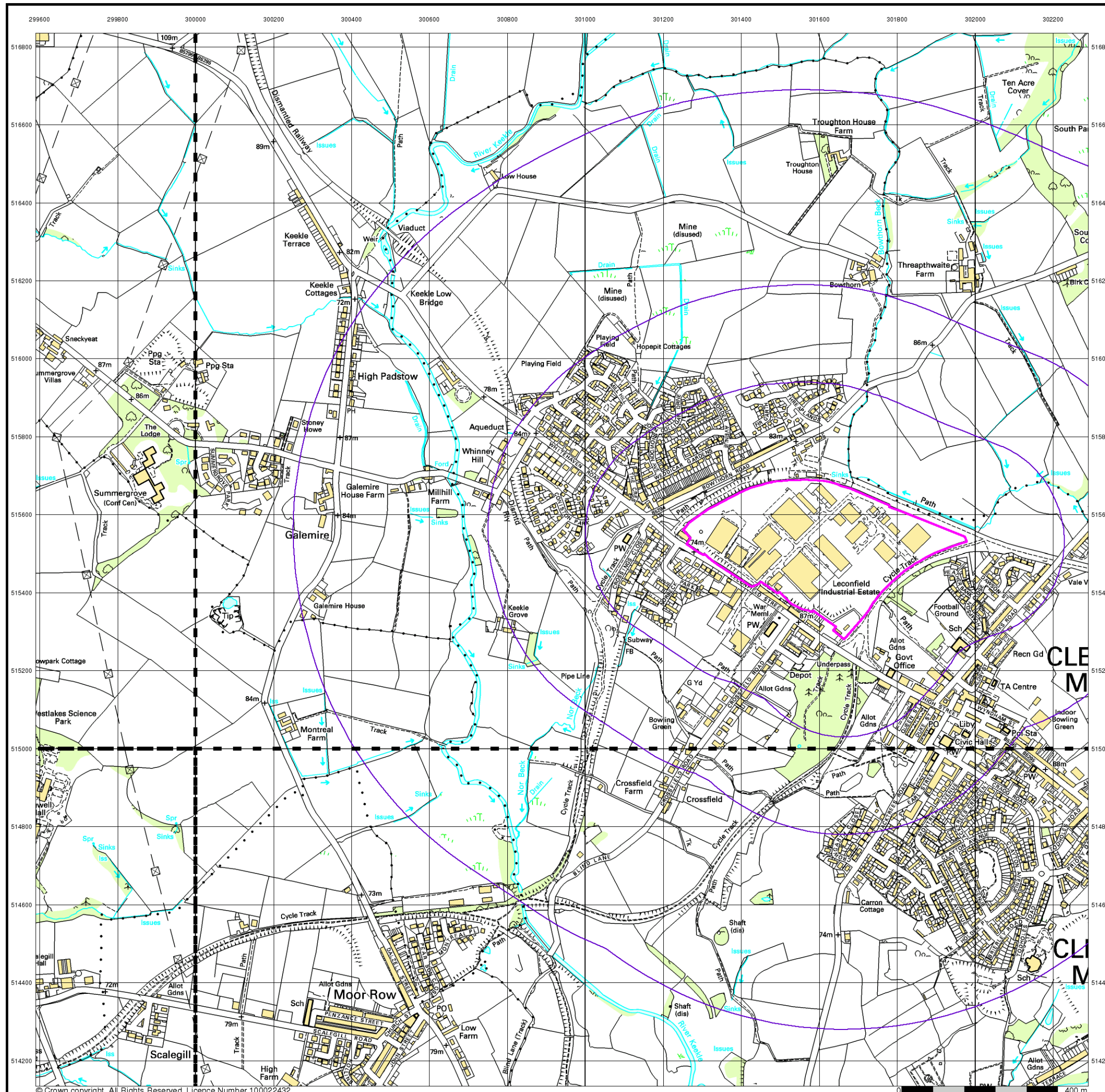
Order Number: 224379683_1_1
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National Grid Reference: 301380, 515510
Slice: A
Site Area (Ha): 15.46
Search Buffer (m): 1000

Site Details

Leconfield Industrial Estate, CLEATOR MOOR, CA25 5QQ

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10k Raster Mapping

Published 2006

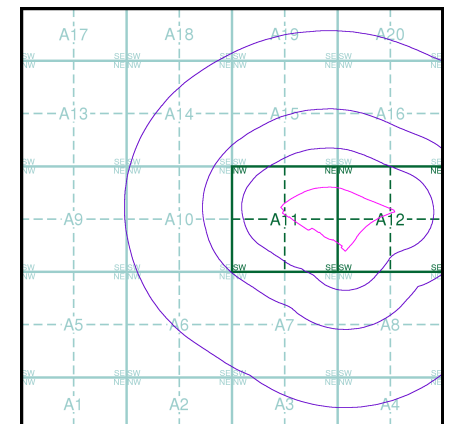
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

NX91NE	NY01NW
2006	2006
1:10,000	1:10,000
NX91SE	NY01SW
2006	2006
1:10,000	1:10,000

Historical Map - Slice A



Order Details

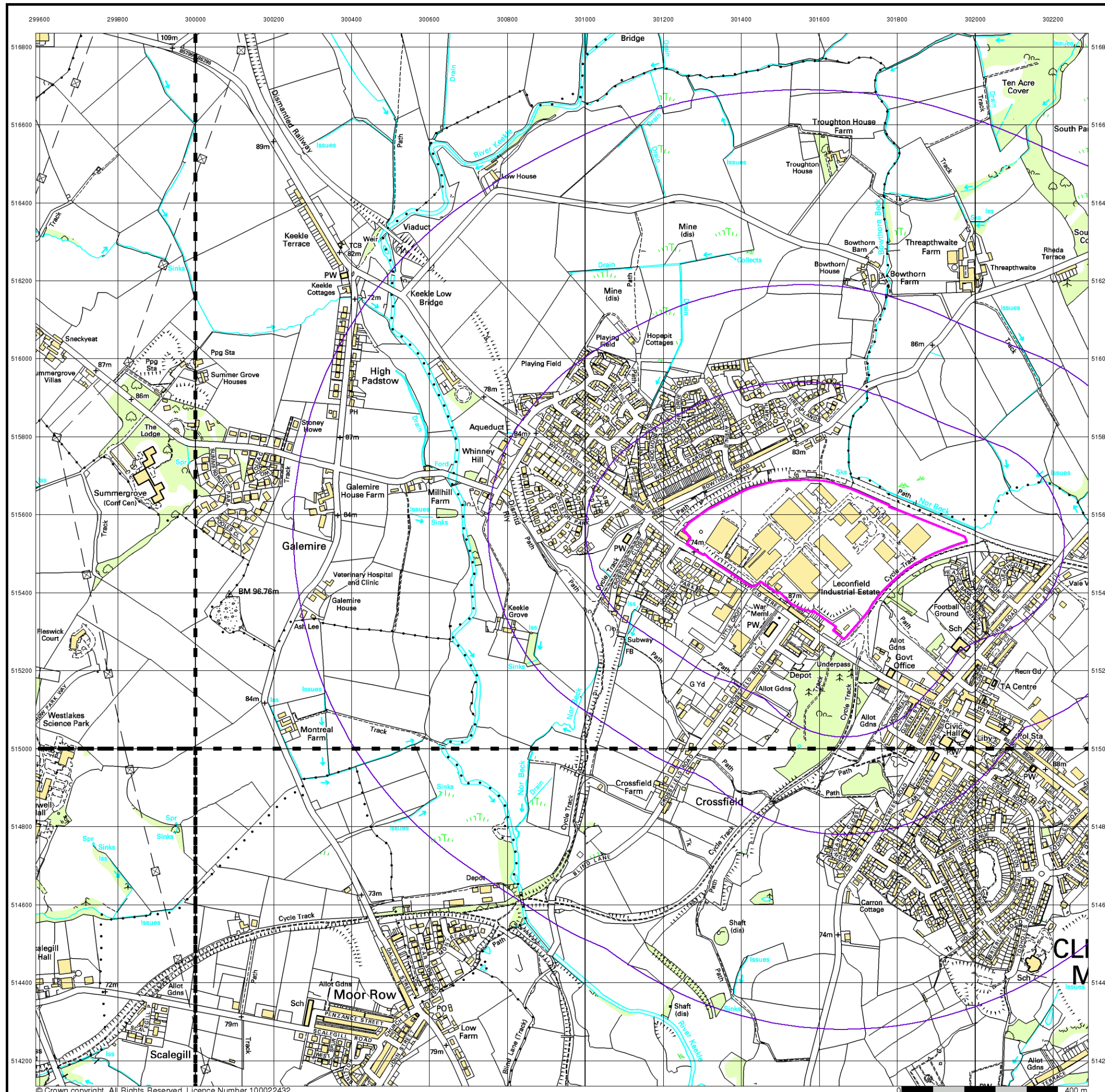
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Customer Ref: A114312
National Grid Reference: 301380, 515510
Slice: A
Site Area (Ha): 15.46
Search Buffer (m): 1000

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Landmark
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VectorMap Local

Published 2019

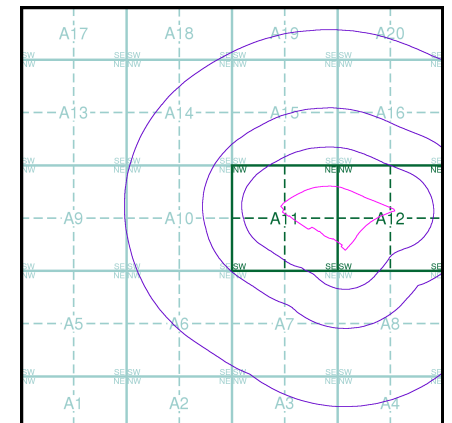
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

NX91NE	NY01NW
2019	2019
Variable	Variable
NX91SE	NY01SW
2019	2019
Variable	Variable

Historical Map - Slice A



Order Details

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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

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

Ordnance Survey Plan 1:10,000

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

1:10,000 Raster Mapping

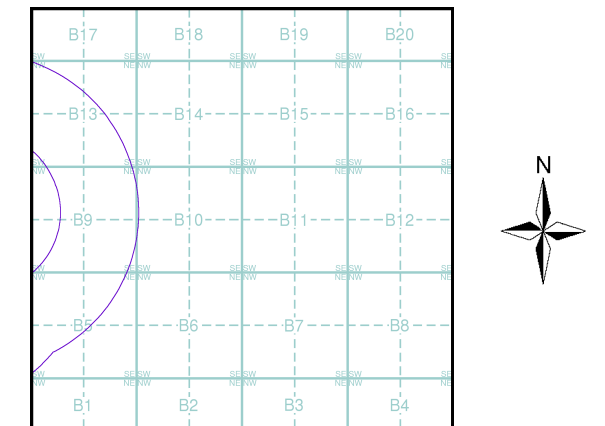
	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil,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



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Cumberland	1:10,560	1867	2
Cumberland	1:10,560	1900	3
Cumberland	1:10,560	1926	4
Cumberland	1:10,560	1926	5
Cumberland	1:10,560	1926	6
Cumberland	1:10,560	1926	7
Cumberland	1:10,560	1938	8
Ordnance Survey Plan	1:10,000	1956 - 1957	9
Ordnance Survey Plan	1:10,000	1971	10
Ordnance Survey Plan	1:10,000	1993	11
10K Raster Mapping	1:10,000	2000	12
10K Raster Mapping	1:10,000	2006	13
VectorMap Local	1:10,000	2019	14

Historical Map - Slice B



Order Details

Order Number: 224379683_1_1
 Customer Ref: A114312
 National Grid Reference: 302570, 515530
 Slice: B
 Site Area (Ha): 15.46
 Search Buffer (m): 1000

Site Details

Leconfield Industrial Estate, CLEATOR MOOR, CA25 5QQ

Landmark
 INFORMATION GROUP

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



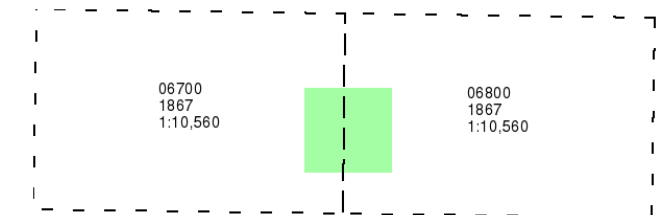
Cumberland

Published 1867

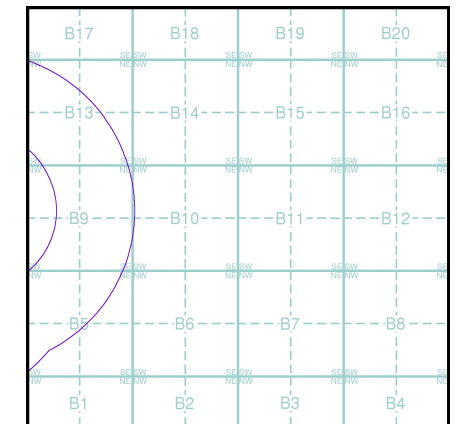
Source map scale - 1:10,560

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 B



Order Details

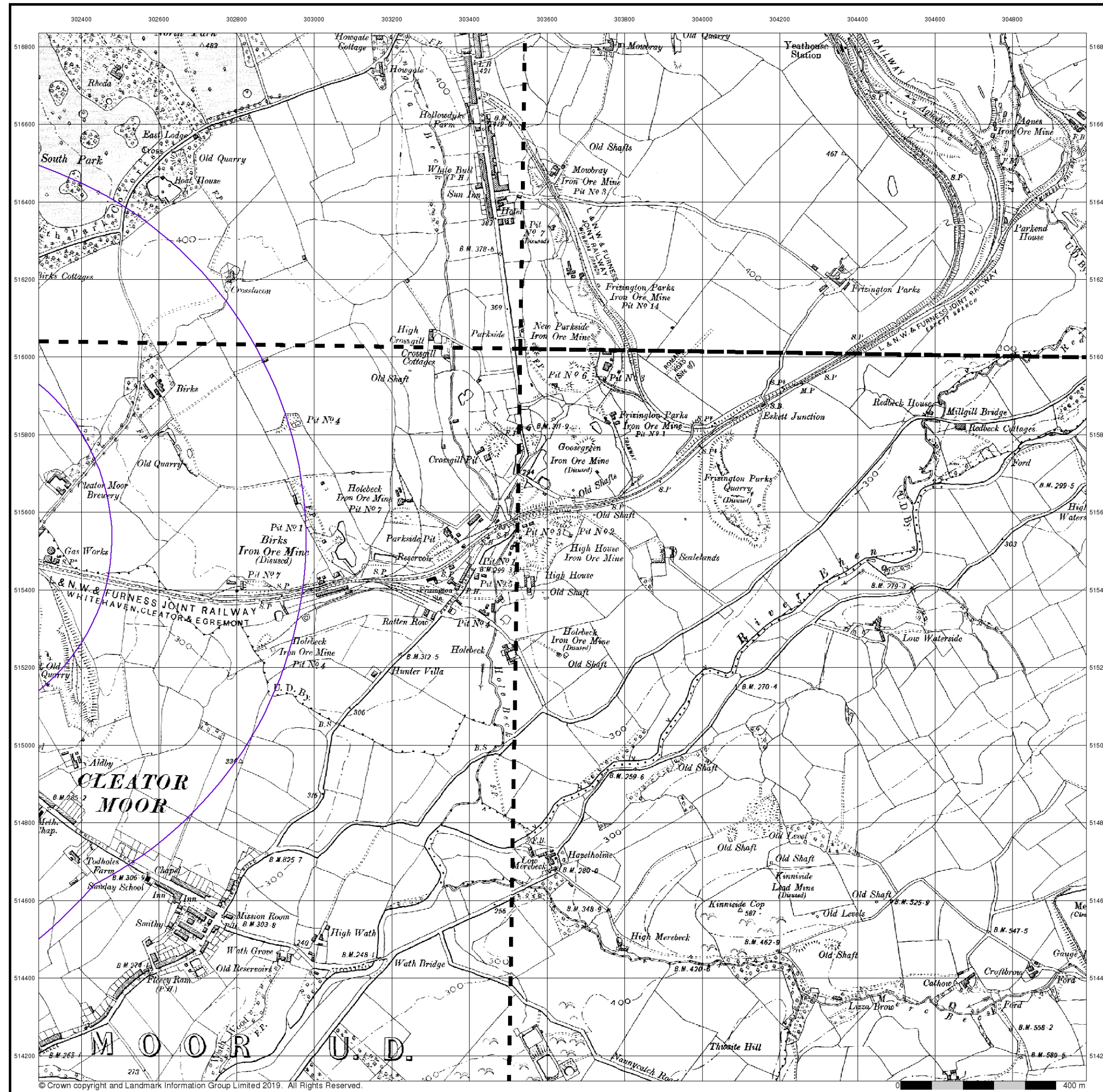
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Cumberland

Published 1900

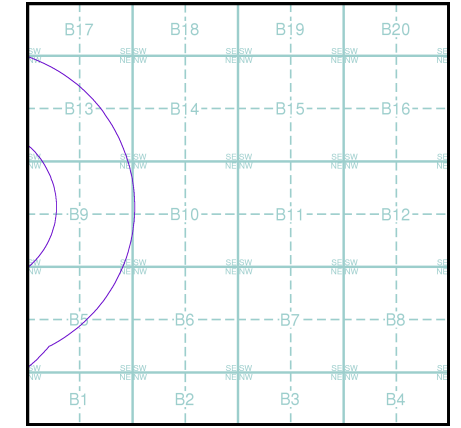
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Map Name(s) and Date(s)

067NE 1900 1:10,560	068NW 1900 1:10,560
067SE 1900 1:10,560	068SW 1900 1:10,560

Historical Map - Slice B



Order Details

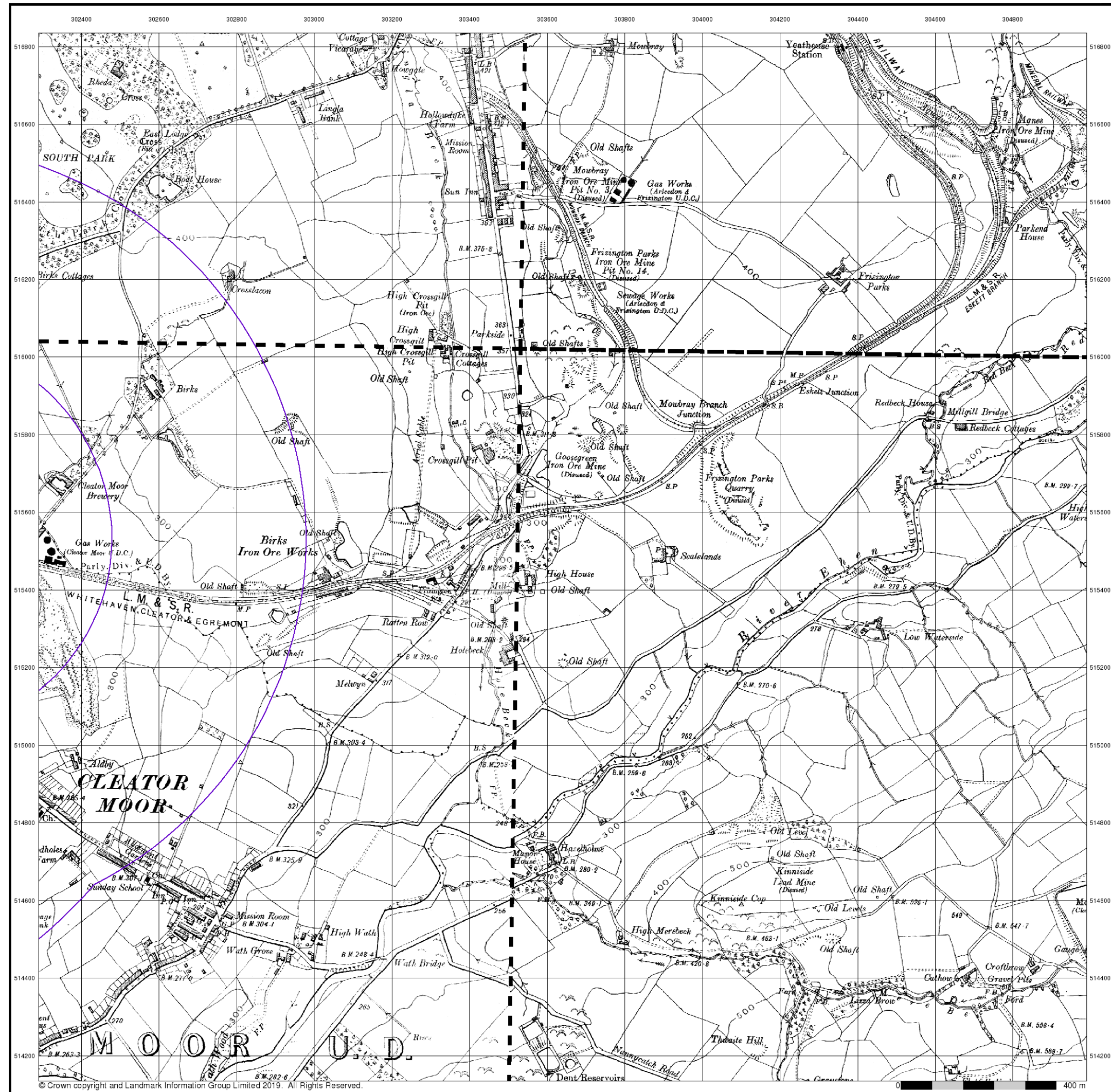
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Customer Ref: A114312
National Grid Reference: 302570, 515530
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Cumberland

Published 1926

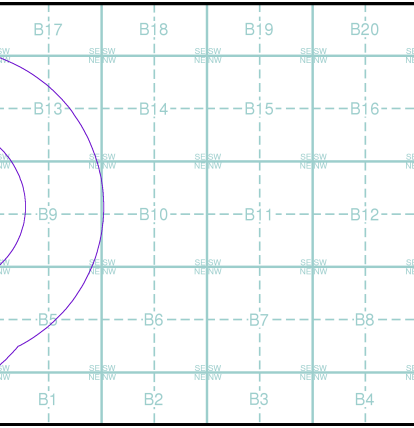
Source map scale - 1:10,560

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Map Name(s) and Date(s)

067NE 1926 1:10,560	068NW 1926 1:10,560
067SE 1926 1:10,560	068SW 1926 1:10,560

Historical Map - Slice B



Order Details

Order Number: 224379683_1_1
Customer Ref: A114312
National Grid Reference: 302570, 515530
Slice: B
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Site Details

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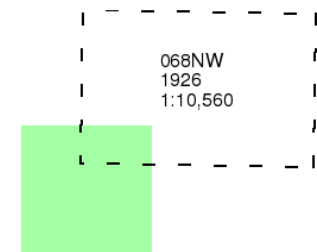
Cumberland

Published 1926

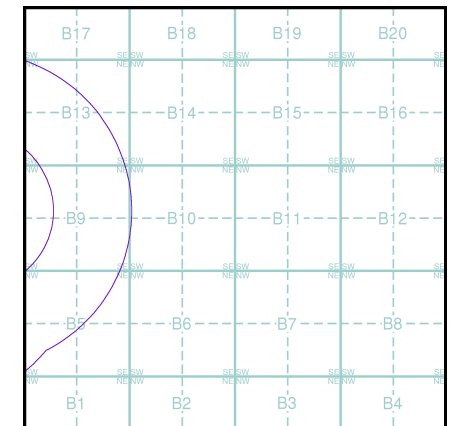
Source map scale - 1:10,560

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 B



Order Details

Order Number: 224379683_1_1
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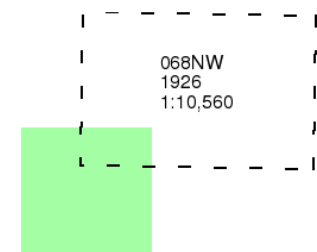
Cumberland

Published 1926

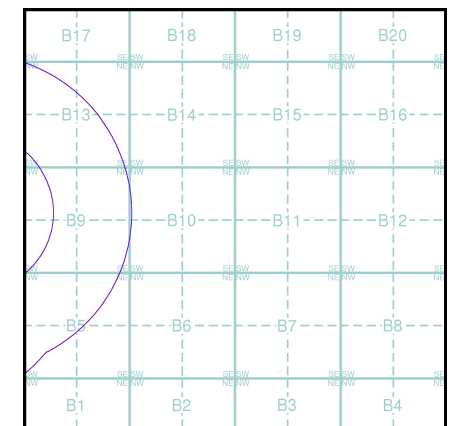
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Map Name(s) and Date(s)



Historical Map - Slice B



Order Details

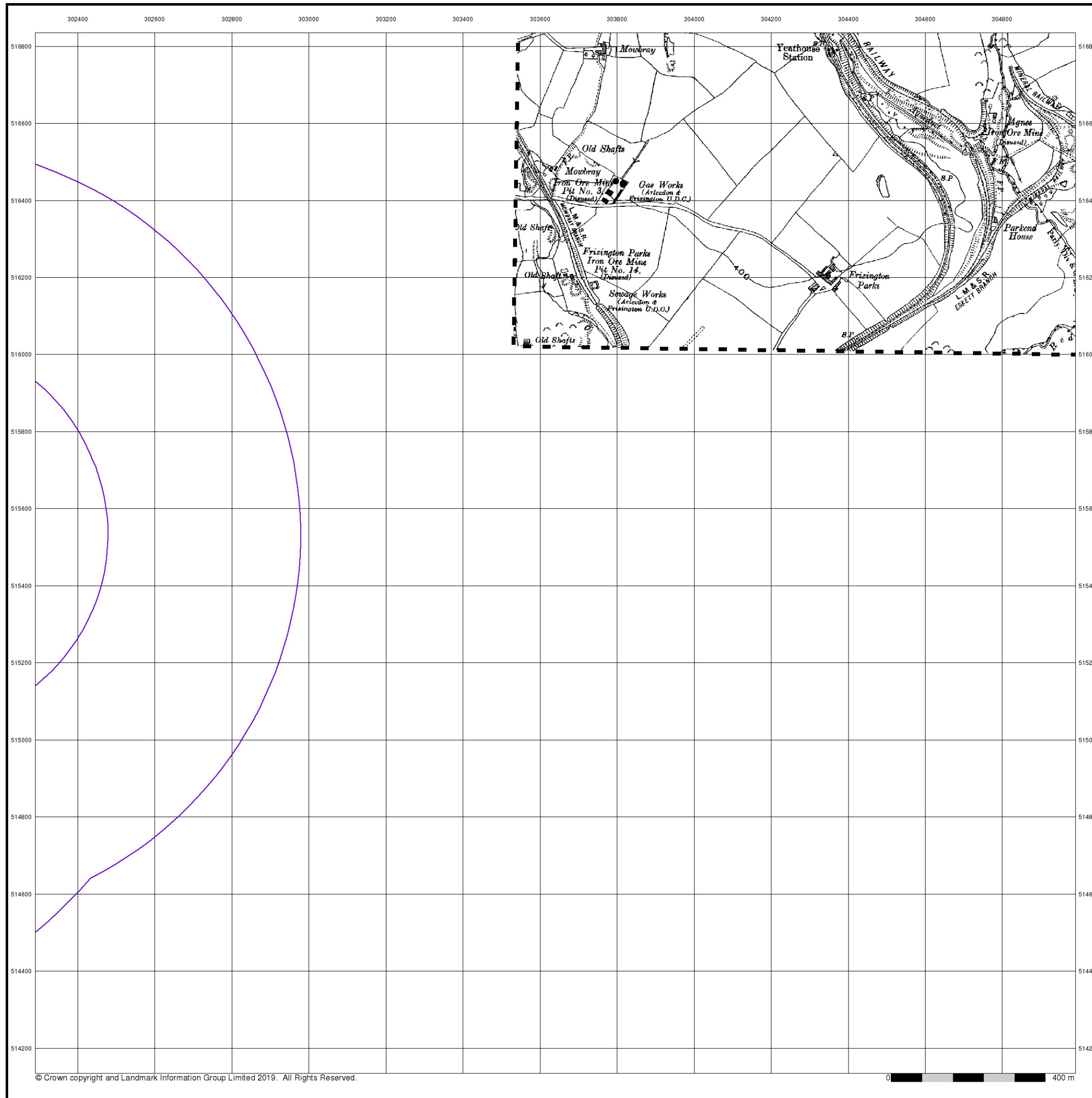
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Slice: B
Site Area (Ha): 15.46
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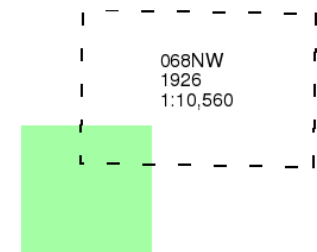
Cumberland

Published 1926

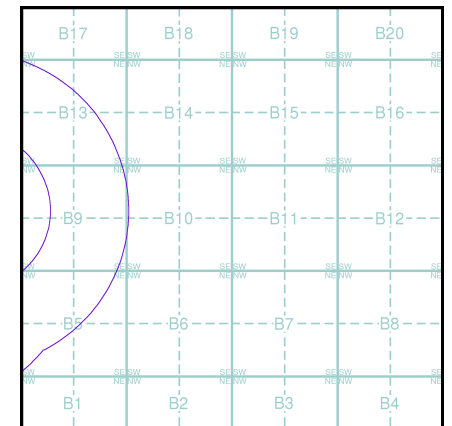
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Map Name(s) and Date(s)



Historical Map - Slice B



Order Details

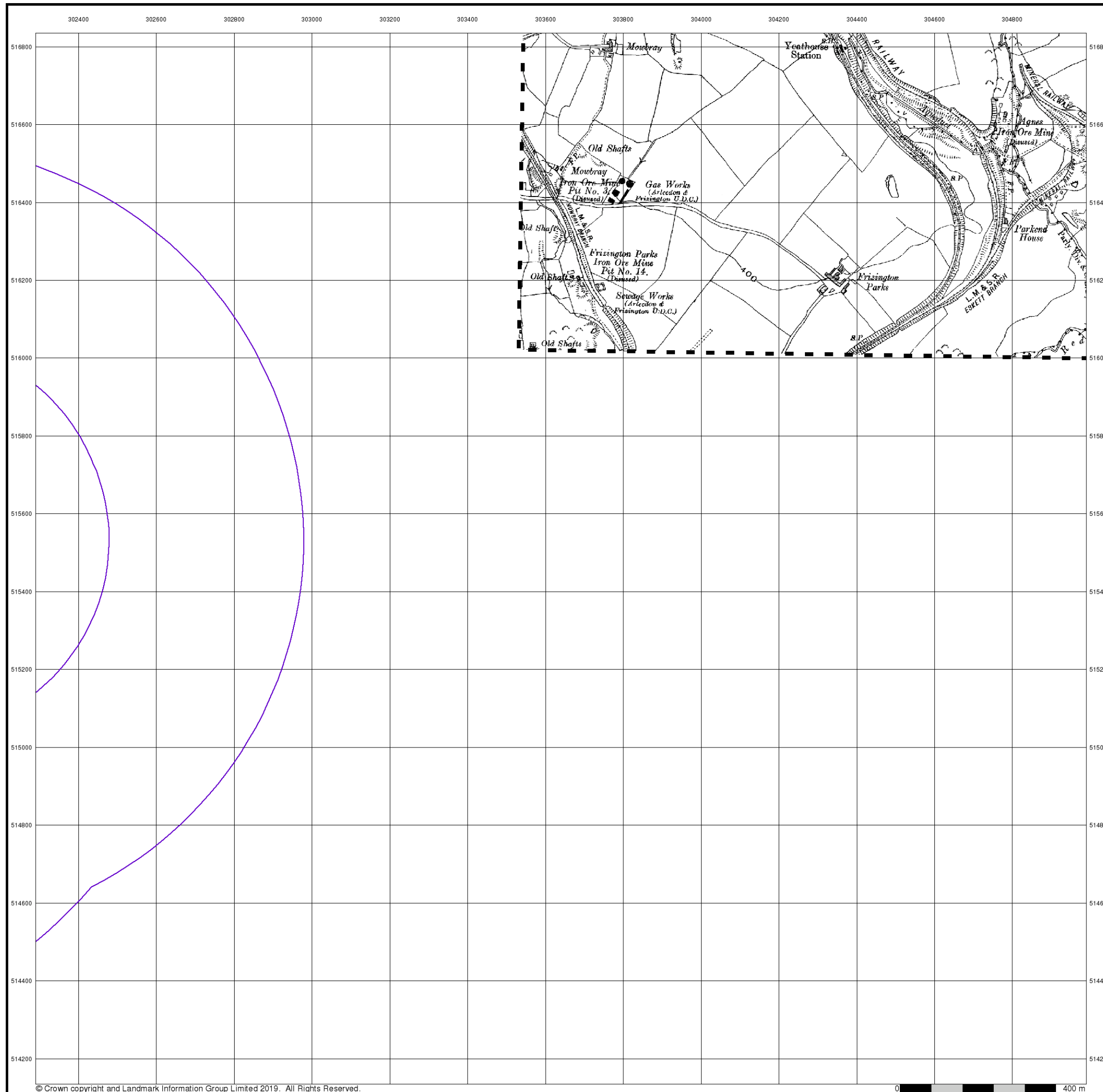
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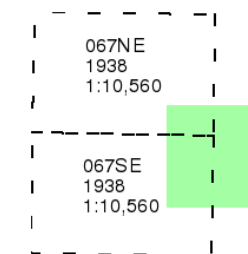
Cumberland

Published 1938

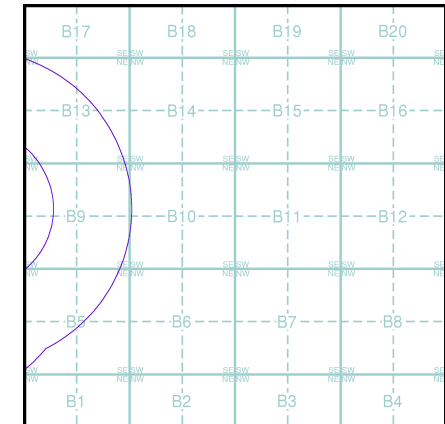
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Map Name(s) and Date(s)



Historical Map - Slice B



Order Details

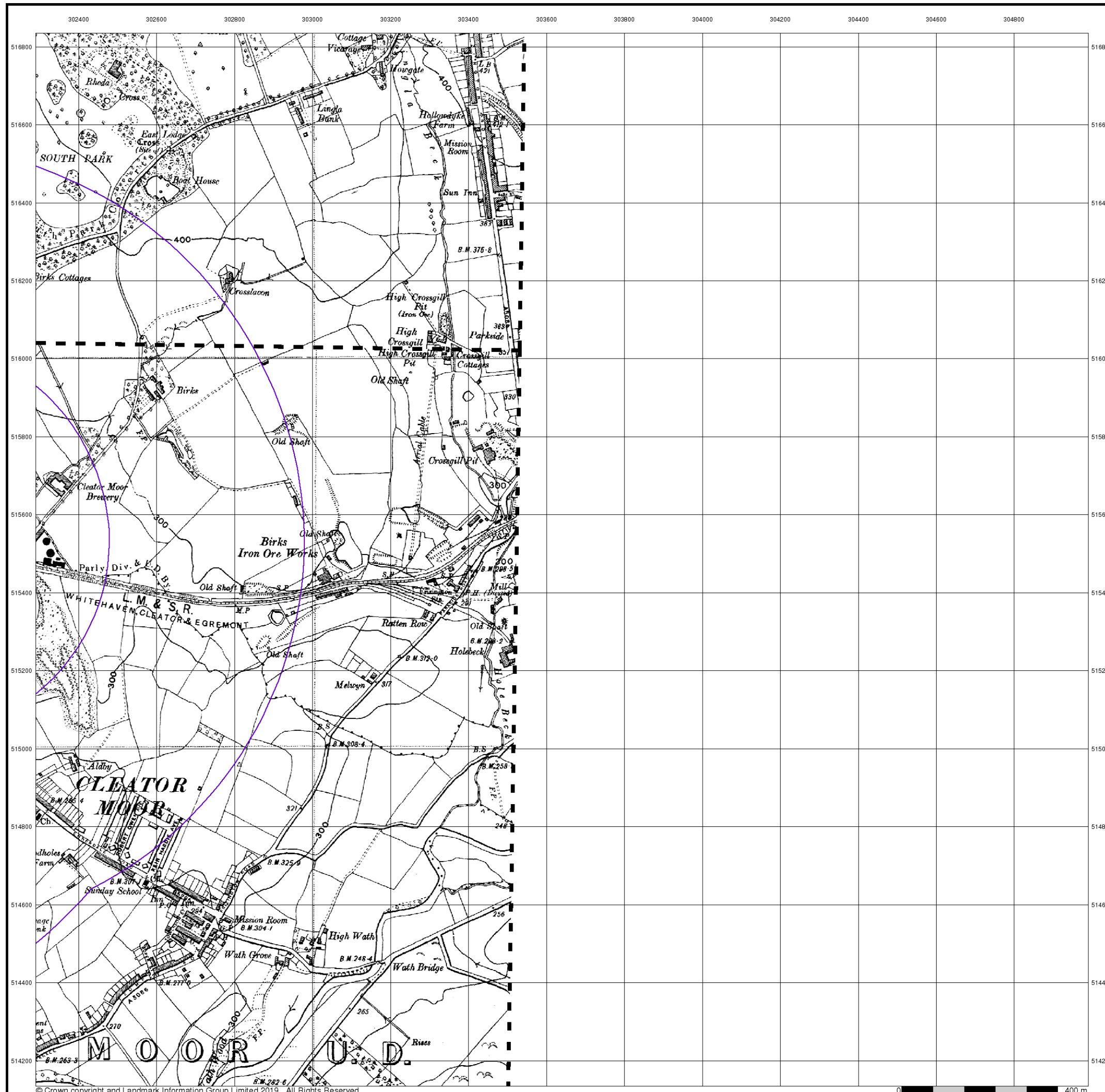
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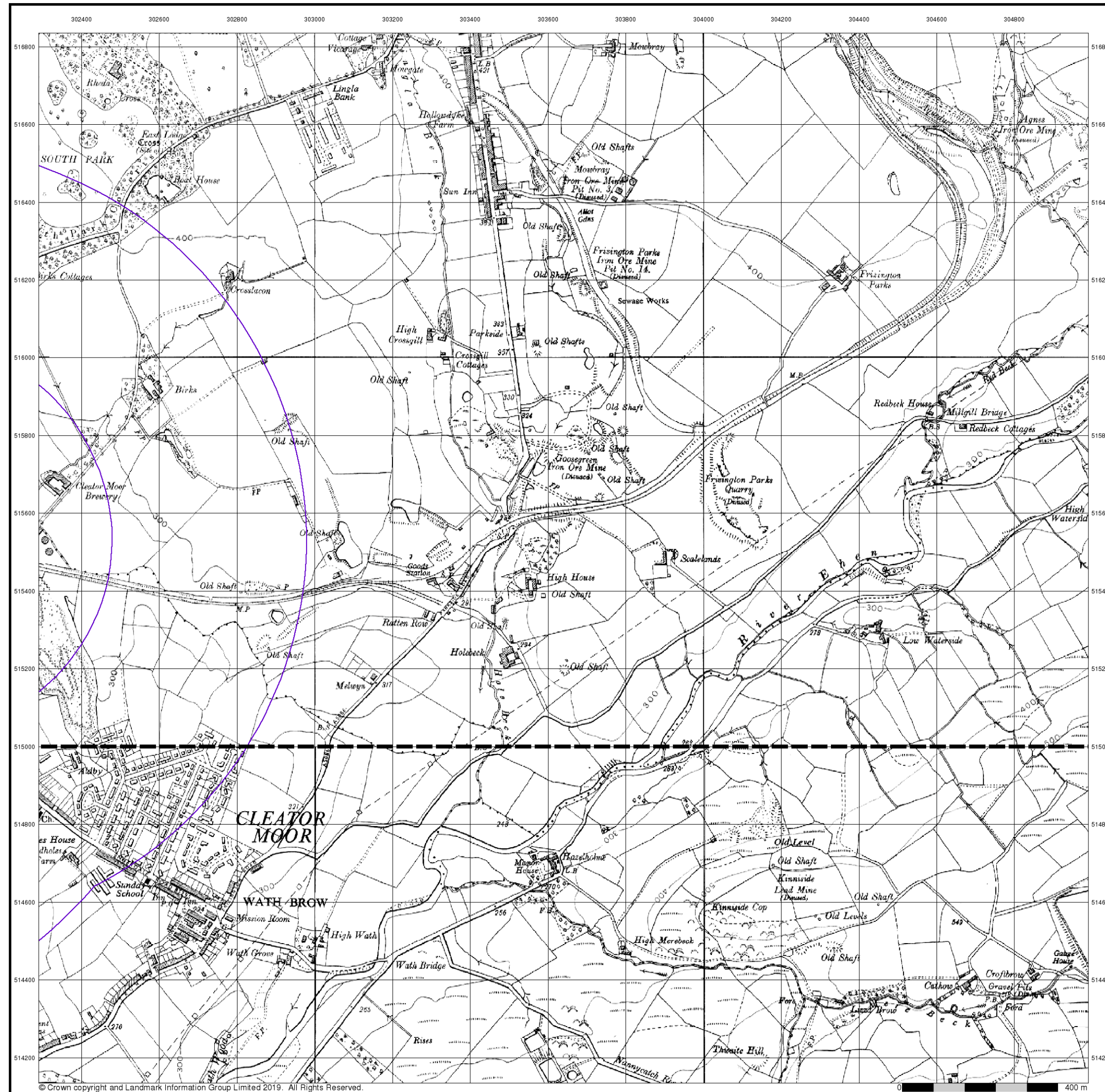
Site Details

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Ordnance Survey Plan

Published 1956 - 1957

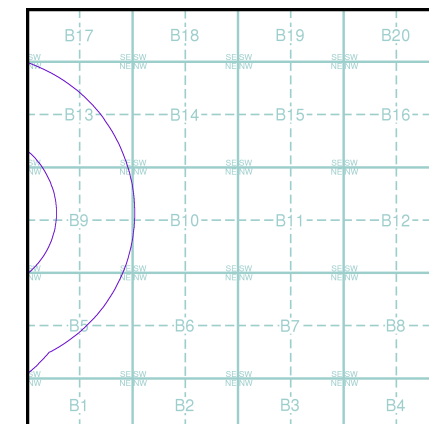
Source map scale - 1:10,000

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Map Name(s) and Date(s)

NY01NW	1957
NY01SW	1956

Historical Map - Slice B



Order Details

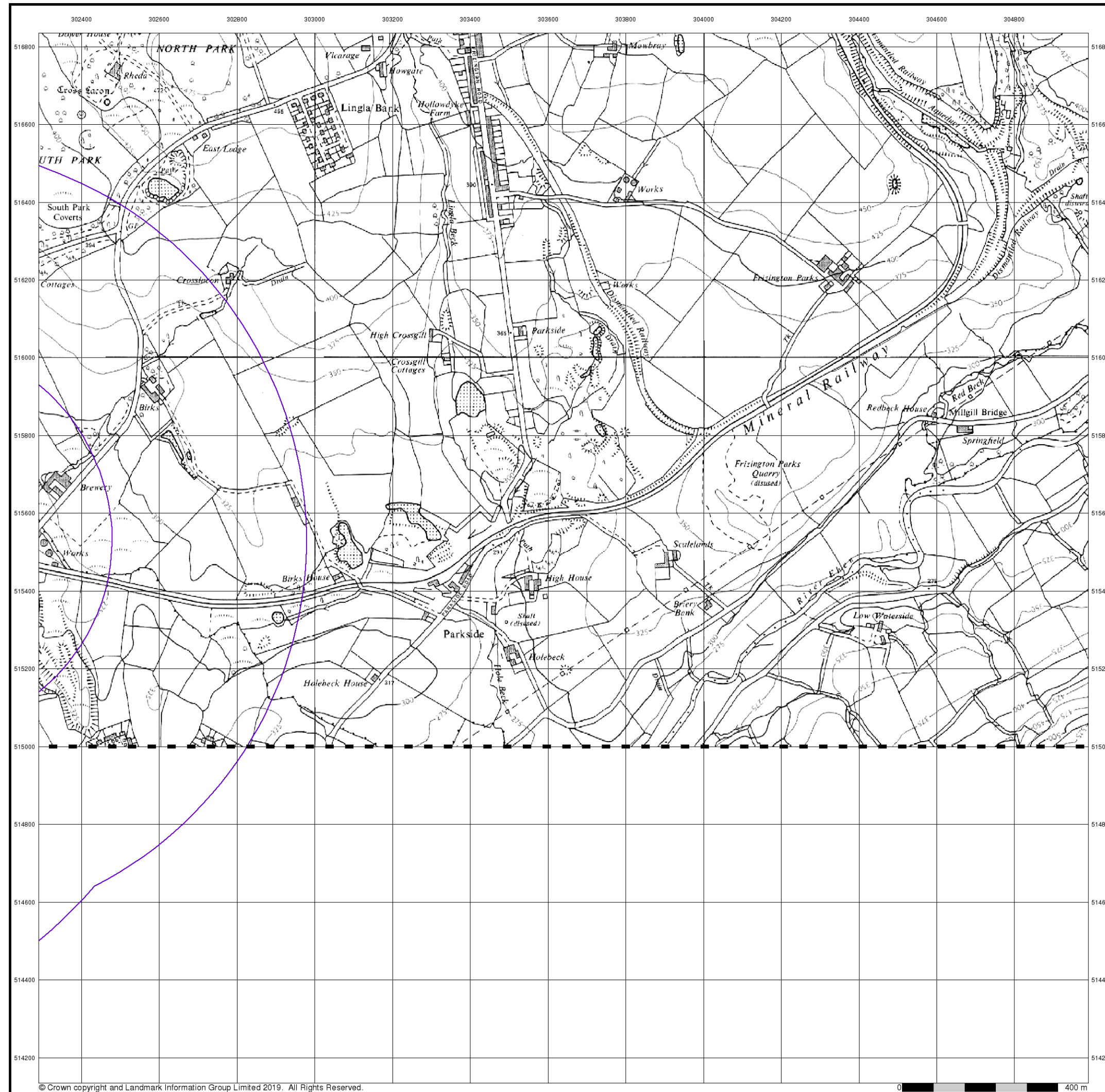
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National Grid Reference: 302570, 515530
Slice: B
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Site Details

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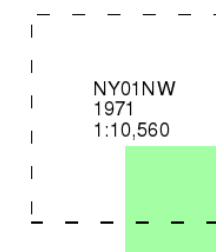
Ordnance Survey Plan

Published 1971

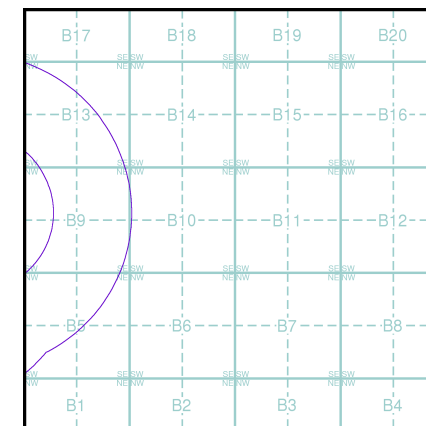
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Map Name(s) and Date(s)



Historical Map - Slice B



Order Details

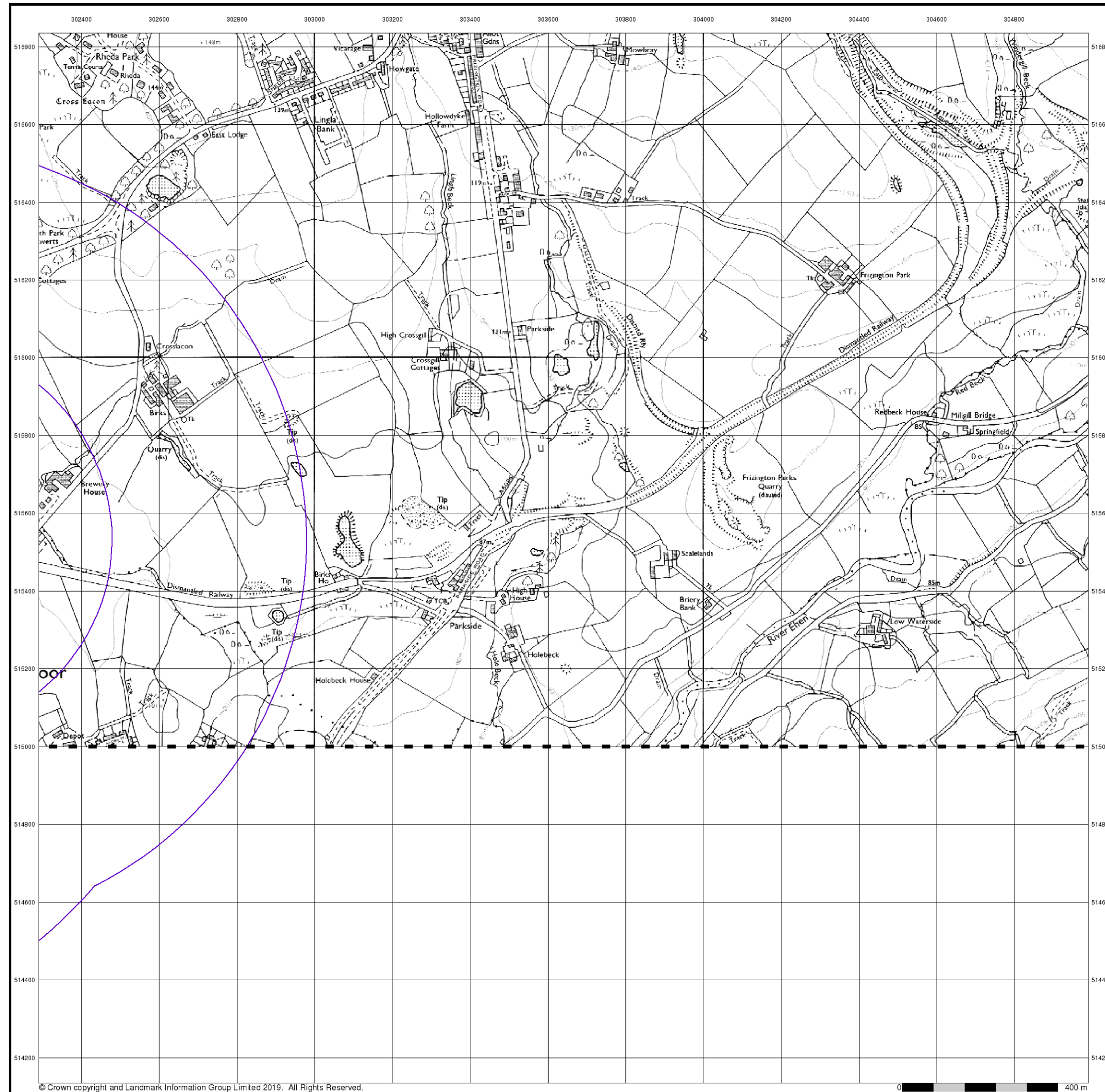
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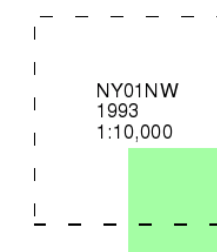
Ordnance Survey Plan

Published 1993

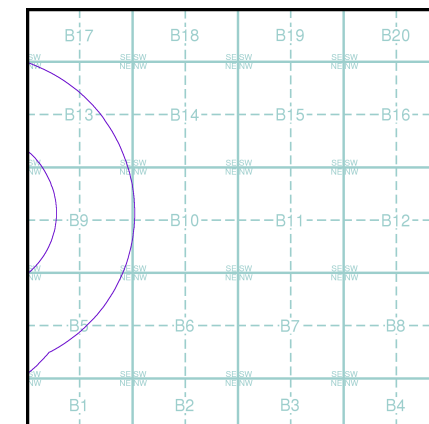
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Map Name(s) and Date(s)



Historical Map - Slice B



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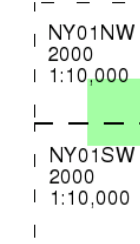
10k Raster Mapping

Published 2000

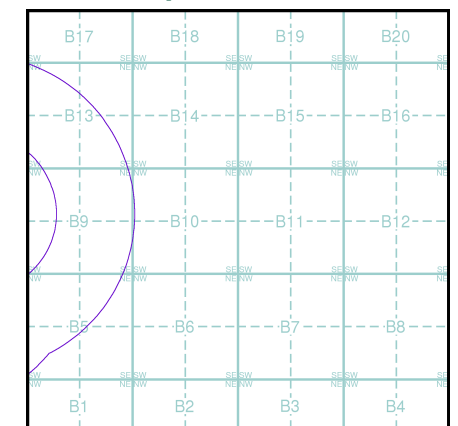
Source map scale - 1:10,000

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 B



Order Details

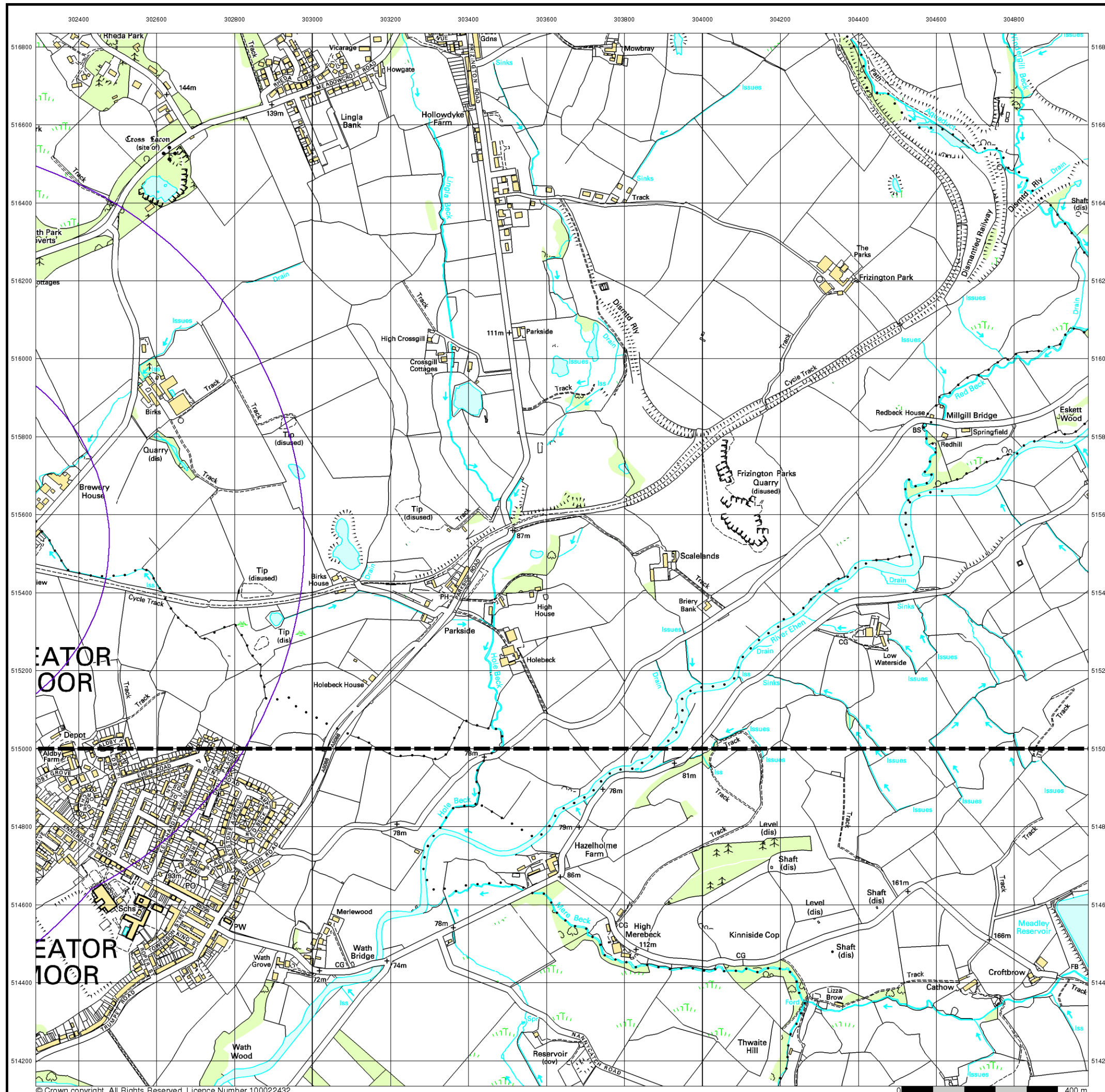
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Slice: B
Site Area (Ha): 15.46
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10k Raster Mapping

Published 2006

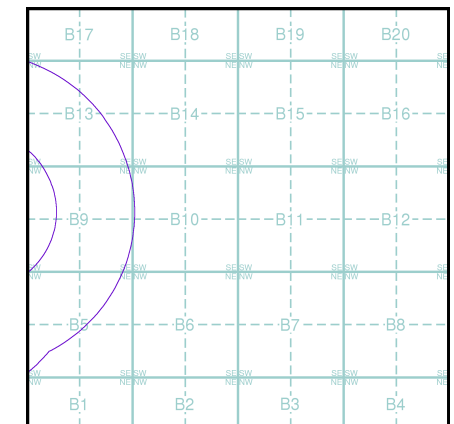
Source map scale - 1:10,000

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Map Name(s) and Date(s)

NY01NW	2006	1:10,000
NY01SW	2006	1:10,000

Historical Map - Slice B



Order Details

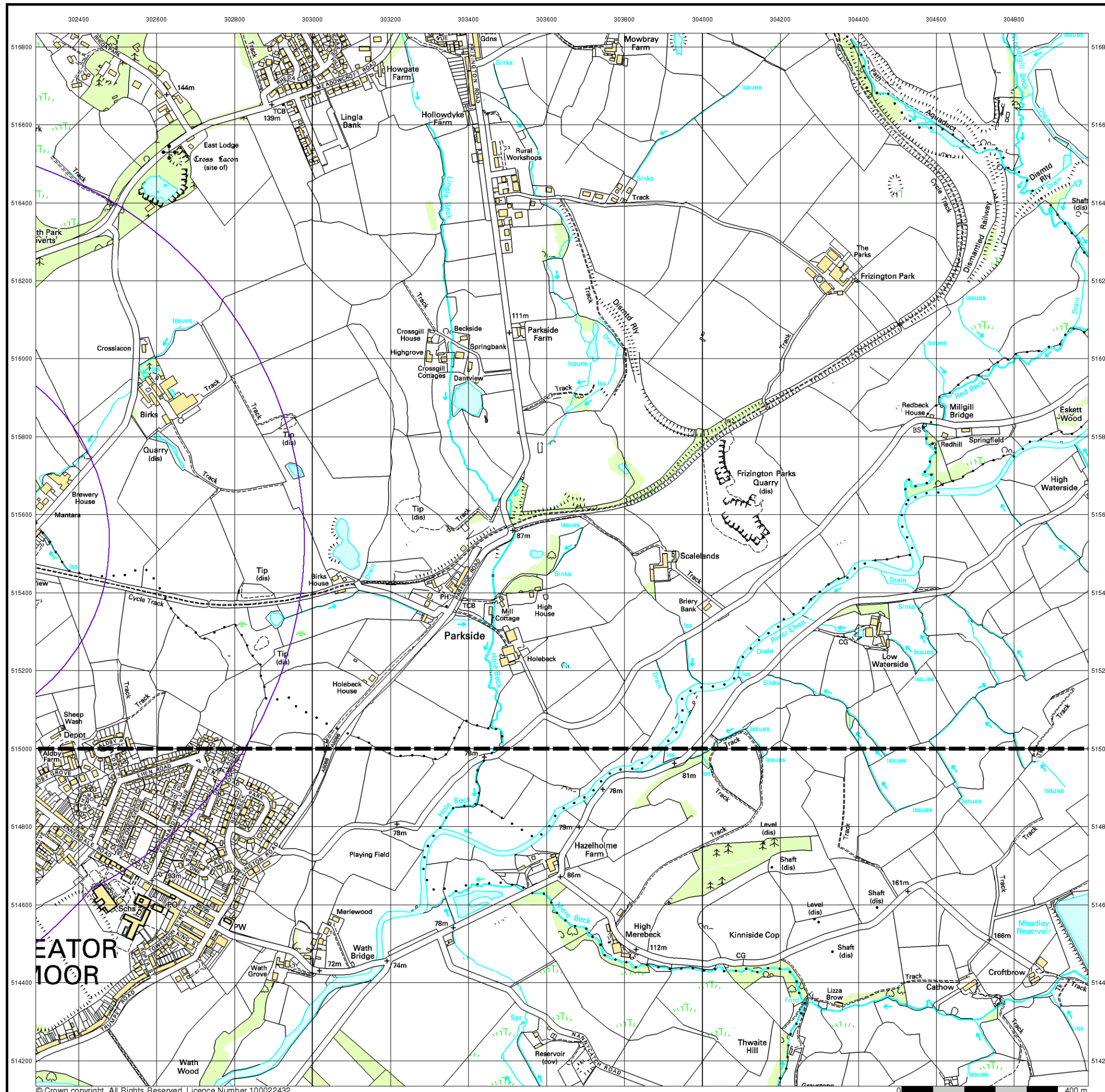
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VectorMap Local

Published 2019

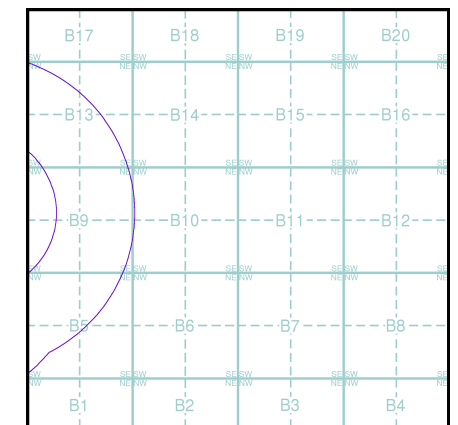
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

NY01NW
2019
Variable
NY01SW
2019
Variable

Historical Map - Slice B



Order Details

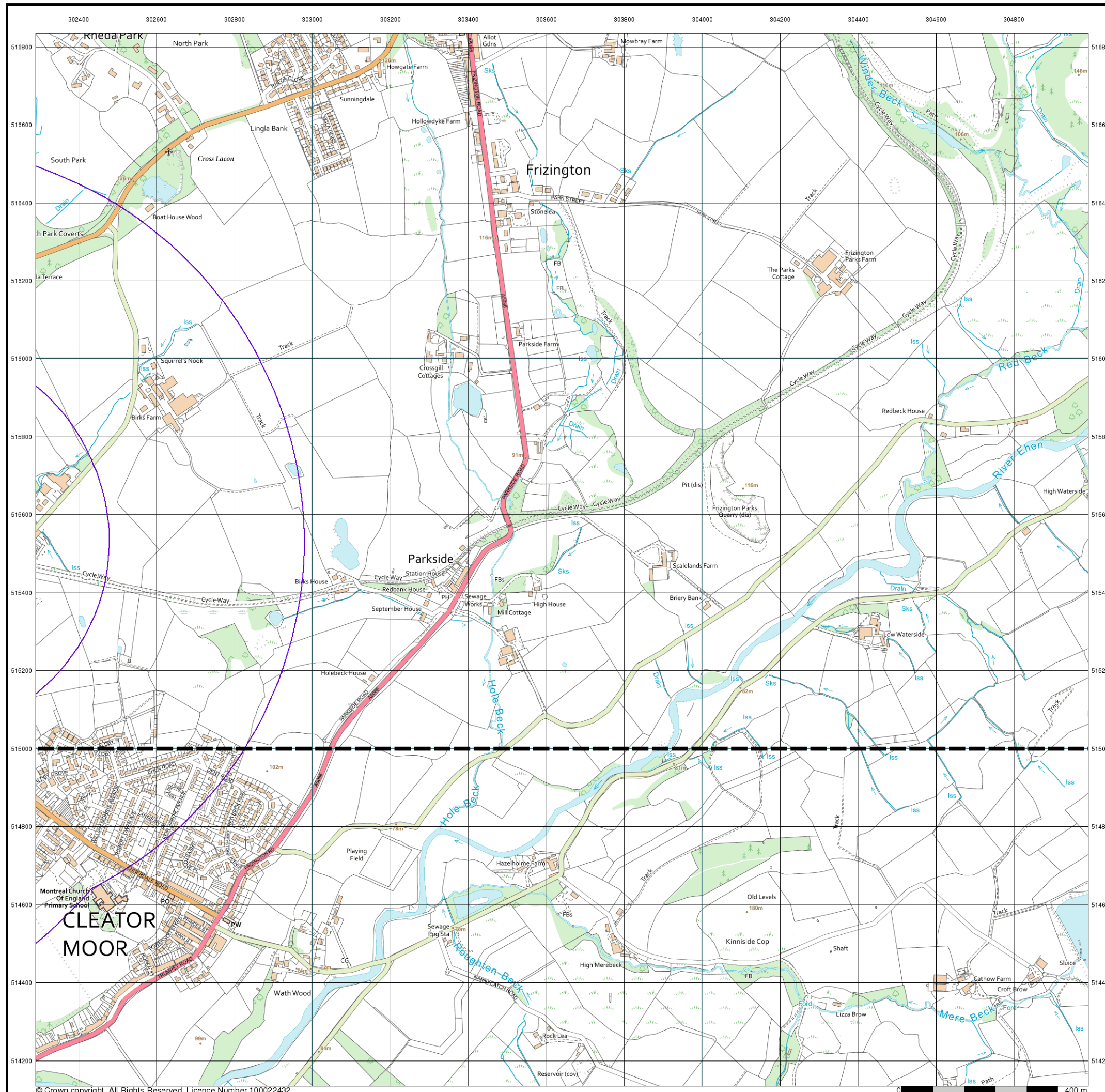
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Site Details

Leconfield Industrial Estate, CLEATOR MOOR, CA25 5QQ

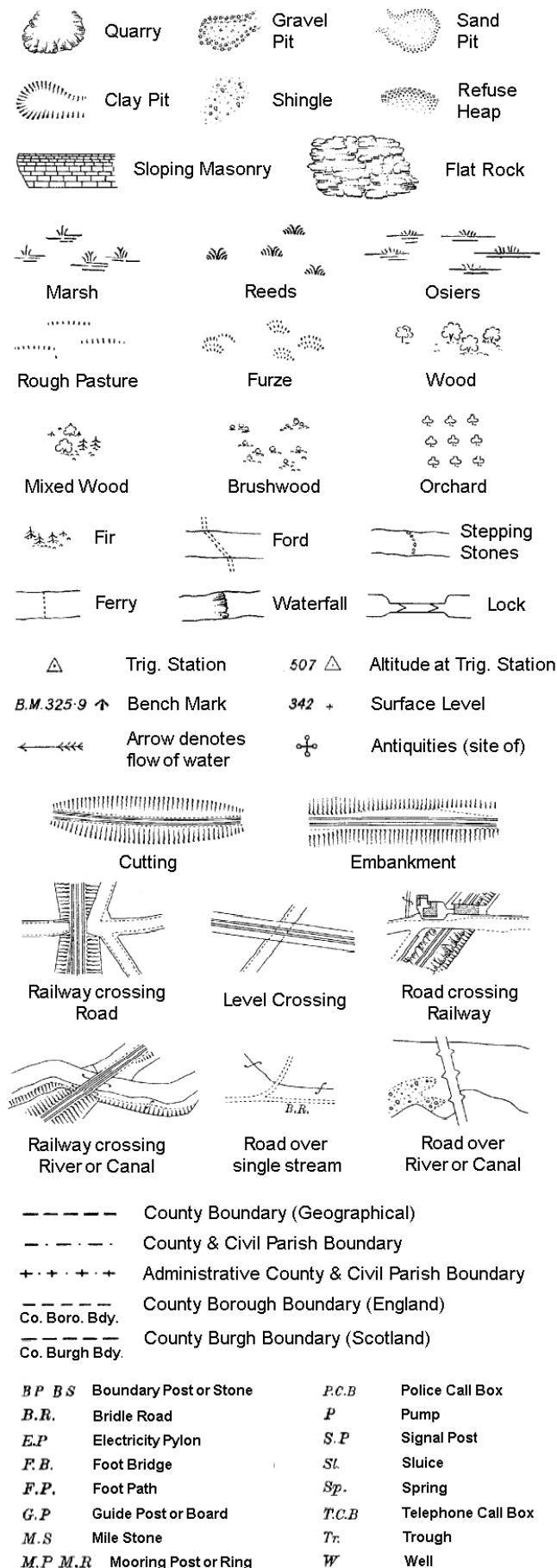
Landmark
INFORMATION GROUP

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Web: www.envirocheck.co.uk

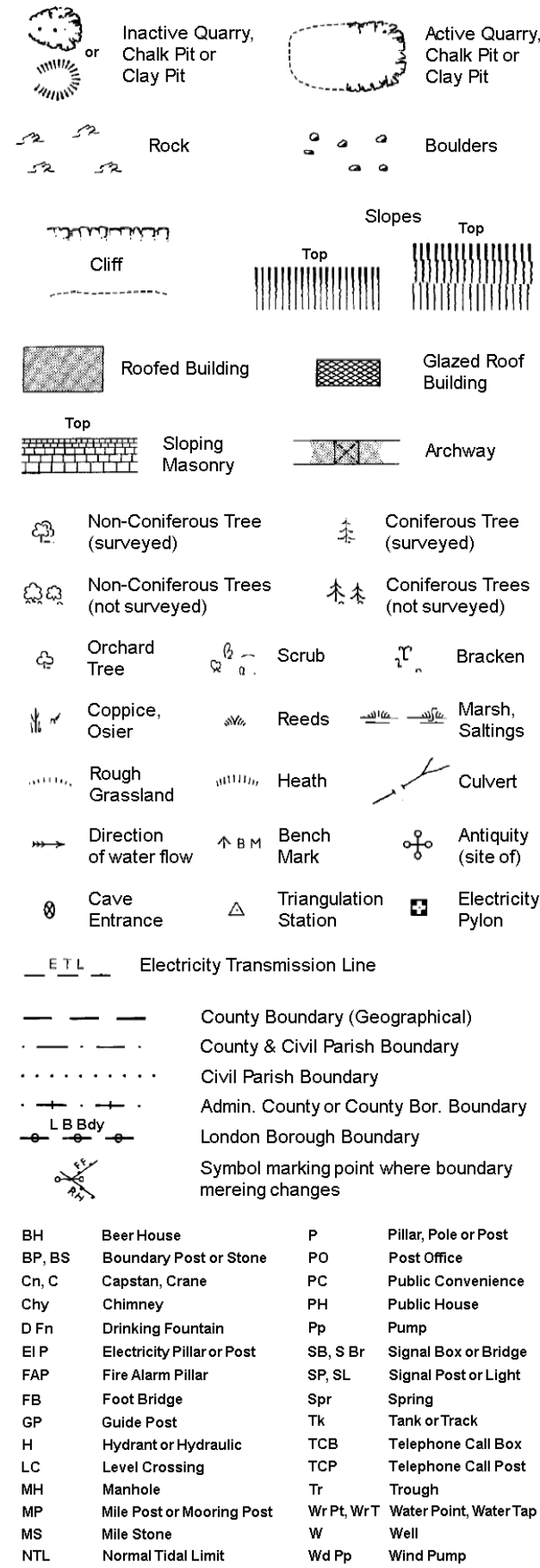


Historical Mapping Legends

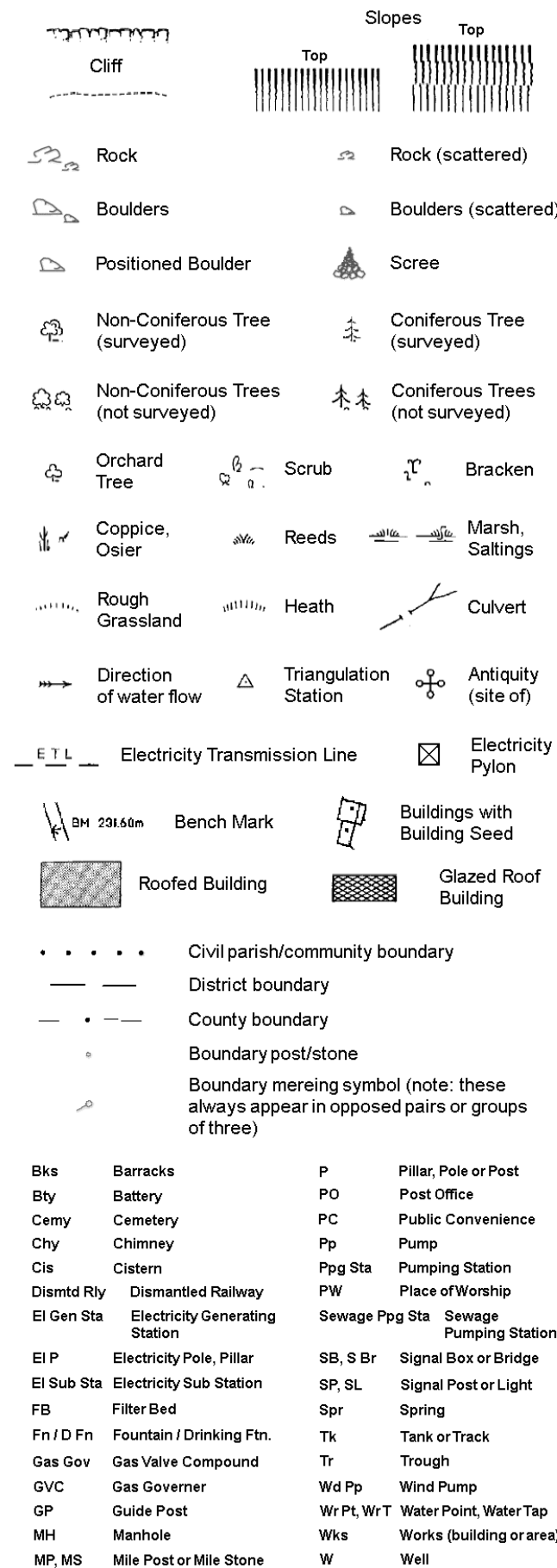
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



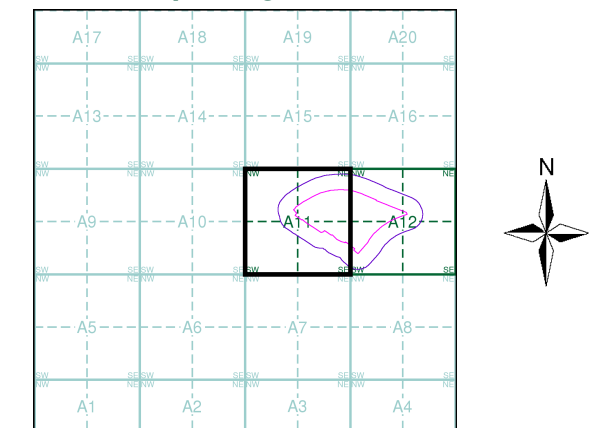
Large-Scale National Grid Data 1:2,500 and 1:1,250



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Cumberland	1:2,500	1863 - 1865	2
Cumberland	1:2,500	1899	3
Cumberland	1:2,500	1925	4
Ordnance Survey Plan	1:2,500	1962	5
Ordnance Survey Plan	1:2,500	1970	6
Additional SIMs	1:2,500	1982 - 1985	7
Additional SIMs	1:2,500	1985 - 1989	8
Ordnance Survey Plan	1:2,500	1989	9
Additional SIMs	1:2,500	1991 - 1992	10
Large-Scale National Grid Data	1:2,500	1994	11
Large-Scale National Grid Data	1:2,500	1995	12
Large-Scale National Grid Data	1:2,500	1995	13
Large-Scale National Grid Data	1:2,500	1996	14
Historical Aerial Photography	1:2,500	2000	15

Historical Map - Segment A11



Order Details

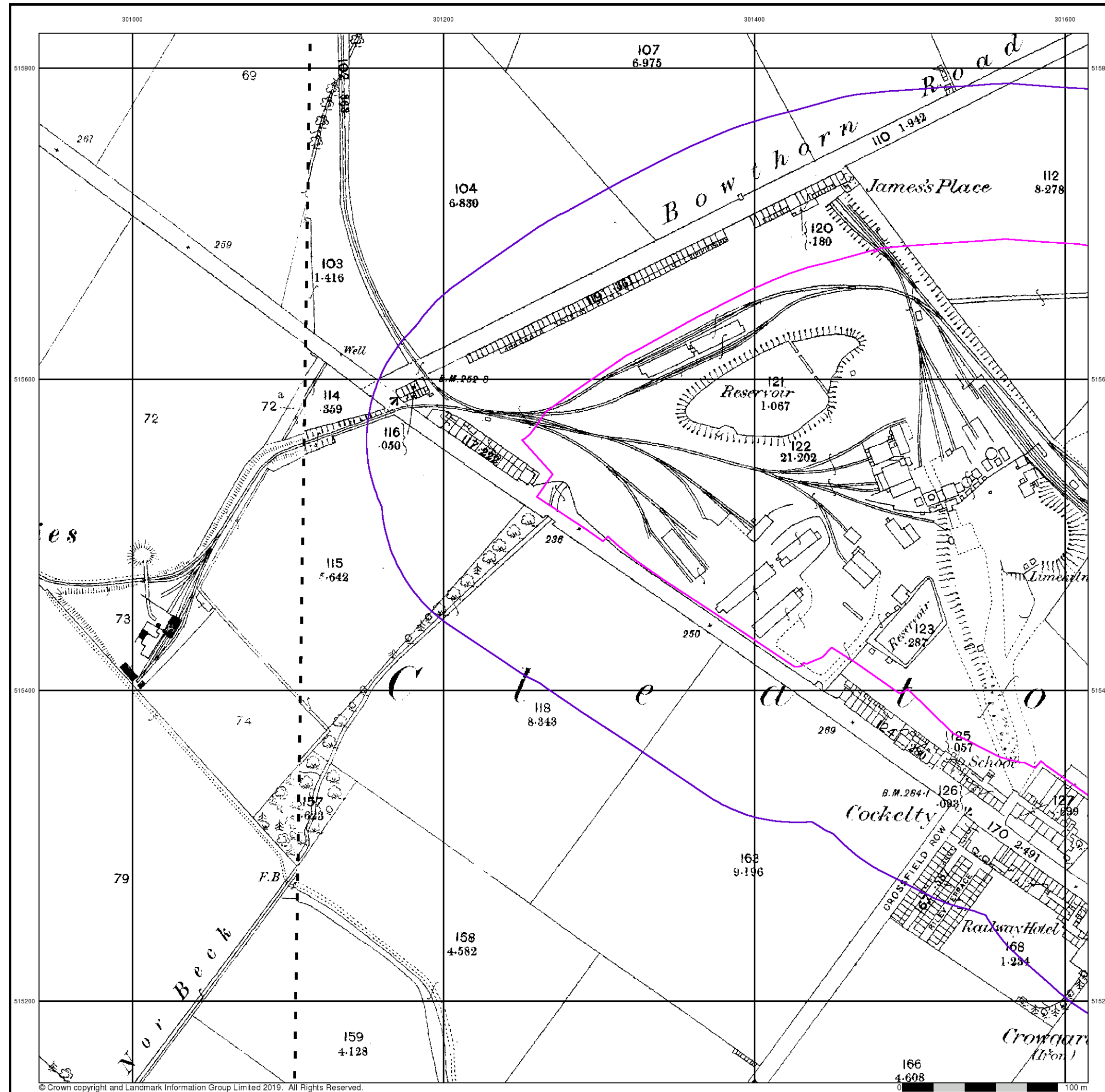
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Customer Ref: A114312
National Grid Reference: 301380, 515510
Slice: A
Site Area (Ha): 15.46
Search Buffer (m): 100

Site Details

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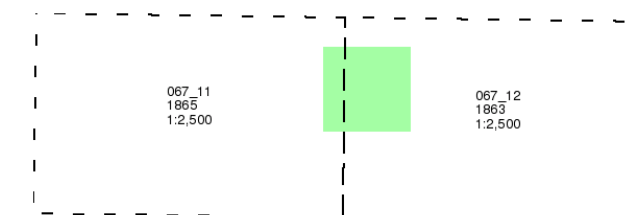
Cumberland

Published 1863 - 1865

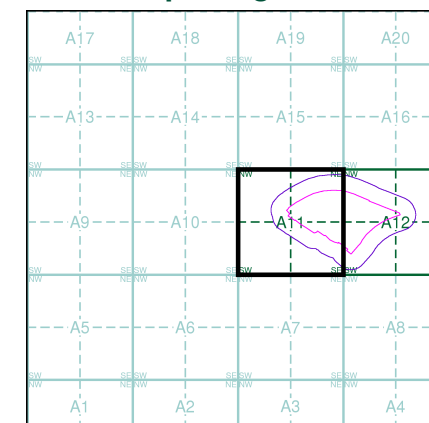
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

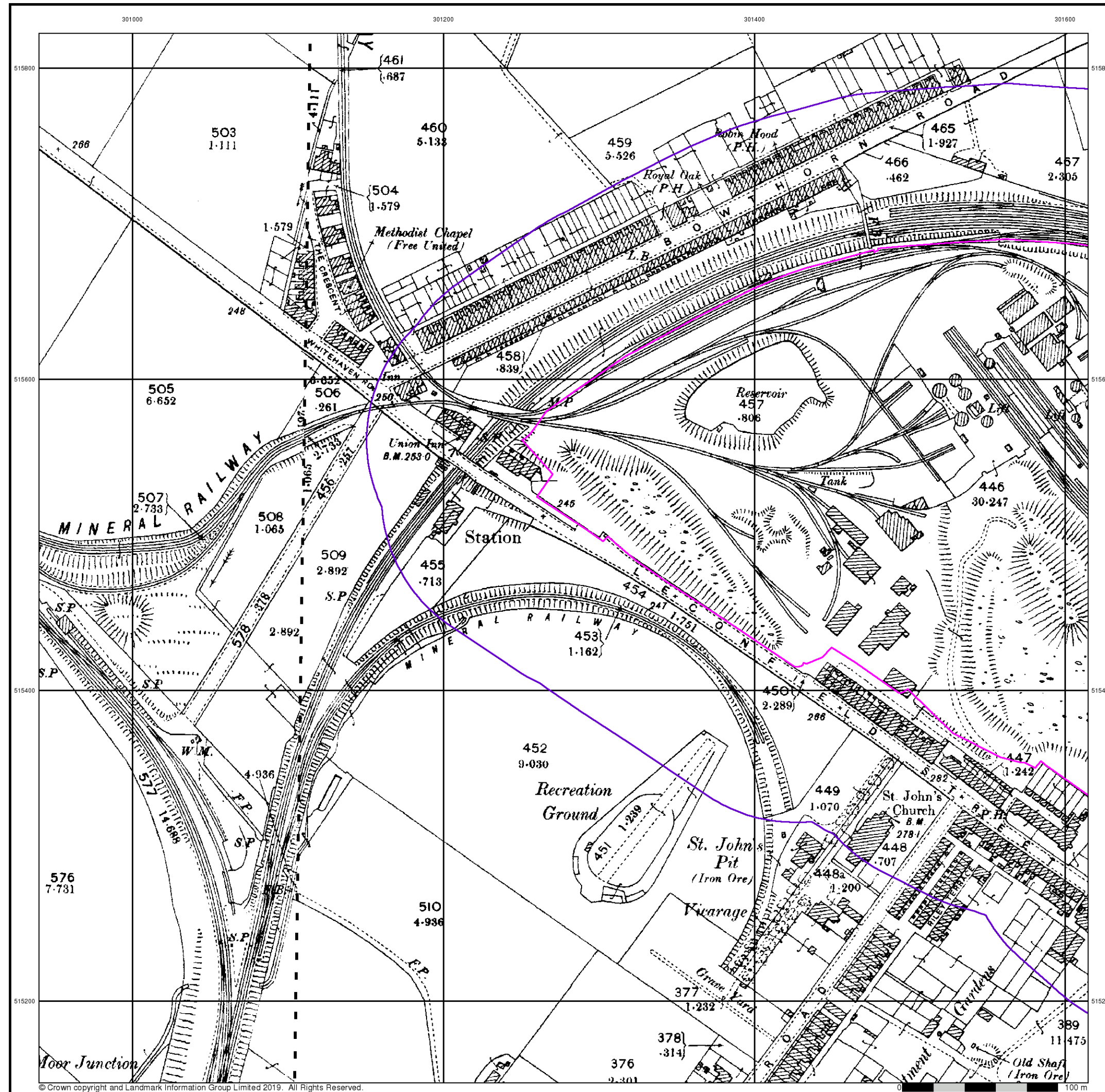
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National Grid Reference: 301380, 515510
Slice: A
Site Area (Ha): 15.46
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Site Details

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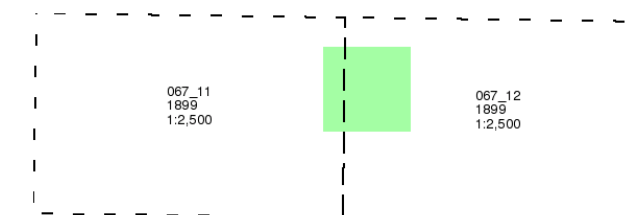
Cumberland

Published 1899

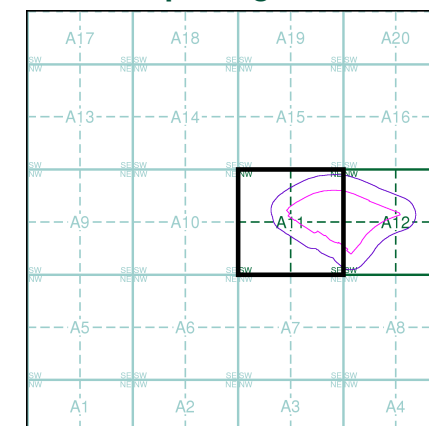
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

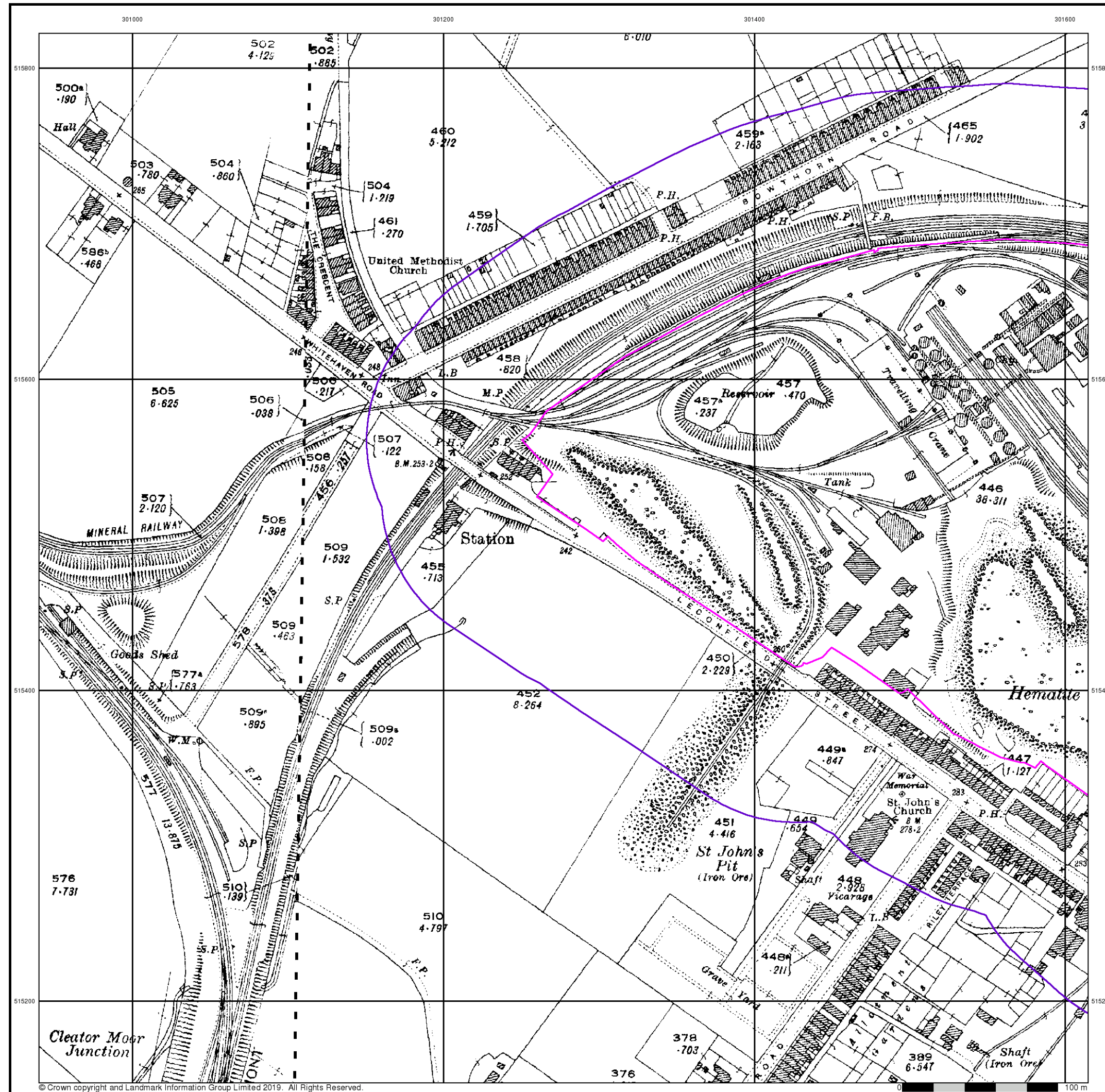
Order Number: 224379683_1_1
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National Grid Reference: 301380, 515510
Slice: A
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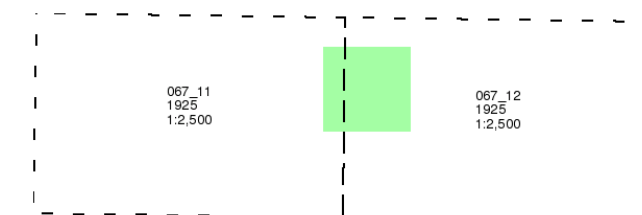
Cumberland

Published 1925

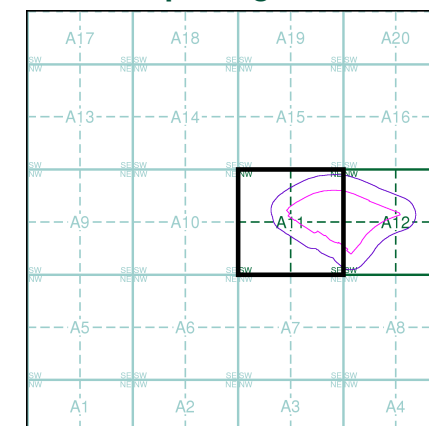
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered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

Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

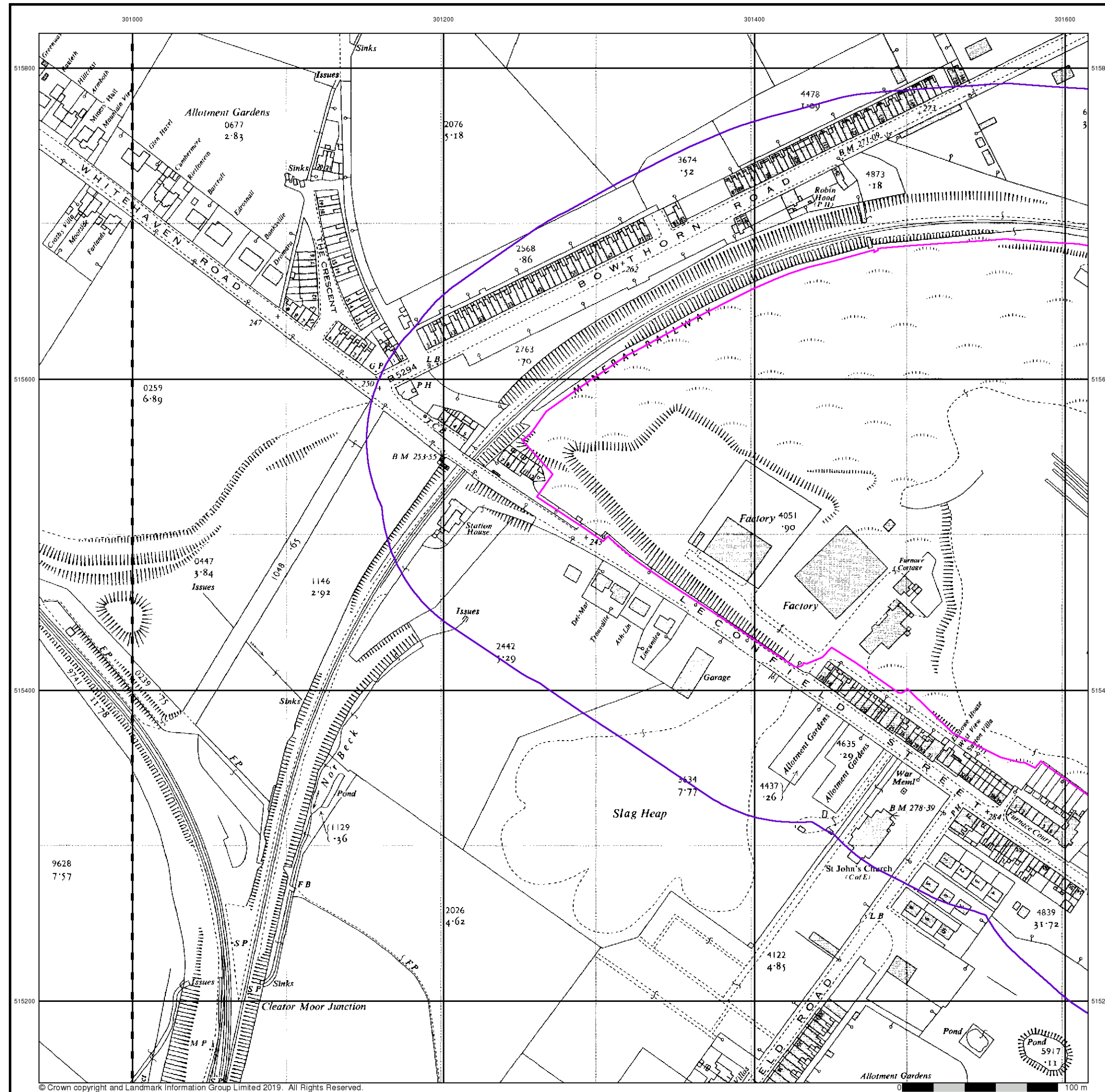
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National Grid Reference: 301380, 515510
Slice: A
Site Area (Ha): 15.46
Search Buffer (m): 100

Site Details

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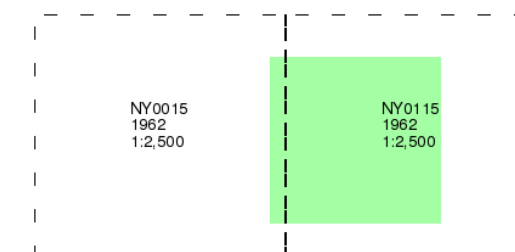
Ordnance Survey Plan

Published 1962

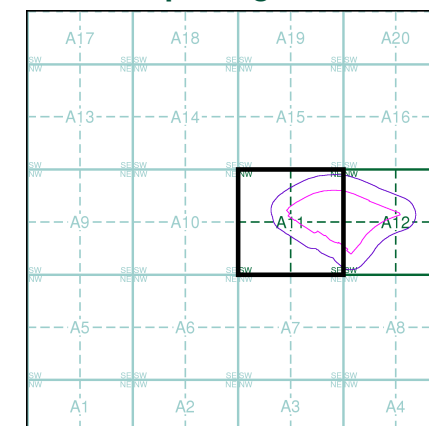
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

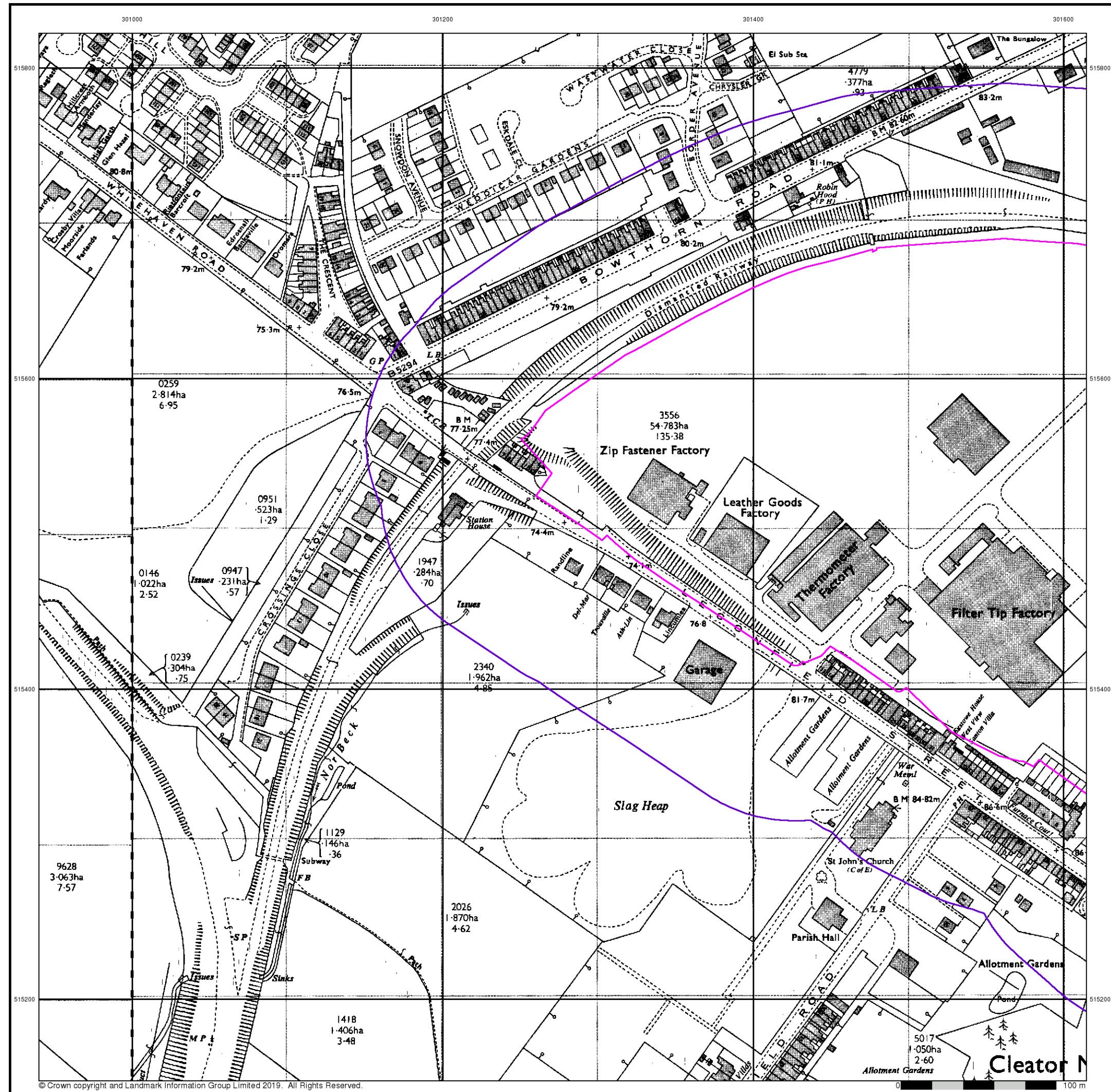
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Customer Ref: A114312
National Grid Reference: 301380, 515510
Slice: A
Site Area (Ha): 15.46
Search Buffer (m): 100

Site Details

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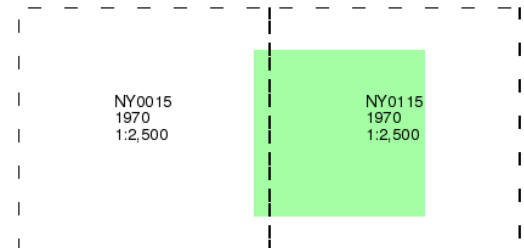
Ordnance Survey Plan

Published 1970

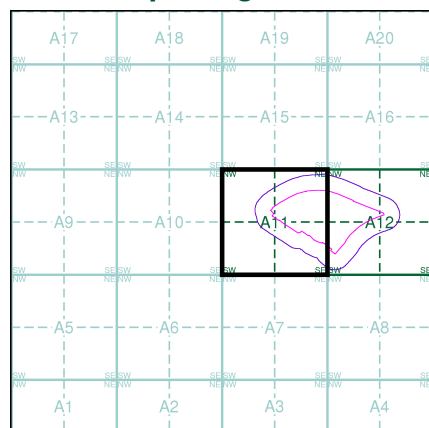
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered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

Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

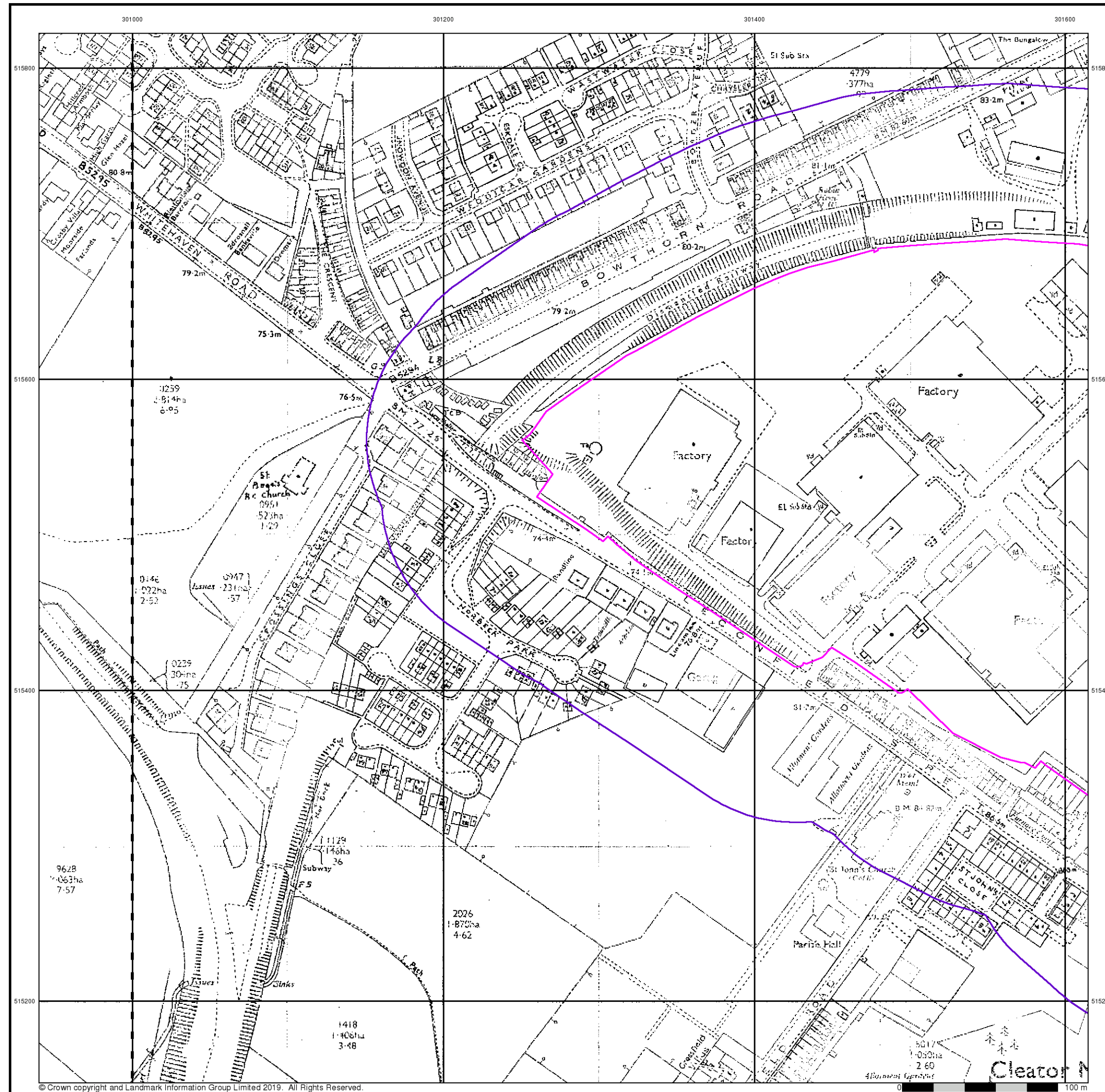
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National Grid Reference: 301380, 515510
Slice: A
Site Area (Ha): 15.46
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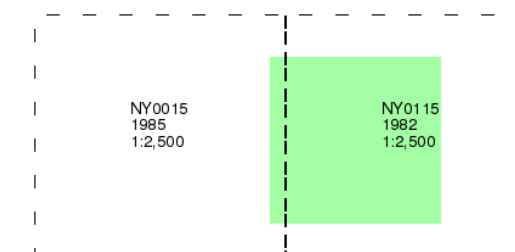
Additional SIMs

Published 1982 - 1985

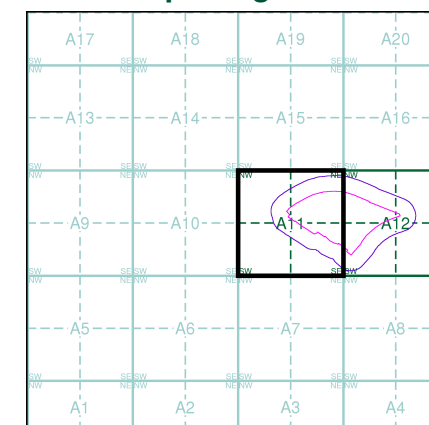
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

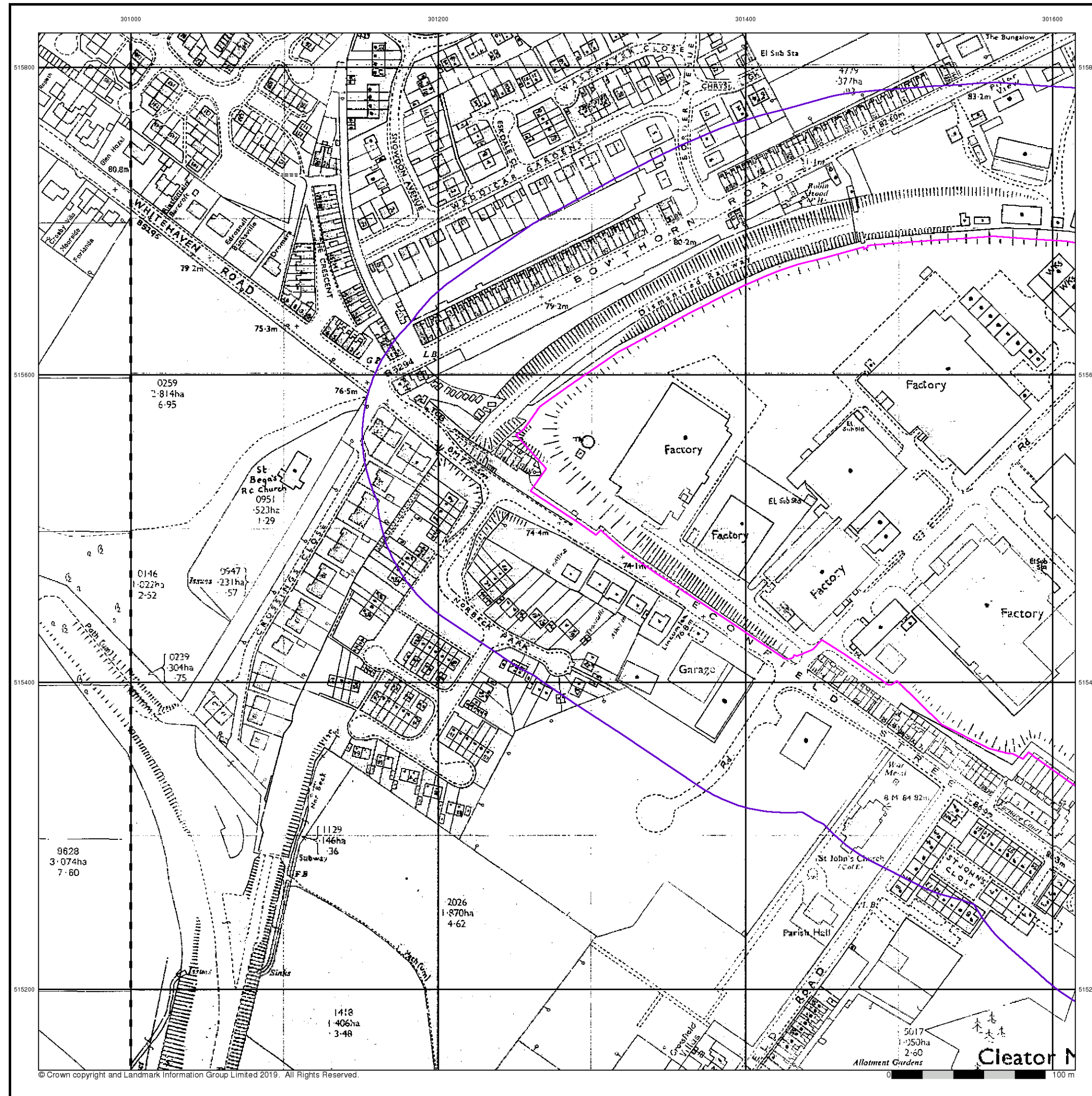
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Customer Ref: A114312
National Grid Reference: 301380, 515510
Slice: A
Site Area (Ha): 15.46
Search Buffer (m): 100

Site Details

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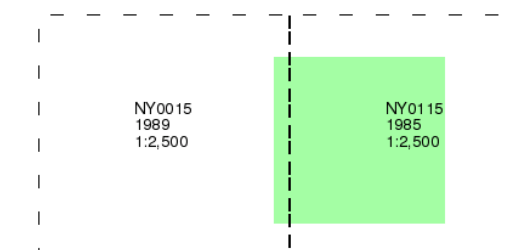
Additional SIMs

Published 1985 - 1989

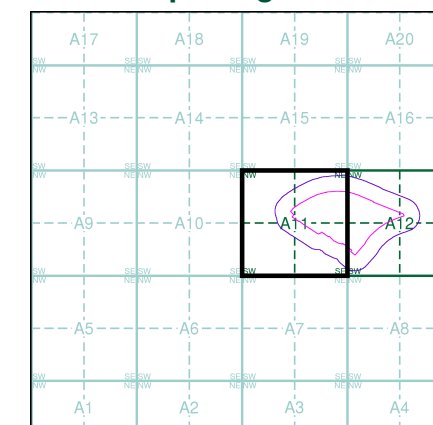
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The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information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

Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

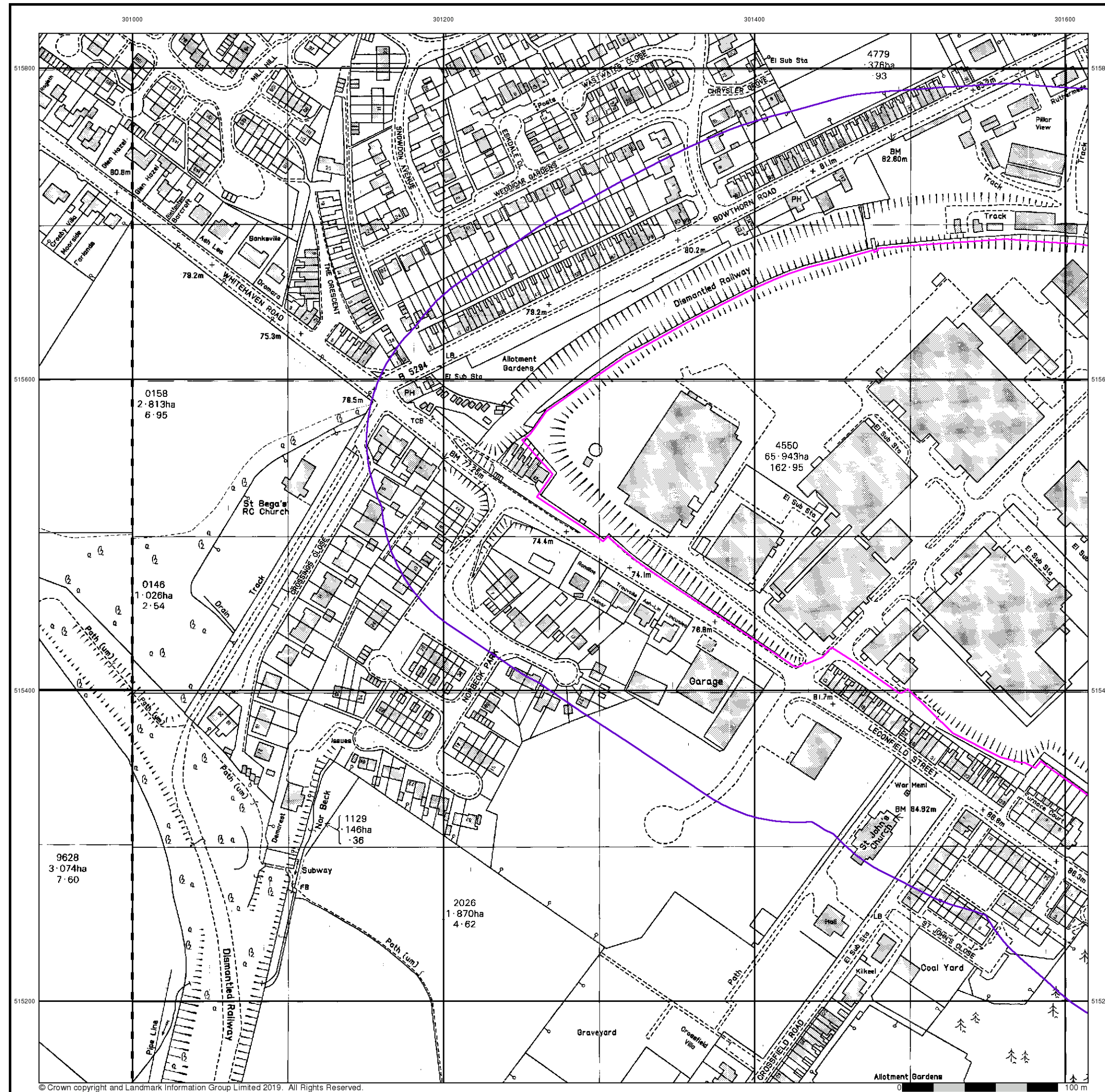
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Customer Ref: A114312
National Grid Reference: 301380, 515510
Slice: A
Site Area (Ha): 15.46
Search Buffer (m): 100

Site Details

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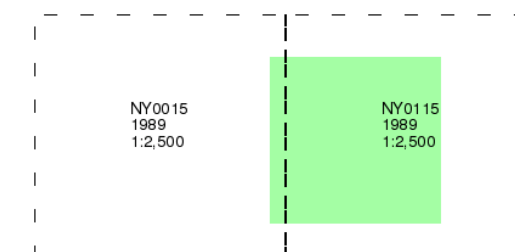
Ordnance Survey Plan

Published 1989

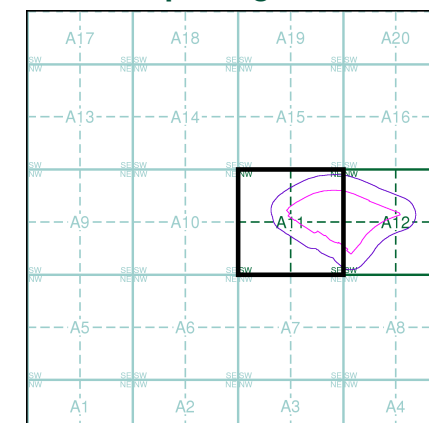
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

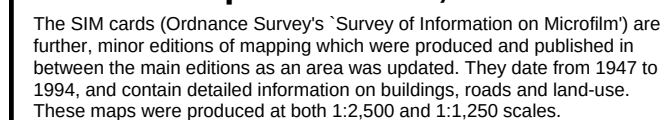
Order Number: 224379683_1_1
Customer Ref: A114312
National Grid Reference: 301380, 515510
Slice: A
Site Area (Ha): 15.46
Search Buffer (m): 100

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NY0015
1992
1:2,500

NY0115
1992
1:2,500

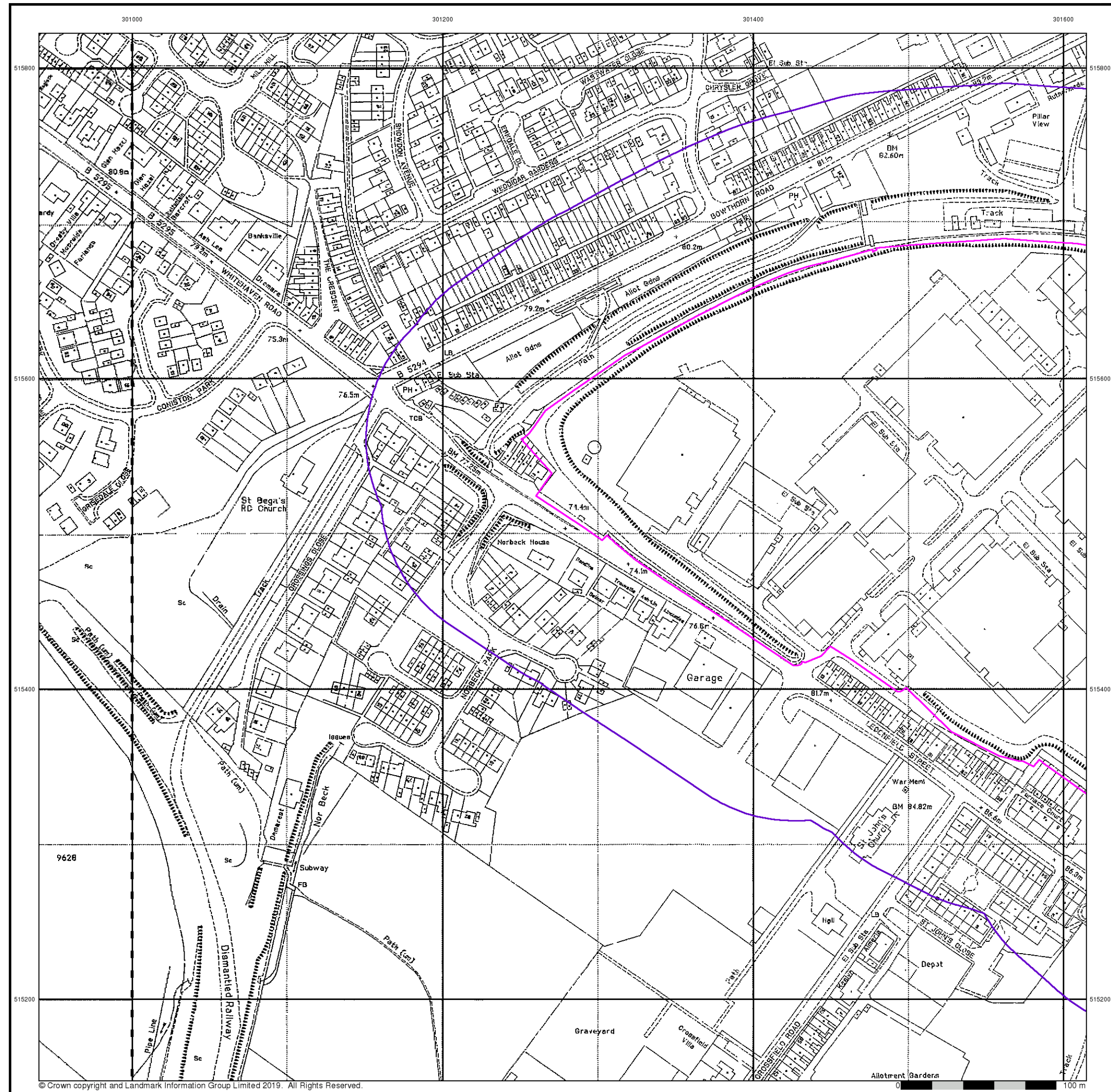
The figure shows a 10x10 grid map. The horizontal axis is labeled A1 through A10, and the vertical axis is labeled A1 through A10. A rectangular area is highlighted in the center, spanning from A5 to A7 horizontally and A9 to A10 vertically. Within this highlighted area, a specific region is outlined in red, representing the area of interest for the study.



Order Number:	224379683_1_1
Customer Ref:	A114312
National Grid Reference:	301380, 515510
Slice:	A
Site Area (Ha):	15.46
Search Buffer (m):	100

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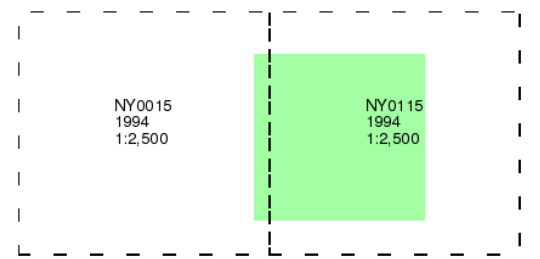
Large-Scale National Grid Data

Published 1994

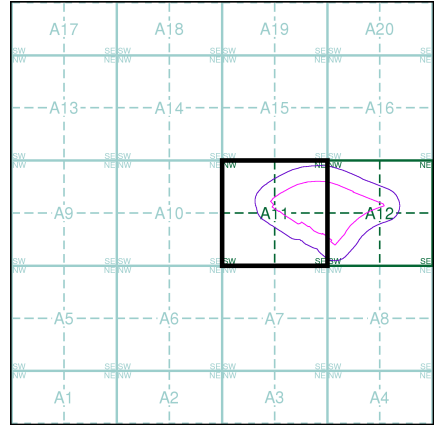
Source map scale - 1:2,500

'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 A11



Order Details

Order Number: 224379683_1_1
Customer Ref: A114312
National Grid Reference: 301380, 515510
Slice: A
Site Area (Ha): 15.46
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Site Details

Leconfield Industrial Estate, CLEATOR MOOR, CA25 5QQ

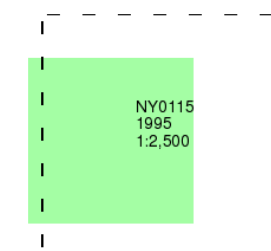


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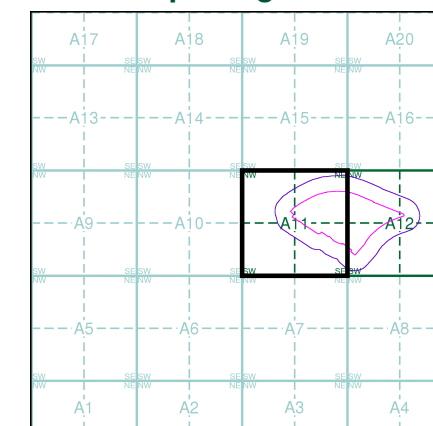


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Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

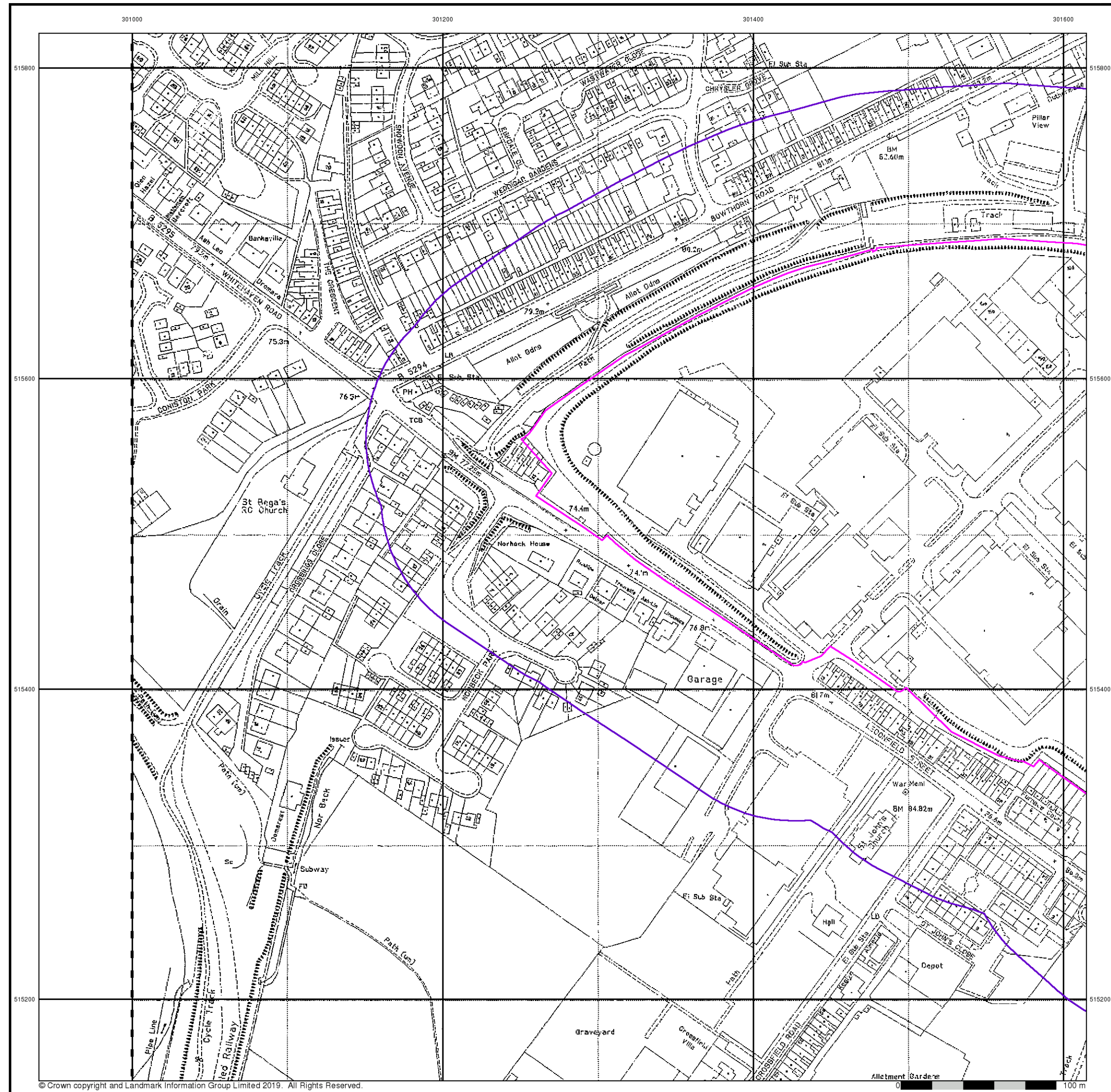
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Slice:	A
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Search Buffer (m):	100

Site Details

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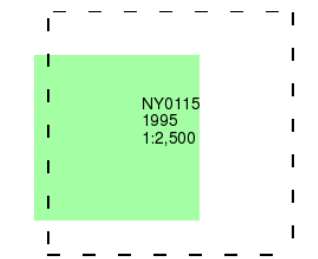
Large-Scale National Grid Data

Published 1995

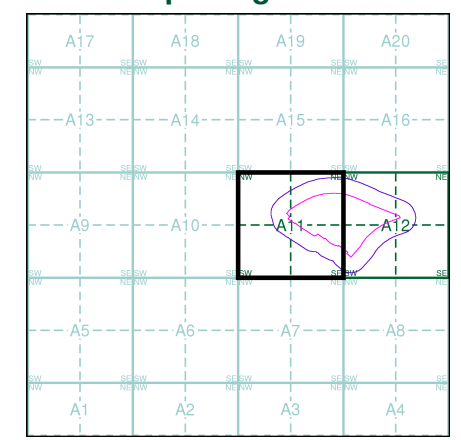
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

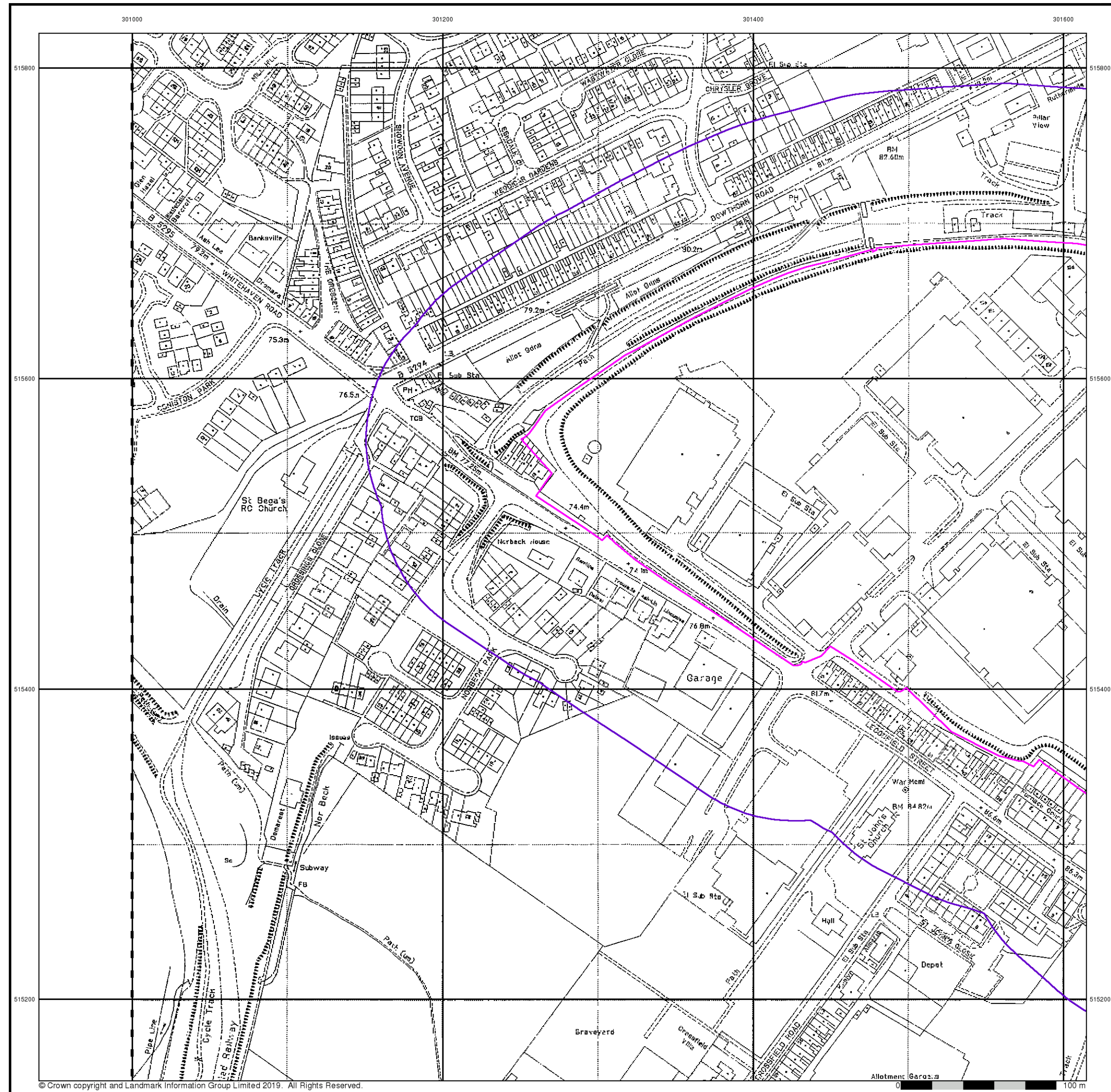
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Customer Ref: A114312
National Grid Reference: 301380, 515510
Slice: A
Site Area (Ha): 15.46
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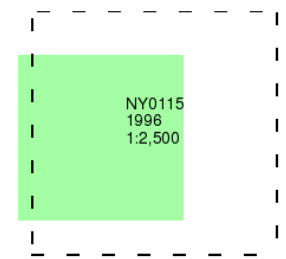
Large-Scale National Grid Data

Published 1996

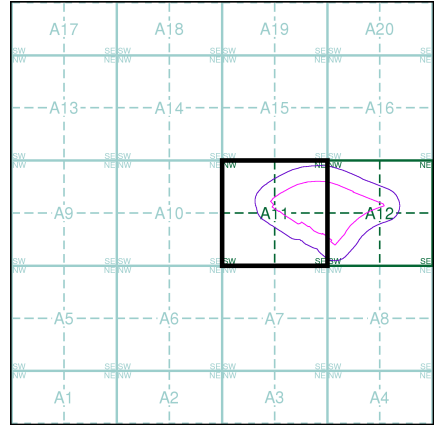
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

Order Number: 224379683_1_1
Customer Ref: A114312
National Grid Reference: 301380, 515510
Slice: A
Site Area (Ha): 15.46
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Site Details

Leconfield Industrial Estate, CLEATOR MOOR, CA25 5QQ



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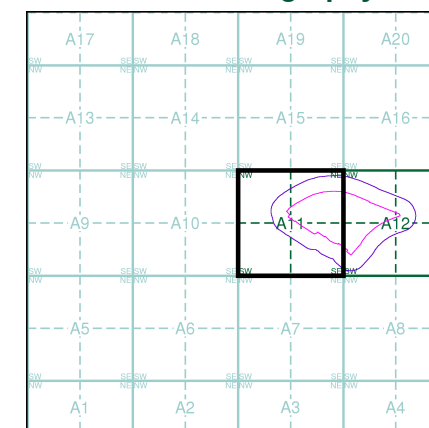


Historical Aerial Photography

Published 2000

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

Historical Aerial Photography - Segment A11



Order Details

Order Number: 224379683_1_1
Customer Ref: A114312
National Grid Reference: 301380, 515510
Slice: A
Site Area (Ha): 15.46
Search Buffer (m): 100

Site Details

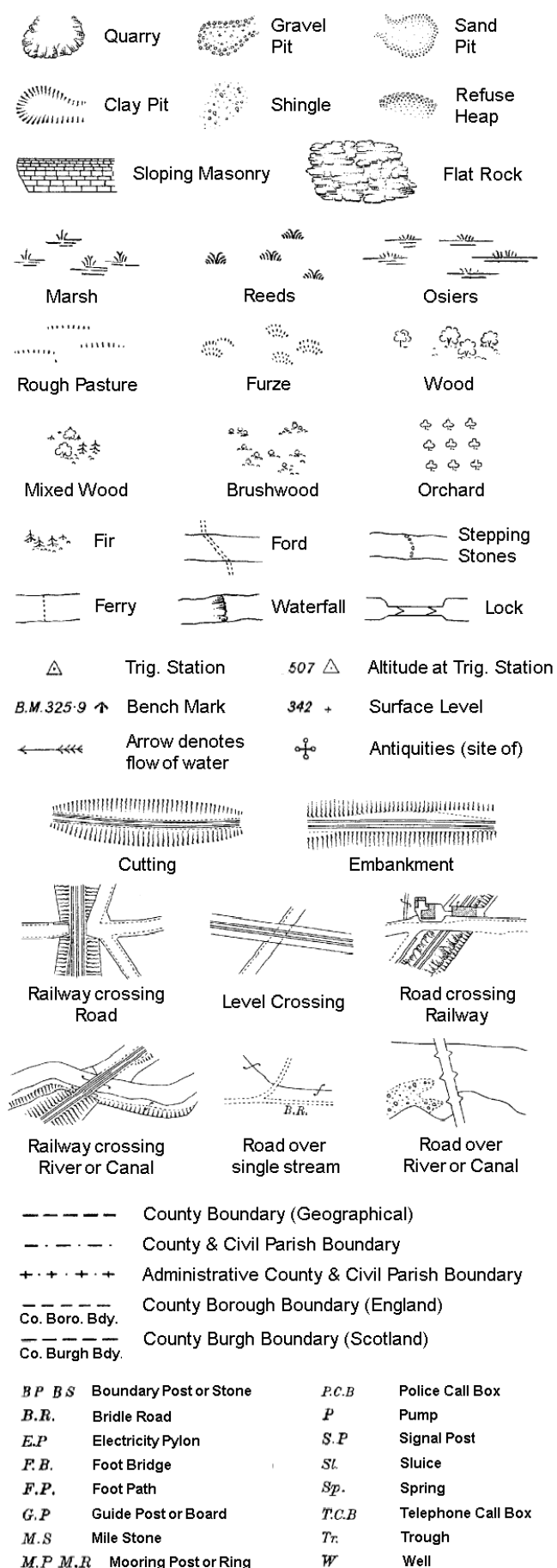
Leconfield Industrial Estate, CLEATOR MOOR, CA25 5QQ

Landmark
INFORMATION GROUP

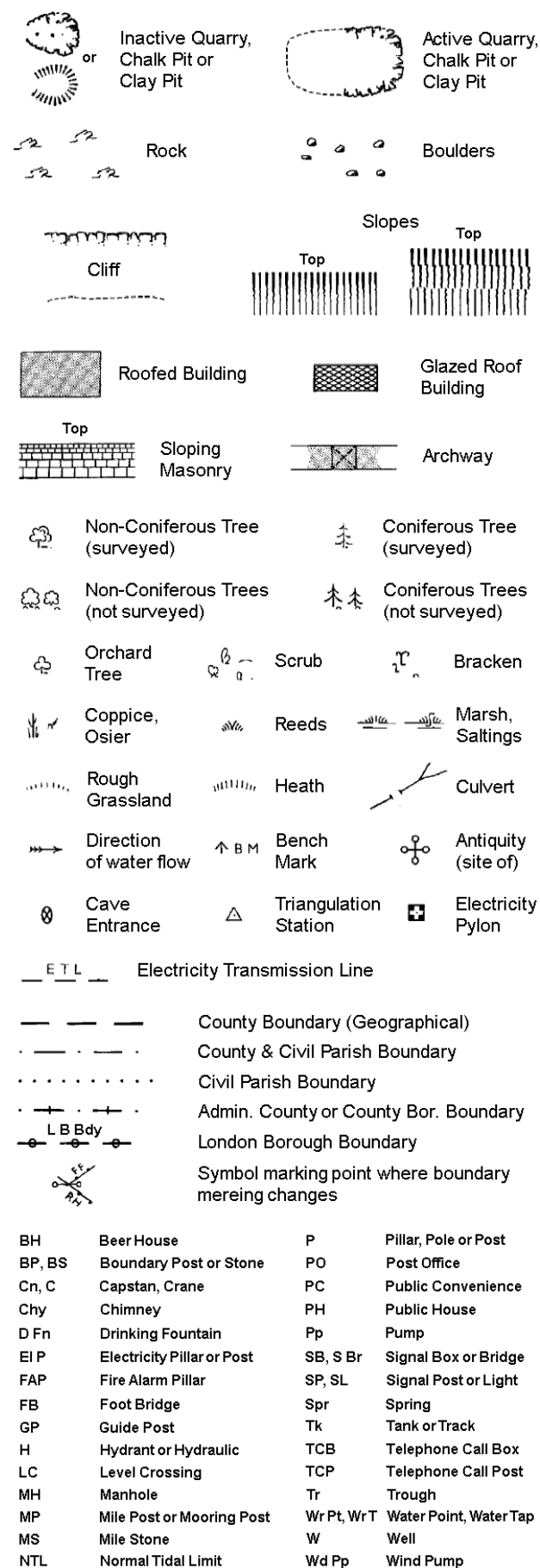
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

Historical Mapping Legends

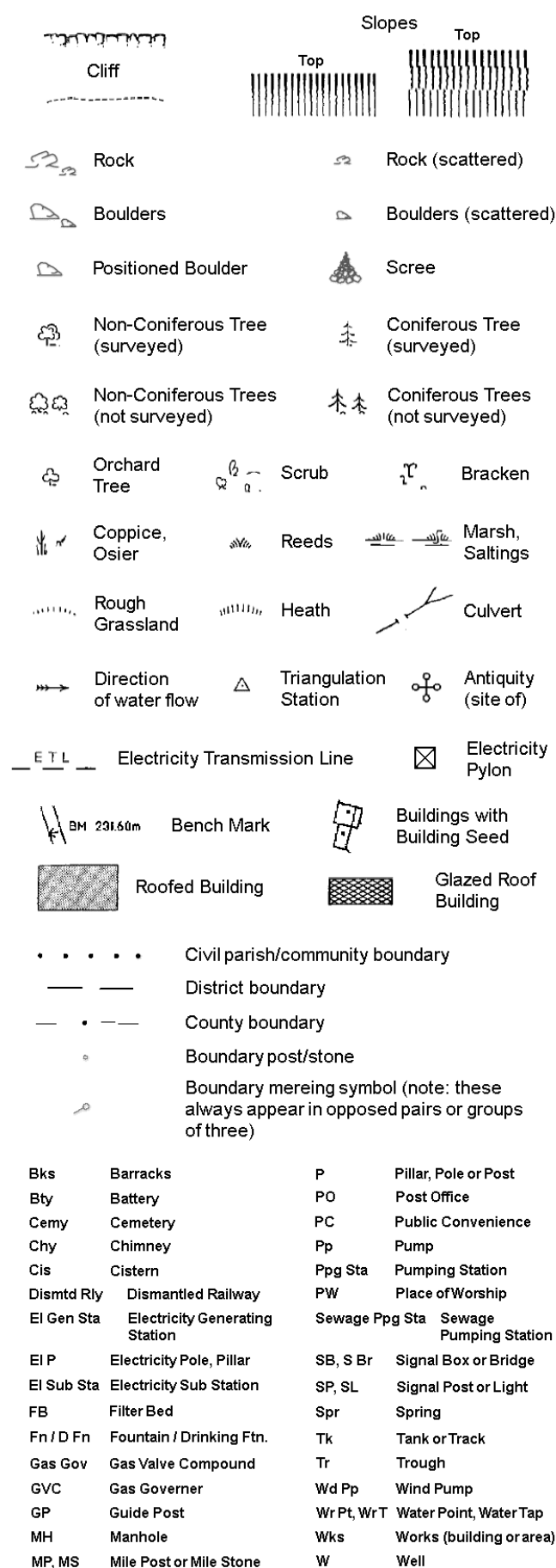
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



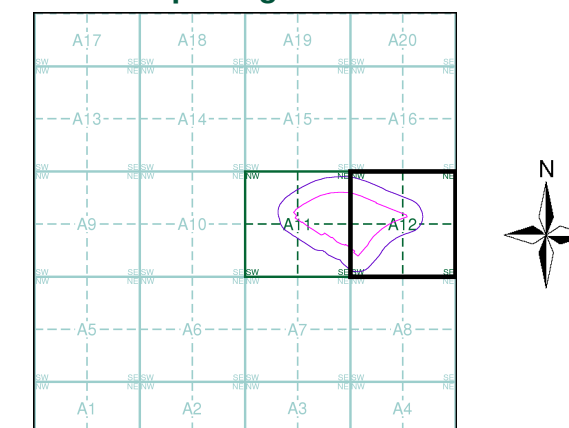
Large-Scale National Grid Data 1:2,500 and 1:1,250



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Page
Cumberland	1:2,500	1863	2
Cumberland	1:2,500	1899	3
Cumberland	1:2,500	1925	4
Ordnance Survey Plan	1:2,500	1962	5
Additional SIMs	1:2,500	1962 - 1982	6
Ordnance Survey Plan	1:2,500	1970	7
Additional SIMs	1:2,500	1985	8
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Large-Scale National Grid Data	1:2,500	1995	12
Large-Scale National Grid Data	1:2,500	1995	13
Large-Scale National Grid Data	1:2,500	1996	14
Historical Aerial Photographs	1:2,500	2000	15

Historical Map - Segment A12



Order Details

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Customer Ref: A114312
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Slice: A
Site Area (Ha): 15.46
Search Buffer (m): 100

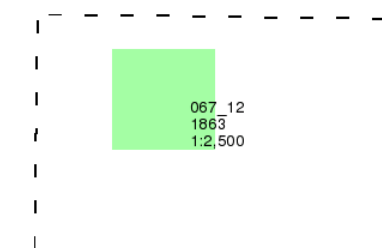
Site Details

Leconfield Industrial Estate, CLEATOR MOOR, CA25 5QQ

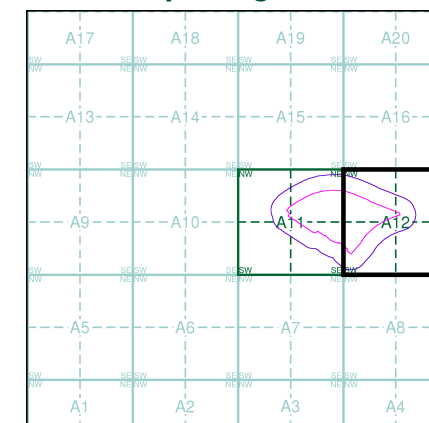


The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. 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 A12



Order Details

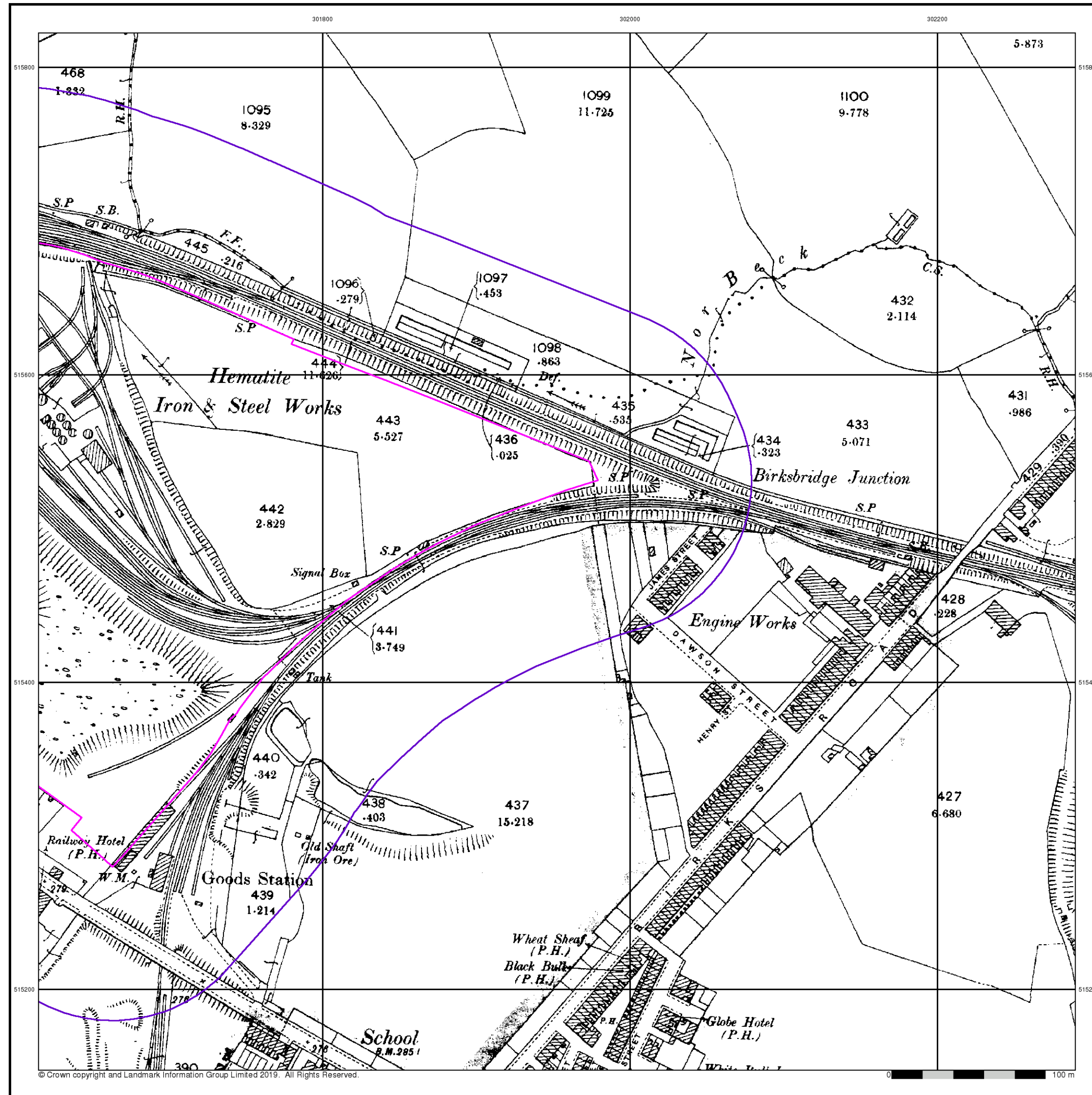
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Slice: A
Site Area (Ha): 15.46
Search Buffer (m): 100

Site Details

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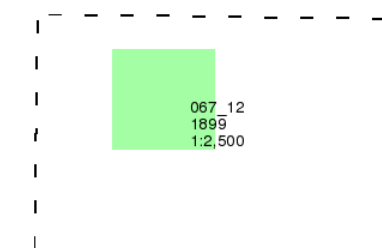
Cumberland

Published 1899

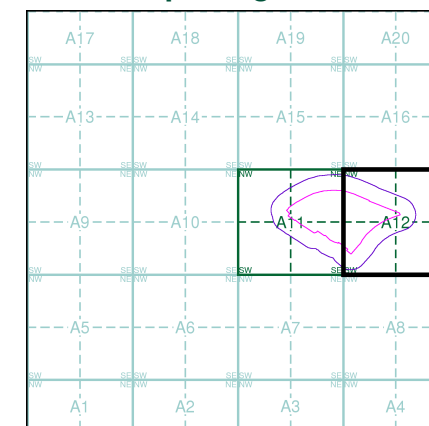
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Map Name(s) and Date(s)



Historical Map - Segment A12



Order Details

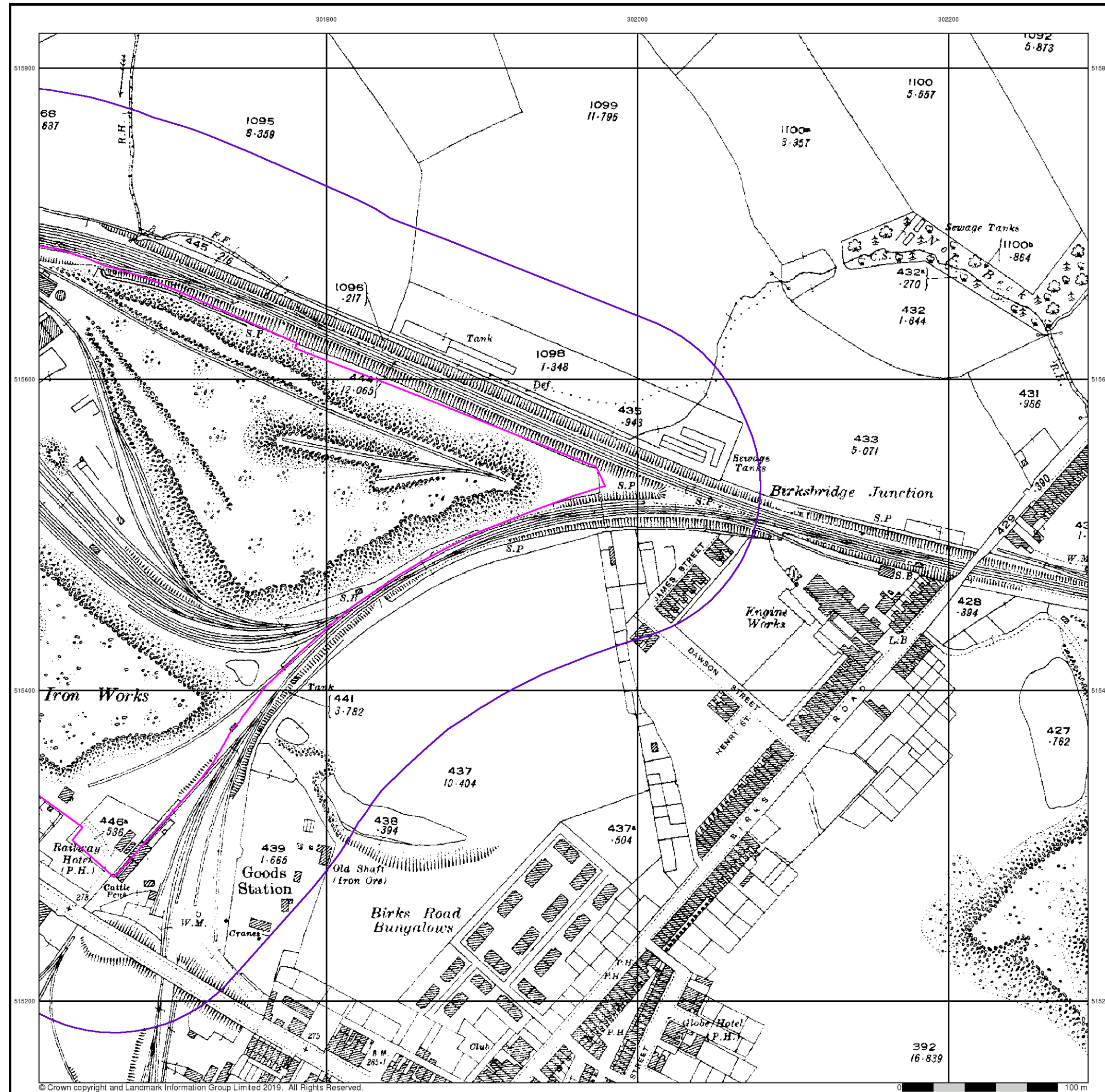
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Search Buffer (m): 100

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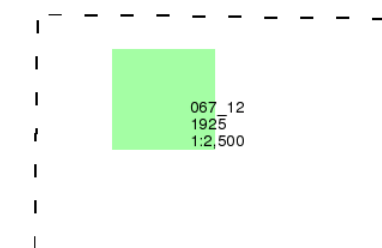
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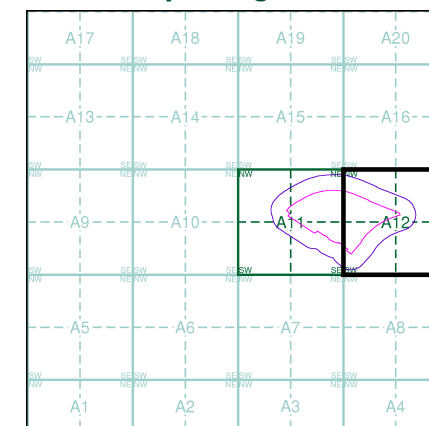
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Map Name(s) and Date(s)



Historical Map - Segment A12



Order Details

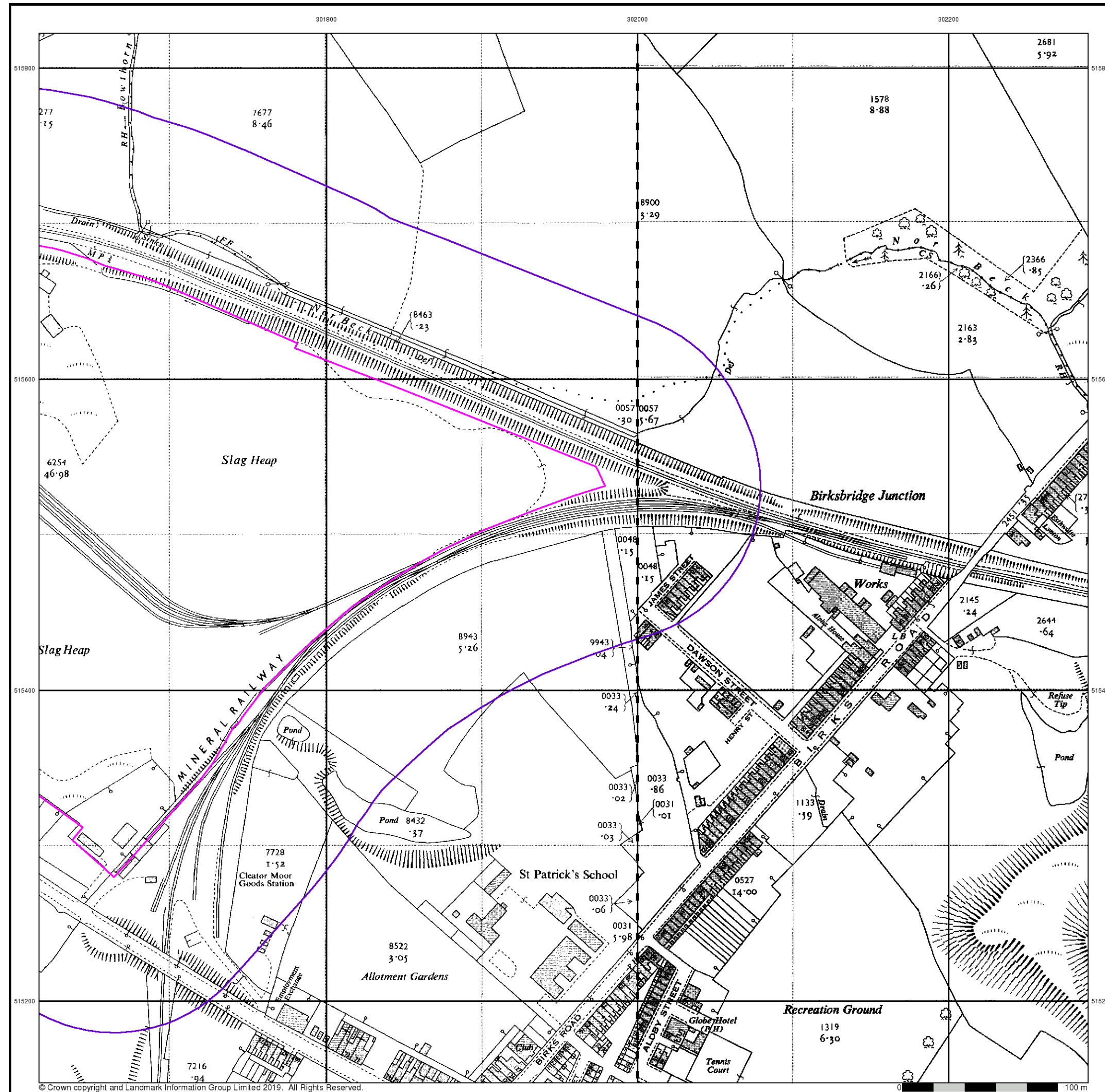
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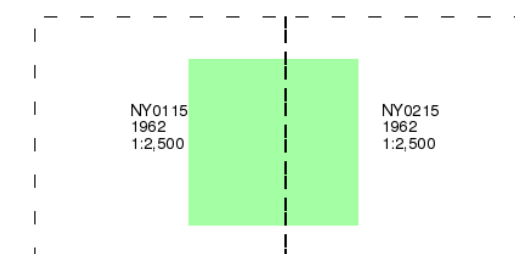
Ordnance Survey Plan

Published 1962

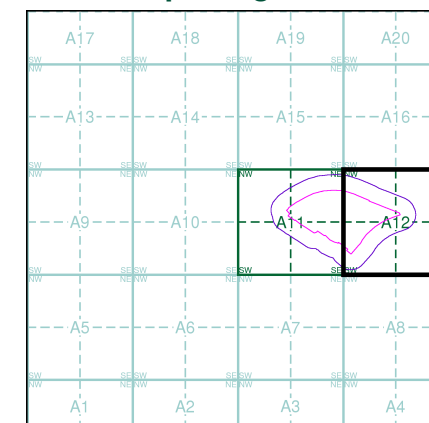
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Order Details

Order Number: 224379683_1_1
Customer Ref: A114312
National Grid Reference: 301380, 515510
Slice: A
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Search Buffer (m): 100

Site Details

Leconfield Industrial Estate, CLEATOR MOOR, CA25 5QQ

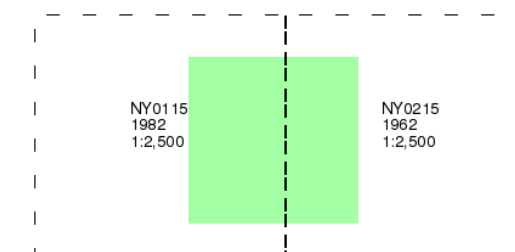
Landmark
INFORMATION GROUP

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Web: www.envirocheck.co.uk

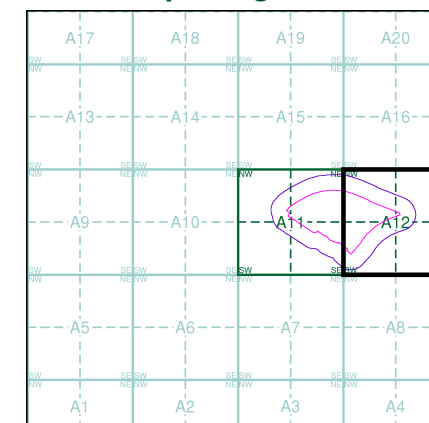


The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps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

Map Name(s) and Date(s)



Historical Map - Segment A12



Order Details

Order Number:	224379683_1_1
Customer Ref:	A114312
National Grid Reference:	301380, 515510
Slice:	A
Site Area (Ha):	15.46
Search Buffer (m):	100

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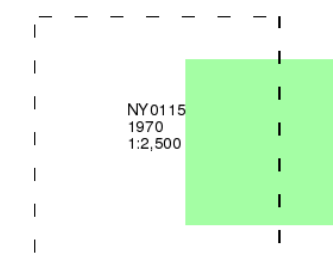
Ordnance Survey Plan

Published 1970

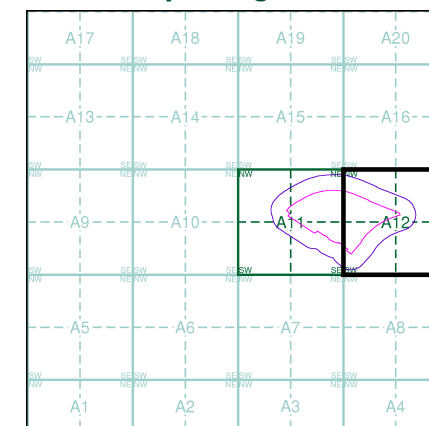
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Order Details

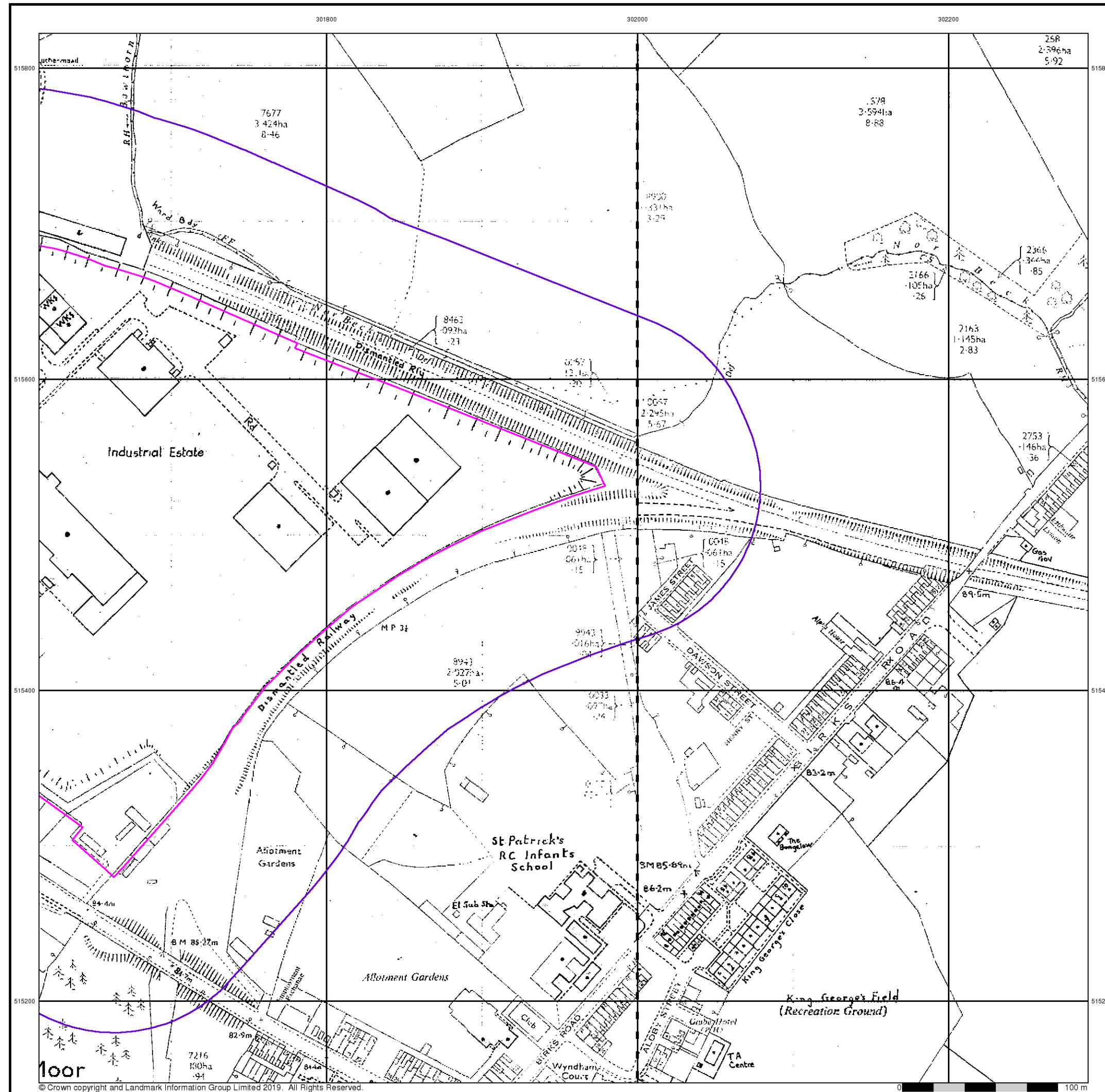
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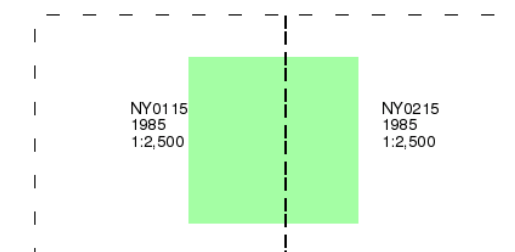
Additional SIMs

Published 1985

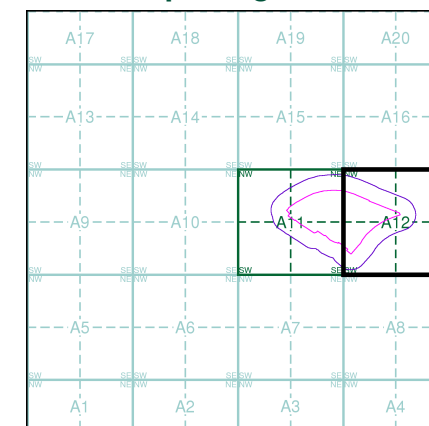
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Map Name(s) and Date(s)



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Order Details

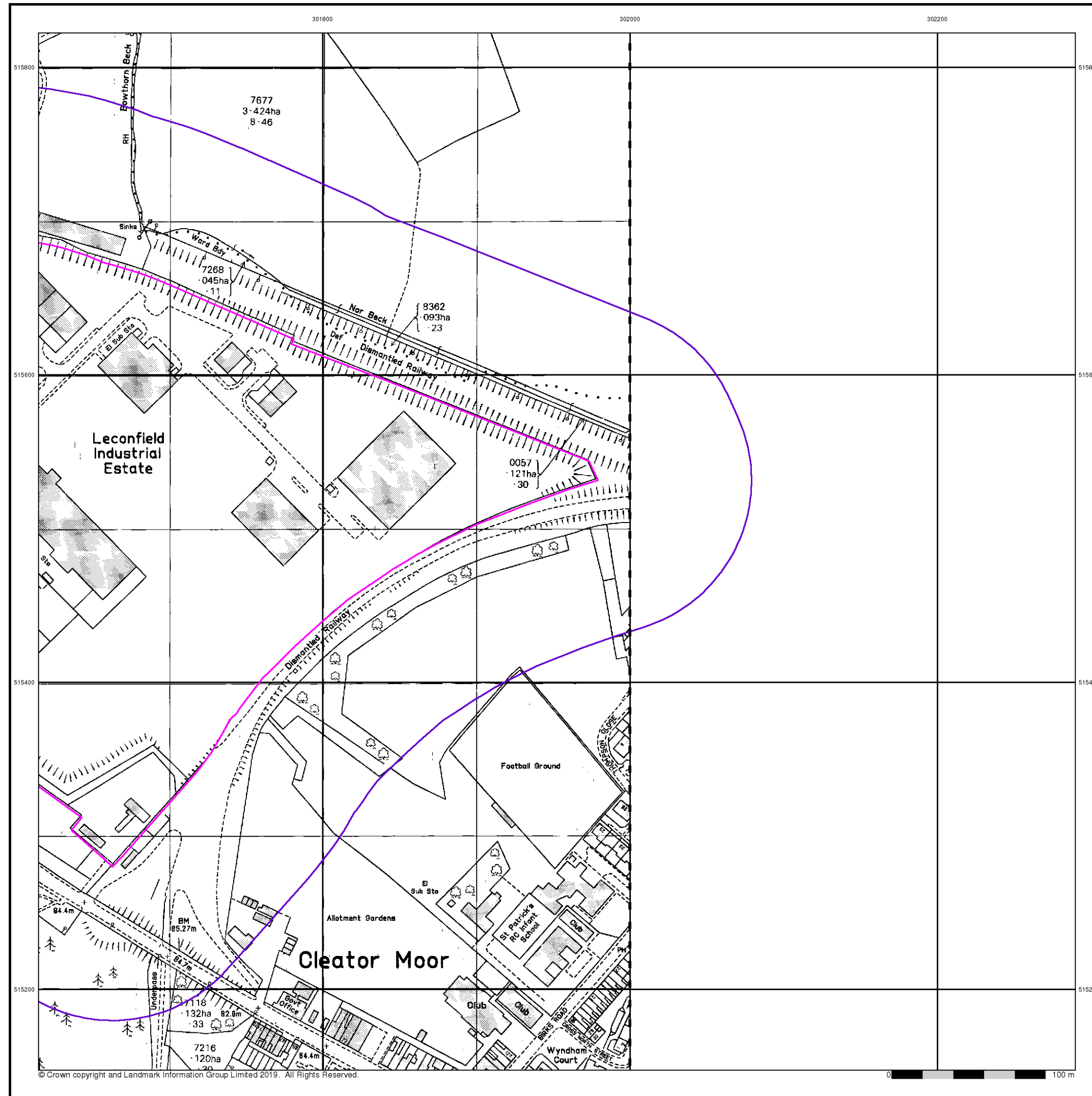
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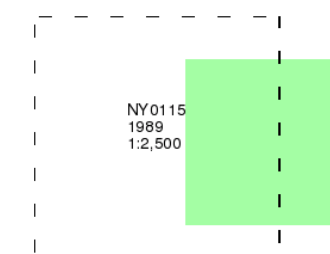
Ordnance Survey Plan

Published 1989

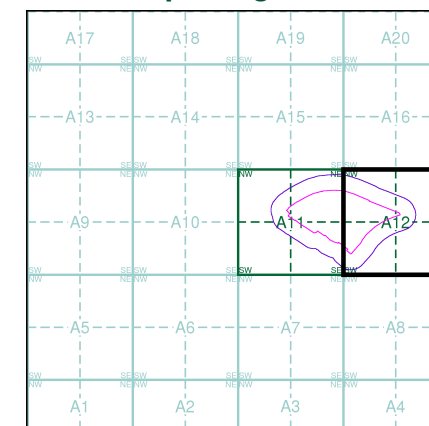
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Site Area (Ha): 15.46
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Site Details

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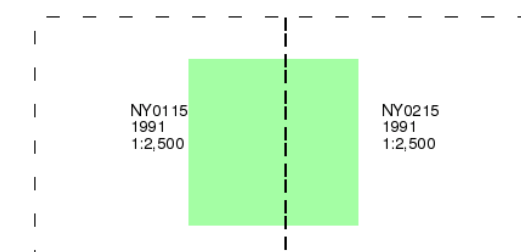
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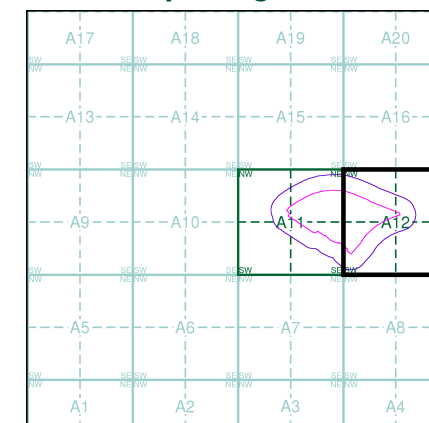


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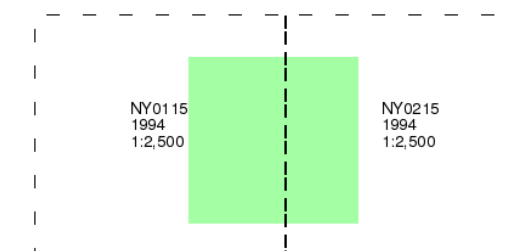
Large-Scale National Grid Data

Published 1994

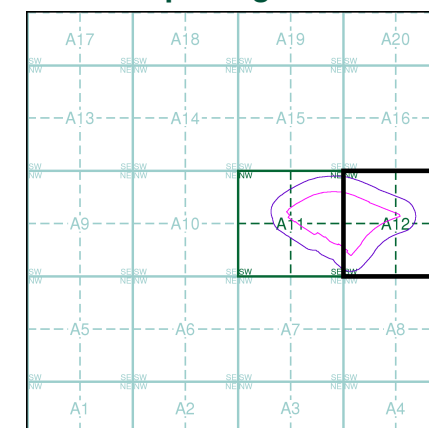
Source map scale - 1:2,500

'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 A12



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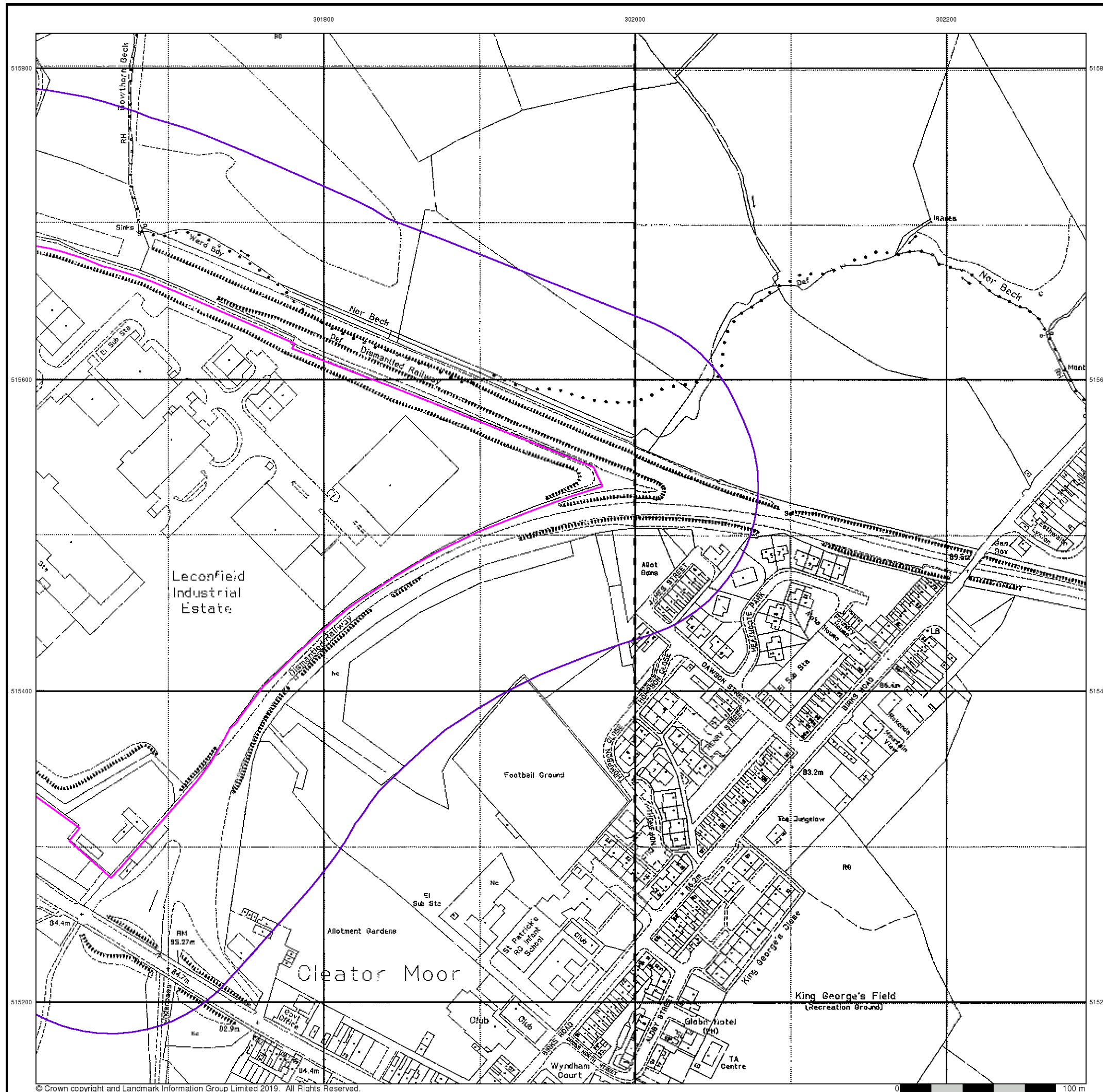
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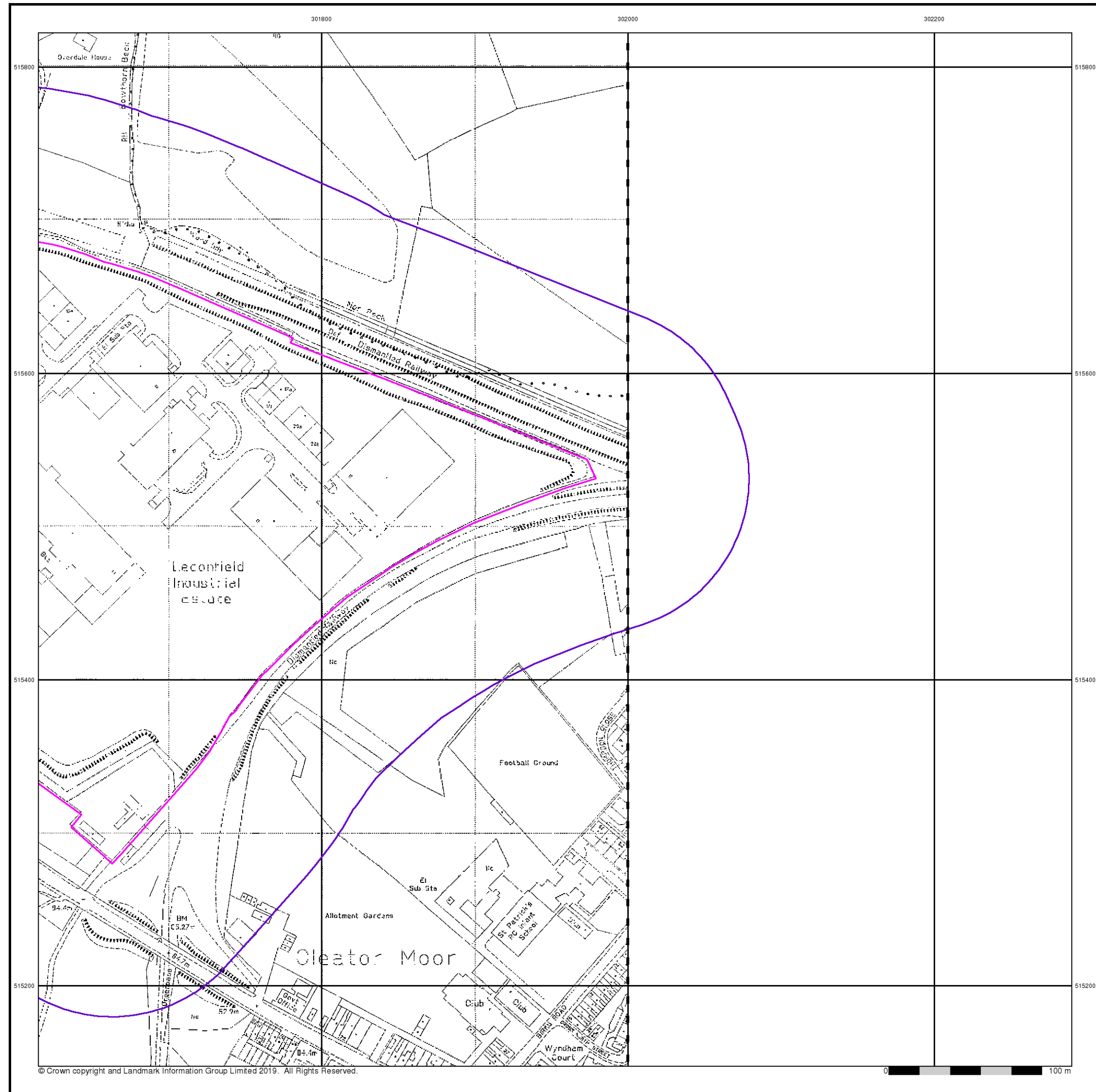
Site Details

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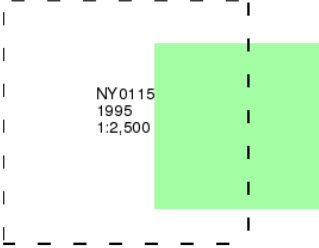
Large-Scale National Grid Data

Published 1995

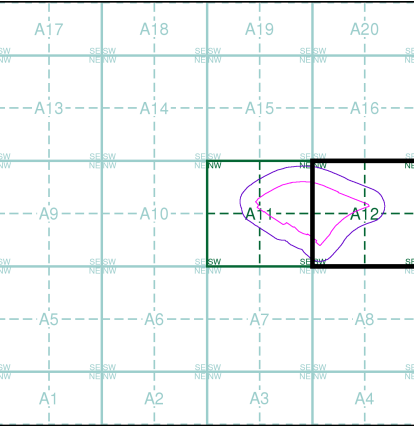
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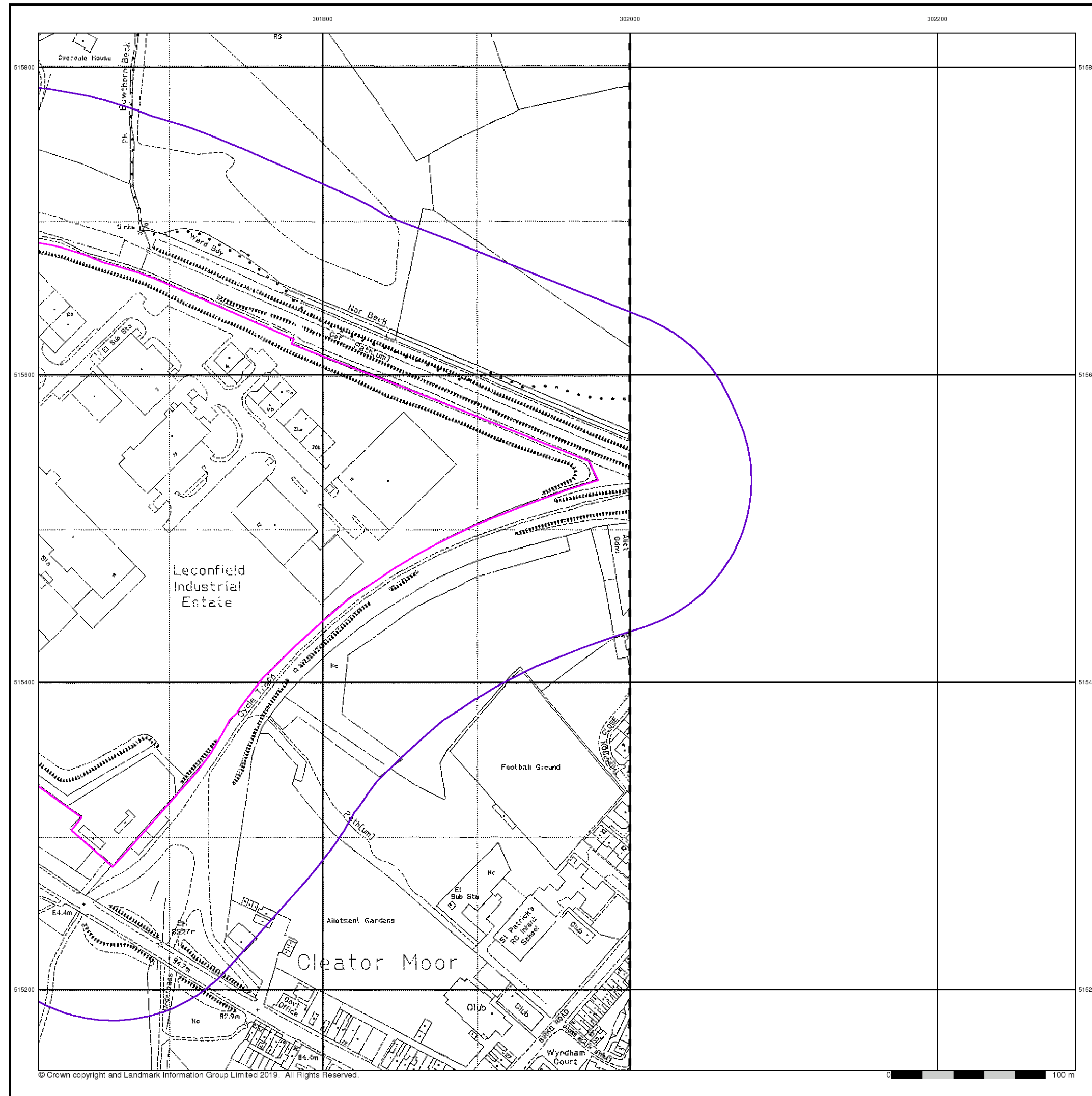
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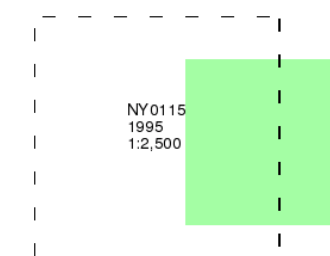
Large-Scale National Grid Data

Published 1995

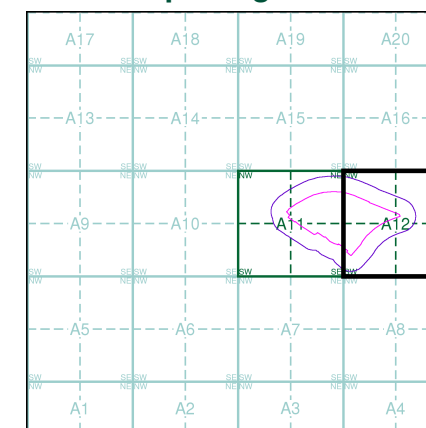
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Map Name(s) and Date(s)



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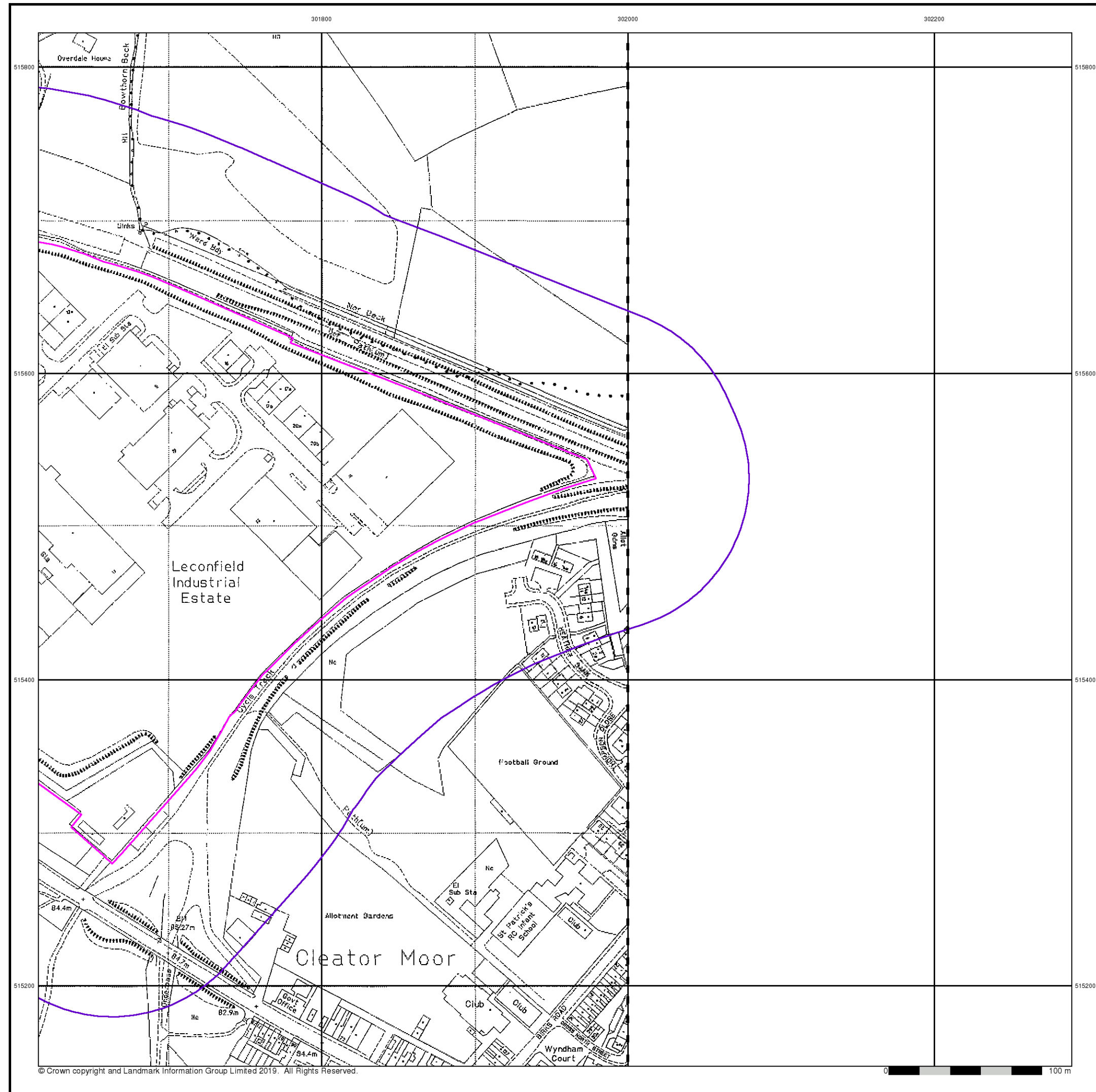
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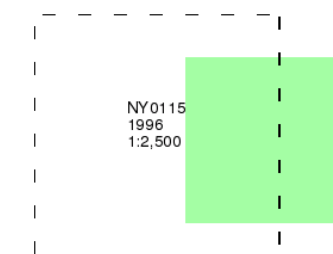
Large-Scale National Grid Data

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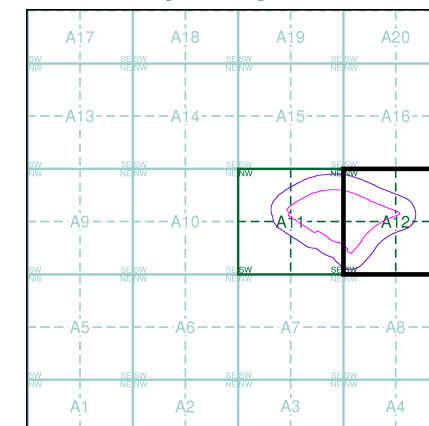
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Historical Map - Segment A12



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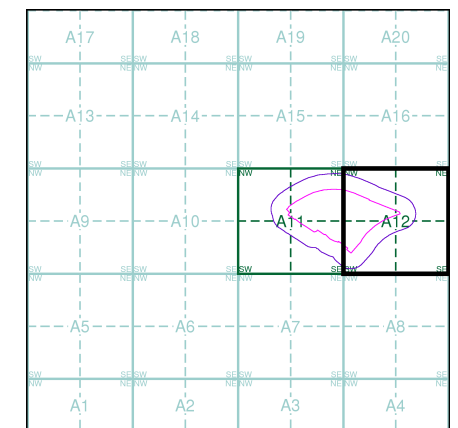


Historical Aerial Photography

Published 2000

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

Historical Aerial Photography - Segment A12



Order Details

Order Number: 224379683_1_1
Customer Ref: A114312
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Slice: A
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Site Details

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APPENDIX D – CIRIA C552 RISK METHODOLOGY

The following tables are derived from CIRIA C552 and have been used to define the risk rating presented in the Qualitative Risk Assessment matrix.

Classification of consequence

Classification	Definition
Severe	Short term (acute) risk to human health likely to result in 'significant harm' as defined by the Environment Protection Act 1990, Part IIA. Short term risk of pollution (note; Water Resources Act contains no scope for considering significant pollution) of sensitive water resource. Catastrophic damage to building/property. A short-term risk to a particular ecosystem, or organism forming part of such ecosystem. (Note the definitions of ecological systems within the Draft Circular on Contaminated Land DETR, 2000).
Medium	Chronic damage to human health ('significant harm', as defined In DETR, 2000). Pollution of sensitive water resources (note; Water Resources Act contains no scope for considering significant pollution). A significant change in a particular ecosystem, or an organism forming part of such an ecosystem. (Note the definitions of ecological systems within the Draft Circular on Contaminated Land DETR, 2000).
Mild	Pollution of non-sensitive water resources. Significant damage to crops, buildings, structures and services ('significant harm', as defined In DETR, 2000). Damage to sensitive buildings/structures/services or the environment.
Minor	Harm, although not necessarily significant harm, which may result in a financial loss, or expenditure to resolve. Non-permanent health effects to human health (easily prevented by means such as personal protective clothing etc). Easily repairable effects of damage to buildings, structures and services.

Classification of probability

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

Matrix of consequence against probability to gain a risk classification

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